



**CITY OF FRANKLIN, VIRGINIA
REQUEST FOR PROPOSAL #2022-04
CDBG ENGINEERING SERVICES**

ISSUE DATE: January 7, 2022

DUE DATE: February 2, 2022

TIME: 3:00 P.M.

RFP#: 2022-04

ISSUING DEPARTMENT: City of Franklin, Virginia
Finance Department
Attn: Tracy Spence, CPA
207 West 2nd Avenue
Franklin, VA 23851

PROCUREMENT CONTACT: Tracy Spence, CPA
Director of Finance
Phone: (757) 562-8535
E-mail: tspence@franklinva.com

The City of Franklin (hereinafter called the “City”) is requesting digital proposals from qualified firms to provide CDBG engineering services for the City’s Laurel Street Community Improvement Grant .

All proposals shall be emailed no later than 3:00PM EST February 2, 2022 to Tracy Spence at tspence@franklinva.com. Hard copies will not be accepted. *It is the Offeror’s sole responsibility to ensure all information; including addendums are complete and delivered on time.* The City reserves the right to reject any and all proposals, to waive informalities, and to negotiate with the successful Offeror(s). If the City closes its office due to inclement weather, scheduled receipt of proposals will be extended to the next business day, same time.

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I. PROJECT DESCRIPTION

The City of Franklin, Virginia has received a Community Development Block Grant (CDBG) from the Virginia Department of Housing and Community Development (DHCD) under Title I of the Housing and Community Development Act of 1974, as amended, to implement a comprehensive community improvement program within a twenty-four (24) month period to improve Phase I of the Laurel Street Community Improvement Grant (CIG) project area as shown in Appendix J: Project Area Map.

Housing rehabilitation activities (e.g., owner-occupied rehabilitation, investor-owned rehabilitation, substantial reconstruction and demolition vacant substandard homes) will be conducted for twenty-nine (29) low- and moderate-income (LMI) households. Infrastructure improvements will also be done, including upgrading and/or improving 2,000 linear feet of sewer laterals to serve a total of forty-seven (47) households, stormwater drainage improvements, side walk replacement/installation, repair/replacement of 1,173 linear feet of curb and gutter, turning radii improvements at the intersection of Bolling Street, milling and paving roadway surfaces to provide a flush joint at the face of gutter, and fire hydrant installation in the *Laurel Street neighborhood of the City of Franklin, VA*.

II. PROJECT TIMEFRAME

The Laurel Street Community Improvement Grant is for a period of approximately two (2) years ending June 30, 2024.

III. DESCRIPTION OF PROPOSED ACTIVITIES

The Laurel Street Community Improvement Grant includes infrastructure improvements including upgrading and/or improving 2,000 linear feet of sewer laterals to serve a total of forty-seven (47) households, stormwater drainage improvements, side walk replacement/installation, repair/replacement of 1,173 linear feet of curb and gutter, turning radii improvements at the intersection of Bolling Street, milling and paving roadway surfaces to provide a flush joint at the face of gutter, and fire hydrant installation in the *Laurel Street neighborhood of the City of Franklin, VA*. Attached as Appendix K part is an estimated project budget by line item.

The drinking water system is in good shape, but the remaining public infrastructure facilities require improvements. Survey results indicate the majority of Oak Street residents experience sewer backups on a routine basis, and both areas complain of sewer odor. Both areas experience adverse flooding conditions due to inadequate stormwater drainage. Streets have been patched numerous times as water and sewer repairs have been made over the years, and the pedestrian facilities are inadequate to meet current ADA standards.

IV. SCOPE OF WORK

- a) **Basic Design Services.** Engineer shall prepare plans and specifications necessary to construct all project activities proposed in section III herein. Said plans and specifications shall comply with all applicable State and Federal rules and regulations and receive all appropriate reviews and approvals required for construction.
- b) **Bidding and Contracting Services.** Engineer shall also assist the *City of Franklin* by preparing the advertisement for bids and coordinating the bidding process to include:
 - i) Distribute bid documents to persons/agencies that request them;
 - ii) Conduct a pre-bid conference;
 - iii) Answer questions and clarifying bid documents through the issuance of addenda to the bid documents;
 - iv) Review all bids to verify compliance with the Instructions To Bidders;
 - v) Prepare a Bid Tabulation Form;
 - vi) Recommend award to the Bidder deemed to be the lowest responsible; and
 - vii) Assist Grantee with placing the Contractor under contract including review and approval of all necessary insurance certificates and bonds.
- c) **Construction Administration Services.** Engineer shall conduct construction administration services to include:
 - i) Conduct a Preconstruction Conference;
 - ii) Review and approve of all shop drawings;
 - iii) Review all Contractor Pay Request and recommend payment;
 - iv) Prepare all construction change orders including recommendation of approval; and
 - v) Resolve Contractor inquiries and questions during construction including interpretation of plans and specifications.
- d) **Inspection Services.**
 - i) Be on site at least weekly (and as may be deemed otherwise necessary) during normal working hours throughout the entire construction period;
 - ii) Maintain a weekly hard-bound report with all pages numbered and all entries in ink. All entries shall be entered on a weekly basis and begin with the date and weather conditions;
 - iii) Maintain a weekly hard-bound report with all pages numbered and all entries in ink. All entries shall be entered on a weekly basis and begin with the date and weather conditions;
 - iv) Advise and consult with *City of Franklin* other interested parties;
 - v) Endeavor to guard *City of Franklin* by the contractor; however, the Inspector does not guarantee the performance of the contractor. Nor is the Inspector responsible for construction means, methods, techniques, sequences or procedures, time of

- performance, programs, or for any safety precautions in connection with the construction work. The Inspector is also not responsible for the contractor's failure to execute the work in accordance with the contract documents; and
- vi) Review requests for monthly and final payments to the contractor and provide information for use in preparation of As-Built (or record) drawings.

V. PROPOSAL FORMAT

- a) **Statement of Qualifications.** All respondents must submit a written Statement of Qualifications (SOQ) to include information about the respondent directly related to each of the Selection Criteria outlined in Section E herein. . In addition, the submittal should contain the following information:

A. A brief summary of personnel the consultants will assign to the project and the qualifications of the firm and those personnel.

B. A list of recent CDBG projects managed.

C. Identification of the specific individual(s) who will perform the duties along with resumes.

All information should be submitted succinctly. Proposals shall not include estimates of costs or staff hours to perform desired services.; and

- b) **Proposal.** Respondents must provide an explanation of how they propose to accomplish the project outcome within the stated timeframe.

VI. EVALUATION CRITERIA

The respondents will be evaluated based on the following criteria:

- a) The Engineer's understanding of the intended project outcome; i.e., what the intended end product is to be and what the project is intended to accomplish;
- b) The Engineer's proposed approach for achieving the outcome within the stated timeframe;
- c) The scope of specific engineer services the Engineer intends to provide including how the Engineer proposes to involve the Grantee in the design and completion process and the Engineer's overall approach to the project;
- d) The Engineer's opinion as to the adequacy of the estimated project costs based on an understanding of the project and services proposed;
- e) Any potential problems the Engineer perceives with the project as proposed;

- f) Professional qualifications and experience of the individuals the Engineer will assign to provide the planning, engineering and inspection services;
- g) Local government experience of key personnel assigned to this project;
- h) Knowledge and familiarity with Virginia Community Development Block Grant procedures and requirements, including those of the Management Team process;
- i) Familiarity with Virginia Small Cities CDBG program procedures and requirements;
- j) Capacity of the firm to perform the planning, engineering and inspection work within the given time limitations, taking into consideration the current and planned workload of the firm;
- k) Names, addresses and telephone numbers of clients for whom the firm has performed projects of a similar type and size within the past 5-10 years; and
- l) The average time frame for completion of past projects similar in type and size, from authorization to the beginning of design and through the start of construction, including review by all appropriate permitting agencies.

The City of Franklin is an Equal Opportunity Employer. Proposals from minority, female-owned, and local firms/individuals are invited. All responding firms/individuals shall comply with Executive Order 11246.

VII. SELECTION PROCEDURE

- A. The City of Franklin intends to select one firm to provide these services using the competitive negotiation procedure defined in Section 2.2-4302.2.3 of the Virginia Public Procurement Act.
 - 1. As previously stated, the Engineer shall make written proposals offering their qualifications and understanding of the project. Proposals shall be specific as to the ability of the individual to perform the requested work and ability to satisfy all evaluation criteria.
 - 2. Following evaluation of the written proposals, the City shall engage in individual discussions with those Engineers deemed fully qualified, responsible, and suitable on the basis of the Evaluation Team's recommendations. Such Engineer shall be encouraged to elaborate on their qualifications, as well as alternative concepts, and to answer questions from Evaluation Team members. Negotiations shall then be conducted with each of the Engineers so selected.

3. After negotiations have been conducted with each Engineer selected, the City shall select the Engineer which, in its opinion, has made the best proposal and provides the best value, and shall award the contract to that Engineer.

VIII. EXTRA WORK

- A. There will be no extra work allowed on this project except when authorized in writing by the City's authorized representative. No one is authorized to give verbal instructions to increase the scope of work and the Engineers may not use verbal instructions as the basis for additional cost. The request for changes in the work shall be made in writing by the Engineer, reviewed by the City, and either approved or denied in writing.
- B. Disputes arising out of claims for extra work or extra cost will be subject to all lawful recourse. However, the City will agree to meet with the Engineer in an effort to resolve claims before legal steps are taken.

IX. CONTRACT

- A. A standard City of Franklin contract will be prepared for signature for the successful Engineer for this project. The contract will be a fixed-fee contract for specified work tasks. Payments to the Engineer will be based on costs incurred and work tasks completed.

X. INSURANCE

- A. The successful Engineer shall maintain Professional Liability Insurance, Workers Compensation, Employer's Liability Insurance, Automobile Liability Insurance, excess Liability Umbrella Form Insurance and/or any other insurance as may be required by the City. The current limits are shown in Appendix C.

APPENDIX A: GENERAL TERMS, CONDITIONS AND INSTRUCTIONS TO BIDDERS AND CONTRACTORS

These General Terms, Conditions and Instructions to Bidders and Contractor (hereinafter referred to as the “General Conditions”) shall apply to all purchases and be incorporated into and be a part of each Solicitation (as defined below) and every Contract (as defined below) awarded by the City of Franklin, a political subdivision of the Commonwealth of Virginia (hereinafter referred to as the “the City”). Bidders, Offerors and Contractors or their authorized representatives are expected to inform themselves fully as to these General Conditions before submitting Bids or Proposals to and/or entering into any Contract with the City: failure to do so will be at the Bidder’s/Contractor’s own risk and except as provided by law, relief cannot be secured on the plea of error.

Subject to all Federal, State and local laws, policies, resolutions, regulations, rules, limitations and legislation, including the City’s Procurement Policies and Procedures, Bids or Proposals on all Solicitations issued by City will bind Bidders or Offerors, as applicable, and Contracts will bind Contractors, to all applicable terms, conditions, instructions, rules and requirements herein set forth unless otherwise SPECIFICALLY set forth by the City in writing in the Solicitation or Contract. All provisions of these General Conditions are material to any contract between the City and a Contractor.

INTRODUCTION

1. VIRGINIA PUBLIC PROCUREMENT ACT AND ETHICS IN PUBLIC CONTRACTING: The Virginia Public Procurement Act of Virginia Code §§ 2.2-4300 et seq. (hereinafter the “VPPA”) is incorporated herein by reference. Nothing in these General Conditions is intended to conflict with the VPPA and in case of any conflict, the VPPA controls. Specifically, the provisions of Article 6 of the VPPA (Virginia Code §§ 2.2-4367 through 2.2-4377) relating to ethics in contracting, shall be applicable to all Solicitations and Contracts solicited or entered into by the City. By submitting their Bids or signing any Contract, all Bidders and Contractors certify that they have not violated any of the provisions of Article 6 of the VPPA, including, but not limited to, that their Bids are made without collusion or fraud and that they have not offered or received any kickbacks or inducements.

2. DEFINITIONS: The definitions of Virginia Code §§ 2.2-4301, 2.2-4302.1 and 2.2-4302.2 are specifically incorporated herein by reference and as used in these General Conditions, whether capitalized or not, any of such defined terms have the same meaning as such terms have under the VPPA: such defined terms include: “Affiliate”, “Best Value”, “Business”, “Competitive Negotiation”, “Competitive Sealed Bidding”, “Construction”, “Construction Management Contract”, “Design-Build Contract”, “Employment Services Organization”, “Goods”, “Informality”, “Job Order Contracting”, “Multiphase Professional Services Contract”, “Nonprofessional Services”, “Potential Bidder or Offeror”, “Professional Services”, “Public

Body”, “Public Contract”, “Responsible Bidder or Offeror”, “Responsive Bidder”, “Reverse Auctioning” and “Services”. Additionally, as used in these General Conditions, the following terms, whether capitalized or not, have the following meanings:

- a. Bid/Proposal: The offer of a Bidder or Offeror to provide specific Goods or Services at specified prices and/or other conditions specified in the Solicitation. The term “Bid” is used throughout these General Conditions and where appropriate includes the term “Proposal” or any modifications or amendments to any Bid or Proposal.
- b. Bidder/Offeror/Vendor: Any individual(s), company, firm, corporation, partnership, or other organization bidding or offering on any Solicitation issued by the City and/or offering to enter into Contracts with the City. The term “Bidder” is used throughout these General Conditions and where appropriate includes the term “Offeror” and/or “Vendor”.
- c. Contract: Any contract to which the City will be a party.
- d. Contractor: Any individual(s), company, firm, corporation, partnership, or other organization to whom an award is made by the City or who enters into any contract to which the City is a party.
- e. City: The City of Franklin, a political subdivision of the Commonwealth of Virginia, including where applicable all agencies and departments of the City.
- f. City Administrator: The City Manager of the City of Franklin and has signatory authority to bind the City to all contracts.
- g. City Attorney: The City Attorney of the City of Franklin.
- h. Purchasing Agent: The Director of Finance is the City’s Purchasing Agent and is responsible for the purchasing activity of the City of Finance.
- i. General Terms, Conditions and Instructions to Bidders and Contractors (also referred to herein as the “General Conditions”): These General Terms, Conditions and Instructions to Bidders and Contractors shall be attached to and made a part of all Solicitations by the City and all Contracts to which the City is party.
- j. His: Any references to “his” shall include his, her, their, or its as appropriate.
- k. Invitation to Bid (also referred to herein as an “IFB”): A request which is made to

prospective Bidders for their quotation on Goods or Services desired by the City. The issuance of an IFB will contain or incorporate by reference the General Conditions and the other specifications and contractual terms and conditions applicable to the procurement.

l. Purchasing Agent: The Purchasing Agent employed by the City and to whom Bidders/Contractors can submit questions relating to any Bid or Contract.

m. Request for Proposal (also referred to herein as a “RFQ”): A request for an offer from prospective Offerors which shall indicate the general terms which are sought to be procured from Offerors. The RFQ will specify the evaluation factors to be used and will contain or incorporate by reference the General Conditions and other applicable contractual terms and conditions, including any unique capabilities or qualifications that will be required of the Contractor.

n. Solicitation: The process of notifying prospective Bidders or Offerors that the City wishes to receive Bids or Proposals on a set of requirements to provide Goods or Services. “Solicitation” includes any notification of the City requirements may consist of public advertising (newspaper, City’s website, or other electronic notification), the mailing of notices of Solicitation, any Invitation for Quotes (“IFQ”), Initiations to Bid (“IFB”), or Requests for Proposal (“RFQ”), the public posting of notices, issuance of an Open Market Procurement (“OMP”), or telephone calls to prospective Bidders or Offerors.

o. State: The Commonwealth of Virginia.

3. AUTHORITY: The Purchasing Agent shall serve as the principal public purchasing official for the City, and shall be responsible for the procurement of goods, services, insurance, and construction in accordance with the City’s Procurement Policies and Procedures. The Purchasing Agent has responsibility and authority for negotiating, placing and when necessary, modifying every Solicitation and purchase order issued by the City. The City Administrator has signatory authority to bind the City to all contracts made lawfully.

No other City officer or employee is authorized to order supplies or Services, enter into purchase negotiations or Contracts, or in any way obligate the City for any indebtedness. Any purchase or contract made which is contrary to such authority shall be of no effect and void and the City shall not be bound thereby.

CONDITIONS OF BIDDING

4. COMPETITION INTENDED: It is the City’s intent to encourage and permit open and competitive bidding in all Solicitations. It shall be the Bidder’s responsibility to advise the City in writing if any language, requirement, specification, etc., or any combination thereof, stifles competition or inadvertently restricts or limits the requirements stated in a Solicitation to a single

source. The City must receive such notification not later than seven (7) business days prior to the deadline set for acceptance of the Bids. In submitting a Bid, the Bidder guarantees that he or she has not been a party with other Bidders to an agreement to bid a fixed or uniform price. Violation of this implied guarantee shall render the Bid of any Bidder involved void.

5. **DISCRIMINATION PROHIBITED:** Pursuant to Virginia Code § 2.2-4310, the City does not discriminate against Bidders, Offerors or Contractors because of race, religion, color, sex, national origin, age, disability, status as a service disabled veteran, or any other basis prohibited by state law relating to discrimination in employment. Whenever solicitations are made, the City shall include businesses selected from a list made available by the Department of Small Business and Supplier Diversity. Pursuant to Virginia Code § 2.2-4343.1, the City does not discriminate against “faith- based organizations”, being a religious organization that is or applies to be a contractor to provide goods or services for programs funded by the block grant provided pursuant to the Personal Responsibility and Work Reconciliation Act of 1996, P.L. 104-193.

6. **CLARIFICATION OF TERMS:** Pursuant to Virginia Code § 2.2-4316, if any Bidder has questions or comments about the specifications or other Solicitation documents, the prospective Bidder should contact the City no later than seven (7) business days prior to the date set for the opening of Bids or receipt of Proposals. Any revisions to the Solicitation will be made only by written addendum issued by

the City. Notifications regarding specifications may not be considered if received in less than seven

(7) business days of the date set for opening of Bids/receipt of Proposals.

7. **MANDATORY USE OF CITY FORM AND TERMS AND CONDITIONS:** Unless otherwise specified in the Solicitation, all Bids must be submitted on the forms provided by the City, including but not limited to, a Cover Sheet or Pricing Schedule, if applicable, properly signed in ink in the proper spaces and submitted in a sealed envelope or package. Unauthorized modification of or additions to any portion of the Solicitation may be cause for rejection of the Bid. However, the City reserves the right to decide, on a case by case basis, in its sole discretion, whether to reject any Bid or Proposal which has been modified. These General Conditions are mandatory provisions of all Solicitations and all Contracts of the City.

8. **LATE BIDS & MODIFICATION OF BIDS:** Any Bid or modification thereto received at the office designated in the Solicitation after the exact time specified for receipt of the Bid is considered a late Bid or modification thereof. The City is not responsible for delays in the delivery of the mail by the U.S. Postal Service, private carriers, or the inter-office mail system. It is the sole responsibility of the Bidder to ensure their Bid reaches City by the designated date and hour. The following rules apply to all Bids submitted to the City:

a. The official time used in the receipt of Bids/Proposals is that time on the automatic time stamp machine in the Finance Department;

- b. Late Bids or modifications thereof will be returned to the Bidder UNOPENED, if Solicitation number, due date and Bidder's return address is shown on the container;
- c. If a Bid is submitted on time, however a modification thereto is submitted after the due date and time, then the City in its sole discretion may choose to consider the original Bid except that the City may not consider such original Bid if the Bid is withdrawn by the Bidder pursuant to Section 9 below; and
- d. If an emergency or unanticipated event or closing interrupts or suspends the City's normal business operations so that Bids cannot be received by the exact time specified in the Solicitation, then the due date/time specified for receipt of Bids will be deemed to be extended to the same time of day specified in the Solicitation on the first workday on which normal City business operations resume.

9. WITHDRAWAL OF BIDS:

- a. Pursuant to Virginia Code § 2.2-4330, a Bidder for a public 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 in the Bid, 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 a 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.

If a Bid contains both clerical and judgment mistakes, a Bidder may withdraw his Bid from consideration if the price bid would have been substantially lower than the other Bids due solely to the clerical mistake, that was an unintentional arithmetic error or an unintentional omission of a quantity of work, labor or material made directly in the compilation of a Bid that shall 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. The Bidder shall give notice in writing to the City of his or her claim of right to withdraw his or her Bid within two

- (2) business days after the conclusion of the Bid opening procedure and shall submit original work papers with such notice.

- b. A Bidder for a Contract other than for public construction may request withdrawal of his or her Bid under the following circumstances:

- i. Bids may be withdrawn on written request from the Bidder received at the address shown in the Solicitation prior to the time of opening.
- ii. Requests for withdrawal of Bids after opening of such Bids but prior to award shall be transmitted to the City, in writing, accompanied by full documentation supporting the request. If

the request is based on a claim of error, documentation must show the basis of the error. Such documentation may take the form of supplier quotations, Bidder work sheets, etc. If Bid bonds were tendered with the Bid, the City may exercise its right of collection.

c. No Bid may be withdrawn under this Section 9 when the result would be the awarding of the Contract on another Bid of the same Bidder or of another Bidder in which the ownership of the withdrawing Bidder is more than five percent (5%).

d. If a Bid is withdrawn under the authority of this Section 9 the lowest remaining Bid shall be deemed to be the low Bid.

e. No Bidder who, is permitted to withdraw a Bid shall, for compensation, supply any material or labor to or perform any subcontract or other work agreement for the person or firm to whom the Contract is awarded or otherwise benefit, directly or indirectly, from the performance of the project for which the withdrawn Bid was submitted.

f. The City shall notify the Bidder in writing within five (5) business days of its decision regarding the Bidder's request to withdraw its Bid. If the City denies the withdrawal of a Bid under the provisions of this Section 9, it shall State in such notice the reasons for its decision and award the Contract to such Bidder at the Bid price, provided such Bidder is a responsible and responsive Bidder. At the same time that the notice is provided, the City shall return all work papers and copies thereof that have been submitted by the Bidder.

g. Under these procedures, a mistake shall be proved only from the original work papers, documents and materials delivered as required herein. The work papers, documents and materials submitted by the bidder shall, at the bidder's request, be considered trade secrets or proprietary information subject to the conditions of subsection F of Virginia Code § 2.2-4342.

10. **ERRORS IN BIDS:** When an error is made in extending total prices, the unit Bid price will govern. Erasures in Bids must be initialed by the Bidder. Carelessness in quoting prices, or otherwise in preparation of the Bid, will not relieve the Bidder. Bidders/Offerors are cautioned to recheck their Bids for possible error. Errors discovered after public opening cannot be corrected and the Bidder will be required to perform if his or her Bid is accepted.

11. **IDENTIFICATION ON BID ENVELOPE:** All Bids, Proposals and requested copies thereof submitted to the City shall be in a separate envelope or package, sealed and identified with the following information clearly marked on the outside of the envelope or package:

- a. Addressed as indicated on page 1 of the solicitation;
- b. Solicitation number;

- c. Title;
- d. Bid due date and time;
- e. Bidder's name and complete mailing address (return address); and
- f. Pursuant to Virginia Code § 2.2-4311.2, the Bidder's identification number issued by the State Corporation Commission, or if the bidder 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 bids or proposal a statement describing why the bidder or offeror is not required to be so authorized.

If a Bid is not addressed with the information as shown above, the Bidder takes the risk that the envelope may be inadvertently opened and the information compromised, which may cause the Bid to be disqualified. Bids may be hand delivered to the designated location in the City's offices. No other correspondence or other Proposals/Bids should be placed in the envelope. Any Bidder or Offeror that fails to provide the information required in (f) above shall not receive an award unless a waiver is specifically granted by the City Administrator.

12. **ACCEPTANCE OF BIDS:** Unless otherwise specified, all formal Bids or Proposals submitted shall be valid for a minimum period of one hundred twenty (120) calendar days following the date established for opening or receipt, respectively, unless extend by mutual agreement of the parties. At the end of the one hundred twenty (120) calendar days the Bid/Proposal may be withdrawn at the written request of the Bidder. Thereafter, unless and until the Proposal is withdrawn, it remains in effect until an award is made or the Solicitation is canceled by the City. The City may cancel any Solicitation at any time by notice of such cancelation to the Bidders.

13. **COMPLETENESS:** To be responsive, a Bid must include all information required by the Solicitation.

14. **CONDITIONAL BIDS:** Conditional Bids are subject to rejection in whole or in part.

15. **RESPONSE TO SOLICITATIONS:** In the event a Bidder cannot submit a Bid on a Solicitation, the Bidder is requested to return the Solicitation cover sheet with an explanation as to why the Bidder is unable to Bid on these requirements, or if there be no cover sheet for the Solicitation a letter to the City explaining the same.

16. **BIDDER INTERESTED IN MORE THAN ONE BID AND COLLUSION:** More than one bid from an individual, firm, partnership, corporation, or association under the same or different name will be rejected. Reasonable grounds for believing that a bidder is interested in more than one bid for the work contemplated will cause rejection of all bids in which the bidder is interested. Any or all bids may be rejected if there is any reason for believing that collusion exists among the bidders. Participants in such collusion may not be considered in future bids for

the same work. Each bidder, as a condition of submitting a bid, shall certify that he is not a party to any collusive action as herein defined. However, a party who has quoted prices on work, materials, or supplies to a Bidder is not thereby disqualified from quoting prices to other Bidders or firms submitting a Bid directly for the work, materials, or supplies.

17. **BID OPENING:** Pursuant to Virginia Code § 2.2-4301, all Bids received in response to an IFB will be opened at the date, time and place specified, and announced publicly, and made available for inspection as provided in Section 21 of these General Conditions. Proposals received in response to an RFQ will be made available for inspection as provided in Section 21 of these General Conditions.

18. **TAX EXEMPTION:** The City is exempt from the payment of any federal excise or any Virginia sales tax. The price bid must be net, exclusive of taxes. Tax exemption certificates will be furnished if requested by the Bidder.

19. **DEBARMENT STATUS:** By submitting their Bids, Bidders certify that they are not currently debarred from submitting Bids on Contracts by the City, nor are they an agent of any person or entity that is currently debarred from submitting Bids or Proposals on Contracts by the City or any agency, public entity/locality or authority of the State.

20. **NO CONTACT POLICY:** No Bidder shall initiate or otherwise have contact related to the Solicitation with any City representative or employee, other than the Purchasing Agent, after the date and time established for receipt of Bids. Any contact initiated by a Bidder with any City representative, other than the Purchasing Agent, concerning this Solicitation is prohibited and may cause the disqualification of the Bidder.

21. **VIRGINIA FREEDOM OF INFORMATION ACT:** As provided under Virginia Code § 2.2-4342, all proceedings, records, Contracts and other public records relating to procurement transactions shall be open to the inspection of any citizen, or any interested person, firm or corporation, in accordance with the Virginia Freedom of Information Act of Virginia Code §§ 2.2-3700 et seq., except:

- a. Cost estimates relating to a proposed procurement transaction prepared by or for the City shall not be open to public inspection;
- b. Any competitive sealed bidding Bidder, upon request, shall be afforded the opportunity to inspect Bid records within a reasonable time after the opening of Bids but prior to award, except in the event that the City decides not to accept any of the Bids and to reopen the Contract. Otherwise, Bid records shall be open to public inspection only after award of the Contract;
- c. Any competitive negotiation Offeror, upon request, shall be afforded the opportunity to inspect Proposal records within a reasonable time after the evaluation and negotiations of Proposals are completed but prior to award except in the event that the City decides not to accept

any of the Proposals and to reopen the Contract. Otherwise, Proposal records shall be open to the public inspection only after award of the Contract;

d. Any inspection of procurement transaction records under this Section 21 shall be subject to reasonable restrictions to ensure the security and integrity of the records;

e. Trade secrets or proprietary information submitted by a Bidder, Offeror or Contractor in connection with a procurement transaction shall not be subject to public disclosure under the Virginia Freedom of Information Act; however, the Bidder, Offeror or Contractor must invoke the protections of this Section 21 prior to or upon submission of the data or other materials, and must identify the data or other materials to be protected and State the reasons why protection is necessary; and

f. Nothing contained in this Section 21 shall be construed to require the City, when procuring by “competitive negotiation” (RFQ), to furnish a Statement of reasons why a particular Proposal was not deemed to be the most advantageous to the City.

22. **CONFLICT OF INTEREST:** Bidder/Contractor certifies by signing any Bid/Contract to/with the City that no conflict of interest exists between Bidder/Contractor and City that interferes with fair competition and no conflict of interest exists between Bidder/Contractor and any other person or organization that constitutes a conflict of interest with respect to the Bid/Contract with the City.

SPECIFICATIONS

23. **OMISSIONS OR DISCREPANCIES:** Any items or parts of any equipment listed in a Solicitation which are not fully described or are omitted from such specification, and which are clearly necessary for the completion of such equipment and its appurtenances, shall be considered a part of such equipment although not directly specified or called for in the specifications. Should a Bidder find a discrepancy or ambiguity in, or an omission from, the Solicitation, including the drawings and/or specifications, he or she shall so notify the City within twenty-four (24) hours of noting the discrepancy, ambiguity or omission and in any event no less than five (5) days prior to the date set for the opening of Bids. If necessary, the City will send a written addendum for clarification to all Bidders no later than three

(3) days before the date set for opening of Bids. Any notification regarding specifications received less than five (5) days prior to the date set for the opening of Bids may or may not be considered by the City in its sole discretion. The Bidder shall abide by and comply with the true intent of the specifications and not take advantage of any unintentional error or omission but shall fully complete every part as the true intent and meaning of the specifications and drawings. Whenever the mention is made of any articles, material or workmanship to be in accordance with laws, ordinances, building codes, underwriter’s codes, A.S.T.M. regulations or similar expressions, the requirements of these laws, ordinances, etc., shall be construed as to the minimum requirements of these specifications.

24. **BRAND NAME OR EQUAL ITEMS:** Pursuant to Virginia Code § 2.2-4315, unless

otherwise provided in the Solicitation, the name of a certain brand, make or manufacturer does not restrict Bidders to the specific brand, make or manufacturer named; it conveys the general style, type, character, and quality of the article desired, and any article which the City in its sole discretion determines to be the equal of that specified, considering quality, workmanship, economy of operation, and suitability for the purpose intended, shall be accepted. The Bidder is responsible to indicate the product clearly and specifically being offered and to provide sufficient descriptive literature, catalog cuts and technical detail to enable the City to determine if the product offered meets the requirements of the Solicitation. This is required even if offering the exact brand, make or manufacturer specified. Normally in competitive sealed bidding, only the information furnished with the Bid will be considered in the evaluation. Failure to furnish adequate data for evaluation purposes may result in declaring a Bid non-responsive. Unless the Bidder clearly indicates in its Bid that the product offered is "equal" product, such Bid will be considered to offer the brand name product referenced in the Solicitation.

25. FORMAL SPECIFICATIONS: When a Solicitation contains a specification which states no substitutes, no deviation therefrom will be permitted, and the Bidder will be required to furnish articles in conformity with that specification.

26. CONDITION OF ITEMS: Unless otherwise specified in the Solicitation, all items shall be new, in first class condition.

AWARD

27. RESPONSIBLE BIDDERS: In determining whether a Bidder is a responsible Bidder as defined herein, at minimum, the following criteria will be considered:

- a. The ability, capacity, and skill of the Bidder to perform the Contract or provide the service required under the Solicitation;
- b. Whether the Bidder can perform the Contract or provide the service promptly, or within the time specified, without delay or interference;
- c. The character, integrity, reputation, judgment, experience, and efficiency of the Bidder;
- d. The quality of performance of previous Contracts or Services;
- e. The previous and existing compliance by the Bidder with laws and ordinances relating to the Contract or Services;
- f. The sufficiency of the financial resources and ability of the Bidder to perform the Contract or provide the service;
- g. The quality, availability and adaptability of the Goods or Services to the particular use required;
- h. The ability of the Bidder to provide future maintenance and service for the use of the subject of the Contract;
- i. The number and scope of the conditions attached to the Bid;

j. Whether the Bidder is in arrears to the City on debt or Contract or is a defaulter on surety to the City or whether the Bidder's City taxes, or assessments are delinquent; and

k. Such other information as may be secured by the City, the Purchasing Agent having a bearing on the decision to award the Contract. If an apparent low Bidder is not awarded a Contract for reasons of nonresponsibility, the City shall so notify that Bidder and shall have recorded the reasons in the Solicitation or Contract file.

28. **AWARD OR REJECTION OF BIDS; WAIVER OF INFORMALITIES:** The City shall award the Contract to the lowest responsive and responsible Bidder complying with all provisions of the IFB, provided the Bid price is reasonable and it is in the best interest of the City to accept it. Awards made in response to a RFQ will be made to the highest qualified Offeror whose Proposal is determined, in writing, to be the most advantageous to the City taking into consideration the evaluation factors set forth in the RFQ. The City reserves the right to award a Contract by individual items, in the aggregate, or in combination thereof, or to reject any or all Bids and to waive any informality in Bids received whenever such rejection or waiver is in the best interest of the City. Award may be made to as many Bidders/Offerors as deemed necessary to fulfill the anticipated requirements of the City. The City also reserves the right to reject the Bid if a Bidder is deemed to be a non-responsible Bidder. Pursuant to Virginia Code § 2.2-4319, an IFB, a RFQ, any other solicitation, or any and all bids or proposals, may be canceled or rejected by the City at any time. The reasons for cancellation or rejection shall be made part of the contract file. The City shall not cancel or reject an IFB, a RFQ, any other solicitation, bid or proposal solely to avoid awarding a contract to a particular responsive and responsible bidder or offeror.

29. **EXCLUSION OF INSURANCE BIDS PROHIBITED:** Pursuant to Virginia Code § 2.2-4320, notwithstanding any other provision of law or these General Conditions, no insurer licensed to transact the business of insurance in the State or approved to issue surplus lines insurance in the State shall be excluded from presenting an insurance bid proposal to the City in response to a RFQ or an IFB; excepting that the City may debar a prospective insurer pursuant to its Debarment Policy, see Chapter 2 of the City's Procurement Policies and Procedures.

30. **ANNOUNCEMENT OF AWARD:** Upon the award or announcement of the decision to award a Contract as a result of this Solicitation, the City will publicly post such notice on eVa: <https://eva.virginia.gov/index.html>.

31. **QUALIFICATIONS OF BIDDERS OR OFFERORS:** The City may make such reasonable investigations as deemed proper and necessary to determine the ability of the Bidder to perform the work/furnish the item(s) and the Bidder shall furnish to the City all such information and data for this purpose as may be requested. The City reserves the right to inspect Bidder's physical facilities prior to award to satisfy questions regarding the Bidder's capabilities. The City further reserves the right to reject any Bid or Proposal if the evidence submitted by or investigations of such Bidder fails to satisfy the City that such Bidder is properly qualified to

carry out the obligations of the Contract and to complete the work/furnish the item(s) contemplated therein.

32. TIE BIDS AND PREFERENCE FOR VIRGINIA PRODUCTS WITH RECYCLED CONTENT AND FOR VIRGINIA FIRMS:

a. Pursuant to Virginia Code § 2.2-4328, in the case of a tie bid on an IFB only, the City may give preference to Goods, Services and construction produced in the City of Franklin or provided by persons, firms or corporations having principal places of business in the City of Franklin. If such choice is not available, preference shall then be given to Goods produced in Virginia, or for goods, services or construction provided by Virginia persons, firms, corporations, pursuant Virginia Code § 2.2-4324. If no City or State choice is available, the tie shall be decided publicly by lot. The decision by the City to make award to one or more such Bidders shall be final.

b. Whenever the lowest responsive and responsible bidder is a resident of any other state and such state under its laws allows a resident contractor of that state a percentage preference, a like preference shall be allowed to the lowest responsive and responsible bidder who is a resident of Virginia and is the next lowest bidder. If the lowest responsive and responsible bidder is a resident of any other state and such state under its laws allows a resident contractor of that state a price-matching preference, a like preference shall be allowed to responsive and responsible bidders who are residents of Virginia. If the lowest bidder is a resident contractor of a state with an absolute preference, the bid shall not be considered. The Department of General Services shall post and maintain an updated list on its website of all states with an absolute preference for their resident contractors and those states that allow their resident contractors a percentage preference, including the respective percentage amounts. For purposes of compliance with this Section 32, the City may rely upon the accuracy of the information posted on this website.

c. Notwithstanding the provisions of subsections a and b, in the case of a tie bid in instances where goods are being offered, and existing price preferences have already been taken into account, preference shall be given to the bidder whose goods contain the greatest amount of recycled content.

d. For the purposes of this Section 32, a Virginia person, firm or corporation shall be deemed to be a resident of Virginia if such person, firm or corporation has been organized pursuant to Virginia law or maintains a principal place of business within Virginia.

33. NEGOTIATION WITH LOWEST RESPONSIBLE BIDDER: Pursuant to Virginia Code § 2.2- 4318, unless cancelled or rejected, a responsive Bid from the lowest responsible Bidder shall be accepted as submitted, except that if the Bid from the lowest responsible Bidder exceeds available funds, the City may negotiate with the apparent low Bidder to obtain a Contract price within available funds. However, the negotiation may be undertaken only under conditions and procedures described in writing and approved by the City prior to issuance of the IFB and summarized therein.

CONTRACT PROVISIONS

A. Anti-Discrimination:

By submitting bids or proposals, bidders, offerors or contractors certify to City of Franklin (the "City") that they will conform to the provisions of the federal Civil Rights Act of 1964, as amended, the Virginia Fair Employment Act of 1975, as amended, where applicable, the Virginians With Disabilities Act, the Americans With Disabilities Act and Section 2.2-4311 of the Virginia Public Procurement Act, which provides:

1. During the performance of this contract, the contractor agrees as follows:

a. The contractor shall not discriminate against any employee or applicant for employment because of race, religion, color, sex, national origin, political affiliation, veteran status, age, disability, or other basis prohibited by state law relating to discrimination in employment, except where there 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 of this nondiscrimination clause.

b. The contractor, in all solicitations or advertisements for employees placed by or on behalf of the contractor, shall state that such contractor is an equal opportunity employer.

c. 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.

2. The contractor shall include the provisions of the foregoing paragraphs a, b and c in every subcontract or purchase order of over \$10,000, so that the provisions will be binding upon each subcontractor or vendor.

3. Pursuant to Section 2.2-4343.1 of the Code of Virginia of 1950, as amended, in all invitations to bid, requests for proposals, contracts, and purchase orders, City of Franklin does not discriminate against faith-based organizations. "Faith-based Organization" means a religious organization that is or applies to be a contractor to provide goods or services for programs funded by the block grant provided pursuant to the Personal Responsibility and Work Opportunity Reconciliation Act of 1996, P.L. 104-193.

B. Ethics in Public Contracting:

By submitting a bid or proposal, bidders, offerors or contractors certify that their bids or proposals are made in full compliance with the Virginia Conflicts of Interest Act and without collusion or fraud and that they have not offered or received any kickbacks or inducements from

any other bidder or offeror, supplier, manufacturer or subcontractor in connection with their bid or proposal and that they have not conferred on any public employee having official responsibility for this procurement transaction any payment, loan subscription, advance, deposit of money, services or anything of more than nominal value, present or promised, unless consideration of substantially equal or greater value was exchanged.

C. Immigration Reform and Control Act of 1986:

By submitting a bid or proposal, bidders, offerors or contractors certify that they do not and will not, during the performance of this contract, employ illegal alien workers or otherwise violate the provisions of the federal Immigration Reform and Control Act of 1986.

D. Policy on Drug and Alcohol Abuse:

City of Franklin has adopted a Policy on Drug and Alcohol Abuse. By submitting a bid or proposal, bidders, offerors or contractors certify full compliance with this policy. A copy of the policy is available upon request. Further, in every contract over \$10,000 the following provisions apply:

During the performance of this contract, contractor agrees to (i) provide a drug-free workplace for the contractor's employees; (ii) 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; (iii) state in all solicitations or advertisements for employees placed by or on behalf of the contractor that the contractor maintains a drug-free workplace; and (iv) include the provisions of the foregoing clauses in every subcontract or purchase order of over \$10,000, so that the provisions will be binding upon each subcontractor or vendor.

For the purposes of this section, "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.

E. Taxes:

City of Franklin (federal I.D. #54-6001284) is exempt from federal, state and local taxes. Taxes included on invoices will be deducted from the payment amount. Tax-exempt forms will be completed for a vendor upon request.

F. Delivery:

All costs and other charges associated with the delivery of a good or non-professional service shall be paid as indicated in the accepted bid or proposal. The City reserves the right to cancel all or any part of a contract without obligation if delivery is not made within the time period specified in the bid or proposal document or if the quantity or quality of products or non-professional services delivered is inadequate.

G. Required Signature:

Prior to executing any contract, the City may request documentation of the signer's authority.

H. Qualifications of Bidders, Offerors or Contractors:

The bidder, offeror, or contractor represents and warrants that it has the requisite experience, skills, capabilities, and manpower to perform the duties required by the contract in a good and workmanlike fashion and that it is authorized to do business in Virginia and has all necessary licenses required by law. The City of Franklin may make such reasonable investigations as deemed proper and necessary to determine the ability of a bidder, offeror or contractor to perform the work or supply the goods. The bidder, offeror or contractor shall furnish to the City all such information and data for this purpose as may be requested. The City reserves the right to inspect the bidder's, offeror's, or contractor's physical facilities prior to award to satisfy questions regarding the bidder's or offeror's capabilities. Further, the City reserves the right to reject any bid or proposal if the evidence submitted by, or investigations of, such bidder or offeror fails to satisfy the City that such bidder or offeror is properly qualified to carry out the obligations of the contract and to complete the work or supply the goods.

I. Changes to the Contract:

No fixed price contract may be increased by more than twenty-five (25) percent of the amount of the contract or \$50,000, whichever is greater. Changes can be made to the contract only by mutual agreement of the parties evidenced by a signed writing

J. Payment Terms:

All approved invoices will be paid within forty-five (45) days of receipt.

K. Default:

In case of default by the contractor for failure to deliver or perform in accordance with the contract's specifications or terms and conditions, the City may procure the articles or services from other sources and hold the defaulting contractor responsible for any resulting additional purchase and administrative costs. The City will normally repurchase from the next low bidder or purchase competitively by re-solicitation. If the repurchase results in increased costs to the City, a letter will be sent to the defaulted contractor requiring payment for additional costs. When repayment is requested, the contractor will be removed from future bidding until the repayment has occurred. The contractor shall not be liable for any excess cost if the failure to perform arises out of any act of war, order of legal authority, strikes, act of God, or other unavoidable causes not attributed to their fault or negligence. Failure of a contractor's source to deliver is generally not considered to be an unavoidable cause. The burden of proof rests with the contractor.

L. Assignment:

The contract may not be assigned, sublet, or transferred without the written consent of the City of Franklin.

M. Hold Harmless:

The contractor and all its subcontractors shall bear all loss, expense (including reasonable attorney's fees) and damage in connection with, and shall indemnify the City of Franklin, its City Council members, officers, employees and agents against and save them harmless from all claims, demands, and judgments made or recovered against them because of bodily injuries, including death at any time resulting there from, and/or because of damage to property, from any cause whatsoever, arising out of, incidental to, or in connection with the contract. Compliance by the contractor with the insurance provisions hereof shall not relieve the contractor from liability under this provision.

N. Audit:

The Contractor hereby agrees to retain all books, records, and other documents related to this Agreement for five (5) years after final payment or after all other pending matters are closed, whichever is longer. The City and its authorized agents, state auditors, the grantor of the funds to the City, the Comptroller of Virginia or of the United States, or any of their duly authorized representatives shall have access to any books, documents, papers and records of the Contractor which are directly pertinent to the Agreement for the purpose of making audits, examinations, excerpts or transcriptions.

O. Ownership of Documents:

Any reports, studies, photographs, negatives, or other documents prepared by the contractor in the performance of its obligations under this contract shall be remitted to the City upon completion, termination or cancellation of the contract. The Contractor shall not use, willingly allow or cause to have such materials used for any purpose other than performance of the contractor's obligations under this Agreement without the prior written consent of the City. The City shall own the intellectual property rights to all materials produced under this Agreement.

P. Payment and Performance Bond:

If required by law, the contractor shall furnish to the City performance and payment bonds in the amount of the Contract Sum, regardless of its amount, pursuant to Sections 2.2-4336 and 2.2-4337 of the Code of Virginia, 1950, as amended (the "Code") and shall otherwise fully comply with the requirements of such sections of the Code.

Q. Required Payment to Subcontractors:

Pursuant to Section 2.2-4354 of the Code, the contractor covenants and agrees to:

1. within seven (7) days after receipt of any amounts paid to the contractor under the Agreement, (i) pay any subcontractor for its proportionate share of the total payment received from the City attributable to the Services under the contract performed by such subcontractor, or (ii) notify the City and the subcontractor, in writing, of its intention to withhold all or a part of the subcontractor's payment and the reason therefor;
2. provide its federal employer identification number or social security number, as applicable, before any payment is made to the Contractor under the contract; and
3. pay interest at the legal rate or such other rate as may be agreed to in writing by the subcontractor and the contractor on all amounts owed by the contractor that remain unpaid after seven (7) days following receipt by the contractor of payment from the City for services performed by the subcontractor under the contract, except for amounts withheld pursuant to subparagraph 12, a above.
4. include in its contracts with any and all subcontractors the requirements of a, b, and, c above.

R. Liability Coverage:

The contractor shall take out and maintain during the life of the Agreement such bodily injury, liability and property damage liability insurance as shall protect it and the City from claims for damages for personal injury, including death, as well as from claims for property damage, which may arise from its activities under this contract.

S. Loss or Damage in Transit:

Delivery by the contractor to a common carrier does not constitute delivery to the City. Any claim for loss or damage incurred during delivery shall be between the contractor and the carrier. The City accepts title only when goods are received regardless of the F.O.B. point. The City will note all apparent damages in transit on the freight bill and notify the contractor. Discovery of concealed damages or loss will be reported by the City to the carrier and the contractor within seven days of receipt and prior to removal from the point of delivery if possible. the contractor shall make immediate replacement of the damaged or lost merchandise or be in default of this contract. It shall be the contractor's responsibility to file a claim against the carrier. If damage is to a small quantity, with the approval of the City, the contractor may deduct the amount of damage or loss from his or her invoice to the City in lieu of replacement.

T. No Waiver:

Any failure of the City to demand rigid adherence to one or more of the terms and provisions of the contract, including these General Terms and Conditions, on one or more

occasions, shall not be construed as a waiver nor deprive the City of the right to insist upon strict compliance with the terms of the contract. Any waiver of a term of the contract, in whole or in part, must be in writing and signed by the party granting the waiver to be effective.

U. Termination:

The City may terminate the contract for its convenience and any or no cause at any time upon written notice to the contractor. the contractor shall not be paid for any service rendered or expense incurred after receipt of such notice except such fees and expenses incurred prior to the effective date of termination that are necessary for curtailment of the contractor's services under the contract.

V. Choice of Law:

To ensure uniformity of the enforcement of the contract, and irrespective of the fact that either of the parties now is, or may become, a resident of a different state, this contract is made and is intended to be performed in the Commonwealth of Virginia, and shall be governed by and construed in accordance with the laws of that state without regard to principles of conflicts of law.

W. Severability:

If any provision of the contract is held to be illegal, invalid, or unenforceable, or is found to be against public policy for any reasons, such provision shall be fully severable and the contract shall be construed and enforced as if such illegal, invalid, or unenforceable provision had never been part of the contract, and the remaining provisions of the contract shall remain in full force and effect and shall not be affected by the illegal, invalid, or unenforceable provision, or by its severance from the contract.

X. Contractual Claims Procedure:

1. Contractual claims or disputes by the contractor, whether for money or other relief, except for claims or disputes exempted by law from the procedure set forth herein, shall be submitted in writing no later than sixty (60) days after final payment; provided, however, that the contractor shall give the City written notice of its intention to file a claim or dispute within fifteen (15) days after the occurrence upon which the claim or dispute shall be based. Any written notice of the contractor's intention to file such a claim or dispute need not detail the amount of the claim, but shall state the facts and/or issues relating to the claim in sufficient detail to identify the claim, together with its character and scope. Whether or not the contractor files such written notice, the contractor shall proceed with the services as directed. If the contractor fails to make its claim or dispute, or fails to give notice of its intention to do so as provided herein, then such claim or dispute shall be deemed forfeited.

2. The City, upon receipt of a detailed claim, may at any time render its decision and shall

render such decision within one hundred twenty (120) days of final payment. Each such decision rendered shall be forwarded to the contractor by written notice.

3. If the contractor disagrees with the decision of the City concerning any pending claim, the contractor shall promptly notify the City by written notice that the contractor is proceeding with the services under protest. Any claim not resolved whether by failure of the contractor to accept the decision of the City or under a written notice of the contractor's intention to file a claim or a detailed claim not acted upon by the governing body of the City, shall be specifically exempt by the contractor from payment request, whether progress or final. Pendency of claims shall not delay payment of amounts agreed due in the final payment.

4. The decision on contractual claims by the governing body of the City shall be final and conclusive unless the contractor appeals within six months of the date of the final decision on the claim by instituting legal action in the appropriate circuit court.

Y. Subject to Annual Appropriation:

The contract is subject to annual appropriation by the City Council of the City of Franklin, Virginia. Neither the contract nor any amount due or to become due under the contract shall be deemed to constitute a debt or pledge of the faith and credit of the Commonwealth of Virginia or any political subdivision thereof, including the City. Neither the Commonwealth of Virginia nor any political subdivision thereof, including the City, shall be obligated to pay any amount due or to become due under this contract except from funds annually appropriated by the City Council of the City of Franklin for such purpose.

In the event of non-appropriation of funds for the items under this contract, the City may terminate this contract as to the services for which funds have not been appropriated. Written notice will be provided to the contractor as soon as possible after such action is taken.

Z. Forum Selection:

The parties hereby submit to the personal jurisdiction and venue of the Circuit Court of County of Southampton, Virginia, and the General District Court of City of Franklin, Virginia, for resolution of any and all claims, causes of action or disputes arising out of or related to this Agreement. The parties further agree that any claims, causes of action or disputes arising out of, relating to or concerning this contract shall have jurisdiction and venue in the Circuit Court of County of Southampton, Virginia, and/or the General District Court of City of Franklin, Virginia, and shall be brought only in such courts.

Appendix A: General Conditions & Instructions

We understand the General Conditions & Instructions of these specifications and will comply in full if awarded this contract.

Name & Title

Signature

Date

RETURN THIS PAGE

Appendix B: Insurance Checklist

Items marked “X” are required to be provided if award is made to your firm.

Required	Coverage Required	Limits of Liability (Denotes minimums)
X	Worker's Compensation and Employers' Liability; Admitted in Virginia Employers' Liability All States Endorsement Voluntary Compensation Endorsement Best's Guide Rating-A-VIII or better, or its equivalent	Statutory Limits of the Commonwealth of VA Yes \$100,000/\$500,000/\$100,000 Statutory
X	Commercial General Liability General Aggregate Products/Completed Operations Personal and Advertising Injury Fire Legal Liability Best's Guide Rating-A-VIII or better, or its equivalent	\$1,000,000 Each Occurrence \$2,000,000 \$2,000,000 \$1,000,000 \$50,000 Per Occurrence
X	Automobile Liability Owned, Hired, Borrowed & Non-owned Motor Carrier Act End Best's Guide Rating-A-VIII or better, or its equivalent	\$1,000,000 Combined Single Limit Bodily Injury and Property Damage Each Occurrence
X	Prof. Errors and Omissions Best's Guide Rating-A-VIII or better, or its equivalent	\$1,000,000 Limit Ea. Occurrence
	Garage Liability	\$1,000,000 CSL Ea. Occurrence
	Garage Keeper's Legal Liability Best's Guide Rating-A-VIII or better, or its equivalent	Maximum Value of One Vehicle Maximum Value of All Vehicles Contractor
X	Umbrella Liability Best's Guide Rating-A-VIII or better, or its equivalent.	\$1,000,000
	Other Insurance:	
X	"City Council 207 W. 2 nd Avenue Franklin VA 23851" named as an additional insured on Auto and General Liability Policies. (This coverage is primary to all other coverage the City may possess and must be shown on the certificate.)	
X	30-day written cancellation notice required, 15-day cancellation notice required for non-payment to , owner– Ref. Code of Virginia Section 38.2-231. Also, the words “endeavor to” and “failure to mail such notice” clause shall be removed from the cancellation notice.	
X	The Certificate must state Bid/RFP No. and Bid/RFP Title.	
X	Contractor shall submit Certificate of Insurance within five business days from notification of award.	

We understand the Insurance Requirements of these specifications and will comply in full if awarded this contract.

Name & Title

Signature

Date

RETURN THIS PAGE

Appendix C: Non-Collusion Statement

The party making the foregoing quote hereby certifies that such quote is genuine and not collusive or sham; that said Offeror has not colluded, conspired, connived or agreed, directly or indirectly, with any Bidder/Offeror or person, to put in a sham bid or to refrain from bidding, and has not in any manner, directly or indirectly, sought by agreement or collusion, or communication or conference, with any person to fix the bid price or affiant or of any Offeror, or to fix any overhead, profit or cost element of said bid price, or of that of any other Offeror, or to secure any advantage against the Owner or any person interested in the proposed contract; and that all statements in said proposal or bid are true.

By signing this quote, the undersigned certifies that this person/firm/corporation is not currently barred from bidding on contracts by any agent of City of the Commonwealth of Virginia. Offeror also certifies by signing this quote that no conflict of interest exists between Contractor and the Owner that interferes with fair competition and no conflict of interest exists between Contractor and another person or organization that constitutes a conflict of interest with respect to the contract with the Owner. Undersigned Offeror hereby certifies that he/she has carefully examined all conditions and specifications of this Request for Proposal and hereby submits this proposal pursuant to such instructions and specifications, without exception.

Name & Title

Signature

Date

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Appendix D: Offeror Data Sheet

The following information is required as part of your response to this solicitation. Failure to complete and provide this sheet may result in determining your proposal to be not acceptable.

1. Qualification: The Offeror must have the capability and capacity to satisfy all the contractual requirements.

2. Offeror's Primary Contact:

Name: _____ E-mail: _____ Phone: _____

Address: _____

3. Years in Business: Indicate the length of time you have been in business providing this type of goods and service: _____ Years

4. SCC # _____

5. Have you or any representative within your organization ever been debarred from submitting bids/proposals on contracts by City? _____

6. Have you or any representative within your organization ever been debarred from submitting bids/proposals on contracts by an agency, public entity/locality or authority of the Commonwealth of Virginia? _____

7. Indicate three (3) current or recent accounts, either commercial or governmental, that your company is servicing, has serviced, or has provided similar services.

A. Company: _____

Contact: _____

Phone: () _____

Project: _____

Dates of Service: _____ \$Value: _____

B. Company: _____

Contact: _____

Phone: () _____

Project: _____

Dates of Service: _____ \$Value: _____

C. Company: _____

Contact: _____

Phone: () _____

Project: _____

Dates of Service: _____ \$Value: _____

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Appendix E: Offeror Statement

Undersigned Offeror hereby certifies that he/she has carefully examined all conditions and specifications of this solicitation and hereby submits this proposal pursuant to such instructions and instructions.

Print Name & Title of Authorized Person Submitting Proposal

Signature of Authorized Person Submitting Proposal

Date

SUBSCRIBED AND SWORN to before me by the above named

_____ on the _____ day of _____, 2021

Notary Public in and for the State of _____

My commission expires: _____

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Appendix F: SCC Form

The Bidder/Offeror/Contractor:

_____ is a corporation or other business entity with the following SCC identification number:

OR

_____ is not a corporation, limited liability company, limited partnership, registered limited liability partnership, or business trust

OR

_____ is an out of state business entity that does not regularly and continuously maintain as part of its ordinary and customary business any employees, agents, offices, facilities, or inventories in Virginia (not counting any employees or agents who merely solicit orders that require acceptance outside Virginia before they become contracts, and not counting any incidental presence of the Offeror in Virginia that is needed in order to assemble, maintain, and repair goods in accordance with the contract by which such goods were sold and shipped into Virginia from Offeror's out of state location)

OR

_____ is an out of state business entity that is including with this proposal an opinion of legal counsel which accurately and completely discloses the undersigned Offeror's contracts with Virginia and describes why those contracts do not constitute the transaction of business in Virginia within the meaning of §13.1-757 or other similar provisions in Titles 13.1 or 50 of the Code of Virginia.

Please check the following if you have not completed any of the foregoing options but currently have pending before the SCC an application for authority to transact businesses in the Commonwealth of Virginia and wish to be considered for a waiver to allow you to submit the SCC identification number once issued (City reserves the right to determine in its sole discretion whether to allow such waiver) _____

Name & Title

Signature

Date

RETURN THIS PAGE

Appendix G: Offeror Question Form

Questions shall be submitted by 5:00PM January 26, 2022. Questions received beyond this date may not be answered.

Attn: Tracy Spence
Via E-mail: tspence@franklinva.com
Project: RFP#2022-04

Offerors are required to utilize this form for questions. You may submit multiple forms.
Note on bottom of page the number of pages pertaining to your question/s.

RFP Reference Paragraph or Page #	Question

Number of pages submitted with this request: _____

Appendix G: Offeror Question Form

Name & Title

Signature

Date

RETURN THIS PAGE

Appendix H: Proprietary Information

Ownership of all data, materials, and documentation originated and prepared for the Owner pursuant to the Request for Proposal shall belong exclusively to the Owner and be subject to public inspection in accordance with the Virginia Freedom of Information Act. Trade secrets or proprietary information submitted by an Offeror shall not be subject to public disclosure under the Virginia Freedom of Information Act, however, the Offeror must invoke the protections of Section 2.2-4342F of the Code of Virginia, in writing, either before or at the time the data or other material is submitted. The written notice must specifically identify the data or materials to be protected and state the reasons why protection is necessary. The proprietary or trade secret material submitted must be identified by some distinct method such as highlighting or underlining and must indicate only the specific words, figures, paragraphs that constitute trade secret or proprietary information.

NOTICE OF PROPRIETARY INFORMATION Confidential References Protection in Accordance with the Code of Virginia, Section 2.2-4342F

Section Title	Page No.	Reason(s) for Withholding from Disclosure

INSTRUCTIONS: Identify the data or other materials to be protected and state the reasons by using the codes listed below. Indicate specific words, figures, or paragraphs that constitute trade secrets or proprietary materials.

- A. This page contains information relating to “trade secrets” and “proprietary information” including processes. Operations, style or work, or apparatus, identify confidential statistical data, amount or source of any income of any person (or) partnership. “See Virginia Public Procurement Act. Section 2.2-4342F. Unauthorized disclosure of such information would violate the Trade Secrets Act 18 U.S.C. 1905.
- B. This page contains proprietary information including confidential, commercial or financial information which was provided to the Government on a voluntary basis is of the type that would not customarily be released to the public. See Virginia Public Procurement Act, Section 2.2-4342F; U.S.C. 552 (b) (4); 12 C.F.R. 309.5 (c) (4).
- C. This page contains proprietary information including confidential, commercial or financial information. This disclosure of such information would cause substantial harm to competitive position and impair the Government’s ability to obtain necessary

information from contractors in the future. 5 U.S.C. See Virginia Public Procurement Act.
Section 2.2-4342F: 522 (b) (4); 12 C.F.R 309.5 (c) (4).

Name & Title

Signature

Date

RETURN THIS PAGE

Appendix I: CIG Required Attachment

ATTACHMENT TO ALL NON-CONSTRUCTION CONTRACTS

Subpart A: Equal Employment Opportunity

1. Executive Order 11246, as amended (Contracts/subcontracts above \$10,000)
 - a. During the performance of this contract, the contractor agrees as follows:
 - (1) The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to the following: Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
 - (2) The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive considerations for employment without regard to race, color, religion, sex, or national origin.
 - (3) The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
 - (4) The contractor will comply with all provisions of Executive Order 11246, as amended, and of the rules, regulations, and relevant orders of the Secretary of Labor.
 - (5) The contractor will furnish all information and reports required by Executive Order 11246, as amended, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency

and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

- (6) In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246, as amended, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246, as amended, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.
- (7) The contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (7) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246, as amended, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance: Provided, however, That in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency the contractor may request the United States to enter into such litigation to protect the interests of the United States.

b. Subcontracts

Each prime contractor or subcontractor shall include the equal opportunity clause in each of its subcontracts.

Subpart B: Title VI of the Civil Rights Act of 1964, as Amended

All parties to this contract hereby agree to comply with the provisions of Title VI of the *Civil Rights Act of 1964* (Public Law 88-352) which provides: that no person in the United States shall, on the grounds of race, color, or national origin, be excluded from participation in be denied the benefits of, or be subjected to discrimination under any program or activity receiving federal financial assistance of any dollar amount – no minimum threshold.

Subpart C: Section 109 of the Housing and Community Development Act of 1974, as Amended

No person in the United States shall on the ground of race, color, national origin, or sex be excluded from participation in, be denied the benefits of or be subjected to discrimination under any program or activity funded in whole or in part with funds made available under this title. Any prohibition against discrimination on the basis of age under the Age Discrimination Act of 1975 or with respect to an otherwise qualified handicapped individual as provided in section 504 of the *Rehabilitation Act of 1973* shall also apply to any such program or activity of any dollar amount – no minimum threshold.

Subpart D: Section 3 of the Housing and Urban Development Act of 1968

(Applicable to all contracts/subcontracts valued at \$100,000 or more in federal funds)

1. The Section 3 area for this PROJECT is designated as the City of Franklin. Businesses and Residents of this City are considered “local” for project reporting purposes.
2. The work to be performed under this contract is on a project assisted under a program providing direct financial assistance from the Department of Housing and Urban Development and is subject to the requirements of Section 3 of the *Housing and Urban Development Act of 1968*, as amended, 12 U.S.C. 1701 u. Section 3 requires that to the greatest extent feasible, opportunities for training and employment be given to lower income residents of the project area, and that contracts in connection with the project be awarded to business concerns which are located in, and owned in substantial part by persons residing in the project area.
3. The parties to this contract will comply with the provisions of said Section 3 and the procedures for compliance issued pursuant thereto by the Virginia Department of Housing and Community Development set forth in this section to wit:
 - a. The PUBLIC BODY and the CONTRACTOR shall analyze the tasks to be performed under this CONTRACT and identify:
 - (1) The opportunities for training and employment of lower income residents of the project area, and
 - (2) Contracts for construction contracts, non-construction contracts, materials and supplies in connection with the project to be awarded to business concerns which are located in, and owned in substantial part by persons residing in the project area.

- b. After determining what construction contracts, non-construction contracts, materials and supplies will be needed to be procured by the CONTRACTOR to complete the contract:
 - (1) The CONTRACTOR shall fill all employment positions to the greatest extent feasible with residents of the local (Section 3) City to the extent such residents are available and meet the generally accepted qualifications for the position(s) needed to be filled. And, the CONTRACTOR will fill all vacant trainee positions to the greatest extent feasible with residents of the local (Section 3) City to the extent such residents are available.
 - (2) The CONTRACTOR will subcontract to, and procure to the greatest extent feasible all construction contracts, non-construction contracts, materials and supplies necessary for the PROJECT from business concerns located and substantially owned by residents of the local (Section 3) City to the extent that such items are available, and of comparable quality and cost.
- c. The CONTRACTOR shall not circumvent these Section 3 requirements by:
 - (1) Filling vacant trainee or employment positions in its organization immediately prior to undertaking work on the PROJECT; or
 - (2) Entering into procurement contracts immediately prior to undertaking work on the PROJECT.
- 4. The CONTRACTOR will include this Section in every subcontract for work in connection with this PROJECT and will at the direction of the PUBLIC BODY take corrective action pursuant to the SUBCONTRACT upon a finding that the SUBCONTRACTOR is in violation of these provisions. The CONTRACTOR will not subcontract with any SUBCONTRACTOR where it has notice or knowledge that the latter has been found in violation of *Section 3 of the Housing and Urban Development Act of 1968*, and will not award any SUBCONTRACT unless the SUBCONTRACTOR has provided it with a preliminary statement of ability to comply with Section 3.
- 5. Compliance with the provisions of Section 3 and the provisions of this Section are a condition of the Federal financial assistance provided to the PROJECT, binding upon the PUBLIC BODY. Failure to fulfill these requirements shall subject the PUBLIC BODY, its contractors, its subcontractors and its successors to those sanctions specified by the grant agreement or contract through which Federal assistance is provided.

6. The parties to this CONTRACT verify and agree that they are under no contractual or other disability which would prevent them from complying with these requirements.

Subpart E: Records Retention

The CONTRACTOR shall maintain financial records, supporting documents, statistical records, and all other records pertinent to this contract during the period of this contract and for five (5) years from the date of final payment; except, if any litigation, claim or audit is started before the expiration of the 5-year period, the records shall be retained until all litigations, claims, or audit findings involving the records have been resolved.

Subpart F: Provisions Required by Law Deemed Inserted

The provisions of Article 4 (Ethics in Public Contracting), Chapter 7 of Title 11 of the Code of Virginia, as amended, is hereby incorporated by reference and each and every other provision of law and clause required by law to be inserted herein shall be deemed to be inserted herein and the contract shall be read and enforced as though it were included herein.

Subpart G: Immigration Reform and Control Act of 1986

The Contractor agrees by signing this contract that he/she does not and will not during the performance of this contract violate the provisions of the *Federal Immigration Reform and Control Act of 1986*, which prohibits employment of illegal aliens.

Subpart H: Access to Records

The Public Body, the Virginia Department of Housing and Community Development, the U.S. Department of Housing and Urban Development, the U.S. Department of Labor, the Inspector General, and the General Accounting Office, or any of their duly authorized representatives, shall have access to any books, documents, papers, and records of the Contractor which are directly pertinent to this Contract for the purpose of making audit, examination, excerpts, and transcriptions.

Subpart I: Drug-Free Workplace Act Assurances

The Contractor agrees by signing this contract that he/she will provide a drug-free workplace by:

- (a) Publishing a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance is prohibited in the grantee's workplace and specifying the actions that will be taken against employees for violation of such prohibition;
- (b) Establishing a drug-free awareness program to inform employees about -
 - i. The dangers of drug abuse in the workplace;
 - ii. The grantee's policy of maintaining a drug-free workplace;
 - iii. Any available drug counseling, rehabilitation, and employee assistance programs; and
 - iv. The penalties that may be imposed upon employees for drug abuse violations occurring in the workplace;
- (c) Making it a requirement that each employee to be engaged in the performance of the grant be given a copy of the statement required by paragraph (a);
- (d) Notifying the employee in the statement required by paragraph (a) that, as a condition of employment under the grant, the employee will -
 - i. Abide by the terms of the statement; and
 - ii. Notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than five days after such conviction;
- (e) Notifying the Virginia Department of Housing and Community Development within ten days after receiving notice under subparagraph (d)(2) from an employee or otherwise receiving actual notice of such condition;
- (f) Taking one of the following actions, within 30 days of receiving notice under subparagraph (d)(2), with respect to any employee who is so convicted -
 - i. Taking appropriate personnel action against such an employee, up to and including termination; or

- ii. Requiring such employee to participate satisfactorily in a drug abuse assistance or rehabilitation program approved for such purposes by a Federal, State, or local health, law enforcement, or other appropriate agency;
- (g) Making a good faith effort to continue to maintain a drug-free workplace through implementation of paragraphs (a), (b), (c), (d), (e) and (f).

Name & Title

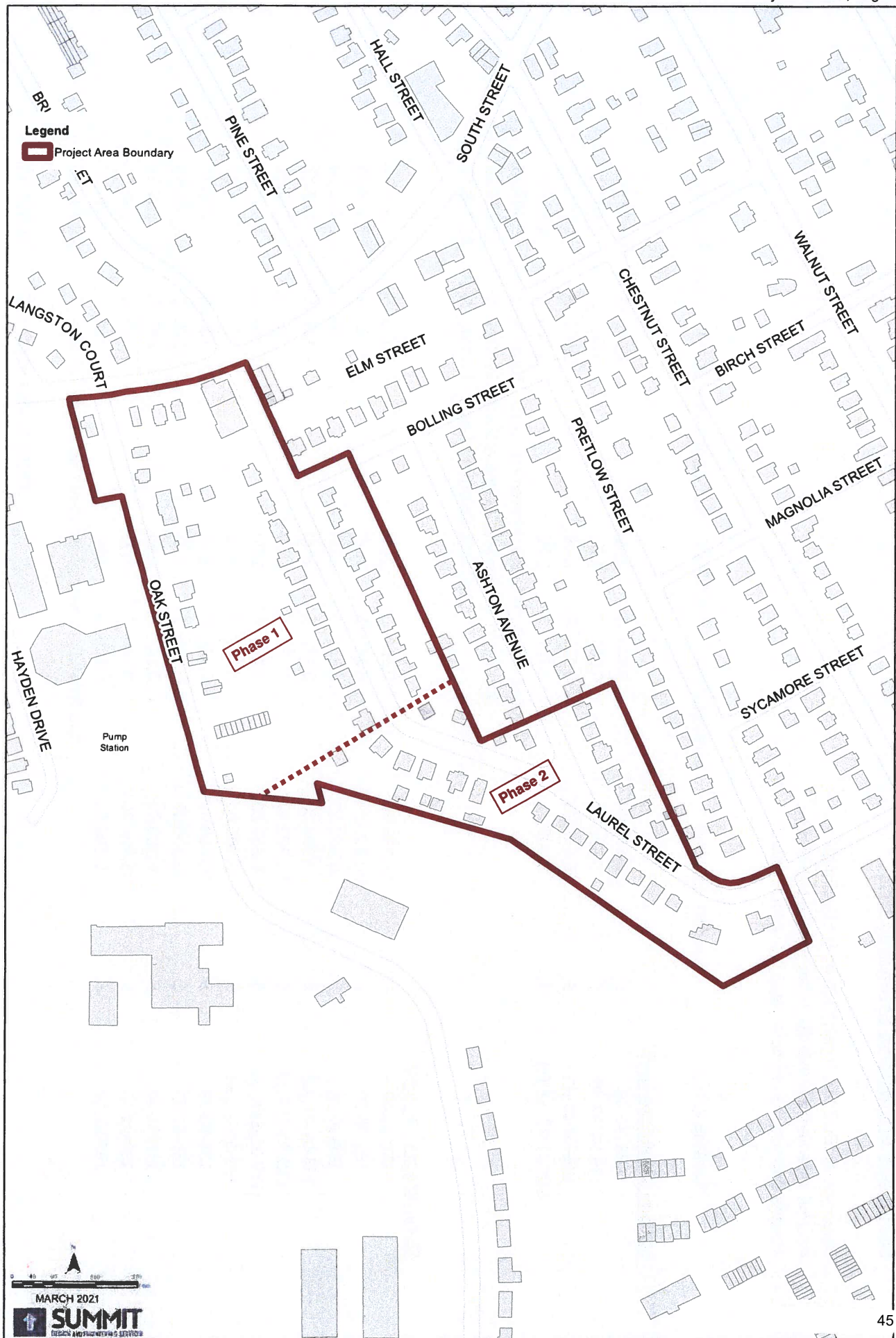
Signature

Date

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Appendix J:

Project Area Map



Appendix K:

Budget

Budget Information:

Cost/Activity Category	DHCD Request	Other Funding	Total
Administration	\$110,000.00	\$14,500.00	\$124,500.00
Administrative Project Closeout	\$5,500.00	\$0.00	\$5,500.00
Construction Completion	\$29,800.00	\$0.00	\$29,800.00
Contract Monitoring	\$26,200.00	\$0.00	\$26,200.00
Execution of DHCD Contract	\$15,000.00	\$0.00	\$15,000.00
Execution of Project Contract(s)	\$27,500.00	\$0.00	\$27,500.00
Satisfactory Compliance Review(s)	\$6,000.00	\$0.00	\$6,000.00
Other: Legal, Advertising, Workshops	\$0.00	\$14,500.00	\$14,500.00
Interim Assistance	\$0.00	\$4,000.00	\$4,000.00
Interim Assistance	\$0.00	\$4,000.00	\$4,000.00
Permanent Relocation	\$0.00	\$0.00	\$0.00
Acquisition	\$0.00	\$0.00	\$0.00
Clearance and Demolition	\$0.00	\$0.00	\$0.00
Owner Occupied Housing Rehabilitation	\$242,100.00	\$42,800.00	\$284,900.00
Home Maintenance Education Program	\$1,300.00	\$0.00	\$1,300.00
Owner Occupied Housing Rehabilitation	\$209,800.00	\$37,000.00	\$246,800.00
Rehabilitation Specialist	\$21,000.00	\$3,700.00	\$24,700.00
Temporary Relocation	\$10,000.00	\$0.00	\$10,000.00
Other: Waiver of Building Permit Fees	\$0.00	\$2,100.00	\$2,100.00
Investor-Owned Housing Rehabilitation	\$423,800.00	\$77,600.00	\$501,400.00
Home Maintenance Education Program	\$2,500.00	\$0.00	\$2,500.00
Investor-Owned Housing Rehabilitation	\$364,800.00	\$66,700.00	\$431,500.00
Rehabilitation Specialist	\$36,500.00	\$6,700.00	\$43,200.00
Other: Temporary Relocation	\$20,000.00	\$0.00	\$20,000.00
Other: Waiver of Building Permit Fees	\$0.00	\$4,200.00	\$4,200.00
Owner Occupied Substantial Reconstruction	\$0.00	\$0.00	\$0.00
Homeownership Creation	\$0.00	\$0.00	\$0.00
Sewer Improvements	\$584,100.00	\$248,600.00	\$832,700.00
Sewer Improvements	\$503,400.00	\$214,200.00	\$717,600.00
Other: Engineering	\$50,400.00	\$21,500.00	\$71,900.00
Other: Inspections	\$30,300.00	\$12,900.00	\$43,200.00
Water Improvements	\$0.00	\$0.00	\$0.00
Storm Sewer Improvements	\$0.00	\$0.00	\$0.00
Street Improvements	\$0.00	\$0.00	\$0.00
Flood Drainage Facilities	\$0.00	\$0.00	\$0.00
Telecommunications	\$0.00	\$0.00	\$0.00
Business District Revitalization	\$0.00	\$0.00	\$0.00
Total:	\$1,360,000.00	\$387,500.00	\$1,747,500.00

Appendix L: Preliminary Engineering Report

PRELIMINARY ENGINEERING REPORT
for the
LAUREL STREET
COMMUNITY DEVELOPMENT BLOCK GRANT (CDBG)

PREPARED FOR:
CITY OF FRANKLIN
207 W. SECOND AVENUE
FRANKLIN, VIRGINIA 23851

MARCH 2021



PREPARED BY:
SUMMIT DESIGN AND ENGINEERING SERVICES, PLLC
2201 WEST BROAD STREET, SUITE 204
RICHMOND, VIRGINIA 23220

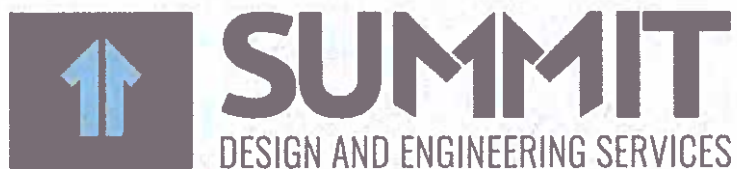


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SECTION 1: INTRODUCTION

The City of Franklin (City) commissioned Summit Design and Engineering Services, PLLC (Summit DES) to assist with the preliminary planning, engineering and design services for housing rehabilitation and infrastructure improvements in the Laurel Street neighborhood.

Summit DES has prepared this Preliminary Engineering Report (PER, Report) to assess the condition of the public infrastructure within the study area. This PER provides details on existing conditions of the public infrastructure, identifies deficiencies, recommends improvements, and provides a preliminary cost estimate for the recommended improvements. A combination of resources were used to prepare this report including on-site assessments, resident surveys, input from City representatives, and publicly available resources (Google Maps, Franklin City GIS, internet searches, etc.).

SECTION 2: STUDY AREA

Laurel Street is a local road located in a neighborhood south of Route 258 (South Street) and west of the Blackwater River. The study area is approximately 8.4 acres encompassing Laurel Street from South Street to Pretlow Street, including all residential lots fronting the west side of Laurel Street and those lots fronting the east side of Laurel Street between Bolling Street and Pretlow Street. The study area further has an extension to the west to encompass the sanitary sewer pump station on Oak Street approximately 850 ft. south of South Street. (See Section 7 for Study Area changes.)

The study area is characterized by relatively flat terrain. The study area is comprised of forty-two (42) residential units and one (1) sanitary pump station. Of the 42 residential units, forty (40) are single family detached units, one (1) is a separate second unit sharing the property and two (2) units comprise a single family attached duplex. There is also an existing vacant lot within the study area; it appears this lot once contained a structure that has since been demolished.

The study area is serviced by overhead power, telephone and cable, by water and a gravity sanitary sewer with an incoming force main. Drainage is picked up by inlets along Laurel Street, outfalling to a natural channel along the back of the properties along the west side of Laurel Street, then draining southeasterly toward the Blackwater River. A significant portion of the natural channel is within the 100 year floodplain. A map of the study area is shown in Appendix 1.

As a precursor to the preparation of this PER, a needs assessment of the study area was conducted by the Summit DES Planning Department in conjunction with City officials. City officials identified several potential needs within the designated study area including reinstallation and upgrade of the Sewer Force Main (SFM), upgrading of some sewer laterals and cleanouts, lining and/or replacement of storm sewers, upgrade of pedestrian facilities to meet the Americans with Disabilities Act (ADA) requirements, possible addition of sidewalk to complete missing links in the pedestrian network, repair of damaged sidewalk and curb and gutter, and milling and resurfacing the pavement. The watermain is considered in adequate condition. Concerns identified by the resident survey include sewer odors and backups, some low water pressures, some complaints of water taste and some yards holding water following rain events.

SECTION 3: EXISTING CONDITIONS

3.1 Sanitary Sewer and Water Distribution Systems

The City of Franklin Department Public Works (DPW) maintains the sanitary sewer and water distribution systems within the project area. Facility conditions were discussed during several conference calls between Franklin Public Works Department and Summit DES representatives.

a. Sanitary Sewer System

From the City of Franklin GIS Viewer and feedback from the DPW, the study area is served by a 10" diameter (Ø) gravity sewer line in Laurel Street; this line has been previously rehabilitated with Cured-in-Place Pipe (CIPP) lining. The sewer line begins approximately 135 ft. south of the South Street centerline, crosses Pretlow Street and continues to the Wastewater Treatment Plant on South Main Street. Additional gravity flow sewer lines feed into the Laurel Street line from the alleyway north of Bolling Street, from Ashton Avenue and from the westerly side of Pretlow Street (north side). The Laurel Street sewer line also picks up a Sanitary Force Main (SFM) at SMH62-136 from a sanitary pump station located on the east side of Oak Street approximately 850 feet south of South Street. Reference Appendix 2-1 for locations of the sewer main, force main, manholes and pump station.

The DPW advised that the sanitary line in Laurel Street has been CIPP lined, however all laterals need upgrading either by similar lining or replacement. There are forty (40) laterals total, with an unknown mix of 4" and 6" clay; the duplex is served by one (1) lateral and the secondary residence is apparently tied to the primary residence lateral. Of the 40 laterals, twelve (12) have cleanouts at both the house and the R/W, eleven (11) have cleanouts at the R/W only, five (5) have cleanouts at the house only, and twelve (12) have no cleanouts at all. Existing cleanouts are shown in Appendix 2-2.

The DPW indicates the SFM needs to be replaced with upgraded materials. The 398 ft. (±) force main runs from the pump station/wet well, crosses an unnamed tributary/open channel, continues between the residences at 569 and 571 Laurel Street, to the sanitary manhole #SMH62-136 in front of 569 Laurel Street. Currently the SFM is not within a defined easement and a substantial section of the path (100 ft. ±) is vegetated and is impacted by fences and possibly other impediments. The existing SFM, a 6"Ø lead joint cast iron pipe (CIP), is in excess of 60 years old leading to safety and health concerns over pipe breakage and leakage. The risk is further compounded at the tributary crossing where the SFM is exposed, is capturing vegetation and other debris, and is subject to damage from falling trees. The SFM currently experiences normal pressures of 25 – 30 psi, with maximum pressures reaching 50 psi. From the City GIS Viewer, the wet well depth is 22 ft. and the sanitary manhole is approximately 8.1 ft. depth (rim to invert out). Where the SFM is exposed at the tributary crossing, it is between 11' and 12' below the top of the adjacent (westerly) slope.

Photos of the pump station and SFM are included in Appendix 2-3.

b. Water Distribution System (reference Appendix 3)

Laurel Street has a 6"ø Ductile Iron Pipe (DIP) water main running the length of the road. The DPW is not aware of any identifiable problem with the water main.

There is an existing fire hydrant located in a concrete block retaining wall in front of 564 Laurel Street. Flowrate for this hydrant is a minimum of 500 gpm, which is acceptable. The City GIS Viewer also shows a fire hydrant at 580 Ashton Avenue, however a field review reveals there is no fire hydrant in that vicinity. Per discussion with DPW, this hydrant was damaged and not replaced since it was not within an easement.

3.2 Stormwater Drainage System

The drainage system (reference Appendix 4) in the study area is comprised of a storm sewer system conveying to a natural channel that runs behind the residences on the west side of Laurel Street, ultimately draining to the Blackwater River. From north of South Street, a contributing drainage area enters the closed system via a 42 inch Corrugated Metal Pipe (CMP); this pipe continues to a manhole in Laurel Street approximately 208 feet south of the South Street centerline. From the manhole, drainage continues westerly approximately 135 feet in a 48 inch CMP to a catch basin at the back of the parcels fronting Laurel Street. Additionally, the catch basin has a 42 inch CMP entering from the west from outside the study area. The closed system then continues southerly through approximately 105 feet of 48 inch CMP to an open channel outfall.

From the GIS Viewer, drainage along Laurel Street is captured in curb Drop Inlets (DI's) as follows.

STR #4719	East Side between South Street and Bolling Street
STR #4718	West Side between South Street and Bolling Street
STR #4717	West Side between 551 and 555 Laurel Street
STR #4716	West Side between 571 and 573 Laurel Street
STR #4722	East Side immediately north of Ashton Avenue
STR #4723	West Side just north of 587 Laurel Street

STR #4719 outfalls through 12" concrete pipe to a manhole in Laurel Street (STR #4648), then entering the 48" CMP system to STR #4718. All other DI's outfall through 12" concrete pipe to the open channel.

Five (5) DI's (STR's 4719, 4717, 4716, 4722 and 4723) have significant damage or other deterioration as shown in Appendix 5.

Discussion with the DPW indicates there is not a roadway flooding problem within the study area leading to the assumption that all lines and inlets are adequately sized. The scope of this report does not allow a comprehensive investigation of the storm sewer pipe conditions. However, the DPW advises the closed drainage system needs lining or replacement due to failing joints and collapsing pipes. As with the sanitary sewer system, there are no easements for storm sewer lines and structures outside of the roadway right of way. Access to some of these lines are impeded by fences, vegetation and other encroachments. Although a roadway flooding problem has not been identified, there are several areas where it appears water may stand following rainfall events based on sediment in the gutter pans; these areas include,

- Southeast return of Laurel/Bolling Street intersection
- Northwest return of Ashton Ave/Laurel Street intersection
- Southeast return of Ashton Ave/Laurel Street intersection (in front of 584 Ashton Avenue)

Levels were run on the top of curb at these locations and found slight low areas that, combined with differential settlement, appear to be the primary factor. Although perhaps not a flooding concern, these can be a nuisance and possibly support breeding areas for mosquitoes or similar pests.

It is also noted that there are no DI's on either side of Laurel Street at the Pretlow Street curb returns. Best practices in roadway design include placing inlets prior to curb returns to avoid potential for drainage to escape the gutter pans and enter or cross the intersection.

3.3 Pedestrian Facilities

Laurel Street has a 4 ft. concrete sidewalk located along the east side from approximately 119 ft. north of Bolling Street to Ashton Avenue. Between Bolling Street and South Street, fronting the commercial properties, the concrete sidewalk is 12 ft. There is no sidewalk adjacent to Laurel Street between Ashton Avenue and Pretlow Street, nor is there a crosswalk at Ashton Avenue. There is also no evidence of worn paths behind the curb suggesting pedestrians are using the roadway for foot travel between Ashton Avenue and Pretlow Street. Additionally, there are a variety of trees, bushes, shrubs and signs behind the curb where pedestrian activity would normally occur, as well as some cross slopes that would not be conducive to foot travel.

There are two fundamental regulations governing pedestrian facilities in Virginia. One is the Americans with Disabilities Act (ADA) and the other is the Code of Virginia. Additionally, the United States Access Board has promulgated guidelines for compliance with the ADA within public rights of way, the Public Rights of Way Accessibility Guidelines or PROWAG.

The *Code of Virginia, Section 15.2-2021* states, "...every locality requiring curbs along its streets that incorporate accessible routes for pedestrian use, such as existing or proposed sidewalks, shall require that curb ramps be constructed at intersections for use by persons with mobility impairments. The ramps shall comply with the Virginia Department of Transportation's Road and Bridge Standards. Local option, variance or waiver of these standards is prohibited." It appears the Laurel Street crossing adjacent to South Street has been upgraded recently and is assumed to meet current requirements. There are no existing curb ramps at the Bolling Street intersection or at the crossing of Laurel Street adjacent to Pretlow Street (reference Appendix 6-1). There is also not a curb ramp at the northerly intersection of Ashton Avenue with Laurel Street; this would not be a current requirement as the sidewalk does not extend to the curb and there is currently not a receiving area or traversable path opposite this sidewalk to cross to. Installation of sidewalk along the easterly side of Laurel Street between Ashton Avenue and Pretlow Street would be require construction of curb ramps at both sides of Ashton Avenue.

The sidewalk has sections that are cracked, broken or depressed due to differential settlement. Depressed sections can cause tripping hazards as well as slippery surfaces where water stands and freezes. In numerous areas, the joints have vegetation growing in them, again creating tripping hazards and further deterioration of the sidewalk. The estimated quantity of damaged sidewalk is 143 sq. yds. Refer to Appendix 6-2 for photos of existing sidewalk conditions.

3.4 Laurel Street

Laurel Street, maintained by the City in a 50 ft. R/W, is an urban local street approximately 1,755 feet from South Street to Pretlow Street. It is 34 ft. from face of curb to face of curb, 6 in. concrete curb with 18 in. gutter pans both sides and an asphalt concrete pavement structure. The DPW noted the road surface has excessive crown. Field measurements verify Laurel Street has a 3% or greater cross slope, exceeding the typical 2.08% for a roadway. The actual design cross slope for Laurel Street is unknown. The curb returns at Bolling Street and at Pretlow Street measure approximately 7.5 ft. radius to face of curb, substantially below the City standard of 25 ft.

The speed limit along Laurel Street is 25 MPH and parking is unrestricted on either side of the road. Traffic volumes are unknown as of this report; however, based on standard traffic generation for 41 single family homes it is estimated to be approximately 410 vehicles per day. No external traffic generators have been identified that would promote significant cut-through traffic therefore any cut-through traffic is considered to be sporadic and incidental to the neighborhood generation.

The road surface is characterized by numerous patches due to utility work, as well as longitudinal, transverse and alligator cracking, and several potholes and occasional other depressions. The last overlay of the surface extends above the gutter pan 1 to 2 inches in many locations, which can present a tripping hazard and affect the design characteristics of drainage flow. Refer to Appendix 7-1 for pavement conditions. Street lighting is present on Laurel Street throughout the study area.

Like the sidewalk, the curb and gutter has numerous segments that are cracked or broken; other segments exhibit differential settlement, which can lead to standing water. Standing water can contribute premature deterioration as well as other problems like freezing or serving as a breeding ground for mosquitoes and related health risks. In some spots, roof drains have been daylighted through the curb face; in other spots the curb has been cut (reference Appendix 7-2). The estimated quantity of damaged curb and gutter is 1,173 ft.

Field review identifies several manhole frame and covers and waterline valve boxes not flush with the paved surface. Depressed structures can hold water and lead to early deterioration or damages. Structures protruding above the pavement can not only be damaged, but also cause damage to vehicles and maintenance equipment (reference Appendix 7-3).

Driveway entrances along Laurel Street do not appear to meet a consistent design standard, varying from simple depressed curbs to full width concrete slabs extending to the R/W. Some of the entrances cross the sidewalk with variable cross slopes, which may or may not meet ADA criteria. As with the sidewalk and the curb and gutter, some entrances have cracks and other damage.

SECTION 4: RECOMMENDATIONS

4.1 Sanitary Sewer and Water Distribution Systems

a. General

The surveys indicated some residents experiencing sewer odors in their homes. Discussion with DPW suggest a couple of possibilities for such odors. One cause could be related to the anode on newer hot water heaters reacting with the water. Another cause is the possibility of some houses not having P-traps for all their drains, thus allowing sewer odors to infiltrate the structure. A further survey of each house where odor problems have been identified will be necessary to determine if either of these causes are the genesis of the problem.

b. Sanitary Sewer Laterals and Cleanouts

The total length of sanitary laterals is estimated at 2,000 LF assuming an average of 50 LF per lateral from house to mainline. Until such time as all laterals can be scoped, it is not possible to determine what laterals can be upgraded with CIPP lining and what laterals will require replacement. Scoping will be a preliminary step prior to installing CIPP lining. This report will assume all laterals will be CIPP lined.

The cost to install CIPP lining is essentially the same regardless of whether it is a 4" or 6" lateral. Since the main sewer has already been lined, there should be no additional costs for cutting the laterals at the connection. The lateral costs per linear foot includes scoping, materials and complete installation of the lining.

To facilitate CIPP lining and to promote good sewer design practice, it is recommended that cleanouts be installed at the R/W limits as well as at each structure where they do not currently exist. Forty (40) cleanouts, shown in Appendix 2-2, will need to be installed.

c. Sanitary Sewer Force Main

The DPW has identified the need to upgrade the SFM between the pump station and Laurel Street by replacing the existing cast iron line with ductile iron. To access and perform work on the SFM, a permanent utility easement is needed across three (3) parcels. Additionally, a temporary easement may be needed across three (3) parcels to accommodate materials and equipment for a pump-around operation. Refer to the Right of Way and Easement Acquisition Section 6.2 of this report for additional information.

A complication in replacing the SFM is crossing a stream and the 100 year floodplain (reference Appendix 8); wetland impacts are a further possibility. A compounding problem is the depth of the SFM, which can be as much as 22 ft. at the wet well. Each of these constraints can have significant time impacts, either through the approval process or during the construction process. To minimize or avoid these impacts, the jack and bore method of installation, approximately 116 ft., would initially appear to be the most prudent. Advantages of the jack and bore method include,

- No land disturbance through the limits of the floodplain;
- No need for a stream diversion to allow open cutting;
- Boring and receiving pits can be readily contained and protected to minimize erosion control needs and impacts;
- Assuming no rock is encountered, the process should proceed fairly rapidly compared to trenching at depths up to 22 ft.;
- Trenching can be performed in areas outside the floodplain and at shallower depths;

Of the 398 ft (±) of replacement pipe, it is estimated 120 ft. through the casing will be restrained joint.

Prior to any replacement of the SFM, an engineering analysis should be performed to assure adequacy of the system. Additionally, since plans are not available for the existing line, a location study will be needed to confirm the depth and alignment (horizontal and vertical) of the existing line.

Any sections of existing SFM that are abandoned in place should be capped and filled with a flowable fill. Additionally, this PER proposes filling the annular space between the casing and the carrier pipe with a flowable fill grout, as indicated by the DPW.

Testing of the SFM shall be done in accordance with the City of Franklin Construction Specifications and Standards. Additionally, the pump around operation should be monitored continuously (24/7) and a backup pump should be immediately available.

All costs for a location study should be included as incidental to other costs for the SFM. Also, costs for such items as mobilization, fencing, excavation, shoring, removal and disposal of existing pipe, testing and backfilling should be incidental to other related items.

d. Water Distribution System

Water facilities and the existing hydrant within the study area are considered adequate. Following discussion with the DPW, it is recommended the missing fire hydrant be replaced within the right of way to avoid the need for an easement. (Reference Appendix 3)

4.2 Stormwater Drainage System

To determine the existing condition of the storm sewer system and the appropriate treatment, video or other inspection of the system will be necessary in conjunction with a complete hydraulic analysis. This report will provide a couple of options for consideration in upgrading the system.

Two basic options are considered for upgrading the current pipe condition, relining and replacement. Two of the methods of relining considered are slip lining and Cured-in-Place Pipe (CIPP) lining. Slip lining involves the installation of a smaller "carrier" pipe into the larger existing pipe and then grouting the annular space between the pipes. Slip lining is more suitable to a culvert restoration where at least one end of the host pipe is open. CIPP lining can be used in either a culvert or storm sewer line. Both relining options will affect the hydraulic capacity of the pipes and should not be performed without a

detailed hydraulic analysis to confirm adequacy, which is not a part of this report. Under the right circumstances, relining involves little, if any, excavation, minimizing disruption to the surface and related environmental impacts. It also avoids affecting other buried utilities and minimally affects traffic.

Replacement generally involves open cutting with significant earth disturbance, traffic impacts, other buried utility impacts and potentially higher overall costs. Each method has advantages and disadvantages as discussed below.

Slip Lining

The advantages of slip lining include

- providing structural capacity to the pipe
- significantly increased service life
- reduced excavation and disruption
- reduced time from full replacement

The most significant disadvantages are the reduced hydraulic capacity, material costs and it is not readily suitable to most storm sewer applications. Slip lining will also require verification and possible adjustment of invert elevations.

Cured-in-Place Pipe (CIPP) Lining

CIPP involves installation of a flexible membrane into the host pipe, expanding it and bonding it to the host pipe. Relining helps to seal off and restore damages to the pipe, allowing better hydraulic characteristics than existing and preventing undermining of pipes at openings. Although the hydraulics are improved from existing conditions, they may not meet original design capacities of the structure; therefore, a complete hydraulic analysis prior to selecting this option is needed. CIPP is relatively quick to install, can be installed in open or closed pipe systems, causes little disturbance or disruption, can conform to pipe distortions and is generally less expensive than replacement or slip lining options. Disadvantages include not adding significant structural capacity to the pipe and potential for inadequate flow due to existing deformities. Also, due to the weight of the coated membrane, for larger pipes it is necessary to mobilize additional crane equipment to handle.

Pipe Replacement

In-kind pipe replacement fully restores the capacity, structural integrity and design life of the original system by open cutting, removing and replacing the existing pipes. Open cutting can also allow increasing the capacity of pipes if needed. Open cutting involves significant disruption and disturbance to the surface. It is more time consuming than relining and may be more costly overall depending on the level of traffic control involved, the impact of other buried utilities and required surface restoration.

Since much of the storm sewer involved on this project is closed, the slip lining method of relining will not be further considered. Estimates will be derived for both CIPP lining and replacement. Depending on the degree of degradation of the existing pipes, as determined during a video inspection, some replacement may be necessary regardless.

All storm sewer proposed for upgrade outside of the R/W is on private property with no identified easements. To access and perform work on the system, easements will be necessary. Refer to Section 6.2, Right of Way and Easement Acquisition for further details.

Given the damaged condition of five existing DI's, it is recommended these be replaced with current standard DI's with the same throat widths unless a hydraulic analysis indicates otherwise. A hydraulic analysis should consider, among other things, the proposed cross slope of the roadway and whether the current locations of inlets are adequate.

The need for additional DI's prior to the Pretlow Street returns have been considered with this report. Although this is a best practice under new design and construction, without identifying an issue with drainage escaping the gutter pans at the returns and causing ice formation or other problems in the roadway, it would not be a prudent expense of funds to retrofit the current condition.

4.3 Pedestrian Facilities

The existing four (4) ft. sidewalk meets the minimum needs of a residential neighborhood of this type. Most of the sidewalk is in fair to good condition, however cracking and differential settlement are evident in some sections, which should be replaced to avoid or minimize tripping hazards and facilitate wheelchair access (reference Appendix 9-1). Based on measurements of sections recommended to be replaced and applying a ten percent (10%) adjustment for continuing deterioration prior to replacement, the quantity of replacement needed is estimated at 143 square yards.

In order to comply with the Code of Virginia cited earlier, accessible ramps with detectible surfaces, consistent with the Public Rights of Way Accessibility Guidelines (PROWAG), should be installed at both curb returns at the Bolling Street intersection and both returns at the Pretlow Street intersection for a total of four (4) ramps reference Appendices 9-1, 9-2). The curb ramp for the north return at Pretlow Street may need to be a modified design, possibly requiring an exception, due to the presence of a curb inlet. (Reference Appendix 6-2)

An option to be considered is installing approximately 440 ft. (196 SYD) of sidewalk along Laurel Street between Ashton Avenue and Pretlow Street to complete the network and be fully PROWAG compliant. This option would require adding two additional accessible ramps with detectible surfaces at the Ashton Avenue intersection. With the addition of the crosswalk, it is recommended the existing yield condition be changed to a stop condition. Due to the width of the intersection, location of a Stop sign, and changed traffic pattern, it is further recommended to install a Stop Ahead sign in advance (reference Appendix 10). Installation of a sidewalk from Ashton Avenue to Pretlow Street may, however, damage roots of several large trees, which may ultimately kill the trees. An arborist should be consulted prior to electing this option to determine near and long-term impacts on the trees.

Another option for consideration is replacing all sidewalk along Laurel Street instead of spot replacement. This option would increase overall costs by an estimated \$25,000. However, the benefits of this option include,

- Prudent and cost effective while crews are mobilized
- Consistency throughout neighborhood
- Extended service life for all sidewalk
- Aesthetics

An additional benefit would be eliminating any complaints or disputes that may arise from any appearance of inequitable treatment.

4.4 Laurel Street

Curb and Gutter (Reference Appendices 11-1, 11-2)

As noted previously in this report, approximately 1,173 LF of damaged curb and gutter are recommended for replacement; as with the sidewalk, a ten percent (10%) adjustment for continuing deterioration prior to construction is included.

The curb return radii at the Bolling Street intersection and at the Pretlow Street intersection are currently substandard. With the mobilization of incidental concrete crews to perform other curb and gutter work and accessible ramp construction, as well as paving crews for resurfacing, it would be prudent to upgrade the intersection returns to the 25 ft. standard to facilitate safer, more efficient turning movements. Additionally, revising the return radii will enhance gutter flows and reduce the opportunity for puddling or standing water in the gutter pans. While this can be done at the Bolling Street intersection, the Study Area does not encompass sufficient area at the Pretlow Street intersection to allow increasing the radii and improvements would require storm sewer modifications, significantly increasing costs.

Increasing return radii at the Bolling Street intersection will add an estimated 79 LF of radial curb and gutter. Expanding the radii at the returns will also require some additional stone subbase (Aggregate #21B) and asphalt base (BM-25.0A) before replacing the asphalt surface (SM-9.5A), as well as relocating the existing stop sign (reference Appendix 10).

Milling and Paving

The overall pavement condition on Laurel Street is poor due to numerous utility patches, longitudinal and transverse cracking, occasional alligator cracking and potholes. The pavement overlay extending above the gutter pan in numerous locations can reduce the roadway drainage efficiency and design performance.

Typical options for addressing pavement deficiencies include Slurry Seal or Mill and Pave. Slurry Seal is a low-cost option using an emulsified asphalt for filling and sealing minor cracks and extending the life of the pavement structure before milling and paving. Mill and Pave involves cold milling of the pavement surface and replacing it with a similar surface material.

Due to the extent of the deficiencies along with the excess pavement material at the gutter pans and given there are no signs of significant subgrade failure, it is recommended that the roadway surface be milled and replaced to provide a flush joint at the face of gutter. This will involve milling a minimum of 1-1/2 inches of asphalt surface. Additional material may require milling if the crown is to be reduced and to provide sufficient overlay to tie in flush with the gutter pans. The precise amount of milling and overlay can be determined once the existing depth of pavement structure is confirmed by asphalt coring, and a design cross-slope is provided. Additionally, any necessary adjustments to manhole frame and covers, waterline valve boxes or similar objects in the paved surface should be made prior to placement of the surface. It is recommended that the roadway cross slope be reduced (flattened) to 2.08% typical if it does not adversely affect the location of curb DI's, which can be verified by a hydraulic analysis.

Driveway Entrances

Many of the residential driveway entrances along Laurel Street consist of a depressed curb. Some locations have concrete entrances constructed that do not appear to meet a particular standard and it is questionable whether many of these are compliant with ADA criteria. If the City elects the options to replace all curb and gutter and all sidewalk, then consideration should be given to construction or reconstruction of all entrances to an appropriate VDOT standard. The advantages to replacing all entrances would include,

- Prudent and cost effective while crews are mobilized
- Consistency throughout neighborhood
- Aesthetically compatible with sidewalk and curb and gutter

As noted with sidewalk replacement above, replacing all entrances should avoid any appearance of inequitable treatment and minimize associated complaints and disputes.

SECTION 5: COST ESTIMATE

The cost estimate is developed using a variety of resources to include VDOT bid history, other regional bid submissions, estimates from similar projects and other resources. Although this report intends to secure the most applicable cost data, sometimes such data is not readily available. In such cases, available data was used with some engineering judgement.

The cost estimate (reference Appendix 12) is broken down by standard items and option items. Standard items are those that apply based on the recommendations presented in this report and are shown in Appendix 12-1. Option items are components that vary among options and are provided in Appendix 12-2. Eight (8) options are presented in the Cost Estimate Summary. The eight options are,

- Option 1: CIPP Storm Sewer Lining; Repair Concrete Sidewalk; Repair Curb & Gutter
- Option 2: CIPP Storm Sewer Lining; Repair Concrete Sidewalk; Replace All Curb & Gutter
- Option 3: CIPP Storm Sewer Lining; Replace All Concrete Sidewalk; Repair Curb & Gutter
- Option 4: CIPP Storm Sewer Lining; Replace All Concrete Sidewalk; Replace All Curb & Gutter
- Option 5: Replace Storm Sewer; Repair Concrete Sidewalk; Repair Curb & Gutter
- Option 6: Replace Storm Sewer; Repair Concrete Sidewalk; Replace All Curb & Gutter
- Option 7: Replace Storm Sewer; Replace All Concrete Sidewalk; Repair Curb & Gutter
- Option 8: Replace Storm Sewer; Replace All Concrete Sidewalk; Replace All Curb & Gutter

Each option is totaled, then other (percentage) construction costs are added to get the Total Construction Estimate. Milling and Paving costs are added to get a total cost for each option with Milling and Paving. Finally, the estimate shows the cost for alternatives, such as added sidewalk and replacement of entrances, as well as other costs such as milling and paving.

SECTION 6: IMPLEMENTATION

6.1 Permits

A permit will need to be obtained from the City of Franklin for recommended repairs and improvements.

The construction of the proposed returns, repair of concrete sidewalk and curb and gutter, and installation of curb ramps will total approximately 4,937 Sf. Other incidental disturbance will likely bring the total disturbance to greater than 5,000 SF. If complete restoration of sidewalk and curb and gutter is pursued, as well as construction of the sidewalk between Ashton Avenue and Pretlow Street, the total disturbance will exceed 10,000 SF requiring an Erosion and Sediment Control Plan. In accordance with the City of Franklin Code of Ordinances, §9-20, an Erosion and Sedimentation Control Plan is required to be submitted to the City Manager.

6.2 Right of Way (R/W) and Easement Acquisition

Right of Way and Easements define legal rights to property. As such, any recommendations in this section and this report are intended as guidance for discussion with proper legal counsel, not as legal opinions or conclusions.

With a 50 ft. existing R/W and current street widths, proposed curb return improvements should be able to be constructed without the need for additional R/W.

Based on the data provided in the GIS Viewer, easements appear to be needed as follows unless laws governing prescriptive easements prevail.

Estimated costs for easements are provided in Appendix 13. Cost estimates are based on the estimated area of easement and the corresponding unit land value.

Sanitary Force Main

A permanent utility easement is needed across portions of the following Tax Map parcels

138-90-39	DB 332, Pg 395
139-91-40	DB ???, Pg ???
139-91-39	DB ???, Pg ???

For the temporary pump around, it appears a temporary easement will be needed across portions of the following Tax Map parcels

138-90-39	DB 332, Pg 395
139-91-38*	DB 431, Pg 606
139-91-37*	DB 431, Pg 606

*A permanent storm sewer easement is needed across these parcels (see below). If the easement documents include use for sanitary sewer maintenance, it appears the pump around could be set up and there would not be a need for a separate temporary easement on these parcels.

Storm Sewer

A permanent storm sewer easement is needed across portions of the following Tax Map parcels

138-91-63	DB ???, Pg ???	139-91-37	DB 431, Pg 606
138-90-30	DB ???, Pg ???	139-91-38	DB 431, Pg 606
138-90-31	DB 446, Pg 171	138-90-39**	DB 332, Pg 395
138-90-31A	DB 202, Pg 732	139-91-23	DB ???, Pg ???
138-90-32	DB 202, Pg 732	139-91-24	DB ???, Pg ???
139-91-54A	DB ???, Pg ???	139-91-12	DB ???, Pg ???
139-91-55	DB ???, Pg ???	139-91-11	DB ???, Pg ???

**The impact to Parcel 138-90-39 needs to be verified. The City will need to determine easement dimensions, the exact location of the storm sewer outfall and the proximity to the parcel boundary.

Other Easements

A temporary construction easement may be needed to install the sidewalk between Ashton Avenue and Pretlow Street, if that option is selected.

6.3 Maintenance of Traffic (MOT) and Work Area Protection

Maintaining both vehicular and pedestrian traffic is a critical element of construction projects. The Virginia Work Area Protection Manual and the Manual on Uniform Traffic Control Devices provide detailed guidance and direction for establishing work zones. All work within the R/W should comply with these documents as well as any other details the City may require. Further, the security of on-lookers and bystanders needs to be considered, especially in a neighborhood where residents and children may not recognize the dangers that can be present. Excavations left open outside of the roadway should be protected by construction fencing or other appropriate measures to reduce risks.

The degree of traffic control will be largely dependent on the type and amount of work required in the roadway. If CIPP lining is the option for the upgrading the storm sewer system, traffic can likely be maintained by standard flagging operations. However, if there is a need to replace storm sewer pipes in the roadway by open-cutting, a detour will likely be necessary. Depending on whether any sanitary laterals need to be replaced to the sewer main, and the quantity and location, the work may be performed under routine flagging operations or again may require a detour operation. The local street network should readily facilitate any needed detour operations.

Milling and paving should be able to be handled by a standard flagging/pilot truck operation. During these operations parking will need to be restricted along both sides of Laurel Street.

Any open cut of the road should be adequately backfilled or covered when work is not in progress. Sidewalks will need to be closed and a pedestrian detour route established during sidewalk replacement.

Communication is important during work zone operations. Notifying local residents and other users of planned operations through handouts, portable changeable message signs, mounted signage and proper work zone establishment can minimize delays and inconvenience and enhance safety. Based on the schedule and plan of operations, the contractor should develop a traffic maintenance plan that incorporates timely notification to the traveling public.

As a lump sum item, MOT should include all costs for temporary and post mounted work zone signs, portable changeable message signs, flaggers, pilot trucks, electronic arrows, cones, drums, barricades, safety fencing, pedestrian and vehicular detours, maintenance of traffic plan, public notifications and any other items deemed necessary to notify and efficiently and effectively regulate traffic through or around the area of construction.

SECTION 7: PHASING

To this point, this Preliminary Engineering Report has addressed what was the initial scope of work. A subsequent decision has been made to expand the scope of this study to include those residences along Oak Street from South Street to the pump station, add six (6) residences along Ashton Avenue, add two (2) residences along the northeast side of Laurel Street below Ashton Avenue, four units along South Street, and split the project into two (2) phases as shown in Appendix 14. The added residential units include seventeen (17) single family detached, two (2) single family attached duplexes, and two (2) multi-family attached apartment buildings. The expanded study area comprises approximately 6.0 acres bringing the total study area to 14.4 acres.

Phase 1 includes all residences from 547 to 571 Laurel Street, the residences along South Street between Laurel Street and Oak Street, and all residences along Oak Street from South Street to and including the Sanitary Pump Station. Phase 1 includes providing CIPP lining for all sanitary laterals and providing cleanouts at the R/W line and adjacent to each residence along Oak Street; repair of sidewalk, curb and gutter, and milling and paving of Oak Street.

Phase 2 captures all residences from 572 Laurel Street to Pretlow Street, all residences along the easterly side of Ashton Avenue from 576 to 584, and 579 on the westerly side of Ashton Avenue.

The conditions along Oak Street appear to be similar to those along Laurel Street. Therefore, similar percentages of sidewalk and curb and gutter repair were assumed in developing costs on Oak Street. Paving costs for Oak Street have added a cost for base and subgrade repair as there appear to be some more significant areas of alligator cracking and pavement deformation suggesting some subgrade problems.

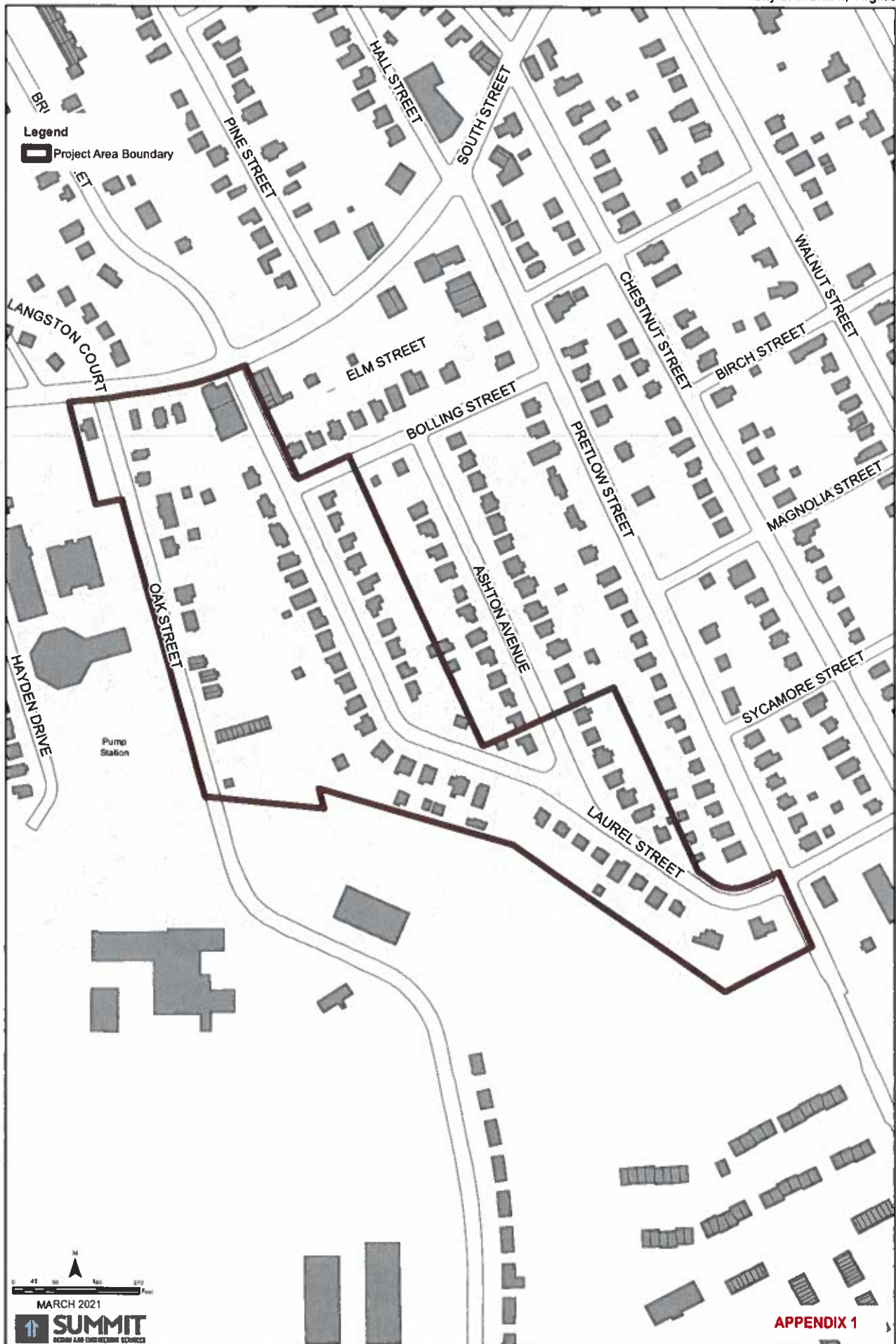
Similar to Laurel Street, it is assumed all laterals Oak Street will be CIPP lined. It is further assumed cleanouts are needed at both the R/W line and adjacent to the house. Each duplex along Oak Street is assumed to have one lateral; the apartment complex adjacent to the pump station is assumed to have up to ten (10) laterals.

Appendix 15 captures the costs for Phase 2 laterals as well as added costs for sidewalk, curb and gutter, curb ramps with detectable warning surfaces and milling and paving of the roadway.

**Preliminary Engineering Report
Laurel Street CDBG
City of Franklin, Virginia
March 2021**

APPENDICES

PROJECT AREA MAP
LAUREL STREET NEIGHBORHOOD
City of Franklin, Virginia



City of Franklin, Virginia

Legend

- City Boundary
- Structures
- Pump Stations
- Mains
- Gravity Main
- Force Main



Title: Laurel Street Sanitary Sewer System

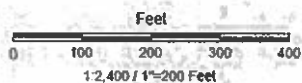
DISCLAIMER: This drawing is neither a legally recorded map nor a survey and is not intended to be used as such. The information displayed is a compilation of records information, and data obtained from various sources, and City of Franklin is not responsible for its accuracy or how current it may be.

APPENDIX 2-1

City of Franklin, Virginia

Legend

- Existing Cleanouts:
42 - Laurel St.
5 - Ashton Ave.
- Proposed Cleanouts:
40 - Laurel St.
1 - Ashton Ave.



Title: Existing and Proposed Cleanouts

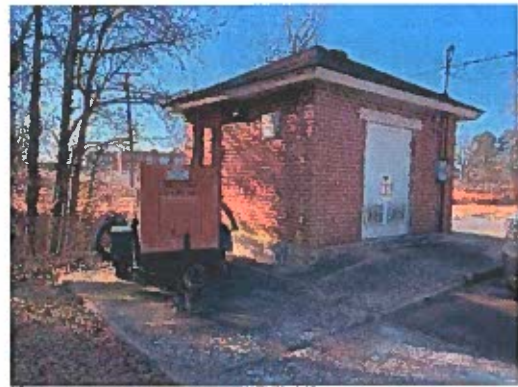
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APPENDIX 2-2

OAK STREET SANITARY FORCE MAIN AND PUMP STATION



Pump Station – North Face



Pump Station – West Face



Sanitary Force Main at Stream Crossing

City of Franklin, Virginia

Legend

- City Boundary
- ⬢ Hydrants
- Tanks
- Lateral Lines
- Mains

Recommended Items



Title: Laurel Street Water Service

DISCLAIMER: This drawing is neither a legally recorded map nor a survey and is not intended to be used as such. The information displayed is a compilation of records, information, and data obtained from various sources, and City of Franklin is not responsible for its accuracy or how current it may be.

APPENDIX 3

City of Franklin, Virginia

Legend

- City Boundary
- Structures
- Mains



Title: Laurel Street Storm Drainage System

Feet
0 100 200 300 400

DISCLAIMER: This drawing is neither a legally recorded map nor a survey and is not intended to be used as such. The information displayed is a compilation of records, information, and data obtained from various sources, and City of Franklin is not responsible for its accuracy or how current it may be.

APPENDIX 4

LAUREL STREET DROP INLETS



STR #4716 – 571 Laurel St



STR #4723 - 587 Laurel St.



STR #4722 - Corner of Laurel St. and Ashton Ave.



STR #4717 – 551/553 Laurel St.



STR #4719 – East Side, South St/Bolling St.



STR #4718 – 547 Laurel St.
(No Significant Damage)

APPENDIX 5

LOCATIONS FOR CURB RAMPS



NE Corner, Bolling Street Intersection



SE Corner, Bolling Street Intersection

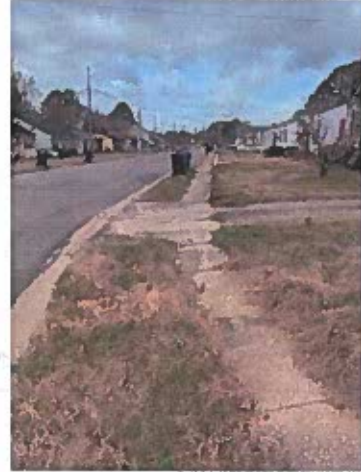


NW Corner, Pretlow Street Intersection



SW Corner, Pretlow Street Intersection

LAUREL STREET SIDEWALK



Existing Sidewalk Conditions



Tripping Hazard

APPENDIX 6-2

LAUREL STREET PAVEMENT CONDITIONS



Patching, Alligator Cracking and Potholes in Laurel Street



Pavement Settlement



Pavement Above Gutter Pan

Laurel Street Curb and Gutter



Cracked Curb and Gutter w/Differential Settlement



4" Roof Drain through Face of Curb



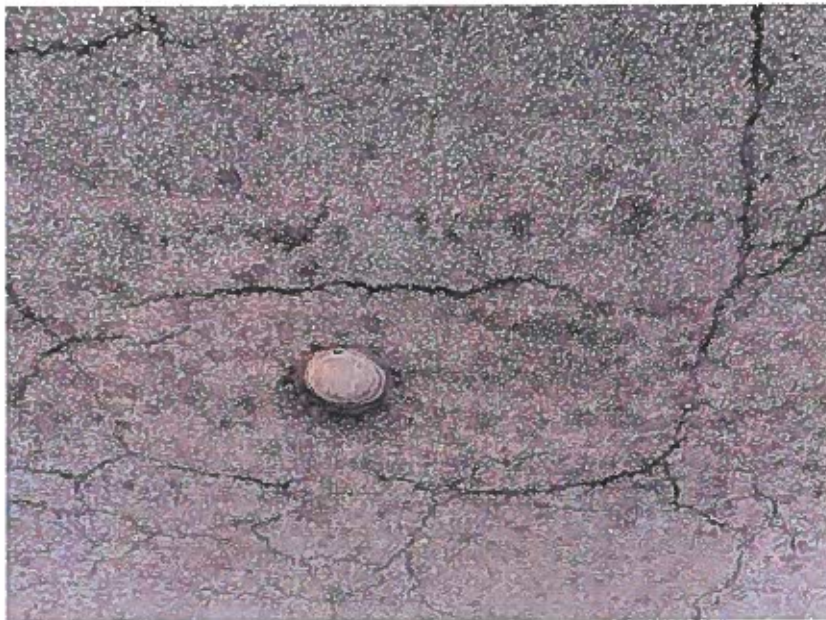
Low Spot, Differential Settlement

APPENDIX 7-2

MANHOLES, VALVES IN LAUREL STREET



Manhole Protruding Above Pavement



Water Valve Above Pavement

APPENDIX 7-3

City of Franklin, Virginia

Legend

- City Boundary
- FEMA Floodplain 2002



Feet
0 100 200 300 400

Title: Laurel Street FEMA Floodplain 2002

DISCLAIMER: This drawing is neither a legally recorded map nor a survey and is not intended to be used as such. The information displayed is a compilation of records, information, and data obtained from various sources, and City of Franklin is not responsible for its accuracy or how current it may be.

APPENDIX 8

City of Franklin, Virginia

Legend

Recommended Items



Title: Pedestrian Improvements - Recommended (Red)

DISCLAIMER: This drawing is neither a legally recorded map nor a survey and is not intended to be used as such. The information displayed is a compilation of records, information, and data obtained from various sources, and City of Franklin is not responsible for its accuracy or how current it may be.

APPENDIX 9-1

Feet
0 50 100 150 200
1" = 150 Feet

City of Franklin, Virginia

Legend

Recommended Items



Title: Pedestrian Improvements - Recommended (Red)

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APPENDIX 9-2

City of Franklin, Virginia

Legend

Recommended Items

Optional Items

Notes

Optional accessible curb ramps w/CG-12 required if optional sidewalk is installed.

If pedestrian crossing of Ashton Avenue is installed, change Yield sign to Stop sign and relocate before the crossing. Install a Stop Ahead sign on Ashton Avenue.



Title: Pedestrian Improvements - Recommended (Red) and Optional (Blue)

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APPENDIX 9-3

City of Franklin, Virginia

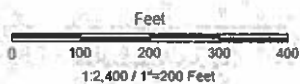
Legend

■ Building Footprints

Recommended

Optional Items

Note - Replacing Yield Sign with Stop Sign and adding Stop Ahead Sign required if crosswalk is installed on Ashton Avenue.



Title: Sign Relocations, Installations

DISCLAIMER: This drawing is neither a legally recorded map nor a survey and is not intended to be used as such. The information displayed is a compilation of records, information, and data obtained from various sources, and City of Franklin is not responsible for its accuracy or how current it may be.

Appendix 10

City of Franklin, Virginia

Legend

Recommended Items

Reconstruct Curb
Returns w/25' face of
curb radii

Reconstruct damaged and
settled C&G segments.

Reconstruct damaged and
settled C&G segments.

Reconstruct C&G to
provide positive
drainage

Feet
0 50 100 150 200
1" = 150 Feet

Title: Laurel Street Curb and Gutter Reconstruction, South Street to Ashton Avenue

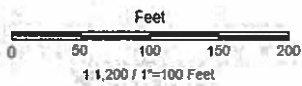
DISCLAIMER: This drawing is neither a legally recorded map nor a survey and is not intended to be used as such. The information displayed is a compilation of records, information, and data obtained from various sources, and City of Franklin is not responsible for its accuracy or how current it may be.

APPENDIX 11-1

City of Franklin, Virginia

Legend

Recommended Items



Title: Laurel Street Curb and Gutter Reconstruction, Ashton Avenue to Pretlow Street

DISCLAIMER: This drawing is neither a legally recorded map nor a survey and is not intended to be used as such. The information displayed is a compilation of records, information, and data obtained from various sources, and City of Franklin is not responsible for its accuracy or how current it may be.

APPENDIX 11-2

COST ESTIMATE SUMMARY

		Option 1	Option 2	Option 3	Option 4
Sub-Total, Standard Items Construction Costs	\$ 745,887.00	\$ 745,887.00	\$ 745,887.00	\$ 745,887.00	\$ 745,887.00
Repair Sidewalk	\$ 11,011.00	\$ 11,011.00	\$ 11,011.00		
Repair Curb & Gutter	\$ 46,303.00	\$ 46,303.00		\$ 46,303.00	
Replace All Sidewalk	\$ 36,036.00			\$ 36,036.00	\$ 36,036.00
Replace All Curb & Gutter	\$ 106,703.00		\$ 106,703.00		\$ 106,703.00
Storm Sewer - CIPP Lining	\$ 298,675.00	\$ 298,675.00	\$ 298,675.00	\$ 298,675.00	\$ 298,675.00
Storm Sewer - Replace	\$ 371,815.00				
Sub-Total, Construction Costs		\$ 1,101,876.00	\$ 1,162,276.00	\$ 1,126,901.00	\$ 1,187,301.00

Other Construction Costs

Percentage Rate Based Items	Unit	Est. Qty	Percent of Constrxn Costs	Ext. Price	Ext. Price	Ext. Price	Ext. Price
Clearing & Grubbing, Demo	LS	1	3%	\$ 33,056.28	\$ 34,868.28	\$ 33,807.03	\$ 35,619.03
Maintenance of Traffic	LS	1	8%	\$ 88,150.08	\$ 92,982.08	\$ 90,152.08	\$ 94,984.08
Erosion & Sediment Control	LS	1	5%	\$ 55,093.80	\$ 58,113.80	\$ 56,345.05	\$ 59,365.05
Engineering	LS	1	10%	\$ 110,187.60	\$ 116,227.60	\$ 112,690.10	\$ 118,730.10
Inspection	LS	1	6%	\$ 66,112.56	\$ 69,736.56	\$ 67,614.06	\$ 71,238.06
Sub-Total, Other Construction Costs				\$ 352,600.32	\$ 371,928.32	\$ 360,608.32	\$ 379,936.32
Total Construction Estimate, Each Option				\$ 1,454,476.32	\$ 1,534,204.32	\$ 1,487,509.32	\$ 1,567,237.32
Sub-Total, Easement Costs				\$ 35,428.43	\$ 35,428.43	\$ 35,428.43	\$ 35,428.43
Sub-Total, Milling and Paving				\$ 81,176.00	\$ 81,176.00	\$ 81,176.00	\$ 81,176.00

Total Constr Est, Each Option w/Easements and Milling

& Paving	\$ 1,535,652.32	\$ 1,615,380.32	\$ 1,568,685.32	\$ 1,648,413.32
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COST ESTIMATE SUMMARY

		Option 5	Option 6	Option 7	Option 8
Sub-Total, Standard Items Construction Costs	\$ 967,429.00	\$ 745,887.00	\$ 745,887.00	\$ 745,887.00	\$ 745,887.00
Repair Sidewalk	\$ 11,011.00	\$ 11,011.00	\$ 11,011.00		
Repair Curb & Gutter	\$ 46,303.00	\$ 46,303.00		\$ 46,303.00	
Replace All Sidewalk	\$ 36,036.00			\$ 36,036.00	\$ 36,036.00
Replace All Curb & Gutter	\$ 106,703.00		\$ 106,703.00		\$ 106,703.00
Storm Sewer - CIPP Lining	\$ 563,815.00				
Storm Sewer - Replace	\$ 371,815.00	\$ 371,815.00	\$ 371,815.00	\$ 371,815.00	\$ 371,815.00
Sub-Total, Construction Costs		\$ 1,175,016.00	\$ 1,235,416.00	\$ 1,200,041.00	\$ 1,260,441.00

Other Construction Costs

Percentage Rate Based Items	Unit	Est. Qty	% of Constr. Costs	Ext. Price	Ext. Price	Ext. Price	Ext. Price
Clearing & Grubbing, Demo	LS	1	3%	\$ 35,250.48	\$ 37,062.48	\$ 36,001.23	\$ 37,813.23
Maintenance of Traffic	LS	1	8%	\$ 94,001.28	\$ 98,833.28	\$ 96,003.28	\$ 100,835.28
Erosion & Sediment Control	LS	1	5%	\$ 58,750.80	\$ 61,770.80	\$ 60,002.05	\$ 63,022.05
Engineering	LS	1	10%	\$ 117,501.60	\$ 123,541.60	\$ 120,004.10	\$ 126,044.10
Inspection	LS	1	6%	\$ 70,500.96	\$ 74,124.96	\$ 72,002.46	\$ 75,626.46
Sub-Total, Other Construction Costs				\$ 376,005.12	\$ 395,333.12	\$ 384,013.12	\$ 403,341.12
Total Construction Estimate, Each Option				\$ 1,551,021.12	\$ 1,630,749.12	\$ 1,584,054.12	\$ 1,663,782.12
Sub-Total, Easement Costs				\$ 35,428.43	\$ 35,428.43	\$ 35,428.43	\$ 35,428.43
Sub-Total, Milling and Paving				\$ 81,176.00	\$ 81,176.00	\$ 81,176.00	\$ 81,176.00

Total Constr Est, Each Option w/Easements and Milling

& Paving	\$ 1,632,197.12	\$ 1,711,925.12	\$ 1,665,230.12	\$ 1,744,958.12
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COST ESTIMATE SUMMARY

Alternative & Other Costs

Add Sidewalk, Ashton to Pretlow				\$	13,463.00
Clearing & Grubbing, Demo	LS	1	3%	\$	403.89
Maintenance of Traffic	LS	1	8%	\$	1,077.04
Erosion & Sediment Control	LS	1	5%	\$	673.15
Engineering	LS	1	10%	\$	1,346.30
Inspection	LS	1	6%	\$	807.78
Sub-Total, Added Sidewalk from Ashton Ave to Pretlow St					\$ 17,771.16

Replace Entrances				\$	46,720.00
Clearing & Grubbing, Demo	LS	1	3%	\$	1,401.60
Maintenance of Traffic	LS	1	8%	\$	3,737.60
Erosion & Sediment Control	LS	1	5%	\$	2,336.00
Engineering	LS	1	10%	\$	4,672.00
Inspection	LS	1	6%	\$	2,803.20
Sub-Total, Replace Entrances					\$ 61,670.40

Milling & Paving				\$	65,465.00
Maintenance of Traffic	LS	1	8%	\$	5,237.20
Engineering	LS	1	10%	\$	6,546.50
Inspection	LS	1	6%	\$	3,927.90
Sub-Total, Milling and Paving					\$ 81,176.60

STANDARD ITEMS COSTS

Sanitary System Improvements

Sanitary Force Main	Unit	Estimated Quantity	Unit Price	Ext. Price
6" DIP	LF	278	\$ 247.00	\$ 68,666.00
6" DIP-RJ	LF	120	\$ 371.00	\$ 44,520.00
18" Jack & Bore Casing	LF	116	\$ 300.00	\$ 34,800.00
Temp. Pump Around	LS	1	\$ 20,500.00	\$ 20,500.00
Flowable Fill	CY	8.5	\$ 500.00	\$ 4,250.00
Sub-Total, Force Main Replacement				\$ 172,736.00

Sanitary Laterals	Unit	Estimated Quantity	Unit Price	Ext. Price
4" Lateral, Repl.	LF	0	\$ 450.00	\$ -
6" Lateral, Repl.	LF	0	\$ 425.00	\$ -
4" Lateral, CIPP Lining	LF	1000	\$ 175.00	\$ 175,000.00
6" Lateral, CIPP Lining	LF	1000	\$ 175.00	\$ 175,000.00
4" Cleanout (Rigid Coupling, Wye, Elbow, Riser, Cap)	EA	20	\$ 2,000.00	\$ 40,000.00
6" Cleanout (Rigid Coupling, Wye, Elbow, Riser, Cap)	EA	20	\$ 2,000.00	\$ 40,000.00
Cleanout, F&C (Std. SS_11)	EA	40	\$ 29.00	\$ 1,160.00
#57 Stone	Tons	1.2	\$ 130.00	\$ 156.00
Sewer Inspection	Ea	0	\$ 200.00	\$ -
Sub-Total, Sanitary Lateral Improvements				\$ 431,316.00

Water Service Improvements

Fire Hydrant	Unit	Estimated Quantity	Unit Price	Ext. Price
Furnish, Install Fire Hydrant Assembly	EA	1	\$ 6,500.00	\$ 6,500.00
Sub-Total, Furnish & Install Fire Hydrant				\$ 6,500.00

Replace Storm Inlets

Replace Storm Drain Inlets	Unit	Estimated Quantity	Unit Price	Ext. Price
Curb Inlet, VDOT Std DI-3A	EA	5	\$ 5,663.00	\$ 28,315.00
Sub-Total, Replace Storm Inlets				\$ 28,315.00

STANDARD ITEMS COSTS

Incidental Concrete

Reconstruct Curb Returns	Unit	Estimated Quantity	Unit Price	Ext. Price
Demo and Grade	LS	1	\$ 2,000.00	\$ 2,000.00
Curb & Gutter, Radial, Match Existing (R≤300')	LF	79	\$ 35.00	\$ 2,765.00
4" Curb Ramp	SY	32	\$ 45.00	\$ 1,440.00
Detectable Warning Surface, VDOT Stc	SY	3.6	\$ 750.00	\$ 2,700.00
Sub-Total, Incidental Concrete				\$ 4,765.00

Relocate Stop Sign

Relocate Stop Sign - Bolling Street	Unit	Estimated Quantity	Unit Price	Ext. Price
Rel. Ex. 1 Post Grnd Mount Sign	EA	1	\$ 400.00	\$ 400.00
Sub-Total, Relocate Stop Sign				\$ 400.00

Pavement Repair

Construct 21B Subbase, BM-25.0A Base	Unit	Estimated Quantity	Unit Price	Ext. Price
Aggregate, 21B	Tons	6.1	\$ 150.00	\$ 915.00
Asphalt Patching, Ty. BM-25.0A	Tons	4.7	\$ 200.00	\$ 940.00
Sub-Total, Paving				\$ 1,855.00

Miscellaneous Construction

Other Items	Unit	Estimated Quantity	Unit Price	Ext. Price
Mobilization	LS	1	\$ 60,000.00	\$ 60,000.00
Construction Surveying	LS	1	\$ 35,000.00	\$ 35,000.00
Erosions & Sediment Control	LS	1	\$ 5,000.00	\$ 5,000.00
Sub-Total, Misc. Construction				\$ 100,000.00

Sub-Total, Standard Items Construction Costs \$ 745,887.00

STANDARD ITEMS COSTS

Other Construction Costs

Percentage Rate Based Items	Unit	Estimated Quantity	% of Constr. Costs
Clearing & Grubbing, Demo	LS	1	3%
Maintenance of Traffic	LS	1	8%
Erosion & Sediment Control	LS	1	5%
Engineering	LS	1	10%
Inspection	LS	1	6%

OPTIONS COSTS

Paving

Mill and Replace Asphalt	Unit	Estimted Quantity	Unit Price	Ext. Price
Flex. Pavement Planing	SY	6785	\$ 1.75	\$ 11,873.75
Adjust Utility Boxes and Manholes	LS	1	\$ 5,000.00	\$ 5,000.00
Asph. Conc. Ty. SM-9.5A	Tons	565	\$ 86.00	\$ 48,590.00
Sub-Total, Milling & Paving				\$ 65,463.75

Other Construction Costs for Milling & Paving

Percentage Rate Based Items	Unit	Estimted Quantity	% of Constr. Costs	Unit Price
Clearing & Grubbing, Demo	LS	0	3%	\$ -
Maintenance of Traffic	LS	1	8%	\$ 5,237.10
Erosion & Sediment Control	LS	0	5%	\$ -
Engineering	LS	1	10%	\$ 6,546.38
Inspection	LS	1	6%	\$ 3,927.83
Sub-Total, Other Costs for Milling & Paving				\$ 15,711.30
Sub-Total, Milling & Paving				\$ 81,175.05

Repair Sidewalk

Repair Sidewalk	Unit	Estimted Quantity	Unit Price	Ext. Price
Demolish, Remove 4" Conc. Sidewalk	SY	143	\$ 34.00	\$ 4,862.00
4" Conc. Sidewalk	SY	143	\$ 43.00	\$ 6,149.00
Sub-Total, Repair Sidewalk				\$ 11,011.00

Repair Curb & Gutter

Repair Curb & Gutter	Unit	Estimted Quantity	Unit Price	Ext. Price
Aggregate Base #21-B, 2-1/2" Depth	Tons	30.6	\$ 150.00	\$ 4,590.00
Demolish, Remove Conc. Curb & Gutte	LF	1336	\$ 14.00	\$ 18,704.00
Curb & Gutter, Match Existing	LF	1173	\$ 21.00	\$ 24,633.00
Sub-Total, Repair Curb & Gutter				\$ 47,927.00

OPTIONS COSTS

Replace All Sidewalk

Replace All Sidewalk	Unit	Estimated		Ext. Price
		Quantity	Unit Price	
Demolish, Remove 4" Conc. Sidewalk	SY	468	\$ 34.00	\$ 15,912.00
4" Conc. Sidewalk	SY	468	\$ 43.00	\$ 20,124.00
Sub-Total, Replace All Sidewalk				\$ 36,036.00

Replace All Curb & Gutter

Replace All Curb & Gutter and Entrances	Unit	Estimated		Ext. Price
		Quantity	Unit Price	
Aggregate Base #21-B, 2-1/2" Depth	Tons	68.8	\$ 150.00	\$ 10,320.00
Demolish, Remove Conc. Curb & Gutter	LF	2647	\$ 14.00	\$ 37,058.00
Reconstruct Curb & Gutter	LF	2380	\$ 21.00	\$ 49,980.00
Reconstruct Radial Curb & Gutter	LF	267	\$ 35.00	\$ 9,345.00
Sub-Total, Replace All Curb & Gutter				\$ 106,703.00

Replace All Entrances

Replace All Curb & Gutter and Entrances	Unit	Estimated		Ext. Price
		Quantity	Unit Price	
Demolish, Remove Existing Entrances	Ea	40	\$ 34.00	\$ 1,360.00
Reconstruct Entrances, Std. CG-9B	Ea	40	\$ 1,134.00	\$ 45,360.00
Sub-Total, Replace All Entrances				\$ 46,720.00

Add Sidewalk from Ashton Ave to Pretlow St

Construct New Sidewalk	Unit	Estimated		Ext. Price
		Quantity	Unit Price	
4" Conc. Sidewalk	SY	196	\$ 43.00	\$ 8,428.00
4" Curb Ramp	SY	16	\$ 45.00	\$ 720.00
Detectable Warning Surface, VDOT Std	SY	1.8	\$ 750.00	\$ 1,350.00
Remove, Dispose Yield Sign	EA	1	\$ 400.00	\$ 400.00
Install Stop Sign (Panel, Post, Base)	EA	1	\$ 1,265.00	\$ 1,265.00
Install Stop Ahead Sign (Panel, Post, Base)	EA	1	\$ 1,300.00	\$ 1,300.00
Subtotal - Added Sidewalk Construction				\$ 13,463.00

OPTIONS COSTS

Storm Sewer Improvements - CIPP Lining

Relining	Unit	Estimated Quantity	Unit Price	Ext. Price
12" CIPP Lining	LF	480	\$ 122.00	\$ 58,560.00
42" CIPP Lining	LF	204	\$ 450.00	\$ 91,800.00
48" CIPP Lining	LF	240	\$ 500.00	\$ 120,000.00
Curb Inlet, VDOT Std DI-3A	EA	5	\$ 5,663.00	\$ 28,315.00
Sub-Total, Storm Sewer Improvements - CIPP Lining				\$ 298,675.00

Storm Sewer Improvements - Replacement

Replacement (Open Cut)	Unit	Estimated Quantity	Unit Price	Ext. Price
12"	LF	480	\$ 160.00	\$ 76,800.00
42"	LF	204	\$ 425.00	\$ 86,700.00
48"	LF	240	\$ 750.00	\$ 180,000.00
Curb Inlet, VDOT Std DI-3A	EA	5	\$ 5,663.00	\$ 28,315.00
Sub-Total, Storm Sewer Improvements - Replacement				\$ 371,815.00

EASEMENT ACQUISITION ESTIMATE

Easement Acquisition Estimate Costs

Easement width, 20 ft. Total (10 ft. from C/L of pipe
Assume easement extends 10 ft. beyond the end of pipe
Assume temporary easement value is 1/2 total value

Tax Map Parcel	Land Value, Total	Acreage, Total	\$\$/SQ. FT.	Est. Esmt. Area, SQ. FT.	Esmt. Est. Value
<u>Sanitary Sewer Easements</u>					
138-90-39	\$ 26,600.00	0.305	\$ 2.00	2,396	\$ 4,797.12
139-91-39, 40	\$ 8,800.00	0.201	\$ 1.01	3,589	\$ 3,607.22
138-90-39 (T)	\$ 26,600.00	0.305	\$ 2.00	2,967	\$ 2,970.17
139-91-37, 38 (T)	\$ 9,000.00	0.207	\$ 1.00	3,725	\$ 1,859.01
Sub-Total, Permanent Easement Costs - Sanitary					\$ 8,404.34
Sub-Total, Temporary Easement Costs - Sanitary					\$ 4,829.18
Sub-Total, Easement Costs - Sanitary					\$ 13,233.51
<u>Storm Sewer Easements</u>					
138-91-63	\$ 51,000.00	0.390	\$ 3.00	2,118	\$ 6,358.34
138-90-30	\$ 10,200.00	0.233	\$ 1.00	3,312	\$ 3,328.49
138-90-31	\$ 15,400.00	0.353	\$ 1.00	1,410	\$ 1,412.14
138-91-61, 62	\$ 7,500.00	0.172	\$ 1.00	128	\$ 128.13
138-90-31A, 32	\$ 11,900.00	0.273	\$ 1.00	569	\$ 569.39
139-91-54A, 55	\$ 9,800.00	0.224	\$ 1.00	1,946	\$ 1,954.49
139-91-37, 38	\$ 9,000.00	0.207	\$ 1.00	3,708	\$ 3,701.04
138-90-39	\$ 26,600.00	0.305	\$ 2.00	100	\$ 200.21
139-91-23	\$ 7,800.00	0.179	\$ 1.00	1,785	\$ 1,785.63
139-91-24	\$ 6,500.00	0.149	\$ 1.00	683	\$ 684.01
139-91-12	\$ 6,500.00	0.149	\$ 1.00	1,656	\$ 1,658.44
139-91-11	\$ 6,500.00	0.149	\$ 1.00	414	\$ 414.61
Sub-Total, Permanent Easement Costs - Storm Sewer					\$ 22,194.91
Total, Easement Cost					\$ 35,428.43

APPENDIX 13

PROJECT AREA MAP
LAUREL STREET NEIGHBORHOOD
City of Franklin, Virginia



PHASING COSTS

PHASE-2 COSTS

Item	Units	Quantity	Unit Cost	Total Cost
Sanitary Lateral Improvements				
4" Lateral, CIPP Lining	LF	1,300	\$ 175.00	\$ 227,500.00
4" Cleanout (Rigid Coupling, Wye, Elbow, Riser, Cap)	EA	20	\$ 2,000.00	\$ 40,000.00
Cleanout, F&C (Std. SS_11)	EA	20	\$ 29.00	\$ 580.00
#57 Stone	Tons	1	\$ 130.00	\$ 78.00
Subtotal				\$ 268,158.00
Engineering	LS	1	10%	\$ 26,815.80
Inspection	LS	1	6%	\$ 16,089.48
				\$ 311,063.28

OAK STREET PUBLIC FACILITY COSTS

Item	Units	Quantity	Unit Cost	Total Cost
Mill and Replace Asphalt				
Flex. Pavement Planing	SY	3,950	\$ 1.75	\$ 6,912.50
Adjust Utility Boxes and Manholes	LS	1	\$ 5,000.00	\$ 5,000.00
Asph. Conc. Ty. SM-9.5A	Tons	326	\$ 86.00	\$ 28,036.00
Base, Subgrade Repair @ 10% of Milling & Asphalt Cost	LS	1	10%	\$ 3,494.85
Subtotal				\$ 39,948.50
Repair Curb & Gutter				
Aggregate Base #21-B, 2-1/2" Depth	Tons	20	\$ 150.00	\$ 3,000.00
Demolish, Remove Conc. Curb & Gutter	LF	760	\$ 14.00	\$ 10,640.00
Curb & Gutter, Match Existing	LF	760	\$ 21.00	\$ 15,960.00
Subtotal				\$ 29,600.00

APPENDIX 15

PHASING COSTS

OAK STREET PUBLIC FACILITY COSTS, Cont'd

Repair Sidewalk					
Demolish, Remove 4" Conc. Sidewalk	SY	150	\$	34.00	\$ 5,100.00
4" Conc. Sidewalk	SY	150	\$	43.00	\$ 6,450.00
Subtotal					\$ 11,550.00
Incidental Concrete					
4" Curb Ramp	SY	16	\$	45.00	\$ 720.00
Detectable Warning Surface, VDOT Std. CG-12	SY	1.8	\$	750.00	\$ 1,350.00
Subtotal					\$ 2,070.00
Miscellaneous					
Mobilization	LS	1	\$	15,000.00	\$ 15,000.00
Subtotal					\$ 15,000.00
Subtotal, Oak Street Public Facility Costs					\$ 98,168.50

Other Construction Costs

Percentage Rate Based Items	Unit	Estimated Quantity	% of Constr. Costs		
Maintenance of Traffic	LS	1	8%	\$	7,853.48
Engineering	LS	1	10%	\$	9,816.85
Inspection	LS	1	6%	\$	5,890.11
Subtotal				\$	23,560.44
Total, Oak Street Public Facility Costs				\$	121,728.94

APPENDIX 15