

II INSTRUCTIONS TO BIDDERS

1. Bid Documents

- 1.1. Complete sets of Bid Documents shall be used in preparing Bids. Neither the Owner nor the Engineer assumes any responsibility for errors or misinterpretations resulting from the use of incomplete sets of Bid Documents.
- 1.2. The Owner, in making copies of the Bid Documents available on the above terms does so only for the purpose of obtaining Bids on the Work and does not confer or license or grant permission for any other use.
- 1.3. The Special Provisions for this Project as set forth in Section 110 were prepared by the C. Allan Bamforth Jr. Engineer - Surveyor, Ltd. and are dated **November 1, 2007**. Additional Special Provisions for this Project appear as modifications to the HRPDC *Regional Construction Standards* by strike-throughs for deletions and bold type for additions in Sections 100 through 109.
- 1.4. The Drawings for this Project, prepared by the C. Allan Bamforth Jr. Engineer - Surveyor, Ltd. and dated **November 1, 2007**, are defined as follows:

<u>Sheet No.</u>	<u>Description</u>
T-1	Title Sheet
T-2	Key Plan of Existing Conditions
T-3	Key Plan/Pavement Plan
C-1	Legend, Notes and Property Information
C-2	Erosion and Sediment Control Notes and Details
C-3	Existing Condition/Demolition Plan
C-4	Existing Condition/Demolition Plan
C-5	Existing Condition/Demolition Plan
C-6	Existing Condition/Demolition Plan
C-7	Existing Condition/Demolition Plan
C-8	Existing Condition/Demolition Plan
C-9	Existing Condition/Demolition Plan
C-10	8-Inch Water Line - Plan and Profile
C-11	8-Inch Water Line - Plan and Profile
C-12	8-Inch Water Line - Plan and Profile
C-13	16-Inch Water Line - Plan and Profile
C-14	16-Inch Water Line - Plan and Profile
C-15	16-Inch Water Line - Plan and Profile
C-16	16-Inch Water Line - Plan and Profile
C-17	16-Inch Water Line - Plan and Profile
C-18	16-Inch Water Line - Plan and Profile
C-19	6-Inch Water Line - Plan and Profile
C-20	House Connection Plans
C-21	House Connection Plans
C-22	House Connection Plans
C-23	Tree Protection Notes and Details
C-24	Details
C-25	Details and Meter Table
C-26	Details

2. Examination of Contract Documents and Project Site.

2.1. It is the responsibility of each Bidder before submitting a Bid:

- A. to examine thoroughly the Bid Documents;
- B. to visit the site to become familiar with and satisfy the Bidder as to the general, local and site conditions that may affect cost, progress, performance, or furnishing of the Work;
- C. to study and carefully correlate the Bidder's knowledge and observations with the Bid Documents and such other related data; and,
- D. to promptly notify the Owner of all conflicts, errors, ambiguities or discrepancies which the Bidder has discovered in or between the Bid Documents and such other related documents or field/site conditions.

2.2 Reference is made to Sections 104 III and 104 IV, for information relating to reports, explorations, underground facilities, and easements. On request, at the discretion of the Owner, the Owner will provide each Bidder access to the site to conduct such examinations, investigations, explorations, tests and studies as each Bidder deems necessary for submission of a Bid. The Bidder shall fill all holes and clean up and restore the site to its former condition, including reseeding and/or resodding any disturbed areas upon completion of such explorations, investigations, tests and studies, and hold the Owner harmless from any damage to property or injury to persons resulting from or arising out of such exploration, investigation, tests, and studies. The Bidder shall obtain and comply with all local and state permitting requirements.

3. Interpretations and Addenda.

3.1. No oral explanation in regard to the meaning of the Contract Documents will be made, and no oral instructions will be given before the award of the Work. Discrepancies, omissions or doubts as to the meaning of the Contract Documents shall be communicated in writing to the Owner for interpretation. Bidders should act promptly and allow sufficient time for a reply to reach them before the submission of their Bids. Any interpretation made will be in the form of an addendum to the Contract Documents, which will be forwarded to all Bidders, and its receipt shall be acknowledged on the Bid Form. All questions shall be received no later than 7 days prior to the date for opening of Bids.

3.2. Addenda may also be issued to modify the Contract Documents.

4. Bid Security.

4.1. Each bid shall be accompanied by a Bidder's bond issued by a company authorized and licensed to transact business as surety in the Commonwealth of Virginia, a certified check, or cash escrow, in an amount equal to not less than five (5) percent of the total amount of the bid, made payable to the City of Norfolk, Virginia. Upon approval of the Owner's attorney, in accordance with Section 2.2-4338, Code of Virginia, 1950, as amended, a Bidder may furnish a personal bond, property bond, or bank or savings and loan association's letter of credit on certain designated funds for the amount required for the Bid Security. The Bid Security shall be accompanied by a certified copy of the power of attorney for the surety attorney-in-fact. Said bid security shall be left with the Owner, subject to the conditions specified herein, as a guarantee of good faith on the part of the Bidder that

if the bid is accepted, the Bidder shall execute the contract. **If a certified check is offered as guarantee, it shall be made payable to the 'City Treasurer of Norfolk, VA.'**

- 4.2. The Bid Security shall be returned to all except the three (3) lowest Bidders within ten (10) days after the date of Bid opening. The Bid Security will be returned to the three (3) lowest Bidders within five (5) days after the execution of an Agreement and Performance and Payment Bonds and Certificates of Insurance have been approved by the Owner. None of the three (3) lowest Bids shall be deemed rejected, notwithstanding acceptance of one of the Bids, until the Agreement has been executed by both the Owner and the Successful Bidder.

5. Liquidated Damages.

- 5.1. Provisions for liquidated damages are set forth in Section 108-X and in Section 102 III (Bid Form).

6. Preparation of Bid.

- 6.1. All blanks on the Bid Form shall be **legibly and carefully** completed in ink.
- 6.2. Bids by corporations shall be executed in the corporate name by the president or a vice-president (or other corporate officer accompanied by evidence of authority to sign) and attested by the secretary or an assistant secretary. The corporate address and state of incorporation shall be shown below the signature.
- 6.3. Bids by unincorporated organizations shall be executed in the organization's name and signed by an individual having authority to enter into a contract on behalf of such organization, whose title shall appear under the signature and the official address of the organization shall be shown below the signature. For example, if such organization is a Limited Liability Company, the Bid shall be signed by its manager, or if such organization is a Limited Partnership, the Bid shall be signed by a general partner.
- 6.4. All names shall be typed or printed in ink below the signature. All names shall be the legal name of the corporation, unincorporated organization and/or individual.
- 6.5. The Bid shall contain an acknowledgment of receipt of all Addenda (the numbers of which shall be filled in on the Bid Form).
- 6.6. The address, telephone number, e-mail address and fax number for communications regarding the Bid shall be provided.
- 6.7. It is understood and agreed that, in the event an Agreement is executed for the supplies, equipment or services included in the Bid, no indication of such sales or services to the Owner shall be used in any way in product literature or advertising without the written consent of the Owner.

7. Quantities and Unit Prices.

- 7.1. The Owner reserves the right to increase or decrease the amount of any class or portion of the Work. No such change in the Work shall be considered as a waiver of any condition of the Agreement nor shall such change invalidate any of the provisions thereof. Payment will be made at the unit or lump sum prices under the Agreement only for the work actually performed or materials furnished and accepted.

7.2 Bidders shall include in their Bid prices the entire cost of each item set forth in the Bid, and it is understood and agreed that there is included in each lump sum or unit price bid item the entire cost necessary or incidental to the completion of that portion of the work, unless such incidental work is expressly included in other lump sum or unit price bid items.

8. General Equipment or Material Specification.

8.1. When the Bid Documents specify one or more manufacturer's brand names or makes of materials, devices or equipment as indicating a quality, style, appearance or performance, with the statement "or equal," the Bidder shall base the Bid on either one of the specified brands or an alternate brand which the Bidder intends to substitute. Use of an alternate shall not be permitted unless it has been found to be equal or better by the Owner and at no additional cost to the Owner.

8.2. The burden of proof as to the comparative quality and suitability of alternative equipment, articles or materials shall be upon the Bidder. The Bidder shall furnish at its own expense, such information relating thereto as may be required by the Owner. The Owner shall be the sole judge as to the comparative quality and suitability of alternative equipment, articles or materials and the Owner's decisions shall be final. Any other brand, make or material, device or equipment which, in the opinion of the Owner is recognized to be the equal of that specified, considering quality, workmanship and economy of operation and is suitable for the purpose intended, shall be accepted. In the event of any adverse decision by the Owner, no claim of any sort shall be made or allowed against the Engineer or Owner. Samples, if requested by the Bidder, may be returned at the Bidder's expense.

9. Proprietary Material and Equipment Specification.

9.1 Where any item of equipment or material is specified by proprietary name, trade name, catalog reference, or name of one or more manufacturers, without the addition of such expressions as "or equal," it is to be understood that those items are so specified for reasons of standardization in maintenance and operation, or for reasons of obtaining desirable features best suited to the requirements of the Specifications. This specific equipment shall form the basis of the Bid and be furnished under the Agreement. Where two or more items of equipment or material are named, the Contractor has the option to use either.

10. Alternate Bids.

10.1. If alternate Bids are requested for a portion of all of the Work due to the character of the improvement and uncertainties which may be encountered during construction, Bidders shall submit alternate Bids on all items as shown on the Bid Form. Alternate bids shall be considered in the order listed in the Bid Form and in accordance with criteria defined in the Special Provisions.

10.2. Award shall be based on the lowest responsive and responsible bid for base bid plus alternatives selected.

11. Submission of Bids.

11.1. Bids shall be submitted at the time and place indicated in the Invitation for Bids and shall be sealed, marked with the Project title and name and address of the Bidder, and accompanied by the bid guarantee and other required documents. The Bid may not be changed by markings on the envelope. Only the amounts indicated on the Bid Form will be considered in determining the final Bid amount.

- 11.2. When a license is required, the Bidder shall include in its Bid over the Bidder's signature the following notation: "VIRGINIA LICENSED CONTRACTOR NO. _____" (Ref. Title 2.2, Chapter 43, Code of Virginia).
- 11.3. When a license is not so required and a person who is not the holder of a License enters a Bid, such person shall include in its Bid over the Bidder's signature the following notation: "LICENSING NOT REQUIRED UNDER VIRGINIA STATE CODE."

12. Receipt and Opening of Bids.

- 12.1. Bids will be opened publicly at the time and place and under the conditions stated in the Invitation for Bids. The Owner's Representative whose duty it is to open Bids will decide when the specified time has arrived. No responsibility will be attached to any such person for the premature opening of a Bid not properly addressed and identified. It is the responsibility of the Bidder to assure that the Bid is delivered to the designated place of receipt prior to the time set for the receipt of Bids. No Bid received after the time designated for receipt will be considered.
- 12.2. Bids will be opened and read aloud publicly. **Bidders are especially requested to be present at the opening of bids.**

13. Bids to Remain Subject to Acceptance.

- 13.1. All Bids shall remain subject to acceptance for 90 Days after the day of the Bid opening, but the Owner may, in its sole discretion, release any Bid and return the Bid Security prior to that date, or extend the acceptance period an additional 90 days with the consent of the apparent low bidder and surety.

14. Withdrawal of Bids.

- 14.1. Withdrawal of proposal filed with the Owner may be made only by a representative of the firm submitting the Bid, who shall appear in person prior to the time designated in the advertisement for receipt of Bids. Such representative shall furnish satisfactory identification and proof that they are authorized to make changes. Telegraphic or facsimile notices will not be considered. Additions and/or deletions marked on the outside of the Bid envelope will not be considered.
- 14.2. If the Bid price was substantially lower than the other Bids solely to a mistake therein, provided the Bid was submitted in good faith, and the mistake was a clerical mistake as opposed to a judgment mistake, as 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 and provided further the Bidder shall give notice in writing of his claim of right to withdraw two (2) business days after the conclusion of the Bid opening procedure, then the Bid may be withdrawn.
- 14.3. Should the Bidder refuse to enter into the Agreement after notification of award, the Bid Security shall be forfeited.

- 14.4 No Bid may be withdrawn under this section when the result would be the awarding of the Agreement on another Bid to the same Bidder or to another Bidder in which the ownership of the withdrawing Bidder is more than five percent.
- 14.5 If a Bid is withdrawn under the authority of this section, the remaining Bids shall be evaluated to determine the lowest responsive and responsible Bidder.
- 14.6 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 awarded, or otherwise benefit, directly or indirectly, from the performance of the Project for which the withdrawn Bid was submitted.
- 14.7 If withdrawal of any Bid is denied, the Bidder shall be notified in writing stating the reasons for this decision. Any Bidder who desires to appeal a decision denying withdrawal of Bid shall, as sole remedy, institute legal action provided by Section 2.2-4358 and Section 2.2-4364(B), Code of Virginia, 1950, as amended.

15. Evaluation of Bids.

- 15.1. In evaluating Bids, the Owner shall consider the qualifications of the Bidders, whether or not the Bids comply with the prescribed requirements, unit and lump sum prices, and alternates if requested in the Bid Form.
- 15.2. The Owner may consider the qualifications and experience of subcontractors and other persons and organizations (including those who are to furnish the principal items of material or equipment) proposed for those portions of the Work for which the identity of Subcontractors and other persons and organizations shall be submitted as specified in the Bid Documents.
- 15.3. The Owner may conduct such investigations as deemed necessary to establish the responsibility, qualifications and financial ability of the Bidders, proposed Subcontractors and other persons and organizations to do the Work in accordance with the Bid Documents to the Owner's satisfaction within the prescribed time.
- 15.4. Bids will be based upon the estimated quantities shown in the Bid Form. Bids will be compared on the basis of a total computed price; arrived at by taking the sum of the estimated quantities of each Bid Item, multiplied by the corresponding unit price bid, and any lump sum Bids on the individual items. Discrepancies between the multiplication of units of work and unit prices will be resolved in favor of the unit prices. Discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the correct sum. Discrepancies between words and figures will be resolved in favor of words. The right to reject any or all Bids or to accept any Bid considered of advantage to the Owner is reserved.
- 15.5. Unless all Bids are canceled or rejected, the Owner reserves the right granted by Section 2.2-4318 of the Code of Virginia to negotiate with the lowest responsible, responsive Bidder to obtain a Contract Price within the funds budgeted for the construction project. Negotiations with the lowest Bidder may include both modification of the Contract Price and the Scope of Work/Specifications to be performed. The Owner shall initiate such negotiations by Written Notice to the lowest responsible, responsive Bidder that its Bid exceeds the available funds and that the Owner wishes to negotiate a lower Contract Price. The Owner and the lowest responsive, responsible Bidder shall agree to the times, places, and manner of negotiations.

15.6. The acceptance of a Bid will be a notice in writing, signed by the Owner, and no other act shall constitute the acceptance of a Bid.

15.7 The Owner reserves the right to waive minor non-substantive errors in the Bid, to reject any/or all Bids, to award any Bid in whole or in part, and to award the Bid considered to be in the best interest of the Owner.

16. Qualifications of Bidders and Subcontractors.

16.1. The Contractor's Questionnaire is included in the Bid Documents and shall be submitted upon request within 72 hours. This information will assist the Owner in investigations and determination of the Contractor's qualifications to perform the Work.

16.2. To demonstrate their qualification to perform the Work, each Bidder shall be prepared to submit further written satisfactory evidence that the Bidder has sufficient experience, necessary capital, materials, machinery and skilled workers to complete the Work. If financial statements are required they shall be of such date as the Owner shall determine and shall be prepared on forms acceptable to the Owner. The Owner may make such investigations as deemed necessary to determine the ability of the Bidder to perform the Work. The Owner's decision or judgment on these matters shall be final, conclusive and binding.

16.3. The apparent low Bidder shall, within seven consecutive calendar days after the day of the Bid opening, submit to the Owner a list of all Subcontractors who will be performing work on the Agreement. Such list shall be accompanied by an experience statement with pertinent information as to similar projects and other evidence of experience and qualification for each such Subcontractor, person and organization. If the Owner, after due investigation, has reasonable objection to any proposed Subcontractor, other person or organization, the Owner may, before giving the Notice of Intent to Award, request the apparent low Bidder to submit an acceptable substitute without an increase in Bid price. If the apparent low Bidder declines to make any such substitution, the contract shall not be awarded to such Bidder, but his declining to make any such substitution will not constitute grounds for sacrificing his Bid Security. For any Subcontractors, other person or organization so listed and to whom Owner does not make written objection prior to the giving of the Notice of Award, it will be deemed the Owner has no objection.

16.4. By submitting their proposal, Bidders certify that they are not now debarred by the Federal Government or by the Commonwealth of Virginia or any other town, city, or county within the Commonwealth of Virginia, from submitting Bids on contracts for construction covered by this solicitation, nor are they an agent of any person or entity that is now so debarred.

17. Sham or Collusive Bids.

17.1. The Bids of any Bidder or Bidders who engage in collusive bidding shall be rejected. Any Bidder who submits more than one Bid in such a manner as to make it appear that the Bids submitted are on a competitive basis from different parties shall be considered a collusive Bidder.

17.2. The provisions contained in Sections 2.2-4367 through 2.2-4377, Code of Virginia, as amended, shall be applicable to all contracts solicited or entered into by Owner. By submitting their Bids, all Bidders certify that their Bids are made without collusion or fraud, and that they have not offered or received any kickbacks or inducements from any other Bidder, Supplier, manufacturer or subcontractor in connection with their Bid, and they have not conferred with 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.

18. Project Documents

- 18.1 The Hampton Roads Planning District Commission Regional Standards Third Edition, as amended, January 2005 are hereby defined as the City of Norfolk, Department of Utilities Standard Specifications. Department of Public Works Standard Specifications, latest edition and the accompanying Project Documents are intended to supplement each other, so that anything shown on the accompanying Project Documents but not mentioned in the specifications, or vice versa, shall be required as if both specified and shown. In the event of a conflict between the standards and specifications referenced herein, the order of precedence shall be as follows: Special Provisions, Project Documents, Regional Standards, City of Norfolk Department of Utilities Standard Design Criteria, City of Norfolk Department of Public Works Standard Specifications, Supplemental Specifications.**

III BID FORM

Bids to be opened:	3:00 p.m., Tuesday, 11 December 2007
Work to be Completed in:	Substantial Completion: 150 Calendar Days Final Completion: 180 Calendar Days
Liquidated Damages:	Five Hundred Dollars and No Cents (\$500.00) per calendar day after time for Substantial Completion has expired. Two Hundred Fifty Dollars and No Cents (\$250.00) per calendar day after time for Final Completion has expired.
Performance Bond:	100%
Payment Bond:	100%
Bid Security:	5%

Contractor and owner recognize that time is of the essence of this agreement and that the owner will suffer financial loss if the work is not completed within the times specified, plus any extensions thereof allowed in accordance with the contract documents. The parties also recognize the delays, expense, and difficulties involved in proving in a legal or arbitration proceeding the actual loss suffered by the owner if the work is not completed on time. Accordingly, instead of requiring any such proof, owner and contractor agree that as liquidated damages for delay (but not as penalty), contractor shall pay owner Five Hundred Dollars and No Cents (\$500.00) for each calendar day that expires after the time specified for substantial completion until the work is substantially complete. After substantial completion, if contractor shall neglect, refuse, or fail to complete the remaining work within the contract time or any proper extension thereof granted by owner, contractor shall pay owner Two Hundred Fifty Dollars and No Cents (\$250.00) for each calendar day that expires after the time specified for final completion and readiness for final payment until the work is completed and ready for final payment. If substantial completion is not achieved by the time of final completion then liquidated damages for both substantial and final completion shall run concurrently until substantial completion is achieved.

To: Director of Utilities
City of Norfolk, Virginia

A. BID PRICE

PROJECT: Water Main Replacement, Virginian Drive
OWNER: Department of Utilities
City of Norfolk

OPTION A - LUMP SUM BID

Not Used.

OPTION B - COMBINATION LUMP SUM AND UNIT PRICE BID

Not Used.

OPTION C - UNIT PRICE BID

In compliance with the Bid Documents, titled Water Main Replacement, Virginian Drive HRPDC Technical Amendments Number 1 and Number 2, and all Addenda issued to date all of which are part of this Bid, the undersigned hereby proposes to furnish all items including materials, supervision, labor, and equipment in strict accordance with, said Contract Documents, for the sum of:

BID ITEM NUMBER	BID ITEM	QUANTITY	UNIT	ELIGIBLE / INELIGIBLE	UNIT COST	TOTAL INELIGIBLE COST
1	8" PVC WATER MAIN	1200	LF	I		\$
2	6" PVC WATER MAIN	420	LF	I		\$
3	4" PVC WATER	30	LF	I		\$
4	16" DUCTILE IRON WATER MAIN	2920	LF	I		\$
5	16" X 16" TAPPING SLEEVE AND VALVE	2	EA	I		\$
6	16" X 8" TAPPING SLEEVE AND VALVE	1	EA	I		\$
7	6" X 6" TAPPING SLEEVE AND VALVE	2	EA	I		\$
8	4" TIE-IN AT YORKTOWN DR.	1	LS	I		\$
9	4" TIE-IN AT EAST KENMORE DR.	1	LS	I		\$
10	6" TIE-IN AT EAST KENMORE DR.	1	LS	I		\$
11	6" TIE-IN AT WEST KENMORE DR.	1	LS	I		\$
12	6" TIE-IN AT LOUISIANA DR.	1	LS	I		\$
13	8" GATE VALVE	1	EA	I		\$
14	6" GATE VALVE	5	EA	I		\$
15	4" GATE VALVE	2	EA	I		\$
16	16" BUTTERFLY VALVE	4	EA	I		\$
17	16" DUCTILE IRON FITTINGS	23	EA	I		\$
18	8" DUCTILE IRON FITTINGS	12	EA	I		\$
19	6" DUCTILE IRON FITTINGS	10	EA	I		\$
20	4" DUCTILE IRON FITTINGS	4	EA	I		\$
21	FIRE HYDRANT ASSEMBLY	2	EA	I		\$
22	1 1/2" CORPORATION STOP	1	EA	I		\$
23	3/4" CORPORATION STOP	39	EA	I		\$
24	1 1/2" TYPE K COPPER (PUBLIC)	10	LF	I		\$
25	3/4" TYPE K COPPER (PUBLIC)	925	LF	I		\$

BID ITEM NUMBER	BID ITEM	QUANTITY	UNIT	ELIGIBLE / INELIGIBLE	UNIT COST	TOTAL INELIGIBLE COST
26	1 ½" METER STOP/COPPER CONNECTION	1	EA	I		\$
27	¾" METER STOP/COPPER CONNECTION	39	EA	I		\$
28	METER BOX	33	EA	I		\$
29	AIR VENT ASSEMBLY	1	EA	I		\$
30	CUT AND CAP – 16" MAIN	2	EA	I		\$
31	CUT AND CAP 8", 6" AND 4" MAINS	8	EA	I		
32	VALVE ABANDONMENT	8	EA	I		\$
33	FIRE HYDRANT ASSEMBLY REMOVAL	2	EA	I		\$
34	WATER PLUMBING TURNAROUND 300 VIRGINIAN DR.	1	LS	I		\$
35	WATER PLUMBING TURNAROUND 316 VIRGINIAN DR.	1	LS	I		\$
36	WATER PLUMBING TURNAROUND 324 VIRGINIAN DR.	1	LS	I		\$
37	WATR PLUMBING TURNAROUND 332 VIRGINIAN DR.	1	LS	I		\$
38	WATER PLUMBING TURNAROUND 340 VIRGINIAN DR.	1	LS	I		\$
39	WATER PLUMBING TURNAROUND 344 A VIRGINIAN DR.	1	LS	1		\$
40	WATER PLUMBING TURNAROUND 344 B VIRGINIAN DR.	1	LS	1		\$
41	WATER PLUMBING TURNAROUND 348 A & B VIRGINIAN DR.	1	LS	1		\$
42	WATER PLUMBING TURNAROUND 352 A VIRGINIAN DR.	1	LS	1		\$
43	WATER PLUMBING TURNAROUND 352 B VIRGINIAN DR.	1	LS	1		\$
44	WATER PLUMBING TURNAROUND 356 VIRGINIAN DR.	1	LS	1		\$
MISCELLANEOUS						
45	SELECT BACKFILL	2130	CY	I	\$28.00	\$28,000.00
46	SELECT BEDDING, NO 57 STONE	127	TON	I	\$31.00	\$ 3,100.00
47	SHEETING LEFT-IN-PLACE		MBF	I	\$393.00	\$
48	TEST PITS (2' – 5')	3	EA	I		\$
49	PLUMBING PERMIT ALLOWANCE	11	EA	I	\$46.80	\$ 514.80
50	PLUMBING REPAIR ALLOWANCE	--	AL	I	\$1,000.00	\$ 1,000.00

BID ITEM NUMBER	BID ITEM	QUANTITY	UNIT	ELIGIBLE / INELIGIBLE	UNIT COST	TOTAL INELIGIBLE COST
51	NEOPRENE RUBBER PADS	4	EA	I		\$
52	CURB/CURB & GUTTER	100	LF	I		\$
53	SIDEWALK	100	LF	I		\$
54	DRIVEWAY	50	SY	I		\$
55	RESIDENTIAL DRIVEWAY APRON	2	EA	I		\$
56	MODIFIED TYPE II PAVEMENT	160	LF	I		\$
57	TYPE III CONCRETE PAVEMENT	25	SY	I		\$
58	PAVEMENT MILLING	1950	SY	I		\$
59	6" AGGREGATE BASE (21A)	1700	TON	I		\$
60	ASPHALT SURFACE COURSE (9.5A)	810	TON	I		\$
61	ASPHALT BASE COURSE, BM-25.0	850	TON	1		\$
62	TEMPORARY ASPHALT PAVEMENT PATCH	350	SY	1		\$
63	VALLEY GUTTER	50	SY	1		\$
64	SAWCUT CONCRETE	1625	LF	1		\$
65	PAVEMENT REMOVAL	1900	SY	1		\$
66	ASPHALT SURFACE COURSE (9.5D)	50	TON	1		\$
SUBTOTAL MISCELLANEOUS						
TOTAL BID						
						INELIGIBLE

Bidder acknowledges that estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all Unit Price Bid items will be based on actual quantities provided, determined as provided in the Contract Documents. The prices quoted shall include without exception all materials, supervision, labor, equipment, appliances, clean-up, incidental items, applicable sales, use and other taxes, insurance, building permit or fees, and the Contractor's labor, overhead, profit, mobilization and other mark-ups, and in full accordance with the Contract Documents. Include allowance for waste where appropriate. The unit prices shall be maintained throughout the Contract Time. Unit prices shall be used in determining additions or deductions from the total Contract Price in the event of changes due to unforeseen conditions in the Work.

B. ADDENDA

The undersigned acknowledges receipt of the following addenda:

Addendum No. _____ Dated: _____.

Addendum No. _____ Dated: _____.

Addendum No. _____ Dated: _____.

- C. We agree to enter into an Agreement with the City of Norfolk, Virginia within ten (10) days of the award of same to us for the price named in our Bid.
- D. It is expressly agreed by us that the City of Norfolk, Virginia shall have the right to reject any and all Bids and to waive any minor non-substantive errors in the Bid and accept the Bid in the City of Norfolk's best interests.
- E. In default of the performance on our part of the conditions of Bid, our failure to enter into an Agreement with the City of Norfolk, Virginia, within the time above set, we herewith furnish a Bid Security in the amount of \$ _____, which shall be absolutely forfeited to the City of Norfolk, Virginia, but otherwise the said Bid Security shall be returned.
- F. We agree to begin Work at any time we may be notified by the Owner, and complete all of the Work embraced in the Agreement within **180** Days;
- G. *[This applies to projects over \$200,000 unless otherwise indicated].* I/We elect to utilize the Escrow Account Procedure described in the provision of this bid if determined to be the successful low Bidder. _____ (write "Yes" or "No").
_____ Bid total does not qualify for escrow account option
- H. The undersigned has read all sections under "Instructions to Bidders."
- I. **By signing the attached, the bidder certifies that a copy of the City of Norfolk Department of Utilities Standard Specifications is in the Bidder's possession, and that all work called for in the contract documents will be done in accordance with these specifications as prioritized in Section II.18.1. The Bidder also certifies that they will perform at least 51% of the work by value, and must submit, as part of the bid, a list of any sub-contractor doing more than 10% of the work by value, the extent of work that will be performed and the dollar value of the work.**

J. CONTRACTOR'S REGISTRATION AND SIGNATURE

Registered Virginia Contractor Class and No. _____

(NOTE: FAILURE TO INCLUDE CONTRACTOR'S REGISTRATION NUMBER IS GROUNDS FOR REJECTION OF THE BID.)

Contractor _____ Signed _____

Date _____ Title _____

NOTE: If Bidder is a corporation, write state of incorporation under signature.

MAILING ADDRESS AND TELEPHONE NUMBER OF BIDDER:

(_____) _____ [Telephone]

IF CORPORATION, PROVIDE NAME AND MAILING ADDRESS AS REQUIRED BELOW.

PRESIDENT

SECRETARY

TREASURER

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

IF PARTNERSHIP, PROPRIETORSHIP, LIMITED LIABILITY COMPANY OR OTHER FIRM, PROVIDE NAME AND MAILING ADDRESS OF EACH PARTNER, PROPRIETOR, OR MEMBER OF FIRM.

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

K. NON COLLUSION AFFIDAVIT

City of Norfolk, Virginia project: Water Main Replacement, Virginian Drive

Bid Proposal Date: _____

COMMONWEALTH OF VIRGINIA
(City/County)

This day personally appeared before the undersigned, a Notary Public in and for the City/County and State aforesaid,

_____ who having been first duly sworn according to law, did depose and aver as follows:

(a) That he/she is _____
(Owner, Partner, President, etc.)

of _____
(insert name of Bidder)

(b) That he/she is personally familiar with the Bid of _____
submitted in connection with the above captioned Owner's project.

(c) That said Bid was formulated and submitted in good faith as the true bid of said Bidder.

1. In preparation and submission of this Bid, the Bidder did not either directly or indirectly, enter into any combination or agreement with any person, firm or corporation or enter into any agreement, participate in any collusion, or otherwise take any action in the restraint of free, competitive bidding in violation of the Sherman act (15 U.S.C. Section 1) or sections 59.1-9.1 through 59.1-9.17 or sections 59.1-68.6 through 59.1-68.8 of the Code of Virginia.
2. The undersigned Bidder hereby certifies that neither this Bid nor any claim resulting therefrom, is the result of, or affected by, any act of collusion with, or any act of another person or persons, firm or corporation engaged in the same line of business or commerce; and that no person acting for or employed by the Owner has any personal interest in this Bid.
3. The undersigned hereby further agrees that upon request of the Owner, the records and books pertaining to this Bid will be voluntarily supplied, furnished, and released to the Owner.
4. The undersigned hereby further certifies that the Bidder has not knowingly falsified, concealed, misled, or covered up by any trick, scheme, or device a material fact in connection with this bid. The undersigned also certifies that the Bidder has not made any false, fictitious or fraudulent statements or representations or made or used any false writing or documents knowing the same to contain any false, fictitious or fraudulent statement or entry in connection with this Bid.
5. The undersigned further agrees that the Bidder will comply with section 2.2-4374 of the Code of Virginia, 1950, as amended, and has not bought or purchased any

equipment from any person employed by the Owner as an independent contractor to furnish architectural or engineering services for this Project, nor from any partnership, association or corporation in which such architect or engineer has a pecuniary interest.

6. The undersigned further agrees to require all subcontractors, consultants, subconsultants, or any other persons, corporations, or legal entities providing or furnishing labor, material, equipment or work related to this project to execute this anti-collusion statement as a condition of payment. This paragraph is expressly limited to those in a direct contractual relationship with the undersigned of over \$10,000 except those persons whose only direct contractual agreement with the undersigned is an employment contract.
7. All Covenants and Agreements made by the Contractor are made by it on behalf of the Contractor and its successors, personal representatives and assigns, the same as if they had been specifically named in each instance.

And further this deponent saith not.

Subscribed and sworn to before me this _____ day of _____, 20__

My commission expires: _____, 20__

Notary Public

IV. BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned, _____ as Principal, and _____ as Surety, are hereby held and firmly bound unto _____ as OWNER in the penal sum of _____ (Five Percent) for the payment of which, well and truly to be made, we hereby jointly and severally bind ourselves, successors and assigns.

Signed, this _____ day of _____, 20__.

The Condition of the above obligation is such that whereas the Principal has submitted to the OWNER a certain BID, attached hereto and hereby made a part hereof to enter into an Agreement in writing, for the

NOW, THEREFORE,

- (a) If said BID shall be rejected, or
- (b) If said BID shall be accepted and the Principal shall execute and deliver an Agreement in the Form of Agreement attachment hereto (properly completed in accordance with said BID) and shall furnish a BOND for faithful performance of said Agreement, and for the payment of all persons performing labor or furnishing materials in connection therewith, then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its BOND shall be in no way impaired or affected by any extension of the time within which the OWNER may accept such BID; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year set forth above.

Principal

Surety

By: _____
Attorney-in-Fact

IMPORTANT - Surety companies executing BONDS shall appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the Commonwealth of Virginia.



V QUESTIONNAIRE

If requested by the Owner, the following questions shall be answered in full by the Bidder, and returned to the Owner within 72 hours.

- 1. Name of Company: _____
Trade Name (if different from Company Name): _____
Principal Office Address: _____

Telephone No(s): _____
Fax No(s): _____

- a. If a Corporation, answer the following:

When Incorporated: _____

In What State: _____

Names and Addresses of Directors: _____

Names and Addresses of Shareholders: _____

- b. If an Unincorporated Organization, answer the following:

Date of Organization: _____

Names and Addresses of Owners or Members: _____

Type and State of Organization: _____

- c. If a Partnership, state whether Partnership is General or Limited: _____

Names and Addresses of Owners or Partners:

2. a. How many years has this Bidder been in business as a Contractor under its present business name? _____

b. What are prior names of this Bidder, if any? _____

3. How many years' experience in this type of construction work has this Bidder had:

1) As a Contractor _____ 2) As a Subcontractor _____

4. Provide a list of uncompleted Contracts at present held by this Bidder (attach supplemental sheet if necessary):

<u>Contract</u>	<u>Type of Work</u>	<u>Amount</u>	<u>Percentage Completed</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

5. List the Bidder's crew foremen and supervisors proposed for this Project and their years of related experience:

<u>Name</u>	<u>Years of Experience</u>	<u>Dates of Employment with Bidder</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

6. What construction equipment does this Bidder own that is available for the proposed work (attach supplemental sheet if necessary)?

7. Does this Bidder plan to subcontract any part of this work? If so, list name, address, years experience, and type and amount of work to be performed by each subcontractor:

8. Provide a list of projects similar in character and scope to the Work specified under this Contract which have been successfully completed by this Bidder during the past three years (attach supplemental sheet if necessary).

(The term "completed" means accepted and final payment received from the Owner or authorized representative).

Location & Type of Work	Owner's Name/ Address	Contact Person (Name and Telephone)	Date Completed	Contract Price
----------------------------	-----------------------------	--	-------------------	-------------------

9. Have you ever performed work for a municipal corporation, local governing body, or similar agency previously? (If all such bodies are listed under 8, this question need not be completed).



10. a. Has this Bidder ever failed to complete any work awarded to it? _____ If yes, give name of Owner, name of Bonding Company and circumstances:

b. Is this Bidder on any list of debarred contractors maintained by the Federal Government, Commonwealth of Virginia, Virginia Department of Transportation, or any city or county government or agency?

Yes _____ No _____ If yes, please provide details:

c. Has this Bidder ever had any judgements entered against it for the breach of contract for construction? _____ If yes, please provide details:

d. Give a summary of your financial statement. (List assets and liabilities, use an insert sheet, if necessary).

11. State approximate largest dollar volume of work performed by this Bidder in one year:

12. Give two (2) Banking Institution References:

a. Name: _____

Address: _____

Credit Available: _____

b. Name: _____

Address: _____

Credit Available: _____

13. List three material suppliers and amount of credit available:

_____	_____
_____	_____
_____	_____

14. List insurance coverage and amount (or attach certificate of insurance):

Liability-Property

Liability-Personal Injury

Vehicle and Equipment

Other - Identify

15. Bonding reference - List surety company and highest coverage:

16. Have you or your authorized representative, personally inspected the location of the proposed Work, and do you have a clear understanding of the requirements of the Bid Documents?

The undersigned hereby authorizes and consents to any person, firm or corporation to furnish any information requested by the Owner in verification of this statement of contractor's qualifications. Also, if it is the apparent low Bidder, the undersigned hereby agrees to furnish the Owner upon request, a complete and current financial statement:

Contractor: _____

By: _____

Title: _____

Date: _____

VI CERTIFICATION REGARDING DEBARMENT

This is to certify that this person/firm/corporation is not now barred from bidding on Projects by any agency of the Commonwealth of Virginia or the United States of America, and that this person/firm/corporation is not a part of any firm/corporation that is now barred from bidding on contracts by any agency of the Commonwealth of Virginia or the United States of America.

Name of Official

Title

Firm or Corporation

Date

VII. STANDARD BID ITEMS AND UNITS

Section	Bid Item	Category	Unit
301	Clearing and grubbing	Clearing and Grubbing	ACRE or LS
301	Tree protection fencing	Clearing and Grubbing	LF or EA
302	Storm sewer pipe (diameter and type)	Drainage Structures	LF
302	Pipe culverts (waterway opening)	Drainage Structures	LF
302	Pipe reducers (larger diameter)	Drainage Structures	LF
302	Jacked pipe (diameter and type)	Drainage Structures	LF
302	Reinstalled pipe (diameter)	Drainage Structures	LF
302	End sections (standard and size)	Drainage Structures	EA
302	End walls	Drainage Structures	EA
302	Pipe Spillout	Drainage Structures	EA
302	Concrete (Class)	Drainage Structures	CY
302	Box culverts (waterway opening)	Drainage Structures	LF
302	Pipe grate	Drainage Structures	LF
302	Drop / yard inlets, catch basins, and intake boxes	Drainage Structures	EA
302	Base section (drop inlets and manholes)	Drainage Structures	LF
302	Manhole (0-6' depth) (4 or 5 foot diameter)	Drainage Structures	EA
302	Manhole (>6' depth) (4 or 5 foot diameter)	Drainage Structures	VF
302	Conflict manhole	Drainage Structures	EA
302	Concrete spring boxes	Drainage Structures	EA
302	Junction boxes	Drainage Structures	EA
302	Reconstructed manholes	Drainage Structures	EA
302	Precast Arches	Drainage Structures	LF
303	Regular excavation	Earthwork	CY
303	Pavement demolition (type and depth of pavement) [in proposed pavement]	Earthwork	SY
303	Pavement demolition (type and depth of pavement) [outside proposed pavement]	Earthwork	SY
303	Curb & gutter demolition	Earthwork	LF
303	Existing structure demolition	Earthwork	EA
303	Existing pipe demolition	Earthwork	LF
303	Undercut Excavation (regular)	Earthwork	CY
303	Select Material (min. CBR)	Earthwork	CY
303	Select Bedding (regular)	Earthwork	CY
303	Suitable Fill (regular)	Earthwork	CY
303	Backfill of Undercut Excavation (regular)	Earthwork	CY or TON
303	Surcharge placement and removal	Earthwork	CY
303	Settlement plate	Earthwork	EA
303	Geotextile fabric for Base Preparation	Earthwork	SY
303	Select Bedding/Backfill of Undercut Excavation (trenching)	Earthwork	CY or TON

Section	Bid Item	Category	Unit
303	Undercut Excavation (trenching)	Earthwork	CY
303	Sheeting, bracing, and shoring left in place (trenching)	Earthwork	LS
303	Check dam (log or rock)	Earthwork	EA
303	Rip-Rap for erosion control	Earthwork	TON
303	Baled straw check dam	Earthwork	EA
303	Temporary silt fence	Earthwork	LF
303	Geotextile fabric for Erosion Control	Earthwork	SY
303	Temporary filter barrier	Earthwork	LF
303	Slope drain	Earthwork	EA
303	Sediment basin excavation	Earthwork	CY
303	Siltation control excavation	Earthwork	CY
303	Inlet Protection (type of device)	Earthwork	EA
303	Construction entrance	Earthwork	EA
305	Select material - Type I	Subgrade and Shoulders	TON
305	Select material - Types II or III	Subgrade and Shoulders	CY
309	Aggregate material (base course)	Aggregate Base Course	CY or TON
309	Aggregate base material (base course for curb and gutter)	Aggregate Base Course	CY or TON
310	Tack coat	Tack and Prime Coat	GALLON
310	Prime coat	Tack and Prime Coat	GALLON
313	Asphalt surface treatment	Asphalt Surface Treatment	SY
315	Asphalt concrete (type and class)	Asphalt Concrete Pavement	TON or SY
315	Bituminous Leveling Course	Asphalt Concrete Pavement	TONS
315	Edge clipping of shoulders	Asphalt Concrete Pavement	LF
406	Reinforcing steel or welded wire mesh	Reinforcing Steel	POUND
406	Epoxy-coated reinforcing steel	Reinforcing Steel	POUND
414	Dry riprap (class and depth)	Riprap	SY or TON
414	Grouted riprap	Riprap	SY or TON
414	Stone riprap for foundation protection (depth)	Riprap	SY or TON
414	Dumped riprap	Riprap	SY or TON
414	Mortared riprap	Riprap	SY
414	Concrete riprap in bags	Riprap	CY
414	Erosion control rip rap	Riprap	SY or TON
501	Underdrain and combination underdrain	Underdrains	LF
502	Curb, combination curb and gutter (detail designation)	Concrete Items	LF
502	Gutter, standard, radial and entrance	Concrete Items	SY
502	Paved ditch	Concrete Items	SY
502	Paved flume	Concrete Items	SY
502	Street Connection pavement	Concrete Items	SY

<u>Section</u>	<u>Bid Item</u>	<u>Category</u>	<u>Unit</u>
502	Bridge drainage aprons and chutes	Concrete Items	SY
502	Energy Dissipators	Concrete Items	EA
502	Median barriers (including delineators)	Concrete Items	LF
502	Median strips	Concrete Items	LF or SY
502	Sign island	Concrete Items	EA or SY
502	Directional island curb	Concrete Items	LF
502	Hydraulic cement concrete sidewalks (thickness)	Concrete Items	SY
502	Concrete steps (concrete)	Concrete Items	CY
502	Handrails	Concrete Items	LF
502	Geotextile drainage fabric	Concrete Items	SY
510	Remove, reset, relay, adjust, install, modify, reconstruct relocate, existing (Item or standard)	Relocating or Modifying Existing Miscellaneous Items	EA, LF, SY, CY or LS
510	Adjust structure heights	Relocating or Modifying Existing Miscellaneous Items	EA
511	Allaying dust	Allaying Dust	HR
512	Flagger Service (Certified)	Maintaining Traffic	HR
512	Flagger Service (Police-assisted))	Maintaining Traffic	HR
512	Pilot vehicle	Maintaining Traffic	HR
512	PDMS (Type)	Maintaining Traffic	DAY, WEEK or MONTH
512	TMA	Maintaining Traffic	HR, DAY, WEEK or MONTH
512	Electronic Arrow	Maintaining Traffic	HR, DAY, WEEK or MONTH
512	Warning Light	Maintaining Traffic	DAY, WEEK or MONTH
512	Group 2 Channelizing Devices	Maintaining Traffic	DAY, WEEK or MONTH
512	Traffic barrier service (per location) (Type and/or standard)	Maintaining Traffic	LF
512	Traffic barrier service guardrail termination (standard)	Maintaining Traffic	EA or LF
512	Impact attenuator service (Type)	Maintaining Traffic	EA
512	Temporary signalization	Maintaining Traffic	LS
512	Construction pavement marking (type and message)	Maintaining Traffic	LF
512	Construction pavement message marking (type and width)	Maintaining Traffic	EA
512	Eradication of existing pavement marking (per 4-inch width)	Maintaining Traffic	LF
512	Temporary Pavement marker ([]-way)	Maintaining Traffic	EA
512	Temporary Detour (standard and type)	Maintaining Traffic	LF
512	Crusher run aggregate (No. 25 or 21A)	Maintaining Traffic	TON
512	Type III Barricades	Maintaining Traffic	EA

Section	Bid Item	Category	Unit
512	Construction Signs	Maintaining Traffic	DAY
513	Mobilization (2 payments)	Mobilization & Demobilization	LS
515	Milling Pavement	Milling Pavement	SY
530	Abandon Pipe, (diameter) < larger than 2-inch>	Abandonment of Existing Pipelines and Structures	LF
530	Abandon Meter Boxes	Abandonment of Existing Pipelines and Structures	EA
530	Abandon Laterals and Cleanouts (on Abandoned Mains)	Abandonment of Existing Pipelines and Structures	LF or EA
530	Abandon Laterals and Cleanouts (on Active Mains)	Abandonment of Existing Pipelines and Structures	EA
530	Abandon Manholes	Abandonment of Existing Pipelines	EA
530	Abandon Drainage Structures	Abandonment of Existing Pipelines and Structures	EA
530	Abandon Meter/Valve Vaults/Boxes	Abandonment of Existing Pipelines and Structures	EA
530	Abandon Metallic Structures	Abandonment of Existing Pipelines and Structures	EA
602	Topsoil (4-or 6-inch depth)	Topsoil	ACRE or SY
603	Lime, fertilizer, seed and mulch	Seeding	ACRE or SY
604	Sod, fertilizer and lime	Sodding	SY
605	Plants (Type and size)	Planting	EA
605	Mulching and remulching	Planting	100 SF
608	Mowing	Mowing	HR or LS
700	Concrete foundation (Standard, type and, size)	Traffic Control Devices	EA
700	Electrical service (Standard and type)	Traffic Control Devices	EA
700	Luminaire arm (Length)	Traffic Control Devices	EA
700	Lighting pole (Standard luminaire mounting height, and length of luminaire arm)	Traffic Control Devices	EA
700	Signal pole (Standard, length, number, and length of arms)	Traffic Control Devices	EA
700	Overhead sign structure	Traffic Control Devices	EA
700	Bridge-mounted sign structure (Location)	Traffic Control Devices	EA
700	Pedestal pole (Standard and length)	Traffic Control Devices	EA
700	Wood pole (Class and length)	Traffic Control Devices	EA
700	Conductor Cable (Size/number)	Traffic Control Devices	LF
700	Conduit (Type and size)	Traffic Control Devices	LF
700	Trench Excavation (Standard)	Traffic Control Devices	LF
700	Junction box (Standard)	Traffic Control Devices	EA
704	Pavement line marking (Type and/or class and width)	Traffic Control Devices	LF
704	Pavement message marking (Message)	Traffic Control Devices	EA
704	Pavement marker (Type, []-way, and/or type pavement)	Traffic Control Devices	EA

Section	Bid Item	Category	Unit
801	Ductile iron water main (diameter)	Water Distribution Systems	LF
801	PVC water main (diameter)	Water Distribution Systems	LF
801	Fire hydrant assembly	Water Distribution Systems	EA
801	Water sampling stations	Water Distribution Systems	EA
801	Gate valves (diameter)	Water Distribution Systems	EA
801	Tapping sleeve/valve (diameter)	Water Distribution Systems	EA
801	Blowoff assembly	Water Distribution Systems	EA
801	Water Meter Box	Water Distribution Systems	EA
801	Manual air vent assembly	Water Distribution Systems	EA
801	Type K copper service lines (jack and pull)	Water Distribution Systems	LF or EA
801	Type K copper service lines (open cut)	Water Distribution Systems	LF or EA
801	Type K copper dual service lines (jack and pull)	Water Distribution Systems	LF or EA
801	Type K copper dual service lines (open cut)	Water Distribution Systems	LF or EA
801	Polyethylene encasement	Water Distribution Systems	LF
801	Connections to existing water mains	Water Distribution Systems	EA
802	Gravity sewer pipe (diameter, type and depth 0-6, 6-8, 8-10,10-12,12-14,14-16,16-18,18-20, >20')	Sanitary Gravity Sewer Systems	LF
802	Sewer laterals (type and diameter)	Sanitary Gravity Sewer Systems	LF or EA
802	Manhole, 0' to 6' in depth (4-or 5-foot dia.)	Sanitary Gravity Sewer Systems	EA
802	Manhole extra depth (4-or 5-foot dia.)	Sanitary Gravity Sewer Systems	VF
802	Drop Manhole (inside or outside)	Sanitary Gravity Sewer Systems	EA
802	Standard manhole frame and cover	Sanitary Gravity Sewer Systems	EA
802	Watertight manhole frame and cover	Sanitary Gravity Sewer Systems	EA
802	Clean-out assemblies (mainline and service lateral)	Sanitary Gravity Sewer Systems	EA
802	Remote Camera/TV Inspection	Sanitary Gravity Sewer Systems	LF
802	Connections to existing manholes	Sanitary Gravity Sewer Systems	EA
802	Manhole and Mainline Cleanout adjustment rings	Sanitary Gravity Sewer Systems	EA
803	Ductile iron force main (diameter)	Sanitary Force Main Systems	LF
803	HDPE force main (diameter)	Sanitary Force Main Systems	LF
803	PVC force main (diameter)	Sanitary Force Main Systems	LF
803	Manual air vent assembly	Sanitary Force Main Systems	EA
803	Gate valves (diameter)	Sanitary Force Main Systems	EA
803	Tapping sleeve/valve (diameter)	Sanitary Force Main Systems	EA
803	Connections to existing force mains or manholes	Sanitary Force Main Systems	EA
804	Bore and jack casing (diameter)	Boring and Jacking	LF
810	Light Cleaning (diameter)	Sewer Line Cleaning	LF
810	Heavy Cleaning (diameter and number of passes greater than 3)	Sewer Line Cleaning	LF

Section	Bid Item	Category	Unit
	Sanitary Sewer Rehabilitation	(Sections 810-822)	
810	Manhole Cleaning	Sewer Line Cleaning	EA
811	Television Inspection (CCTV Only)	Television Inspection	LF
812	Bypass Pumping / Flow ~____ MGD (Flow > 2 MGD)	Bypass Pumping	LS
813	CIPP Method / Wall Thickness = ____mm (diameter)	Pipe Rehabilitation By Cured-In-Place Method	LF
814	Fold and Form Method / Wall Thickness = SDR ____ (diameter)	Pipe Rehabilitation By Fold and Form Pipe Method	LF
816	Sewer Joint Testing (diameter)	Sewer Joint Testing	EA
817	Chemical Joint Sealing / Grouting	Chemical Grouting	GAL
818	Sewer Point Repair (diameter, material, and depth 0-6, 6-8, 8-10, 10-12, 12-14, 14-16, 16-18, 18-20, >20')	Point Repair By Excavation	LF
819	Insitu Structural Point Repair / Wall Thickness = ____ mm 0-3 Foot Section Length (diameter)	Insitu Structural Point Repair	EA
819	Insitu Structural Point Repair / Wall Thickness = ____ mm 3-6 Foot Section Length (diameter)	Insitu Structural Point Repair	EA
819	Insitu Structural Point Repair / Wall Thickness = ____ mm 6-10 Foot Section Length (diameter)	Insitu Structural Point Repair	EA
819	Insitu Structural Point Repair / Wall Thickness = ____ mm 10-15 Foot Section Length (diameter)	Insitu Structural Point Repair	EA
820	Insitu Point Repair by Sectional Lining / Wall Thickness = ____mm 6-10 Foot Section Length (diameter)	Insitu Point Repair By Sectional Lining	EA
820	Insitu Point Repair by Sectional Lining / Wall Thickness = ____mm 10-15 Foot Section Length (diameter)	Insitu Point Repair By Sectional Lining	EA
821	Service Laterals (diameter and material)	Sanitary Sewer Service Reconnection	LF
822	Manhole Cementitious Coating, 0-6' depth (4- or 5-ft diameter)	Manhole Rehabilitation	EA
822	Manhole Cementitious Coating extra depth (4- or 5-ft diameter)	Manhole Rehabilitation	VF
822	Manhole Fiberglass Insert Liner, 0-6' depth (4- or 5-ft diameter)	Manhole Rehabilitation	EA
822	Manhole Fiberglass Insert Liner extra depth (4- or 5-ft diameter)	Manhole Rehabilitation	VF
822	Manhole Epoxy Coating, 0-6' depth (4- or 5-ft diameter)	Manhole Rehabilitation	EA
822	Manhole Epoxy Coating extra depth (4- or 5-ft diameter)	Manhole Rehabilitation	VF
822	Manhole Frame Seals	Manhole Rehabilitation	EA