

Sanitary Sewer Trunk Line Replacement
Village of Geneva-on-the-Lake
WPCLF Funded Project
June 2024



231183

VILLAGE OF GENEVA-ON-THE-LAKE OFFICIALS

ADMINISTRATION

Dwayne M. Bennett, Sr., Mayor

Jeremy Shaffer, Village Administrator

Christopher M. Newcomb, Village Solicitor

Jessi Spurlock, Interim Fiscal Officer & Clerk of Council

Kyle Cawley, Police Chief

Chris Craft, Fire Chief

COUNCIL

Matt Caudill, President

BJ McMullan

Donald P. Woodward

P.J. Macchia

Gary Himes

Cynthia Dudeck

ADVERTISEMENT FOR BIDS/PUBLIC NOTICE TO BIDDERS

Sealed bids will be received at the office of the Village Administrator, 4929 South Warner Drive, Geneva-on-the-Lake, Ohio 44041 until 3:00 p.m. on July 12, 2024 and will be opened and read immediately thereafter for the

SANITARY SEWER TRUNK LINE REPLACEMENT

WPCLF FUNDED PROJECT CONGRESSIONAL EARMARK FUNDED PROJECT

OPINION OF PROBABLE CONSTRUCTION COST: \$4,200,000.00

COMPLETION DATE: OCTOBER 31, 2025

The bid specifications, drawings, plan holders list, addenda, and other bid information (**but not the bid forms**) may be viewed and/or downloaded for free via the internet at <https://bids.ctconsultants.com>. The bidder shall be responsible to check for Addenda and obtain same from the web site.

Bids must be in accordance with drawings and specifications and on forms available from CT Consultants, Inc. at a non-refundable cost of One Hundred Twenty - Five Dollars (\$125.00). Documents may be ordered by registering and paying online at <https://bids.ctconsultants.com>. Please contact planroom@ctconsultants.com or call (440) 530-2395 if you encounter any problems viewing, registering, or paying for the documents.

There will be a Non-Mandatory Pre-Bid Conference on July 2, 2024 at 10:00 a.m. at the Village Hall, 4929 South Warner Drive, Geneva-on-the-Lake, Ohio 44041.

This project will be funded by the Water Pollution Control Loan Fund Program as administered by the Ohio Environmental Protection Agency and the Ohio Water Development Authority. The Contractor shall note that there are Disadvantaged Business Enterprise participation goals for this project.

This procurement is subject to the EPA policy on encouraging the participation of small business in rural areas (SBRAs).

Publish: *Star Beacon*
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June 28, 2024

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SECTION 1
BID DOCUMENTS

INSTRUCTIONS TO BIDDERS

PART 1 GENERAL

- 1.1 Sealed bids shall be received by the Owner at the location specified and until the time and date specified in the Advertisement for Bids/Public Notice to Bidders.
- 1.2 Each bid shall contain the full name and address of each person or company interested in said bid. If no other person be so interested, the Bidder shall distinctly so state the fact.
- 1.3 Bid forms must be completed in ink or by typewriter. Any corrections to the bid forms prior to submission must be initialed by the person signing the bid. Failure to submit any bid form(s) or other required document(s) may be cause for rejection of the bidder's bid at the sole discretion of the Owner.
- 1.4 Bids by Corporations must be executed in the corporate name by the President, Vice President, or other officer accompanied by evidence of authority to sign and the corporate seal must be affixed and attested by the Secretary on the Corporate Resolution form.
- 1.5 Bids by partnerships must be executed in the partnership name and signed by a partner, whose title must appear under the signature.
- 1.6 All names must be typed or printed below the signature.
- 1.7 The bid shall contain an acknowledgment of receipt of all Addenda.
- 1.8 If a Bidder wishes to withdraw their bid prior to the opening of bids, they shall state their purpose in writing to the Owner before the time fixed for the opening, and when reached it shall be handed to them unread.
- 1.9 After the opening of bids, no Bidder may withdraw their bid for a period of 120 days.

PART 2 EXAMINATION OF CONTRACT DOCUMENTS AND SITE

- 2.1 Before submitting a bid, each Bidder must
 - A. Examine the Contract Documents thoroughly.
 - B. Visit the site to familiarize themselves with local conditions that may in any manner affect cost, progress, or performance of the work.
 - C. Familiarize themselves with Federal, State, and local laws, ordinances, rules, and regulations that may in any manner affect cost, progress, or performance of the work.
 - D. Study and carefully correlate Bidder's observations with the Contract Documents.

- 2.2 Reference is made to the Specific Project Requirements for the identification of any reports of investigations and tests of subsurface and latent physical conditions at the site or otherwise affecting cost, progress or performance of the work which have been relied upon by the Engineer in preparing the drawings and specifications. Owner will make copies of such reports available to any Bidder requesting them if not made available with the bid documents. These reports are not guaranteed as to accuracy or completeness; nor are they part of the Contract Documents. Before submitting their bid each Bidder will, at their own expense, make such additional investigations and tests as the Bidder may deem necessary to determine their bid for performance of the work in accordance with the time, price and other terms and conditions of the Contract Documents.
- 2.3 Upon request, the Owner will provide each Bidder access to the site to conduct such reasonable investigations and tests as each Bidder deems necessary for submission for their bid.
- 2.4 The lands upon which the work is to be performed, rights-of-way for access thereto, and other lands designated for use by Bidder in performing the work are identified on the Drawings.
- 2.5 The submission of a bid will constitute an incontrovertible representation by the Bidder that they have complied with every requirement of this section and that the Contract Documents are sufficient in scope and detail to indicate and convey understanding of all terms and conditions for performance of the work.

PART 3 ESTIMATED QUANTITIES

- 3.1 In Unit Price Contracts, the quantities of the work itemized in the bid are approximate only and the bidders are hereby notified that the estimated quantities made by the Engineer are merely for the guidance of the Owner in comparing on a uniform basis all bids received for the work.
- 3.2 The contract quantities, where itemized, are based on plan horizontal and vertical dimensions unless otherwise specified. It is the Contractor's responsibility to verify and determine actual quantities of materials such as pipe, pavement, subgrade, etc. in their ordering materials.
- 3.3 Payments, except for lump sum contracts and except for lump sum items in unit price contracts, will be made to the Contractor only for the actual quantities of work performed or materials furnished in accordance with the plans and specifications.
- 3.4 The successful Bidder will be required to furnish the Owner with a complete breakdown of the lump sum bid items, to the satisfaction of the Engineer/Architect, before signing the Contract documents.

PART 4 CONTRACTOR'S QUALIFICATION

- 4.1 Bidder shall provide detailed information relating to similar projects completed within the past 5 years which demonstrates the bidder's capability, responsibility, experience, skill, and financial standing to undertake this type of project and shall include a list of all projects currently under construction including status and contact person.
- 4.2 Bidder shall own, have rental or lease agreements for, or otherwise have readily available any and all equipment and tools necessary for proper execution of the work. The Owner reserves the right to request lists of equipment or tools available for the project including sources.
- 4.3 Bidder shall provide pertinent information to the Owner relative to any pending suits or outstanding liens. If no information is provided by the Bidder, the Owner shall assume that any such suits or liens do not exist.
- 4.4 The Owner may require similar information on any or all subcontractors proposed by the Bidder.
- 4.5 Bids of corporations not chartered in the state in which the work will take place must be accompanied by proper certification that the corporation is authorized to do business in that state.

PART 5 SUBCONTRACTORS

- 5.1 The Bidder shall state on the appropriate bid form the names of all Subcontractors, Sub Consultants and other professional service providers proposed and the items of work they are to be assigned. All work not assigned to a Subcontractor shall be assumed by the Owner to be performed by the Bidder.
- 5.2 The Owner reserves the right to approve all subcontractors proposed by the Bidder. If the Owner, after due investigation, rejects the use of a proposed subcontractor, the apparent successful Bidder may either submit an acceptable substitution without increase in bid price or decline substitution and withdraw their bid without sacrificing their bid security. Any listed subcontractor to whom the Owner does not make written objection prior to award of contract, shall be deemed acceptable to the Owner.
- 5.3 Requests for changes of Subcontractor by the Bidder after the award shall be subject to the Owner's approval and shall not change the contract bid prices.
- 5.4 No contractor shall be required to employ any Subcontractor, person or organization against whom they have reasonable objection.

PART 6 BID REVIEW BY OWNER

- 6.1 The Owner reserves the right to reject any and all bids, to waive as an informality any and all irregularities, and to disregard all nonconforming, nonresponsive or conditional bids.

- 6.2 All extensions and totals of unit prices and quantities submitted as part of the bid shall be considered informal until verified by the Owner. All bids must be made on the forms contained herein and the bid prices must be written therein, in figures only. Unit prices shall be separately written for "Unit Price Labor," "Unit Price Material," and "Total Unit Price" for each item listed. Should an error in addition and/or multiplication be determined while checking the Contractor's math and verifying their total bid, the "Unit Price Labor" and the "Unit Price Material" figures shall govern in determining the correct "Total Unit Price" and the correct "Item Total."
- 6.3 Each bidder must bid on all Items, Alternates, Deductions, and Additions contained in the Bidding Forms. All bids not in conformity with this notice may be considered non-responsive and may be rejected.
- 6.4 More than one bid for the same work from an individual or entity under the same of different names will not be considered. Reasonable grounds for believing that any bidder has an interest in more than one bid for the work may be cause for disqualification of that bidder and the rejection of all bids in which the bidder has an interest. A subcontractor or supplier is not a bidder, and may submit prices to multiple bidders.
- 6.5 In evaluating bids, the Owner may consider:
- A. The qualifications and experience of the Bidder, proposed subcontractors, and principal material suppliers as outlined in the plans and specifications.
 - B. Financial ability and soundness of the Bidder and proposed subcontractors.
 - C. Completeness of all bid forms and bid requirements.
 - D. Alternates and unit prices requested in the Bid Forms.
 - E. Unit prices or schedules of values that are or appear to be unbalanced.
 - F. Previous contractual experience with the Owner.
 - G. Whether or not the bid package complies with the prescribed requirements.
 - H. The proposed completion date, if applicable.
 - I. Any other matter allowed by law or local ordinance or resolution.
- 6.5 Owner may conduct further investigations as they deem necessary to assist in the evaluation of any bid and to establish the responsibility, qualifications, and financial ability of the Bidder, proposed Subcontractors, and other persons and organizations to do the work in accordance with the Contract Documents to Owner's satisfaction within the prescribed time.
- 6.6 Owner reserves the right to reject the bid of any Bidder who does not pass any such evaluation to Owner's satisfaction.

- 6.7 The Contract award shall be based on the lowest and best bid or lowest responsive and responsible bid (as applicable for the public contracting agency receiving bids) for the base bid and selected alternate items (if any) for this project.

PART 7 BID SECURITY

- 7.1 Each bid must be accompanied by a certified or cashier's check in the amount of 10% of the amount bid, an irrevocable letter of credit in the amount of 10% of the amount bid or an original bond in the amount of 100% of the amount bid per ORC 153.54 and 153.571. The certified or cashier's check, or irrevocable letter of credit shall be from a financial institution authorized to transact business in the State of Ohio and acceptable to the Owner. The bond shall be underwritten by a Surety Company authorized to transact business in the State of Ohio having an Ohio agent and listed on the most current Department of the Treasury Circular 570, "Surety Companies Acceptable on Federal Bonds." The bond shall be a "Bid Guarantee and Contract Bond" ("rollover bond") per O.R.C. sections 153.54 and 153.571 submitted for the full amount of the bid **including all alternates**, if any.

If bid security is made by bond, the Bidder and their Surety shall sign the Supplemental Bond Acknowledgement form and submit with their bid.

- 7.2 The certified or cashier's check, irrevocable letter of credit, or bond shall be made payable to the Owner and shall serve as a guarantee that in the event the bid is accepted and a contract is awarded to the successful Bidder, the contract will be executed by the bidder including any certifications, certificates or additional bonds required by the contract.
- 7.3 Failure on the part of the successful Bidder to execute the contract documents will cause the certified or cashier's check, irrevocable letter of credit, or bond to be forfeited to the Owner as damages.
- A. If the Owner awards the contract without rebidding, the Bidder (and the Surety on their bond if a bond was submitted) shall be liable to the Owner for a penal sum not to exceed the difference between the low bid and the next lowest bidder or 10% of the amount of the bid, whichever is less.
- B. If the Owner does not award the Contract to the next lowest Bidder, but resubmits the project for bidding; the Bidder (and the Surety on their bond if a bond was submitted) shall be liable to the Owner for a penal sum not to exceed the costs in connection with the resubmission of bids or 10% of the amount of the bid, whichever is less.
- 7.4 Checks or letters of credit for bid security of all bidders will be returned in the manner and timeframe stipulated in the Ohio Revised Code.

PART 8 CONTRACT BOND

- 8.1 As security for faithful performance and payment of all obligations under the Contract, the Owner shall require and the successful Bidder shall furnish either:
- A. *If submitted as Bid Security at time of bid:* "Bid Guarantee and Contract Bond" (AKA "rollover bond") per O.R.C. sections 153.54 and 153.571.
 - B. *If a cashier's check or irrevocable letter of credit is submitted as Bid Security at time of bid:* Contract Bond per Ohio Revised Code Sections 153.54 and 153.57, in the amount of 100% of the Contract Price. The Contractor and their Surety shall sign the Supplemental Bond Acknowledgement form and submit with the Contract forms
- 8.2 The bond shall be underwritten by a Surety Company authorized to transact business in the State of Ohio having an Ohio agent and listed on the most current Department of the Treasury Circular 570, "Surety Companies Acceptable on Federal Bonds."
- 8.3 The contract bond shall cover correction of the work for the period stated in the specifications and the correction period shall start upon Final Acceptance of the entire project and final payment by the Owner.
- 8.4 Nothing in the performance of the Engineer's service to the Owner in connection with this project shall in any way imply any undertaking for the benefit of the successful Bidder, its subcontractor(s), or the surety of any of them.

PART 9 AWARD AND EXECUTION OF CONTRACT

- 9.1 After the Owner's legislative body awards the project, the successful bidder will receive the unsigned contract documents. Within 10 days after their receipt, the successful Bidder shall sign and deliver to the Owner said contract documents including any certifications, certificates, or additional bonds required by the contract.
- 9.2 The Owner shall execute the Contract within 120 days after the day of the bid opening. When necessary and by mutual consent between the Owner and the Successful Bidder, this 120-day period may be extended.
- 9.3 The date of the Owner's signature on the Contract Agreement shall be the effective contract date.
- 9.4 The Owner shall execute and deliver to the successful Bidder one set of fully executed contract documents.

PART 10 INSURANCE

- 10.1 Verification of limits for public liability, property damage, automobile, Worker's Compensation, or any other insurance required by the provisions of this Contract must be submitted to the Owner prior to execution of the Contract.

10.2 All insurance shall be endorsed so that it cannot be cancelled for non-payment of premium for 10 days or cancelled or non-renewed for any other reason in less than 30 days after a written notice of such proposed action by the insurer is given to the Owner. The cancellation clause on the Certificate(s) of Insurance shall read as specified in the Supplementary Conditions and failure to submit an insurance certificate and/or policy endorsement verifying same shall be reason for the Owner to consider the Contractor non-responsive in complying with the requirements for contract execution and may be cause for forfeiture of the Bid Security to Owner.

10.3 The Contractor's Liability Insurance policy(s) shall be endorsed such that limits are on a Per Project basis.

10.4 The Contractor shall also provide an Owner's and Contractor's Protective Policy.

PART 11 NON-COLLUSION AFFIDAVIT

11.1 Collusion between bidders will be cause for rejection of affected bids and may be cause for rejection of all bids. Multiple bids submitted by one bidder under the same name or different names, whether as an individual, firm, partnership, corporation, profit or non-profit, affiliate, or association will be cause for rejection of bids. A subcontractor is not a bidder, and may submit prices to multiple bidders.

11.2 All bidders shall submit an affidavit that their bid is genuine and not collusive or sham; that such bidder has not colluded, conspired, connived, or agreed, directly or indirectly, with any bidder or person, to put in a sham bid, or that such other bidder or person shall refrain from bidding; that such bidder 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 of affiant or any other bidder, or to fix any overhead, profit or cost element of said bid price, or of that of any other bidder, or to secure any advantage against the Owner or any person or persons interested in the proposed contract; that such bidder is the only party (or parties) who has an interest with the bidder in the profits of any contract which may result from the herein contained proposal; that no individual affiliated with the Owner, including but not limited to the head of any department, any employee, or any other official or officer of the Owner, is or will be directly or indirectly interested in this bid, and/or the profits from this bid if successful; that no individual affiliated with the Owner, including but not limited to the head of any department, any employee, or any other official or officer of the Owner, has or will receive anything of value as a result of the submission of this bid or its award; that no individual affiliated with the Owner, including but not limited to the head of any department, any employee, or any other official or officer of the Owner, has been solicited to provide assistance and/or provided assistance to the bidder which might give the bidder a competitive advantage or circumvent the competitive bidding process; and that all statements contained in said proposal are true; and further, that such bidder has not, directly or indirectly submitted this bid, or the contents thereof, or divulged information or data relative thereto to any association or to any member or agent thereof.

11.3 Each bid must be accompanied by a completed Noncollusion Affidavit provided within the contract documents.

11.4 Where there is reason to believe collusion or combination among bidders exists, the Owner reserves the right to reject the bid of those concerned.

PART 12 DELINQUENT PERSONAL PROPERTY STATEMENT

12.1 Included with the contract documents is a Delinquent Personal Property Statement to be filled out by the successful Bidder.

12.2 The statement shall be sent to both the County Auditor and the County Treasurer. A signed copy shall remain in the contract documents as well.

PART 13 ORIGINAL DOCUMENTS

13.1 All bid forms, contract forms, bonds and any other bid documents or contract documents requiring signatures shall be submitted with original signatures. No photo copies or faxed copies of signed documents shall be accepted.

PART 14 ADDENDA

14.1 The bidder shall be responsible to obtain Addenda from the web at <https://bids.ctconsultants.com>.

END OF SECTION 10/31/23

PRICES TO INCLUDE

PART 1 - GENERAL

Any work shown on the plans or required in the specifications but not paid for separately as a bid item shall be included in the cost of other bid items. The amount bid for each Bid Item shall include the following:

- 1.1 All labor, materials, tools, equipment, and transportation necessary for the proper execution of the work in accordance with the Contract Documents.
- 1.2 All assistance required by the Engineer to verify compliance with the Contract Documents, including measuring for final pay quantities.
- 1.3 Project coordination and scheduling.
- 1.4 Detailed breakdown of lump sum bid items as requested by the Engineer.
- 1.5 All provisions necessary to protect workers, the general public, and property along the work in accordance with the Contract Documents.
- 1.6 Protection and/or replacement of existing property corner monuments.
- 1.7 Record drawings of the installed location of all underground electrical conduit, sewers, tees, wyes, laterals, etc.
- 1.8 Materials testing.
- 1.9 Reimbursement to Owner for costs of re-inspection or re-testing of any work not installed in compliance with the Contract Documents.

PART 2 - ITEMS

All work proposed by this contract shall be quantified and paid for in accordance with the pertinent ODOT specification except as specifically altered by other provisions of this contract. ODOT 104.02 D., 611.04, 611.12, and 611.13 shall not apply to this project.

2.1 PRECONSTRUCTION VIDEO DOCUMENTATION

Basis of Payment

The lump sum price shall include all costs associated with hiring a professional videotaping firm to document in detail the existing conditions of the entire work area and potential disturbed areas and submitting a high quality DVD with audio commentary and video log.

2.2 BONDS AND INSURANCES, AS PER PLAN

Basis of Payment

A "Bonds and Insurances" item (including "Owner/Contractor Protective Policy," "All Risk Builder's Risk Insurance," and/or "Installation Floater Insurance", **and/or endorsements to fully comply with all contract requirements**) has been included in the bid proposal.

2.3 (201) CLEARING & GRUBBING

Basis of Payment

Payment shall be made in accordance with ODOT Item 201, and shall include all trees, stumps, shrubbery and any removal or removal and reinstallation of any other misc. obstructions, i.e. mailboxes, sign posts, etc.

2.4 (202) PIPE REMOVED, 24-INCH AND UNDER

Method of Measurement

The quantity to be paid shall be the number of feet of pipe removed (24" inside diameter and under) as measured from center of manhole to center of manhole or to the end of a pipe where a manhole does not terminate the pipe segment along that face being removed.

Basis of Payment

The unit price shall include trench excavation; sheeting and shoring; dewatering, including all pumping required for water in existing pipe, underground water, or surface water; support, protection and/or replacement of all existing utilities (conduit, wires, cables, poles, signs, etc.); exploratory excavation and field location of existing pipe and fittings; disposal of excess materials; cutting and removal of existing pipe and manholes; furnishing and installation of stone bedding, conduit, caps, plugs, specials, glands, thrust blocking, bolts, jointing material, select or premium compacted backfill material; and the furnishing of all labor, materials, tools and appurtenances necessary to complete the work as specified or as shown.

2.5 SEWER ABANDONED WITH GROUT FILL, AS PER PLAN

Method of Measurement

The quantity to be paid shall be the number of feet of sanitary sewer and manholes abandoned per the plans and specifications as measured from center of manhole to center of manhole or to the concrete bulkhead or plug where a manhole does not terminate the pipe segment being abandoned

Basis of Payment

The unit price shall include trench excavation; sheeting and shoring; dewatering, including all pumping required for water in existing pipe, underground water, or surface water; support, protection and/or replacement of all existing utilities (conduit, wires, cables, poles, signs, etc.); exploratory excavation and field location of existing pipe and fittings; disposal of excess materials; cutting and grouting of existing pipe and manholes; furnishing and installation of stone bedding, conduit, caps, plugs, specials, glands, thrust blocking, bolts, jointing material, select or premium compacted backfill material; and the furnishing of all labor, materials, tools and appurtenances necessary to complete the work as specified or as shown.

2.6 MANHOLE REMOVED

Basis of Payment

The unit price shall include trench excavation; sheeting and shoring; dewatering, including all pumping required for water in manhole, underground water, or surface water; support, protection and/or replacement of all existing utilities (conduit, wires, cables, poles, signs, etc.); exploratory excavation and field location of existing pipe and inverts; disposal of excess materials; cutting and removal of existing pipe; furnishing and installation of stone bedding, conduit, caps, plugs, specials, glands, thrust blocking, bolts, jointing material, select or premium compacted backfill material;, and the furnishing of all labor, materials, tools and appurtenances necessary to complete the work as specified or as shown.

2.7 TYPE "C" PAVEMENT REPLACEMENT (ASPHALT), ROADWAY and DRIVEWAY, APRON, OR PARKING LOT (including Golf Cart Path), AS S PER PLAN

Method of Measurement

The quantity to be paid shall be the number of square yards of asphalt pavement completed and accepted in place. The area for measurements will be as shown on the plans, or as otherwise directed in writing by the Engineer.

Basis of Payment

The unit price shall include furnishing and placing all materials, including sealing materials, pavement striping, and furnishing all labor, tools, appliances, equipment and all other appurtenances necessary to complete the work as specified or as shown; including feathering at drives as necessary and butt or tapered edge joints and necessary pavement saw cuts.

2.8 CONCRETE SLAB REPLACEMENT

Basis of Payment

The unit price shall include saw cutting; integral or non-integral curb removal; removal and disposal; furnishing, installation, maintenance, removal, and disposal of temporary materials or temporary courses; preparation for permanent courses; expansion material, placement of slab materials (Class MS concrete), and any additional expenses for cold weather protection.

2.9 GRAVEL ACCESS DRIVE, AS PER PLAN

Method of Measurement

The quantity to be paid shall be the number of square yards of gravel access driveway for temporary access to Sunset Drive with the exception that items shall be performed at the Engineer's direction only.

Basis of Payment

The unit price shall include .removal of existing fencing and other site obstructions as necessary, furnishing, installation, and maintenance of gravel access drive.

2.10 6 INCH REINFORCED CONCRETE PAVEMENT, INTEGRALLY PIGMENTED, SURFACE TEXTURED, INCLUDING REMOVAL AND DISPOSAL, AS PER PLAN

Method of Measurement

The quantity to be paid shall be the number of square yards required for trench repair at Sta. ~3+25.

Basis of Payment

Payment shall be made in accordance with ODOT Item 608 and shall also include all finishing, stamping, and coloring to match existing. Price shall include all costs for labor, materials, tools and appurtenances necessary to complete the work as specified and in accordance with manufacturer's recommendations. Price shall include all finishing, stamping, tooling, and coloring as needed to match existing. Concrete shall be class MS.

2.11 6 INCH SANITARY SEWER LATERAL, AS PER PLAN

Method of Measurement

The quantity to be paid shall be the number of feet directed to be constructed per the CCTV inspections at locations directed by the Engineer. The length for each lateral will be determined by ENGINEER from information provided with the CCTV reports, and as necessary to reconnect to either new or existing sanitary sewers.

Basis of Payment

The unit price shall include furnishing of all labor, materials, tools and appurtenances necessary to complete the lateral re-connection, including all wyes, tees, and fittings and post construction internal pipe televising.

2.12 8" SANITARY SEWER, AS PER PLAN

2.13 12" SANITARY SEWER, AS PER PLAN

2.14 18" SANITARY SEWER, AS PER PLAN

2.15 24" SANITARY SEWER, AS PER PLAN

2.16 8" STORM SEWER, AS PER PLAN

2.17 12" STORM SEWER, AS PER PLAN

Method of Measurement

The quantity to be paid shall be the number of feet measured by the difference in horizontal stationing from center of the downstream manhole to the center of upstream manhole, the tie-in to the existing sewer main, or the end of pipe for stub connections.

Basis of Payment

The unit price of the various sizes and types specified shall be irrespective of class of pipe and depth and if not called out as a separate pay item, shall be full compensation for maintenance of traffic for the duration of the project; earth and/or rock excavation for the pipe and foundation for same, removal of all materials necessary for placing the pipe, furnishing and placing granular or concrete bedding and special backfill as required, testing of compaction, cofferdams, cribs, sheeting and shoring; furnishing, installing and operating necessary pumps, pipes and appurtenances necessary for trench dewatering; sealing or banding all pipe joints where required; furnishing and installing of the pipe jointing materials and all necessary plugs, bulkheads, bends, fittings, specials and branches of a type at least equal to the conduit of which it becomes part; furnishing and installing concrete encasements, protection, verification and/or replacement of all existing utilities, i.e., gas mains, gas connections water mains (including hydrants and their connections to the main), water connections, water wells, septic tanks, sanitary sewers, sanitary connections, storm sewers, storm connections, curb drains, catch basins, culverts, electric or telephone underground cables and/or underground connections if damaged by the Contractor; protection of existing trees or vegetation; joining of the pipe to existing and proposed manholes, catch basins, structures, and other appurtenances as required whether temporary or permanent; pipe adapters and/or couplings needed to connect to existing sanitary sewer irrespective of size; leakage testing; post construction internal pipe televising; disposal of all surplus and unsuitable materials; furnishing and installing temporary stone trench topping of pavement and driveways; removal and replacement of poles, posts, signs, mailboxes, paper boxes, fences, landscape timbers, guardrails, sign wiring, fixtures and other appurtenances; removal and replacement of any damaged curbing, sidewalk, driveways, parking lots and roadways as directed by the Engineer; and the furnishing of all labor, tools, materials and equipment necessary to complete the work as specified or as shown.

2.18 24" CONDUIT IN BORED-IN-PLACE STEEL CASING, AS PER PLAN

Method of Measurement

The quantity to be paid shall be the number of feet of pipe installed in the casing pipe measured along the horizontal pipe length as specified.

Basis of Payment

The unit price shall include furnishing and installing steel casing, carrier pipe, grout/sand fill, bulkheads, excavation of boring and receiving pits regardless of soil and/or rock type; design and installing sheeting and shoring of the boring and receiving pits; dewatering of ground and surface water; support, protection and/or replacement of all existing utilities (conduit, wire, cables, poles, signs, etc.); backfill per typical trench detail, leakage testing; post construction internal pipe televising; and the furnishing of all labor, material, tools and appurtenances necessary to complete the work as specified or as shown.

2.19 CONDUIT INTERNAL TELEVISION INSPECTION, INCLUDING LIGHT CLEANING, AS PER PLAN

Method of Measurement

The quantity to be paid shall be the number of linear feet televised per the specifications as measured centerline to centerline of structures (i.e., manholes, inlet or catch basins, lamp holes, headwalls, outlets, cisterns, etc.) of the existing sewer pipes. If reverse setups are required during television

inspection, the per foot cost of television inspection will be paid only for the actual televised footage between the manholes involved.

Basis of Payment

The unit prices for the various sizes of pipe shall include mobilization, setup, measuring pipe diameters and manhole depths, light cleaning of the sewer using sewer jet, hauling available water for cleaning and dye testing, sewer flow control, televising the sewer pipe and manhole troughs, accurately measuring the location of lateral connections, the use of pipe locating equipment, televising sewer connections by positioning the camera, rotating the camera head, viewing the lateral connections (from the sewer main), and recording the observations, videotapes, inspection logs, and the furnishing of all labor, material, tools and appurtenances necessary to complete the work as specified or as shown. Use of all terrain vehicles (ATVs) as needed for access to all sewers shall be included as necessary. Videotapes and logs shall be turned over to and reviewed by the Owner prior to payment for this item.

- 2.20 JUNCTION CHAMBER, AS PER PLAN
- 2.21 48-in SANITARY MANHOLE, AS PER PLAN
- 2.22 60-in SANITARY MANHOLE, AS PER PLAN
- 2.23 48-in SHALLOW SANITARY MANHOLE, AS PER PLAN
- 2.24 60-in SHALLOW SANITARY MANHOLE, AS PER PLAN

Method of Measurement

The quantity to be paid shall be the number installed per the plans and specifications.

Basis of Payment

The unit price shall be irrespective of the depth of the structures, and shall include the furnishing and construction in place of the manholes and junction chambers complete with excavation; foundation; backfill; frame and cover; steps; concrete; steel reinforcement; lining material; bricks; mortar; plastering; precast manhole sections; transition; flexible joints; granular backfill under proposed or existing pavements, walks, drives, existing drainage structures, and disposal of all undesirable material; testing and inspections; and the furnishing of all labor, materials, tools and appliances necessary to complete the work as specified or as shown. The unit price shall also include all sewer stubs and plugs or connection of existing sewers to the structure as indicated on the contract drawings or directed by the Engineer. Adjustments in final casting elevations of plus or minus one (1) foot shall be included in the price for each structure.

- 2.25 LAWN RESTORATION INCL. LINEAL GRADING & TOPSOIL

Method of Measurement

The quantity to be paid shall be the number of square yards installed per the plans and calculated for actual disturbed areas restored within the pay limits.

Basis of Payment

The unit price shall include furnishing and placement of topsoil, testing of topsoil, finish grading, seed, fertilizers, lime, water, maintenance, mowing, and all else necessary to establish a grass turf over all disturbed areas to be grassed.

2.26 SODDING STAKED (Golf Course)

Method of Measurement

The quantity to be paid shall be the number of square yards installed per the plans and calculated for actual disturbed areas restored within the pay limits.

Basis of Payment

The unit price shall include furnishing and placement of sodding, testing of sod, finish grading, fertilizers, lime, water, maintenance, mowing, and all else necessary to establish a grass turf over all disturbed golf course areas to be sodded.

2.27 BYPASS PUMPING, AS PER PLAN

Basis of Payment

The lump sum price shall include all costs associated with temporary bypass pumping of the existing sewer flows as necessary and for the duration required to perform the work as specified or as shown in the plans; bypass pumping equipment shall be of sufficient capacity to handle normal flows plus additional flows that may occur during inclement weather conditions, so as to not negatively impact construction; and, the furnishing of all labor, materials, tools, and appurtenances necessary to complete the work as specified or as shown.

2.28 WETLAND RESTORATION

Method of Measurement

The quantity to be paid shall be the number of square yards installed per the plans and calculated for actual disturbed areas restored within the pay limits

Basis of Payment

The unit price shall include furnishing approved wetlands plants like what exists prior to the construction and placement of topsoil, testing of topsoil, finish grading, seed, fertilizers, lime, water, maintenance, mowing (if appropriate), and all else necessary to re-establish the wetlands flora over all disturbed wetland areas to be restored.

2.29 TEMPORARY SEDIMENT AND EROSION CONTROL, AS PER PLAN

Basis of Payment

The lump sum price shall include any and all labor, equipment, and materials including but not limited to straw bales, silt fence, check dams, silt ponds, and temporary seeding to provide sediment and erosion control commensurate with the Contractor's means, methods, work schedule, and in accordance with plan details and specifications, if any.

2.30 UTILITY COMPANY CHARGES ALLOWANCE

Basis of Payment

A Utility Allowance has been included in the bid proposal to be utilized as directed by the Engineer for direct costs charged by utility company(s) associated with the temporary removal, relocation or support of utility poles, existing overhead lights, utility wires overhanging the proposed sewer, cables, anchors, water main or service connections, gas main or service connections, or other work which can be performed only/exclusively by the utility company. Payment shall be made for only work which has the prior approval of the Engineer.

The amount to be paid to the Contractor and the amount utilized in the allowance shall be the invoice amount from the utility company plus 8% mark-up on the invoice amount for overhead and profit and per the contract provisions regarding retainer. Any costs to the Contractor due to this item for insurance, bonding, etc., shall be reflected in the cost of other items.

Invoices for all for all work completed by the utility company(s) or others shall be submitted as evidence of the work completed on the project.

No payment for this item will be made to the Contractor for utility work required when resulting from the Contractor's construction methods or rework due to his negligence or construction methods.

Any portion of the allowance not utilized shall be credited to the Owner.

END OF SECTION