
RE: 2018 WATER SYSTEM IMPROVEMENTS
FOR THE OCONEE COUNTY UTILITY DEPARTMENT
OCONEE COUNTY BOARD OF COMMISSIONERS
INVITATION TO BID#1807-03

PROJECT NO. E16-113

FROM: PRECISION PLANNING, INC. (PPI)
(770) 267-8800

TO: PROSPECTIVE BIDDERS

THIS ADDENDUM FORMS A PART OF THE CONTRACT DOCUMENTS AND MODIFIES THE ORIGINAL BIDDING DOCUMENTS FOR THE REFERENCED PROJECT DATED AUGUST 2017.

The following items of the contract documents are modified as part of this addendum:

(1) This project is to be bid as two separate contracts:

Contract 1

- Includes WORK shown in the plans and specifications for the following project areas:
 - + Spartan Lane Water Meter and Water Main
 - + White Street - Thrasher Drive Water Main
 - + Macon Highway Water Main
 - + Old Bishop Road Water Main
 - + New High Shoals Road Water Meter Vault Installation
 - + Athens Academy Pump Station Flow Meter Upgrade
- Bids for Contract 1 shall be submitted on a unit price basis for each item of WORK listed under Items 1 - 10 and EW.1 - EW.7 in the Bid Schedule in Section 00300.
- Measurement of quantities for WORK under Contract 1 for which payment will be made shall be in accordance with Section 01025 of the Specifications.

Contract 2

- Includes construction and repair of small water mains including site work, appurtenances, labor and materials necessary to complete the WORK. The WORK shall include a number of tasks to be performed by the CONTRACTOR as issued through June 30, 2018 in accordance with plans and specifications issued by Oconee County.
- Bids for Contract 2 shall be submitted on a unit price basis for each item of WORK listed in the Bid Schedule in Section 00300-A.
- Measurement of quantities for WORK under Contract 2 for which payment will be made shall be in accordance with Section 01025-A of the Specifications.
- Copies of Sections 00300-A and 01025-A are attached to this addendum.

(2) Prospective bidders have the option to submit a bid for Contract 1 only or for Contract 2 only or for both Contracts 1 and 2.

- (3) Contract Time: As noted in Section 00030, Bid Advertisement, Section 00300, Bid Form, and elsewhere in the Contract Documents, the time of completion for all WORK associated with Contract 1 is reduced from THREE HUNDRED SIXTY-FIVE (365) consecutive calendar days to ONE HUNDRED EIGHTY (180) consecutive calendar days.
- (4) Project Sequencing - Contract 1: WORK under Contract 1 shall be initiated with construction of the White Street - Thrasher Drive Water Main project area. The sequencing of the remaining Contract 1 project areas shall be at the CONTRACTOR's discretion.

Once work on a project area has been started, CONTRACTOR's work on said project area shall proceed in a linear mode from one end of the project to the other. Interruptions in work activities in any project area shall be allowed only where warranted for sequencing of work within the project area or in the event of inclement weather or other conditions or events outside of the control of the CONTRACTOR.

CONTRACTOR shall be allowed to work on more than one project area at a time as long as the activities do not cause unreasonable delays in work activities.

(5) **Ductile Iron Pipe for Old Bishop Road Water Main**

- a. The Bid Form (Section 00300) for Contract 1 has been revised to include Mandatory Bid Alternate Item 7.11.1 to install 8" diameter ductile iron pipe instead of 8" C900 DR 18 PVC Pipe where indicated in the drawings.
- b. Ductile iron pipe for Mandatory Bid Alternate Item 7.11.1 shall be provided and installed in accordance with Oconee County Standards with its exterior base-coated with a layer of arc-sprayed zinc per ISO 8179. The mass of the zinc applied shall be 200 g/m² (0.6554 oz/ft²) of pipe surface area. A finishing layer of asphaltic topcoat shall be applied to the zinc. The mean, dry film thickness of the finishing layer shall not be less than 3 mils with a local minimum not less than 2 mils. The coating system shall conform in every respect to ISO 8179-1 "*Ductile Iron Pipes - External zinc-based coating - Part 1: Metallic zinc with finishing layer, Second Edition 2004-06-01.*"
- c. A copy of the revised Bid Form for Contract 1 is attached to this addendum to address the addition of Mandary Bid Alternate Item 7.11.1.

END OF ADDENDUM NO. 1

SECTION 00300-A

CONTRACT 2 - BID FORM

**INDEFINITE DELIVERY/INDEFINITE QUANTITY (IDIQ) CONTRACT
FOR THE CONSTRUCTION, REPLACEMENT AND MAINTENANCE
OF SMALL WATER MAINS FOR THE
OCONEE COUNTY BOARD OF COMMISSIONERS**

THIS BID IS SUBMITTED TO:

Oconee County Board of Commissioners
P.O. Box 1527, Room 203
23 North Main Street
Watkinsville, Georgia 30677

(Hereinafter called "Owner")

THIS BID IS SUBMITTED BY:

(Name)
(Address)

(Telephone)

(Hereinafter called "Bidder")

BIDDER, in compliance with the Advertisement for Bids for the construction of this project, having examined the Drawings and Specifications with related documents and the site of the proposed work, and being familiar with all of the conditions surrounding the construction of the proposed project, including the availability of materials and labor, hereby proposes to furnish all labor, materials and supplies, and to construct the project in accordance with the CONTRACT DOCUMENTS, within the time set forth therein, and at the price(s) stated below. This price(s) is to cover all expenses including overhead and profit incurred in performing the Work required under the CONTRACT DOCUMENTS, of which this proposal is a part.

BID SCHEDULE – CONTRACT 2

**INDEFINITE DELIVERY/INDEFINITE QUANTITY (IDIQ) CONTRACT FOR THE
CONSTRUCTION, REPLACEMENT AND MAINTENANCE OF SMALL WATER MAINS
FOR THE OCONEE COUNTY BOARD OF COMMISSIONERS**

Item			Est. No.	Unit Price Bid	Total for Item
<u>No.</u>	<u>Description</u>	<u>Unit</u>	<u>of Units</u>	<u>(Dollars and Cents)</u>	<u>(Dollars and Cents)</u>
1.	Erosion and Sedimentation Control				
a.	Construction Exit	EA	1	_____	_____
b.	Silt Fence (non-reinforced)	LF	400	_____	_____
c.	Silt Fence (reinforced)	LF	400	_____	_____
d.	Stone Check Dams	EA	10	_____	_____
e.	Rip Rap	SY	50	_____	_____
f.	Grassing	LF	1,000	_____	_____
g.	Sodding	SF	300	_____	_____
2.	Furnish and Install Water Main				
a.	12-Inch Ductile Iron Pipe	LF	1,000	_____	_____
b.	8-Inch Ductile Iron Pipe	LF	1,000	_____	_____
c.	6-Inch Ductile Iron Pipe	LF	1,000	_____	_____
d.	12-Inch C900 DR18 PVC Pipe	LF	1,000	_____	_____
e.	8-Inch C900 DR18 PVC Pipe	LF	1,000	_____	_____
f.	6-Inch C900 DR18 PVC Pipe	LF	1,000	_____	_____
g.	Labor and Equipment Only to Install 6-Inch or 8-Inch Water Main	LF	1,000	_____	_____
h.	Labor and Equipment Only to Install 10-Inch or 12-Inch Water Main	LF	1,000	_____	_____
3.	Restrained Joints for Water Main				
a.	12-Inch Field-Lock Gaskets	EA	10	_____	_____
b.	8-Inch Field-Lock Gaskets	EA	10	_____	_____
c.	6-Inch Field-Lock Gaskets	EA	10	_____	_____
4.	Ductile Iron Fittings				
a.	6- through 12-Inch	TON	4.0	_____	_____
5.	Valves				
a.	12-Inch Gate Valve	EA	5	_____	_____
b.	8-Inch Gate Valve	EA	5	_____	_____
c.	6-Inch Gate Valve	EA	5	_____	_____
6.	Fire Hydrants				
a.	5-1/4-Inch	EA	10	_____	_____
b.	Vertical Extensions	VF	10	_____	_____
c.	Remove & Replace Existing Fire Hydrants	EA	5	_____	_____

BID SCHEDULE – CONTRACT 2

**INDEFINITE DELIVERY/INDEFINITE QUANTITY (IDIQ) CONTRACT FOR THE
CONSTRUCTION, REPLACEMENT AND MAINTENANCE OF SMALL WATER MAINS
FOR THE OCONEE COUNTY BOARD OF COMMISSIONERS**

Item No.	Description	Unit	Est. No. of Units	Unit Price Bid (Dollars and Cents)	Total for Item (Dollars and Cents)
7.	Connection to Existing Water Main				
a.	12x8-Inch - TS&V	EA	1	_____	_____
b.	12x6-Inch - TS&V	EA	1	_____	_____
c.	8x8-Inch - TS&V	EA	1	_____	_____
d.	8x6-Inch - TS&V	EA	1	_____	_____
e.	6x6-Inch - TS&V	EA	1	_____	_____
f.	12-Inch Wet Cut-In w/ Solid Sleeve	EA	1	_____	_____
g.	8-Inch Wet Cut-In w/ Solid Sleeve	EA	1	_____	_____
h.	6-Inch Wet Cut-In w/ Solid Sleeve	EA	1	_____	_____
i.	8-Inch Insertion Valve	EA	1	_____	_____
j.	6-Inch Insertion Valve	EA	1	_____	_____
8.	Water Service Connections				
a.	3/4-Inch Short Side Service	EA	1	_____	_____
b.	3/4-Inch Long Side Service	EA	1	_____	_____
c.	1-Inch Short Side Service	EA	1	_____	_____
d.	1-Inch Long Side Service	EA	1	_____	_____
9.	Encasement and Thrust Collars				
a.	Concrete	CY	3	_____	_____
10.	Removing and Replacing Pavement				
a.	Asphalt	LF	100	_____	_____
b.	Concrete	LF	100	_____	_____
c.	Asphalt Resurfacing, 1-1/2"	SY	200	_____	_____
11.	Bored Road Crossings				
a.	20-Inch Jack and Bored Steel Casing	LF	60	_____	_____
b.	16-Inch Jack and Bored Steel Casing	LF	60	_____	_____
c.	12-inch Free Bore	LF	20	_____	_____
d.	8-inch Free Bore	LF	20	_____	_____
e.	6-inch Free Bore	LF	20	_____	_____
12.	Rock Excavation				
a.	Trench Rock Excavation	CY	50	_____	_____

BID SCHEDULE – CONTRACT 2

**INDEFINITE DELIVERY/INDEFINITE QUANTITY (IDIQ) CONTRACT FOR THE
CONSTRUCTION, REPLACEMENT AND MAINTENANCE OF SMALL WATER MAINS
FOR THE OCONEE COUNTY BOARD OF COMMISSIONERS**

Item			Est. No.	Unit Price Bid	Total for Item
No.	Description	Unit	of Units	(Dollars and Cents)	(Dollars and Cents)
13.	Clean-up, Testing and Disinfection	LF	1,000	_____	_____
14.	Cash Allowance				
a.	Soil Compaction Testing	Test	1	_____	_____
b.	Concrete Testing	Test	1	_____	_____
c.	Blasting Monitoring per Structure	Day	1	_____	_____
d.	NPDES Permit Monitoring	Month	1	_____	_____
15.	Mobilization				
a.	Task Value < \$10,000.00	EA	1	_____	_____
b.	Task Value \$10,000.00 - \$49,999.99	EA	1	_____	_____
c.	Task Value \$50,000.00 - \$99,999.99	EA	1	_____	_____
d.	Task Value \$100,000.00 and above	EA	1	_____	_____
16.	Pothole by Vacuum Extraction				
a.	4 to 6-Foot Cover	EA	15	_____	_____

**** UNIT PRICE MULTIPLIER FOR DEGREE OF TASK DIFFICULTY ****

17.	Unit Price Degree of Difficulty Multiplier by Installation Type			
a.	Rural Road Right-of-Way	MULTIPLIER	<u>1.0</u>	_____
b.	Residential Subdivision	MULTIPLIER	_____	_____
c.	Urban/Commercial Corridor	MULTIPLIER	_____	_____

TOTAL AMOUNT BID – CONTRACT 2, ITEMS 1 THROUGH 16, INCLUSIVE

Dollars & Cents (\$_____)

Price in Words: _____

NOTE: Amounts shall be shown in words and figures; the amount written in words shall take precedence.

BID SCHEDULE – CONTRACT 2

**INDEFINITE DELIVERY/INDEFINITE QUANTITY (IDIQ) CONTRACT FOR THE
CONSTRUCTION, REPLACEMENT AND MAINTENANCE OF SMALL WATER MAINS
FOR THE OCONEE COUNTY BOARD OF COMMISSIONERS**

BIDDER hereby agrees to commence work under this contract on or before a date to be specified in a written "Notice to Proceed" from the OWNER. The WORK shall be completed within the time allowed for each work task issued through July 30, 2018.

BIDDER acknowledges receipt of the following addenda:

Addendum No.	Date Received

BIDDER agrees to perform all of the construction of the project complete with appurtenances and accessory work described in the Specifications and shown on the Drawings for the above scheduled price(s).

The above scheduled price(s) shall include all labor, materials, bailing, shoring, removal, overhead, profit, insurance, etc., to cover the finished work of the several kinds called for.

BIDDER understands that OWNER reserves the right to reject any or all bids and to waive any informalities in the bidding.

BIDDER agrees that his bid shall be good and may not be withdrawn for a period of sixty (60) calendar days after the scheduled closing time for receiving bids.

SECTION 01025-A

CONTRACT 2 - MEASUREMENT AND PAYMENT

PART 1 GENERAL

1.01 SCOPE OF WORK

This Section describes the methods by which measurement will be made of the quantities for which payment will be made for the PROJECT.

1.02 MEASUREMENT OF WORK

- A. WORK shall be measured by the ENGINEER or his representative, with assistance from the CONTRACTOR prior to preparation of a payment request by the CONTRACTOR.
- B. Unit quantities that are measured in place shall be measured monthly. The CONTRACTOR shall give the ENGINEER a minimum of two days notice for making all required measurements.
- C. Materials that must be measured as delivered shall be measured at the time of delivery by the ENGINEER or his representative; the CONTRACTOR shall provide sufficient advance notice so that such measurements can be made.
- D. WORK completed shall be measured for completion against the schedule of values provided by the CONTRACTOR in accordance with the General Conditions. Related work necessary for a complete and operational job, such as relocation of mail boxes removal of trees, relocation of utilities, field engineering, clearing and grubbing, traffic control, etc., not specifically identified as a pay item shall be included in the unit price bid. No additional payments will be made for such activities.

1.03 PROGRESS PAYMENTS

- A. Progress payments shall be based on the quantity of units installed.
- B. All items of WORK not specifically listed in the Bid Schedule shall be considered incidental to the construction, and the cost of all such work and material shall be included in the prices bid for various items listed.
- C. All items listed for measurement and payment shall include all machinery, plant, materials and labor, etc., to successfully and satisfactorily complete WORK specified.
- D. Payment: The CONTRACTOR will receive payment only for the items listed in the Bid Schedule of his contract, and no separate payments will be made for the work under any section of the CONTRACT DOCUMENTS except as provided for in the Bid Form. Where measurements are required to be made by the ENGINEER, for the payment of a pay item, the failure of the CONTRACTOR to give the adequate notification or failure of the CONTRACTOR to give the ENGINEER assistance for the measurement shall result in the forfeiture of payment for the work or item which was not measured.
- E. WORK to be paid for as a "Lump Sum" shall be measured for completion against the "Schedule of Values" provided by the CONTRACTOR. The "Schedule of Values" shall be submitted at the preconstruction conference and shall include quantities and prices of items aggregating the total "Lump Sum" and will subdivide the work into component parts in sufficient detail to serve as the basis for progress payments during construction.

PART 2 PRODUCTS

2.01 STORED MATERIALS

Partial payment shall be made for approved materials stored at the project site, provided invoices for said materials are furnished in accordance with payment request submittal.

PART 3 EXECUTION

3.01 SITE PREPARATION

No separate measurement or payment will be made for site preparation of water lines or other pipes, nor for any other appurtenance facilities such as valves, fire hydrants, etc. Payment for all work shall be included in the unit prices bid per linear foot of the various sizes and type of pipe laid or for the number of units installed for valves, fire hydrants, etc. as provided for in contract bid Schedule.

3.02 EARTHWORK FOR UTILITIES

No separate measurement or payment will be made for trench earth excavation for waterlines, nor for any other appurtenant facilities such as valves, fire hydrants, and pipe protection or encasement. Payment for all such excavation shall be included in the unit prices bid per linear foot of the various sizes and type of pipe laid as provided for in contract Bid Schedule. Where special bedding or cradles are shown on Drawings, or required by ENGINEER, no allowance shall be made for extending earth excavation in trenches to the bottom of such bedding or cradles.

3.03 CONSTRUCTION EXIT

The basis of payment for this item shall be the actual number installed by the CONTRACTOR. This amount, so paid, shall be compensation in full for all labor, equipment and materials necessary to provide and maintain the construction exit throughout this contract.

3.04 SILT FENCE

- A. Quantities for each type of silt fence shall be expressed in linear feet in accordance with the plans and specifications. Silt fence used in sediment traps shall be measured and paid for under this item. Dimensions shall be measured and the quantity shall be calculated from such measured dimensions.
- B. Payment for silt fence installed under these specifications shall be made for the quantities determined in the manner specified above. This amount, so paid, shall be compensation in full for furnishing all labor, materials, tools, equipment, services and other work in connection with or incidental to the construction of this bid item. Specifically, this bid item shall include the costs of removing the accumulated silt to maintain effective filtration and removal of the silt fence itself after soil stabilization is achieved to the satisfaction of the OWNER. Unit price bid shall include all costs required for inspection, monitoring and reporting of the silt fence.

3.05 STONE CHECK DAMS

The basis of payment for this item shall be the actual number installed by the CONTRACTOR. This amount, so paid, shall be compensation in full for furnishing all labor, materials, tools,

equipment, services and other work in connection with or incidental to the construction of this bid item. Specifically, this bid item shall include the costs of removing the accumulated silt to maintain effective filtration and removal of the stone check dam itself after soil stabilization is achieved to the satisfaction of the OWNER. Unit price bid shall include all costs required for inspection, monitoring and reporting of the silt fence.

3.06 RIPRAP

- A Quantities of riprap shall be expressed in horizontal square yards of material placed in accordance with the plans and specifications. Horizontal dimensions shall be measured and the quantity shall be calculated from such measured dimensions.
- B. Payment for riprap furnished and installed under these specifications shall be made for the quantities determined in the manner specified above. This amount, so paid, shall be compensation in full for furnishing all labor, materials, tools, plant equipment, services and other work in connection with or incidental to the installation of this bid item.

3.07 GRASSING

Payment for all permanent grassing shall be bid per linear foot of construction and shall include all materials, machinery and labor necessary to maintain vegetated areas until plant establishment has been achieved to the satisfaction of the ENGINEER and OWNER.

3.08 WATERLINES

- A. The quantities of the various sizes and types of water main will be measured along the centerline of the pipe from center of fitting to center of fitting or to the end of the pipeline. No deduction will be made for fittings or valves.
- B. The price bid shall include, but not be limited to, the pipe material indicated, all gaskets, bolts, glands, concrete blocking, detection tape and wire, all labor, equipment, clearing and removal and disposal of clearing debris, stripping, storing, and replacement of top soil in lawn and garden areas, excavation, dewatering of trenches, removal and replacement of signs and mailboxes in the path of construction activities, replacement of mailbox approaches, fences, curb and gutter, etc., protection of existing utilities (both overhead and underground), storm pipes, culverts, drainage ditches, all benching, sheeting and bracing, crushed stone bedding, tamping and compaction and backfilling, roadway shoulder repairs, traffic maintenance and protection, dressing and final grading and temporary grassing.

3.09 RESTRAINED JOINTS

Payment for each size and type of restrained joint shall be the actual number installed by the CONTRACTOR. This amount, so paid, shall be compensation in full for furnishing all labor, materials, tools, equipment, services and other work in connection with or incidental to the construction of this bid item.

3.10 DUCTILE IRON FITTINGS

Payment for ductile iron fittings shall be the actual weight in tons (2000 pounds) installed by the CONTRACTOR. This amount, so paid, shall be compensation in full for furnishing all labor, materials, tools, equipment, services and other work in connection with or incidental to the construction of this bid item

3.11 GATE VALVES

- A. The quantities of the various sizes and types of gate valves will be the actual number installed by the CONTRACTOR.
- B. The price bid shall include, but not be limited to, the valve, all labor, necessary equipment, fittings, rodding, blocking, concrete pad, debris cap, valve box or manhole. Gate valves shall be paid for at the unit price bid.

3.12 FIRE HYDRANTS

- A. The quantity of fire hydrants will be the actual number installed by the CONTRACTOR.
- B. The price bid shall include all related appurtenances to construct and install the fire hydrants from the in-line tee to the fire hydrant itself. This price shall include the fire hydrant, all labor, necessary equipment, valve fittings, rodding, blocking, valve box and collar, hydrant valve and tee, and all other related appurtenances. Fire hydrants shall be paid for at the unit price bid.

3.13 FIRE HYDRANT EXTENSIONS

- A. The quantity of fire hydrant extensions will be the vertical feet installed by the CONTRACTOR.
- B. The price bid shall include additional vertical feet of barrel, labor, necessary equipment and all other related appurtenances required to install fire hydrant in excess of amount required for 4.5 feet burial as indicated on the DRAWINGS or directed by OWNER.

3.14 TAPPING SLEEVE AND VALVE

- A. The quantities of the various sizes and types will be the actual number installed by the CONTRACTOR and approved by the ENGINEER.
- B. The price bid shall include, but not be limited to, the valve, tapping sleeve, valve box, valve marker, concrete pad, all labor and necessary equipment. Valves shall be paid for at the unit price bid. No separate payment shall be made for connecting to existing lines.

3.15 WET CUT-INS

The quantities of the various sizes and types will be the actual number installed by the CONTRACTOR. The price bid shall include, but not be limited to, all labor and necessary equipment including sleeves to perform the cut-in to the existing line. Payment under this item shall not include tees, valves or other piping appurtenances to be connected to the existing line via the cut-in.

3.16 INSERTION VALVES

The quantities of the various sizes and types will be the actual number installed by the CONTRACTOR. The price bid shall include, but not be limited to, all labor, materials and necessary equipment, including valves to install the inserting valve into the existing line.

3.17 WATER SERVICE CONNECTIONS

- A. The quantities of the various sizes and types of new service connections complete will be the actual number installed. Short-side and long-side services will be paid for separately.
- B. The unit price bid shall include, but not be limited to, bore under paved roadway (long side only) saddle, corporation stop, backflow preventer, service tubing, meter box, meter and all related materials and labor.

3.18 ENCASEMENT AND THRUST COLLARS

Payment for encasement and thrust collars shall be expressed in cubic yards of concrete installed by the CONTRACTOR. The price bid shall include, but not be limited to, all labor, materials and necessary equipment to install the encasement and thrust collars as shown in the DRAWINGS and/or as required.

3.19 REMOVING AND REPLACING PAVEMENT

- A. The quantities of the various types of pavement repair for which payment will be made shall be expressed in linear feet of paving measured along the centerline of the trench for pipe lines and appurtenances placed in or across existing paved streets and driveways. Where trench excavation cross in paved areas the measurement shall be continuous along the centerline of the main line, with the intervals being measured from the edge of trench to the edge of trench or edge of pavement.
- B. Payment for each type of pavement furnished and installed under these specifications shall be made for the quantities determined in the manner specified above at the applicable contract price. This amount, so paid, shall be compensation in full for furnishing all labor, materials, tools, plant equipment, services and other work in connection with or incidental to the construction. No payment will be allowed for replacing or repairing gravel, chert or unpaved street surfaces.

3.20 BORING AND JACKING

- A. Measurement of all casing pipe shall be made from bulkhead to bulkhead along the centerline of actual casing required. Payment shall be per linear foot of casing for the size bore as provided in Bid Schedule, and shall include the carrier pipe, end seals, spacers, and miscellaneous items necessary to complete installation as specified.
- B. Unit price bid shall include cost of any warning signs and/or flagmen that may be required. CONTRACTOR is to determine need for such, prior to submitting bid price.
- C. No payment shall be made for incomplete or unacceptable borings, for realignment, or for increased length for the convenience of the CONTRACTOR.

3.21 FREEBORES

- A. Measurement of all freebores shall be made from end of bore to end of bore along the centerline of actual bore length. Payment shall be per linear foot of freebore as provided in Bid Schedule, and shall include the carrier pipe and miscellaneous items necessary to complete installation as specified.

- B. Unit price bid shall include cost of any warning signs and/or flagmen that may be required.
- C. No payment shall be made for incomplete or unacceptable bores, for realignment, or for increased length for the convenience of the CONTRACTOR.

3.22 ROCK EXCAVATION

- A. Quantities for rock removal shall be expressed in cubic yards, as defined below, in accordance with the plans and specifications.
- B. If rock is encountered, the CONTRACTOR is to expose the rock for the length of the proposed trench. The OWNER or ENGINEER shall then attain sufficient topographic data to establish the limits of the rock to be excavated.
- C. The quantity of rock to be paid for shall be calculated from the upper surface data obtained to one foot below the pipe invert multiplied by three foot trench width. No additional payment shall be made for benching.

3.23 CLEAN-UP, TESTING AND DISINFECTION

- A. The quantities of the clean-up, testing and disinfection of water lines will be measured along the centerline of the pipe from center of fitting to center of fitting or to the end of the pipeline.
- B. The price bid shall include, but not be limited to, testing, cleanup, and all other work incidental to place the water line as shown or indicated in the CONTRACT DOCUMENTS.

3.24 SOILS AND CONCRETE TESTING ALLOWANCE

The basis of payment for this item shall be on a unit price basis per test. Testing companies shall be chosen by the OWNER. Soil compaction and concrete strength shall be sampled and tested as directed by the OWNER to insure conformance with the specifications and drawings. All incidental overhead/processing/handling costs incurred by the CONTRACTOR for soil or concrete testing shall be included in the unit prices bid per linear foot of the various sizes and types of pipe laid as provided for in the Bid Schedule.

3.25 CONSTRUCTION SURVEYING AND STAKING

No separate measurement or payment will be made for construction surveying or staking of water lines or other pipes, nor for any other appurtenance facilities such as valves, fire hydrants, etc. Payment for all required construction surveying and/or staking work shall be included in the unit prices bid per linear foot of the various sizes and type of pipe laid or for the number of units installed for valves, fire hydrants, etc. as provided for in contract bid Schedule.

3.26 BLASTING MONITORING PER STRUCTURE

The basis of payment for this item shall be on a unit price basis per structure per day. The person or firm monitoring blasting operations shall be approved by the OWNER. The monitoring firm shall perform monitoring of the project site on an as-needed basis if required by site conditions. All incidental overhead/processing/handling costs incurred by the CONTRACTOR for the blasting monitoring shall be included in the unit prices bid per linear foot of the various sizes and types of pipe laid as provided for in the Bid Schedule.

3.27 NPDES PERMIT MONITORING

The basis of payment for this item shall be on a unit price basis per month. The person or firm conducting the NPDES permit specialty work shall be approved by the OWNER. The person or firm shall perform the NPDES inspections, permit monitoring, and reporting in accordance with Georgia EPD regulations. All incidental overhead/processing/handling costs incurred by the CONTRACTOR for NPDES permit monitoring shall be included in the unit prices bid per linear foot of the various sizes and types of pipe laid as provided for in the Bid Schedule.

3.28 PROTECTION, RELOCATION AND RESTORATION OF EXISTING UTILITIES

No separate measurement or payment will be made for protection, relocation and restoration of existing utilities for waterlines or other pipes, nor for any other appurtenant facilities such as valves, fire hydrants, etc. Payment for all such work shall be included in the unit prices bid per linear foot of the various sizes and type of pipe laid as provided for in contract Bid Schedule.

3.29 EXTRA WORK, IF AUTHORIZED IN WRITING BY OWNER

A. Trench Stabilization

A unit price shall be obtained for additional cubic yards of crushed stone bedding for pipe, the extent of which is presently unknown. The price bid shall include the crushed stone bedding, labor and equipment required for the installation of the additional bedding, excavation, dewatering, protection of existing utilities, cleanup and all work incidental to the construction of additional crushed stone bedding.

B. Asphalt Resurfacing

1. The quantities of pavement resurfacing for which payment will be made shall be expressed in square yards of pavement restored across existing paved streets, parking areas and driveways.
2. Payment for pavement furnished and installed under these specifications shall be made for the quantities determined in the manner specified above at the applicable contract price. This amount, so paid, shall be compensation in full for milling and furnishing all labor, materials, tools, plant equipment, services, traffic control and other work in connection with or incidental to the construction.
3. No separate payment shall be made for backfill and compaction required under payment per the Drawings including, but not limited to, graded aggregate base and asphalt binder. This work shall be included in the unit price bid for sanitary sewer pipe.

C. Sodding

1. The quantity to be paid under this item shall be in square feet of trench excavation prepared, limed, fertilized and sodded as shown on the DRAWINGS or as directed by OWNER. Sod purchased and installed or removed and reinstalled will be paid for under this item.
2. Payment for this item shall include all necessary tools, equipment, labor and materials to complete the WORK.

D. Pothole by Vacuum Extraction

1. The number of units paid shall be the actual number of vacuum extractions made by CONTRACTOR as directed in writing by OWNER. This item shall not be used by the CONTRACTOR as a method of payment for spotting utilities or locating valves required for completion of the WORK
2. Payment for this item shall include all necessary tools, equipment, labor and materials to perform exploratory excavations using vacuum extraction. The unit price shall further include full compensation for maintaining traffic, furnishing barricades, warning signals, lights and flagmen. Any and all site restoration and clean-up work associated with potholing by vacuum extraction shall be included in the unit price.

E. Labor and Equipment Only Water Main Installation

1. The number of units paid shall be the linear feet of waterline piping supplied and delivered to the project site by the OWNER and installed by CONTRACTOR as directed in writing by OWNER. This item does not include waterline piping to be supplied and installed by the CONTRACTOR.
2. Payment for this item shall include concrete blocking, detection tape and wire, all labor, equipment, clearing and removal and disposal of clearing debris, stripping, storing, and replacement of top soil in lawn and garden areas, excavation, dewatering of trenches, removal and replacement of signs and mailboxes in the path of construction activities, replacement of mailbox approaches, fences, curb and gutter, etc., protection of existing utilities (both overhead and underground), storm pipes, culverts, drainage ditches, all benching, sheeting and bracing, crushed stone bedding, tamping and compaction and backfilling, roadway shoulder repairs, traffic maintenance and protection, dressing and final grading and temporary grassing.

END OF SECTION

**BID SCHEDULE
2018 WATER SYSTEM IMPROVEMENTS
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<u>Item No.</u>	<u>Description</u>	<u>Unit</u>	<u>Est. No. of Units</u>	<u>Unit Price Bid</u>	<u>Total for Item</u>
1	Geotechnical Testing (Allowance)	LS	1	\$3,000.00 Dollars and Cents Three Thousand and 00/100 (Unit Price in Words)	\$3,000.00
2	Stormwater/Erosion Control Monitoring Program	LS	1	 Dollars and Cents (Unit Price in Words)	
3	Rock Removal	CY	2,200	 Dollars and Cents (Unit Price in Words)	
4	Spartan Lane Water Meter and Water Main Extension				
4.01	Temporary Erosion Control	LS	1	 Dollars and Cents (Unit Price in Words)	
4.02	Video Taping of Water Main Route	LS	1	 Dollars and Cents (Unit Price in Words)	
4.03	Freebore Under Pavement - Complete Including 6" Dia. DIP Carrier Pipe	LF	160	 Dollars and Cents (Unit Price in Words)	
4.04	Remove and Replace Concrete Flume	LS	1	 Dollars and Cents (Unit Price in Words)	
4.05	Fire Hydrant - Complete Including Valve, Tee, Rodding and DIP Lead	EA	1	 Dollars and Cents (Unit Price in Words)	
4.06	6" Dia. Pressure Class 350 DIP, Including Trenching, Fittings, Joint Restraint, etc.	LF	1,074	 Dollars and Cents (Unit Price in Words)	

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<u>Item No.</u>	<u>Description</u>	<u>Unit</u>	<u>Est. No. of Units</u>	<u>Unit Price Bid</u>	<u>Total for Item</u>
4.07	6" Dia. Gate Valves - Complete Including Valve Box, Valve Marker and Concrete Pad	EA	2	_____ Dollars and Cents	_____
				_____ (Unit Price in Words)	
4.08	4" Dia. Gate Valves - Complete Including Valve Box, Valve Marker and Concrete Pad	EA	1	_____ Dollars and Cents	_____
				_____ (Unit Price in Words)	
4.09	Connect to Existing 6" Dia. Water Main with 6" x 4" Tapping Sleeve and Valve	EA	1	_____ Dollars and Cents	_____
				_____ (Unit Price in Words)	
4.10	Connect to Existing 4" Dia. Water Main with Solid Sleeve	EA	1	_____ Dollars and Cents	_____
				_____ (Unit Price in Words)	
4.11	Connect to Existing 6" Dia. Water Main with Solid Sleeve	EA	2	_____ Dollars and Cents	_____
				_____ (Unit Price in Words)	
4.12	4" Dia. Water Main Abandonment	EA	1	_____ Dollars and Cents	_____
				_____ (Unit Price in Words)	
4.13	6" Dia. Water Main Abandonment	EA	1	_____ Dollars and Cents	_____
				_____ (Unit Price in Words)	
4.14	6" Gate Valve Abandonment	EA	1	_____ Dollars and Cents	_____
				_____ (Unit Price in Words)	
4.15	Water Meter Vault Installation	LS	1	_____ Dollars and Cents	_____
				_____ (Unit Price in Words)	

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2018 WATER SYSTEM IMPROVEMENTS
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<u>Item No.</u>	<u>Description</u>	<u>Unit</u>	<u>Est. No. of Units</u>	<u>Unit Price Bid</u>	<u>Total for Item</u>
5	White Street - Thrasher Drive Water Main				
5.01	Temporary Erosion Control	LS	1	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
5.02	Video Taping of Water Main Route	LS	1	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
5.03	Jack and Bore - Complete including 12" Dia. Steel Casing and 6" Dia. DIP Carrier Pipe	LF	130	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
5.04	Asphalt Pavement Cut-Repair	LF	5,910	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
5.05	Concrete Driveway Repair	LF	295	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
5.06	Asphalt Driveway Repair	LF	140	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
5.07	Gravel Driveway Repair	LF	107	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
5.08	Fire Hydrant - Complete Including Valve, Tee, Rodding and DIP Lead	EA	9	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
5.09	Post Hydrant - Complete Including Valve, Tee, Rodding and PVC Lead	EA	4	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	

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<u>Item No.</u>	<u>Description</u>	<u>Unit</u>	<u>Est. No. of Units</u>	<u>Unit Price Bid</u>	<u>Total for Item</u>
5.10	Salvage Existing Fire Hydrant	EA	3	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
5.11	6" Dia. Pressure Class 350 DIP, Including Trenching, Fittings, Joint Restraint, etc.	LF	4,637	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
5.12	2" HDPE Pipe, DR 9, DIPS, including Trenching, Fittings, etc.	LF	1,273	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
5.13	6" Dia. Gate Valves - Complete Including Valve Box, Valve Marker and Concrete Pad	EA	6	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
5.14	2" Dia. Gate Valves - Complete Including Valve Box, Valve Marker and Concrete Pad	EA	3	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
5.15	Connect to Existing 6" Dia. Water Main with 6" x 6" Tapping Sleeve and Valve	EA	1	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
5.16	Connect to Existing 6" Dia. Water Main with 8" x 6" Tapping Sleeve and Valve	EA	2	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
5.17	Connect to Existing 6" Dia. Water Main with Solid Sleeve	EA	1	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
5.18	6" Dia. Water Main Abandonment	EA	3	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	

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2018 WATER SYSTEM IMPROVEMENTS
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<u>Item No.</u>	<u>Description</u>	<u>Unit</u>	<u>Est. No. of Units</u>	<u>Unit Price Bid</u>	<u>Total for Item</u>
5.19	Existing Water System Service Connection Change Over - Short Side	EA	29	_____ Dollars and Cents	_____
				_____ (Unit Price in Words)	
5.20	Existing Water System Service Connection Change Over - Long Side	EA	18	_____ Dollars and Cents	_____
				_____ (Unit Price in Words)	
6	Macon Highway Water Main				
6.01	Temporary Erosion Control	LS	1	_____ Dollars and Cents	_____
				_____ (Unit Price in Words)	
6.02	Video Taping of Water Main Route	LS	1	_____ Dollars and Cents	_____
				_____ (Unit Price in Words)	
6.03	Jack and Bore - Complete including 18" Dia. Steel Casing and 12" Dia. DIP Carrier Pipe	LF	60	_____ Dollars and Cents	_____
				_____ (Unit Price in Words)	
6.04	Freebore Under Pavement - Complete Including 12" Dia. DIP Carrier Pipe	LF	96	_____ Dollars and Cents	_____
				_____ (Unit Price in Words)	
6.05	Asphalt Pavement Cut-Repair	LF	725	_____ Dollars and Cents	_____
				_____ (Unit Price in Words)	
6.06	Gravel Driveway Repair	LF	244	_____ Dollars and Cents	_____
				_____ (Unit Price in Words)	
6.07	Fire Hydrant - Complete Including Valve, Tee, Rodding and DIP Lead	EA	7	_____ Dollars and Cents	_____
				_____ (Unit Price in Words)	

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<u>Item No.</u>	<u>Description</u>	<u>Unit</u>	<u>Est. No. of Units</u>	<u>Unit Price Bid</u>	<u>Total for Item</u>
6.08	Salvage Existing Fire Hydrant	EA	4	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
6.09	12" Dia. Pressure Class 350 DIP, Including Trenching, Fittings, Joint Restraint, etc.	LF	3,045	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
6.10	12" Dia. Gate Valves - Complete Including Valve Box, Valve Marker and Concrete Pad	EA	2	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
6.11	6" Dia. Gate Valves - Complete Including Valve Box, Valve Marker and Concrete Pad	EA	1	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
6.12	Connect to Existing 10" Dia. Water Main with 10" x 10" Tapping Sleeve and Valve	EA	1	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
6.13	Connect to Existing 8" Dia. Water Main with Solid Sleeve	EA	1	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
6.14	Connect to Existing 6" Dia. Water Main with Solid Sleeve	EA	1	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
6.15	6" Dia. Water Main Abandonment	EA	2	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
6.16	Existing Water System Service Connection Change Over - Short Side	EA	6	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	

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<u>Item No.</u>	<u>Description</u>	<u>Unit</u>	<u>Est. No. of Units</u>	<u>Unit Price Bid</u>	<u>Total for Item</u>
6.17	Existing Water System Service Connection Change Over - Long Side	EA	4	_____ Dollars and Cents	_____
				_____ (Unit Price in Words)	
7	Old Bishop Road Water Main				
7.01	Temporary Erosion Control	LS	1	_____ Dollars and Cents	_____
				_____ (Unit Price in Words)	
7.02	Video Taping of Water Main Route	LS	1	_____ Dollars and Cents	_____
				_____ (Unit Price in Words)	
7.03	Jack and Bore - Complete including 16" Dia. Steel Casing and 8" Dia. PVC Carrier Pipe	LF	30	_____ Dollars and Cents	_____
				_____ (Unit Price in Words)	
7.04	Asphalt Pavement Cut-Repair	LF	92	_____ Dollars and Cents	_____
				_____ (Unit Price in Words)	
7.05	Concrete Driveway Repair	LF	45	_____ Dollars and Cents	_____
				_____ (Unit Price in Words)	
7.06	Asphalt Driveway Repair	LF	54	_____ Dollars and Cents	_____
				_____ (Unit Price in Words)	
7.07	Gravel Driveway Repair	LF	117	_____ Dollars and Cents	_____
				_____ (Unit Price in Words)	
7.08	Sidewalk Repair	LF	10	_____ Dollars and Cents	_____
				_____ (Unit Price in Words)	

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<u>Item No.</u>	<u>Description</u>	<u>Unit</u>	<u>Est. No. of Units</u>	<u>Unit Price Bid</u>	<u>Total for Item</u>
7.09	Fire Hydrant - Complete Including Valve, Tee, Rodding and DIP Lead	EA	10	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
7.10	Salvage Existing Fire Hydrant	EA	1	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
7.11	8" Dia. C900 DR 18 PVC Pipe, including Trenching, Fittings, Joint Restraint, etc.	LF	8,472	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
7.12	8" Dia. Gate Valves - Complete Including Valve Box, Valve Marker and Concrete Pad	EA	6	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
7.13	6" Dia. Gate Valves - Complete Including Valve Box, Valve Marker and Concrete Pad	EA	2	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
7.14	Connect to Existing 6" Dia. Water Main with 6" Solid Sleeve	EA	1	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
7.15	Minor Creek Crossing for 8" Dia. Restrained Joint Pipe – complete	LF	20	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
7.16	New 3/4" Service Connection - Short Side	EA	7	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
7.17	New 3/4" Service Connection - Long Side	EA	6	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	

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<u>Item No.</u>	<u>Description</u>	<u>Unit</u>	<u>Est. No. of Units</u>	<u>Unit Price Bid</u>	<u>Total for Item</u>
7.18	Check Valve Manhole	LS	1	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
8	New High Shoals Road Water Vault Meter Installation	LS	1	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
9	Athens Academy Pump Station Flow Meter Upgrade	LS	1	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
10	Landscaping Allowance	LS	1	<u>\$12,000.00</u>	<u>\$12,000.00</u>
				Dollars and Cents	
				<u>Twelve Thousand and 00/100</u>	
				(Unit Price in Words)	
*****EXTRA WORK, IF AUTHORIZED BY THE OWNER*****					
EW.1	Additional Crushed Stone Bedding, including Excavation of Unsuitable Material	CY	500	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
EW.2	Sod Installation in Lieu of Seeded Grassing	SY	500	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
EW.3	Unsuitable Backfill Materials in Pavement Cuts	CY	150	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
EW.4	Polyethylene Encasement	LF	600	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
EW.5	Rock Bore Adder for 12" Dia. Steel Casing	LF	75	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	

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<u>Item No.</u>	<u>Description</u>	<u>Unit</u>	<u>Est. No. of Units</u>	<u>Unit Price Bid</u>	<u>Total for Item</u>
EW.6	Rock Bore Adder for 16" Dia. Steel Casing	LF	30	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
EW.7	Rock Bore Adder for 18" Dia. Steel Casing	LF	45	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	

TOTAL AMOUNT BASE BID

Dollars & Cents (\$ _____)

Price in Words: _____

NOTE: Amounts shall be shown in words and figures; the amount written in words shall take precedence.

MANDATORY ALTERNATE BID FOR ITEM NO. 7.11

7.11.1	8" Dia. Pressure Class 350 DIP, Including Trenching, Fittings, Joint Restraint, etc.	LF	8,472	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	

**BID SCHEDULE
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BIDDER hereby agrees to commence work under this contract on or before a date to be specified in a written "Notice to Proceed" from the OWNER and to fully complete WORK within a total construction time of three hundred sixty-five (365) consecutive calendar days of the date specified in this "Notice to Proceed".

BIDDER acknowledges receipt of the following addenda:

Addendum No.	Date Received

BIDDER agrees to perform all of the construction of the project complete with appurtenances and accessory work described in the Specifications and shown on the Drawings for the above scheduled price(s).

The above scheduled price(s) shall include all labor, materials, bailing, shoring, removal, overhead, profit, insurance, etc., to cover the finished work of the several kinds called for.

BIDDER understands that OWNER reserves the right to reject any or all bids and to waive any informalities in the bidding.

BIDDER agrees that his bid shall be good and may not be withdrawn for a period of sixty (60) calendar days after the scheduled closing time for receiving bids.

