
RE: EPPS BRIDGE ROAD FORCE MAIN UPGRADE
FOR THE OCONEE COUNTY UTILITY DEPARTMENT
OCONEE COUNTY BOARD OF COMMISSIONERS
INVITATION TO BID#FY1706-15

PROJECT NO. E14-229B

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 JUNE 2017.

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

(1) **Instructions to Bidders: Section 00030**

Regarding submittal of bids, the correct address of the office of the Purchasing Officer is Suite 203, 23 N. Main Street, Watkinsville, Georgia, 30677.

(2) Except where otherwise noted in the Contract Documents, all construction methods, procedures and materials shall conform to the January 2014 Edition of the Oconee County Utility Department Water and Wastewater Standards and Specifications. Copies of the Standards can be obtained by contacting Natalie Pifer with Precision Planning, Inc. (PPI) by telephone at (770) 267-8800 or by e-mail at 861np@ppi.us. Copies are also available on the Oconee County website. Copies are also being transmitted by e-mail to all plan holders and are available to all plan holders on the Precision Planning, Inc. ftp website.

(3) Construction shall conform to the details shown on the bid plan sheets and as added by addendum.

(4) Air Release/Vacuum Valve: Add ARI, USA as an approved manufacturer.

(5) As of the date of this addendum, easement acquisition is on-going for the section of force main to be installed on the Kittle property (Sta 74+30+/- to Sta 82+75+/-). If these easements have not been acquired by the Notice to Proceed date, Oconee County shall adjust the Contractor's date of completion to account for any subsequent delay in the Contractor's work schedule as a result of the delay in obtaining these easements.

(6) Manhole Lining: Manhole liner shall be in accordance with Specification Section 02763. A copy of Section 02763 is attached to this addendum.

(7) Measurement and Payment (Section 01025): Under Article 3.32, the description of measurement and payment for additional crushed stone bedding is herein designated as Item "A - Additional Crushed Stone Bedding" to differentiate these requirements from additional EXTRA WORK items as described elsewhere in this addendum.

(8) **Sodding**

a. The Bid Form (Section 00300) has been revised to include Item EW.2 to install sod in lieu of grass in areas as directed and authorized by Owner.

b. Measurement and Payment (Section 01025): The following item is added to Item 3.32 for the installation of sod in lieu of seeded grass:

B. Sod Installation in Lieu of Seeded Grassing

A unit price shall be obtained for sod installation in lieu of seeded permanent grassing, the extent of which is presently unknown. Quantities shall be expressed in square yards of sod installed. Payment for sod shall reflect the net increase in cost to install sod instead of seeded permanent grassing as included in the unit bid price for force main and shall include the furnishing of all labor, materials, tools, equipment, services and other work in connection with or incidental to the bid item.

(9) Silt Fence: C-Pop silt fence is an acceptable alternative to Type C silt fence.

(10) **HDPE Force Mains: Section 02731**

Delete Article 2.01.F.

(11) Megalugs are required for all fittings connecting DIP and PVC force main piping.

(12) Thrust blocking is not required for HDPE fittings.

(13) **Force Main Abandonment: Bid Item 11.08**

Regarding General Note 28 and Note 4 on Plan Sheets 2 and 4, respectively, Contractor shall coordinate with Owner in draining of the existing 6" force main prior to cutting and plugging the existing 6" force main as indicated. Owner shall be responsible for operations at Epps Bridge Road Pump Station to allow drainage from force main into wetwell as well as supply of a by-pass pump and/or pump trucks necessary to prevent overflowing of the wetwell. Force main abandonment shall be scheduled only after the new force main is completed and ready to receive flows to include the installation of a by-pass connection as described elsewhere in this addendum.

(14) **By-Pass Connection**

a. A by-pass connection shall be installed on the new 12" force main at Sta 10+15+/- . The by-pass connection shall be constructed in accordance with attached Exhibit Add 1.1.

b. The Bid Form (Section 00300) has been revised to include Item 11.10 for the by-pass connection.

c. Measurement and Payment (Section 01025): The following item is added to Section 01025 for the by-pass connection:

3.33 BY-PASS CONNECTION

The basis of payment for this item shall be lump sum to include, but not be limited to, all labor, equipment and material shown or indicated, earthwork, dewatering, piping, concrete, connections, coatings, compaction, backfilling, cleanup, and all other items required to install the by-pass connection as specified or indicated in the CONTRACT DOCUMENTS.

(15) Lining for Ductile Iron Pipe and Fittings: Regarding General Note on Plan Sheet 2, all ductile iron pipe and fittings shall be lined with 40 mils (dft) Induron Protecto 401.

(16) Contractor shall be required to clear to at least the limits of all permanent easements and at least 10 feet to each side of the force main from the end of the existing pavement on Jennings Mill Parkway (Sta 63+80+/-) to the upstream end of the casing crossing Athens Loop 10 (Sta 70+75+/-). Temporary construction easements and highway rights-of-way - except where otherwise indicated - shall be cleared as needed by the Contractor.

(17) Temporary Water (Section 01515): Owner shall be responsible for the cost of water used for flushing and testing of the force main and other uses as needed for completion of the work. All water used shall be metered by Owner-supplied meter.

- (18) Landscaping Allowance (Bid Item 12): The landscaping allowance will include replacement of ornamental shrubs and plants destroyed or damaged within the project limits. The Contractor is urged to avoid disturbance to flower beds, etc. if practicable.
- (19) **Bedding for HDPE Force Main**
- Article 3.02.3: Bedding shall be placed in accordance with Detail PL43.
- (20) Manhole inverts shall be constructed in accordance with attached Exhibit Add 1.2.
- (21) Curb and Gutter Repair (Bid Item 8.04): Quantities are revised to include repair of 650 LF on Tanglebrook Drive and 6 LF at corner of Old Epps Bridge Road and Jennings Mill Parkway.
- (22) **Open Trench Installation of Force Main in Lieu of Freebore**
- a. The Bid Form (Section 00300) has been revised to include Item EW.3.1 for open trench installation of force main on side streets in lieu of freebore installation as directed and authorized by Owner.
 - b. The Bid Form (Section 00300) has been revised to include Item EW.3.2 for open trench installation of force main on concrete driveways in lieu of freebore installation as directed and authorized by Owner.
 - c. The Bid Form (Section 00300) has been revised to include Item EW.3.3 for open trench installation of force main on asphalt driveways in lieu of freebore installation as directed and authorized by Owner.
 - d. The Bid Form (Section 00300) has been revised to include Item EW.3.4 for open trench installation of force main on gravel driveways in lieu of freebore installation as directed and authorized by Owner.
 - e. Measurement and Payment (Section 01025): The following item is added to Item 3.32 for open trench installation of force main on side streets and driveways in lieu of freebore installation as directed and authorized by Owner:
 - C. **Open Trench Installation of Force Main in Lieu of Freebore**

A unit price shall be obtained for each type of surface to be crossed when using open trench installation of force main in lieu of freebore, the extent of which is presently unknown. Quantities shall be expressed in linear feet of force main piping along the centerline of the trench placed across the paved streets and driveways. Payment for each type of surface crossed 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, saw cutting, removal and disposal of existing pavement materials, force main piping, pavement materials, compaction and backfilling, tools, plant equipment, services, testing, cleanup and other work in connection with or incidental to the construction.
 - f. Any rock encountered in the course of open trench installation of force main in lieu of freebore will be paid for separately under the bid item for rock removal.
- (23) **Curb and Gutter Repair for Open Trench Installation of Force Main in Lieu of Freebore**
- a. The Bid Form (Section 00300) has been revised to include Item EW.4 for curb and gutter repairs on side streets where open trench installation of force main has been used in lieu of freebore installation as directed and authorized by Owner.
 - b. Measurement and Payment (Section 01025): The following item is added to Item 3.32 for curb and gutter repairs on side streets where open trench installation of force main has been used in lieu of freebore installation as directed and authorized by Owner:

D. Curb and Gutter Repair for Open Trench Installation of Force Main in Lieu of Freebore

A unit price shall be obtained for curb and gutter installed on side streets where force main has been installed in lieu of freebore installation, the extent of which is presently unknown.. The quantities for curb and gutter shall be expressed in linear feet placed. Payment for curb and gutter installed under these specifications 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.

(24) Asphalt Roadway Repair

Detail PP51 on Plan Sheet 21 is superseded. Longitudinal pavement cuts and repairs shall be in accordance with attached revised Detail PP51 on Exhibit Add 1.3.

(25) Asphalt Roadway Resurfacing

- a. Plan Sheet 4: Overlay of Tanglebrook Drive is revised from one lane to both lanes (edge of gutter to edge of gutter). Overlay should be installed only after installation of force main and pavement repairs have been completed. Overlay shall be 1.5" of hot mix asphalt, 9.5 mm Superpave Type 2. Milling of joints at tie-in locations shall be required.
- b. Plan Sheets 7 and 8: Delete 945 square yards overlay on Jennings Mill Parkway.
- c. Bid Item 8.01: Quantities are revised to reflect changes in overlay requirements for Tanglebrook Drive and Jennings Mill Parkway as described in a and b, above.

(26) Unsuitable Material in Pavement Cuts

- a. The Bid Form (Section 00300) has been revised to include Item EW.5 for excavation, disposal and replacement of backfill material in pavement cuts as directed and authorized by Owner.
- b. Measurement and Payment (Section 01025): The following item is added to Item 3.32 for open trench installation of force main on side streets and driveways in lieu of freebore installation as directed and authorized by Owner:

E. Unsuitable Material in Pavement Cuts

A unit price shall be obtained for unsuitable material encountered in force main installation in pavement cuts, the extent of which is presently unknown. The excavation, disposal and replacement of unsuitable material shall be measured on a volume basis and paid for as total cubic yards of unsuitable material excavated, disposed and replaced.

(27) Bid Form

A copy of the revised Bid Form is attached to this addendum to address changes described in Addendum No. 1 items 8, 14, 21, 22, 23, 25 and 26.

END OF ADDENDUM NO. 1

SECTION 02763

MANHOLE LINER

PART 1 GENERAL

1.01 SCOPE

This specification includes labor, materials and equipment required for protecting the interior of concrete sanitary sewer manholes from hydrogen sulfide and acid generated by microbiological sources present in municipal wastewaters.

1.02 REFERENCES

- A. ASTM C109 - Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. Cube Specimens).
- B. ASTM C293 - Standard Test Method for Flexural Strength of Concrete (Using Simple Beam With Counter-Point Loading).
- C. ASTM C666 - Standard Test Method for Resistance of Concrete to Rapid Freezing and Thawing.
- D. ASTM C882 - Standard Test Method for Bond Strength of Epoxy-Resin Systems Used with Concrete by Slant Shear.
- E. AASHTO T-277 - Standard Method of Test for Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration.
- F. ASTM – The published standards of the American Society for Testing and Materials, West Conshohocken, PA.
- G. NACE - The published standards of the American Society for Testing and Materials, West Conshohocken, PA.
- H. SSPC – The published standards of the Society of Protective coatings, Pittsburgh, PA.

1.03 SUBMITTALS

The following items shall be submitted.

- A. Technical data sheet on each product used, including ASTM test results indicating the product conforms to and is suitable for its intended use per these specifications.
- B. Material Safety Data Sheets (MSDS) for each product used.
- C. Project specific guidelines and recommendations.
- D. Applicator Qualifications:

1. Manufacturer certification that Applicator has been trained and approved in the handling, mixing and application of the products to be used.
 2. Certification that the equipment to be used for applying the products has been manufactured or approved by the protective coating manufacturer and Applicator personnel have been trained and certified for proper use of the equipment.
 3. Five (5) recent references of Applicator (projects similar size and scope) indicating successful application of a cementitious coating by spray or spin cast application.
 4. Proof of any necessary federal, state or local permits or licenses necessary for the project.
- E. Design details for any additional ancillary systems and equipment to be used in site and surface preparation, application and testing.

1.04 QUALITY ASSURANCE

Applicator shall initiate and enforce quality control procedures consistent with applicable ASTM, NACE and SSPC standards and the protective coating manufacturer's recommendations.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Materials are to be kept dry, protected from weather and stored under cover.
- B. Protective coating materials are to be stored between 50 deg F and 90 deg F. Do not store near flame, heat or strong oxidants.
- C. Protective coating materials are to be handled according to their material safety data sheets

1.06 SITE CONDITIONS

- A. Applicator shall conform with all local, state and federal regulations including those set forth by OSHA, RCRA and the EPA and any other applicable authorities.
- B. Method statements and design procedures are to be provided by OWNER when confined space entry, flow diversion or bypass is necessary in order for Applicator to perform the specified work.

1.07 WARRANTY

Applicator shall warrant all work against defects in materials and workmanship for a period of one (1) year, unless otherwise noted, from the date of final acceptance of the project. Applicator shall, within a reasonable time after receipt of written notice thereof, repair defects in materials or workmanship which may develop during said one (1) year period, and any damage to other work caused by such defects or the repairing of same, at his own expense and without cost to the OWNER.

PART 2 PRODUCTS

2.01 INVERT REPAIR AND PATCHING PRODUCTS

- A. All material furnished shall be designed to fill large voids in structure walls and to repair or reconstruct inverts where no hydrostatic pressure exists. Material shall consist of rapid setting cements, NSG aggregates and various accelerating agents. Material shall not contain chlorides, gypsum or metallic particles.
- B. Approved material shall exhibit the following minimum physical properties:
 - 1. Compressive Strength:
 - 30 minutes >1,200 psi
 - 1 hour >2,500 psi
 - 1 day >4,000 psi
 - 2. Bond Strength:
 - 28-Day >3,000 psi
 - 3. Shrinkage:
 - 0%
- C. Invert repair and patching material shall be Quadex Hyperform (Quadex, Inc.), Sauereisen No. F120FS (Fast Set) Underlayment (Sauereisen) or approved equivalent.

2.02 ACCEPTABLE LINING MATERIALS

- A. Manhole coating shall be cementitious lining material specifically designed for the rehabilitation of manholes and other related wastewater structures. Liner material shall be cement based, poly-fiber reinforced, shrinkage compensated and enhanced with chemical admixtures and siliceous aggregates. Liner material shall be mixed with water per manufacturer's written specifications and applied using equipment specifically designed for either low-pressure spray or centrifugal spin casting application of cement mortars. All cement liner material must be capable of a placement thickness of 1/2" to 4" in a one pass monolithic application.
- B. Manhole coating shall be Portland cement material manufactured from Type II Portland cement and enhanced with silica fume and high-density chemically stable aggregates. Materials must resist corrosion when placed in an environment capable of producing a maximum substrate pH level of 3.0.
- C. Approved material shall exhibit the following 28-day minimum physical properties:
 - 1. Compressive Strength: >7,000 psi
 - 2. Flexural Strength: >1,250 psi
 - 3. Bond Strength: >2,000 psi
 - 4. Permeability: Not to exceed 350 coulombs
 - 5. Freeze-Thaw: No damage in minimum 300 cycles
 - 6. Material Wet Density: Minimum 127 +/- 5 pcf

- D. Manhole coating shall be Quadex QM-1s (Quadex, Inc.), Raven Series 755 (Raven Lining Systems), Sauereisen No. F-121 Substrate Resurfacer (Sauereisen) or approved equivalent.

2.03 PROTECTIVE COATING APPLICATION EQUIPMENT

Manufacturer approved application equipment shall be used in the application of the specified protective coating.

PART 3 EXECUTION

3.01 ACCEPTABLE APPLICATORS

- A. Repair mortar applicators shall be trained to properly apply the cementitious mortar according to manufacturer's recommendations.
- B. Protective coating must be applied by a Certified Applicator of the protective coating manufacturer and according to manufacturer specifications.

3.02 EXAMINATION

- A. All structures to be coated shall be readily accessible to Applicator.
- B. Appropriate actions shall be taken to comply with local, state and federal regulatory and other applicable agencies with regard to environment, health and safety
- C. Any active flows shall be dammed, plugged or diverted as required to ensure that the liquid flow is maintained below the surfaces to be coated. Flows should be totally plugged and/or diverted when coating the invert. All extraneous flows into the manhole or vaults at or above the area coated shall be plugged and /or diverted until the coating has set hard to the touch. As an option, hot air may be added to the manhole to accelerate set time of the coating.
- D. Installation of the protective coating shall not commence until the concrete substrate has properly cured in accordance with these specifications.
- E. Temperature of the surface to be coated should be maintained within the temperature range specified by the coating manufacturer during application. Prior to and during application, care should be taken to avoid exposure of direct sunlight or other intense heat source to the structure being coated. Where varying surface temperatures do exist, care should be taken to apply the coating when the temperature is falling versus rising (i.e. late afternoon into evening vs. morning into afternoon).

3.03 STRUCTURE CLEANING AND PREPARATION

- A. The floor and interior walls of the structure shall be thoroughly cleaned and made free of all foreign materials including dirt, grit, roots, grease, sludge and all debris or material that may be attached to the wall or bottom of the manhole.
- B. High pressure water blasting with a minimum of 3,500 psi shall be used to clean free all foreign material within the manhole.

- C. When grease and oil are present with the manhole, an approved detergent or muriatic acid shall be used integrally with the high pressure cleaning water.
- D. All materials resulting from the cleaning of the structure shall be removed prior to application of the cement based coating.
- E. All loose or defective brick, grout, ledges, steps and protruding ledges shall be removed to provide an even surface prior to application of cement based coating.

3.04 INVERT REPAIR AND PATCHING

- A. Mix water shall be clean potable water and require no additives or admixtures for use with cementitious patching materials.
- B. Cementitious material shall be mixed in a mortar tub or 5-gallon pail with water per manufacturer's specifications. Materials should be mixed in small quantities, to avoid setting prior to placement in voids or inverts.
- C. Once mixed to proper consistency, the materials shall be applied to the invert or void areas by hand or trowel. In invert applications, care should be taken to not apply excessive material in the channel, which could restrict flow. Once applied, materials should be smoothed either by hand or trowel in order to facilitate flow.
- D. Flows in inverts can be reestablished within 30 minutes of material placement.

3.05 APPLICATION OF CEMENTITIOUS LINER

- A. Liner shall be applied by spraying and/or centrifugally spin-casting a cementitious based liner to the inside of the existing structure. The equipment and methods used to apply the cementitious based liner materials shall be in accordance with material manufacturer's recommendations.
- B. Material shall be mixed with water in accordance with manufacturer's specifications. Once mixed to proper consistency, the materials shall be pumped via a rotor-stator style progressive cavity pump through a material plaster hose for delivery to the appropriate and/or selected application device.
- C. Spray application of the cementitious material:
 - 1. Material hose shall be coupled to a low-velocity spray application nozzle. Pumping of the material shall commence and the mortar shall be atomized by the introduction of air at the nozzle, creating a low-velocity spray pattern for material application.
 - 2. Spraying shall be performed by starting at the bottom of the structure and progressing up the wall to the corbel and chimney areas.
 - 3. Material shall be applied to a specified uniform minimum thickness no less than 1/2-inch. Material shall be applied to the bench area in such a manner as to provide for proper drainage without ponding.
- D. Centrifugal application of the cementitious material:
 - 1. Spin-cast unit shall be approved by the material manufacturer and be driven only by a direct current (DC) motor with a minimum speed of 2,500 rpm. Motor torque shall be sufficient to apply lining materials evenly within a minimum 8 foot diameter structure.

2. Material hose shall be coupled to the spin-cast unit. The spin-cast unit shall then be positioned within the center of the manhole at either the top of the manhole chimney or the lowest point corresponding to the junction of the manhole bench and walls.
 3. The spin-cast unit shall then be initialized, and pumping of the material shall commence. As the mortar begins to be centrifugally cast evenly around the interior of the structure, the rotating applicator head shall be raised and/or lowered at a controlled retrieval speed conducive to providing a uniform material thickness on the structure walls.
 4. Controlled multiple passes are then made until the specified minimum finished thickness is attained. If the procedure is interrupted for any reason, simply arrest the retrieval of the applicator head until flows are recommenced.
 5. Material thickness may be verified at any point with a depth gauge and shall be no less than a uniform 1/2-inch. If additional material is required at any level, the spin-cast unit shall be placed at that level and application shall recommence until that area is thickened.
- E. Material shall be applied only when the structure is in a damp state, with no visible water dripping or running over the walls.
- F. The low-velocity spray nozzle may be used in conjunction with the spin-cast unit to facilitate uniform application of the mortar material to irregularities in the contour of the structure walls and bench areas.
- G. When applying materials to open air structures, special precautions shall be taken to ensure proper curing. When recommended by the manufacturer, the CONTRACTOR shall perform the following:
1. Prior to applying materials CONTRACTOR shall subject the structure to a water spray for a minimum of 24 hours to ensure substrate is fully saturated.
 2. Contractor shall avoid spraying portions of the structure that are subjected to sunlight.
 3. When directed by the manufacturer, CONTRACTOR shall apply a curing agent to the surface of all applied and finished materials. Curing agent shall be as specified by manufacturer.
 4. CONTRACTOR shall cover place a sheet of 4-6 mil plastic sheeting between the frame and cover to prevent any moisture loss.
- H. Troweling of materials shall begin immediately following the spray application. Initial troweling shall be in an upward motion, to compress the material into any voids within the structure walls. Precautions should be taken not to overtrowel.
- I. Once troweling has been completed the applied liner shall be brushed to remove trowel marks and to break up the latent surface brought about by trowelling. Brushing should be in the horizontal plane and as with troweling do not over work the lining material.
- J. Curing will take place once the structure cover has been replaced. It is important that the structure lid/ cover is replaced no more than 10 minutes after troweling is complete to avoid moisture loss in the material due to sunlight and winds. When low flow conditions exist within the structure additional measures may be required such as placing plastic sheeting underneath the lid/cover.

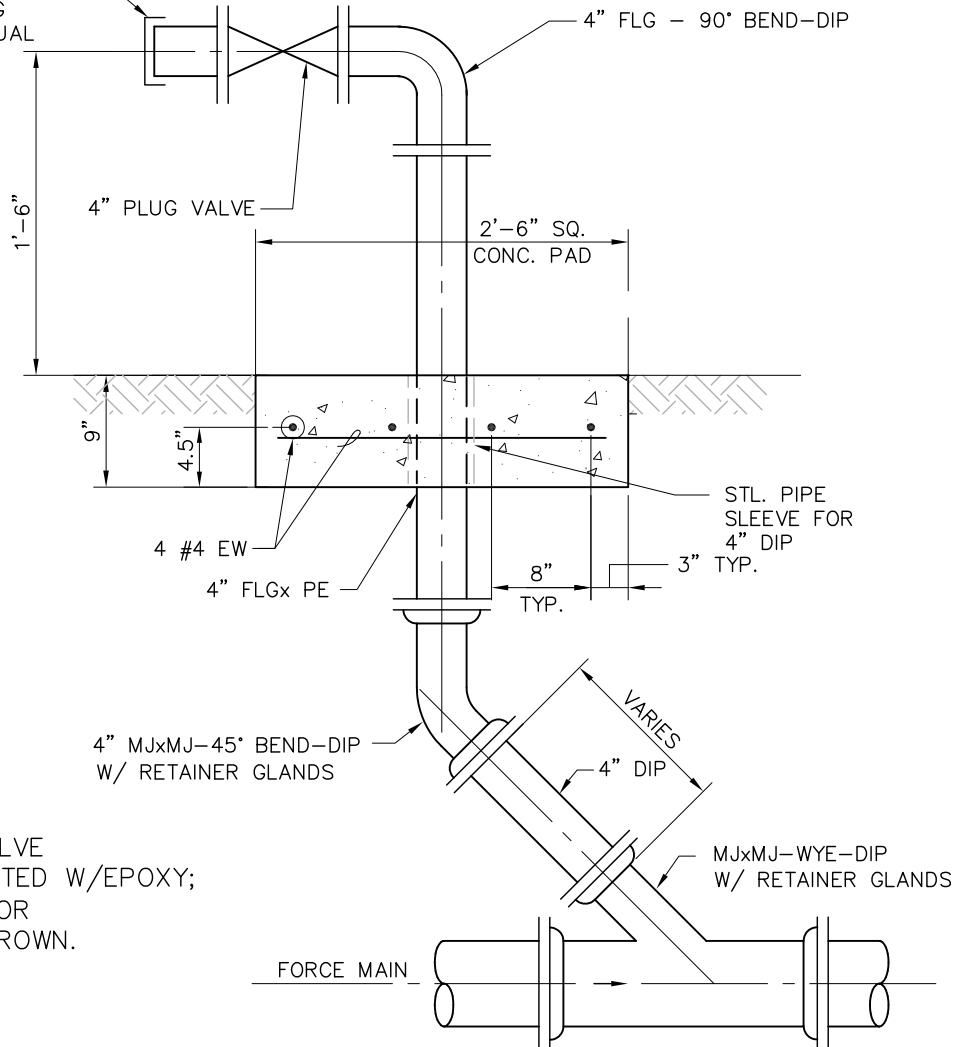
- K. Material shall not be applied during freezing weather conditions. Material shall not be placed when the ambient temperature is 37 degrees Fahrenheit and falling or when the temperature is anticipated to fall below 32 degrees Fahrenheit within 24 hours.

3.06 TESTING AND INSPECTION

- A. During application, a wet film thickness gauge meeting ASTM D4414, shall be used to ensure a uniform thickness during application.
- B. After the protective coating has set hard to the touch, it shall be inspected with high-voltage holiday detection equipment meeting ASTM D4787. The spark tester shall be initially set at 100 volts per 1 mil (25 microns) of film thickness applied. All detected holidays shall be marked and repaired by abrading and cleaning, additional protective coating material can be hand applied to the repair area. All touch-up/repair procedures, for areas that do not meet the specified thickness, shall follow the protective coating manufacturer's recommendations.
- C. A final visual inspection shall be made by the OWNER and coating manufacturer's representative. Any deficiencies in the finished coating shall be marked and repaired according to the procedures set forth herein by Applicator.

END OF SECTION

4" QUICK DISCONNECT
FOR EMERGENCY
BY-PASS PUMPING
KAMVALOK OR EQUAL



NOTE:
ABOVE GROUND
PIPING AND VALVE
SHALL BE PAINTED W/EPOXY;
TOP COAT COLOR
TO BE DARK BROWN.

BY-PASS CONNECTION DETAIL

N.T.S.



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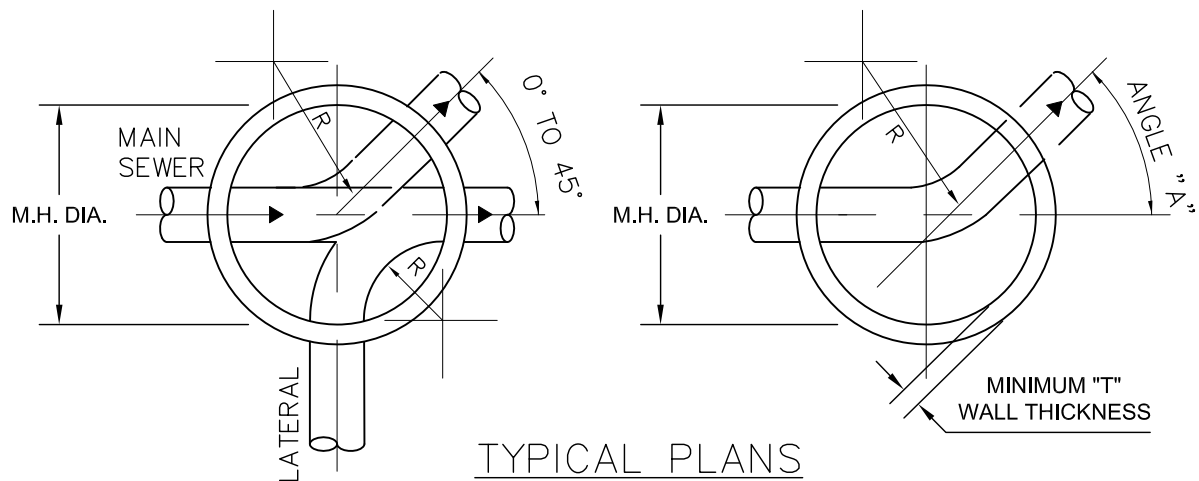
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770.267.8800 • www.ppi.us

EPPS BRIDGE ROAD FORCE MAIN UPGRADE

ADDENDUM NO. 1
BY-PASS TEE

DATE: 7/17/17

EXHIBIT
ADD 1.1



STANDARD MANHOLE SCHEDULE OF GOVERNING DIMENSIONS				
PIPE SIZE	ANGLE "A"	MH. DIA.	"T"	
6" TO 16"	0° TO 90°	4'-0"	5"	
18" TO 24"	0° TO 60°	4'-0"	5"	
18" TO 24"	60° TO 90°	5'-0"	6"	

NOTES:

1. MINIMUM \varnothing RADIUS OF M.H. INVERT $R = 1.5 \times$ PIPE DIAMETER.
2. ROUND & TROWEL INVERTS SMOOTH.

MANHOLE INVERTS

N.T.S.

S03



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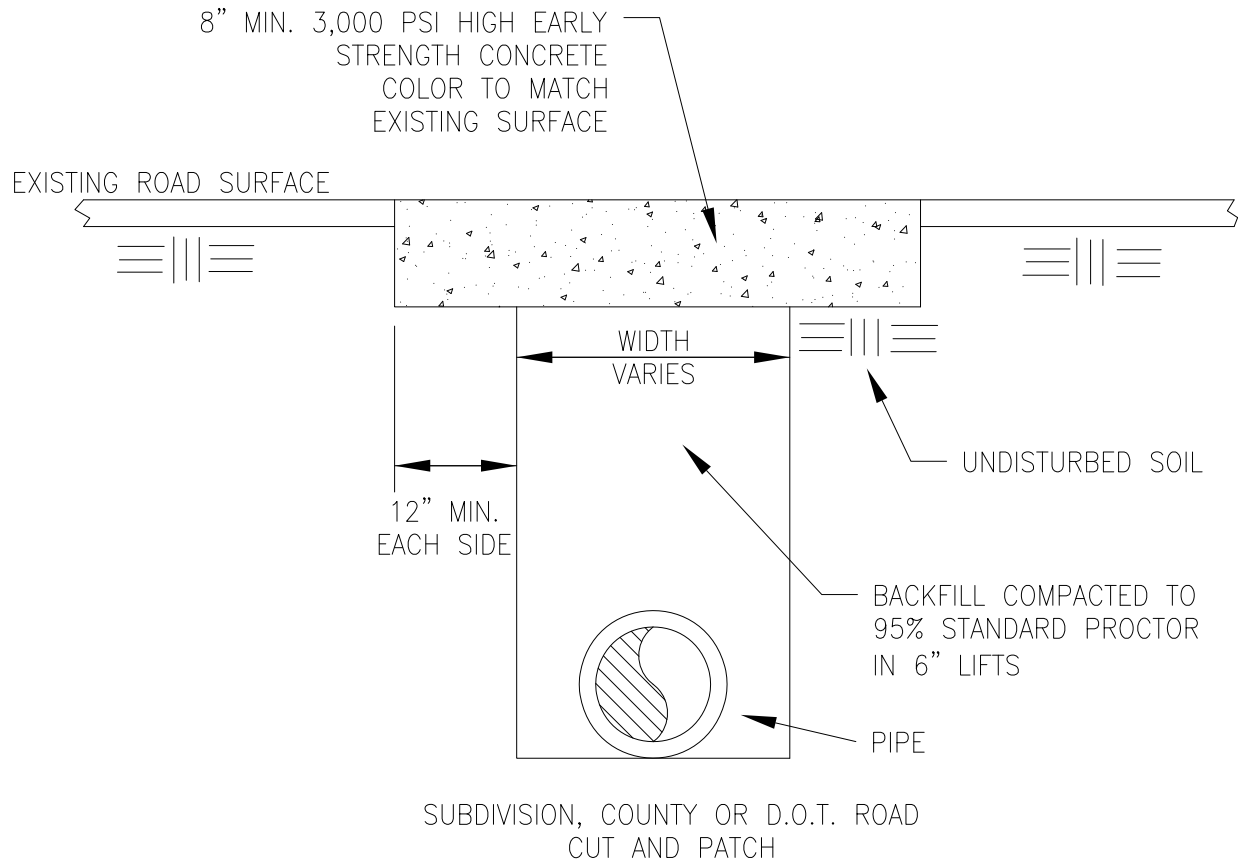
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EPPS BRIDGE ROAD FORCE MAIN UPGRADE

ADDENDUM NO. 1
MANHOLE INVERTS

DATE: 7/17/17

EXHIBIT
ADD 1.2



LONGITUDINAL PAVEMENT CUT-REPAIR

N.T.S.

PP51



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**EPPS BRIDGE ROAD
FORCE MAIN
UPGRADE**

ADDENDUM NO. 1
PAVEMENT CUT

DATE: 7/17/17

EXHIBIT
ADD 1.3

SECTION 00300

BID FORM

**EPPS BRIDGE ROAD FORCE MAIN UPGRADE
FOR THE
OCONEE COUNTY BOARD OF COMMISSIONERS**

THIS BID IS SUBMITTED TO:

Oconee County Board of Commissioners
P.O. Box 1527, Room 206
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
EPPS BRIDGE ROAD FORCE MAIN UPGRADE
FOR THE OCONEE COUNTY BOARD OF COMMISSIONERS

<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	\$3,000.00
				Three Thousand and 00/100 (Unit Price in Words)	
2	Stormwater/Erosion Control Monitoring Program	LS	1	 Dollars and Cents	
				 (Unit Price in Words)	
3	Video Taping of Force Main Route	LS	1	 Dollars and Cents	
				 (Unit Price in Words)	
4	Rock Removal	CY	2,200	 Dollars and Cents	
				 (Unit Price in Words)	
5	Temporary Erosion Control	LS	1	 Dollars and Cents	
				 (Unit Price in Words)	
6	Bore Installation				
6.01	Jack and Bore complete including 24" Dia. Steel Casing and 12" Dia. DIP Carrier Pipe (where indicated on plans)	LF	180	 Dollars and Cents	
				 (Unit Price in Words)	
6.01	Jack and Bore complete including 24" Dia. Steel Casing and 12" Dia. Carrier Pipe	LF	585	 Dollars and Cents	
				 (Unit Price in Words)	
6.02	Rock Bore Adder for 24" Dia. Steel Casing	LF	765	 Dollars and Cents	
				 (Unit Price in Words)	

BID SCHEDULE
EPPS BRIDGE ROAD FORCE MAIN UPGRADE
FOR THE OCONEE COUNTY BOARD OF COMMISSIONERS

<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	24" Dia. Steel Casing, Open Cut Installation	LF	160	_____	_____
				Dollars and Cents	

				(Unit Price in Words)	
8	Pavement Repair				
8.01	Asphalt Resurfacing	SY	1,370	_____	_____
				Dollars and Cents	

				(Unit Price in Words)	
8.02	Longitudinal Pavement Cut and Repair	LF	1,150	_____	_____
				Dollars and Cents	

				(Unit Price in Words)	
8.03	Perpendicular Pavement Cut and Repair	LF	120	_____	_____
				Dollars and Cents	

				(Unit Price in Words)	
8.04	Curb and Gutter Repair	LF	562	_____	_____
				Dollars and Cents	

				(Unit Price in Words)	
9	Manholes				
9.01	Discharge Manhole	LS	1	_____	_____
				Dollars and Cents	

				(Unit Price in Words)	
9.02	Manhole Invert Rehabilitation	EA	1	_____	_____
				Dollars and Cents	

				(Unit Price in Words)	
9.03	Manhole Coring, 24" or Less	EA	1	_____	_____
				Dollars and Cents	

				(Unit Price in Words)	
9.04	Manhole Lining	VF	19	_____	_____
				Dollars and Cents	

				(Unit Price in Words)	

BID SCHEDULE
EPPS BRIDGE ROAD FORCE MAIN UPGRADE
FOR THE OCONEE COUNTY BOARD OF COMMISSIONERS

<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>
10	12" Dia. DIP Gravity Sewer Construction	LF	61	_____	_____
				Dollars and Cents	

				(Unit Price in Words)	
11	Sanitary Sewer Force Main				
11.01	6" Dia. DIP Force Main	LF	40	_____	_____
				Dollars and Cents	

				(Unit Price in Words)	
11.02	12" Dia. DIP Force Main (where indicated on plans)	LF	1,296	_____	_____
				Dollars and Cents	

				(Unit Price in Words)	
11.03	12" Dia. Force Main Pipe	LF	19,093	_____	_____
				Dollars and Cents	

				(Unit Price in Words)	
11.04	6" Plug Valve	EA	1	_____	_____
				Dollars and Cents	

				(Unit Price in Words)	
11.05	12" Plug Valve	EA	3	_____	_____
				Dollars and Cents	

				(Unit Price in Words)	
11.06	Air Release/Vacuum Valve and Manhole	EA	10	_____	_____
				Dollars and Cents	

				(Unit Price in Words)	
11.07	6" x 6" Tapping Sleeve and Valve	EA	1	_____	_____
				Dollars and Cents	

				(Unit Price in Words)	
11.08	6" Force Main Abandonment	EA	1	_____	_____
				Dollars and Cents	

				(Unit Price in Words)	

BID SCHEDULE
EPPS BRIDGE ROAD FORCE MAIN UPGRADE
FOR THE OCONEE COUNTY BOARD OF COMMISSIONERS

<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>
11.09	Connect to Existing 6" Force Main	EA	1	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
11.10	By-Pass Connection	LS	1	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
12	Landscaping Allowance	LS	1	<u>\$20,000.00</u>	<u>\$20,000.00</u>
				Dollars and Cents	
				<u>Twenty 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	750	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
EW.2	Sod in Lieu of Seeded Grassing	SY	1,200	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
EW.3.1	Open Trench Installation of Asphalt Side Streets in Lieu of Freebore	LF	120	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
EW.3.2	Open Trench Installation of Concrete Driveways in Lieu of Freebore	LF	60	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
EW.3.3	Open Trench Installation of Asphalt Driveways in Lieu of Freebore	LF	50	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	
EW.3.4	Open Trench Installation of Gravel Driveways in Lieu of Freebore	LF	100	_____	_____
				Dollars and Cents	
				_____	_____
				(Unit Price in Words)	

BID SCHEDULE
EPPS BRIDGE ROAD FORCE MAIN UPGRADE
FOR THE OCONEE COUNTY BOARD OF COMMISSIONERS

<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.4	Curb and Gutter Repair for Open Trench Installationon Side Streets in Lieu of Freebore	LF	50		
EW.5	Unsuitable Backfill Materials in Pavement Cuts	CY	120	_____	_____
				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.

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 one hundred eighty (180) 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.

Respectfully Submitted:	Name:	_____
	Address:	_____ _____
	Phone No.:	_____
	FEDERAL TAX NO. OR SOCIAL SECURITY NO.:	_____
	Signature of Principal:	_____
	Title:	_____
	Date:	_____
	Telephone:	_____
	ATTEST:	
	Signature:	_____ Corporate Secretary/Partner/Notary (SEAL)
	Name:	_____ (Please type)

END OF SECTION