



Addendum No.1 for City of Gladstone CIPP Sanitary Sewer Repairs

February 13, 2024

The City of Gladstone is issuing the following addenda for the CIPP Sanitary Sewer Repairs, this information is being provided to you as a registered Planholder.

We've updated the Supplemental Technical Provisions for the CIPP project and have made one minor adjustment to the Bid Schedule.

The earlier Supplemental Technical Provisions that were included in the bid packet should be removed in their entirety and the attached **Section 00412 Cured-in-Place Pipe Lining** should replace those provisions in their entirety.

On the Bid Schedule, Line B1 has been changed from "Pre-Rehabilitation Cleaning and Inspection" to "Pre-Rehabilitation Cleaning", since the inspection has already been performed. Please remove the earlier version of the bid form section and replace it in its entirety with the revised one that is part of this addenda.

Additionally we have received some questions regarding the project and those questions are answered below.

Q: "Reseal MH" – This is to stop Infiltration – do you require the entire manhole to be seal/coated or can an injectable product be used to locally stop the infiltration?

A: The entire manhole shall be seal coated.

Q: Is there any existing photos or CCTV of the segments for this contract?

A: Yes

Q: Are these gravity flow sewers or a force main?

A: Gravity


Q: The Point Repair product we use is an ambient cure, (attached submittals) can these be approved for installation on this project?

A: Yes

Please note: Any additional questions need to be submitted no later than 12:00pm on Thursday February 15, 2024. If there is any remaining addenda, it will be issued no later than 12:00pm on Friday February 16, 2024.

Thank you,

City of Gladstone, Public Works Dept.

| | | |
|--|--|---|
|  | <h1>BID FORM</h1> <p>City of Gladstone 2024 CIPP Sanitary Sewer Repairs</p> | <p>Public Works Department 18595 Portland Avenue, Gladstone, Oregon 97027 503-656-7957 Darren Caniparoli Public Works Director PWoffice@ci.gladstone.or.us</p> |
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PROPOSER’S BID FORM

NOTE TO BIDDER: Use typewriter or ink for completing this bid form, pencil will not be accepted.

PROJECT: City of Gladstone 2024 CIPP Sanitary Sewer Repairs

BID CLOSING: February 21, 2024 @ 1:00pm

BID OPENING: February 21, 2024 @ 1:15pm

1. BID RECIPIENT

1.1. Sealed Bids shall be submitted to:

| | |
|----------|---|
| Owner: | City of Gladstone, Public Works Department Attention: Darren Caniparoli, Public Works Director |
| Address: | 18595 Portland Avenue, Gladstone, Oregon 97027 |

1.2. The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into Contract (Agreement) with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

2. BIDDER’S ACKNOWLEDGEMENTS

2.1. Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for 60 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

3. BIDDER’S REPRESENTATIONS

3.1. Pursuant to ORS 279A.110(4), Bidder certifies that it has not discriminated and will not discriminate against the groups of persons identified in ORS 279A.110 in the award, if any, of a subcontract.

3.2. Bidder has examined and carefully studied the Bidding Documents, the other related data identified in the Bidding Documents, and the following Addenda, receipt of which is hereby acknowledged.

| <u>Addendum No.</u> | <u>Addendum Date</u> | <u>Initial</u> |
|---------------------|----------------------|----------------|
| | | |
| | | |
| | | |
| | | |

(BIDDER SHALL INSERT NUMBER, DATE AND INITIAL FOR EACH ADDENDUM RECEIVED)

4. BASIS OF BIDS

4.1. Bidder shall complete the Work in accordance with the Bidding Documents for the prices listed in the following proposal:

Name of Company Providing Bid: _____

City of Gladstone 2024 CIPP Sanitary Sewer Repairs

| BID SCHEDULE CITY OF GLADSTONE 2024 CIPP SANITARY SEWER REPAIRS | | | | | |
|---|---|----------|------|------------|-------------|
| ITEM | DESCRIPTION | QUANTITY | UNIT | UNIT PRICE | TOTAL PRICE |
| A. GENERAL SANITARY SEWER | | | | | |
| A-1 | MOBILIZATION / DEMOBILIZATION | ALL | LS | \$ | \$ |
| A-2 | TEMPORARY PROTECTION & DIRECTION OF TRAFFIC | ALL | LS | \$ | \$ |
| A-3 | BYPASS PUMPING | ALL | LS | \$ | \$ |
| Section A Subtotal | | | | | \$ |
| B. SANITARY SEWER PIPE WORK | | | | | |
| B-1 | PRE-REHABILITATION CLEANING | 923 | FOOT | \$ | \$ |
| B-2 | CIPP POINT REPAIR, 8 INCH x 24 INCH | 4 | EA | \$ | \$ |
| B-3 | CIPP POINT REPAIR, 8 INCH x 48 INCH | 3 | EA | \$ | \$ |
| B-4 | CIPP LINER, 8 INCH | 215 | FOOT | \$ | \$ |
| B-5 | SERVICE LINE REINSTATEMENT | 3 | EA | \$ | \$ |
| B-6 | CIPP END SEAL | 2 | EA | \$ | \$ |
| Section B Subtotal | | | | | \$ |
| C. MANHOLES | | | | | |
| C-1 | RESEAL MANHOLES | 2 | EA | \$ | \$ |
| C-2 | REGROUT MANHOLE CHANNEL | 1 | EA | \$ | \$ |
| Section C Subtotal | | | | | \$ |
| Grand Total | | | | | \$ |

Please write Grand Total of Bid amount in written form:

5. TIME OF COMPLETION

5.1. Bidder agrees the Work, and any Milestones specified in the Agreement, will be substantially complete and will be completed and ready for final payment on or before the dates, or within the number of calendar days, indicated in the Contract (Agreement).

5.2. Bidder agrees the Work will be substantially complete no later than June 28, 2024 or within 60 business days from the start of work. Final Completion will be no later than July 12, 2024

5.3. Bidder accepts the provisions of the Contract (Agreement) as to liquidated damages in the event of failure to complete the Work, and any specified Milestones, within the Contract Times.

6. ATTACHMENTS TO THIS BID

6.1. The following documents are submitted with and made a condition of this Bid:

- 6.1.1. Required Bid security in the form of Bid Bond.
- 6.1.2. Non-collusion Affidavit.
- 6.1.3. Five Year Applicable and Consecutive Experience Record
- 6.1.4. Employee Drug Testing Program Certification Form

7. BID SUBMITTAL

7.1. This Bid submitted by:

If Bidder is:

An Individual

Name (typed or printed): _____

By (signature): _____

Doing business as: _____

A Partnership

Partnership Name: _____ (SEAL)

By: _____

(Signature of general partner – attach evidence of authority to sign)

Name (typed or printed): _____ A Corporation

Corporation Name: _____ (SEAL)

State of Incorporation: _____

Type (General Business, Professional, Service, Limited Liability): _____

By: _____

(Signature – attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____ (CORPORATE SEAL)

Attest: _____

(Signature of Corporate Secretary)

Date of Qualification to do business in Oregon is: _____.

A Joint Venture

Joint Venturer Name: _____ (SEAL)

By: _____
(Signature of joint venture partner – attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

(Each joint venturer must sign. The manner of signing for each individual, partnership, and corporation that is a party to the joint venture should be in the manner indicated above.)

Bidder's Business Address: _____

Bidder's Representative to contact about this Bid: _____

Phone No.: _____ FAX No.: _____

E-mail: _____

SUBMITTED on _____, 2024

Oregon Contractor's License No.: _____

Contractor's License Class (where applicable): _____ Metro License: _____

Bidder is a resident bidder as defined in ORS 279A.120.

_____ Yes _____ No

Indicate state in which bidder resides: _____

END OF SECTION

Section 00412 - Cured-in-Place Pipe Lining

Description

00412.00 Scope - This Work consists of rehabilitating existing pipes by furnishing and installing pipe liners by cured-in-place pipe (CIPP) lining methods as shown.

00412.01 Submittals - Submit the following at least 10 Calendar Days before the preconstruction conference:

- Certification by the lining system manufacturer that the installer is licensed and certified as competent to perform the Work.
- Documentation showing the installer meets the qualifications listed in 00412.30, and a list of the key qualified personnel who are assigned to Work on this Project.
- Certification of test results confirming that the CIPP liner system meets the minimum chemical resistance requirements according to ASTM F1216 and ASTM F1743.
- Catalog data, and manufacturer's technical data showing complete information on material composition, physical properties, and dimensions of system components of the tube and resin system. Include manufacturer's recommendation for handling, storage, insertion, curing, trimming, finishing, and repair of damaged liner.
- Calculations for the volume of resin to be used for each segment and detailed description of the wet-out process. Include the tube and resin manufacturer's wet-out recommendations including the roller gap, material feed speed and vacuum requirements for each liner size and thickness.
- End seal material to be used, and method of installation. If a grout sealing method is proposed or suggested, provide certification from the grout manufacturer or Supplier that the grout material for sealing Structures and service laterals is compatible with the proposed resin and liner system and is suitable for use in aqueous environments.
- Sampling and testing plan for physical properties according to ASTM F1216 and ASTM F1743, including name and location of laboratory performing testing on installed liner system. Provide certification that each test shall be performed by a laboratory with appropriate accreditation for the specific test to be performed. Installation plan describing project staging, liner shot plan and sequence, and the manufacturer's standard procedures for liner installation. Include allowable pulling forces, installation pressures, allowable curing temperatures, and temperature monitoring plan. Contingency repair plan including methods and equipment to be used to repair or replace unacceptable liner defects identified in 00412.73.
- Stamped design of the proposed liner according to 00150.35 and 00412.02.

Upon liner system delivery, submit wet-out logs documenting resin volumes used.

00412.02 Design Parameters - Follow the design considerations of ASTM F1216 and meet the following:

| Condition | Parameter |
|--|----------------------------|
| Service Life | Greater than 50 year |
| Pipe Conditions..... | Fully deteriorated |
| Load Conditions: | |
| Soil | 125 lb/cf minimum |
| Traffic..... | LRFD HL- 93 live load |
| Groundwater Elevation above invert | 5 feet |
| Pipe Ovality 5% | |
| Modulus of Soil Reaction | 700 psi |
| Enhancement Factor..... | 7.0 |
| Long-Term Flexural: | |
| Strength..... | 50% of initial (ASTM D790) |
| Modulus of Elasticity..... | 50% of initial (ASTM D790) |
| Maximum Deflection..... | 5% |
| Minimum Factor of Safety | 2.0 |

Materials

00412.10 Tube - Furnish tubing that consists of absorbent nonwoven felt fabric meeting the requirements of ASTM F1216, Section 5.1 and exhibits the following characteristics:

- A smooth, impermeable, bonded coating on the inside of the finished pipe.
- Sewn or bonded seams, stronger than non-seamed material, as recommended by the tube manufacturer.
- No allowable delamination in the cured CIPP.

Verify pipe lengths and pipe diameters before ordering tubing.

00412.11 Resin - Furnish resins meeting the requirements of ASTM F1216, Section 5.2, or ASTM F1743, Section 5.2.3. Comply with the structural requirements specified for the installed liner system.

Furnish thermosetting polyester, vinylester, or epoxy resin and a catalyst system compatible with the installation process, and is able to cure in the presence or absence of water. Color the resin with a pigment compatible with the resin system.

00412.12 Liner Properties - Furnish liners that have the minimum physical properties stated in ASTM F1216, ASTM F1743 and ASTM D2990, and are also resistant to chemical properties and flow characteristics typically found in municipal sanitary sewer flows. Fabricate the liner to a size that when cured, will tightly fit the pipe being rehabilitated. The finished liner system shall be homogeneous across the wall thickness containing no intermediate or encapsulated elastomeric layers.

| Characteristic | Test Method | Epoxy/Vinylester | Polyester Resin |
|--|-------------|------------------|--------------------|
| Initial Flexural Strength | ASTM D790 | 5,000 psi | 4,500 psi |
| Initial Flexural Modulus of Elasticity | ASTM D790 | 400,000 psi | 250,000 psi (min.) |

Labor

00412.30 Personnel Qualifications - Provide installers who:

- Are licensed, and certified by the manufacturer of the CIPP product system to be used on the Project.
- Have at least 3 years of active experience in the installation of CIPP.
- Have installed at least 50,000 feet of CIPP in similar conditions.

Construction

00412.40 General - Handle and store all liner material to ensure that the material is not torn, cut, exposed to direct sunlight or otherwise damaged. Before installing the liner, verify its condition with the Engineer. If any part of the liner material becomes torn, cut, or damaged before or during insertion, repair or replace it at no additional cost to the Agency before proceeding further.

00412.41 Pipe Cleaning - Clean the pipe by removing all debris, sediment, and other accumulated material. Do not use chemicals without the written approval of the Engineer. Remove and dispose of all debris according to 00290.20.

412.42 Bypass Pumping:

(a) **Bypass Plan** – Prior to bypassing flows, submit a bypassing plan to the City for review.

(b) **When Bypassing is required** - When sewer line flows in an eight-inch pipe exceed 20% of the pipe diameter for the CCTV Inspection or 25% of the pipe diameter for joint testing/sealing or the depth recommended by the manufacturer of the sewer rehabilitation practice being implemented, reduce flows to acceptable levels.

1. Plug the line at a point upstream of the pipe to be rehabilitated if bypassing is required.
2. Pump flow to a downstream point or an adjacent sewer line.
 - Provide pump and bypass lines of adequate capacity to handle all flows.
 - Provide adequate reserve pumps on-site for emergency use and for storm flows.

(c) **When Bypassing is not necessary** - Rehabilitation and inspection work may be completed without bypassing in certain situations including low flow conditions, adequate upstream storage, use of a flow-through packer, or other situations approved by the Owner. If proposed work will be completed without bypassing, have equipment and a plan of action available to implement bypass pumping in the event the work is delayed or sewage levels in the upstream line are in danger of causing backups.

00412.43 Installation - Install CIPP according to ASTM F1216 Section 7, ASTM F1743 Section 6, and the manufacturer's recommendations.

(a) **General** - Liners may be installed in continuous runs through manholes where there are two or more continuous host pipe segments requiring lining. Provide temporary downstream dams or filtration measures in the pipeline to catch excess resin and construction debris. Do not allow the temperature of water discharged

from processing liners to exceed the level allowed by State or local requirements. Provide a "back-up" robotic cutter assembly train and key spare components on-site during CIPP lining activities.

(b) CIPP Point Repair – Install CIPP point repair system according to the system manufacturer’s published recommendations.

- Wet out the liner with the entire volume of resin recommended by the manufacturer.
- Load the wet-out liner onto the packer and secure in place. Ensure the ends of the packer extend beyond the ends of the liner.
- Pull the packer into position within the pipe. Verify position with CCTV observation.
- Apply air pressure to the packer to expand the CIPP point repair liner against the host pipe.
- Maintain consistent air pressure for the duration of the curing period.

(c) Pipe Liner End Seal - Install an end seal when reconnecting to the rehabilitated host pipe.

00412.44 Service Line Reinstatement - Reinstate active service laterals using an internal cutter. Open hole to a minimum of 95 percent, but do not exceed 105 percent of the service lateral diameter. Make each connection free from burrs or projections, and with a smooth and crack-free edge.

Finishing, Cleaning Up, and Testing

00412.70 General - Remove temporary dams or filtration measures after Work is complete and pipe is clean and restored.

00412.71 Post Installation Video Inspection - After installation of the UV-CIPP perform a post-installation video inspection of the pipe according to ODOT Standard Specifications for Construction Section 00415.42.

00412.72 Material Sampling and Testing - Obtain samples and perform material testing according to ASTM F1216 and ASTM F1743. Perform one physical properties test for the project.

Individually label and log each sample with the following information:

- Project name
- Name of Contactor
- Sampler’s name
- Sample number
- Date and time of sample
- Location of sample
- Initial cure start date and time
- Name and location of third party laboratory

Flexural properties must meet or exceed the values according to 00412.12.

00412.73 Repairs - Before making repairs, provide the CIPP liner system manufacturer's recommendations for liner repairs, subject to approval by the Engineer. Repair or replace CIPP liners that have:

- Wrinkles, fins or other discontinuities in the lower one-third of the pipe that are perpendicular to the flow and

exceed 1/2 inches in height, or are greater than 3 percent of the host pipe inside diameter.

- Wrinkles, fins or other discontinuities in the upper two-thirds of the pipe that are perpendicular to the flow and are greater in height than 5 percent of the host pipe inside diameter.
- Blisters or dry spots present.
- Leakage through the liner in excess of ASTM F1216 and ASTM F1743 standards.
- Separation of the liner from the host pipe.
- Delamination of CIPP layers.

00412.75 Contractor Warranty - The Contractor unconditionally warrants to the Agency the product and installation under this Section against failure, according to this Subsection and the Project Bid Documents.

"Unconditionally warrant" means that the warranty covers all failures, regardless of the source or cause of the failure, including, without limitation, whether the source or cause is or may be related to workmanship, inspection, or choice of materials.

The Agency inspection of any portion of the Work during the Contract and during the product installation, the Agency acceptance of the Work, corrections under the warranty, or expiration of the warranty shall not relieve the obligations under this warranty.

(a) Warranty Period - The warranty period shall be for 1 year.

(b) Failure - For purposes of the warranty, failure is defined as one or more of the following:

- Wrinkles, fins or other discontinuities in the lower one-third of the pipe that are perpendicular to the flow and exceed 1/2 inch in height, or are greater than 3 percent of the host pipe inside diameter.
- Wrinkles, fins or other discontinuities in the upper two-thirds of the pipe that are perpendicular to the flow and are greater in height than 5 percent of the host pipe inside diameter.
- Blisters or dry spots.
- Leakage through the liner in excess of ASTM F1216 and ASTM F1743 standards.
- Separation of the liner from the host pipe.
- Delamination of CIPP layers.

(c) Remedy - Upon notification by the Engineer of a failure as defined above, provide the following remedy at no additional cost to the Agency:

- Liner repair plan and written timeline of when the Work will be completed within 10 Calendar Days of the Agency's written notification of failure.
- One of the following, as approved:
 - Install a second liner,
 - Remove the failed liner and install a full-thickness liner,
 - Construct a full pipe replacement, or
 - Install a liner repair.
- Complete one of the approved remedy's within 60 Calendar Days of the Agency's written notification of failure.
- Use materials and procedures meeting the Specifications.
- Coordinate timing of repair Work with the Engineer.

(d) Agency's Right to Make Repairs - If, in the opinion of the Engineer, a failure causes or may cause a

hazard, the failure may be temporarily corrected by Agency or other forces at no additional cost to the Agency. Replace temporary repairs with permanent repairs at no additional cost to the Agency and according to the Specifications and within the time specified in 00412.75(c).

Measurement

00412.80 Measurement - The quantities of pre-rehabilitation cleaning and installed CIPP liners, of the various kinds, types, and sizes, will be measured on the length basis. The length will be measured, with no deduction for Structures or fittings, along the pipe flow line from center to center of manholes, inlets, Structures, special sections, or the ends of pipe, whichever is applicable.

The quantities of installed service line reinstatements and CIPP Point repairs, of the various kinds, types, and sizes, will be measured on the unit basis regardless of size.

No measurement will be made for Bypass Pumping or Post-Installation Video Inspection.

Payment

00412.90 Payment - The accepted quantities of Work performed under this Section will be paid for at the Contract unit price, per unit of measurement, for the following items:

| Pay Item | Unit of Measurement |
|--|----------------------------|
| (a) CIPP Liner, 8 Inch..... | Foot |
| (b) Service Line Reinstatement..... | Each |
| (c) CIPP Point Repair, 8 Inch x 24 Inch..... | Each |
| (d) CIPP Point Repair, 8 Inch x 48 Inch..... | Each |
| (e) Pre-Rehabilitation Cleaning..... | Foot |
| (f) CIPP End Seal..... | Each |
| (g) Bypass Pumping..... | Lump Sum |

Payment will be payment in full for furnishing and placing all Materials, and for furnishing all Equipment, labor, and Incidentals necessary to complete the Work as specified.

Payment for Item (g) will be made at the Lump Sum price for Bypass Pumping.

No payment will be made for Post-Installation Video Inspection.