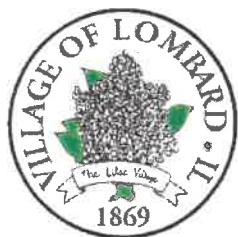


NOTE: All materials must be submitted to and approved by the Village Manager's Office by 4:30 pm, Wednesday, before the Board Agenda distribution.



Interoffice Memo

To: Scott Niehaus, Village Manager
Through: Carl Goldsmith, Director of Public Works *CG*
From: David Gorman, P.E., Assistant Director of Public Works *DG*
Date: May 13, 2024
Subject: Large Diameter Combined Sewer Rehabilitation

Background

The large-diameter combined sewer was constructed during the 1930s and 1940s and underwent minor rehabilitation in the 1970s. In 2018, the Village hired Red Zone Robotics to perform a robotic multisensory inspection of the sewer. Given the results of the inspection report, and from a risk management aspect (probability of failure combined with the consequence of failure), the rehabilitation of the sewer line became a crucial CIP project.

The section of the large-diameter combined sewer to be rehabilitated originates in Lombard Commons Park and proceeds south on Fairfield Avenue towards Washington Street. The sewer continues east on Washington Avenue across Main Street and through the rear yard easement of homes within the Green Vallen Valley Subdivision. The sewer then proceeds east on Hickory Street towards Finley Road, across Route 53 and I-355, and finally terminates at the Glenbard Wastewater Treatment Plant.

Funding

The project will be funded through an IEPA State Revolving Fund loan, to be repaid over a 20-year term. The 2024 – 2033 Capital Improvement Plan (CIP) construction contract budget is \$16,073,200.

Bid

The base bid for the project involves rehabilitation of approximately 10,073 feet of 90-inch, 96-inch, and 108-inch diameter combined sewer along with approximately 464 linear feet of 30-inch diameter pipe to be lined with cured-in-place pipe (CIPP). The additive portion of the bid is approximately 629 linear feet of a 90-inch diameter combined sewer that runs from Lombard Commons Park east to South Edgewood Avenue.

Seventeen (17) potential bidders and subcontractors purchased bid documents. Seven (7) electronically submitted bids were opened and read at the offices of Christopher B. Burke Engineering LTD of Rosemont, Illinois on May 7, 2024, at 10:00 AM. The summarized results are listed below:

Company	Base Bid	Additive Bid	Total
Vortex Lining Systems, LLC	\$14,120,468.35	\$578,453.69	\$14,698,922.04
Insituform Technologies USA, LLC	\$15,126,300.30	\$487,659.30	\$15,613,959.60
Spiniello Companies	\$16,165,388.00	\$677,912.00	\$16,843,300.00
SAK Construction, LLC	\$16,690,835.00	\$513,988.00	\$17,204,823.00
Municipal and Contractors Sealing	\$18,247,797.00	\$610,866.00	\$18,858,663.00
Michels Trenchless Inc	\$20,594,759.97	\$430,720.03	\$21,025,480.00
Inliner Solutions, LLC.	\$21,433,174.00	\$766,600.00	\$22,199,774.00
Engineer's Estimate	\$18,575,430.00	\$721,144.00	\$19,296,574.00

A detailed bid tabulation can be provided upon request.

Recommendation

Public Works-Engineering recommends the award of this bid (Base Bid & Additive) in the total amount of \$14,698,922.04 to Vortex Lining Systems, LLC of Houston, Texas, as the lowest responsible and responsive bidder. The Village has previously used the Vortex geopolymer product (Quadex) on various manhole lining projects. Attached is a letter of recommendation for the award from Christopher B. Burke Engineering of Rosemont, the project design engineer. A form informing Vortex of the Village's intent to award, pending IEPA approval is also attached.

DG/rgs



CHRISTOPHER B. BURKE ENGINEERING, LTD.

9575 West Higgins Road Suite 600 Rosemont, Illinois 60018 TEL (847) 823-0500 FAX (847) 823-0520

May 13, 2024

Village of Lombard
255 E Wilson Ave.
Lombard, Illinois 60148

Attention: Mr. Ray Schwab
Civil Engineer II

Subject: **Large Diameter Combined Sewer Rehabilitation Project**
Bidding Analysis and Award Recommendation
(CBBEL Project No. 21-0488)

Dear Mr. Schwab:

The Village received bids for the **Large Diameter Combined Sewer Rehabilitation Project** on May 7, 2024 at 10:00 a.m. via QuestCDN online bidding. Seven (7) bids were received, opened, and read aloud as summarized on the attached Tabulation of Bids.

Review of Bids Received:

Bids were reviewed for:

- Bidder's Acknowledgement of Receipt of **Addenda 1,2,3, & 4** – All bidders acknowledged receipt of the Addenda through QuestCDN.
- Consistency between the "**Bid as Read**" and the summation of the bidding line items in the bidder's proposals. No corrections were necessary on any of the three lowest proposals received.
- Bidder's **Signature** of the Bid Form or Proposal – Each bidder signed their bid.
- Bidder's **Pre-qualifications** were determined through the Village's online form submission to determine Bidder's indication of **Supplier** to be used. All bidders provided the requested information.
- Bidder's inclusion of **Bid Bond/Bid Security** – All bidders provided a Bid Bond.

Bid Alternatives

The Bid Proposals required bidders to bid both sections of the proposal: **Base Bid and Additive Bid**.

- The **Base Bid** was approximately 10,073 linear feet of 90", 96", 108" combined sewer to be rehabilitated from the Glenbard Wastewater Authority located west of I-355 and IL Route 53 on the west extent to Fairfield Ave and Maple Street on the east extent.
- The **Additive Bid** was approximately 629 linear feet of additional 90" combined sewer replacement within the Lombard Commons Park owned by the Lombard Park District.

Review of the Low Bid:

Vortex Lining Systems, LLC, 18150 Imperial Valley Drive, Houston, Texas, 77060 submitted the low bid as shown on the following table. The table also shows CBBEL's Engineer's Opinion of Probable Construction Cost (EOPCC) and the percentage Vortex Lining Systems, LLC, Inc was under the EOPCC:

	EOPCC	Vortex Lining Systems, LLC	% Of EOPCC
Base Bid	\$18,575,430.00	\$14,120,468.35	-23.9%
Additive Bid	\$721,144.00	\$578,453.69	-19.8%
Total	\$19,296,574.00	\$14,698,922.04	-23.8%

Review of the 4 lowest Bids received, indicates relative uniformity among the Proposals received. From this, coupled with the fact that 7 bids were received, it can be inferred that the prices received are representative of current market costs for underground combined sewer rehabilitation work. CBBEL's EOPCC was derived using prices received on several recent similar projects.

As determined by the pre-qualification protocol established for this project, Vortex Lining Systems, LLC has experience working on similar underground utility projects and from that experience it is CBBEL's opinion that Vortex Lining Systems, LLC is qualified to perform the work required for both the Base and Additive Work that would be awarded by the Village.

Bid Amount and Engineer's Opinion of Probable Construction Cost:

Vortex Lining Systems, LLC bids were 23.8% under the Engineer's Opinion of Probable Construction Cost (EOPCC) for the **Large Diameter Combined Sewer Rehabilitation Project** as shown in the table above. As previously indicated, CBBEL's EOPCC was derived from bidding of several recent similar projects.

Planning Budget

We understand that the Village has secured funding through the IEPA Water Pollution Control Loan Program (WPCLP) and will be utilizing this source for project funding.

Recommendation for Award:

From the above analysis of bids, it is CBBEL's opinion that the bids received fairly reflect current pricing for underground combined sewer rehabilitation work. Vortex Lining Systems, LLC submitted, in our opinion, the lowest responsive and responsible bid for both the Base Bid and Additive Bid for the **Large Diameter Combined Sewer Rehabilitation Project**. CBBEL therefore recommends that the Village Award the **Large Diameter Combined Sewer Rehabilitation Project** to:

**Vortex Lining Systems, LLC
18150 Imperial Valley Drive
Houston, Texas, 77060**

The amount of the award should be determined by the Village to be Base Bid only or Base Bid plus Additive Bid in the amounts listed in the table to be in the best interest of the Village.

Do not hesitate to contact us if you require further information or have any questions regarding our recommendation for award.

Sincerely,



Kevin W. Baldwin, PE
Mechanical Engineer

NOTICE OF INTENT TO AWARD

To: **Vortex**

18150 Imperial Valley Drive

Houston, TX 77060

Attention: Ryan Graham, Chief Executive Officer

Project Description: The base bid consists of the rehabilitation of approximately 12,760 feet of 30-inch, 90-inch, 96-inch, and 108-inch diameter combined sewer, which includes approximately 28 manholes. The additive portion of the bid is approximately 640 linear feet of a 90-inch diameter combined sewer, including 1 manhole.

The OWNER has considered the BID submitted by you for the above-described WORK, in response to its Advertisement for Bids, dated March 11, 2024, and Information for Bidders.

You are hereby notified that your BID will be accepted, contingent upon Illinois Environmental Protection Agency (IEPA) approval, for items in the amount of \$14,698,922.04.

You will be required by the Information for Bidders to execute the Agreement and Performance BOND, Payment BOND and certificates of insurance within ten (10) calendar days from the date of the final Notice to be sent upon IEPA approval, to you.

Dated this day of May 16, 2024

VILLAGE OF LOMBARD

Keith Giagnorio, Village President

Attest: _____
Elizabeth Brezinski, Village Clerk