

VILLAGE OF LOMBARD
REQUEST FOR BOARD OF TRUSTEES ACTION
For Inclusion on Board Agenda
Bids and Proposals

TO : President and Village Board of Trustees
FROM : Scott Niehaus, Village Manager
DATE : March 13, 2018 Agenda Date: April 5, 2018
TITLE : Purchase of IPEX Vortex Flow Insert
SUBMITTED BY: Carl Goldsmith, Public Works Director *g*

RESULTS:

Date Bids Were Published N/A Bidding Closed N/A

Total Number of Bids Received 1

Total Number of Bidders Meeting Specifications 1

Bid Security Required _____ Yes X No

Performance Bond Required _____ Yes X No

Were Any Bids Withdrawn _____ Yes X No

Explanation:

Waiver of Bids Requested? _____ X Yes _____ No

If yes, explain: See Memo

Award Recommended to Lowest _____ X Yes _____ No

Responsible Bidder?

If no, explain: See memo.

FISCAL IMPACT:

Budget Estimate: \$100,000 (Project Budget in 2018 CIP)

Amount of Award: \$27,938.00

Account #: 520.790.715.75620 (Water/Sewer Capital Reserve Fund)

Project #: SA 19 04

BACKGROUND/RECOMMENDATION:

Has Recommended Bidder Worked for Village Previously _____ Yes X No

If yes, was quality of work acceptable _____ Yes _____ No

Was item bid in accordance with Public Act 85-1295? _____ Yes _____ No

Waiver of bids - Public Act 85-1295 does not apply X Yes

REVIEW (as needed):

Village Attorney XX _____ Date _____

Finance Director XX _____ Date _____

Village Manager XX _____ Date _____

NOTE: All materials must be submitted to and approved by the Village Manager's Office by 12:00 noon, Wednesday, prior to the Board Agenda distribution.

Interoffice Memo



To: Scott Niehaus, Village Manager
Through: Carl Goldsmith, Director of Public Works *CSG by DRG*
From: David Gorman, P.E., Assistant Director of Public Works *DRG*
Date: March 13, 2018
Subject: Edson/Wilson Manhole Aerator

To address odor issues related to the Fairview Lift Station, the Engineering and Underground Utilities Divisions sought out numerous potential solutions to alleviate the Hydrogen Sulfide (H₂S) issue, i.e. rotten-egg odor that plagues the Fairview Lift Station force main and force main discharge point (the manhole at the intersection of Edson and Wilson).

Due to the length of the Fairview force main (approximately 2 miles) the effluent is subject to become septic. Oxygen is rapidly consumed within the pipe resulting in anaerobic conditions and sulfide production, especially at the point of discharge. The result is odor complaints.

Currently a canister containing chemical carbon filters is installed in the manhole. The intended use of the product is the removal of H₂S. The gases are removed by a means of adsorption, absorption and chemical reaction. The gases are trapped within the canister, where a chemical reaction changes the gases into a harmless compound. Unfortunately this product has had very limited success due to the heavy H₂S concentration significantly reducing the effective life of the media.

After researching various solutions and products, PW- Engineering identified a patented solution in a product named Vortex Flow Insert (VFI). The VFI's patented spiral flow design eliminates odorous and corrosive gases in a unique way, using the wastewater's own flow energy to suppress the turbulence which releases noxious gases. The spiral flow creates a downdraft which traps airborne gases and forces air into the sewage flow to oxidize odorous gases.

The VFI will be installed as part of a future contract (summer 2018) within the Edson/Wilson intersection. Work will involve bypassing sewer flow, installing a permanent emergency bypass, reconfiguring and lining the manhole where the VFI will be installed. The Village would purchase the VFI, an air release valve and two gate valves to supply to the contractor in order to expedite the purchasing timeline for the job.

Public Works recommends purchase of the Vortex Flow Insert in the amount of \$27,938.00 from IPEX USA LLC of Pineville, North Carolina. A waiver of bids is requested from the Board of Trustees as the device is patented. Please present this to the Board of Trustees at their regularly scheduled meeting of April 5, 2018. Upon approval, return a signed copy to Public Works Engineering for further processing.

VORTEX ESTIMATE

IPEX Customer Service Office

Phone: 888-461-5307
Fax: 888-461-5309
Contact: Marc Bower

Date: March 8, 2018

Customer: Village of Lombard
Contact: Ray Schwab
Phone: (630) 620-5979
Fax: -

Description: IPEX Vortex Flow PVC Insert Fitting
US Patents # 6,419,843 & # RE40,407

Project Name: Village of Lombard
Project Location: Lombard, IL

Peak Flow: 1.10 MGD
Drop Height: 78.00 in
IPEX Drawing: ILKK18-1A

Dated: 12/04/17

Estimated Price: \$27,938.00 USD (freight included)
(Suggested sell to Contractor)

Price includes: The PVC Vortex unit and freight to project location.

Not included in Price: Strapping, anchorage and sealant are not included (the cost of these items will need to be added to the cost of the Vortex structure). Large Vortex units may require additional structural support which is not included in this estimate. IPEX will advise if added support is recommended. All supports, strapping, sealant, bolts, hardware are to be specified by a licensed engineer.

Estimate Valid for Orders Placed By —————▶ **4/30/2018**

Delivery: Estimated delivery is approx. 4~12 weeks after sign-off sheets on critical design information and PO with valid delivery address are received and accepted by IPEX

Regional Manager: Kerry Koressel
Phone: 812-470-0306
Email: kerry.koressel@ipexamerica.com

Attachments: - 1 Drawing of Unit, Design Checklist

