


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 : December 12, 2016 Agenda Date: December 15, 2016
TITLE : Waiver of Bids – MSI Sewer Inspection
SUBMITTED BY: Brian M. Jack, Utilities Superintendent 

RESULTS:

Date Bids Were Published _____ Bidding Closed _____
Total Number of Bids Received _____
Total Number of Bidders Meeting Specifications _____
Bid Security Required _____ Yes _____ No
Performance Bond Required _____ Yes _____ No
Were Any Bids Withdrawn _____ Yes _____ No
Explanation:
Waiver of Bids Requested? _____ **X** Yes _____ No
If yes, explain:
Award Recommended to Lowest Responsible Bidder? _____ Yes _____ No
If no, explain:

FISCAL IMPACT:

Engineer's Estimate/Budget Estimate \$40,000.00
Amount of Award \$40,000.00 Account: RM PROG 31
520.790.715.75420

BACKGROUND/RECOMMENDATION:

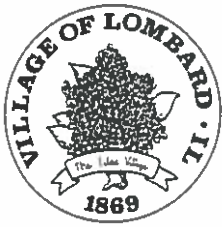
Waive bids and award contract for sewer inspection services.

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 **X** _____ 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.



MEMORANDUM

To: Scott Niehaus, Village Manager

Through: Carl S. Goldsmith, Director of Public Works *CS*

From: Brian M. Jack, Utilities Superintendent *B*

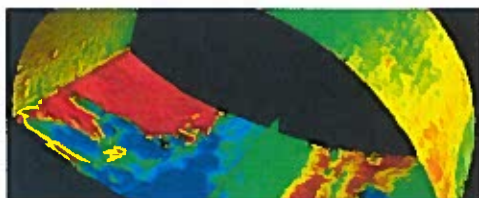
Date: December 12, 2016

Subject: Waiver of Bids - MSI Sewer Inspection

Background

The Village performs a multitude of routine maintenance programs within the Water and Sewer Capital Reserve Budget to include sewer televising and inspection. The purpose of this program is to identify current and potential failures in the sewer system in order to make repairs to prevent sanitary sewer backups and a disruption in sewer service to residents and businesses of Lombard. Specific inspection areas arise throughout the year outside of programmed locations for capital projects and immediate needs assessments. Three such locations were identified for 2016 and relate to the North Broadway/Gatz Pond Storm Sewer Separation projects; pipe condition assessments for the Charles Lane detention pond; and the 24" combined sewer in the Foxworth Subdivision that conveys sewage from the Yorktown Commons area to the Glenbard Wastewater Authority interceptor sewers. Historically traditional CCTV (Closed Circuit Television) inspections would be done for this type of project.

The Village was contacted by RedZone Robotics of Pittsburgh, PA and locally from Libertyville, IL to introduce their proprietary technology of Multi Sensor Inspections (MSI) that combines conventional CCTV with synchronized laser and sonar dimension information. It is a unique full 360° quantitative view of the pipeline which will report issues with corrosion, sediment, ovality, and pipe wall thickness and conditions (breaks/failures).



Redzone Robotics uses robotic crawlers that specialize in larger diameter pipes/sewers that conventional CCTV inspections would provide poor reports/video quality due to the size of the pipe. This technology provides higher quality information than CCTV along with pipe condition and thickness.

Redzone Robotics provided a quote (enclosed) of \$40,000 for this specific project. The cost is based upon two full day rates and additional inspections can be completed as identified by the Village to complete the two full days. Redzone also stated that the cost of this "pilot" project can be credited back to the Village if the Village decides to complete a full assessment of the sewer system.

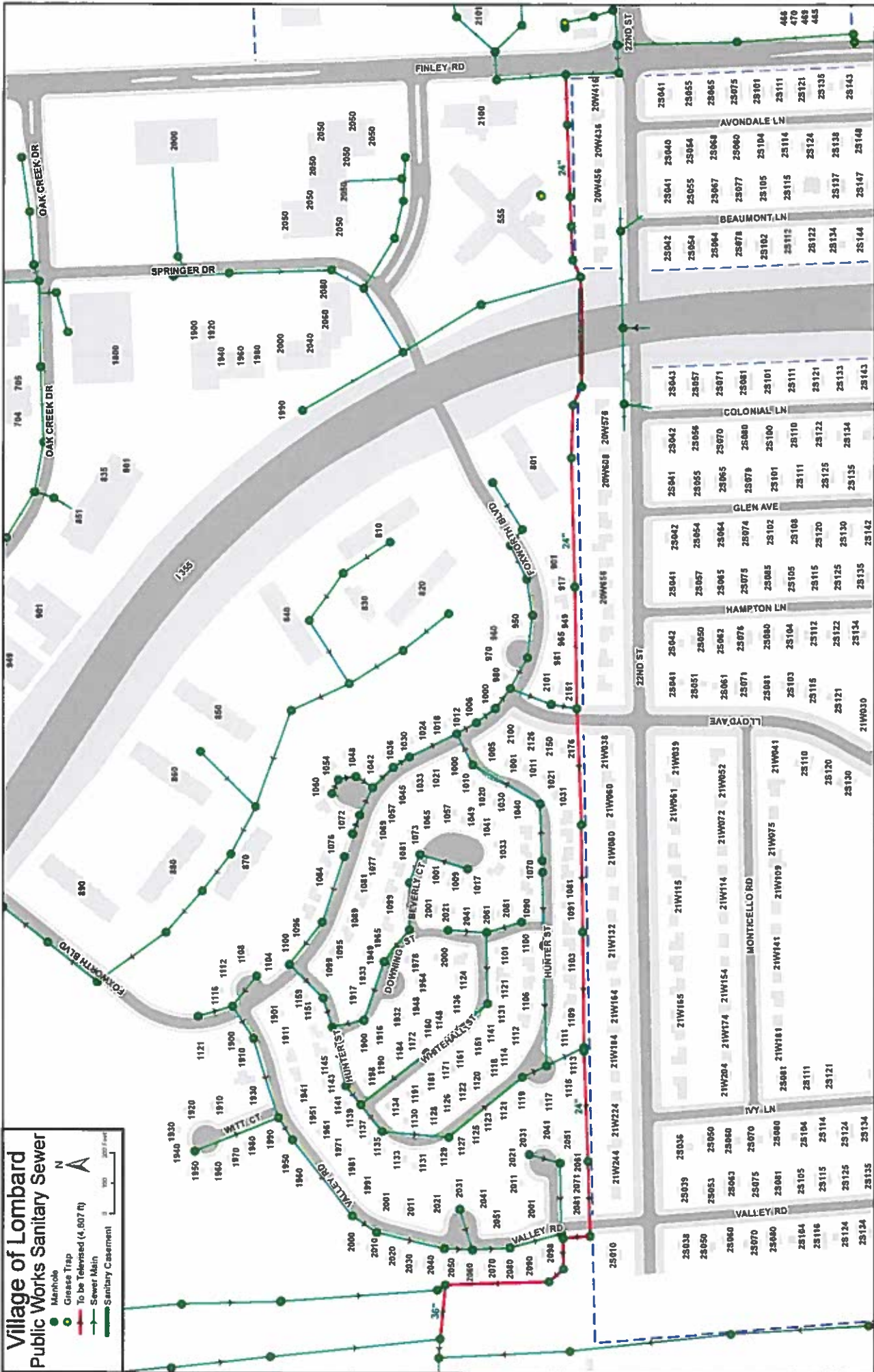
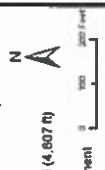
Redzone Robotics offers a full condition assessment tool for the Village's complete sewer system. Department staff are reviewing the feasibility of this assessment to work in conjunction with the SL-RAT (Sewer Line - Rapid Assessment Tool) that can accelerate the inspection of the entire sewer system in Lombard and reduce the cost by an estimated 60% of traditional CCTV inspections. This assessment tool would also provide much more analytical information regarding our sewer system.

Recommendations

I am requesting that the Village Board approve a waiver of bids for RedZone Robotics of Pittsburgh, PA to perform a Storm and Sanitary Sewer Inspection project for an amount not to exceed \$40,000. Funds are available in the Water and Sewer Capital Reserve RM PROG 31.

Village of Lombard Public Works Sanitary Sewer

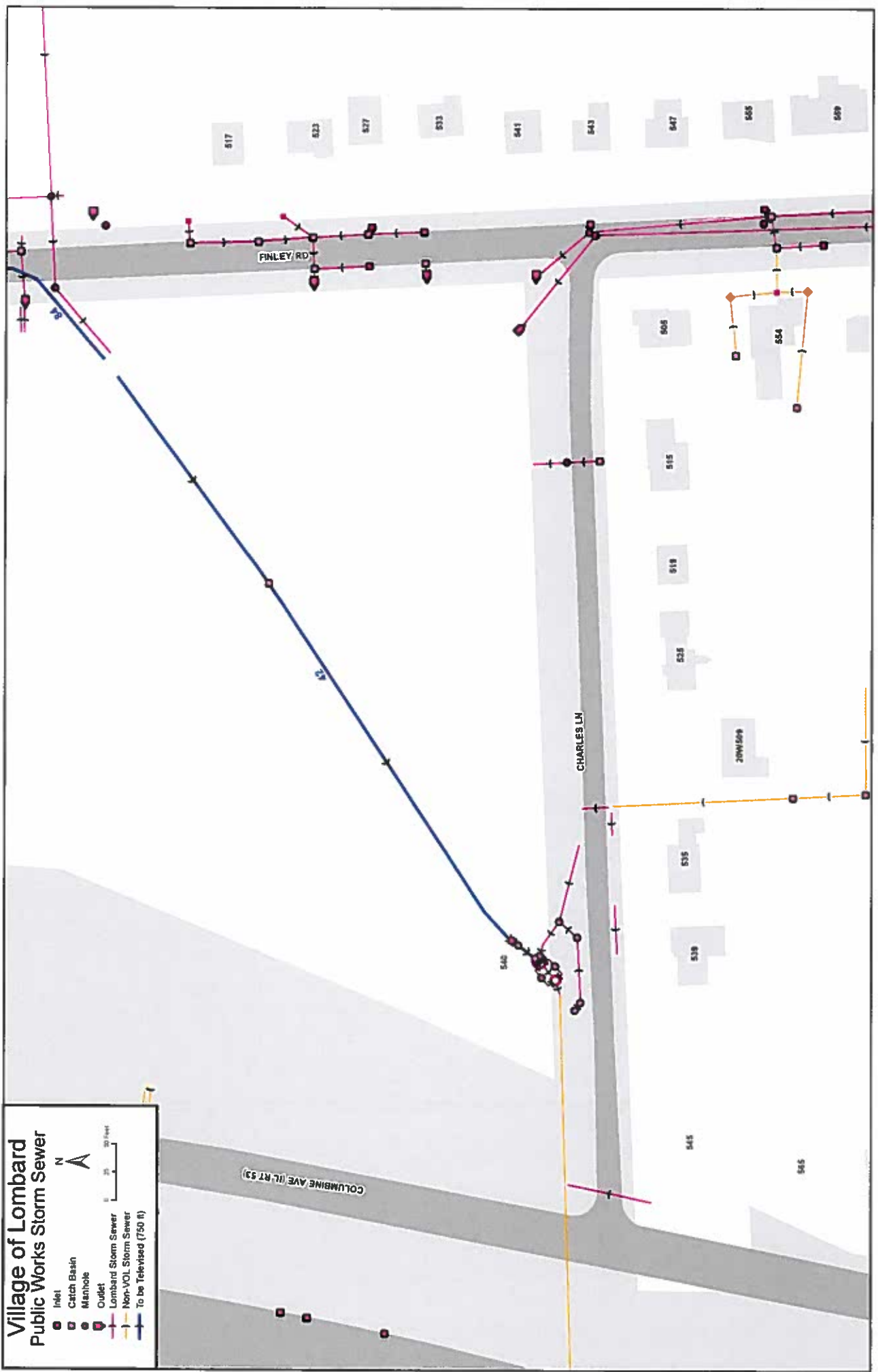
- Manhole
- Grease Trap
- To be Telemetered (4,607 ft)
- Sewer Main
- Sanitary Casement



**Village of Lombard
Public Works Storm Sewer**

Inlet
 Catch Basin
 Manhole
 Outlet
 Lombard Storm Sewer
 Non-VOL Storm Sewer
 To be Televised (750 ft)

N
 0 25 50 Feet





December 9, 2016

Brian Jack
Ying L. Miao
Village of Lombard
255 E Wilson Ave. Lombard, IL 60148

RE: MSI Storm and Sewer Investigation

Dear Brian and Ying,

RedZone Robotics would like to thank the Village of Lombard for the opportunity to provide a quote for the two inspection projects mentioned below. RedZone will utilize our MSI MD Profiler and Responder assets for the inspection of lines in question. The work is anticipated to take 2 Days. We are ready to schedule the work upon signing of the proposal.

Project(1)-

· 750' of 42" RCP storm sewer (located at Charles Ln and RT 53 – this pipe goes into a wet land and would be difficult for traditional CCTV equipment.)

· 4,500' of 24" RCP sanitary sewer (located in backyards of the Foxworth Subdivison from Finley Rd to Valley Rd).

Project(2)-

Storm sewer to be inspected for the I/I issue is between the structure PS 400, just east of Fairfield, and the structure JCT303 at Chase Ave. The size of the sewer arranges from 72" to 108" including the trunk sewer and two lateral stubs. The total length of the sewer is about 1,800 linear feet.

	Quantity	Unit of Measure	Unit Price	Total Price
Mobilization	1	L/S	Included	Included
MSI (CCTV, Laser, Sonar)	7,050+	LF	Included	Included
Traffic Control (cones and flags)	1	L/S	Included	Included
Reporting-Includes PACP Database	1	L/S	Included	Included
Total		L/S		\$40,000.00

- Project to include additional footage on Day two (2) if time allows.
- RedZone will provide a credit for this project should the Village elect to execute one of the larger projects proposed on November 10, 2016.

1. INSPECTION SCOPE OF SERVICES

RedZone Robotic Services shall provide all the labor, equipment, and material to provide the scope of work services mentioned above:

REDZONE BUDGET PRICING TO INCLUDE:

- 1.1. RedZone shall provide multiple robotic technologies including conventional CCTV and Solo, trained operating crews, analyst, and the necessary appurtenances to access and collect data for the various size sewers utilizing a combination technologies.
- 2. Exclusions and Special Conditions
 - 2.1 Others to assist in providing access into interceptor for entry.
 - 2.2 Unusual or unique access manholes, vaults or shafts for deployment that require non-standard means/methods and or equipment for insertion and inspection purposes.
 - 2.3 RedZone excludes all bonds
 - 2.4 RedZone excludes prevailing wages
 - 2.5 RedZone excludes traffic control and permits beyond typical signs and cones.

Thank you again for your consideration.

Sincerely,



Tim Graeb
Regional Business Development Manager
RedZone Robotics, Inc.

Acceptance / Terms and Conditions

Client signature below will be regarded as Acceptance and Notice to Proceed

Signature: _____
Name: _____
Title: _____
Date: _____