



InterOffice Memo

To: Public Works Committee
 From: David A. Dratnol, P.E., Village Engineer
 Through: Carl Goldsmith, Director of Public Works
 Date: March 3, 2010
 Subject: Storm Water/ Combined Sewer Modeling Project
 Estimate for additional flow monitoring

As requested by the Public Works Committee, staff has obtained the following estimate for additional flow monitoring to determine the effects and value of the interim separation improvements on the existing separated storm sewer as determined by the flow model.

The parameters of the estimate are as follows:

- Monitoring at 4 locations
- Cost for monitoring on a monthly charge for one year duration and the cost of moving the monitors to various locations. Size of pipes from 24" to 84" diameter. Manholes are a minimum of 48" diameter.
- The work includes data submitted every two weeks via electronic format. Data management software will be included.

Estimated Costs:

Installation and first month	\$7,700.00
Monthly monitoring charge	\$3,700.00
Cost to relocate equipment	\$1,100.00

1 Year total with no relocates: \$48,400.00

- Note: This cost does not include putting the data into the flow model. Once the data for significant storms have been accumulated it will be necessary for Christopher B. Burke Engineering Ltd to input the data and recalibrate the XP-SWMM model. They would then run the interim separation scenario and analyze the impacts.

This monitoring can be used as part of the preliminary engineering associated with the design and implementation of the sewer separation projects. The results of the monitoring will be used to model the system and design the SCADA system components associated with directing appropriate flows into the storm sewer system or back into the combined sewer depending on available storm sewer capacity.

ELAN Technologies, Inc.
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ELAN Technologies Quotation # RJS022610Rev3	
Paul Kuehnlenz, E-mail kuehnlenzp@villageoflombard.org Village of Lombard 255 E. Wilson Ave. Lombard, IL 60148 Phone: 630-620-5976	Date: February 26, 2010
	Terms: Net 30
	F.O.B.: Delivered
	Salesperson: Raymond J. Sowinski
	Proposed Start Date: Please allow 2-3 wks Upon Notice To Proceed

Conditions: The prices and terms on this quotation are not subject to verbal changes or other agreements unless approved in writing by the Home Office of the Seller. All quotations and agreements are contingent upon strikes, accidents, fires, availability of materials and all other causes beyond our control. Prices are based on costs and conditions existing on date of quotation and are subject to change by the Seller before final acceptance.

Typographical errors and stenographic errors subject to correction. Purchaser agrees to accept either overage or shortage not in excess on ten percent to be charged for pro-rata. Purchaser assumes liability for patent and copyright infringement when goods are made to Purchaser's specifications. When quotation specifies material to be furnished by the purchaser, ample allowance must be made for reasonable spoilage and material must be suitable quality to facilitate efficient production.

Conditions not specifically stated herein shall be governed by established trade customs. Terms inconsistent with those stated herein which may appear on Purchaser's formal order will not be binding on the Seller.

Quantity	Description	Unit Price	Extended
	<u>2010 Sewer Flow Monitoring – Lombard, IL</u>		
	<u>Scope:</u> Four Manholes shall be flow monitored at locations as determined by the engineer. Pipe sizes shall range from 24" to 84" diameter sewers. Includes equipment, equipment programming, calibration, installation, confined space entry, data retrieval, routine maintenance, equipment removal & equipment cleaning. CSE requires two men minimum. Data shall be submitted to engineer via electronic format every two weeks. Software shall be included for use by the Village at no additional cost.		
	<u>Installation/Service/Maintenance:</u> Includes installation/removal, data downloads and sensor checks every two weeks for four (4) sites. First month includes installation. Subsequent months are for service, maintenance, and data downloads/submission only.		
	<u>Pricing(12-month project duration assumed):</u>		
1	1 st Month	\$7,700.00	\$7,700.00
11	Monthly monitoring for pipe sizes 24" to 84" as above.	\$3,700.00	\$40,700.00
Per	Deduct (per site) from monthly monitoring above (diams. between 8" & 21")	\$75.00	\$75.00
Per	Cost to relocate flow meter	\$1,100.00	\$1,100.00
	NOTES: 1) If it is determined monitoring points require cleaning or flushing to properly monitor flow, it is by others. 2) Elan shall not be responsible for start delays due to adverse weather conditions or dangerously high levels, or other conditions beyond our control. 3) Quote is valid for 60 days. 4) Taxes are not included in the above amount. 5) Elan shall not be responsible for equipment replacement if failed or damaged due to excessive flows or debris beyond reasonable amounts. Efforts will be made to change out malfunctioning equipment within 1 week of finding said equipment. Invoiced at current pricing/standard labor rates.		

Quote Prepared By: _____

Raymond J. Sowinski

Accepted By: _____

Date Accepted: _____

DIRECT ORDERS TO:
ELAN Technologies, Inc.
 14627 Edison Drive
 New Lenox, IL 60451