

DISTRICT # 2 & #6

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

 X Resolution or Ordinance (Blue) _____ Waiver of First Requested

Recommendations of Boards, Commissions & Committees (Green)
Other Business (Pink)

TO: PRESIDENT AND BOARD OF TRUSTEES

FROM: Scott Niehaus, Village Manager

DATE: September 12, 2016 (COW) (B of T) **Date:** September 15, 2016

TITLE: Roosevelt Rd Water Main Lining, Phase II
Resident Engineering Services

SUBMITTED BY: Al Stefan, P.E., Village Engineer *AS*

BACKGROUND/POLICY IMPLICATIONS:

Provision of full time construction observation/inspection services for the Roosevelt Rd Water Main Lining project, Phase II.

FISCAL IMPACT/FUNDING SOURCE:

Total Contract Amount: \$309,127.74
Total CIP Budget Amount: \$314,000.00
NWS Project Number: WA 12 03
Account: Water/Sewer Capital Reserve: 520.790.715.75420

Review (as necessary):

Village Attorney X _____ Date _____
Finance Director X _____ Date _____
Village Manager X _____ Date _____

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



To: Scott Niehaus, Village Manager

Through: Carl Goldsmith, Director of Public Works 

From: Al Stefan, P.E., Village Engineer 

Date: September 12, 2016

Subject: Roosevelt Road Water main Lining, Phase II
Resident Engineering Services

Attached please find a resolution, contract and fee schedule regarding resident engineering services for the Roosevelt Road Water Main Lining project, East Phase.

Thomas Engineering Group, LLC (TEG) is the resident engineering for the Roosevelt Road Water Main Lining, Phase I, constructing in 2016. TEG has been providing the level of services met the expectation of the Village. The selection of TEG as the resident engineering firm was made from the FY 2014/2015 Resident Engineering Short List. The resident engineering short list is comprised of five (5) firms. The Short List has been extended through December 31, 2016.

Based on the excellent professional services provided by the TEG for the Phase I, and TEG is familiar to the water main lining processes, the Public Works staff recommends TEG to be the resident engineer for the Roosevelt Road Water Main Lining, Phase II.

The scope and fee were negotiated with Thomas Engineering Group, LLC and agreed to by both parties. The not-to-exceed fee for resident engineering services is \$309,127.74.

Please present this agreement and resolution to the President and Board of Trustees for their review at their regular meeting of September 15, 2016. If approved, please return three original signed copies to Public Works-Engineering for further processing.

RESOLUTION
R _____ 16

A RESOLUTION AUTHORIZING SIGNATURE OF
PRESIDENT AND CLERK ON AN AGREEMENT

WHEREAS, the Corporate Authorities of the Village of Lombard have received an Agreement between the Village of Lombard, and Thomas Engineering Group, LLC for the Roosevelt Rd Water Main Lining Phase II project as attached hereto and marked Exhibit "A", and

WHEREAS, the Corporate Authorities deem it to be in the best interest of the Village of Lombard to approve such agreement.

NOW, THEREFORE, BE IT RESOLVED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF LOMBARD, DU PAGE COUNTY, ILLINOIS as follows:

SECTION 1: That the Village President be and hereby is authorized to sign on behalf of the Village of Lombard said agreement as attached hereto.

SECTION 2: That the Village Clerk be and hereby is authorized to attest said agreement as attached hereto.

Adopted this 15th day of September, 2016.

Ayes: _____

Nays: _____

Absent: _____

Approved this 15th day of September, 2016.

Keith Giagnorio
Village President

ATTEST:

Sharon Kuderna
Village Clerk



VILLAGE OF LOMBARD CONTRACT

CONTRACT DOCUMENT NUMBER WA-12-03 Roosevelt Road Water Main Lining, Phase II Resident Engineering Service

This agreement is made this 15th day of September, 2016, between and shall be binding upon the VILLAGE of Lombard, an Illinois Municipal Corporation hereinafter referred to as the "VILLAGE" and Thomas Engineering Group, LLC. hereinafter referred to as the "ENGINEER" and its successors.

Witnessed, that in consideration of the mutual promises of the parties delineated in the contract documents, the ENGINEER agrees to perform the services and the VILLAGE agrees to pay for the following services as set forth in the contract documents:

Resident Engineering services for Roosevelt Rd Water Main Lining, Phase II

1. This contract shall embrace and include all applicable contract documents listed below as if attached hereto or repeated herein:
 - a. Request for Qualifications and Request for Proposal (December 13, 2013) consisting of the following:
 - i) Cover Sheet
 - ii) Table of Contents
 - iii) General Provisions
 - iv) Special Provisions
 - v) Request for Qualifications and Proposals for Resident Engineering Short-List
 - vi) Instructions Regarding the Consultant Evaluation Form
 - vii) Instructions Regarding the Statement of Qualifications Form
 - viii) Consultant Evaluation Form
 - ix) Statement of Qualifications Form
 - b. ENGINEER'S Proposal Dated September 9, 2016
 - c. ENGINEER'S Work Effort and Fee Dated September 8, 2016
 - d. Required Certificates and Signatures and Certificate of Insurance
2. The VILLAGE agrees to pay, and the ENGINEER agrees to accept as full payment for the services, which are the subject matter of this contract in accordance with the General Provisions.
3. This Contract represents the entire agreement between the parties and may not be modified without the written approval of both parties.

IN WITNESS WHEREOF, the Village of Lombard, Illinois by Keith Giagnorio, Village President, and the ENGINEER have hereunto set their hands this 15th day of September, 2016.

If an individual or partnership, all individual names of each partner shall be signed or if a corporation, an officer duly authorized shall sign here:

Thomas Engineering Group, LLC

Accepted this _____ day of _____, 2016.

Individual or Partnership _____ Corporation _____

By

Position/Title

By

Position/Title

THE VILLAGE OF LOMBARD, ILLINOIS

Accepted this 15th day of September, 2016.

Keith Giagnorio, Village President

Attest:

Sharon Kuderna, Village Clerk

**VILLAGE OF LOMBARD
ENGINEER'S CERTIFICATION**

_____, having been first duly sworn depose and states as follows:
(Officer or Owner of Company)

_____, having submitted a proposal for:
(Name of Company)

Roosevelt Rd Water Main Lining, Phase II to the Village of Lombard, hereby certifies that said ENGINEER:

1. has a written sexual harassment policy in place in full compliance with 775 ILCS 5/2-105(A) (4).
2. is not delinquent in the payment of any tax administered by the Illinois Department of Revenue, or if it is:
 - a. it is contesting its liability for the tax or the amount of tax in accordance with procedures established by the approve Revenue Act; or
 - b. it has entered into an agreement with the Department of Revenue for payment of all taxes due and is currently in compliance with that agreement.
3. is in full compliance with the Federal Highway Administration Rules on Controlled Substances and Alcohol Use and Testing, 49 CFR Parts 40 and 382 and that

(Name of employee/driver or "all employee drivers")
is/are currently participating in a drug and alcohol testing program pursuant to the
aforementioned rules.

By: _____
Officer or Owner of Company named above

Subscribed and sworn to
before me this _____
day of _____, 2016.

Notary Public

September 9, 2016

Ms. Ying Miao
Project Manager
Village of Lombard
1051 S. Hammerschmidt Avenue
Lombard, Illinois 60148-3926

Re: Proposal for Contract Document Number WA 12-03
Roosevelt Road Water Main Lining, Phase 2 (East) – Resident Engineering Services

Dear Ms. Miao:

Thomas Engineering Group, LLC (TEG) respectfully submits the enclosed Proposal to the Village of Lombard to provide Resident Engineering Services for the Roosevelt Road Water Main Lining Project, Phase 2 (East Contract).

Our firm is very familiar with Lombard processes, has excellent pertinent experience, and understands fully the purpose and scope of this Project. We understand the Village's expectations and look forward to exceeding them on this Project. TEG is proposing the exact same team for the East Contract that is currently managing the West Contract, except that TEG is proposing to provide the public outreach services without a communications subconsultant.

Our proposed Project Manager, Edward Herlihy, P.E., has gained firsthand knowledge of being a successful Resident Engineer and Project Manager having served in this capacity for over 20 years with many Lombard projects. Mr. Herlihy is currently serving as the Project Manager for the West Phase of the Project. Our proposed Resident Engineer, Matt Champine, P.E., a Lombard resident, is a registered professional engineer with 10 years of experience. Along with his construction management experience, Mr. Champine is an excellent communicator and will be actively involved with the public communications for the Project. Matt is currently serving as the Resident Engineer for the West Phase of the Project.

Please refer to the attached Proposal which outlines the proposed scope of services according to discussions with key Village staff and our experience with Phase 1 services. The proposed resident engineering fees are \$309,127.74 including construction inspection and public outreach described in the Proposal. Please be aware that the construction cost estimate for the East Contract is \$4,273,162.10, according to the Bid Tab dated March 7, 2016. Our proposed labor fees and direct costs are estimated at 7.2% of the estimated construction cost.

If you have any questions or require additional information, please call me at (847) 815-9500 or by e-mail at kevinv@thomas-engineering.com.

Sincerely,
thomas engineering group, llc



Kevin C. VanDeWoestyne, P.E.
Municipal Department Head

Enclosures

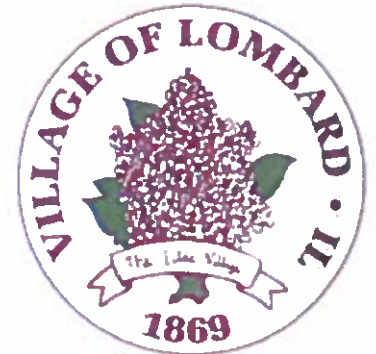
cc/email: Mr. Thomas Gill, P.E., Thomas Engineering Group, LLC
Mr. Ed Herlihy, P.E., Thomas Engineering Group, LLC



Village Lombard
Contract Number WA 12-03
Roosevelt Road Water Main Lining, Phase 2
Resident Engineering Services



Submitted to:



Mr. Carl Goldsmith
Director of Public Works
1051 S. Hammerschmidt Avenue
Lombard, Illinois 60148-3926
(630) 620-5740

September 9, 2016

Submitted by:



Thomas Engineering Group, LLC
55 West 22nd Street
Suite 300
Lombard, Illinois 60148





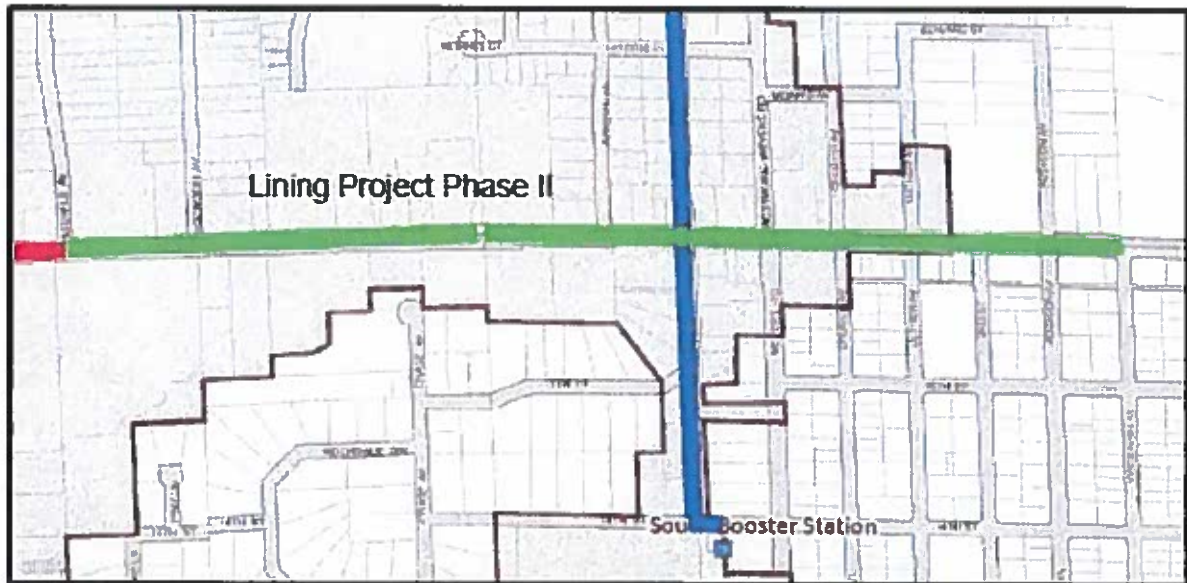
Village of Lombard
Resident Engineering Services
Roosevelt Road Watermain Lining, Phase 2 – East Contract

Proposal

Project Understanding

The existing Illinois Route 38 (Roosevelt Road) water main network is being rehabilitated in order to continue serving Lombard’s water customers with high quality water and fire flow demands for the existing population in the community. The Roosevelt Road water main is between 40 and 50 years old and subsequently experiences frequent breaks causing service interruptions and costly repairs. Generally along the corridor a distribution water main, ranging between 8” to 12” diameter, serves as an east-west link along the north and south parkways of Roosevelt Road from approximately 1200’ west of Finley Road to Wisconsin Avenue, or roughly 12,500 linear feet of distribution main. Due to the increased maintenance and water main break history along the heavily travelled Route 38 corridor, the existing network is currently planned for a two-stage lining rehabilitation by installation of cured-in-place pipe (CIPP).

Phase 1, the West Contract, includes rehabilitation of approximately 7,000 LF of water main on Roosevelt Road from Finley Road (western Village limits) to Fairfield Avenue. Phase 2, the East Contract, includes rehabilitation of approximately 9,000 LF of water main on Roosevelt Road from Fairfield Road to Wisconsin Avenue. TEG is currently providing Resident Engineering Services for the Roosevelt Road Water Main Lining Project, Phase 1 (West Contract) and we proposed to provide Resident Engineering Services for Phase 2 (East Contract), as requested by the Village.





Village of Lombard Resident Engineering Services Roosevelt Road Watermain Lining, Phase 2 – East Contract

Proposal

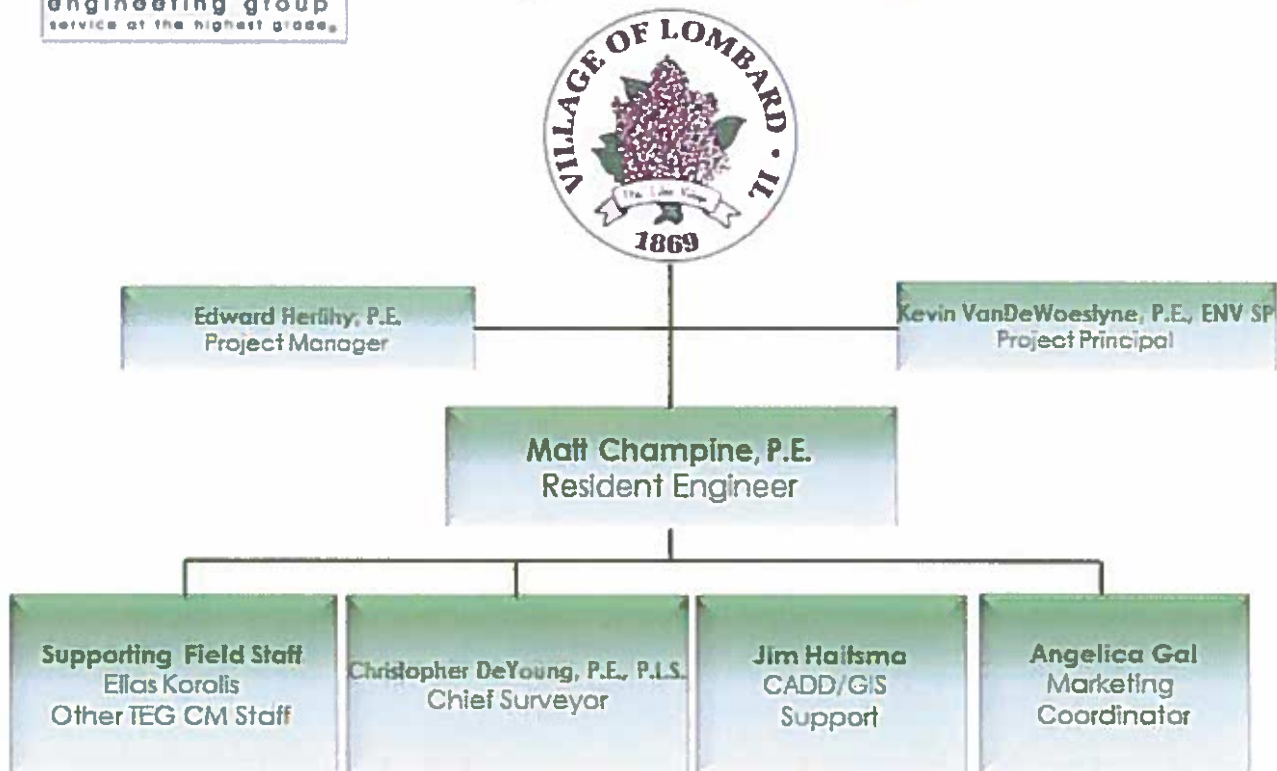
While providing Resident Engineering Services for the Roosevelt Road Water Main Lining Project, Phase 1 (West Contract), TEG has developed a thorough understanding of water main lining, Lombard's expectations, and the Village's public communications processes. TEG is proposing the exact same team for the East Contract that is currently managing the West Contract, except that TEG is proposing to provide the public outreach services without a communications subconsultant.

Project Team

Our proposed Project Manager, Edward Herlihy, P.E., is currently serving as the Project Manager for the West Contract and is the proposed Project Manager for the East Contract. Our proposed Resident Engineer, Matt Champine, P.E., a Lombard resident, is a registered professional engineer with 10 years of experience. Mr. Champine is an excellent communicator and will be actively involved with the public communications for the Project. Matt is currently serving as the Resident Engineer for the West Phase of the Project and is the proposed Resident Engineer for the East Phase of the Project. Unlike the West Phase of the project, TEG proposes to perform the public outreach and communications using internal marketing and engineering staff. Angelica Gal, TEG's Marketing Coordinator, will prepare the open house exhibits and coordinate the public outreach for the East Phase of the Project.



Organizational Chart





Village of Lombard
Resident Engineering Services
Roosevelt Road Watermain Lining, Phase 2 – East Contract

Proposal

Project Approach and Scope

TEG proposes to provide the following Scope of Services for the Roosevelt Road Watermain Lining, Phase 2 (East Contract) project. These items are designated in **bold lettering**. Following is a listing of the scope of services that are anticipated in a logical sequence, and is intended to highlight specific areas where TEG will add value and experience to the project.

PRE-CONSTRUCTION PHASE

1. Following the pre-construction meeting, TEG will conduct a constructability review of the contract documents. Review the plans and specifications in depth, verifying quantities, elevations and dimensions relevant to the project. This type of review will identify potential conflicts or issues and allow TEG to develop solutions and discuss with the Village prior to construction.
2. Conduct a meeting with Village to discuss goals, objectives, verify documentation requirements, and expectations for the project.
3. Conduct a utility meeting with all affected utilities, if any to verify or establish schedules for adjustments.
4. Conduct a pre-construction conference with the contractor, the Village and other applicable parties. Obtain from the contractor a list of proposed suppliers and subcontractors, and emergency contact information for the prime and subcontractors. Make recommendations to Lombard regarding the suitability of the subcontractors for the proposed work. Provide meeting minutes to all parties the next business day following the meeting including a contact list for all contractors, subcontractors, material suppliers, and TEG personnel.
5. Begin Public Outreach and Communication by coordinating with the Village's key staff.
6. Prepare exhibits and PowerPoint presentation, and hold Public Information Meeting with key Village staff at a location to be determined.
7. Review contractor's schedule for compliance with contract. No payouts will be allowed until the schedule is approved. Our RE will track actual progress in relation to the approved schedule and hold ongoing discussions with the contractor regarding his progression of work.
8. Review all permit requirements and verify contractor is in compliance.
9. Set up field books, quantity book, diary and other forms of documentation.
10. Explain to the contractor the importance of keeping the required maintenance logs accurate for the work they perform (temporary and permanent).
11. Check and approve, or reject and request re-submittal of any submittals made by the contractor for compliance with the contract documents.
12. Assist bus companies and garbage collection services with establishing alternate routes during construction.





Village of Lombard Resident Engineering Services Roosevelt Road Watermain Lining, Phase 2 – East Contract

Proposal

CONSTRUCTION PHASE



1. Continue Public Outreach and Communication and provide content for Village Website, E-blasts, and Newsletters on a weekly / bi-weekly basis as determined by the Village.
2. Observe the progress and quality of the executed work. Determine if the work is proceeding in accordance with the Contract Documents. TEG will maintain daily contact with Village, keeping Lombard informed of the progress of the work, guard Lombard against defects and deficiencies in the work, advise Lombard of all observed deficiencies of the work and disapprove and reject all work failing to conform to the Contract Documents. TEG will also help coordinate efforts between the contractor and any other agency officials that may have an interest in the project.
3. Review contractor's schedule on a regular basis and update progress schedule. TEG will compare actual progress to contractor's approved schedule. If progress falls behind, we will work with contractor to take appropriate action to get back on schedule.
4. Provide liaison functions to facilitate coordination of utilities (Nicor, AT&T, ComEd, Comcast etc.). Maintain contact with utility companies as frequent as necessary and monitor their contractor's compliance with proposed schedules. Verify that adjustments or relocations are clear of proposed improvements.
5. TEG staff will comply with the Village's PPE policy. All staff is equipped with the current certified safety vests and steel toed shoes. Our proposed PM will ensure all TEG staff on the project complies with the Village PPE policies.
6. Provide extensive on-site observations of the work in progress and field checks of contractor methods, materials and equipment through the Resident Engineer or Inspector, who will:
 - a) Coordinate with appropriate Public Works departments as necessary as contractor progresses with work on sanitary, storm sewer and water main improvements. Ensure contractor is following applicable Village standards and specifications during installation.
 - b) Serve as the Village liaison with the contractor working principally through the contractor's field superintendent.
 - c) Be present whenever the contractor is performing work on-site, associated with the project.
 - d) Ensure layout is accurate and complete.
 - e) Alert the contractor's superintendent when any work is being performed prior to acceptance of shop drawings or samples and advise the Village when it is necessary to disapprove any work failing to conform to the contract documents.
 - f) Monitor and document erosion control and ensure conformity with the plans and standards.

 nicor

 ComEd
An Exelon Company

 at&t

 comcast





Village of Lombard
Resident Engineering Services
Roosevelt Road Watermain Lining, Phase 2 – East Contract

Proposal

- g) Keep an inspector's daily report book in Lombard's format, or other required format appropriate for the project, recording hours on the job site, weather conditions, general and specific observations, daily activities, quantities placed, inspections, decisions, and list of visiting officials.
- h) Attend all construction conferences. Arrange a schedule of progress meetings and other job conferences as required. Maintain and circulate copies of records of the meetings.
- i) Perform daily barricade checks, and frequent overnight checks. Any deficiencies will be noted on a Barricade Check Report that will be sent to the contractor immediately with specific time frames for corrective action, and penalties noted for non-compliance.
- j) Maintain orderly files of correspondence, reports of job conferences, shop drawings, contractor's request for information, and other submissions, reproductions or original contract documents including all addenda, change orders and additional drawings issued subsequent to the award of the contract.
- k) Arrange for any required material testing. Coordinate material testing with the contractor's quality control team and schedule all necessary inspections in order to keep the work proceeding in a timely fashion.
- l) **PREPARE AND COORDINATE THE DISTRIBUTION OF A WEEKLY / BI-WEEKLY / MONTHLY NEWSLETTER FOR RESIDENTS AND BUSINESSES**
- m) Prepare payment requisitions and change orders. Review applications for payment with the Contractor for compliance with established submission procedure and forward them with recommendations to Lombard. Provide the Village a regular update on estimated final costs of the project. This will involve timely incorporation of any change orders and accurate quantity take-offs of remaining items.
- n) Except upon written instructions of Lombard, the Resident Engineer or Inspector shall not authorize any deviation from the Contract Documents.
- o) TEG staff has portable laptops and smart phones which enable staff to remotely communicate (via email). TEG prefers to have its staff in the field than in the field office. This allows TEG staff to verify files and resources in the field (vehicle) in lieu of leaving the site to look up a reference in the field office. Having a laptop with internet access is a necessity for being efficient.
- p) Shop Drawings and Contractor Submittals:
 - a. Record data received, maintain a file of drawings and submissions, and check construction for compliance with them.
 - b. Review Contractor's submittals for compliance with contract documents. Notify the Village of any deviations or substitutions. With the notification, provide the Village with a recommendation for acceptance or denial, and request direction from the Village regarding the deviation or substitution.
 - c. Alert the Contractor's field superintendent when materials or equipment are being installed before approval of shop drawings or samples, where such are required, and advise the Village when it is necessary to disapprove work as failing to conform to the Contract Documents.
- q) Record Drawings:
 - a. Document the location (vertically and horizontally) of sewer and water services.
 - b. Maintain a set of Record Drawings on which all changes are noted. Deliver both a





Village of Lombard
Resident Engineering Services

Roosevelt Road Watermain Lining, Phase 2 – East Contract

Proposal

reproducible set of drawings and AutoCAD drawing file(s) on CD ROM to the VILLAGE at the completion of the Project.

- c. The Resident Engineer shall deliver a draft of the record drawings for the underground utilities within one month of the substantial completion of the construction of the underground utilities.
- d. Collect GIS coordinates for key features as required by the Village, including the cost and installation date of the feature being installed, for incorporation into the Village's asset management software program.
- r) Expedite project close-out by providing final quantity measurements to the contractor throughout the project, instead of waiting until the end.
- s) Expedite acceptance of the project by maintaining a running punch list that informs the contractor of any deficient items and allows them time to correct deficiencies during the course of construction.
- t) Prior to final inspection, submit to the contractor a list of observed items requiring correction and verify that each correction has been made.
- u) Conduct a final inspection with the Village and prepare a final punch list of corrective or incomplete work.
- v) Verify that all items on the final list have been corrected and make recommendations to Lombard concerning project acceptance.

TEG's entire Construction staff is currently certified in IDOT's Documentation of Contract Quantities.

POST-CONSTRUCTION AND PROJECT CLOSE-OUT

- 1. Follow the IDOT guidelines for project closeout process. Although this is not an IDOT administered project, following these guidelines helps expedite the job closeout process.
- 2. Expedite final acceptance by obtaining material inspections and certifications before the items are incorporated in the project;
- 3. The Resident Engineer shall deliver a draft of the record drawings for the underground utilities within one month of the substantial completion of the construction of the underground utilities. This submittal shall include the individual service location sheets. TEG understands the need to close out a project quickly,
- 4. Provide the Village with a "Lessons Learned" report of issues encountered throughout the project and how they were addressed. TEG will conduct a meeting with the Village to discuss this report and how to improve similar projects in the future.
- 5. Post-process GIS survey data and provide data to Village that is compatible with the Village's GIS system.
- 6. Deliver job boxes and all project records to Village.

TEG hosts IDOT's Bureau of Materials for an IDOT Closeout Procedures seminar to assist with our quality assurance.



EXCLUSIONS

- 1. The Village is responsible for administration of IEPA Public Water Supply Loan Funding. Therefore, this service is excluded from the Scope of Services and associated cost described herein.





Village of Lombard
Resident Engineering Services
Roosevelt Road Watermain Lining, Phase 2 – East Contract

Proposal

Cost Proposal

The following content represents what TEG has developed in terms of engineering work effort necessary to provide the Village with Resident Engineering Services for the Roosevelt Road Watermain Lining, Phase 2 – East Contract, as described herein. The anticipated work effort and duration of professional services, found in the Attachments, is based on past exchanges of information with the Village and our understanding of the services, as provided in Phase 1 – West Contract.

We have utilized a direct labor multiple (DLM) contract type and a standard factor of 2.83 to calculate our cost estimate for consultant services (CECS). While we believe this estimate accurately reflects our understanding of Project described in our Proposal, we understand that the Village may interpret the scope of differently and may seek to add, subtract, or modify the scope or level of effort contained herein. We look forward to being selected by the Village and can negotiate the scope and effort to meet the exact expectations of the Village.

The proposed resident engineering fees are **\$309,127.74** including construction inspection and public outreach described in the Proposal. Please be aware that the construction cost estimate for the East Contract is \$4,273,162.10, according to the Bid Tab dated March 7, 2016. Our proposed labor fees and direct costs are estimated at 7.2% of the estimated construction cost.

Please reference the following pages for greater detail of our estimate.



Village of Lombard - Roosevelt Road Watermain Lining - 2017

Contract Document No.: WA 12-03

Exhibit A: Staff Hours Worksheet

Role	Staff	Prime Consultant	PRE-CONSTRUCTION		CONSTRUCTION										POST-CONSTRUCTION		Total Hours	
			76		2011										268			
			4-WEEK PERIOD ENDING	3/4/2017	4/1/2017	4/29/2017	5/27/2017	6/24/2017	7/22/2017	8/19/2017	9/16/2017	10/14/2017	11/11/2017	12/9/2017	1/6/2018	2/3/2018		
HOURS PER 4 WEEK PERIOD																		
QC/QA Manager	KV		0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Project Manager	EH		0	2	20	20	20	20	20	20	15	4	2	0	0	0	0	163
Resident Engineer	MC		0	72	78	220	220	220	220	220	200	160	20	0	0	0	0	1850
Layout Checks/Record Drawings	CD		0	0	4	0	10	0	10	0	10	0	10	0	0	0	0	44
Record Drawing Preparation	JH		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
Inspection	EK		0	0	0	0	32	32	32	32	32	32	0	0	0	0	0	256
PR Manager	KV/EH		0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	16
PR Preparation	AG		0	0	40	0	0	0	0	0	0	0	0	0	0	0	0	40
PR RE	MC		0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	10
TOTAL PR HOURS																	2-421	

In-House Direct Costs:	Vehicle Days @ \$65/day	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Public Outreach Materials and Printing = Lump Sum Estimate - to be billed at no mark up																		

Subconsultants	Role	Classification
	None	None

- Assumptions:
- Contractor April start + 210 Cal. Days + 10 Days = 11/7/17 End Date.
 - Post-Construction @ 4 weeks full time + 2 weeks part time (Documentation Closeout)
 - No Material Testing in TEG contract unless requested as extra service.
 - All PR by TEG & VOL.
 - DLM set at 2.83.
 - RE @ 50 to 55 hrs/wk.
 - RE completes record drawings.
 - IDOT allows concurrent EB & WB permanent closures.
 - Inspection assistance for RE at 1 day per week 8 hrs per day to allow for office time.

**EXHIBIT C
COST PLUS FIXED FEE
COST ESTIMATE OF CONSULTANT SERVICES**

FIRM Thomas Engineering Group, LLC DATE 09/08/16
 OVERHEAD RATE 1.4648
 COMPLEXITY FACTOR 0

ITEM	COST ESTIMATE USING FIXED FEE										% OF GRAND TOTAL
	MANHOURS (A)	PAYROLL (B)	OVERHEAD & FRINGE BENF (C)	IN-HOUSE DIRECT COSTS (D)	FIXED FEE (E)	Outside Direct Costs (F)	SERVICES BY OTHERS (G)	TOTAL (B-G)			
Public Outreach and Communication	66	2,455.00	3,596.08	720.00	908.35			\$ 7,679.43			2.48%
Pre-Construction	76	3,556.00	5,208.83		1,315.72			\$ 10,080.55			3.26%
Construction Engineering	2011	91,368.00	133,835.85		33,806.16			\$ 259,010.01			83.65%
Post Construction	268	11,599.00	16,990.22		4,291.63			\$ 32,880.85			10.62%
TOTALS	2421	108,978.00	159,630.97	720.00	40,321.86	0.00	0.00	\$ 309,650.83			100.00%
Calculated Profit % Using Cost Plus Fixed Fee (CPFF)		13.05%									
Equivalent Direct Labor Multiplier (DLM)		2.8348									
Proposed Fee Using 2.83 DLM		\$ 309,127.74									
Actual Profit % Using 2.83 DLM		12.87%									

*TEG proposes reduced multiplier of 2.83 DLM

