Municipa	Municipality		L O C Illinois Department of Transportation				C Civiltech Engineering, Inc.				
Townsh	p			A L		AFT	uon	N S U	Address 450 E. Devon Suite 300	on Avenue	
County Lake C Transp		nty – Division o	f	AGEN	Preliminary Engineering Services Agreement For			L T A N	A Rasca		
Section				CY	Non-Motor Fuel Tax Funds			T	State IL		
THIS AGREEMENT is made and entered into this day of, between the above Agency (LA) and Consultant (ENGINEER) and covers certain professional engineering services in connection with the improvement of the above SECTION. Non-Motor Fuel Tax Funds, allotted to the LA by the State of Illinois, under the supervision of the State Department of Transportation, hereinafter called the "DEPARTMENT", will be used entirely be to finance ENGINEERING services as described under AGREEMENT PROVISIONS.								vith the er the general			
					Sec	tion Descript	ion				
Name	E	remont Center	Roadway Ex	xtens	ion						
Route		CH 62	Length 0	).91	Mi.	4800.00	FT		(Structure No.	n/a	)
Termir	ni ,	IL Route 60 to	Peterson Ro	oad	2.0		1 27 27 27 27 27 27 27 27 27 27 27 27 27			<u> </u>	110 THOMS 202
	/eme						north to Pe	terso	on Road. Turn	lane cha	nnelization will
						ement Provis	ions				
	•	neer Agrees,									
		form or be responded						ervi	ces for the LA,	in connec	on with the
a.	$\boxtimes$	Make such de	tailed survey	s as	are necessary	for the prepa	ration of deta	ailed	roadway plans		
b.		Make stream of detailed brid		in hy	draulic survey	s and gather l	nigh water da	ıta, a	and flood histori	es for the	preparation
C.	$\boxtimes$	analyses there	eof as may b	e req	uired to furnis	h sufficient da	ta for the des	sign	cluding borings of the proposed ents of the DEF	l improve	ement.
d.	$\boxtimes$	Make or cause furnish sufficie						iters	ection studies a	is may be	e required to
e.	$\boxtimes$		sources-Offic	e of \	Nater Resour	ces Permit, Br	idge waterwa		ement Commiss ketch, and/or Cl		
f.		Prepare Prelinand high wate						nom	ic analysis of bi	idge or c	ulvert types)
g.		with one (1) co	py of each d	ocum	ent in both ho	ardcopy and e	lectronic forn	nat.	d estimates of o Additional cop ENGINEER's	ies of any	y or all
h.									ay dedications, f the correspon		
i.	i. 🛛 Assist the LA in the tabulation and interpretation of the contractors' proposals										

	j. Prepare the necessary environmental documents in accordance with the procedures adopted by the DEPARTMENT'S Bureau of Local Roads & Streets.
	k. The Prepare the Project Development Report when required by the DEPARTMENT.
	l. Services as included and/or defined in the attached Scope of Services.
2.	That all reports, plans, plats and special provisions to be furnished by the ENGINEER pursuant to the AGREEMENT, will be in accordance with current standard specifications and policies of the LA of the DEPARTMENT. It is being understood that all such reports, plats, plans and drafts shall, before being finally accepted, be subject to approval by the LA and the DEPARTMENT.
3.	To attend conferences at any reasonable time when requested to do so by representatives of the LA er the Department.
4.	In the event plans or surveys are found to be in error during construction of the SECTION and revisions of the plans or survey corrections are necessary, the ENGINEER agrees that the ENGINEER will perform such work without expense to the LA, even though final payment has been received by the ENGINEER. The ENGINEER shall give immediate attention to these changes so there will be a minimum delay to the CONTRACTOR.
5.	That basic survey notes and sketches, charts, computations and other data prepared or obtained by the ENGINEER pursuant to this AGREEMENT will be made available, upon request, to the LA or the DEPARTMENT without cost and without restriction or limitations as to their use.
6.	That all plans and other documents furnished by the ENGINEER pursuant to this AGREEMENT will be endorsed by the ENGINEER and will show the ENGINEER's professional seal where such is required by law.
Th	ne LA Agrees,
1.	To pay the ENGINEER as compensation for all services rendered in accordance with this AGREEMENT according to the following method indicated by a check mark:
	a.   A sum of money equal to percent of the awarded contract cost of the proposed improvement as
	approved by the DEPARTMENT.
	b. A sum of money equal to the percent of the awarded contract cost for the proposed improvement as approved by the DEPARTMENT based on the following schedule:
	Schedule for Percemages Based on Awarded Contract Cost
	Awarded Cost Percentage Fees
	Under \$50,096 (see note)
	%
	Note: Not recognizely a percentage. Could use per diem, cost plus or lump our
	Note: Not necessarily a percentage. Could use per diem, cost-plus or lump sum.
2.	To pay for all services rendered in accordance with this AGREEMENT at the actual cost of performing such work plus percent to cover profit, overhead and readiness to serve - "actual cost" being defined as material cost plus payrolls, insurance, social security and retirement deductions. Traveling and other out-of-pocket expenses will be reimbursed to the ENGINEER at the ENGINEER's actual cost. Subject to the approval of the LA, the ENGINEER may sublet all or part of the services provided in section 1 of the ENGINEER AGREES. If the ENGINEER sublets all or part of this work, the LA will pay the cost to the ENGINEER plus an additional service charge of up to five (5) percent.
	"Cost to Engineer" to be verified by furnishing the LA and the DEPARTMENT copies of invoices from the party doing the

The Total Not-to-Exceed Contract Amount shall be \$606760.00

the work performed.

work. The classifications of the employees used in the work should be consistent with the employee classifications for the services performed. If the personnel of the firm, including the Principal Engineer, perform routine services that should normally be performed by lesser-salaried personnel, the wage rate billed for such services shall be commensurate with

- 3. That payments due the ENGINEER for services rendered in accordance with this AGREEMENT will be made as soon as practicable after the services have been performed in accordance with the following schedule:
  - a. Upon completion of detailed plans, special provisions, proposals and estimate of cost being the work required by section 1 of the ENGINEER AGREES to the satisfaction of the LA and their approval by the DEPARTMENT, 90 percent of the total fee due under this AGREEMENT based on the approved estimate of cost.
  - b. Upon award of the contract for the improvement by the LA and its approval by the DEPARTMENT, 100 percent of the total fee due under the AGREEMENT based on the awarded contract cost, less any amounts paid under "a" above.

By Mutual agreement, partial payments, not to exceed 90 percent of the amount earned, may be made from time to time as the work progresses.

- 4. That, should the improvement be abandoned at any time after the ENGINEER has performed any part of the services provided for in sections 1 and 3 of the ENGINEER AGREES and prior to the completion of such services, the LA shall reimburse the ENGINEER for the ENGINEER's actual costs plus 191 percent incurred up to the time the ENGINEER is notified in writing of such abandonment -"actual cost" being defined as in paragraph 2 of the LA AGREES.
- 5. That, should the LA require changes in any of the detailed plans, specifications or estimates except for those required pursuant to paragraph 4 of the ENGINEER AGREES, after they have been approved by the DEPARTMENT, the LA will pay the ENGINEER for such changes on the basis of actual cost plus 191 percent to cover profit, overhead and readiness to serve -"actual cost" being defined as in paragraph 2 of the LA AGREES. It is understood that "changes" as used in this paragraph shall in no way relieve the ENGINEER of the ENGINEER's responsibility to prepare a complete and adequate set of plans and specifications.

### It is Mutually Agreed,

- 1. That any difference between the ENGINEER and the LA concerning their interpretation of the provisions of this Agreement shall be referred to a committee of disinterested parties consisting of one member appointed by the ENGINEER, one member appointed by the LA and a third member appointed by the two other members for disposition and that the committee's decision shall be final.
- 2. This AGREEMENT may be terminated by the LA upon giving notice in writing to the ENGINEER at the ENGINEER's last known post office address. Upon such termination, the ENGINEER shall cause to be delivered to the LA all surveys, permits, agreements, preliminary bridge design & hydraulic report, drawings, specifications, partial and completed estimates and data, if any from traffic studies and soil survey and subsurface investigations with the understanding that all such material becomes the property of the LA. The ENGINEER shall be paid for any services completed and any services partially completed in accordance with section 4 of the LA AGREES.
- 3. That if the contract for construction has not been awarded one year after the acceptance of the plans by the LA and their approval by the DEPARTMENT, the LA will pay the ENGINEER the balance of the engineering fee due to make 100 percent of the total fees due under this AGREEMENT, based on the estimate of cost as prepared by the ENGINEER and approved by the LA and the DEPARTMENT.
- 4. That the ENGINEER warrants that the ENGINEER has not employed or retained any company or person, other than a bona fide employee working solely for the ENGINEER, to solicit or secure this contract, and that the ENGINEER's has not paid or agreed to pay any company or person, other than a bona fide employee working solely for the ENGINEER, any fee, commission, percentage, brokerage fee, gifts or any other consideration, contingent upon or resulting from the award or making of this contract. For Breach or violation of this warranty the LA shall have the right to annul this contract without liability.

Executed by the LA: County of Lake of the (Municipality/Township/County) State of Illinois, acting by and through its ATTEST: County Board Lake County Clerk By Chairman of the County Board Title (Seal) RECOMMENDED FOR EXECUTION Martin G. Buehler, P.E. Director of Transportation/County Engineer Lake County Civiltech Engineering, Inc. Executed by the ENGINEER: Engineering Firm 450 E. Devon Avenue Suite 300 Street Address Itasca, IL 60143 ATTEST: City, State By < By Title President Vice President Title

IN WITNESS WHEREOF, the parties have caused the AGREEMENT to be executed in triplicate counterparts, each of which

shall be considered as an original by their duly authorized officers.





# **Fremont Center Road Extension**

**IL Route 60 to Peterson Road** 

Lake County Division of Transportation

March 27, 2012





# Professional Design Engineering Services Proposal Phase I and Phase II Engineering

Fremont Center Road Extension IL Route 60 to Peterson Road Lake County Division of Transportation | March 27, 2012

### I. PROJECT UNDERSTANDING AND APPROACH

All work will be performed in accordance with the applicable parts of the Lake County Division of Transportation (LCDOT) standards and guidelines, the Illinois Department of Transportation Bureau of Design and Environment (BDE) Manual and the Bureau of Local Roads and Streets (BLRS) Manual. In addition, all permitting will follow the requirements set forth by the Lake County Stormwater Management Commission (LCSMC), Illinois Environmental Protection Agency (IEPA), and the United States Army Corps of Engineers (USACOE).

Although a formal Phase I Engineering Study is not required for this project, several Phase I elements are still necessary for a Permit project. These include traffic and safety analyses as well as some environmental analyses.

This project involves the extension of Fremont Center Road from IL Route 60 on a new alignment north to a new intersection with the recently re-aligned Peterson Road. The new roadway section is anticipated to be 3 lanes, preferably with shoulders and an open drainage system. The new right-of-way corridor has already been acquired by Lake County. Should right-of-way limit the ability to design an open roadway section, then curb and gutter will be used instead. The project will also include the construction of a bike path within the right-of-way corridor in accordance with the long term plan for the Fort Hill Trail. Right-of-way is expected to be required from three parcels at the northwest corner of Fremont Center Road and IL Route 60. This project is anticipated to be constructed wholly with local funding, and a permit from IDOT will be required for the work in the IL Route 60 right-of-way.

A four acre parcel has also been acquired at the southeast corner of Fremont Center Road and Peterson Road. This parcel is anticipated to be utilized for detention meeting the requirements of LCSMC. The detention will also be designed, if possible, to include adequate volume for the ultimate Peterson Road improvements.

The County desires the implementation of a new traffic signal at the Fremont Center Road with IL Route 60 and therefore, a Traffic Signal Warrant Analysis that conforms to IDOT guidelines will need to be submitted to IDOT's Bureau of Traffic for approval. Traffic signal design work for this project will include plans for a new traffic signal installation at the intersection of IL Route 60/Fremont Center Road. This intersection is under the jurisdiction of the Illinois Department of Transportation (IDOT) and thus the new signal will be designed to meet IDOT standards. The proposed traffic signal may include provisions to include a remote controlled video system at the request of LCDOT and the approval of IDOT. Plans will also be prepared to interconnect the new traffic signal at IL Route 60/Fremont Center Road to the existing traffic signal at the intersection of IL Route 60/Peterson Road.

### II. SCOPE OF SERVICES PHASE I ENGINEERING

This scope has been developed with the understanding that all horizontal and vertical geometric design and drainage studies are included in the Phase II engineering Scope of Services.



Item 1 - Data Collection - This work item will include collecting available existing information as follows:

- a. Collect and review previous studies, roadway plans and traffic data.
- Perform project area reconnaissance and prepare a photolog.
- c. Collect a 14-hour intersection turning movement traffic count at the intersections of IL Route 60 with Fremont Center Road and Peterson Road using a Video Collection Unit (VCU). In order to develop accurate future traffic volumes at the Fremont Center Road intersection, it will be necessary to reassign traffic from the Peterson Road intersection.
- d. Reduce and tabulate traffic count data; prepare traffic volume exhibits.

### Item 2 - Environmental Documentation and Coordination

- a. Prepare Environmental Survey Request forms and submit to IDOT.
- b. It is anticipated that a Preliminary Environmental Site Assessment will be required. Although IDOT will prepare the assessment along IL Route 60, a separate assessment will be required along the local roads. This work will be performed by Cardno Entrix. Civiltech work will be limited to coordination efforts with the subconsultant and IDOT. NOTE: If is determined that further detailed studies are required, the preparation of a PSI will be included in a future supplemental agreement.
- c. Wetlands have been identified within the project corridor and therefore, a wetland delineation report will need to be submitted as part of the Environmental Survey Request process. This work will be performed by Cardno Entrix. However, Civiltech will complete all exhibits associated the wetland delineation report.

#### **Item 3 - Traffic Analysis – Specifically, the traffic analysis will include:**

- a. Perform existing A.M./P.M. capacity analyses at the intersections of IL Route 60 with Fremont Center Road and Peterson Road.
- b. Prepare traffic signal warrant analysis that satisfies IDOT criteria. Submit warrant analysis to IDOT. Respond to comments and revise as necessary.
- c. Obtain 2040 traffic projections from CMAP.
- d. Develop design hourly traffic volumes (DHV's).
- e. Perform A.M. and P.M. 2040 capacity analyses at IL Route 60/Fremont Center Road intersection to determine level of required improvements.
- f. Prepare an Intersection Design Study for the preferred improvement plan.
- g. Compile Intersection Design Study including Autoturn, traffic data and crash data into a packet for review by the IDOT. Respond to IDOT comments and resubmit IDS up to 2 times for approval.

**Item 4 - Crash Analysis –** In support of the traffic signal warrant analysis, it will be necessary to gather and review crash data for the study area to determine the existence of any safety hazards. Therefore, this work item will include:

- a. Collect 3 years of crash data. (To be provided by the County.)
- b. Tabulate data and plot collision diagrams.
- c. Prepare wet/dry crash analysis.



- d. Prepare roadway lighting warrant analysis.
- e. Evaluate safety improvement needs, identify countermeasures, and write crash analysis text.

Item 5 - Agency Coordination - This work task will include the following:

- a. Up to three meetings with LCDOT.
- b. Up to three meetings with IDOT.

All meetings include preparation for, attendance at, and preparation of meeting minutes.

**Item 6 - Stakeholder Coordination** – Although it is assumed that no formal public involvement program will occur as part of this project, there is the potential for meetings with individual property owners. Therefore, it is assumed that 3 meetings will be held with individual property owners/groups of owners. This will include preparation for meeting, attendance at meeting and preparation of meeting minutes.

Item 7 - Supervision, Administration and Project Coordination - This item includes project setup, preparation of status reports, as well as in-house coordination meetings. This item will also include the implementation of Civiltech's Quality Control/Quality Assurance Review Process. As part of this process, all deliverables are reviewed and approved by a Principal-in-Charge or Department Head to ensure that the County is receiving a product of the highest accuracy and quality.

#### III. SCOPE OF SERVICES PHASE II ENGINEERING

### 1. Data Collection and Early Coordination

A. Obtain and Review Record Data – The Phase II Engineers will review the Phase I project information in detail to ensure that the design of the proposed improvements is in accordance with the design work completed to date. Any commitments made during the Phase I preliminary engineering stage of the project will be followed through during Phase II design engineering. We will obtain and review available County data including, but not limited to, subdivision plans and plats, existing/proposed record drawings, drainage permits and reports, geotechnical reports, right-of-way data, aerial photography and contour mapping, other existing plans, and utility atlases.

- **B.** Initial Meeting with County and LCSMC We will hold a joint meeting with LCDOT and LCSMC to discuss the proposed improvements and the anticipated wetland and storm water issues associated with the project and our design approach We will confirm permitting requirements and outline our proposed submittal schedule.
- C. Preliminary Utility Company Coordination We will send letters to the utility companies within the project limits requesting copies of their utility atlases. The information collected will be incorporated into the project base drawing, and used for further coordination as outlined at the pre-final P, S & E stage.
- **D.** Topographic Survey This item includes obtaining full design topographic survey information along the proposed Fremont Road corridor, existing Fremont Road, IL Route 60 and Peterson Road as required to complete the P, S & E. Jorgensen and Associates will complete this task as a subconsultant to Civiltech. A copy of their proposal is included in Attachment A.



- E. Geotechnical Studies We propose to use Midland Standard Engineering & Testing, Inc. as a subconsultant to perform the pavement coring and highway soils survey for this project. This item will include an initial meeting with the County to discuss locations of the proposed pavement cores and borings. We have included manhours for coordination between Civiltech and Midland and to attend the meeting with the County. A copy of Midland's proposal is included in Attachment B.
- F. Drain Tile Survey A drain tile survey will be completed in accordance with the requirements set forth by LCSMC. Drain tiles are known to be present based on the County's experience completing the Peterson Road re-alignment project. This work will be completed by Cardno Entrix as a subconsultant to Civiltech. A copy of their proposal is included in Attachment C.
- G. Field Review of Survey This item includes a review of the topographic survey and performing a "plan-in-hand" field check of the project site to verify the completeness and accuracy of the survey. We will also photo document the site and prepare a detailed inventory of existing signage and any other topographic features which may impact or be impacted by the proposed design. At this time we will also establish as accurately as possible, the locations of existing private utilities in the field using a combination of the atlases obtained during our Preliminary Utility Company Coordination and visual observation in the field.
- H. IDOT Project Kick-off Meeting Once we have had the initial meeting with the County and a project schedule has been set, we will conduct a joint meeting with the Illinois Department of Transportation to discuss the project, further define IDOT's processing requirements as a permit project, and gain everyone's acceptance of the project schedule and commitment to timely reviews.

### 2. Preliminary Engineering

- A. Plan Base Sheet Preparation We will plot existing topographic aerial/survey information and develop plan base sheets at a scale of 1" = 20' and 1"=50' for use in the development of contract plans. Any updated existing utility information that has been obtained during the data collection phase and survey phase will also be plotted on the base sheets.
- B. Review and Confirm Project Right-of-Way Requirements We will review the proposed roadway alignment and horizontal and vertical geometrics with respect to the existing right-of-way. Additionally, the preliminary cross sections and drainage requirements will be analyzed in detail by the Phase II design team in order to confirm the proposed right-of-way required. This work will be performed early in the design phase so that the right-of-way acquisition process can begin as soon as possible to ensure that the project remains on schedule.
- C. Pavement Design We will complete a pavement design for Fremont Center Road and IL Route 60. This work will be in accordance with the geotechnical report, County requirements, and the IDOT BDE Manual.
- D. Alternative Geometric Studies We will develop preliminary geometrics along the proposed corridor and IL Route 60 based on the Intersection Design Study and Lake County design requirements. Our initial goal will be to design the Fremont Road Extension with shoulders and an open drainage system. Cross sections will be developed and reviewed to determine the feasibility of an open section with a bike path on one side within the available right-of-way. A closed section with curb & gutter will also be developed should the open section become problematic.



**D. Drainage Design** – All drainage calculations will be completed in accordance with the Lake County Stormwater Management Commission's requirements. We will complete the design of roadway ditches, culvert crossings, storm sewer, inlet spacing and detention. No floodplain impacts are anticipated.

IDOT will likely require submittal of an Existing Drainage Plan and a Proposed Drainage Plan for IL Route 60, however a full Location Drainage Study is not anticipated. We have included manhours to prepare these exhibits and attend 2 meetings with IDOT.

We will conduct a joint meeting with LCSMC and LCDOT to discuss the project and further define the permit requirements once the preliminary drainage design has been completed.

E. Maintenance of Traffic Concept – We envision the construction staging and maintenance of traffic as a critical component to be addressed and resolved as part of the preliminary engineering. Construction staging, maintenance of traffic concepts and detour routes will be agreed to prior to the pre-final plan development. We will prepare a maintenance of traffic and construction staging concept design and memorandum for review and approval by the County.

F. Preliminary Plans (65%) – We will prepare preliminary plans containing the following drawings:

Cover Sheet and Index of Sheets (1 sheet)

General Notes (2 sheets)

Existing Typical Sections (2 sheets)

Proposed Typical Sections (3 sheets)

Maintenance of Traffic Concept Plans (1"=50") – 2 stages (9 sheets)

Erosion Control and Landscaping (1"=50") - 2 stages (8 sheets)

Roadway Plan and Profile (1"=20') (11 sheets)

Drainage and Utilities (1"=20") (11 sheets)

Stormwater Management Basin Plans (1"=50') (2 sheets)

Intersection Details (1"=20') (2 sheets)

Superelevation Tables (2 sheets)

Pavement Marking and Signing Plan (1"=50") (4 sheets)

Cross Sections (1"=10'H: 1"=5'V) (30 sheets)

Traffic Signal and Interconnect Plans (11 sheets)

Project Specific Construction Details (2 sheets)

LCDOT and IDOT Standard Construction Details (20 sheets)

The Preliminary Plan preparation and submittal will serve as a progress submittal for review by the County staff, in an effort to identify and address any significant design issues prior to completing pre-final plans. We will communicate with the County throughout the design process to resolve any current design issues. In order to initiate the IDOT permit reviews, we will also submit the Preliminary Plans to IDOT.

In an effort to alert the various utility companies of possible conflicts and to advise them of the overall project schedule, we will submit a utility plan set for their review. It is our intention that this submittal will allow the utility companies to review the plans to determine where additional information is needed concerning the location of their facilities. Utility plan submittals will be coordinated with Lake County's Utility Coordinator for their records.



- **G.** Preliminary Design Review Meeting We will coordinate a meeting in order to discuss the status of the project with the County. The meeting will be scheduled such that all parties will have had an opportunity to review the preliminary plans and provide comments.
- H. Preliminary Soils Design Review Meeting We will coordinate a meeting to discuss the project's soil report and strategies with the County. We will be prepared to discuss subsurface soils conditions, geotechnical conclusions, recommendations for the foundation methods, pavement design, and the presence of unsuitable soils and their remediation.
- **I. Aesthetic Features Coordination Meeting and Conceptual Design** We will coordinate a meeting to discuss the proposed aesthetic features for the proposed corridor and detention parcel with the County.

### 3. Right-of-Way Documents and Coordination

There are three parcels with potential right-of-way takes and temporary easements within the project limits. Appraisals, review appraisals, and negotiations will be required for all parcels.

A. Subconsultant Coordination – The preparation of the Plat of Highways and Legal Descriptions will be performed by Jorgensen & Associates, Inc. in accordance with the IDOT Plats of Highway Checklist (a copy of their proposal is included in Attachment A). We will provide Jorgensen & Associates electronic copies of the proposed alignment and right-of-way for use in preparing the Plat of Highways and tying down the centerline alignment. Civiltech will provide the necessary valuation services. We propose to use T Engineering Services Ltd. for review appraisals, and to use Santacruz Associates Ltd. as the negotiator for the land acquisition (a copy of their proposal is included in Attachment D). All such services shall be performed in accordance with the policies of the County, and where applicable, the Illinois Department of Transportation Land Acquisition Policies and Procedures Manual and the Federal Uniform Relocation Assistance and Real Property Acquisition Policies Act.

This item includes work involved with coordination between the Phase II design team and the appraisers and negotiators. This work typically includes providing the appraisers and negotiators with exhibits for use during meetings with the property owner, and providing information regarding the design and potential modifications to the same.

**B.** Right-of-Way Coordination Meeting – We will arrange and attend two meetings with the County to discuss the proposed right-of-way acquisition.

### 4. Pre-Final (90%) Plans, Special Provisions and Estimates

A. Pre-Final Plans – The development of Pre-Final Contract Plans and documents will proceed throughout the County's review of the Preliminary Plan Submittal. We will prepare pre-final contract plans based on comments received on the preliminary plans and in accordance with the approved Phase I Report, the applicable sections of the BDE manual, applicable IDOT Standards and in accordance with current County standards and practices. We anticipate that the contract plans will contain the following drawings:

Cover Sheet and Index of Sheets (1 sheet) General Notes (2 sheets) Summary of Quantities (3 sheets)



Schedule of Quantities (16 sheets)

Typical Sections - Existing (2 sheets)

Typical Sections - Proposed (3 sheets)

Alignment and Ties (2 sheets)

Erosion Control and Landscaping (1"=50") - 2 stages (8 sheets)

Stages of Construction - 2 stages w/ seq. and sections (1"=50") (9 sheets)

Plan and Profile (1"=20') (11 sheets)

Drainage and Utilities (1"=20') (11 sheets)

Stormwater Management Basin Plans (1"=50") (2 sheets)

Intersection Details (1"=20') (2 sheets)

Superelevation Tables (2 sheets)

Pavement Marking and Signing Plan (1"=50") (4 sheets)

Cross Sections (1"=10'H: 1"=5'V) (30 sheets)

Traffic Signal and Interconnect Plans (11 sheets)

Project Specific Construction Details (2 sheets)

LCDOT and IDOT Standard Construction Details (30 sheets)

We estimate that the contract plans will contain a total of 151 sheets.

The cross sections will be prepared at 50-foot intervals and will include full sections at intersections of streets, high and low points along the roadway profile, beginning of project, and end of project limits. Half width cross sections will be prepared at driveways and access points. This work will be in accordance with Lake County Division of Transportation Plan Preparation Guidelines.

The pre-final contract documents will be submitted to the County and IDOT. We will also submit the contract plans to the various utility companies. This submittal will sufficiently define the conflicts so that the utility companies can, at a minimum, perform the necessary engineering for any required utility relocations. This allows relocations to be performed in advance of the actual construction. Civiltech will perform the necessary coordination with the utility companies and follow up as needed on each of our submittals. This will attempt to ensure that no utility company is ignoring the project. Depending on the complexity of the utility involvement it may be necessary to conduct periodic coordination meetings. Utility plan submittals will be coordinated with Lake County's Utility Coordinator.

B. Pre-Final Special Provisions – We will prepare special provisions that supplement or amend the special provisions contained in the latest edition of the Standard Specifications for Road and Bridge Construction adopted by the Illinois Department of Transportation and the latest edition of the Standard Specifications for Sewer and Watermain Construction in Illinois. Applicable County special provisions will be utilized to supplement the Standard Specifications. In addition, we will include the latest IDOT Recurring Special Provisions Check Sheet. The most recent set of IDOT's Bureau of Design and Environment Special Provisions and District 1 Special Provisions will be reviewed and included in the special provisions where applicable.

C. Pre-Final Quantity Calculations – We will perform detailed quantity calculations at the pre-final stage of the plan development. Two sets of calculations will be performed by separate engineers in order to ensure the accuracy of the calculations.



- **D. Pre-Final Estimate of Cost and Construction Time** We will use the quantities of work in order to calculate an Engineer's Estimate of Cost and Time. Estimates will be based on recent bid tab information for projects of similar scope and magnitude.
- E. Pre-Final QA/QC Review Prior to submission of the pre-final plans for review, we will perform an internal Quality Assurance / Quality Control review of the work completed. The review will be performed by a professional engineer independent of the design team. The review will consider constructability issues as well as identification of missing pay items, quantities of work, and special provisions required. The design team will also perform a "plan-in-hand" field check to confirm the existing conditions and design.
- F. Pre-Final Project Review Meeting with LCDOT A project review meeting will be held with the County to address design issues and plan comments generated from the pre-final contract document review.
- **G.** Pre-Final Project Review Meeting with IDOT A project review meeting will be held with the County and IDOT to address design issues and plan comments generated from the pre-final contract document review.

### 5. Final (100%) Plans, Special Provisions and Estimates

A. Final Plans – After completion of all agency reviews and resolution of any other agency or utility company concerns, the contract plans will be finalized. In order to assist the Resident Engineer (RE) we will furnish the County, as part of our deliverables, detailed information including all design, quantity calculations, and microstation files in LCDOT format. We will also prepare a technical memorandum to the RE highlighting any key issues, commitments, or special concerns that arose during the design stage of the project.

LCDOT will be responsible for letting the project. Therefore, we will provide LCDOT with pdf's of the plans and bid documents per the LCDOT Bid Package Format Submittal guidelines dated 9/24/09, as well as the number of full and reduced size copies that they request. We will also submit the contract plans to the various utility companies and to IDOT for final permit issuance.

- **B. Final Special Provisions** All comments received pertaining to the pre-final special provisions and bid documents will be addressed and a disposition will be included in the final bid documents. The status and schedule of all utility relocations, as of the date of the final plans, will be included in the bid documents.
- **C. Final Quantity Calculations** The quantities will be updated based on changes made to the plans after the prefinal stage.
- **D. Final Estimate of Cost and Construction Time** The estimates will be updated based on the revised quantities. Cost breakdowns for different funding sources will be provided to the County to assist in the completion of any joint agreements for construction.
- E. Final QA/QC Review Prior to the final submittal, a second QA/QC review of the plans and special provisions will be performed.

### 6. Project Administration, Coordination and Permits

A. Project Administration – This item includes project setup, monthly invoicing, preparation of status reports, and internal project team coordination meetings.



**B.** Project Submittals – As noted above, we will make the necessary document submittals, and follow through with each agency in regards to their review comments or arrange a review meeting to discuss plan changes necessary to resolve conflicts if possible.

C. Utility Company Coordination – As noted above, we will analyze the project for potential impacts to existing utilities. We will provide the utility companies with a list of areas of potential conflict so that additional information, such as horizontal locates or depth borings can be obtained where necessary to further define the extent of conflicts. We will first attempt to address utility conflicts through design modifications while considering the impact those changes will have on the overall improvement. It is anticipated that utility relocation work will be necessary to construct the proposed roadway improvements.

Based on the amount and complexity of the required utility relocation, it may be necessary to have periodic coordination meetings with the utility companies. We have included hours to meet four times with the utility companies. In addition, we will review the permit submittals from the utility companies to ensure that all of the conflicts have been resolved and that the plans are compatible with the proposed construction.

D. Lake County Stormwater Permitting and Documentation – This project will require a permit submittal to Lake County Stormwater Management Commission in compliance with the Countywide Stormwater and Floodplain Ordinance. We will prepare and submit the permit application along with the required back-up documentation.

If wetland impacts are unavoidable, mitigation will be required through the purchase of wetland credits. The scope of this work does not include the funding for the actual purchase within the selected wetland bank. The wetland portion of the permitting process will be performed by Cardno ENTRIX (a copy of their proposal is included in Attachment C).

- E. NPDES Permitting and Documentation The NPDES permit, along with a Stormwater Pollution Prevention Plan, will also be prepared for inclusion in the contract documents for final execution by the successful bidder. All erosion control design will be in accordance with the latest IEPA, IDOT, and County requirements.
- **F. Bidding Assistance** We will review any questions received from contractors during the bidding process and provide any necessary responses to clarify the documents.
- **G. Pre-Construction Meeting Attendance** We will attend the pre-construction meeting at LCDOT to answer any questions regarding the design and contract documents. We will also provide responses to any questions from contractors during the bidding process, if necessary.
- H. Post-Approval Alignment Staking Upon approval of the roadway plans and alignment, we propose to have the proposed alignment staked with PK nails or iron pipes at the 100-foot stations, station equations and alignment control points, in accordance with the Lake County Division of Transportation Surveying Procedures. This work is to be performed by Jorgensen and Assoicates, Inc. as a subconsultant to Civiltech. The manhours included are for coordination between Civiltech and Jorgensen.

### IV. FEE CALCULATION

In order to calculate our "not-to-exceed" fee for our projects, we estimate the number of manhours to complete the items outlined in the Scope of Services section of this proposal. These hours are used in conjunction with hourly



rates of the personnel completing the tasks and our IDOT approved multiplier based on CPFF Method 1 (BLR 05610) to include overhead and profit. All sub-consultant expenses and direct costs are billed at cost without markup. Please reference the separate Phase I and Phase II engineering fee calculations included herewith for further details on the development of the following "not-to-exceed" fees for the Phase I and Phase II Professional Engineering Services fees:

Phase I Engineering: \$121,892
Phase II Engineering: \$484,868
Total: \$606,760



# Phase I Engineering Cost Estimate of Consultant Services

	Personnel & Hours						% of	
	Sr. Project Manager \$63.00	Project Manager \$44.00	Project Engineer \$36.00	Design Engineer \$29.00	Design Technician \$28.50	Total Hours	Hours	Labor Cost
1 Data Collection								
	4	10	16	8	16	54	8.1%	\$1,956.00
2 Environmental Documentation & Coodination								
	4	16	8	16	84	128	19.3%	\$4,102.00
3 Traffic Analysis	, ,		. 1					
	24	56	120	4	64	268	40.4%	\$10,236.00
4 Crash Analysis								
	4	6	22	0	4	36	5.4%	\$1,422.00
5 Agency Coordination								
	36	36	0	0	12	84	12.7%	\$4,194.00
6 Stakeholder Coordination	1	1	- 1					
	18	18	0	0	6	42	6.3%	\$2,097.00
7 Supervision, Administration & Project Coordination							_	
	32	8	4	4	4	52	7.8%	\$2,742.00
Total Cost								\$26,749
Multiplier*	2.91							\$77,840
Direct Costs and Sub Consultant Expense (See attached calculate	ion)			-				\$44,052
				Total I	Engineering Cost:	664		\$121,892

\*Multiplier 1(Direct Labor)+OH + 0.145\*(1+OH) IDOT Approved OH Rate = 154.35%



ainear	ing Work Hours		Personnel & Hours				% of	
gilleei	ing work riours	Sr. Project	Project	Project	Design	Design	Total Hours	
		Manager	Manager	Engineer	Engineer	Technician		Hour
Task No.	Task							
1	Data Collection							
	Collect & review previous studies.		4	8			12	22.2
	Conduct field visit and prepare photolog.	4	4	4			12	22.2
	Conduct intersection turning movement counts.				4	16	20	37.0
D.	Reduce and tabulate traffic data.		2	4	4		10	18.5
	Sub-total Ite	m 1 4	10	16	8	16	54	100.0
2	Environmental Documentation & Coodination							
	Prepare Environmental Survey Request form.	4	8	8	16	24	60	46.9
	Environmental Exhibits	4	8	0	10	60	68	53.1
В.	Sub-total Ite	m 2 4	16	8	16	84	128	100.
	Sub-total ite	m 2 4	10		10	04	120	100.
3	Traffic Analysis							
Α.	Perform existing capacity analyses		4	4			8	3.0
	Prepare traffic signal warrant and submit to IDOT.	8	8	16		4	36	13.4
	Obtain 2040 traffic projects from CMAP.		2		4		6	2.2
	Develop design hourly volumes.		4	4			8	3.0
	Perform 2040 capacity analyses.		2	4			6	2.2
	Prepare Intersection Design Study	8	16	40		40	104	38.8
	Compile IDS and other data into packet and submit to IDOT		4	4		4	12	4.5
	Revise IDS up to 2 times based on IDOT comments.	8	16	48		16	88	32.
	Subtotal Ite		56	120	4	64	268	100
	oubtotal ito	0		.20	-	04	200	
4	Crash Analysis							
A.	Obtain crash data.			2			2	5.6
B.	Tabulate data and plot collision diagrams.		2	8		4	14	38.9
C.	Prepare wet/dry crash analysis.			2			2	5.6
D.	Prepare roadway lighting warrant analysis.			2			2	5.6
	Evaluate safety improvement needs.	4	4	8			16	44.4
	Sub-total Ite	m 4 4	6	22	0	4	36	100.
						1	I	
	Agency Coordination	40	40				40	50.0
	Attend up to 3 meetings with LCDOT.	18	18			6	42	
В.	Attend up to 3 meetings with IDOT.	18	18 <b>36</b>	_	_	6 <b>12</b>	42	50.0
	Sub-total Ite	m 5 36	36	0	0	12	84	100.
6	Stakeholder Coordination							
A	Attend up to 3 meetings with property owners.	18	18			6	42	100
7 1.	Sub-total Ite		18	0	0	6	42	100
		•	•	•	•	•	•	
7	Supervision, Administration & Project Coordination							
	Project coordination.		8	4	4	4	20	38.
B.	QC/QA	32					32	61.
	Sub-total Ite	m 7 32	8	4	4	4	52	100.
	T-4-111-	400	450	170	20	400	664	
	Total Ho		150 22.6%	170	32	190	664	
	% of Ho	urs: 18.4%	22.6%	25.6%	4.8%	28.6%	100.0%	



# **Phase I Direct Costs**

ITEM 1 - Data Collection		
Mileage		
3 trips @ 60 miles @ \$0.555/mile		\$99.90
MioVision Data Reduction		
14 hours of data at 2 intersections		\$850.00
	Total Item 1	\$949.90
ITEM 2 - Environmental Documentation		
Postage		
1 overnight shipping items X \$25/each		\$25.00
Subconsultant		
Cardno Entrix - Wetland Delineation Report		\$14,946.00
Cardno Entrix - Preliminary USACE and LCSMC Permitting		\$4,658.00
Cardno Entrix - Preliminary Environnemental Site Assessment (Pt	ESA)	\$9,700.00
Cardno Entrix - Drain Tile Survey report		\$13,260.00
	Total Item 2	\$42,589.00
ITEM 3 - Traffic Analysis		
Printing		
4 submittals @ 20 sheets @ \$0.50		\$ 40.00
4 submittals @ 100 sheets @ \$0.10		\$ 40.00
8 overnight shipping items X \$25/each		\$200.00
	Total Item 3	\$280.00
ITEM 5 - Agency Coordination		
Mileage		
3 trips @ 60 miles @ \$0.555/mile		\$99.90
3 trips @ 20 miles @ \$0.555/mile		\$33.30
	Total Item 5	\$133.20
ITEM 6 - Stakeholder Coordination		
Mileage		
3 trips @ 60 miles @ \$0.555/mile		\$99.90
	Total Item 6	\$99.90
TOTAL DIRECT COSTS & SUBCON	NSULTANTS	\$44,052.00



# **Phase II Engineering Cost Estimate of Consultant Services**

			Pers	onnel & Hour	s					
	Director of Design Services	Project Manager	Project Engineer	Design Engineer	Signals Engineer	Design Technician	QC/QA Engineer	Total Hours	% of Hours	Labor Cost
	\$63.00	\$45.25	\$35.50	\$28.50	\$34.50	\$28.50	\$63.00			
1 Data Collection and Early Coordination										
	8	25	33	14	2	0	0	82	2.1%	\$3,274.75
2 Preliminary (65%) Engineering										
	61	199	476	622	72	398	0	1828	47.4%	\$61,299.75
3 Right-of-Way Documents and Coordination									. 1	
	10	16	20	6	0	6	0	58	1.5%	\$2,406.00
4 Pre-Final (90%) Plans, Special Provisions and Estimates								1001	22.22/	A
	40	162	392	388	76	231	12	1301	33.8%	\$44,786.00
5 Final (100%) Plans, Special Provisions and Estimates										
5 Final (100%) Flans, Special Flovisions and Estimates	10	38	100	80	14	24	6	272	7.1%	\$9,724.50
	10	30	100	60]	14	24	O O	212	7.170	φ9,724.50
6 Project Administration, Coordination and Permits										
o i rojost Auminoration, o corumation and r crimto	19	99	106	68	0	20	0	312	8.1%	\$11,947.75
	101	55	100	331		20	<u> </u>	012	3.170	Ţ, <del>5</del> 17.76
Total Cost										\$133,439
										. ,
Multiplier*	2.91									\$388,307
Direct Costs and Sub Consultant Expense (See attached calculate	tion)									\$96,561
						Total E	ngineering Co	st: 3853	100.0%	\$484,868
							Jg			,

\*Multiplier 1(Direct Labor)+OH + 0.145\*(1+OH) IDOT Approved OH Rate = 154.35%



# Phase II Engineering Work Hours - Page 1 of 2

					Personnel	& Hours				
		Director of Design Services	Project Manager	Project Engineer	Design Engineer	Signals Engineer	Design Technician	QC/QA Engineer	Total Hours	% of Hours
Task No.	Task									
	ata Collection and Early Coordination				_					
	Obtain/Update and Review Record Data	2	3	3	3	2			13	15.9%
	nitial Meeting with County and LCSMC	3	3	4					10	12.2%
	reliminary Utility Company Coordination		1	1	2				4	4.9%
	opographic Survey		2	4					6	7.3%
	Seotechnical Studies		2	4					6	7.3%
	rain Tile Study		2	4					6	7.3%
	ield Review of Survey		9	9	9				27	32.9%
H. II	OOT Project Kick-off Meeting	3	3	4					10	12.2%
	Sub-total Item 1	8	25	33	14	2	0	0	82	100.0%
2 P	reliminary (65%) Engineering									
	lan Base Sheet Preparation		2	8	24		32		66	3.6%
	Review and Confirm Project Right-of-Way Requirements	2	8	8	12		- 02		30	1.6%
	avement Design		2	5	5				12	0.7%
	Iternate Geometric Studies	8	20	32	48		16		124	6.8%
	Prainage Design	16	48	112	120		32		328	17.9%
	Maintenance of Traffic Concept	2	4	12	16		8		42	2.3%
	reliminary Plans			12	10				72	2.570
<u>٠</u>	Cover Sheet and Index of Sheets (1 sheet)			1	1		4		6	0.3%
<u> </u>	General Notes (2 sheets)		2	4	4		4		14	0.8%
-	Typical Sections - Existing (2 sheets)		2	4	12		8		26	1.4%
-	Typical Sections - Existing (2 sheets)		6	8	12		10		36	2.0%
-	Erosion Control and Landscaping - 2 stages (8 sheets)	2	8	24	30		16		80	4.4%
-	Maintenance of Traffic Concept Plans - 2 stages w/ seg. and sections (9 sheets)	2	4	16	24		12		58	3.2%
-	Plan and Profile (11 sheets)	8	24	62	72		36		202	11.1%
-	Drainage and Utilities (11 sheets)	8	24	56	70		36		194	10.6%
-	Stormwater Management Basin Plans (2 sheets)	0	4	16	28		24		72	3.9%
-	Intersection Details (2 sheets)		4	12	16		12		44	2.4%
-	Superelevation Tables (2 sheets)		8	12	24		12		56	3.1%
-	Pavement Marking and Signing Plan (4 sheets)		6	20	36		16		78	4.3%
-	Cross Sections (30 sheets)	4	8	40	48		32		132	7.2%
-	Traffic Signal and Interconnect Plans (11 sheets)	4	0	40	46	72	32		72	3.9%
-	Project Specific Construction Details (2 sheets)			8	20	12	16		48	2.6%
-	LCDOT and IDOT Standard Construction Details (2 sneets)		2	4	20		56		62	3.4%
	reliminary Design Review Meeting	_					30		10	0.5%
		3	3	4						
	reliminary Soils Design Review Meeting	3	3	4			40		10	0.5%
J. A	esthetic Features Coordination Meeting and Conceptual Design	3	3	4	222		16		26	1.4%
	Sub-total Item 2	61	199	476	622	72	398	0	1828	100.0%
3 R	light-of-Way Documents and Coordination									
	ubconsultant Coordination	4	10	12	6		6		38	65.5%
	tight-of-Way Coordination Meeting	6	6	8					20	34.5%
	Sub-total Item 3	10	16	20	6	0	6	0	58	100.0%



# Phase II Engineering Work Hours - Page 2 of 2

					Personnel	& Hours				
		Director of Design Services	Project Manager	Project Engineer	Design Engineer	Signals Engineer	Design Technician	QC/QA Engineer	Total Hours	% of Hours
Task No.	Task	CCIVICCO								
	ans, Special Provisions and Estimates									
A. Pre-Final Plans										0.00/
	and Index of Sheets (1 sheet)			1	1				2	0.2%
General Notes				1	1		1		3	0.2%
	Quantities (3 sheets)		2	6	6		4		18	1.4%
	Quantities (16 sheets)		4	32	40		16		92	7.1%
	ns - Existing (2 sheets)		<del></del>	2	4 8		2		9 17	0.7% 1.3%
	ns - Proposed (3 sheets)		1				4			
	Ties (2 sheets)	2	8	2 12	4 16		8 12		16 50	1.2%
	ol and Landscaping - 2 stages (8 sheets) instruction - 2 stages w/ seg. and sections (9 sheets)	2	20	40	56		32		150	3.8% 11.5%
					42		24			10.9%
Plan and Profi		4	24 24	48 48	42		24		142 142	10.9%
	Utilities (11 sheets) anagement Basin Plans (2 sheets)	2	6	12	24		12		56	4.3%
	etails (2 sheets)		4	8	12		12		36	2.8%
	n Tables (2 sheets)		8	12	16		6		42	3.2%
	rking and Signing Plan (4 sheets)	-	6	16	16		12		50	3.8%
Cross Section:		4	8	36	40		24		112	8.6%
	and Interconnect Plans (11 sheets)	4	0	30	40	72	24		72	5.5%
	ic Construction Details (2 sheets)	-	2	8	12	12	8		30	2.3%
	DOT Standard Construction Details (30 sheets)		2	4	12		30		36	2.8%
B. Pre-Final Special Pr		4	24	36		4	30		68	5.2%
C. Pre-Final Quantity C		-	8	48	48	7			104	8.0%
	of Cost and Construction Time	<del> </del>	2	8	40				10	0.8%
E. Pre-Final QA/QC Re		12		0				12	24	1.8%
	eview Meeting with LCDOT	3	3	4				12	10	0.8%
	eview Meeting with IDOT	3	3	4					10	0.8%
C. I Te I mai i Toject Ne	Subtotal Item 4		162	392	388	76	231	12	1301	100.0%
5 Final (100%) Plans	, Special Provisions and Estimates									
A. Final Plans		4	24	56	56	12	24		176	64.7%
B. Final Special Provisi	ions		8	16		2			26	9.6%
<ul> <li>C. Final Quantity Calcu</li> </ul>	ulations		4	24	24				52	19.1%
D. Final Estimate of Co	ost and Construction Time		2	4					6	2.2%
E. Final QA/QC Review	N	6						6	12	4.4%
•	Sub-total Item 5	10	38	100	80	14	24	6	272	100.0%
	tion, Coordination and Permits									
A. Project Administration	on	12	30						42	13.5%
B. Project Submittals			4	12	12		8		36	11.5%
C. Utility Company Cod			24	32	16				72	23.1%
	water Permitting and Documentation	4	24	40	32		12		112	35.9%
E. NPDES Permitting a		L	4	12	8				24	7.7%
F. Bidding Assistance		<u> </u>	8	8					16	5.1%
G. Pre-Construction Me		3	3					1	6	1.9%
H. Post Approval Aligni		L	2	2					4	1.3%
	Sub-total Item 6	19	99	106	68	0	20	0	312	100.0%
	Total Hours:	148	539	1127	1178	164	679	18	3853	
	% of Hours:		14.0%	29.2%	30.6%	4.3%	17.6%	0.5%	100.0%	
	% of Hours:	3.5%	14.0%	29.2%	30.0%	4.5%	17.0%	0.5%	100.0%	

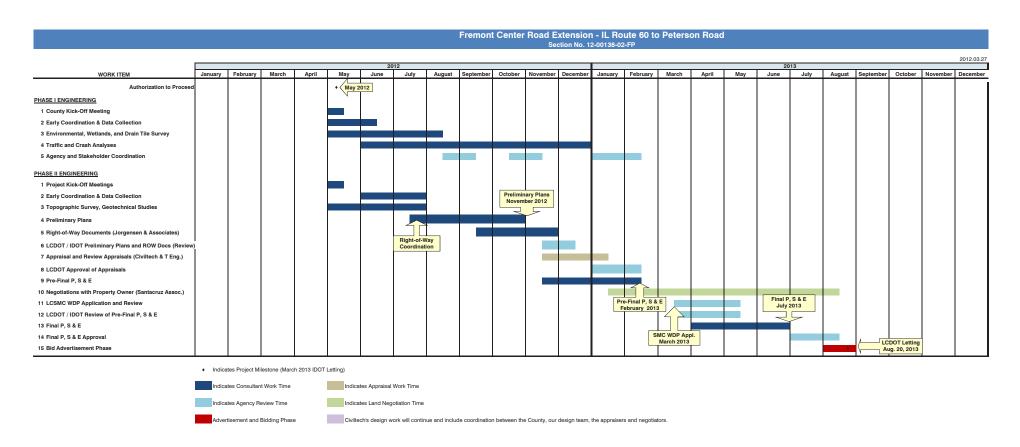


# **Phase II Direct Costs**

ITEM 1 - Printing			
Preliminary Plans			
LCDOT 1 set X 130 sheets/set X \$0.60/sheet (Full size)			\$78.00
LCDOT 3 sets X 130 sheets/set X \$0.15/sheet (Half size)			\$58.50
IDOT 15 sets X 130 sheets/set X \$0.60/sheet (Full size)			\$1,170.00
Pre-Final Plans			. ,
LCDOT 1 set X 151 sheets/set X \$0.60/sheet (Full size)			\$90.60
LCDOT 3 sets X 151 sheets/set X \$0.15/sheet (Half size)			\$67.95
IDOT 15 sets X 151 sheets/set X \$0.60/sheet (Full size)			\$1,359.00
Utility Co's 12 sets X 151 sheets/set X \$0.60/sheet (Full size)			\$1,087.20
Pre-Final Specification Books			+ -,
LCDOT 3 books X \$25/book			\$75.00
IDOT 15 books X \$25/book			\$375.00
Final Plans			φο, σ.σσ
LCDOT 1 set X 151 sheets/set X \$0.60/sheet (Full size)			\$90.60
LCDOT 3 sets X 151 sheets/set X \$0.15/sheet (Half size)			\$67.95
IDOT 15 sets X 151 sheets/set X \$0.60/sheet (Full size)			\$1,359.00
Utility Co's 12 sets X 151 sheets/set X \$0.60/sheet (Full size)			\$1,087.20
Final Specification Books			φ1,007.20
LCDOT 1 book X \$25/book			\$25.00
IDOT 15 books X \$25/book			\$375.00
1DOT 15 DOOKS A \$25/DOOK	Total Item 1		
ITEM 2 - Shipping	Total Item 1		\$7,366.00
25 overnight shipping items X \$25/each			
25 overnight shipping items X \$25/each	Total Item 2		\$625.00
ITEM 3 - Vehicle Expense	Total Itelli 2		\$025.00
Mileage			
willeage	Total Item 3		<b>\$500.00</b>
ITEM 4 - Topographic Survey			\$500.00
ITEM 4 - Topographic Survey			\$500.00
Jorgensen and Associates			
Jorgensen and Associates	Total Item 4		\$20,502.72
Jorgensen and Associates  ITEM 5 - Geotechnical Investigation			
Jorgensen and Associates	Total Item 4		\$20,502.72
Jorgensen and Associates  ITEM 5 - Geotechnical Investigation  Midland Standard Testing & Engineering			
Jorgensen and Associates  ITEM 5 - Geotechnical Investigation  Midland Standard Testing & Engineering  ITEM 6 - Wetland Permitting	Total Item 4		\$20,502.72
Jorgensen and Associates  ITEM 5 - Geotechnical Investigation  Midland Standard Testing & Engineering  ITEM 6 - Wetland Permitting  Cardno ENTRIX	Total Item 4		\$20,502.72 \$14,407.00
Jorgensen and Associates  ITEM 5 - Geotechnical Investigation  Midland Standard Testing & Engineering  ITEM 6 - Wetland Permitting  Cardno ENTRIX  USACE and LCSMC Permit Submittal	Total Item 4		\$20,502.72 \$14,407.00 \$6,662.00
Jorgensen and Associates  ITEM 5 - Geotechnical Investigation  Midland Standard Testing & Engineering  ITEM 6 - Wetland Permitting  Cardno ENTRIX	Total Item 4  Total Item 5		\$20,502.72 \$14,407.00 \$6,662.00 \$3,048.00
Jorgensen and Associates  ITEM 5 - Geotechnical Investigation  Midland Standard Testing & Engineering  ITEM 6 - Wetland Permitting  Cardno ENTRIX  USACE and LCSMC Permit Submittal  USACE and LCSMC Permit Submittal Re-Submittal	Total Item 4		\$20,502.72 \$14,407.00 \$6,662.00
ITEM 5 - Geotechnical Investigation Midland Standard Testing & Engineering  ITEM 6 - Wetland Permitting  Cardno ENTRIX  USACE and LCSMC Permit Submittal  USACE and LCSMC Permit Submittal Re-Submittal	Total Item 4  Total Item 5		\$20,502.72 \$14,407.00 \$6,662.00 \$3,048.00
ITEM 5 - Geotechnical Investigation Midland Standard Testing & Engineering  ITEM 6 - Wetland Permitting Cardno ENTRIX USACE and LCSMC Permit Submittal USACE and LCSMC Permit Submittal Re-Submittal ITEM 7 - Right-of-Way Negotiations and Appraisals ROW Documents (Jorgensen Associates)	Total Item 4  Total Item 5	<b>.</b>	\$20,502.72 \$14,407.00 \$6,662.00 \$3,048.00 \$9,710.00
ITEM 5 - Geotechnical Investigation Midland Standard Testing & Engineering  ITEM 6 - Wetland Permitting  Cardno ENTRIX  USACE and LCSMC Permit Submittal  USACE and LCSMC Permit Submittal Re-Submittal	Total Item 4  Total Item 5	\$	\$20,502.72 \$14,407.00 \$6,662.00 \$3,048.00
ITEM 5 - Geotechnical Investigation Midland Standard Testing & Engineering  ITEM 6 - Wetland Permitting Cardno ENTRIX USACE and LCSMC Permit Submittal USACE and LCSMC Permit Submittal Re-Submittal ITEM 7 - Right-of-Way Negotiations and Appraisals ROW Documents (Jorgensen Associates) 3 Fee Simple and Temporary Easements	Total Item 4  Total Item 5	\$	\$20,502.72 \$14,407.00 \$6,662.00 \$3,048.00 \$9,710.00
ITEM 5 - Geotechnical Investigation Midland Standard Testing & Engineering  ITEM 6 - Wetland Permitting Cardno ENTRIX USACE and LCSMC Permit Submittal USACE and LCSMC Permit Submittal Re-Submittal ITEM 7 - Right-of-Way Negotiations and Appraisals ROW Documents (Jorgensen Associates) 3 Fee Simple and Temporary Easements  Appraisals(Civiltech)	Total Item 4  Total Item 5		\$20,502.72 \$14,407.00 \$6,662.00 \$3,048.00 \$9,710.00
ITEM 5 - Geotechnical Investigation Midland Standard Testing & Engineering  ITEM 6 - Wetland Permitting Cardno ENTRIX USACE and LCSMC Permit Submittal USACE and LCSMC Permit Submittal Re-Submittal ITEM 7 - Right-of-Way Negotiations and Appraisals ROW Documents (Jorgensen Associates) 3 Fee Simple and Temporary Easements	Total Item 4  Total Item 5	\$	\$20,502.72 \$14,407.00 \$6,662.00 \$3,048.00 \$9,710.00
ITEM 5 - Geotechnical Investigation Midland Standard Testing & Engineering  ITEM 6 - Wetland Permitting Cardno ENTRIX USACE and LCSMC Permit Submittal USACE and LCSMC Permit Submittal Re-Submittal ITEM 7 - Right-of-Way Negotiations and Appraisals ROW Documents (Jorgensen Associates) 3 Fee Simple and Temporary Easements  Appraisals(Civiltech) 3 parcels X \$2,000/parcel	Total Item 4  Total Item 5		\$20,502.72 \$14,407.00 \$6,662.00 \$3,048.00 \$9,710.00
ITEM 5 - Geotechnical Investigation Midland Standard Testing & Engineering  ITEM 6 - Wetland Permitting Cardno ENTRIX USACE and LCSMC Permit Submittal USACE and LCSMC Permit Submittal Re-Submittal ITEM 7 - Right-of-Way Negotiations and Appraisals ROW Documents (Jorgensen Associates) 3 Fee Simple and Temporary Easements  Appraisals(Civiltech) 3 parcels X \$2,000/parcel  Review Appraisals (T Engineering LTD)	Total Item 4  Total Item 5	\$	\$20,502.72 \$14,407.00 \$6,662.00 \$3,048.00 \$9,710.00 26,650.68 6,000.00
ITEM 5 - Geotechnical Investigation Midland Standard Testing & Engineering  ITEM 6 - Wetland Permitting Cardno ENTRIX USACE and LCSMC Permit Submittal USACE and LCSMC Permit Submittal Re-Submittal ITEM 7 - Right-of-Way Negotiations and Appraisals ROW Documents (Jorgensen Associates) 3 Fee Simple and Temporary Easements  Appraisals(Civiltech) 3 parcels X \$2,000/parcel	Total Item 4  Total Item 5		\$20,502.72 \$14,407.00 \$6,662.00 \$3,048.00 \$9,710.00
ITEM 5 - Geotechnical Investigation Midland Standard Testing & Engineering  ITEM 6 - Wetland Permitting Cardno ENTRIX USACE and LCSMC Permit Submittal USACE and LCSMC Permit Submittal Re-Submittal  ITEM 7 - Right-of-Way Negotiations and Appraisals ROW Documents (Jorgensen Associates) 3 Fee Simple and Temporary Easements  Appraisals(Civiltech) 3 parcels X \$2,000/parcel  Review Appraisals (T Engineering LTD) 3 parcels X \$1,000/parcel	Total Item 4  Total Item 5	\$	\$20,502.72 \$14,407.00 \$6,662.00 \$3,048.00 \$9,710.00 26,650.68 6,000.00
ITEM 5 - Geotechnical Investigation Midland Standard Testing & Engineering  ITEM 6 - Wetland Permitting Cardno ENTRIX USACE and LCSMC Permit Submittal USACE and LCSMC Permit Submittal Re-Submittal ITEM 7 - Right-of-Way Negotiations and Appraisals ROW Documents (Jorgensen Associates) 3 Fee Simple and Temporary Easements  Appraisals(Civiltech) 3 parcels X \$2,000/parcel  Review Appraisals (T Engineering LTD) 3 parcels X \$1,000/parcel  Negotiations (Santacruz Associates)	Total Item 4  Total Item 5  Total Item 6	\$	\$20,502.72 \$14,407.00 \$6,662.00 \$3,048.00 \$9,710.00 26,650.68 6,000.00 3,000.00
ITEM 5 - Geotechnical Investigation Midland Standard Testing & Engineering  ITEM 6 - Wetland Permitting Cardno ENTRIX USACE and LCSMC Permit Submittal USACE and LCSMC Permit Submittal Re-Submittal  ITEM 7 - Right-of-Way Negotiations and Appraisals ROW Documents (Jorgensen Associates) 3 Fee Simple and Temporary Easements  Appraisals(Civiltech) 3 parcels X \$2,000/parcel  Review Appraisals (T Engineering LTD) 3 parcels X \$1,000/parcel	Total Item 5  Total Item 6	\$	\$20,502.72 \$14,407.00 \$6,662.00 \$3,048.00 \$9,710.00 26,650.68 6,000.00 3,000.00
ITEM 5 - Geotechnical Investigation Midland Standard Testing & Engineering  ITEM 6 - Wetland Permitting Cardno ENTRIX USACE and LCSMC Permit Submittal USACE and LCSMC Permit Submittal Re-Submittal  ITEM 7 - Right-of-Way Negotiations and Appraisals ROW Documents (Jorgensen Associates) 3 Fee Simple and Temporary Easements  Appraisals(Civiltech) 3 parcels X \$2,000/parcel  Review Appraisals (T Engineering LTD) 3 parcels X \$1,000/parcel  Negotiations (Santacruz Associates) 3 parcels X (\$2,400/parcel Negotiations + \$200/parcel Title Se	Total Item 4  Total Item 5  Total Item 6	\$	\$20,502.72 \$14,407.00 \$6,662.00 \$3,048.00 \$9,710.00 26,650.68 6,000.00 3,000.00



### Schedule





# **Attachment A**

# Jorgensen & Associates, Inc.



March 26, 2012

Mr. Reid T. Magner, P.E. Civiltech Engineering, Inc. 450 E. Devon Avenue Suite 300 Itasca, Illinois 60143

Re: Fremont Center Road Survey Proposal

Dear Mr. Magner:

Enclosed, please find our proposal to prepare a statutory plat of highways with legal descriptions and a topographic survey for the referenced project.

I would like to thank you for considering Jorgensen & Associates for this project. We look forward to developing a working relationship with your firm. Should you have any questions, comments or require any further information concerning our proposal, please feel free to call me at (847)356-3371.

Respectfully submitted, Jorgensen & Associates, Inc.

Christian H. Jorgensen, P.L.S.

President

CHJ/pt

Enclosures

E:\Civiltech\Lake\Fremont Center RdLTR

Section: Illinois Route 60 to Peterson Road

County: Lake

Job No.:

# Exhibit "A"

# Hourly Rate Range - Consultant's Regular Staff

Classification	<u>From</u>	<u>To</u>
Principal, Manager, P.L.S.	40.00	42.00
Supervisor, Project Surveyor	38.00	40.00
Cadd Supervisor, Survey Party Chief, S.I.T., Survey Party Chief	21.50	27.50
Instrument Operator, Cadd Operator, assignable Clerical and Secretarial Labor	14.00	19.00

Section: Illinois Route 60 to Peterson Road

County: Lake

Job No.:

# Exhibit "B"

# Payroll Burden & Fringe Costs

	% of Direct Productive Payroll
Federal Insurance Contributions Act	11.27%
State Unemployment Compensation	0.89%
Federal Unemployment Compensation	0.20%
Workmen's Compensation Insurance	1.59%
Paid Holidays, Vacation, Sick Leave, Personal Leave	10.85%
Bonus	4.55%
Pension	0.67%
Group Insurance	25.81%
Total Payroll Burden & Fringe Costs	55.83%

Section: Illinois Route 60 to Peterson Road

County: Lake

Job No.:

# Exhibit "C"

# Overhead and Indirect Costs

S verneud und maneer como	% of Direct Productive <u>Payroll</u>
Business Insurance	4.54%
Depreciation	12.69%
Indirect wages and salaries	37.59%
Reproductive and printing costs	0.06%
Office Supplies	2.69%
Computer Costs	0.16%
Professional Fees	1.33%
Telephone	1.63%
Fees, license & dues	1.08%
Repairs and maintenance	0.44%
Business space rent	4.11%
Facilities - capital	1.05%
Recruiting	
Survey Supplies	
Automobile/travel expense	
Equipment Rental	
Miscellaneous Expense	0.62%
State Income Tax	
Postage	
Total Overhead	74.56%

Section: Illinois Route 60 to Peterson Road

County: Lake

Job No.:

### Exhibit "D"

# Classification Types & Rates

### Sheet 1 of 2

- A. Principal/Officer
- B. Supervisor, P.L.S.
- C. Survey Party Chief, S.I.T.
- D. Instrument Operator
- E. Cadd Supervisor

# Classification Rates used for Calculation of Fee

42.00
40.00
22.00
17.50
26.50

Section: Illinois Route 60 to Peterson Road

County: Lake

Job No.:

# Exhibit "D"

# **Average Hourly Rate Calculation**

# Sheet 2 of 2

Principal/Officer	2 hours	@	\$42.00/hour	=	\$	84.00
Supervisor, P.L.S.	15 hours	@	\$40.00/hour	=	\$	600.00
Survey Party Chief, S.I.T.	117 hours	@	\$22.00/hour	=	\$	2,574.00
Instrument Operator	117 hours	@	\$17.50/hour	=	\$	2,047.50
Cadd Supervisor	89 hours	@	\$26.50/hour	=	<u>\$</u>	2,358.50
	340 hours				\$	7,664.00

Average Hourly Rate = 
$$\frac{\$7,664.00}{340}$$
 =  $\$22.54$ /hour

COST ESTIMATE OF CONSULTANT'S SERVICES

Section: Illinois Route 60 to Peterson Road

Project: Consultant: Jorgensen & Associates, Inc.

County: Lake Date: March 26, 2012
Job No.: Description: Topographic Survey

Cost Plus Fixed Fee = 14.5%[(2.3 + R)DL + IHDC]

Item	Number of Man Hours (A)	Payroll (B)	Overhead & Fringe Benefits (C)	In-House Direct Costs (D)	Sub-Total	Profit (F)	Services By Others	Total	Percent of Grand Total
1) Field - Topographic Survey	234	\$4,621.50	\$6,025.97	\$214.50	\$10,861.97	\$1,572.37	N/A	\$12,434.35	60.65%
2) Office - Compile Field Data	26	\$729.50	\$951.20	\$0.00	\$1,680.70	\$243.29	N/A	\$1,923.98	9.38%
3) Office - Create Existing Topography Base Sheets	70	\$1,990.00	\$2,594.76	\$0.00	\$4,584.76	\$663.67	N/A	\$5,248.43	25.60%
4) Office - Create T.I.N. & Contours	8	\$239.00	\$311.63	\$0.00	\$550.63	\$79.71	N/A	\$630.34	3.07%
5) Coordination Meetings	2	\$84.00	\$109.53	\$38.50	\$232.03	\$33.60	N/A	\$265.62	1.30%
TOTALS	340	\$7,664.00	\$9,993.09	\$253.00	\$17,910.09	\$2,592.63	\$0.00	\$20,502.72	100.00%

Section: Illinois Route 60 to Peterson Road

County: Lake

Job No.:

### Manhour Breakdown Topographic Survey Estimate

Peterson Road  $\pm 1,400' = \pm 0.265$  mile Illinois Route 60  $\pm 2,000' = \pm 0.379$  mile Fremont Center Road  $\pm 2,780' = \pm 0.526$  mile

Total Length  $\pm 6{,}180' = \pm 1.170 \text{ miles}$ 

1. Field – Topographic Survey

a. Establish horizontal & vertical control points

14 hours x 2 men =

28 MH

b. Locate existing topography

103 hours x 2 men =

206 MH

Sub-total Item #1 234 MH

2. Office - Compile Field Data

a. Compute control points

3 hours x 1 man =

3 MH

b. Edit & compile topographic survey

23 hours x 1 man =

23 MH

Sub-total Item #2 26 MH

3. Office - Create Existing Topography Base Sheets

a. Layout and drafting

60 hours x 1 man =

60 MH

b. Check topographic survey

10 hours x 1 man =

10 MH

Sub-total Item #3

70 MH

# 4. Office - Create T.I.N. & Contours

	<ul><li>a. Compute contours</li><li>6 hours x 1 man =</li></ul>		6 MH
	b. Check contours 2 hours x 1 man =		2 MH
5.	Coordination Meetings	Sub-total Item #4	8 MH
	Coordination Meetings 1 meeting @ 2 hours =		2 MH
		Total All Items	340 MH

Section: Illinois Route 60 to Peterson Road

County: Lake

Job No.:

# Manhour Breakdown By Item

<u>Ite</u>	<u>m</u>	Classification	Manhours
1.	Field – Topography Survey	Survey Party Chief, S.I.T. Instrument Operator	117 117
2.	Office - Compile Field Data	Supervisor, P.L.S. Cadd Supervisor	3 23
3.	Office – Create Existing Topography Base Sheets	Supervisor, P.L.S. Cadd Supervisor	10 60
4.	Office - Create T.I.N. and Contours	Supervisor, P.L.S. Cadd Supervisor	2 6
5.	Coordination Meetings	Principal/Officer	2

Section: Illinois Route 60 to Peterson Road

County: Lake

Job No.:

# **Breakdown of In House Direct Costs**

### Item

1. Field - Topographic Survey

a. Trips to project site - 13 ea.

 $\pm$  30 miles/trip x 13 trips =  $\pm$  390 miles

<u>+</u> 390 miles @ \$0.55/mile =

\$ 214.50

5. Coordination Meetings

a. Meetings at Civiltech's office - 1 ea.

 $\pm$  70 miles/trip x 1 trip =  $\pm$  70 miles

 $\pm$  70 miles @ \$0.55/mile =

\$ 38.50

Total All Items

\$ 253.00

Route: Fremont Center Road Section: @ Illinois Route 60

County: Lake

Job No.:

# Exhibit "D"

# Classification Types & Rates

# Sheet 1 of 2

- A. Principal/Officer
- B. Supervisor, P.L.S.
- C. Survey Party Chief, S.I.T.
- D. Instrument Operator
- E. Cadd Supervisor
- F. Secretarial

# Classification Rates used for Calculation of Fee

A.	Principal/Officer	\$ 42.00
В.	Supervisor, P.L.S.	\$ 40.00
	Survey Party Chief, S.I.T.	
D.	Instrument Operator	\$ 17.50
E.	Cadd Supervisor	\$ 26.50
	Secretarial	

Route: Fremont Center Road Section: @ Illinois Route 60

County: Lake

Job No.:

## Exhibit "D"

## **Average Hourly Rate Calculation**

## Sheet 2 of 2

Principal/Officer	2 hours	@	\$42.00/hour	=	\$	84.00
Supervisor, P.L.S.	72 hours	@	\$40.00/hour	=	\$	2,880.00
Survey Party Chief, S.I.T.	102 hours	@	\$22.00/hour	=	\$	2,244.00
Survey Party Chief	5 hours	@	\$22.00/hour	=	\$	110.00
Instrument Operator	102 hours	@	\$17.50/hour	=	\$	1,785.00
Instrument Operator	5 hours	@	\$17.50/hour	=	\$	87.50
Cadd Supervisor	87 hours	@	\$26.50/hour	=	\$	2,305.50
Secretarial	4 hours	@	\$17.00/hour	=	<u>\$</u>	68.00
	379 hours				\$	9,564.00

Average Hourly Rate = 
$$\frac{$9,564.00}{379}$$
 = \$25.23/hour

Route: Freemont Center Road COST ESTIMATE OF CONSULTANT'S SERVICES

Section: @ Illinois Route 60
Project: Consultant: Jorgensen & Associates, Inc.

County: Lake Date: March 26, 2012

Job No.: No. of Parcels: 3 Cost Plus Fixed Fee = 14.5% [(2.3 + R)DL + R)DL + IHDC]

	Item	Number of Man Hours (A)	Payroll (B)	Overhead & Fringe Benefits (C)	In-house Direct Costs (D)	Sub-Total (E)	Profit (F)	Services By Others	Total	Percent of Grand Total
	1) Pre-Survey Phase	4	\$96.50	\$125.83	\$46.50	\$268.83	\$38.93	\$960.00	\$1,267.75	4.76%
	2) Survey Reconnaissance	10	\$197.50	\$257.52	\$0.00	\$455.02	\$65.87	N/A	\$520.89	1.95%
	3) Project Survey Plan	2	\$53.00	\$69.11	\$0.00	\$122.11	\$17.68	N/A	\$139.78	0.52%
	4) First Submittal Plat of Highways and Descriptions	64	\$1,777.00	\$2,317.03	\$30.00	\$4,124.03	\$596.98	N/A	\$4,721.01	17.71%
	5) Survey (Field)	204	\$4,029.00	\$5,253.41	\$181.50	\$9,463.91	\$1,369.99	N/A	\$10,833.90	40.65%
	6) Survey (Office)	49	\$1,838.50	\$2,397.22	\$0.00	\$4,235.72	\$613.14	N/A	\$4,848.86	18.19%
	7) Final Submittal Plat of Highways and Descriptions	18	\$502.50	\$655.21	\$111.00	\$1,268.71	\$183.68	N/A	\$1,452.39	5.45%
	8) Coordination Meetings	2	\$84.00	\$109.53	\$38.50	\$232.03	\$33.60	N/A	\$265.62	1.00%
	9) QC/QA	26	\$986.00	\$1,285.65	\$0.00	\$2,271.65	\$328.83	N/A	\$2,600.48	9.76%
TOTAL	S	379	\$9,564.00	\$12,470.50	\$407.50	\$22,442.00	\$3,248.68	\$960.00	\$26,650.68	100.00%

Route: Fremont Center Road Section: @ Illinois Route 60 County: Lake Job No.: Manhour Breakdown **Land Acquisition Estimate** Length of Project  $= \pm 2,000' = \pm 0.379$  mile Illinois Route 60  $= \pm 3,000' = \pm 0.568$  mile Fremont Center Road  $= \pm 5,000' = \pm 0.947$  mile Total Length 3 Parcels: 3 Fee Simple & Temporary Easement 1. Pre-Survey Phase Research available records Title Co. 3 MH a. Recorder's Office b. I.D.O.T. c.

2. Reconnaissance Survey

Utilities

**Private Surveyors** 

**Land Owners** 

d.

e.

f.

5 hours x 2 men = 10 MH

Sub-total Item # 1

1 MH

4 MH

3.	Proje	ct Survey Plan	$\pm$ 2,640'/sheet-2 she	eets
	a.	Alignment info	)	
	b.	Existing R.O.W. info	)	
	c.	Land line data	)	
	d.	Subdivision data	) 1.0 hr./sht. x 2 =	<u>2 MH</u>
			Sub-total Item #3	2 MH
4.	First	Submittal Plat of Highways &	z Descriptions	
	a.	Ownership info	)	
	b.	Total holding boundaries	) )	
	c.	Total holding area listing	)	1 MH
	d.	Private survey info	)	
	e.	Deed calculated closures	)	
	f.	Layout and drafting 48 hours x 1 man =	$\pm$ 600'/sht. $\pm$ 4 sheets	48 MH
		Total Holding sheets Alignment & Tie sheets	4 hours/sheet x 1 = 6 hours/sheet x 1 =	4 MH 6 MH
	g.	Legal descriptions	6 descriptions	5 MH
			Sub-total Item #4	64 MH

# 5. Survey (Field)

a.	Monument center line alignments at 100 foot intervals  Fremont Center Road - 3,000' - 20 hrs. x 2 men =  Illinois Route 60 - 2,000' - 5 hrs. x 4 men =	40 MH 20 MH
b.	Reference center line alignments 8 hours x 2 men =	16 MH
c.	Measure existing R.O.W., property & section lines 44 hours x 2 men =	88 MH
d.	Appraisal topography 12 hours x 2 men =	24 MH
e.	Monument & reference proposed right of way 8 hours x 2 men =	<u>16 MH</u>
	Sub-total Item #5	204 MH
6. Surve	ey (Office)	
a.	Compute traverse 6 hours x 1 man =	6 MH
b.	Compute existing R.O.W., property & section lines 36 hours x 1 man =	36 MH
c.	Compile appraisal topography 3 hours x 1 man =	3 MH
d.	Compute center line alignments 2 hours x 1 man =	2 MH
e.	Compute proposed right of way 2 hours x 1 man =	2 MH
	Sub-total Item #6	49 MH

# 7. Final Submittal Plat of Highways & Descriptions

	a.	Final drafting <u>+</u> 6 sheets 8 hours x 1 man =		8 MH
	b.	Final descriptions 6 descriptions		1 MH
	c.	Prepare & record Monument Records 2 Monument Records @ 3 hours each =		6 MH
	d.	Assembly of final papers		3 MH
			Sub-total Item #7	18 MH
8.	Coord	dination Meetings		
		1 meeting @ 2 hours =		2 MH
9.	QC/Q	QA.		
	a.	Check preliminary plats 6 sheets		18 MH
	b.	Check preliminary legal descriptions 6 legal descriptions		3 MH
	c.	Check final plats 6 sheets		4 MH
	d.	Check final legal descriptions 6 legal descriptions		1 MH
			Total All Items	379 MH

Route: Fremont Center Road Section: @ Illinois Route 60

County: Job No.: Lake

## Manhour Breakdown By Item

<u>Item</u>	Classification	Manhours
1) Pre-Survey	Cadd Supervisor Secretarial	3
2) Survey Reconnaissance	Survey Party Chief, S.I.T. Instrument Operator	5 5
3) Project Survey Plan	Cadd Supervisor	2
4) First Submittal Plat of Highways & Descriptions	Supervisor, P.L.S. Cadd Supervisor	6 58
5) Survey (Field)	Survey Party Chief, S.I.T. Survey Party Chief Instrument Operator Instrument Operator	97 5 97 5
6) Survey (Office)	Supervisor, P.L.S. Cadd Supervisor	40 9
7) Final Submittal Plat of Highway & Descriptions	Supervisor, P.L.S. Cadd Supervisor Secretarial	4 11 3
8) Coordination Meetings	Principal/Officer	2
9) QC/QA	Surveyor, P.L.S. Cadd Supervisor	22 4

Route: Fremont Center Road Section: @ Illinois Route 60

County: Lake

Job No.:

#### Breakdown of In House Direct Costs

#### Item

1. Pre-Survey Phase	
---------------------	--

a. Trip to Recorder's Office - 1 ea.	
$\pm$ 30 miles/trip x 1 trip = $\pm$ 30 miles	
$\pm$ 30 miles @ \$0.55/mile =	

b. Records from Recorder's Office \$\\ 30.00\$

Sub-total Item #1 \$ 46.50

16.50

#### 4. First Submittal Plat of Highways & Descriptions

a. Plat of Highways Mylars	
6 sheets @ \$5.00/sheet =	\$ 30.00

#### 5. Survey (Field)

a. Trips to project site - 11 ea. ± 30 miles/trip x 11 trips = ± 330 miles ± 330 miles @ \$0.55/mile = \$ 181.50

#### 7. Final Submittal Plat of Highways & Descriptions

a. Record Monuments
2 Monument Records @ \$39 each = \$78.00

b. Deliver Final Papers to I.D.O.T. ± 60 miles/trip x 1 trip = ± 60 miles

 $\pm$  60 miles @ \$0.55/mile =  $\frac{$33.00}{}$ 

Sub-total Item #7 \$ 111.00

## 8. Coordination Meetings

a. Meetings at Civiltech's office -1 ea.  $\pm 70$  miles/trip x 1 trip =  $\pm 70$  miles  $\pm 70$  miles @ \$0.55/mile =

\$ 38.50

Total All Items

\$ 407.50

Route: Fremont Center Road Section: @ Illinois Route 60

County: Lake

Job No.:

## Breakdown of Services By Others

Item

- 1. Pre-Survey Phase
  - a. Commitment for Title Insurance Letters 3 Commitments @ \$320.00 each =

\$ 960.00



# **Attachment B**

# Midland Standard Engineering & Testing, Inc.



#### www.mset.com

#### MIDLAND STANDARD ENGINEERING & TESTING, INC.

558 Plate Drive, Unit 6 East Dundee, Illinois (847) 844-1895 f(847) 844-3875

March 23, 2012

Mr. Reid T. Magner, P, E. Civiltech Engineering, Inc. 450 East Devon Avenue, Suite 300 Itasca, Illinois 60143

Re: Proposal for Roadway Geotechnical Report

Fremont Center Road Extension

Lake County, Illinois

Dear Mr. Magner:

We are pleased to have the opportunity to submit the following proposal for the performance of a soil exploration on the referenced project.

#### Project Description and Scope of Work

The project from a geotechnical standpoint includes the following items;

#### Fremont Center Road

Improvements to Fremont Center Road include approximately 1800 lineal feet of new road alignment from Route 60 to Peterson Road and 800 lineal feet of road widening south of Route 60. For this work a total of eleven (11) roadway subgrade borings and two (2) payement cores are planned.

#### Illinois Route 60

Improvements to Route 60 includes pavement widening for turn lane/intersection requirements. For this work a total of 2000 lineal feet of Route 60 will be explored with seven (7) subgrade soil borings and four (4) pavement cores.

#### Storm Water Basin

A new storm water basing is planned at the south easterly corner of the Fremont Center Road/Peterson Road intersection. A total of four (4) soil boring are planned for this area.

#### Method of Performance - Field Work

The pavement subgrade and detention basin borings will involve drilling test holes that incorporate standard penetration tests and split-spoon sampling at 2-1/2 foot intervals. The road subgrade borings will be drilled to a depth of ten (10) feet and the storm basin boring will be drilled to a depth of fifteen (15) feet. The borings will be performed in compliance with the current State of Illinois, Geotechnical Manual.

In our proposal, we have assumed that the final locations and elevations will be determined by the design section engineer or will be referenced to centerline stationing provided by the DSE.

#### Method of Performance - Analysis and Report

The roadway boring information will be presented on profile drawings with base drawing provided by the DSE. The pavement core results will be presented in tabular form. The results of this field exploration and laboratory testing would be used in an analysis and formulation of our recommendations. Major subject areas for our analysis, recommendations and report would consist of stating the subsurface soil and ground water conditions, a tabulation of the existing pavement materials and thickness, and a review of subgrade conditions with recommendations for treatment areas and recommendations for the storm water basin. A written report summarizing and presenting the data and recommendations will be prepared by a Registered Professional Engineer.

#### Timing

We will begin on work after notice to proceed and as surface conditions allow for a truck mounted drill rig. We have <u>not</u> included any provisions for crop damage. We plan on mobilizing and doing all the borings concurrently. The final report is expected to be complete with six weeks after notice to proceed.

#### Fees

We propose to provide this work at the unit rates quoted on the attached Schedule of Services and Fees, Attachments 1.1 through 1.2. These estimated quantities and unit rates are based on information as outlined in this proposal and experience on past projects. On the basis of the above information, we estimate that these services can be provided for a fee of \$ 14,407.00.

#### General

MSET is acquainted with the local subsurface conditions and has participated in the planning, development and execution of numerous highway soil explorations in this area. We are looking forward to working with you on this project.

Respectfully submitted,

MIDLAND STANDARD ENGINEERING & TESTING, INC.

William J. Wyzgala, P.E.

Project Engineer

WJW

Enclosure: Attachments 1.1, 1.2, and General Conditions

\$6,360.00

\$14,407.00

TOTAL:

### ATTACHMENT 1.1 SCHEDULE OF SERVICES AND FEES

# FREMONT CENTER ROAD EXTENSION LAKE COUNTY, ILLINOIS

<u>Item</u> Field Services	Estimated Quantity	<u>Unit Cost</u>	Extension
Mobilization of Drilling equipment, traffic control and personnel, lump sum	1	\$400.00	\$400.00
Roadway Profile & Detention Basin borings with Split Spoon Sampling, l.f.	240	\$17.50	\$4,200.00
Pavement Core, each	6	\$175.00	\$1,050.00
Traffic Control, signs, etc./day	i	\$660.00	\$660.00
	Field Serv	vices Total:	\$6,310.00
<u>Laboratory Services</u> Moisture Content Determinations, ea	102	\$6.00	\$612.00
Atterberg Limit Determination, ea.	5	\$80.00	\$400.00
Hydrometer/Grain Size Analysis, ea.	5	\$90.00	\$450.00
Illinois Bearing Ratio including Standard Proctor Test, ea.	1	\$275.00	\$275.00
	Laboratory Serv	vices Total:	\$1,737.00
Engineering Services for Soil Survey Including Layout Coordination w/Design Engineer Utility Clearance and Permits Engineering Supervision of Soil Borings Soil Profile Drawings Analysis and Recommendations for Earthwork Report Preparation, Consultation			

Estimated Cost (@ Unit Rates Listed on Attachment 1.2)

## ATTACHMENT 1.2 ENGINEERING SERVICES

# FREMONT CENTER ROAD EXTENSION LAKE COUNTY, ILLINOIS

Our fees for Engineering Services will be based on the actual number of hours required to complete the work, and will be determined on a Unit Rate Basis at these rates for each classification of personnel:

		Rate/Hour	
Principal Engineer, per hr.	1.5	\$130.00	\$195.00
Project Engineer, per hr.	8	\$120.00	\$960.00
Staff Engineer, per hr.	16	\$90.00	\$1,440.00
Field Engineer, per hr.	24	\$90.00	\$2,160.00
Technician, per hr.	8	\$75.00	\$600.00
Drafting/Word Processing, per hour	16	\$75.00	\$1,200.00
			\$6,360.00

### MIDLAND STANDARD ENGINEERING & TESTING, INC.

FEE AND RATE SCHEDULE GENERAL CONDITIONS

#### ENGINEERING AND ASSOCIATED SERVICES

Fees for our services will be based upon the time worked on the project at the following rates:

Rate Per Hour

See attached

for rates

proposal

Project Engineer

Project Mgr./Sr. Engineer, P.E.

Project Engineer, P.E.

Sr. Staff/Field Engineer

Field Engineer

Eng. Technician

Sr. Technician

Technician

CAD Draftsman

Draftsman

Word Processing

OVERTIME RATES: Applicable to all classifications below

Staff Eng. - O.T. Rates are 1.40 times straight time

#### REIMBURSABLE EXPENSES

The following items are reimbursable to the extent of actual expenses:

- 1. Transportation, lodging and subsistence for out of town travel
- 2. Long distance telephone, telegraph and cable charges.
- 3. Special mailings and shipping charges.
- 4. Special materials and equipment unique to the project.
- 5. Automobile travel on projects.
- 6. Computer charges.

#### TEST BORINGS AND FIELD INVESTIGATIONS

On projects requiring test borings, test pits, or other explorations, we may obtain the services of reputable subcontractors to perform such work.

#### SPECIAL RATES

Per Diem or other special rates can be established for specific projects when conditions indicate the desirability of such rates.

#### INCREASES

Fee schedule increases made by our firm on an over-all client basis will be applied to work on all projects as they become effective. At least 30 days advance notice of such increases will be given.

#### ACCESS TO SITES

Unless otherwise agreed, the Client will furnish us with right-of-access to the site in order to conduct the planned exploration. We will take responsible precautions to minimize damage to the site due to our operations, but have not included in the fee the cost of restoration of any damage resulting from the operations. If the Client desires, we will restore any damage to the site and add the cost of restoration to the fee.

WE RESERVE THE RIGHT TO SUSPEND OR TERMINATE WORK UNDER ORAL AGREEMENT UPON FAILURE OF THE CLIENT TO PAY INVOICES AS DUE.

#### INSURANCE

We maintain Workman's Compensation Insurance and Employer's Liability Insurance in conformance with state law. In addition, we maintain Comprehensive General Liability Insurance and Automobile Liability Insurance with bodily injury (limit \$1,000,000 each occurrence, \$1,000,000 aggregate) and property damage (limit \$1,000,000 each occurrence, \$1,000,000 aggregate).

Within the limits of said insurance, we agree to hold the client harmless from and against loss, damage, injury or liability arising directly from the negligent acts or omissions of ourselves, our employees, agents, subcontractors and their employees and agents. If the client placed greater responsibilities upon us or requires further insurance coverage, we if specifically so directed will take out additional insurance (if procurable) to protect us, at the clients' expense. But we shall not be responsible for property damage from any cause, including fire and explosion, beyond the amounts and coverage of our insurance.

#### LIMITATION OF PROFESSIONAL LIABILITY

The Client recognizes the inherent risks connected with construction. In performing our professional services, we will use that degree of care and skill ordinarily exercised, under similar circumstances, by reputable members of our profession practicing in the same or similar locality. No other warranty, express or implied, is made or intended by the proposal for consulting service or by furnishing oral or written reports of the findings made. It is agreed that the Client will limit any and all liability, claim for damages, cost of defense or expenses to be levied against us on account of any design defect, error, omission, or professional negligence to a sum not to exceed \$50,000, or the amount of our fees, which ever is greater.

#### INVOICES

Progress invoices will be submitted to the client monthly and a final bill will be submitted upon completion of the services. Invoices will show charges for different personnel and expense classifications. A more detailed separation of charges and data will be provided at clients request, but each invoice is due on presentation and is past due thirty (30) days from invoice date. Client agrees to pay a finance charge of 1 1/2% per month, or the maximum rate allowed by law on past due accounts.

The client's obligation to pay for the work contracted is in no way dependent upon the clients ability to obtain financing, zoning, approval of governmental or regulatory agents, or upon the client's successful completion of the project.



# **Attachment C**

# **Cardno ENTRIX**



March 26, 2012

1000 Hart Road Suite 130 Barrington, IL 60010

USA

Cardno ENTRIX

Phone 847 277 2850 Toll-free 800 368 7511

Fax 847 381 6679 www.cardno.com

www.cardnoentrix.com

Mary L. Young, P.E., PTOE Director of Traffic, Environmental and Design Studies Civiltech Engineering, Inc. 450 East Devon Avenue, Suite 300 Itasca, IL 60143

Subject: Proposal to Provide Environmental Services

Fremont Center Road Extension, IL Route 60 to Peterson Road

Unincorporated Lake County, Illinois

Dear Ms. Young:

Cardno ENTRIX is pleased to present Civiltech Engineering, Inc. (Civiltech) with this proposal to provide environmental services for the Lake County Division of Transportation (LCDOT) Fremont Center Road Extension, IL Route 60 to Peterson Road project (Fremont Center Road Project) located in Unincorporated Lake County, Illinois. Services presented herein coincide with the Fremont Center Road Project Phase I and Phase II transportation engineering related services provided by Civiltech to LCDOT. Cardno ENTRIX presents this proposal in the following sections: project description, limitations and reliability, scope of work, project team, project schedule, project costs, and proposal acceptance.

#### PROJECT DESCRIPTION

Cardno ENTRIX understands that Civiltech has been retained by LCDOT to provide Phase I and Phase II transportation engineering services for the extension of Fremont Center Road from IL Route 60 to Peterson Road. These proposed improvements include: construction of approximately 1,770 linear feet of a new three-lane section roadway from IL Route 60 to Peterson Road; construction of a new bike trail (Fort Hill Trail) within the proposed Fremont Center Road right-of-way (ROW); improvements to the IL Route 60 at Fremont Center Road intersection; improvements to the Peterson Road at Fremont Center Road intersection; a new curb and gutter and storm sewer system; a stormwater detention facility; and easement and ROW acquisition. The project area was presented to Cardno ENTRIX by Civiltech on March 22 and 23, 2012. The Project Corridor for the environmental services presented in this proposal includes this project area, plus an additional 100 feet per Lake County Watershed Development Ordinance (LCWDO) requirements.

In preparing this proposal, Cardno ENTRIX has made the following assumptions:

1. Cardno ENTRIX understands that the Fremont Center Road Project is not an Illinois Department of Transportation (IDOT) federally funded pass-through project. Therefore, the scope of services for this proposal does not include IDOT related coordination;



- 2. There are no Lake County Advanced Identification (ADID) wetlands or high-quality aquatic resources (HQAR) within, adjoining, or adjacent to the Project Corridor;
- 3. There are no additional environmental concerns not presented in this proposal within the Project Corridor that would impede the U.S. Army Corps of Engineers (USACE) and Lake County Stormwater Management Commission (LCSMC) permit process, such as the presence of state and federal threatened and endangered (T&E) species, protected historical and cultural sites, and unanticipated environmental due diligence;
- 4. Permitting will fall under the USACE Regional Permit Program (RPP). Individual Permit (IP) coordination services are not included in this scope of work. Should an IP be required, Cardno ENTRIX will contact Civiltech to discuss further permit requirements;
- 5. USACE and LCSMC required wetland mitigation will be coordinated through a wetland mitigation bank. Cardno ENTRIX also assumes that the appropriate wetland mitigation banks are available, and that Civiltech and LCDOT are responsible for all wetland banking mitigation fees;
- 6. Wetland mitigation design, plan preparation, monitoring, and management are not included in this proposal;
- 7. Preliminary Site Investigation (PSI) services are not included in this proposal; and
- 8. Clean Construction or Demolition Debris services are not included in this proposal.

#### LIMITATIONS AND RELIABILITY

LCDOT has requested that the Fremont Center Road Project conform to IDOT procedures in acquiring properties for roadway construction that have the potential for environmental concerns. LCDOT must be able to assess environmental risks and liabilities associated with acquiring properties for new road alignments and improvements for three (3) main reasons; to protect worker and public safety, to reduce LCDOT liability, and to avoid delays by operating in an efficient and cost-effective manner. Cardno ENTRIX will utilize methods and procedures consistent with good commercial or customary practices designed to conform to acceptable industry standards referenced in the Manual for Conducting Preliminary Environmental Site Assessments (PESA) for IDOT Highway Projects (Open File Series 1996-5) to conduct a PESA for the Project Corridor. The PESA report will identify environmental conditions and levels of risk associated with man-made and natural hazards that may impact the Fremont Center Road Project. The rating system for risk assessment will provide explicit description of potential site hazards, which trigger specific actions by LCDOT to avoid, mitigate, or remediate the hazards.

To enable determination of environmental risks, the Cardno ENTRIX PESA will: thoroughly investigate the target properties, including a review of the historical use of the property area and adjacent properties; perform an examination of current uses and conditions; and subsurface screen testing if necessary. This investigation will reflect the three main components of the PESA report; collection of historical, geologic, and basic environmental information about an area; analysis of this information and current land use and conditions; and field and laboratory studies.

The Cardno ENTRIX PESA is limited to the information available at the time services are rendered. This limitation includes visual observations made on the day of inspection, review of readily available and relevant data/reports, and statements made and information provided by the client, his agents, land-owners or tenants of within the Project Corridor and adjacent properties, outside parties, and regulatory agencies.



Upon completion of historical research, land use information systems, and field investigations, the Cardno ENTRIX PESA will assign a risk assessment rating to the PESA report, in addition to individual areas of potential concern within the Project Corridor. The PESA's risk assessment rating will be categorized as NO, LOW, MODERATE, or HIGH risk. A more detailed outline of Cardno ENTRIX PESA report's scope of work is discussed in further detail below (See Task 3 – Preliminary Environmental Site Assessment).

#### SCOPE OF WORK

Cardno ENTRIX proposes to complete the requested environmental services in six tasks divided between Transportation Phase I and Phase II; four of these tasks are presented under Phase I and two are presented under Phase II. Cardno ENTRIX has based this proposal on the Fremont Center Road Project information provided by Civiltech on March 22 and 23, 2012.

#### **Transportation Phase I Environmental Services**

#### Task 1 - Wetland Delineation Report

Cardno ENTRIX proposes to conduct a wetland delineation for areas within the Project Corridor in accordance with the requirements presented in the Lake County Watershed Development Ordinance (LCWDO) and the August 2010 USACE Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region, Version 2.0 (Supplemental Manual). This proposed wetland delineation includes all areas within the Project Corridor and any additional areas within 100 feet of proposed roadway ROW, per requirements of the LCWDO. This additional investigation area ensures that all potential Lake County ADID wetlands and their 100 foot buffer areas are identified within the proposed roadway ROW of the Fremont Center Road Project.

Proposed wetland survey services include the identification and delineation of all on-site wetlands, documentation of all adjacent wetlands, determination and delineation of wetland buffer areas, and determination of high quality aquatic resources (HQAR). The scope of this task includes an off-site record/document review followed by an on-site investigation. Field investigation activities include on-site testing for the presence of hydric soils, hydrophytic vegetation, and sufficient hydrology. A floristic quality assessment (FQA) will be conducted for each identified wetland, as required by the LCWDO. All wetland investigation activities will follow the standards outlined in the LCWDO and the Supplemental Manual. Also as part of this task, Cardno ENTRIX proposes to conduct a farmed wetland determination in accordance with the Natural Resources Conservation Service's Illinois 1998 Wetland Mapping Conventions (NRCS Procedures). This farmed wetland investigation includes a preliminary resource review, a Food Security Act (FSA) slide review, and an on-site analysis for the presence of hydric soils and sufficient hydrology. Cardno ENTRIX's Lake County Certified Wetland Specialist will lead all wetland field investigation activities.

Where appropriate, Cardno ENTRIX will flag USACE "waters of the U.S." (WOUS) and LCSMC Isolated Waters of Lake County (IWLC) jurisdictional wetland limits within the Project Corridor. Cardno ENTRIX will coordinate with Civiltech and their surveyors to ensure that all wetland and soil pit flags are surveyed. Cardno ENTRIX proposes that this wetland survey information be provided by Civiltech in AutoCAD format for inclusion in the Wetland Delineation Report.

As part of this task, Cardno ENTRIX will submit an Ecological Compliance Assessment Tool (EcoCAT) request to the Illinois Department of Natural Resources (IDNR) for identification of state listed T&E species and Natural Areas within, adjoining, or adjacent to the Project Corridor. Cardno ENTRIX will also prepare the preliminary Section 7 consultation memorandum to the U.S. Fish and Wildlife Service (USFWS) for identification of federally listed T&E species within, adjoining, or adjacent to the Project Corridor.

Four copies of the final Wetland Delineation Report, which will include the farmed wetland investigation, and a .pdf format file will be forwarded to Civiltech for review and distribution.



#### Task 2 - Preliminary USACE and LCSMC Permitting

This task includes a pre-application meeting, an on-site meeting, and coordination with the USACE, LCSMC, and Civiltech. Cardno ENTRIX will submit the wetland delineation report to LCSMC for preliminary jurisdictional determination (PJD) and boundary verification (BV) of IWLC. Cardno ENTRIX will also submit the wetland delineation report to USACE for concurrence and jurisdictional determination of WOUS, including wetlands. Any fees required for these submittals have not been included in this scope of services as the number of wetlands has not yet been determined. These fees are the responsibility of LCDOT and will be paid directly to the appropriate permitting agencies. Cardno ENTRIX will continue coordination with both the USACE and LCSMC until all jurisdictional determinations and boundary verifications are completed or for up to 120 days from the time of submittal.

#### Task 3 – Preliminary Environmental Site Assessment (PESA)

Based on the criteria outlined in the IDOT Bureau of Local Roads and Streets (BLR&S) manual, a PESA must be conducted to determine the environmental condition of all properties within the Project Corridor prior to the acquisition of right-of-ways (ROW) or improvements to existing ROWs. Cardno ENTRIX proposes to complete the Fremont Center Road Project PESA under four work items. These work items are necessary to identify environmental conditions and levels of risk associated with man-made and natural hazards that may impact the Fremont Center Road Project. As part of the PESA, Cardno ENTRIX proposes to identify areas of concern (risks) that may exist from current or past uses of properties. Cardno ENTRIX assumes that current owners of identified properties will be available and cooperative in providing full disclosure about any known environmental matters/concerns about any areas of concern within the Project Corridor or adjacent properties.

#### Work Item 3.1: Records Review

Cardno ENTRIX first proposes to conduct a Records Review (historical background evaluation) as part of Work Item 3.1. This review is intended to collect detailed information relevant to the Project Corridor and adjacent properties for the purpose of identifying environmental concerns of all properties with regard to the Project Corridor. Records will be obtained from reasonably ascertainable and standard sources "if available", including, but not limited to:

#### Locational Resources -

- Topographic Maps
- Street or City Maps

#### Geologic and Hydrogeologic Information Resources -

- Soil survey manuals
- Geologic maps and publications
- Hydrogeologic Information

#### Land Use Information Resources -

- Plat Maps
- Fire insurance maps
- City Directories
- Historical topographic maps
- Aerial photographs



#### Government Lists and Databases -

- Federal Agency databases (NPL Site List, RCRA CORRACTS, and non-CORRACTS TSD Lists);
- State Agency databases (State-sponsored Priority Sites List, Registered USTs, and Leaking USTs Lists);
- Local Agency records (landfill and solid waste disposal sites, public wells, registered USTs, zoning maps);

#### Natural Hazards -

- Flood maps
- National Wetlands Inventory Maps
- Landslide Inventory
- Seismic risk

#### Alternative Historical Information Resources -

- Local libraries
- Building Permits
- Zoning records
- Records of Environmental Liens; and
- Title Records (if warranted).

#### Work Item 3.2: Site Reconnaissance

Cardno ENTRIX proposes to conduct a Site Reconnaissance as part of Work Item 3.2. The Site Reconnaissance will include a complete "walk-over" of the Project Corridor with detailed investigations of identified parcels of interest. Adjacent properties and the surrounding areas will be assessed with respect to environmental concerns that could possibly affect the Project Corridor.

The Site Reconnaissance will include (if available; but not limited to) a review of the projects topography, water quality of observed surface water, animal life, general health of vegetation (including obvious areas of stressed vegetation noted), addresses and present uses of buildings, note potential historical uses different from observed current uses, stains and discolorations on or around buildings within the Project Corridor, tanks, debris, drums, dumped materials, unusual odors, gasoline stations, vent pipes, potential piping areas, and filler caps among other features. In addition, other utilities in the area, transformers and capacitors, former and current railroad ROWs, natural gas or petroleum pipelines, dead ends, and areas where potential dumping could have occurred will also be noted.

Photographic documentation of the site reconnaissance; specifically areas that may require subsurface testing as well as features of potential concern or of interest will be included in the PESA report.

#### Work Item 3.3: Personal Interviews

Cardno ENTRIX proposes to conduct Interviews as part of Work Item 3.3. These interviews (as applicable) will be conducted with owners of parcels located within the Project Corridor and site features to confirm or refute the information obtained from the Records Review. At a minimum, a key manager or individual with good knowledge of the uses and physical characteristics of the parcel should be interviewed. Owners or occupants may provide information that would be identified as an environmental concern that is not available in historical records (e.g. historical "unrecorded" waste disposal practices conducted on-site or at neighboring facilities). The nature of the interview will depend on each individual parcel within the Project Corridor. Cardno ENTRIX notes that interviews with the owner or owner's representative may not be possible for all parcels within the Project Corridor due to access and/or other limitations.



Cardno ENTRIX will work with the designated individual(s) to coordinate the personal interviews while on-site for the Site Reconnaissance component of this Work Item. If personal interviews are not possible, Cardno ENTRIX will attempt to conduct the interview over the phone or submit requests in writing. Regardless of the method used, the following information, if applicable, will be requested prior to the interview:

- Environmental Audit Reports;
- Environmental Site Assessment Reports;
- Environmental Permits;
- Local geological conditions;
- Current and historic waste disposal practices;
- Drinking water test results;
- Septic system maintenance records; and
- Any other applicable aspects or information.

Local government officials who are responsible for underground storage tanks and/or hazardous material storage and waste disposal will also be contacted. The questions asked of the local officials are aimed at gaining a better insight into the current and past uses of the areas of concern sites and adjacent properties.

#### Work Item 3.4: PESA Report

Cardno ENTRIX proposes to prepare a comprehensive PESA Report as the final work item under this Task. This PESA Report will summarize the information obtained from the three (3) preceding work items explained above, disclose information regarding identified environmental concerns, and provide levels of risk associated with manmade and natural hazards that may impact the Fremont Center Road Project. The PESA Report will contain all information gathered during the investigation and will designate the identified potential areas of concern with a PESA risk finding designation in accordance with the BLR&S methodology. Cardno ENTRIX will initially prepare and submit a draft PESA Report to Civiltech for review. Upon receipt of Civiltech's comments to the draft report, Cardno ENTRIX will submit a final PESA Report to Civiltech for use and distribution. Four copies of the final PESA Report and a pdf format file will be forwarded to Civiltech for review and distribution.

#### Task 4 - Drain Tile Survey

Cardno ENTRIX proposes to conduct a drain tile survey for the Project Corridor. Findings from this survey will be presented in a Drain Tile Survey Report. Cardno ENTRIX proposes to utilize Huddleston McBride Land Drainage Co. (Huddleston McBride), or similar provider, to locate drain tiles according to the methodologies proposed in the LCWDO. Proposed services include a desktop survey and map review, field investigation, surveyed field locations of drain tiles within the Project Corridor, and preparation of a technical report. The desktop survey and map review includes: coordination with the Natural Resources Conservation Service (NRCS) or other agencies as appropriate; and a review of historical aerials, topography, soil surveys, hydrology, and other resources that may identify potential drain tile locations. An on-site field investigation to identify, locate, and flag drain tile locations and corridors in the field will be conducted by Huddleston McBride, or similar provider. This field investigation will utilize appropriately sized equipment, and will locate drain tiles by slit trenching methodology within the Project Corridor. Construction equipment will dig, locate, and/or repair drain tiles when found. Findings of no drain tiles identified or encountered in the field will also be noted in the technical report. Documentation from the drain tile survey may include site conditions, type, estimated depth, and estimated size of drain tiles. These findings will be detailed in the Drain Tile Survey Report and four copies of this memorandum and a .pdf format file will be forwarded to Civiltech for review and distribution.



#### **Transportation Phase II Environmental Services**

#### Task 5 – USACE and LCSMC Permit Submittal

As part of this task, Cardno ENTRIX will prepare and submit all applicable wetland related permit materials for the Fremont Center Road Project to the USACE, LCSMC, and Civiltech. Cardno ENTRIX understands these permits to specifically include the wetland provisions portion of the LCWDO Watershed Development Permit (WDP) submittal to LCSMC and the Joint Application submittal to USACE. Cardno ENTRIX will prepare the permit applications and will request information, signatures, and fees necessary for a complete initial submittal. Cardno ENTRIX also proposes to include as part of this task, a pre-application meeting with the USACE, LCSMC, and Civiltech. All permit submittals will be prepared and submitted by Cardno ENTRIX's Lake County Certified Wetland Specialist. Permitting fees have not been included in this proposal and are the responsibility of Civiltech and/or LCDOT. However, Cardno ENTRIX will discuss any appropriate fees with Civiltech prior to all permit submittals. Cardno ENTRIX will communicate with the USACE and LCSMC after the initial permit submittals until USACE and WDP comments or approvals are received, or for up to 120 days from the time of submittal.

Wetland mitigation banking coordination with the USACE, LCSMC, and an appropriate wetland banker is included in this task. However, wetland mitigation design, plan preparation, monitoring, and management are not included in this scope of work. Should the LCSMC require mitigation other than mitigation banking, Cardno ENTRIX will coordinate with Civiltech with regard to the mitigation requirements necessary to obtain the appropriate wetland mitigation related permits. All fees associated with obtaining wetland banking credits are not included in this scope of work and are the responsibility of Civiltech or LCDOT.

#### Task 6 – USACE and LCSMC Permit Re-submittal (Optional)

Cardno ENTRIX proposes as part of this task to include coordination with the USACE, LCSMC, and Civiltech with regard to wetland permit comments received from the USACE and LCSMC as a result of the initial permit submittal. The services under this task include permit coordination and submittal for one subsequent re-submittal. Cardno ENTRIX will not proceed with subsequent wetland permit submittals unless authorized by Civiltech. Cardno ENTRIX will coordinate with the appropriate agencies, and prepare and submit the appropriate permit applications to the USACE and LCSMC as necessary. Re-submittal fees are the responsibility of the Civiltech or LCDOT.

#### **PROJECT TEAM**

Cardno ENTRIX proposes to manage this project out of the Barrington, Illinois office with personnel who have experience in conducting environmental and wetland science services in Lake County. Mr. Barry Stuedemann, P.E. will serve as Project Manager and Lake County Certified Wetland Specialist. Cardno ENTRIX has many qualified environmental professionals available to support Mr. Stuedemann in this effort, including Cardno JFNew and Cardno ATC staff.



#### **PROJECT SCHEDULE**

Cardno ENTRIX will proceed with the scope of work presented in this proposal immediately upon authorization from Civiltech. Cardno ENTRIX, however, will only proceed for the specific tasks authorized by Civiltech. Specific schedules for each task are unknown at this time and will be coordinated with Civiltech throughout the duration of the Fremont Center Road Project. Wetland field investigations, wetland field meetings with the USACE and LCSMC, and the final floristic quality assessment work must be completed during the Lake County growing season, from May 15<sup>th</sup> to October 1<sup>st</sup>, as required by the LCWDO. The schedule to complete each task is influenced by responses to requests for information through the Freedom of Information Act (FOIA) as well as the responses, concerns, and requests of Civiltech and the concerning agencies.

#### **PROJECT COSTS**

Cardno ENTRIX estimates the cost to complete tasks outlined in this proposal to be a maximum "not-to-exceed" fee of \$52,274. An itemization of these costs is presented in Table 1, Cost Estimate for Consulting Services.

A summary of these costs are as follows:

Task	Costs
Transportation Phase I Environmental Services	
Task 1 – Wetland Delineation Report	\$14,946
Task 2 – Preliminary USACE and LCSMC Permitting	\$4,658
Task 3 – Preliminary Environmental Site Assessment (PESA)	\$9,700
Task 4 – Drain Tile Survey Report	\$13,260
Phase I Subtotal:	\$42,564
Transportation Phase II Environmental Services	
Task 5 – USACE and LCSMC Permit Submittal	\$6,662
Task 6 – USACE and LCSMC Permit Re-submittal	\$3,048
Phase II Subtotal:	\$9,710
Total:	\$52,274

Cardno ENTRIX will not proceed with any task without written authorization from Civiltech. Cardno ENTRIX will bill Civiltech on a time and material basis in accordance with the Client Agreement between ENTRIX and Civiltech, dated February 18, 2008, and will not exceed the estimated costs presented in this proposal without written authorization from Civiltech.



#### PROPOSAL ACCEPTANCE

To indicate your acceptance of this proposal, please sign the attached Task Order(s) and e-mail or fax back to our office at 847-381-6679 as our authorization to proceed. Cardno ENTRIX appreciates this opportunity to present environmental services to Civiltech. If you have any questions, please do not hesitate to contact me at 847-277-2850.

Sincerely,

Baron H. Stuedemann, P.E., PWS Senior Consultant / Wetlands Specialist

Boun H. Strederon

for Cardno ENTRIX Direct Line: 847-277-2866

Email: baron.stuedemann@cardno.com

# TABLE 1 Cost Estimate for Consulting Services

#### ENVIRONMENTAL SERVICES FREMONT CENTER ROAD EXTENSION IL Route 60 to Peterson Road

#### Prepared for Civiltech Engineering, Inc. Prepared by Cardno ENTRIX

March 26, 2012

FREMONT CENTER ROAD PROJECT ENVIRONMENTAL SERVICES WORK ITEM DESCRIPTION	PROJECT MANAGER	LEAD ENGINEER	PROJECT ENGINEER	STAFF ENGINEER	LEAD SCIENTIST	STAFF SCIENTIST	PROJECT COORD.	ADMIN. ASSISTANT	TOTAL HOURS	TOTAL LABOR COSTS	TOTAL DIRECT COSTS*	NOT-TO- EXCEED COSTS
Transportation Phase I Environmental Services												
Task 1 - Wetland Delineation Report	24	0	0	0	54	40	4	24	146	\$14,506	\$440	\$14,946
Task 2 - Preliminary USACE and LCSMC Permitting	16	0	0	0	8	2	2	0	28	\$4,558	\$100	\$4,658
Task 3 - Preliminary Environmental Site Assessment (PESA)	12	4	12	44	0	0	16	0	88	\$8,900	\$800	\$9,700
Task 4 - Drain Tile Survey	24	0	0	0	0	0	0	0	24	\$5,400	\$7,860	\$13,260
Phase I Subtotal:	76	4	12	44	62	42	22	24	286	\$33,364	\$9,200	\$42,564
Transportation Phase II Environmental Services												
Task 5 - USACE and LCSMC Permit Submittal	16	0	0	0	20	8	8	0	52	\$6,412	\$250	\$6,662
Task 6 - USACE and LCSMC Permit Re-submittal	6	0	0	0	12	2	4	0	24	\$2,798	\$250	\$3,048
Phase II Subtotal:	22	0	0	0	32	10	12	0	76	\$9,210	\$500	\$9,710
TOTAL:	98	4	12	44	94	52	34	24	362	\$42,574	\$9,700	\$52,274

<sup>\*</sup> Mileage = \$440; Deliveries = \$400; Copies = \$500; EDR - \$500; Huddleston McBride = \$7,860.



	Task Order No.:	1
	Date:	March 26, 2012
	Cardno ENTRIX Project No.:	
iviltech Engineering Inc		

Civiltech Engineering, Inc. 450 East Devon Avenue, Suite 300 Itasca, IL 60143

Attn: Mary L. Young, P.E., PTOE

Director of Traffic, Environmental and Design Studies

# Fremont Center Road Extension, IL Route 60 to Peterson Road

This Task Order No. 1 is issued pursuant to our Agreement dated March 26, 2012 and unless otherwise specified herein, the performance of services hereunder and the payment therefore shall be subject to the terms and conditions of said Agreement. The services authorized hereunder are described below.

DESCRIPTION OF SERVICES:	Wetland Delineation Report		
BILLING PROCEDURES:	Monthly		
TOTAL COST (NOT TO EXCEED):	\$14,946 (Maximum Not-to-Exceed)		
ESTIMATE OF TIME SCHEDULE:	Starting Date: April 1, 2012		
	Completion Date:	December 31, 2012	
CARDNO ENTRIX'S REPRESENTATIVE:	Baron H. Stuedema	nn, P.E., PWS	
CONSULTANT'S REPRESENTATIVE:	Mary L. Young, P.E., PTOE		
	ACCEPTED:		
Cardno ENTRIX	Civiltech Engineeri	ng, Inc.	
Ву:	By:		
Title:	Title:		
Date:	Date:		



	Task Order No.:	2
	Date:	March 26, 2012
	Cardno ENTRIX Project No.:	
viltach Engineering Inc		

Civiltech Engineering, Inc. 450 East Devon Avenue, Suite 300 Itasca, IL 60143

Attn: Mary L. Young, P.E., PTOE

Director of Traffic, Environmental and Design Studies

# Fremont Center Road Extension, IL Route 60 to Peterson Road

This Task Order No. 2 is issued pursuant to our Agreement dated March 26, 2012 and unless otherwise specified herein, the performance of services hereunder and the payment therefore shall be subject to the terms and conditions of said Agreement. The services authorized hereunder are described below.

DESCRIPTION OF SERVICES:	Preliminary USACE and LCSMC Permitting	
BILLING PROCEDURES:	Monthly	
TOTAL COST (NOT TO EXCEED):	\$4,658 (Maximum Not-to-Exceed)	
ESTIMATE OF TIME SCHEDULE:	Starting Date: April 1, 2012	
	Completion Date: December 31, 2012	
CARDNO ENTRIX'S REPRESENTATIVE:	Baron H. Stuedemann, P.E., PWS	
CONSULTANT'S REPRESENTATIVE:	Mary L. Young, P.E., PTOE	
	ACCEPTED:	
Cardno ENTRIX	Civiltech Engineering, Inc.	
Ву:	_By:	
Title:	_Title:	
Date:	Date:	



	Task Order No.:	3	
	Date:	March 26, 2012	
	Cardno ENTRIX Project No.:		
iltach Engineering Inc			Ī

Civiltech Engineering, Inc. 450 East Devon Avenue, Suite 300 Itasca, IL 60143

Attn: Mary L. Young, P.E., PTOE

Director of Traffic, Environmental and Design Studies

# Fremont Center Road Extension, IL Route 60 to Peterson Road

This Task Order No. 3 is issued pursuant to our Agreement dated March 26, 2012 and unless otherwise specified herein, the performance of services hereunder and the payment therefore shall be subject to the terms and conditions of said Agreement. The services authorized hereunder are described below.

DESCRIPTION OF SERVICES:	Preliminary Environmental Site Assessment (PESA)		
BILLING PROCEDURES:	Monthly		
TOTAL COST (NOT TO EXCEED):	\$9,700 (Maximum Not-to-Exceed)		
ESTIMATE OF TIME SCHEDULE:	Starting Date: April 1, 2012		
	Completion Date:	December 31, 2012	
CARDNO ENTRIX'S REPRESENTATIVE:	Baron H. Stuedemann, P.E., PWS		
CONSULTANT'S REPRESENTATIVE:	Mary L. Young, P.E., PTOE		
	ACCEPTED:		
Cardno ENTRIX	Civiltech Engineering	Civiltech Engineering, Inc.	
Ву:	By:		
Title:	Title:		
Date:	Date:		



	Task Order No.:	4
	Date:	March 26, 2012
	Cardno ENTRIX Project No.:	
wiltoch Engineering Inc		

Civiltech Engineering, Inc. 450 East Devon Avenue, Suite 300 Itasca, IL 60143

Attn: Mary L. Young, P.E., PTOE

Director of Traffic, Environmental and Design Studies

# Fremont Center Road Extension, IL Route 60 to Peterson Road

This Task Order No. 4 is issued pursuant to our Agreement dated March 26, 2012 and unless otherwise specified herein, the performance of services hereunder and the payment therefore shall be subject to the terms and conditions of said Agreement. The services authorized hereunder are described below.

DESCRIPTION OF SERVICES:	Drain Tile Survey	
BILLING PROCEDURES:	Monthly	
TOTAL COST (NOT TO EXCEED):	\$13,260 (Maximum Not-to-Exceed)	
ESTIMATE OF TIME SCHEDULE:	Starting Date: April 1, 2012	
	Completion Date: December 31, 2012	
CARDNO ENTRIX'S REPRESENTATIVE:	Baron H. Stuedemann, P.E., PWS	
CONSULTANT'S REPRESENTATIVE:	Mary L. Young, P.E., PTOE	
	ACCEPTED:	
Cardno ENTRIX	Civiltech Engineering, Inc.	
Ву:	By:	
Title:	Title:	
Date:	Date:	



	Task Order No.:	5	
	Date:	March 26, 2012	
	Cardno ENTRIX Project No.:		
took Engineering Inc			

Civiltech Engineering, Inc. 450 East Devon Avenue, Suite 300 Itasca, IL 60143

Attn: Mary L. Young, P.E., PTOE

Director of Traffic, Environmental and Design Studies

# Fremont Center Road Extension, IL Route 60 to Peterson Road

This Task Order No. 5 is issued pursuant to our Agreement dated March 26, 2012 and unless otherwise specified herein, the performance of services hereunder and the payment therefore shall be subject to the terms and conditions of said Agreement. The services authorized hereunder are described below.

DESCRIPTION OF SERVICES:	USACE and LCSMC Permit Submittal		
BILLING PROCEDURES:	Monthly		
TOTAL COST (NOT TO EXCEED):	\$6,662 (Maximum Not-to-Exceed)		
ESTIMATE OF TIME SCHEDULE:	Starting Date: April 1, 2012		
	Completion Date: December 31, 2012		
CARDNO ENTRIX'S REPRESENTATIVE:	Baron H. Stuedemann, P.E., PWS		
CONSULTANT'S REPRESENTATIVE:	Mary L. Young, P.E., PTOE		
	ACCEPTED:		
Cardno ENTRIX	Civiltech Engineering, Inc.		
Ву:	By:		
Title:	Title:		
Date:	Date:		



	Task Order No.:	6
	Date:	March 26, 2012
	Cardno ENTRIX Project No.:	
ditanh Engineening Inc		

Civiltech Engineering, Inc. 450 East Devon Avenue, Suite 300 Itasca, IL 60143

Attn: Mary L. Young, P.E., PTOE

Director of Traffic, Environmental and Design Studies

# Fremont Center Road Extension, IL Route 60 to Peterson Road

This Task Order No. 6 is issued pursuant to our Agreement dated March 26, 2012 and unless otherwise specified herein, the performance of services hereunder and the payment therefore shall be subject to the terms and conditions of said Agreement. The services authorized hereunder are described below.

DESCRIPTION OF SERVICES:	USACE and LCSMC Permit Re-submittal	
BILLING PROCEDURES:	Monthly	
TOTAL COST (NOT TO EXCEED):	\$3,048 (Maximum Not-to-Exceed)	
ESTIMATE OF TIME SCHEDULE:	Starting Date:	April 1, 2012
	Completion Date:	December 31, 2012
CARDNO ENTRIX'S REPRESENTATIVE:	Baron H. Stuedemann, P.E., PWS	
CONSULTANT'S REPRESENTATIVE:	Mary L. Young, P.E., PTOE	
	ACCEPTED:	
Cardno ENTRIX	Civiltech Engineering, Inc.	
Ву:	By:	
Title:	Title:	
Date:	Date:	



# **Attachment D**

# **Santacruz Associates**

# PROPOSAL FOR LAND ACQUISITION SERVICES

Lake County

Civiltech Engineering



Freemont Center Road
Extension

from IL60 to Peterson Road



2650 Valor Drive Glenview, IL 60026 847.251.5800 1

## **EXECUTIVE SUMMARY**

Having extensive experience with right of way projects, we understand the importance of keeping on schedule. On-time lettings gives Lake County of Division of Transportation, the Local Public Agency ("LPA") the best use of its resources and strengthens the efficiencies in the implementation of its roadway improvement program. To achieve your goals, it is critical that your land acquisition consultant understands the importance and addresses three critical issues in your acquisition of right of way:

- Deliver the right of way on-time to meet the letting
- Manage the acquisition risks, including the cost of condemnation litigation
- Compliance with the Uniform Relocation Assistance and Real Property Act of 1970, as amended (Uniform Act), IDOT land acquisition policies and procedures and FWHA policies.

CRITICAL ISSUE 1: DELIVER THE RIGHT-OF-WAY ON-TIME TO MEET LETTING

Delivery of right of way on-time keeps the project on its letting schedule. We understand that nothing is more important to the LPA. We also know that keeping the land acquisition on-time and within budget is a measurement of success for the LPA. When a project does not meet its letting schedule, we know it can impact the budget for the LPA, causing scheduling conflicts with potential contractors and also affect other economic factors which govern the delivery of the overall roadway improvement program for the LPA.

Santacruz Associates is an industry leading right of way professional organization with years of experience working on land acquisition projects with the understanding of what needs to be done to complete an acquisition on time.

Santacruz Associates will work with the staff for the LPA and/or Civiltech Engineering, Engineer for the LPA, ("Consultant") to develop a land acquisition plan for the extension of Freemont Center Road from IL Route 60 to Peterson Road (the "Project") to assure that the goals are met. With years of right of way acquisition work, we have a large database of real estate representatives for corporate acquisitions to cut down the time spent in the initial steps of locating the real estate representative for each property.

These efficiencies lead to ways in which we minimize our time with an acquisition and translate to your project staying on schedule.

# CRITICAL ISSUE 2: MANAGE THE ACOUISITION RISKS

Equally important as the scheduled letting is the acquisition budget for the Project. Cost overruns can jeopardize a project from moving forward. Because real estate costs can represent a significant portion of the budget for a transportation project, we will suggest ways to minimize impacts and reduce costs in challenging acquisitions. We will also work with the LPA to minimize the condemnation referrals that impact the budget for this Project. By the same token, we will quickly identify parcels in the very beginning of the process that have title issues that can only be resolved through condemnation.

Through experience, we know that a portion of the parcels will need to be acquired through condemnation. As such, your land acquisition consultant needs to have knowledge of the legal requirements necessary to position an agency for condemnation. We possess that knowledge and have experience providing "expert witness" testimony in these matters.

We are skilled right of way professionals with a vast background in real estate and civil engineering with respect to transportation projects which gives us the ability to recognize issues and resolve them <u>before</u> they create delays.

# CRITICAL ISSUE 3: COMPLIANCE WITH GOVERNMENT REGULATIONS

All land acquisition services must be performed in accordance with the Uniform Relocation Assistance and Real Property Act of 1970, as amended (Uniform Act). In addition, we are familiar with IDOT's land acquisition guidelines, policies and procedures.

#### WHY SANTACRUZ ASSOCIATES?

As you review our proposal, you will see that Santacruz Associates has the versatility, experience and qualifications to deliver the land acquisition needs for your project. What sets us apart is:

- Years of successful on-time delivery of right of way land acquisition services to various other agencies
- Diverse set of real estate acquisition disciplines including backgrounds in law and civil engineering
- Title review experience, including familiarity with all types of recorded documents affecting real estate and knowledge on how to the clear title
- Experience in reviewing plats and legal descriptions, as well as an ability to review and understand roadway construction plans
- Expertise with the Uniform Relocation Assistance and Real Property Act of 1970, as amended (Uniform Act), Illinois Eminent Domain Act (735 ILCS 30), IDOT Land Acquisition Guidelines.
- Familiarity with IDOT policies and procedures related to land acquisition and appraisals.

We provide extensive experience complying with federal and state laws and maximizing the team's knowledge of the land acquisition policies of IDOT.

ADDITIONAL COMPONENT OF OUR PROPOSAL: BEP UTILIZATION

Santacruz Associates is a BEP with Central Management Services, a DBE with IDOT and an MBE with Cook County and the City of Chicago.

#### **SUMMARY**

With a long history of successful delivery of a variety of right of way projects on-time, within budget and to our client's satisfaction, we look forward to the opportunity to assist the LPA with its land acquisition needs

#### COMPENSATION

Santacruz Associates shall be entitled to the compensation as shown on the attached schedule. Our cost proposal, based on **three (3)** projected parcels of right-of-way, is as follows:

#### <u>NEGOTIATIONS:</u> \$7,200.00.

As directed, Santacruz Associates shall invoice the LPA or Consultant for any fees and charges related to the acquisitions including, without limitation, (i) the cost of the later date title commitments, (ii) the cost of title insurance policies obtained on the parcels to be acquired, (iii) the cost of recording any necessary

documents to complete the conveyance and obtain clear title, (iv) lender's fees related to the processing of any partial releases needed to provide clear title, and (v) land trustee processing fees. Santacruz Associates shall include \$200.00 per parcel for these charges. Santacruz Associates shall pay any such fees and charges in excess of the \$200.00 per parcel allowance for which Santacruz Associates shall be entitled to additional compensation in the amount of any such payments pursuant to a separate work order issued.

Based on the projected total number of parcels of right-of-way to be acquired for the Project, the land acquisition negotiation services provided herein are offered a cost not to exceed of \$7,800.00 as follows:

Land Acquisition Services \$7,200.00

Direct Billable Expenses \$600.00

2

## TECHNICAL APPROACH

Santacruz Associates shall perform all necessary services in the preparation of appraisals and review appraisals and the negotiation of the acquisition of necessary properties required for the completion of the Project. All services shall be performed at the direction of the LPA and Consultant in accordance with the policies and procedures of IDOT, as applicable, the Federal Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 ("Uniform Act"), as amended (49 CFR Part 24), the Illinois Eminent Domain Act (735 ILCS 30) ("Eminent Domain Act") and the Illinois Code of Civil Procedure ("Code of Civil Procedure").

Santacruz Associates will review the highway construction plans with the LPA and/or the Consultant to understand the nature and purpose of the project.

Santacruz Associates agrees to perform the services as set forth herein as well as furnish and deliver to the LPA the final reports accompanied by all necessary documents needed for recordation and/or necessary for eminent domain proceedings. The process described in this section has been the roadmap to many successful right of way projects for Santacruz Associates helping us help you keep your projects on-time and within budget.

# LAND ACQUISITION CRITICAL PATH STEPS - "OUR ROAD MAP"

#### Task 1: Notice to Proceed

Our services start within one week (or sooner, if requested) of an authorization to proceed from the LPA.

#### Task 2: Kick-off Meeting

Santacruz Associates will meet with the LPA and/or Consultant to discuss the Project, identify issues and develop any necessary strategies to assure the timely completion of the Project.

# Task 3: Delivery and Review of Project Information

The LPA or Consultant will provide Santacruz Associates with plats of highway, legal descriptions, the most recent title commitments and any other pertinent information regarding the property owner for each parcel assigned for acquisition. In addition, the LPA or Consultant will also provide us with a set of project plans, including, (i) plan and profile, (ii) drainage and utilities, (iii) pavement markings and (iv) cross sections.

#### Task 4: Negotiation and Acquisition

All negotiations and acquisition services shall be provided by Santacruz Associates after approval by the LPA of the amount of just compensation to be offered to the property owner.

The Negotiator will not have any authority to determine administrative settlements. The Negotiator will consult with the LPA for approval of any counter offers and upon acceptance by the LPA of any such counter offer, Santacruz Associates will prepare the necessary documentation for administrative settlement.

Prior to the start of negotiations, the Negotiator will review the plats of highway and appraisals for each parcel before the start of negotiations with a property owner to understand the valuation and impact to the property. Santacruz Associates will also inspect the title commitment provided for each parcel to determine the liens and encumbrances that will need to be addressed in order to complete the acquisition process for the Authority. Santacruz Associates will direct any questions to the LPA or Consultant resulting from its review of the plans, plats, appraisals and title commitments so that Santacruz Associates is prepared for any issues raised by the property owner during negotiations.

Before contacting the owner of a parcel, Santacruz Associates will prepare and send the introductory letter to the property owner on the LPA's letterhead. This letter will provide a general statement of the Project, identify the property and the legal property owner, and briefly state the right of requirements necessary from the parcel. This letter shall also contain contact information for Santacruz Associates and a representative of the LPA.

Santacruz Associates will prepare an offer package for presentation to the owner at the first meeting. The offer package shall contain the Basis for Computing Total Approved Compensation and Offer to Purchase (in the format approved by IDOT), a copy of the plat of highway with the acquisition areas highlighted and a copy of the legal descriptions of the parcels to be acquired. If, after repeated efforts to contact the property owner to schedule a meeting to present the offer, Santacruz Associates is unable to make contact with the property owner, or if the property owner is located out of town, or at the request of the property owner to have the offer package mailed, Santacruz Associates will send the offer package by certified mail so that a receipt of delivery can be established.

Santacruz Associates will personally contact the property owner a minimum of three times before making a determination that the acquisition of the parcel cannot be successfully negotiated. In most cases, Santacruz Associates will exceed the minimum number of contacts in an attempt to make all reasonable efforts to reach a settlement before recommending that the LPA commence condemnation proceedings. All contacts and efforts to make contact with the property owner shall be documented in the negotiator's report maintained by Santacruz Associates for each parcel.

If, during its discussions with the property owner, errors in the plans are discovered or the property owner requests design changes, Santacruz Associates will immediately notify LPA or Consultant with this information. At any time during negotiations for situations involving design changes, errors in plans or for any other reason, if requested by LPA or Consultant, Santacruz

Associates will cease negotiations on certain parcels until corrected information or further instruction is provided to Santacruz Associates.

Upon successful negotiations with the property owner, Santacruz Associates will prepare all necessary conveyance documents in the forms provided by and approved by IDOT in order to complete the acquisition and obtain title approval for the property. Santacruz Associates will submit parcel file completed with original conveyance documents, documents any necessary for title clearance, the Negotiator's Log documenting all negotiation activities, copies of all correspondence with the property owner, title commitments, plats, and all other documentation as required by the LPA.

In the event that Santacruz Associates, after having made every reasonable effort to contact and negotiate with the owner of a parcel, is unable to obtain a settlement on the approved appraisal amount, Santacruz Associates shall prepare and submit to the LPA a completed parcel file with its recommendation to acquire the parcel by means of condemnation. In addition, the file will include the Negotiator's Log, copies of all correspondence with the property owner, title commitments, plats, and all other documentation as required by the LPA.

We understand that appearances in court and/or pretrial conferences, which may include depositions, and preparation for litigation or pretrial conferences may be required by the LPA so that it may complete the acquisition of the property through condemnation. In such case, at the request of the LPA or its trial counsel, we shall make any such appearances or complete such preparation work in order to assist with this process. Such requests will be pursuant to a separate work order.

#### **PERSONNEL**

The experienced and talented team of right of way professionals at Santacruz Associates will be led by J. Steve Santacruz. Steve has worked on thousands of acquisition parcels for ISTHA, IDOT, Cook, Kane, Lake, and Will Counties. He has also worked for numerous township and municipalities. Steve has a reputation in the right of community of being able to handle the most complex of land acquisition transactions.

The internal support team members for Santacruz Associates include Robin Weber, a real estate paralegal with over twenty years experience in closing residential and commercial real estate transactions, and Jonathan Abplanalp, an negotiator working towards approval as a District 1 fee negotiator.

#### PRIOR EXPERIENCE

Santacruz Associates was founded in 1992 and has grown to be one of the most dependable right of way negotiation firms in IDOT's District 1. Since it opened, Santacruz Associates has been providing comprehensive right of way solutions, including negotiation activities and coordination of the valuations of parcels for various public agencies. Having developed its own proprietary database overlay, we have developed great efficiencies that allow us to handle hundreds of parcels at one time keeping deadlines organized for each of our different clients.

We bring an array of services and broad disciplines in real estate which give us a distinct advantage in handling even the most complex of your land acquisition projects.

Santacruz Associates has delivered real estate solutions for its public agencies balancing risk management and letting dates on some of the largest and most intricate projects in the State.

# 3 EXHIBITS

a. Pricing Schedule

# Compensation for Services

#### **Negotiation Services**

Negotiation and acquisition services for Right of Way, including, without limitation, documentation of conveyance of property interest

\$2,400.00

#### Witness Services

Rate for each ½ day in pretrial conference or in court for Negotiator \$1,000.00

Hourly rate for consultation not otherwise specifically provided for herein \$250.00

#### Title Services (if applicable)

Later date commitment \$50.00 + Administrative fee \$25.00

Title insurance policies \$75.00

+ Additional costs of \$3.50 per thousand

+ Administrative fee \$25.00

Recording of Documents – In addition to actual recording costs

+ Administrative fee \$25.00

Copies of recorded documents – In addition to actual copying costs

+ Research fee \$50.00 + Administrative fee \$25.00

