Munic Lake (				L 0 C	(F)	linois Dep	artment	CO	Name Bloom Compan	ies, LLC	
Towns	hip			C A L	(A)	f Transpo	rtation	N S U	Address 600 W. Fulton Suite 701		
	Col	ınty – Division tation	of	A G E N		ninary Eng vices Agre For		L T A N	City Chicago, IL 606	561	
Section 11-00		)-03-GM		CY	Non-M	lotor Fuel T	ax Funds	Т	State IL		
Agen impro	cy ( ven visi	LA) and Consument of the abounders	ve SECTION.  Department of	ER) Non Tra	and covers c -Motor Fuel insportation, I	Tax Funds, nereinafter d	ssional engineer	ring \ <del>by</del> \RTN	, 2010 between	ection with <del>is</del> , under	nie Aenerai
					Sec	ction Descr	iption				
Name	· _	Ela Road and	Lewis Avenue	Reta	ining Wall Ma	aintenance					
Route		Ela Road	Length		Mi.	174	FT		(Structure No.	NA	
Route	•	Lewis Ave	Length		Mi.	90	FT		(Structure No.	NA	)
Termi Descr Existi	iptic	on:			eeded. Repa		t, drainage, gua		e north of IL 173		
	_	neer Agrees,			,						
1. To	ope	rform or be reased improvem	sponsible for th ents herein bef	e pe	rformance of described, ar	f the followir nd checked	g engineering s below:	ervi	ces for the LA, in	connecti	on with the
a.	$\boxtimes$								roadway plans.		
b.		of detailed br	ridge plans.						and flood historie		
C.	$\boxtimes$	analyses thei	reof as may be	reat	ured to furnis	sh sufficient	data for the des	ign i	cluding borings a of the proposed ents of the DEPA	mpioren	IGHL.
		Make or caus furnish suffici	se to be made sient data for the	such e des	traffic studie	s and count oposed imp	s and special in rovement.	ters	ection studies as	may be	required to
		of Natural Re Utility plan ar Commission	esources-Office ad-locations, an with permit prep	of V d Ra parat	<del>Vater Resour</del> a <del>ilroad Cross</del> tion	<del>rces Permit,</del> i <del>ing work ag</del>	Bridge waterwa reements. Assi	<del>iy sk</del> st <b>L</b> o	ment Commissio etch, and/or Cho uke County Stori	nwater M	lanagement
f.		and high wat	er effects on ro	adw	ay overflows	and bridge	approacnes.		ic analysis of bri		
		with one (1) of documents, it reproduction.	opy of each doo f required, shal	tume   be 1	e <b>nt in both h</b> e furnished to t	ardcopy and the LA by th	e ENGIN <b>E</b> ER a	n <b>as</b> . t the	d estimates of co Additional copie ENGINEER's a	ctual cos	t for
h.		easement an as required.	d borrow pit an	d ch	annel change	e agreemen	ts including prin	its o	ay dedications, of the correspond	constructi ing plats	on and staking
į.		Assist the LA	in the tabulation	on ar	nd interpretat	ion of the co	ontractors' prop	osal	S		
		•			Page	1 of 4				BLR 05	510 (Rev. 11/06)

	j. Prepare the necessary environmental documents in accordance with the procedures adopted by DEPARTMENT's Bureau of Local Roads & Streets.	the
	k. Prepare the Project Development Report when required by the DEPARTMENT.	
	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 Albe in accordance with current standard specifications and policies of the LA of the DEPARTMENT. It is that all such reports, plats, plans and drafts shall, before being finally accepted, be subject to approval be DEPARTMENT.	
3.	To attend conferences at any reasonable time when requested to do so by representatives of the LA or	the Department.
4.	In the event plans or surveys are found to be in error during construction of the SECTION and revisions survey corrections are necessary, the ENGINEER agrees that the ENGINEER will perform such work w the LA, even though final payment has been received by the ENGINEER. The ENGINEER shall give in to these changes so there will be a minimum delay to the CONTRACTOR.	of the plans or vithout expense to nmediate attention
5.	That basic survey notes and sketches, charts, computations and other data prepared or obtained by the pursuant to this AGREEMENT will be made available, upon request, to the LA or the DEPARTMENT wi without restriction or limitations as to their use.	
3.	That all plans and other documents furnished by the ENGINEER pursuant to this AGREEMENT will be ENGINEER and will show the ENGINEER's professional seal where such is required by law.	endorsed by the
Th	ne LA Agrees,	
1.	To pay the ENGINEER as compensation for all services rendered in accordance with this AGREEMEN 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 the DEPARTMENT based on the following schedule:	it as approved by
	Schedule for Percentages Based on Awarded Contract Cost	
	Awarded Cost Percentage Fees Under \$50,000	(see note) %
		% %
		70
	Note: Not necessarily a percentage. Could use per diem, cost-plus or lump sum.	i de la companya de l
2.	To pay for all services rendered in accordance with this AGREEMENT at the actual cost of performing 175% percent to cover profit, overhead and readiness to serve - "actual cost" being defined as material insurance, social security and retirement deductions. Traveling and other out-of-pocket expenses will be the ENGINEER at the ENGINEER's actual cost. Subject to the approval of the LA, the ENGINEER material to the services provided in section 1 of the ENGINEER AGREES. If the ENGINEER subject all or part is the ENGINEER plus as additional service charge of up to five (5) percent.	be reimbursed to be sublet all or part

will pay the cost to the ENGINEER plus an additional service charge of up to five (5) p

"Cost to Engineer" to be verified by furnishing the LA and the DEPARTMENT copies of invoices from the party doing the 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 the work performed.

The Total Not-to-Exceed Contract Amount shall be \$68,000

- 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 175 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 175 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,

- 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.
- 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.

IN WITNESS WHEREOF, the parties have caused the shall be considered as an original by their duly author	e AGRE	EMENT to be executed in triplicate counterparts, each of which cers.
Executed by the LA:		
		County of Lake of the (Municipality/Township/County)
ATTEST:		State of Illinois, acting by and through its
Ву		County Board
Lake County	Clerk	Ву
(Seal)		Title Chairman of the County Board
		RECOMMENDED FOR EXECUTION
		Martin G. Buehler, P.E. Director of Transportation/County Engineer Lake County
Executed by the ENGINEER:		Bloom Companies, LLC
		Engineering Firm 600 W. Fulton Street, Ste. 701
ATTEST:	•	Engineering Firm 600 W. Fulton Street, Ste. 701 Street Address Chicago, IL 60661
By arry Herser, CPA Title Controller		By Mether Pharmyl
Title Controller		Title President

# Ela Road and Lewis Avenue Retaining Wall Maintenance - Phase II

The following scope of services has been developed from the Final Scoping Report dated October 13, 2010 developed by the Lake County Division of Transportation. One notable modification is the Division of Transportation has decided to secure the services of the Lake County Stormwater Management Commission to perform wetland delineation and to lead up the effort of securing 404 permits.

Also, the possibility of a culvert repair was noted. As we have only limited information on this, for the purpose of scope and budget, we are assuming this may take the form of a slip liner or minor headwall repairs with no additional analysis or permitting. This scope item will be refined after our initial coordination and field review. If more extensive work is required, we will develop a course of action with the County.

## **SCOPE OF SERVICES**

The proposed scope of services follows:

1. Coordination and Field Review - Specific tasks shall include:

a. Attend a kick-off strategy meeting with County staff and obtain any relevant outstanding data or plans the County may have. Provide minutes of the meeting with a record of discussions and circulate to all participants.

b. Field review and photos of project area. This will cover the condition of the retaining wall, condition of adjoining pavement and shoulders, condition of guardrail, existing drainage structures and conditions, existing other features that may affect design (such as speed limits, need for other repairs), lighting, etc.

c. Utility Coordination – As the beginning of this project we will contact JULIE and other observed utilities to gather location information and provide early warning of the project.

- 2. Survey Topographic (by Dynasty) Conduct a detailed topographic survey as necessary for the planning and design of the project in accordance with LCDOT Survey Procedures Attachment A. This does not include ROW determination; ROW limits and adjoining property owner data will be provided by the County. To establish limits of guardrail need, grading limits, earthwork quantities, and factors affecting maintenance of traffic, we are proposing 900' of topo survey with 50' cross-sections 60' either side of the centerline for Ela Road. For Lewis Avenue we are proposing 600' of topo survey, 50' cross-sections 60' either side of the centerline. The survey will establish horizontal and vertical control sufficient to allow construction of the proposed repairs.
- 3. Geotechnical Investigation This task will define the subsurface conditions and establish the foundation parameters to allow construction of the proposed repairs. These factors will include length of embedment for sheet pile or soldier pile walls, and allowable bearing strength if spread footings are considered. Specific tasks shall include:

a. Site, initiate and monitor soil borings. At Ela Road we are proposing 4 borings, each to 25' or deeper to competent soil strata, and at Lewis Avenue we are

proposing 2 borings of the same depth. All borings will be performed without

requiring detours.

b. Determine soil and pavement characteristics through observation, field tests and laboratory tests. The field tests will consist of SPT, Rimac and Pocket Penetrometer tests. The laboratory tests will consist of Moisture Content, Atterberg Limit, and Grain Size distribution tests w/hydrometer as approporiate.

c. Produce soil boring logs and profiles along the retaining walls.

- d. Subgrade recommendations, including locate and delineate approximate limits and depths of unsuitable materials within the limits of construction and proposed remediation.
- e. Prepare a separate Geotechnical Report for Ela Road and Lewis Avenue Retaining Walls. The investigation and report will be prepared using IDOT standards as a guide.
- 4. Preparation of Type Size & Location Drawings- We will prepare TS & L drawings for repairs at each location. We will consider aesthetics, cost, site conditions, overhead and underground utilities, environmental factors and constructability (e.g., impact to traffic) in the development of the TS&L and provide documentation of that with our submittal. While the TS &L drawings will conform to general IDOT requirements, they will reviewed only by the County. Once the County has reviewed the TS &L we are prepared to meet with the County to discuss and resolve comments and then to proceed to design.
- 5. Permitting As noted above, Lake County Stormwater Management Commission will be the lead on preparation for 404 permits, including wetland delineations, or other Stormwater related permits. We will prepare any necessary exhibits the County needs to secure permits, including showing the delineated wetland limits on proposed plans and estimates of quantities for permitting. We will prepare the permit for endangered and threatened species thru ECOCAT.

While Cultural Permitting was noted in the Scoping Report, the project as proposed involves no right-of-way, easements or even adjacent structures. We anticipate no need for Cultural Resources permitting through IDOT. Likewise, we anticipate no need for Special Waste permitting. During our field reviews or subsequent activities if we note anything that would invalidate these assumptions we will notify the County to discuss and develop an appropriate course of action.

- 6. Plans Specifications and Estimates With the wall type agreed upon and permit issues defined, we will proceed to prepare preliminary and final PS & E. Separate PS&E will be provided for Ela Road and Lewis Avenue. Preliminary PS & E will include all sheets in sufficient detail to establish all design parameters, an approximate cost estimate and list of required special provisions and to allow review by the County. The electronic copies of the final PS&E's will be provided in the format as described on attachment B "Electronic Bid Package Format and Submittal". The final plans will be one hard copy of the total bid package and an electronic copy. At this time our list of sheets for each projects includes:
  - a. Cover Sheet (1)

- b. General Notes and Summary of Quantities (1)
- c. Schedule of Quantities (1)
- d. Boring Log (1)
- e. Alignment, Ties & Control (1)
- f. Traffic Control (1)
- g. Erosion Control (1)
- h. Plan & Profile (1)
- i. Plan and Elevation (1 per wall)
- j. Wall Section (1)
- k. Miscellaneous Project Specific Details (1)
- l. Cross-Sections (1)
- m. IDOT and Lake County Standard and Details (as needed)
- 7. <u>Administration and Management</u> We will monitor our progress to ensure that we meet all County deadlines and maintain the quality of our deliverable. We will provide written monthly progress reports to the County summarizing the status of the project as well as budgetary issues.

# SURVEY PROCEDURES (Revised 4/21/08)

### **UNITS-COORDINATES**

The CONSULTANT will conduct all surveying, stationing, and preparation of required plans using English units of measure and the U.S. Survey Foot. State Plane Coordinates – Illinois East Zone, NAD 83 shall be obtained for all alignment and survey control points.

### HORIZONTAL ALIGNMENT

Unless otherwise specified in the services contract, the CONSULTANT is to provide the horizontal alignment. The CONSULTANT'S SURVEYOR will try to re-establish the original horizontal alignment as shown on the recorded R.O.W. plats. The CONSULTANT shall contact LCDOT's Land Surveyor to obtain R.O.W. plats and field notes and benchmarks before establishing the horizontal alignment and stationing. Notify LCDOT's Surveyor immediately if the alignment cannot be reproduced or if in the CONSULTANT'S opinion the existing alignment information is in error.

The CONSULTANT'S SURVEYOR, prior to construction, shall stake the PCs, PIs, PTs, and POTs so that LCDOT's Surveyor can locate them later for construction staking. The CONSULTANT'S SURVEYOR will provide four reference ties to all U.S. Public Land-Survey Monuments located within the construction limits. The reference points should be located outside of the anticipated construction limits if practical, so that they can be used after construction to replace the monuments. The CONSULTANT shall record Monument Records for all Section and Quarter Section corners set or found within the construction limits.

The CONSULTANT will mark all 100-foot interval station locations on the survey base line for construction, when on paved surfaces with a P.K. or Mag nail and spray paint. The baseline for relocated alignments when off pavement will be marked at 100-foot intervals with iron rods. The rods shall be set one foot below the surface in farmed land. The CONSULTANT will advise the County of any pavement alignment variations. In cases where the proposed centerline of construction or survey baseline is different from the existing centerline of R.O.W., both shall be shown and the relationship between them will be indicated on the Alignment and Tie sheet.

An Alignment and Tie Sheet shall be provided as part of the final product. The Alignment and Tie sheet shall be signed and sealed by the CONSULTANT'S SURVEYOR. The station, offset and coordinates of the alignment points and survey control points shall be shown. It shall be noted whether the coordinates, stationing and distances are State Plane grid or ground surface. In the case that the information shown is ground surface distances, the State Plane Coordinates still must also be shown for all alignment points and survey control points in order that they can be located with GPS and so that the project can be referenced into our GIS maps. The coordinates may be

shown in a separate table. In either case the grid (combination) factor must also be shown.

### **VERTICAL ALIGNMENT**

Vertical control for the project shall be based on NGVD 29 or NAVD 88 benchmarks. Indicate on the plans which Datum is used. NGVD 29 Lake County Mapping Benchmarks are preferred (<a href="http://gis.lakeco.org/maps/">http://gis.lakeco.org/maps/</a>). LCDOT's Land Surveyor may also be contacted for benchmarks that may be in the area. The controlling benchmarks and the site benchmarks shall be described on the plans. Site benchmarks are to be located at less than 1000-foot intervals with a minimum of two (2) on each project.

All benchmarks will be located on stable objects. LCDOT prefers these objects to be outside the construction site. Some acceptable benchmark examples are, spikes in poles, bolts on fire hydrant rings, and concrete foundations. LCDOT's surveyor can be contacted for benchmarks that may be in the area.

# **TOPOGRAPHY**

The CONSULTANT shall cut cross sections at 50-foot intervals in urban areas (100-foot intervals in rural areas) and at all points needing clarification. The cross section interval should be defined in the engineering services contract.

Full cross-section profiles will be taken at all cross streets, alleys, cross road culverts, and entrances (commercial, private and field). Half cross-sections will not be accepted because they skew the computer terrain model.

The CONSULTANT will locate and identify all trees (6 inches in diameter or greater) within the area either side of the centerline, defined by the proposed ROW or construction limits (whichever is greater) plus an additional 10 feet. The trees shall be identified by species and size. The trees shall be located by station/offset and have a ground elevation.

Streams, tributaries or major drainage ditches located within a lateral distance of 250 feet from centerline (upstream and downstream) shall be surveyed. Alignment, profiles and cross sections will be taken. The stream width shall be shown as the distance measured between the tops of the stream banks. Profile elevations along the bottom of the watercourse shall be taken at a minimum of 50-foot intervals.

The survey shall extend a minimum of 200 feet beyond the roadway construction limits. Cross sections shall be taken a minimum of 10 feet beyond the proposed ROW or construction limits (whichever is greater). Cross sections will extend 30 feet beyond the proposed R.O.W. at entrances 150 feet at minor side roads.

The collected survey data for the existing topography shall have a minimum of 3<sup>rd</sup> Order Accuracy horizontally with readings to the nearest 0.1 feet for vertical on gravel or ground and readings to the nearest 0.01 feet for vertical on all other surfaces.

# RAILROAD INSURANCE

The CONSULTANT will comply with the railroad's requirements when conducting a survey on the railroad's ROW. Usually this includes obtaining a permit, paying a fee, obtaining Railroad Protective Liability Insurance, notification of a flagman to be present near the rails during the survey operations and any other requirements of the railroad. The CONSULTANT is responsible for all of the foregoing requirements.

# **DELIVERABLES**

- I. Copies from the CONSULTANT'S field books, showing benchmarks, level circuits, & structure details, such as size and inverts etc.
- II. Base Drawing at 1:1. All the topographic information shall be plotted electronically. The data shall be recorded in a <a href="MICROSTATION.DGN">MICROSTATION.DGN</a> format. All line work defining different elements shall be completed using IDOT LCDOT'S CELL and LINE LIBRARIES (see attachment). ASCII files containing all point information as described below shall be included. Backup CD's or diskettes shall be provided.
- III. SUMMARY SHEETS showing:
  - (1) Point number
  - (2) Point identification by code and description
  - (3) Station
  - (4) Distance offset (right or left)
  - (5) Northing and Easting coordinate values
  - (6) "Z" elevations
- \* Four computer printouts shall be provided:
  - 1. List of points referenced by stations.
  - 2. List of points referenced by sequential point numbering.
  - 3. List of points sorted by point identification.
  - 4. "ID" acronym explanation sheets.

An example showing the different printouts is shown on the next page.

# (LCDOT'S IDENTIFICATION CODES SHALL BE USED – see attachment)

TYPICAL PRIN	IT-OUT FORM (EAI	MPLE)						
BYF	OINT NUMBERS							
POINT NUMBER	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DEFINITION CODE (1)	DESCRIPTION PD	MATERIAL CODE (1)
3331	104+23.306	-45.869	10313.993	20392.255	207.495	491.10	10 INCH TREE PINE	0
3332	104+50.475	-49.159	10323.810	20416.938	207.743	668	PAVEMENT EDGE	759
3333	104+69.987	-44.270	10261.604	20452.162	207.126	310	FL W/GRATE	774
3334	103+93.865	+40.590	10297,779	20365.781	207.378	304.15	6 INCH TILE	836
BY S	TATION		<u> </u>			L		
STATION	POINT NUMBER	OFFSET	NORTHING	EASTING	ELEVATION	DEFINITION CODE (1)	DESCRIPTION PD	MATERIAL CODE (1)
103+93.865	3334	+40.590	10297.779	20365.781	207.378	304.15	6 INCH TILE	836
104+23.306	3331	-45.869	10313.993	20392.255	207.495	491.10	10 INCHTREE PINE	0
104+50.475	3332	-49.159	10323.810	20416.938	207.743	668	PAVEMENT EDGE	759
104+69.987	3333	-44.270	10261.604	20452.162	207.126	310	FL W/GRATE	774
BYP	OINT DESCRIPTIO	N						
POINT NUMBER	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DEFINITION CODE (1)	DESCRIPTION PD	MATERIAL CODE (1)
3331	104+23.306	+40.590	10297.779	20365.781	207.378	304.15	6 INCH TREE PINE	0
3336	104+50.475	-45.869	10313.993	20392.255	207.495	491.10	10 INCHTREE PINE	.0
2323	104+69.987	-49.159	10323.810	20416.938	207.743	668	6 INCH TREE OAK	0
2565	103+93.865	-44.270	10261.604	20452,162	207.126	310	5 INCH TREE OAK	0

<sup>(1)</sup> LCDOT CODES

LCDOT's Land Surveyor:

Steve Heuer, PLS 600 West Winchester Road Libertyville, IL 60048 (847) 377-7488

# Attachment B ELECTRONIC BID PACKAGE FORMAT AND SUBMITTAL

# **ELECTRONIC BID PACKAGE FORMAT AND SUBMITTAL**

To facilitate posting projects to the LCDOT web site, consultants shall provide electronic copies of the bid documents as follows:

- 1. A .pdf file of each individual plan sheet.
  - .a. Each individual sheet file shall be printed to a .pdf file. <u>Only sheets that require signatures and/or seals may be scanned.</u> All plan sheets shall be printed to scale as full size 22" x 34" (ANSI D). This facilitates the printing of half-size (11" x 17") sheets to scale.
  - b. The files shall be named as:
    - i. A-ZZZZ\$Sheet\_XXXX\_Title.pdf
    - ii. A-ZZZZZ is the LCDOT CPMS Pin # assigned to the project. The "XXXX" in the file name shall be a sequential 4 digit number beginning at 0001. The numbers shall include all preceding 0's. The 0's are necessary to align the individual files in order on the web site.
    - iii. For example the cover sheet of the project (PIN # B-00300) would be B-00300\$Sheet\_0001\_Cover\_Sheet.pdf.
- 2. A .pdf file of the entire plan set.
  - a. The individual plan sheets shall be combined into a single file.
  - b. The file shall be named: A-ZZZZ\$Fuil Plan Set.pdf.
  - A scanned copy of the cover sheet with County Engineer's signature will be added by LCDOT.
- 3. A compiled .pdf file of the final contract book (specifications).
  - a. The file shall be compiled from individual documents (word processing, spreadsheets, design standards/details, etc.) printed to .pdf files and individual files already in .pdf format. Only documents that cannot be transmitted electronically or that require signatures and/or seals may be scanned.
  - b. The file shall be named: A-ZZZZSContract Specifications.pdf.
  - c. A scanned copy of the cover page with County Engineer's signature will be added by LCDOT.
- 4. If a soils report for the project has been prepared, the consultant shall include a .pdf file named: A-ZZZZ\$Soils\_Report.pdf.

The consultant shall provide the above files on a CD. LCDOT does not have an ftp site. If the consultant has an ftp site arrangements may be made to transfer the files.

Illnois Department of Transportation

Bloom Companies, LLC FIRM NAME PRIME/SUPPLEMENT

CONTRACT TERM START DATE RAISE DATE

8 11/1/2010 1/1/2011

10/18/10 DATE PTB NO.

Payroll Escalation Table Fixed Raises New Formula

OVERHEAD RATE COMPLEXITY FACTOR % OF RAISE

3.00%

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25.00% 1.0225 11/1/2010

77.25%

The total escalation for this project would be:

2.25%

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# **Payroll Rates**

FIRM NAME PRIME/SUPPLEMENT PTB NO.	Bloom Companies, LLC	DATE	10/18/10
	ESCALATION FACTOR	2.25%	

	1	
CLASSIFICATION	CURRENT RATE	ESCALATED RATE
Sr. Associate	\$52.92	\$54.11
Sr. Engineer	, \$39.87	\$40.77
Project Engineer	\$30.08	\$30.76
Sr. Technician	\$22.85	\$23,36
		\$0.00
		\$0.00
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	•	\$0.00
		\$0.00

DIRECT COSTS
Wall Repairs - Ela Road and Lewis Avenue

(All direct costs will be billed at actual costs)

	No. of Trips	\$55/ trip, including tolls	Printing	Delivery	Driller Costs & Traffic Control	Survey (by Dynasty)	Total Out of House Direct
Ela Road  1. Coordination & Data Collection	2	\$110.00					Costs
2. Survey - Topographic & Property	~	\$55.00				\$7.434.00	
3. Geotechnical Investigation	2	\$110.00		\$30.00	\$5,000,00	00.6	
4. TS &L	₹**	\$55.00		\$30.00			\$35 U
5. Permitting	<b>7-</b>	\$55.00		\$30.00			00°000
6. PS&E	-	\$55.00	\$150.00	\$50.00			\$255 OO
7. Admin & Management	*	\$55.00		\$30.00			\$85.00
				-			
Lewis Avenue 1. Coordination & Data Collection	^	27,000					
	1	3 3 3 3	*		-		\$110.00
2. Survey - Topographic & Property	<del></del>	\$55.00				\$6,410.00	\$6,465.00
3. Geotechnical Investigation	N	\$110.00		\$30.00	\$3,550.00		\$3,690.00
4. TS &L	7	\$55.00		\$30.00			\$85.00
5. Permitting	7-	\$55.00		\$30.00			\$85.00
6. PS&E	4	\$55.00	\$150.00	\$50.00			\$255.00
7. Admin & Management	~	\$55.00		\$30.00	•		\$85.00
TOTAL		\$990.00	\$300.00	\$340.00	\$8,550.00	\$13,844.00	\$24,024.00

Illinois Department of Transportation

Bloom Companies, LLC Ela Road & Lewis Ave. 11-00000-03-GM & 12-00000-01-GM Lake County Job No. PTB & Item Section Route Fig

10/18/10 Date Overhead Rate Complexity Factor

0

Consultant Services (Direct Labor Muttiple)

Cost Estimate of

			2.75	DIRECT	SERVICES	700		
ITEM	MANHOURS	PAYROLL	TIMES	STSC	>	101	1	ь %
			PAYROLL	2	OTHERS		TOTAL	GRAND
	<b>(A</b> )	(B)	<u>(</u> )	Q	Œ	(C+D+E)	(HTC)	IOTAL
Coord. & Data Collection - Ela Rd	16	759.02	2.087.31	110 001		13.2	(37070)	
Survey -Ela Rd	-	40.77	11211	55.00	7 494 00		2,197.31	3.27%
Geotechnical - Ela Rd	56	1.604.29	4 411 80	5 440 00	00.454,7		7,601.11	
TS&L-Ela	88	2 703 041	30 007 7	00.040.00			9,551.80	
Permittina - Ela	3	128 82	0.400.00	00.08			7,518.36	
PS&E - Ela	120	1 272 AR	345.50	85.00			430.50	0.64%
Admin & Management	76	4,323.00	11,890.07	255.00			12,145.07	
	t	710.44	22.cec	85.00			680.22	
Coord. & Data Collection - Lewis	12	569.27	1 565 48	140 001				
Survey - Lewis		40.77	112 11	25.00	00 044 9		1,675.48	2.49%
Geotechnical - Lewis	47	1.376.61	3 785 GR	00.00	0.410		6,577,11	9.78%
TS &L - Lewis	43	1.351.52	3 716 68	00.080,0			7,475.68	11.11%
Permitting - Lewis	m	125.63	345 50	00.00			3,801.68	5.65%
PS&E - Lewis	70	70 076 6	A 242 70	20.50			430.50	0.64%
Admin & Management	7	218.47	0,242.10	455.00			6,497.70	9.66%
		710.44	22.080	95.00			680.22	1.01%
				-				
TOTALS	478	15,723.18	43,238.74	10,180.00	13,844.00	00.0	47 CBC 78	100 00%
					4			0/20:00



October 21, 2010

Mr. David Liu, Ph.D, PE, SE Senior Associate Bloom Companies, LLC 600 W. Fulton St., Suite 701 Chicago, IL 60661

RE: Cost Proposal for Lake County DOT Projects

Survey Services for Ela Road

Dear Mr. Liu:

Dynasty Group, Inc. is pleased to submit this cost proposal for the above referenced project. We have estimated a total budget of \$7,434.00. Please refer to the attached proposed scope of work and cost estimate for a breakdown of hours.

Should you have any questions or need additional information, please don't hesitate to contact us. Thank you for this opportunity and we look forward to working with you on this project.

Sincerely,

DYNASTY GROUP, INC.

Zhong Chen, PE, PLS

President

**Attachments** 

Page 2 Mr. David Liu

Re: Cost Proposal for Lake County DOT Projects - Survey Services for





# Scope of Work for Survey Service Lake County DOT – Ela Road By Dynasty Group Inc.

October 21, 2010

The scope of work of this project includes the following items:

#### **Project Limits:**

- · Survey limits are:
  - o A 120 feet wide strip centered along the apparent centerline of Ela Road, from a point approximately 750 feet south of the existing centerline-centerline intersection with Cuba Road to a point approximately 1650 feet south of said intersection.
- Refer to the attached exhibit showing the project site in plan view with limits of the survey.

#### **Horizontal and Vertical Controls:**

- Horizontal control will use IL East State Plane Coordinates and will be derived from static GPS
  observations, unless specific horizontal control points are provided by Lake County DOT.
- Vertical control will be based on Lake County vertical benchmarks, as provided by Lake County GIS website.
- Vertical benchmarks will be established on site and recorded in the field book.

#### Topographic and Cross-Section Survey:

- Data collection will be performed with RTK GPS technology and conventional surveying methods.
- · Pavement, shoulders and medians, with elevations reported to the nearest 0.01 feet.
- Cross section data at 50 foot intervals (and changes in grade) along Ela Road, from 60 west of centerline to 60 east of centerline.
- Locations of all visible utility features and roadway appurtenance, including pavement markings.
- Heavily treed areas will be outlined, but individual tree locations/identification will not be included within the scope of this survey.
- Document below-rim details of sewer and water manhole structures including type and condition of structure and pipe direction, visible flow, size, material and invert elevation.
- Provide traffic control and coordinate with Lake County for lane/shoulder closures, if applicable.

#### **Centerline Alignment:**

- Existing alignment for Ela Road will be determined using a "best fit" centerline based on
  pavement edge locations, in conjunction with any found monumentation and any provided plan
  alignment information. LCDOT stationing will be used. Consultant will coordinate with LCDOT's
  surveyor to develop the centerline alignment.
- Alignments will be tied to the project control network by providing station/offsets and witness ties
  to control points used for topographic survey.

#### DTM/TIN Model:

A DTM TIN model will be created within Geopak utilizing the cross section and topographic
information collected.

Page 3 Mr. David Liu

Re: Cost Proposal for Lake County DOT Projects - Survey Services for

Ela Road



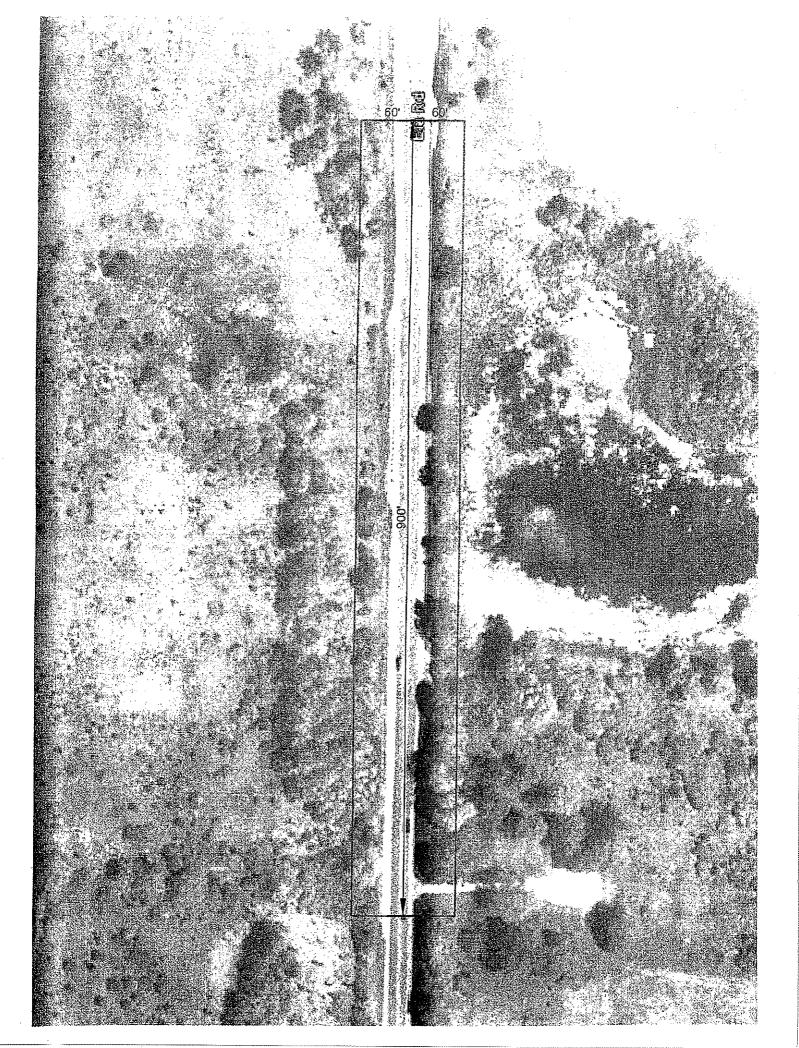
#### **Soil Boring Location:**

 Dynasty Group will locate and provide coordinates for soil borings (to be performed by others), at the direction of Bloom Companies. LLC.

#### **Deliverables:**

- Microstation and Geopak format files utilizing IDOT CADD standards.
- Copies of field book, including station/offset and witnesses for control points, as well as below-rim measurements and notes for utilities.
- · ASCII point files of data collected.
- DTM Model of surveyed surfaces will be included.

Per our correspondence regarding this project, Dynasty Group understands that these services are not to include determination of the right-of-way limits of the roadway, or the preparation of a Plat of Highway. The proposed survey services will be performed in accordance to LCDOT Survey Procedures (Revised 4/21/08); however, limited to the above stated scope.



Bloom Companies, LLC
Lake County DOT - Ela Road
Approximately 900'x120' (50' Interval X-Sections)
SURVEYING FEE ESTIMATE

	2-Man	Sr. Eng.	Sr. Manager   Land Srvyr	Land Srvyr	Eng.	
TASK	\$166	\$136	\$155	\$136	\$30	TOTAL
H. Control/Align.	4	-				:
V. Control	4	-				
Topo/X-Sections	12				20	
Wetland Flags	•					
Soil Boring Loc's.	4				4	
DTM/TIN Model	-				4	
Deliverables						
Scheduling			4			
Review						
Meetings						
QA/QC	-		7			
TOTAL HOURS	24	0	9	0	28	
TOTAL COST	\$3,984	\$0	\$930	\$0	\$2,520	\$7,434



October 21, 2010

Mr. David Liu, Ph.D, PE, SE Senior Associate Bloom Companies, LLC 600 W. Fulton St., Suite 701 Chicago, IL 60661

RE: Cost Proposal for Lake County DOT Projects

Survey Services for Lewis Ave.

Dear Mr. Liu:

Dynasty Group, Inc. is pleased to submit this cost proposal for the above referenced project. We have estimated a total budget of \$6,410.00. Please refer to the attached proposed scope of work and cost estimate for a breakdown of hours.

Should you have any questions or need additional information, please don't hesitate to contact us. Thank you for this opportunity and we look forward to working with you on this project.

Sincerely,

DYNASTY GROUP, INC.

Zhong Chen, PE, PLS

President

**Attachments** 

Page 2
Mr. David Liu
Re: Cost Proposal for Lake County
DOT Projects - Survey Services for
Lewis Ave.



# Scope of Work for Survey Service Lake County DOT – Lewis Ave. By Dynasty Group Inc.

October 21, 2010

The scope of work of this project includes the following items:

#### **Project Limits:**

- Survey limits are:
  - A 120 feet wide strip centered along the apparent centerline of Lewis Avenue, from a
    point approximately 150 feet south of the existing centerline-centerline intersection with
    W. 13<sup>th</sup> St. to a point approximately 750 feet south of said intersection.
- Refer to the attached exhibit showing the project site in plan view with limits of the survey.

#### **Horizontal and Vertical Controls:**

- Horizontal control will use IL East State Plane Coordinates and will be derived from static GPS
  observations, unless specific horizontal control points are provided by Lake County DOT.
- Vertical control will be based on Lake County vertical benchmarks, as provided by Lake County GIS website.
- Vertical benchmarks will be established on site and recorded in the field book.

# Topographic and Cross-Section Survey:

- Data collection will be performed with RTK GPS technology and conventional surveying methods.
- Pavement, shoulders and medians, with elevations reported to the nearest 0.01 feet.
- Cross section data at 50 foot intervals (and changes in grade) along Lewis Ave, from 60 west of centerline to 60 east of centerline.
- Locations of all visible utility features and roadway appurtenance, including pavement markings.
- Heavily treed areas will be outlined, but individual tree locations/identification will not be included within the scope of this survey.
- Document below-rim details of sewer and water manhole structures including type and condition
  of structure and pipe direction, visible flow, size, material and invert elevation.
- Provide traffic control and coordinate with Lake County for lane/shoulder closures, if applicable.

#### Centerline Alignment:

- Existing alignment for Lewis Ave. will be determined using a "best fit" centerline based on
  pavement edge locations, in conjunction with any found monumentation and any provided plan
  alignment information. LCDOT stationing will be used. Consultant will coordinate with LCDOT's
  surveyor to develop the centerline alignment.
- Alignments will be tied to the project control network by providing station/offsets and witness ties
  to control points used for topographic survey.

#### **DTM/TIN Model:**

 A DTM TIN model will be created within Geopak utilizing the cross section and topographic information collected. Page 3
Mr. David Liu
Re: Cost Proposal for Lake County
DOT Projects - Survey Services for
Lewis Ave.



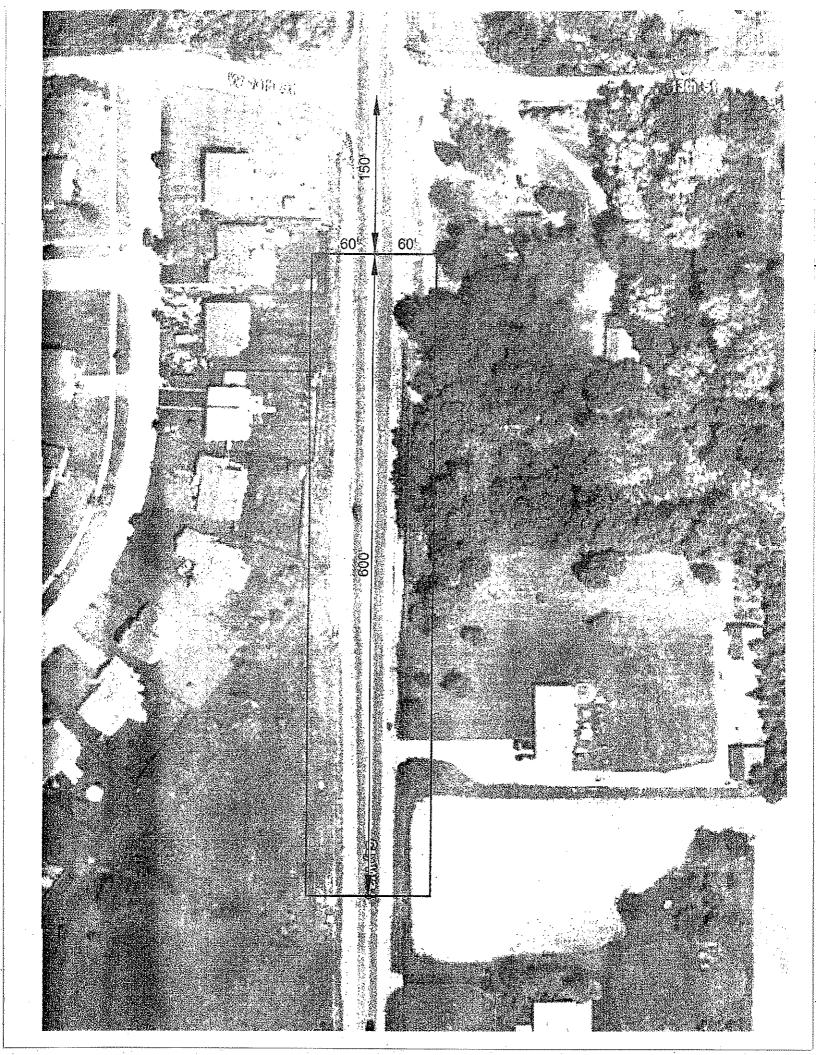
## **Soil Boring Location:**

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Bloom Companies, LLC
Lake County DOT - Lewis Ave.

Lake County DOT - Lewis Ave.
Approximately 600'x120' (50' Interval X-Sections)
SURVEYING FEE ESTIMATE

	2-Man	Sr. Eng.	Sr. Manager   Land Srvyr	Land Srvyr	Eng.	
TASK	\$166	\$136	\$155	\$136	06\$	TOTAL
H. Control/Align.	4					
V. Control	4					
Topo/X-Sections	æ				16	
Wetland Flags					,	
Soil Boring Loc's.	4				4	
DTM/TIN Model					4	
Deliverables					,	
-						
Scheduling			4			
•						
Review						
Meetings						
QA/QC			2			
TOTAL HOURS	20	0	9	0	24	
TOTAL COST	\$3,320	\$0	\$930	\$0	\$2,160	\$6,410