Municipality				· · · · · · · · · · · · · · · · · · ·		
Lake Cou	unty Div. of Transportation	C CO	Illinois Department of Transportation	CO	Name McClure Engineering Assocs., Inc	
Township		Α		N	Address	
			liminary Engineering	S	2728 Grand Avenue	
County		G Se	ervices Agreement For	-	City	
Lake		_ I	otor Fuel Tax Funds	A	Waukedan	
Section 09-00171-13-BT C Y State Illinois						
THE ASSESSMENT						
THIS AGREEMENT is made and entered into this 14th day of April , 2009 between the above Local Agency (LA) and Consultant (ENGINEER) and covers certain professional engineering services in connection with the improvement of the above SECTION. Motor Fuel Tax Funds, allotted to the LA by the State of Illinois under the general supervision of the State Department of Transportation, hereinafter called the "DEPARTMENT", will be used entirely or in part to finance ENGINEERING services as described under AGREEMENT PROVISIONS.						
Section Description						
Name _I	Prairie Crossing Bike Path					
Route _	Length	Mi.	5100 FT	-	(Structure No)	
Termini	IL Rte. 176 to Peterson Roa	ad				
Description: Phase I Engineering Studies and completion of a Project Development Report in accordance with the LRS11, LCDOT Scoping Report, LCDOT Survey Procedures, and Scope of Services attached hereto and made a part hereof.						
Agreement Provisions						
The Engineer Agrees,						
_	- ,					
1. To pe	- ,	e performance of ore described, a	of the following engineering	servi	ces for the LA, in connection with the	
1. To pe	rform or be responsible for the	ore described, a	of the following engineering and checked below:			
1. To pe	rform or be responsible for the sed improvements herein bef Make such detailed surveys	ore described, a as are necessa	of the following engineering and checked below: ary for the preparation of del	ailed		
1. To per propose	rform or be responsible for the sed improvements herein bef Make such detailed surveys Make stream and flood plair of detailed bridge plans. Make or cause to be made s	ore described, a as are necessa hydraulic surve such soil survey required to furn	of the following engineering and checked below: ary for the preparation of deleys and gather high water despendent of the contraction of the delegation is a sufficient data for the delegation of the delegation	ailed ata, a ns inc sign (roadway plans Ind flood histories for the preparation eluding borings and soil profiles and of the proposed improvement	
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 To per propose a. ⋈ b. □ c. ⋈ d. ⋈ e. ⋈ 	rform or be responsible for the sed improvements herein bef Make such detailed surveys Make stream and flood plair of detailed bridge plans. Make or cause to be made sanalyses thereof as may be Such investigations are to be Make or cause to be made sfurnish sufficient data for the Prepare Army Corps of Engi	as are necessan hydraulic surveys such soil surveys required to furn e made in accor such traffic studi e design of the p ineers Permit, Le of Water Resou	of the following engineering and checked below: ary for the preparation of deleys and gather high water deleys and gather high water deleys and gather high water deleys and count data for the delegance with the current requires and counts and special incoposed improvement. ake County Stormwater Marces Permit, Bridge waterwater	ailed ata, a ns inc sign o ireme nterse	roadway plans and flood histories for the preparation cluding borings and soil profiles and of the proposed improvement. ents of the DEPARTMENT.	
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1. To per propose a. ⊠ b. □ c. ⊠ d. ⊠ e. ⊠	rform or be responsible for the sed improvements herein before Make such detailed surveys Make stream and flood plair of detailed bridge plans. Make or cause to be made an alyses thereof as may be Such investigations are to be Make or cause to be made a furnish sufficient data for the Prepare Army Corps of Engiof Natural Resources-Office Utility plan and locations, and Prepare Preliminary Bridge of and high water effects on road Make complete general and	as are necessan hydraulic surveys such soil surveys required to furn e made in accor such traffic studi e design of the p ineers Permit, Li of Water Resou d Railroad Cross design and Hydra adway overflows detailed plans, cument in both	of the following engineering and checked below: ary for the preparation of deleays and gather high water deleays and gather high water deleays and special in the deleays and counts and special in the county stormwater Marces Permit, Bridge waterwasing work agreements. Traulic Report, (including ecounts and bridge approaches. Special provisions, proposal hardcopy and electronic for	ailed ata, a ns inc sign c ireme nterse nager ay ske nomi s anc	roadway plans and flood histories for the preparation cluding borings and soil profiles and of the proposed improvement. ents of the DEPARTMENT. ection studies as may be required to ment Commission Permit, Department etch, and/or Channel Change sketch, c analysis of bridge or culvert types) I estimates of cost and furnish the LA Additional copies of any or all	
1. To per propose a.	rform or be responsible for the sed improvements herein before Make such detailed surveys Make stream and flood plair of detailed bridge plans. Make or cause to be made analyses thereof as may be Such investigations are to be Make or cause to be made a furnish sufficient data for the Prepare Army Corps of Engiof Natural Resources-Office Utility plan and locations, and Prepare Preliminary Bridge of and high water effects on road Make complete general and with one (1) copy of each do documents, if required, shall Furnish the LA with survey a	as are necessan hydraulic surveys such soil surveys required to furn e made in accor such traffic studi e design of the p ineers Permit, Li of Water Resou d Railroad Cross design and Hydr adway overflows detailed plans, s cument in both be furnished to	of the following engineering and checked below: ary for the preparation of deleges and gather high water despises or subsurface investigation is sufficient data for the deviance with the current requires and counts and special is proposed improvement. ake County Stormwater Marces Permit, Bridge waterwasting work agreements. Traulic Report, (including econs and bridge approaches. Is and bridge approaches. Special provisions, proposal hardcopy and electronic for the LA by the ENGINEER allicate of all necessary right-	ailed ata, a as inc sign o ireme nterse nager ay ske nomi s anc mat. at his of-wa	roadway plans and flood histories for the preparation cluding borings and soil profiles and of the proposed improvement. ents of the DEPARTMENT. ection studies as may be required to ment Commission Permit, Department etch, and/or Channel Change sketch, c analysis of bridge or culvert types) I estimates of cost and furnish the LA Additional copies of any or all actual cost for reproduction.	

BLR 05510 (Rev. 11/06) 09-1403

	j. Prepare the necessary environmental docu DEPARTMENT's Bureau of Local Roads &	uments in accordance with the procedures adopt & Streets.	ed by the
•	k. 🛛 Prepare the Project Development Report w	when required by the DEPARTMENT.	
(2)) That all reports, plans, plats and special provisions be in accordance with current standard specification understood that all such reports, plats, plans and of LA and the DEPARTMENT.	ons and policies of the LA and of the DEPARTM	ENT. It is being
(3)	To attend conferences at any reasonable time who	en requested to do so by representatives of the I	A or the Department.
(4)	In the event plans or surveys are found to be in en survey corrections are necessary, the ENGINEER though final payment has been received by him. I minimum delay to the Contractor.	agrees that he will perform such work without e	xpense to the LA, ever
(5)	That basic survey notes and sketches, charts, compursuant to this AGREEMENT will be made available without restriction or limitations as to their use.	nputations and other data prepared or obtained be ble, upon request, to the LA or the DEPARTMEN	by the Engineer NT without cost and
(6)	That all plans and other documents furnished by the and will show his professional seal where such is re-	ne ENGINEER pursuant to this AGREEMENT wi	ll be endorsed by him
The	e LA Agrees,	• .	
1.	To pay the ENGINEER as compensation for all ser accordance with one of the following methods indic	vices performed as stipulated in paragraphs 1a,	1g, 1i, 2, 3, 5 and 6 in
	— · ·	percent of the awarded contract cost of the propo	osed improvement as
	approved by the DEPARTMENT.	order to the awarded contract cost of the prope	osca improvement as
	t. [7] A		
	the DEPARTMENT based on the following s	awarded contract cost for the proposed improve schedule:	ment as approved by
	the DEPARTMENT based on the following s	schedule:	ment as approved by
	the DEPARTMENT based on the following s	schedule: nges Based on Awarded Contract Cost	ment as approved by
	the DEPARTMENT based on the following s Schedule for Percenta	schedule:	ment as approved by (see note)
	the DEPARTMENT based on the following s Schedule for Percenta Awarded Cost	schedule: nges Based on Awarded Contract Cost	(see note) %
	the DEPARTMENT based on the following s Schedule for Percenta Awarded Cost	schedule: nges Based on Awarded Contract Cost	(see note)
	the DEPARTMENT based on the following s Schedule for Percenta Awarded Cost	schedule: nges Based on Awarded Contract Cost	(see note) % % % %
	the DEPARTMENT based on the following s Schedule for Percenta Awarded Cost	schedule: nges Based on Awarded Contract Cost	(see note) % % %
	the DEPARTMENT based on the following s Schedule for Percenta Awarded Cost Under \$50,000	schedule: nges Based on Awarded Contract Cost	(see note) % % % % %
2. T p a e s	the DEPARTMENT based on the following s Schedule for Percenta Awarded Cost Under \$50,000 Note: Not necessarily a percent	riges Based on Awarded Contract Cost Percentage Fees age. Could use per diem, cost-plus or lump sure of the ENGINEER AGREES at actual cost of the profit, overhead and readiness to serve - "actual to the approval of the LA paragraph 1c. If the ENGINEER sublets all or profits actual cost.	(see note) % % % % % n. f ual cost" being defined other out-of-pocket , the ENGINEER may
2. Tpaesw "("w	the DEPARTMENT based on the following s Schedule for Percental Awarded Cost Under \$50,000 Note: Not necessarily a percent To pay for services stipulated in paragraphs 1a, 1c, performing such work plus115 percent to cove as material cost plus payrolls, insurance, social secuexpenses will be reimbursed to the ENGINEER at his sublet all or part of the services provided under the p	riges Based on Awarded Contract Cost Percentage Fees Tage. Could use per diem, cost-plus or lump sure and the Engineer and readiness to serve - "acturity and retirement deductions. Traveling and cois actual cost. Subject to the approval of the LA paragraph 1c. If the Engineer sublets all or percent service charge. A and the DEPARTMENT copies of invoices from the work should be consistent with the employed including the Principal Engineer, perform routing	(see note) % % % % % n. fual cost" being defined other out-of-pocket, the ENGINEER may art of this work, the LA on the party doing the electassifications for electassifications electassifications for electassifications electassifi
2. T p a e s w "(w th sl	Schedule for Percental Awarded Cost Under \$50,000 Note: Not necessarily a percent Under \$50,000 Note: Not necessarily a percent To pay for services stipulated in paragraphs 1a, 1c, performing such work plus 115 percent to cove as material cost plus payrolls, insurance, social secunic expenses will be reimbursed to the ENGINEER at his sublet all or part of the services provided under the payroll pay the cost to the ENGINEER plus a five (5) per Cost to Engineer" to be verified by furnishing the LA work. The classifications of the employees used in the services performed. If the personnel of the firm, hould normally be performed by lesser-salaried personnel of the services.	ages Based on Awarded Contract Cost Percentage Fees age. Could use per diem, cost-plus or lump sur age of the ENGINEER AGREES at actual cost of profit, overhead and readiness to serve - "actual to actual cost. Subject to the approval of the LA paragraph 1c. If the ENGINEER sublets all or proent service charge. A and the DEPARTMENT copies of invoices from the work should be consistent with the employed including the Principal Engineer, perform routing sonnel, the wage rate billed for such services should be consistent with services should be consistent with the employed including the Principal Engineer, perform routing sonnel, the wage rate billed for such services should be consistent with the employed including the Principal Engineer, perform routing sonnel, the wage rate billed for such services should be consistent with the employed including the Principal Engineer, perform routing sonnel, the wage rate billed for such services should be consistent with the employed including the Principal Engineer, perform routing sonnel, the wage rate billed for such services should be consistent with the employed including the Principal Engineer, perform routing sonnel, the wage rate billed for such services should be consistent with the employed including the Principal Engineer.	(see note) % % % % % n. fual cost" being defined other out-of-pocket, the ENGINEER may art of this work, the LA on the party doing the electassifications for electassifications electassifications for electassifications electassifi

- 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 paragraphs 1a through 1g under 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. MONTHLY INVOICING

- 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 ________ 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 his 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 his 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 he/she 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 he/she 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/Town	
ATTEST:		State of Illinois, acting by and thr	ough its
Ву			
LAKE COUNTY	Clerk	Ву	
(Seal)		Title	
		,	
	· · · · · · · · · · · · · · · · · · ·		
Executed by the ENGINEER:			
		,	
ATTEST:			
By lam 7. Johnson		By T	
LARRY F. JOHNSON, P.E. Title PRESIDENT/CEO	-	HARLAN M. DOLAND, I	P.E., P.L.S.
tile FRESIDENTICEO		Title DIVISION MANAGERA	ICE PRESIDENT
	•		
	······································		
Approved	1		,
Approved			
Date Department of Transportation			
Dopardness of Transportation			
Regional Engineer			

Exhibit A

Preliminary Engineering

	*Firm's approved rates on file	IDOT's Burgan of Accounting and	And Was:		Payroll burden & runge Rate	Overhead & Expense Rate	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Route;	Local Agency: LAKE	(Municipality/Township/County)	Section: 05-00171-12-BT	Project: Prairie Crossino Bike Path	S. C.	100	

Payroll Burden & Fringe Rate 93.16% Overhead & Expense Rate 95.98%	
Complexity Factor 0.035	

	Cost Estin	ate of Con	sultant's Se	Cost Estimate of Consultant's Services in Dollars	5			
Element of Work			Pay-	Pay-	Payroll Burden &	Overhead		
Statistical conflorations of control	Employee	Man-	Roll ,	8	Fringe	and	Profit	
od veys, mens, opecifications, notificate	Classification	Hours	Rate	Costs	Costs	Expenses*		Total
DATA COLLECTION, COMPILATION, REVIEW AND EVALUATION	acw roat cod	;	0		300			
	DECENSIVEED	7,0	17.04	4070	4009.20	\$000.01	\$251.07	\$1,924.84
	ENG TECH	4	26.55	\$106.20	\$68.94	\$101.93	\$364,21	\$2,792.29
GY (SI PORT CO								
SURVEYS	PARTY CHIEF	24	33.13	\$795.12	\$740.73	\$763.16	\$344.85	\$2,643,86
	INSRMT OPERTR	48	24.40	\$1,171.20	\$1,091.09	\$1,124,12	\$507.96	\$3,894,37
	SURVEY TECH	48	18,37	\$881.76	\$821.45	\$846.31	\$382.43	\$2,931.95
SOMBOG IOS								
SOIL BURINGS	SUBCONTRACTOR							\$1,737.00
ALIGNMENT AND GEOMETRIC STILLINES	DDO IECT MAD		70 07	00000	OF 05.74	2010		
	PROF ENGINEED	\$ 5	92.24	\$192,95	\$178.75	\$185.20	\$83.69	\$641.61
	TOT CALL	2	36.40	00.88c.1¢	\$1,303.87	41,343,34	\$607.02	\$4,653.83
	ENG INCH	P.	76.55	\$3,079.80	\$2,869.14	\$2,955.99	\$1,335.74	\$10,240.67
DRAINAGE AND HYDRALLI IC STUDIES	DBO IECT MOD	1	70 07	90.00	00000	0000		
	NOW LOCK	,	40.24	\$50.4g	\$8.88 \$	\$92.60	\$41.84	\$320.80
	TROP, TROPINERY	22	64.89	\$839.76	\$782,32	\$806.00	\$364.21	\$2,792,29
	ENG LECH	8	26.55	\$796.50	\$742.02	\$764.48	\$345.45	\$2,648,45
MOLENNICHO NONDON MUNICIPADO								
REVIEW AGENCY COORDINATION	PRINCIPAL ENGR.	16	62,55	\$1,000.80	\$932.35	\$960.57	\$434.06	\$3,327.78
	PROJECT MGR	32	48,24	\$1,543.68	\$1,438.09	\$1,481.62	\$669.51	\$5,132.90
	CAD TECH	18	28.55	\$424,80	\$395.74	\$407.72	\$184.24	\$1,412.50
PROJECT REPORT	PRINCIPAL ENGR.	4	62.55	\$250.20	\$233.09	\$240.14	\$408.54	\$831.04
	PROJECT MGR	28	48.24	\$1,350,72	\$1,258,33	\$1 298 42	\$585.82	07 107 75
	PROF. ENGINEER	32	34.99	\$1,119.68	\$1,043.09	\$1,074,67	\$485.62	\$3,723.06
	ENG/CAD TECH	120	26.55	\$3,186.00	\$2,968.08	\$3,057,92	\$1,381,80	\$10,593,80
<i>y</i>	CLERICAL	æ	20.08	\$160.64	\$149.65	\$154.18	\$69.67	\$534.14
PROJECT MANAGEMENT AND	PRINCIPAL ENGR.	9	62.55	\$625.50	\$582.72	\$600,35	\$271.29	\$2,079.86
ADMINIS I KA I ION	PROJECT MGR	9	48.24	\$482.40	\$449.40	\$463.01	\$209.22	\$1,604.03
	CLERICAL	4	20.08	\$80.32	\$74.83	\$77.09	\$34.84	\$267.08
I KAVEL AND OUT OF POCKET	ALLOWANCE							\$2,214.50
Totale		930		01 000 100	440	- 1	-	
OCER		900		\$21,0UZ,70	\$21,002,70 \$18,500,17	\$20,158.43	\$9,109.11	\$73,787.97

BLR 4351 (Rev. 11/89) (Sheet 8 of 8)

At\IDOT0808

McCLURE ENGINEERING ASSOCIATES, INC. ACTIVE PERSONNEL CATEGORY LISTINGS REPORT: EMPLOYEE CLASSIFICATION LIST

DATE: 08/05/08

CLASSIFICATIONS	AVERAGE HR. RATE
PRINCIPAL	62.55
LICENSED STRUCTURAL ENGINEER	47.00
PROJECT MANAGER	48.24
PROF, LAND SURVEYOR	38.06
PROFESSIONAL CIVIL ENGINEER	34.99
SURVEY PARTY CHIEF	33.13
SURVEY INSTRUMENT OPERATOR	24.40
ENGINEER TECHNICIAN	26.55
DRAFTERS/CADD	. 26.55
ENGR. INTERN/SURVEY INTERN	25.80
CLERICAL	20.08
SURVEY TECHNICIAN	18.37

Note: Annual salary adjustments (raises) are given on anniversary dates through out the year. Salary adjustments generally average 5% annually.

LAKE COUNTY DIVISION OF TRANSPORTATION PRAIRIE CROSSING BIKE PATH SCOPE OF SERVICES MANHOUR PROJECTIONS

PHASE I ENGINEERING

TASK 1

Data	conceden, compliation, Review and	Evaluation		
1.	Data Collection			8
2.	Field Trip to Area			16
3.	Meetings with Lake County Divisio	n of Transpo	rtation	8
4.	Meetings and Coordination with ID	OT BLRS		<u>8</u>
			Total Task 1	40
		TASK 2	·	
Surve	ys		·	
1.	Topographic Survey			<u>120</u>
			Total Task 2	120
		TASK 3		
Soil B	orings			
	Soil Borings		Allowance	\$1737.00
			Total Task 3	\$1737.00

TASK 4

A	lignment and Geometric Studies	
1.	·	40
2.	Profile and Cross Section Studies	40
3.	Refine Typical Cross Section	40
4.	Utility Studies and Impact Analysis	16
5.	Finalize Proposed Geometry	16
6.	Coordination Meetings	40
	Coolumation Meetings	_8
	Total Task 4	160
	TASK 5	
Drai	nage and Hydraulic Studies	
1.	Drainage Analysis	40
2.	Erosion Control	
	Total Task 5	_16
	TASK 6	56
Revie	w Agency Coordination	
1.	Review Agency Coordination	
2.	·	8
3.	Coordination with Mundelein Park and Recreation District	24
	Coordination with Utility Companies	16
ਜ .	Prepare Project Exhibits, Maps and Charts	<u>16</u>
	Total Task 6	64

TASK 7

Project 1	Report
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1.	Prepare project report in accordant	nce with IDOT requirements	40
2.	•	ts in accordance with IDOT requirements	
3.	Local Coordination Summary	Tequirements	16
4.	Produce Exhibits		16
5.	Assemble and Submit the Report		40
6.			40
0.	Report Revisions per Review Com	ments	<u>40</u>
		Total Task 7	192
		TASK 8	
Proje	ct Management and Administration		24
		Total Task 8	24
	Total Manhours		656

McCLURE ENGINEERING ASSOCIATES, INC. SCOPE OF SERVICES TRAVELING AND OUT-OF-POCKET EXPENSES

<u>Item</u>	Quantity	<u>Unit Price</u>	<u>Total</u>
Travel (Site Visits/Meetings	13 trips @ 30 mi=390mi	i \$0.55	\$ 214.50
Copies (8½ x 11)	2,500 Each	\$0.20	\$ 500.00
Bluelines/Sepias/Prints (22 x 34)	500 Each	\$2.00	\$1,000.00
UPS*	1	Lump Sum	\$ 500.00
TOTAL			\$2,214.50

^{*}Lump sum allowance since UPS will be based on weight and size of item shipped throughout the project.

office: 1-847-870-0544

fax: 1-847-870-0661 www.sollandmaterialconsultants.com

us@soilandmaterialconsultants.com

March 3, 2009 Proposal No. 11,085

Mr. Harlan M. Doland McClure Engineering Associates, Inc. 2728 Grand Avenue Waukegan, IL 60085

> Re: Geotechnical Investigation Prairie Crossing Bike Path Lake County, Illinois

Dear Mr. Doland:

Submitted for your consideration is our proposal to provide the requested subsurface soll investigation, engineering evaluation and report along 3 incomplete sections of the bike path. Our services will be provided in accordance with the guidelines stated below.

Field Investigation

We propose the layout of 9 borings (3 per section) at various locations and in areas accessible to our truck mounted drilling equipment. We will contact JULIE for location of public utilities. We will take reasonable precautions to minimize surface and subsurface damage due to our operations. We cannot be responsible for the cost of site restoration resulting from accessing and performing the investigation.

The borings will be power auger drilled and soils sampled using a split barrel sampler at intervals of 2.5 feet within 5.0 feet of the surface. Additional boring depth and sampling may be provided if organic soil conditions are present at a depth of 5.0 feet.

Laboratory Testing

Soil samples will be returned to our laboratory for review and tested to determine moisture content. Competent samples of cohesive soils will be tested further to determine dry unit weight and unconfined compressive strength.

Engineering Evaluation, Report

The field investigation and laboratory testing will be completed under the direction of a Registered Professional Engineer. Preliminary information will be available upon request. Upon completion of the investigation an engineering evaluation will be completed and a report prepared. The report will present our findings and appropriate recommendations.

Page 2

Proposal No. 11,085 Re: Prairie Crossing Bike Path Lake County, Illinois

Charges

Our unit charges and the estimated total cost for the investigation are indicated on the attached Schedule of Fees. Final billing will be based on this schedule. If additional services are requested that are beyond the scope of the proposed investigation, they will be provided at our established unit prices.

Your consideration of this proposal is appreciated. The attached General Conditions are understood to be part of this proposal. If acceptable, please execute and return one copy to our office. Should you have any questions concerning the scope of the investigation, please let us know.

Very truly yours,

SOIL AND MATERIAL CONSULTANTS, INC.

Gerald J. Kissner, P.E.

President

GJK:kg

Proposal Accepted By:	
Client	
Street	
Town	
Phone (State Zip Code
Signature	Fax ()
Printed Name	Position

Proposal No. 11,085
Re: Prairie Crossing Bike Path
Lake County, Illinois

SCHEDULE OF FEES -- SUBSURFACE SOIL INVESTIGATION

<u>Fleid</u>		·		
Boring Layout Utility Location Mobilization Drilling (9 at 5') Split Barrel Sampling Laboratory	2 hr. 1 hr. 1 45 ft. 18 ea.	\$ 80.00 /hr. \$ 80.00 /hr. \$ Lump Sum \$ 11.00 /ft. \$ 8.00 ea.	\$ \$ \$ \$ \$ \$	160.00 80.00 225.00 495.00 144.00
Moisture Content Unit Weight Unconfined Compressive Strength	27 ea. 18 ea. 18 ea.	\$ 3.00 ea. \$ 3.00 ea. \$ 6.00 ea.	\$ \$	81.00 54.00 108.00
Report				
Senior Engineer (P.E.)	3 hr.	\$ 130,00 /hr.	\$	390.00
•		Estimated Total Cost:	\$	1,737.00

Re: Prairie Crossing Bike Path Lake County, Illinois

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TERMS AND CONDITIONS

Soil and Material Consultants, Inc. (SMC) scope of work defined in the proposal was based on information provided by the client. If incomplete, inaccurate or if unexpected site conditions are discovered, the scope of work may change.

GEOTECHNICAL INVESTIGATIONS

Client will furnish SMC with right-of-access to the site. SMC will take reasonable precautions to minimize site damage due to its operations, but has not included in the fee the cost of restoration of any resulting damage. SMC shall not be liable for damage or injury due to encountering subsurface structures (pipes, tanks, utilities or others) not called to SMC's attention in writing or are not correctly shown on the drawings furnished by client or client's representative. If the client desires, SMC will restore any damage to the site and add the cost of restoration to the fee.

Field work, laboratory testing and engineering analysis will be performed in accordance with generally accepted soil and foundation engineering practices. Samples are retained in our laboratory for 30 days from date of report and then destroyed unless other disposition is requested. The data reported applies only to the soils sampled and the conditions encountered at each boring location. This does not imply or guarantee that soils between borings will be identical in character. Isolated inclusions of better or poorer soils can be found on any site. SMC will not be liable for extra work or other consequences due to changed conditions encountered between borings.

Any exploration, testing and analysis associated with the investigation will be performed by SMC for the client's sole use to fulfill the purpose of this Agreement. SMC is not responsible for use or interpretation of the information by others. The client recognizes that subsurface conditions may vary from those encountered in borings or explorations. Information and recommendations developed by SMC are based solely on available information and for the currently proposed improvement.

TESTING SERVICES

Client shall furnish SMC with at least one working day's notice on any part-time (less than 8 hours/day) job when field personnel are requested. SMC shall make reasonable effort to provide field personnel in a timely manner but reserves the right to schedule field personnel as deemed appropriate. Minimum charges will be billed when work cancellations are received after field personnel have left for the project site.

SMC personnel will provide a professional service based on observations and testing of the work of a contractor, subcontractor, or other service/material provider, as spacifically requested. SMC field personnel will look for general conformance with project specifications, plans and/or soil report but does not accept the responsibility to control or direct the work of others. Discrepancies noted by SMC office or field personnel will be referred to client or client's representative.

Testing Services furnished by SMC are defined as the taking of soil and/or material tests at various locations and the making of visual observations relating to earthwork, foundations, and/or materials as specifically requested by the client and agreed to by SMC, and will be limited to those specifically agreed services. Such services will be performed by SMC using that degree of care and skill ordinarily exercised, under similar circumstances, by reputable members of the profession practicing in this or similar localities.

Observations and testing of soils and/or materials by SMC in no way implies a guarantee or warranty of the work of the contractor, subcontractor, or other service/material provider. SMC's work or failure to perform same shall in no way excuse such contractor, subcontractor or other service/material provider from liability in the event of subsequently discovered defects, omissions, errors, deficiencies or failure to perform in accordance with the project plans and epecifications. SMC field personnel shall not be responsible for superintendence of the construction process nor direction of the work of the contractor, subcontractor, or other service/material provider. SMC's work shall not include determining or implementing the means, methods, techniques, sequences or procedures of construction. SMC shall not be responsible for evaluating, reporting or affecting job conditions concerning health, safety or welfare.

Documents including but not limited to technical reports, original boring logs, field data, field notes, laboratory test data, calculations, reports of inspection and testing, geotechnical reports, technical reports, submittals and estimates furnished to the calculations of this project or on any other project. Any reuse without SMC's written consent will be at user's sole risk and without liability or legal exposure to SMC. User shall indemnify and hold hamfless SMC from all claims, damages, losses and expenses including attorney's fees arising out of or resulting therefrom. To the maximum extent permitted by law, the Client agrees to limit action or legal theory pled or asserted.

Soil and Material Consultants, Inc. is a Professional Engineering Corporation. Engineering services are often completed by extension through technical staff. The unit rates presented in this proposal do not reflect charges associated with organized labor. Future agreements, if any, with organized labor will invalidate some of the unit rates presented. Required rate adjustments will be presented to the client for acceptance prior to providing services at the adjusted rates.

Services are invoiced monthly for the preceding period. Client agrees to pay each invoice within thirty (30) days of receipt and further agrees to pay interest on all amounts not paid at the rate of 2.0% per month, an annual rate of 24%, from the due date. Client agrees to pay all reasonable costs of collection including staff time, court costs, Attorneys' fees and related expenses, if this account becomes delinquent. Client agrees that reports furnished to the client but not paid for in full remain the sole property of SMC and will not be used for design, construction, permits, licensing, sales or other gain.

Route: Along Midlothian Road	Local Agency: LAKE COUNTY	(Mundelein/Freemont/Lake)	Section: 05-00171-12-BT	Project: Prairie Crossing Bike Path	Job No.:

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PROJECT MANAGEMENT AND ADMIN.								

State of Illinois
Department of Transportation
Bureau of Local Roads and Streets

SPECIAL PROVISION FOR EMPLOYMENT PRACTICES

Effective: January 1, 1999

In addition to all other labor requirements set forth in this proposal and in the Standard Specifications for Road and Bridge Construction, adopted by the Department of Transportation, during the performance of this contract, the Contractor for itself, its assignees, and successors in interest (hereinafter referred to as the "Contractor") agrees as follows:

Selection Of Labor. The Contractor shall comply with all Illinois statutes pertaining to the selection of labor.

Equal Employment Opportunity. During the performance of this contract, the Contractor agrees as follows:

- (a) That it will not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin, ancestry, age, marital status, physical or mental handicap or unfavorable discharge from military service, and further that it will examine all job classifications to determine if minority persons or women are underutilized and will take appropriate affirmative action to rectify any such underutilization.
- (b) That, if it hires additional employees in order to perform this contract or any portion hereof, it will determine the availability of minorities and women in the area(s) from which it may reasonably recruit and it will hire for each job classification for which employees are hired in such a way that minorities and women are not underutilized.
- (c) That, in all solicitations or advertisements for employees placed by it or on its behalf, it will state that all applicants will be afforded equal opportunity without discrimination because of race, color, religion, sex, national origin, ancestry, age, martial status, physical or mental handicap or unfavorable discharge from military service.
- (d) That it will send to each labor organization or representative of workers with which it has or is bound by collective bargaining or other agreement or understanding, a notice advising such labor organization or representative of the Contractor's obligations under the Illinois Human Rights Act and the Department's Rules and Regulations. If any such labor organization or representative fails or refuses to cooperate with the Contractor in its efforts

CHECK SHEET LRS11

to comply with so such Act and Rules and Regulations, the Contractor will promptly so notify the Illinois Department of Human Rights and the contracting agency and will recruit employees from other sources when necessary to fulfill its obligations thereunder.

- (e) That it will submit reports as required by the Department of Human Rights Rules and Regulations, furnish all relevant information as may from time to time be requested by the Department or the contracting agency, and in all respects comply with the Illinois Human Rights Act and the Department's Rules and Regulations.
- (f) That it will permit access to all relevant books, records, accounts and work sites by personnel of the contracting agency Illinois Department of Human Rights for purposes of investigation to ascertain compliance with the Illinois Human Rights Act and the Department's Rules and Regulations.
- (g) That it will include verbatim or by reference the provisions of this clause in every subcontract so that such provisions will be binding upon every such subcontractor. In the same manner as with other provisions of this contract, the Contractor will be liable for compliance with applicable provisions of this clause by all its subcontractors; and further it will promptly notify the contracting agency and the Illinois Department of Human Rights in the event any subcontractor fails or refuses to comply therewith. In addition, the Contractor will not utilize any subcontractor declared by the subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations.

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 (http://gis.lakeco.org/maps/). 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 3rd 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 MICROSTATION.DGN format. All line work defining different elements shall be completed using 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.