Mun	icipality		L 0 C	Illinois Department of Transportation	CO	Ciorba Group, Inc.
Tow	nship		A L	Preliminary/Construction	N S U	Address 5507 N Cumberland Ave
Coul	•	Div. of Transportation	GE	Engineering Services Agreement	L T	City Chicago
Sect			N	For Non-Motor Fuel Tax Funds	A N	State
14-0	00999-05	-RS	C		Т	Illinois
Age imp sup	ency (LA) rovement ervision c	of the above PROJECT.  of in coordination with the	ER) ai Non-l e Stat	nd covers certain professional engin Motor Fuel Tax Funds, allotted to the	eerin e LA einaf	ig services in connection with the by the State of Illinois under the general fter called the "DEPARTMENT", will be
WH	EREVER	IN THIS AGREEMENT or	attac	thed exhibits the following terms are	used	d, they shall be interpreted to mean:
Res	gional En sident Co ntractor	nstruction Supervisor	Γrans Autho ⊇ROJ		nedia	ate charge of the engineering details of the
				Section Description		
Nar	no lev	vis Avenue Ro	ıto	·		Structure No.
			_	CH 27 Length 1.76 miles  Sunset Avenue to Your House Road		Structure No.
Des The Arga	scription project is onne Driv mix asph eling binde	s the resurfacing and rehal e to 14th Street and the se alt (HMA) removal, curb al	oilitati econd	on of Lewis Avenue at two locations one is in Waukegan from Sunset A tter removal and replacement, sidew	. Th venu valk r	e first location is in North Chicago from le to York House Road. The project involves removal and replacement, placement of HM/ storation, and the removal of a pedestrian
				Agreement Provisions		
The	Enginee	r Agrees,				
1,				rformance of the following engineeri escribed, and checked below:	ing se	ervices for the LA in connection with the
	а. 🔲	Make such detailed surv	eys a	s are necessary for the preparation	of de	tailed roadway plans.
	b. 🔲	Make stream and flood p detailed bridge plans.	lain h	ydraulic surveys and gather high wa	ater d	data and flood histories for the preparation o
	c. 🗌	analyses thereof as may	be re		he de	ons including borings and soil profiles and esign of the proposed improvement. Such ents of the DEPARTMENT.
	d. 🗌			ch traffic studies and counts and spe		intersection studies as may be required to

Printed 5/15/2015 Page 1 of 5 BLR 05512 (Rev. 01/10/12)

e.		Prepare Army Corps of Engineers Permit, Division of Water Resources Permit, Bridge waterway sketch and/or Channel Change sketch, Utility plan and locations and Railroad Crossing work agreements.
f.		Prepare Preliminary Bridge Design and Hydraulic Report, (including economic analysis of bridge or culvert types) and high water effects on roadway overflows and bridge approaches.
NO	OTE	Four copies to be submitted to the Regional Engineer
g.		Make complete general and detailed plans, special provisions, proposals and estimates of cost and furnish the LA with five (5) copies of the plans, special provisions, proposals and estimates. Additional copies of any or all documents, if required shall be furnished to the LA by the ENGINEER at his actual cost for reproduction.
h.		Furnish the LA with survey and drafts in quadruplicate of all necessary right-of-way dedications, construction easements and borrow pit and channel change agreements including prints of the corresponding plats and staking as required.
i.		Assist the LA in the receipt and evaluation of proposals and the awarding of the construction contract.
j.		Furnish or cause to be furnished:
		(1) Proportioning and testing of concrete mixtures in accordance with the "Manual of Instructions for Concrete Proportioning and Testing" issued by the Bureau of Materials and Physical Research, of the DEPARTMENT and promptly submit reports on forms prepared by said Bureau.
		(2) Proportioning and testing of bituminous mixtures (including extracting test) in accordance with the "Manual of Instructions for Bituminous Proportioning and Testing" issued by the Bureau of Materials and

- "Manual of Instructions for Bituminous Proportioning and Testing" issued by the Bureau of Materials and Physical Research, of the DEPARTMENT, and promptly submit reports on forms prepared by said Bureau.
- (3) All compaction tests as required by the specifications and report promptly the same on forms prepared by the Bureau of Materials and Physical Research.
- (4) Quality and sieve analyses on local aggregates to see that they comply with the specifications contained in the contract.
- (5) Inspection of all materials when inspection is not provided at the sources by the Bureau of Materials and Physical Research, of the DEPARTMENT and submit inspection reports to the LA and the DEPARTMENT in accordance with the policies of the said DEPARTMENT.

### k. X Furnish or cause to be furnished

- (1) A resident construction supervisor, inspectors, and other technical personnel to perform the following work: (The number of such inspectors and other technical personnel required shall be subject to the approval of the LA.)
  - a. Continuous observation of the work and the contractor's operations for compliance with the plans and specifications as construction proceeds, but the ENGINEER does not guarantee the performance of the contract by the contractor.
  - b. Establishment and setting spot checking of lines and grades.
  - c. Maintain a daily record of the contractor's activities throughout construction including sufficient information to permit verification of the nature and cost of changes in plans and authorized extra
  - d. Supervision of inspectors, proportioning engineers and other technical personnel and the taking and submitting of material samples.
  - e. Revision of contract drawings to reflect as built conditions.
  - f. Preparation and submission to the LA in the required form and number of copies, all partial and final payment estimates, change orders, records and reports required by the LA and the DEPARTMENT.
    - g. At least one DECI-certified employee available for erosion control inspection duties

NOTE: When Federal funds are used for construction and the ENGINEER or the ENGINEER's assigned staff is named as resident construction supervisor, the ENGINEER is required to be prequalified with the STATE in Construction Inspection. The onsite resident construction supervisor and project inspectors shall possess valid Documentation of Contract Quantities certification.

Printed 5/15/2015 Page 2 of 5 BLR 05512 (Rev. 01/10/12)

- 2. That all reports, plans, plats and special provisions construction documentation to be furnished by the ENGINEER pursuant to this agreement will be in accordance with the current standard specifications and policies of the DEPARTMENT & the LA, it being understood that all such reports, plats, plans and drafts construction documentation shall before being finally accepted, be subject to approval by the LA and the said DEPARTMENT.
- To attend conferences at any reasonable time when requested to do so by the LA or representatives of the DEPARTMENT.
- 4. In the event plans, surveys or construction staking are found to be in error during the construction of the PROJECT and revisions of the plans or survey or construction staking corrections are necessary, the ENGINEER agrees that he will perform such work without expense to the LA, even though final payment has been received by him. He shall give immediate attention to these changes so there will be a minimum delay to the contractor.
- 5. The 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. To make such changes in working plans, including all necessary preliminary surveys and investigations, as may be required after the award of the construction contract and during the construction of the improvement.
- 7. That all plans and other documents furnished by the ENGINEER pursuant to the AGREEMENT will be endorsed by him and will show his professional seal where such is required by law.
- 8. To submit, upon request by the LA or the DEPARTMENT a list of the personnel and the equipment he/she proposes to use in fulfilling the requirements of this AGREEMENT.

### The LA Agrees,

1.

	the Engineer as compensation for all services ance with one of the following methods indicate		paragraphs 1a, 1g, 1i, 2, 3, 5 and 6 in
a 🗌 b. 🗍	A sum of money equal to percentapproved by the DEPARTMENT. A sum of money equal to the percentage of the approved by the DEPARTMENT based on the Schedule for Percentages Based on Awarded	e awarded contract cost for following schedule:	cost of the proposed improvement as or the proposed improvement as
	Awarded Cost	Percentage Fe	ees
	Under \$50,000		(see note)
		A SALAN AND AND AND AND AND AND AND AND AND A	%
			%
		VII. 200	%
		P-2010	%
			9/0
	Note: Not necessarily a percentage. Could	use per diem, cost-plus o	r lump sum.

To pay for services stipulated in paragraphs 1b, 1c, 1d, 1e, 1f, 1h, 1j and 1k of THE ENGINEER AGREES at the hourly rates stipulated below for personnel assigned to this PROJECT as payment in full to the ENGINEER for the actual time spent in providing these services the hourly rates to include profit, overhead, readiness to serve, insurance, social security and retirement deductions. Traveling and other out-of-pocket expenses will be reimbursed to the ENGINEER at his actual cost. Subject to the approval of the LA, the ENGINEER may sublet all or part of the services provided under paragraphs 1b, 1c, 1d, 1e, 1f, 1j and 1k of THE ENGINEER AGREES. If the ENGINEER sublets all or a part of this work, the LA will pay the cost to the ENGINEER plus a five (5) percent service charge. "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.

Printed 5/15/2015 Page 3 of 5 BLR 05512 (Rev. 01/10/12)

Hourly Rate
70.00
39.50
27.00
54.00
17.00

Grade Classification

The hourly rates itemized above shall be effective the date the parties, hereunto entering this AGREEMENT, have affixed their hands and seals and shall remain in effect until 12/31/2015. In event the services of the ENGINEER extend beyond 12/31/2015, the hourly rates will be adjusted yearly by addendum to this AGREEMENT to compensate for increases or decreases in the salary structure of the ENGINEER that are in effect at that time.

The Total Not-to-Exceed Contract Amount shall be 193,587.16 as shown on the attached Exhibit A – Construction Engineering (Cost Estimate of Consultant Services)

- 3. That payments due the ENGINEER for services rendered pursuant to 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 based on the above fee schedule and 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 (excluding any fees paragraphs 1j and 1k of the ENGINEER AGREES), based on the above fee schedule and the awarded contract cost, less any previous payment.
  - c. Upon-completion of the construction of the improvement, 90 percent of the fee due for services stipulated in paragraphs 1j and 1k.
  - d. Upon completion of all final reports required by the LA and the DEPARTMENT and acceptance of the improvement by the DEPARTMENT, 100 percent of the total fees due under this AGREEMENT, less any amounts previously paid.

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 improvements be abandoned at any time after the ENGINEER has performed any part of the services provided for in paragraphs **1j and 1k**,and prior to the completion of such services the LA shall reimburse the ENGINEER for his actual costs plus 179.51 percent incurred up to the time he is notified in writing of such abandonment "actual cost" being defined as material costs plus actual payrolls, insurance, social security and retirement deductions and profit. Traveling and other out-of-pocket expenses will be reimbursed to the ENGINEER at his actual cost.
- 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 179.51 percent to cover profit, overhead and readiness to serve "actual cost" being defined as in paragraph 4 above. 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:
- 6. That should the LA extend completion of the improvement beyond the time limit given in the contract, the LA will pay the ENGINEER, in addition to the fees provided herein, his actual cost incurred beyond such time limit "actual cost" being defined as in paragraph 4 above.
- 7. To submit approved forms BC 775 and BC 776 with this AGREEMENT when federal funds are used for construction.

- 1. That any difference between the ENGINEER and the LA concerning the 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.
- 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 drawings, specifications, partial and completed estimates and data if any from traffic studies and soil survey and subsurface investigations construction documentation 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 the 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.

IN WITNESS WHEREOF, the parties have caused this AGREEMENT to be executed in quadru-triplicate counterparts, each

of which shall be considered as an original by their duly authorized offices. Executed by the LA: County of Lake of the (Municipality/Township/County) ATTEST: State of Illinois, acting by and through its County Board Lake County Clerk (Seal) Title: Chairman of the County Board RECOMMENDED FOR EXECUTION Paula J. Trigg, P.E. Director of Transportation/ County Engineer Lake County Executed by the ENGINEER: ATTEST: Melissa Bentz (M) () (M) Gerald W. Heimsoth

Note: Three (3) Original Executed Contracts – (2) Lake County; (1) Consultant

Printed 5/15/2015

Title: Corporate Secretary

Title: President

### Exhibit A - Construction Engineering

Lake County Division of Transportation Local Agency: Route: CH 27

(Municipality/Township/County) 14-00999-05-RS

Lewis Avenue Resurfacing Section: Project: Job No.:

\*Firm's approved rates on file with IDOT'S Bureau of Accounting and Auditing: Overhead Rate

144.11% 0.00 189

Complexity Factor

Working Days

Method of Compensation:

14.5%[DL + R(DL + OH(DL) + IHDC] 14.5%[DL + R(DL + 1.4(DL) + IHDC] 14.5%[2.3 + R)DL + IHDC]  $\boxtimes$   $\square$   $\square$   $\square$ Cost Plus Fixed Fee 2 Cost Plus Fixed Fee 3 Cost Plus Fixed Fee 1

Specific Rate Lump Sum

		Cost		Estimate of Consultant's Services in Dollars	ervices in Dollar	S	**************************************	n	The service of the se
Element of Work	Employee Classification	Man- Hours	Payroll Rate	Payroll Costs (DL)	Overhead*	Services by Others	In-House Direct Costs	Profit	Total
Construction Startup	*	96	\$33.26	\$3,192.77	\$4,601.09		(SQLE)	\$1,130.11	\$8,923.97
Pre-Construction Conference	*	18	\$33.26	\$598.64	\$862.71			\$211.90	\$1,673.24
Construction Observation / Documentation	*	1384	\$33.26	\$46,029.03	\$66,332.44		\$14,400.00	\$18,380.41	\$145,141.88
Project Close-out	*	376	\$33.26	\$12,505.00	\$18,020.95			\$4,426.26	\$34,952.21
Shop Drawing Review / Catalog Cut Review	*	8	\$33.26	\$266.06	\$383.42			\$94.18	\$743.66
Project Management & Administration	*	11	\$70.00	\$770.00	\$1,109.65			\$272.55	\$2,152.20
Totals		1893		\$63,361.50	\$91,310.26		\$14,400.00	\$24,515.40	\$193,587.16

\* See attached

# PREPARED BY THE AGREEMENTS UNIT

## Average Hourly Project Rates

		Date 05/15/15		Sheet 1 OF 1
		Ciorba Group, Inc		
		Consultant		
CH 27	14-00999-05-RS	Lake		
Roufe	Section	County	Job No.	PTB/ltem

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nent &	Wgtd	Avg	70.00														\$70.00
Project Management & Administration	%	Part.	100.00%														100%
Proje A	Hours		11														11
neering / is.	Wgtd	Avg	2.53	20.38	96.9	0.23	3.16									1	\$33.26
Construction Engineering / Phase III Assis.	%	Part.	3.61%	51.59%	25.77%	0.43%	18.60%										100%
Constr	Hours		99	971	485	8	350										1882
RATES		Avg	2.92	20.26	6.92	0.23	3.14										\$33.47
TOTAL PROJECT RATES	%	Part.	4.17%	51.29%	25.62%	0.42%	18.49%										100%
TOTA	Hours		62	971	485	8	350										1893
AVG		RATES	\$70.00	\$39.50	\$27.00	\$54.00	\$17.00										
PAYROLL		CLASSIFICATION	Project Manager	Resident Engineer	Construction Engineer	Structural Engineer	Engineer Intern										TOTALS

### STAFF HOUR SCHEDULE Lake County Division of Transportation Lewis Avenue Resurfacing

	_															2	2015							$\ $					Ш		П
				June				July	200	H		August	it.	Н		Sept	September			ő	October			Nove	November				December	er	
	Total Hours	6/1	8/9	6/15	6/22	6/58	7/6 7	7/13 7	7/20 7	727 8	8/3 8/	8/10 8/	8/17 8/2	8/24 8/31	31 9/7	7 9/14	4 9/21	9/28	3 10/5		10/18	10/12 10/19 10/26	11/2	11/9		11/23	11/16 11/23 11/30 12/7 12/14 12/21 12/28	12/7	12/14	12/21	12/28
Project Manager	62				4	2	4	4	4	5	4	4	4	5	4	4	4	2	4	4	4	2				2					2
Resident Engineer	971				30	40	40	45 4	45 4	45 4	45 4	45 4	45 4	45 45	5 45	5 40	40	40	40	40	40	40	24	24	24	24	16	16	16	16	16
Engineer	485							45 4	45 4	45 4	45 4	45 4	45 4	45 45	5 45	5 40	40														
Engineer Intern	350					40	40	45 4	45 4	45 4	45 4	45 4	45	$\dashv$	$\dashv$	4		$\dashv$	$\dashv$				$\Box$								
Structural Engineer	8					8					-		-	-	-				$\dashv$												
Vehicle Days	210					10	15	15	15	15	15 1	15 1	15 1	10 10	0 10	0 10	10	10	10	2	2	2				S	16				2
Project Manager - 79 hrs						9				17			-	17				21				14				7					5
Resident Engineer - 971 hrs						70				175			31	180				210				160				96					80
Engineer - 485 hrs						0			<u> </u>	135			37	180				170	6			0				0					0
Engineer Intern - 350 hrs						40				175			7.	135				0				0				0					0
Structural Engineer - 8 hrs						80				0			9	0				0				0				0					0
41 WD / 17 WD/Month = 2.5 months construction	nths constructi	ion			Proj Start	tart					Const	Construction	C				Punch	h						Closeout	eont						
Assume 7/6/15 Start Date Assume 9/18/15 Completion Date	Φ																														

### Lake County Division of Transportation STAFF HOURS

### **Lewis Avenue Resurfacing**

			116			
Таек Sub-Таек Activity		Project Manager	Resident Engineer Construction Enginee	Structural Engineer	Engineer Intern	ນເລາຍກາລວານອີດ-
				_		οž
1. Construction Engineering	1882 6	89	971 485	80	350	0.0
080 Construction Startup	96		55		40	0
Review Plans, Specifications and Contract Documents	σ		80			1
Layout C&G and sidewalk removals	80	4	40		4	40
Utility Coordination Including On-site Meetings	4		4			
Set Up Project Documentation	4	_	4	-		
081 Pre-Construction Conference	<del>2</del>	4	4			
Preparation	8		8		_	
Attendance	89	4	4			
Meeting Minutes	2		2			
083 Construction Observation / Documentation	1384	64	525 485	10	ઌ૽ૼ	310
Resident Engineer (9 weeks x 5 days/week x 9 hrs/day + 3 weeks x 5 days/week x 8 hrs/day)	525	5.	525			
Construction Engineer (9 weeks x 5 days/week x 9 hrs/day + 2 weeks x 5 days/week x 8 hrs/day)	485		485	5		
Engineer Intern (6 weeks x 5 days/week x 9 hrs/day + 1 weeks x 5 days/week x 8 hrs/day)	310				3,	310
Project Manager site visits (4 hrs/week x 16 weeks)	49	64			-	T
Teresona o	376		376			
084 Project Ciose-Out	a in		2			1
Develop Punch List Items	80		8			
Coordinate Punch List Completion	8		8		_	7
Inspect Punch List Items	8		8			T
Final Walk Through with Client	80		88		_	
Complete Documentation Including Material Certification	344	3	344		$\dashv$	

### STAFF HOURS

# Lewis Avenue Resurfacing

Lake County Division of Transportation

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nsetri reeringn								
structural Engineer	ì		ω	∞				
Sonstruction Engineer	)					•		
199nign∃ †n9bis9	1							
oroject Manager	1				77	7-	17	
			8	00	7.	<del>1</del>	1.5	·
	Subtotal:		Subtotal:		Task Total:	Subtotal:		
усцлцА	5 Construction Record Drawings	Plan Sheets Cross Sections	086 Shop Drawing Review / Catalog Cut Review	Pedestrian Bridge Demolition Plan	Project Management & Administration	010 Project Management & Administration	Project Management	

### **IN-HOUSE DIRECT COSTS**

### Lake County Division of Transportation Lewis Avenue Resurfacing PHASE III

### **Construction Engineering**

Description	Unit	Ur	nit Cost	Quantity	Ext	ended Cost
Copies	sheet	\$	0.10	1000	\$	100.00
Vehicle (mileage)	mile	\$	0.58	1200	\$	690.00
Vehicle (day)	day	\$	65.00	210	\$	13,650.00

Total: \$ 14,440.00