Legistar: 170275

#### RESOLUTION R 42-17

## A RESOLUTION AUTHORIZING SIGNATURE OF PRESIDENT AND CLERK ON AN AGREEMENT

WHEREAS, the Corporate Authorities of the Village of Lombard have received an Agreement between the Village of Lombard, and Cartegraph Systems Inc. regarding Pavement Inventory and Evaluation Services as attached hereto and marked Exhibit "A", and

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

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

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

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

Adopted this 20<sup>th</sup> day of July, 2017.

Ayes: Trustee Whittington, Fugiel, Foltyniewicz, Johnston, Pike and Ware

Nays: None

Absent: None

Approved this 20th day of July, 2017.

Keith T. Giagnorio Village President

ATTEST:

Sharon Kuderna Village Clerk



## **Purchase Agreement**

Cartegraph is pleased to present this Purchase Agreement for the implementation of world class technology solutions. This Purchase Agreement is made and entered into between Village of Lombard (hereinafter referred to as "Customer" or "Licensee" and Cartegraph Systems, Inc. (hereinafter referred to as "Cartegraph"). This Purchase Agreement is intended to supplement, clarify, and amend the Master Agreement previously executed between Cartegraph and Customer. In the case that any terms or conditions provided in the Master agreement differ from, are provided in more detail by, or are made irrelevant by the terms and conditions provided in this Purchase Agreement, the terms in this Purchase Agreement shall control. For all terms and conditions not addressed by this Purchase Agreement, the Master Agreement, #MA142 dated October 21, 2015 shall control.

Customer Bill To:	Customer Ship To:
Village of Lombard	Same
255 E. Wilson Avenue	
Lombard, Il 60148	
630-620-5712	

## **Investment Summary**

Cartegraph's proposed fees for this project are included in the summary below.

**Date:** May 17, 2017

Purchase Agreement September 29, 2017 **Expiration Date:** 

Purchase

#PA549

Agreement

No.:

,	Purchase Type	Qty.	Unit Price	Total Price
YEAR 1				
DATA SERVICES				
Data Services	Fixed Fee Service	1	\$57,700.00	\$57,700.00
TOTAL COST				\$57,700.00

NOTES:	The pricing listed above does not include applicable sales tax.

## **Payment Terms and Conditions**

In consideration for the Services and Products provided by **Cartegraph** to **Customer**, **Customer** agrees to pay **Cartegraph** Software Costs and Professional Service Fees in U.S. Dollars as described below:

- Delivery: Software Products shall be licensed upon acceptance of this Purchase Agreement. If applicable, Services
  will be scheduled and delivered upon your acceptance of this Purchase Agreement, which will be considered as your
  notification to proceed.
- 2. Services Scheduling: Customer agrees to work with Cartegraph to schedule Services in a timely manner. All undelivered Services shall expire 365 days from the signing of this Purchase Agreement, unless a delay in the delivery of Data Services is caused by Cartegraph, in which case the expiration date for the delivery of Data Services shall be extended a number of days equal to the number of days the delivery of Data Services is delayed by Cartegraph. The Force Majeure provision of Addendum C shall also apply to this Purchase Agreement.
- 3. **Data Services Invoicing:** Invoicing for the Data Services fee shall occur upon the acceptance of this Purchase Agreement and shall be invoiced as follows:
  - a. Installment 1 due upon commencement of pavement and/or street level mapping services 20% of pavement and/or street level mapping services, \$18,900.00.
  - b. Installment 2 due upon field completion of pavement and/or street level mapping services 35% of pavement / street level mapping services, \$16,975.00.
  - c. Installment 3 due upon completion of AQ/QC Process for Collected Data 35% of pavement / street level mapping services, \$16,975.00.
  - d. **Installment 4 due upon final delivery of data –** 10% pavement and/or street level mapping services, \$4,850.00.
- 4. **Expenses:** In providing the field services included in this Purchase Agreement, **Cartegraph** shall be reimbursed for any reasonable out-of-pocket costs, including, but not limited to, travel, lodging, meals, and cancellation fees. Out-of-pocket expenses are billed based on actual costs incurred and are due separately.
- 5. **Payment Terms:** Customer shall make all payments in accordance with the Illinois Local Government Prompt Payment Act.

BY EXECUTING THIS PURCHASE AGREEMENT, CUSTOMER ACKNOWLEDGES THAT IT HAS REVIEWED THE TERMS, CONDITIONS, FEES AND CHARGES PROVIDED HEREIN AND IN THE MASTER AGREEMENT, AS WELL AS ANY OTHER EXHIBITS TO THE MASTER AGREEMENT, AND CUSTOMER AGREES TO BE LEGALLY BOUND BY EACH SUCH AGREEMENT.

Cartegraph Systems, Inc.	Village of Lombard
(Signature)	(Signature)
Tim McCool	Heith Giagnorio
(Type or print name)	(Type or print name)
Title Director of Sales	Title Village President
Date	Date July 20, 2017

# Cartegraph Systems, Inc. Addendum C - Data Services (Fee for Service) Cartegraph Data Collection Services - Scope of Work

#### **Description of Data Services**

This Addendum C, executed as of May 16, 2017 (the "Effective Date"), and the Purchase Agreement (the "Purchase Agreement"), executed as of the same date hereof, are addendums to that certain Master Agreement #MA142 (the "Master Agreement") between Cartegraph Systems, Inc. ("Cartegraph") and the Village of Lombard ("Customer").

The data services (the "**Data Services**") listed in the *Investment Summary* of the Purchase Agreement are specific Cartegraph services which will be delivered to the Customer based on the descriptions below and on the terms and conditions and subject to the limitations set forth in this Addendum C, the Purchase Agreement and the Master Agreement. Cartegraph will coordinate with the Customer on service delivery expectations and timeframes.

## Cartegraph Data Collection Services - Scope of Work

Cartegraph Data Collection Services include the following:

## Project Initiation, Planning, and Management

#### **Project Orientation**

The Cartegraph project manager will schedule a remote project orientation meeting with the customer project team. During this meeting the entire project team will review the proposed project work plan, including scope of work, budget, schedule, and deliverables. The meeting may include:

- Introduction of the project team and their respective responsibilities
- Review the scope of work
- Review the work plan and schedule including milestone dates for data review, delivery, and acceptance
- Review the proposed Quality Management Plan (QMP) and expectations
- Information Exchange (gathering history, background, levels of service measures, decision making framework, and review/discuss all available information and data)
- Identification of the Customer's best practices on pavement/asset management. This component will provide an understanding of project success for both the Customer and Cartegraph team.
- Follow up documentation summarizing discussions and decisions. This shall include meeting minutes, final work plan deliverables, and mutually agreed upon adjustments to scope and delivery timelines.

#### Regular Progress Updates

Cartegraph will provide Customer with [monthly/bi-weekly] reports on the status of the project progress. The Status Reports may include the following:

Weekly written digital report

- Major issues faced on field operation, such as accidents or incidents that occurred, health and safety issues, traffic management, and remedial measures taken to resolve these issues
- Quality control and assurance practices
- Results of data validation / control / acceptance measures undertaken

## **Network Definition and Mapping**

#### Pavement Network Inventory - Build/Define Pavement Database

The first step in a pavement management process is definition of the pavement network. A pavement network is comprised of an inventory of the different physical characteristics of the roadway pavements being managed by the agency. This inventory may either be gathered by estimating the data or physically collecting the required information. The inventory may also be gathered from aerial imagery or publicly available data such as ESRI maps and Google maps. The exact type of inventory information required by an agency depends on what data will be used by the agency to support its management decisions.

The pavement network inventory includes streets within the jurisdiction of that agency that are broken into management sections, typically "block to block" or "intersection to intersection", and will contain (but not limited to) the items listed in the table below. The "Responsible Party" field identifies the party responsible (Cartegraph or Customer) for providing and populating the information.

Name	Roadway Network Item Description	Responsible Party
Cartegraph ID	Cartegraph generated unique Roadway ID for each roadway section record. Note: Cartegraph will use existing Asset ID if Customer is currently using OMS for pavement management	Cartegraph
Street	Roadway section street name - Cartegraph generated from GIS roadway centerline provided	Cartegraph
Street Back	Cartegraph generated route back street name limit from GIS street centerline provided	Customer
Street Ahead	Cartegraph generated route ahead street name limit from GIS street centerline provided	Customer
Functional Classification	Roadway Traffic Functional Classification - customer desired input i.e. Arterial, Collector, Local.	Customer
Pavement Type	Pavement Surface Type - gathered from Cartegraph field data collection	Cartegraph
Section Length	Roadway Section Length will be gathered from Cartegraph field data collection and/or customer's GIS street centerline file.	Cartegraph
Pavement Width	Customer required input. Note: Cartegraph can collect or populate this item at an additional cost.	Customer
Average Daily Traffic	Annual daily traffic - customer desired input – "if available"	Customer
Last Construction Date	Customer required input. Note: Cartegraph can estimate the Last Construction Date based on the current condition at an additional cost.	Customer
Owner Jurisdiction	Customer desired input  "i.e. State, County, City, Private – if available"	Customer

#### Task Assumptions:

a) Customer must provide GIS street centerline identifying the roadway network to be inventoried.

#### **Pavement Condition Assessment**

#### **Pavement Surface Distress Inspection**

Pavement inspectors will identify pavement distresses utilizing Cartegraph's pavement inspection guidelines based on the American Society for Testing and Materials ASTM D6433-11 Standard Practice for Roads and Parking Lots Pavement Condition Index Surveys. This standard is established by the American Society for Testing and Materials and is the industry standard for reporting results of pavement condition assessment.

The evaluation of the pavement surface distress is always based on three components:

- Type refers to 'What kind?' of distress or defect is present on the pavement surface.
- Severity is defined as 'How bad is the defect?' in terms of the measurement or degree of wear associated with the condition.
- Extent refers to quantity/percentage or 'How much?' of the pavement sample area is affected by a particular distress.

#### **Pavement Roughness Inspection**

Pavement smoothness is a key factor in determining roadway user satisfaction. To adequately represent drivers' opinions of roadway conditions, Cartegraph uses high-speed road profilers to measure roadway roughness or ride quality.

Cartegraph operates Class 1 (ASTM E950 compliant) ICC high-speed road profilers that calculate an International Roughness Index (IRI). Since its introduction in 1986, IRI has become the road roughness index most commonly used worldwide for evaluating and managing roadway networks and is required for data provided to the United States Department of Transportation's Federal Highway Administration (FHWA). The IRI data is converted to a ride condition index, RCI, so that each section will have a ride score ranging from 1-100. This RCI can then be combined with PCI to produce an overall condition index (OCI) for every roadway section.

#### **Quality Management Plan**

Cartegraph has implemented several tasks throughout the data collection and data processing phases to insure the Customer receives accurate data. The following is a list of tasks that make up Cartegraph's Quality Management Plan:

- Mandatory annual pavement rater course and examination on the pavement rating process per the ASTM D6433-11 standard
- Thorough review of the street network shapefile prior to data collection to identify and address any mapping issues that may lead to data collection errors
- Daily equipment calibration
- Daily intra-rater checks during pavement inspection (no less than two pavement inspectors are deployed on every collection project)
- Inter-rater checks on 10 percent of the segments to insure collected data meets acceptance criteria
- Thorough pavement distress data review after data processing

## **Pavement Management Program Optimization & Deployment**

#### **Pavement Condition Data Load**

All collected pavement distress data will be loaded into the Customer's database by the Cartegraph team. The pavement distress data will then be used to calculate the pavement condition index (PCI). Upon receiving the program data from Cartegraph, the customer must review and accept all condition data supplied within 60 calendar days, provided no discrepancy or issue is found with the delivered data. Unless the Customer notifies Cartegraph in writing of a discrepancy or issue with the delivered pavement distress data within 60-day period, the Customer will be deemed to have accepted the delivered pavement distress data.

#### Review gaps in Cartegraph OMS Pavement data

In order to take full advantage of the pavement management system's functionality, and in order for customer staff to have confidence in the system-generated results and recommendations, it is imperative that the program contains the most complete, accurate, and up-to-date network data available.

Cartegraph will conduct a full review of the data available within the pavement management system and provide recommendations for necessary changes.

Cartegraph's review may include the following:

- Basic inventory information, (i.e. Functional Classification, Length, Width, Area, Surface Type, etc.)
- Prediction Groups and Minimum Condition Groups
- Historical condition information, if any
- Status of survey history, if any
- Construction and maintenance history, if any
- Review of maintenance and rehabilitation treatments, unit costs, and protocols

#### **Budget and Condition Scenario Analysis**

Multiple funding and target condition scenarios may be analyzed to answer "what-if" questions an agency may have. To determine how much funding is needed, the agency's pavement management system priority programming tools will be utilized to generate alternative plans for various budget stream scenarios. Our team will perform up to five (5) scenario runs based on input from the Customer. Typical funding scenarios may include:

- · Existing (current) funding levels
- Do Nothing (No Funding)
- Unlimited funds
- Funding levels required to maintain/ increase/ decrease the OCI/PCI over time
- Funding levels to decrease or eliminate backlog over time

## **Pavement Management Program Report**

Cartegraph's project team will provide a pavement management technical report that shall include:

- Network Summary Statistics ~ Summary of roadway network by functional class and pavement type.
- Condition (Present Status) ~ listing of every roadway section, latest performance (OCI/PCI), & inspection date.
- Budget and Condition Scenarios

## **Council Board / Agency Presentation**

Our team will assist the agency in providing oral presentation of findings and recommendations to the Council, Agency Manager, and/or specific employee groups. The presentation will describe the tasks and deliverables of this project and illustrate the long-term effects that the proposed budget would have on agency streets along with additional funding that may be required for future planning.

#### **Task Assumptions**

a) Presentation includes a PowerPoint presentation and the presentation and associated meeting takes no more than 3 hours.

### **Overall Scope Assumptions**

- Includes one time mobilization to Lombard, IL
- Up to 148 centerline miles of pavement condition data capture on publically accessible and maintained roadways.
- If payement width is not available, a default value will be determined during the needs assessment

## **Customer Responsibility**

For the duration of the project, the customer will be responsible for the following:

- Appoint a project manager/coordinator to be responsible for all aspects of the project.
- Review scope of work
- Ensure all scheduled meetings are attended by invited staff.
- Approve Project Status Reports
- Authorize project work
- Accept agreed upon deliverables defined in the scope of work
- Consult and partner with the Cartegraph Project Manager on a continuing basis
- Provide leadership on all issues related to the customer, such as policy, organization, staff, technical architecture, data, and current systems.
- Monitor progress of the project, including the review of Cartegraph regular status reports and managing internal resources.

#### **Exclusions**

The following service items are not included in the scope of this project:

 Any service items discussed during demonstrations, conference calls, or other events are not included in the scope of this project unless specifically listed herein.

Modifications to the contract shall comply with all Federal, State, and local regulations.

#### Customer Responsibilities

Customer accepts responsibility for all aspects of project planning, management, and execution not specifically identified as the responsibility of Cartegraph in this Addendum C, the Master Agreement or the Purchase Agreement. Ongoing management of the day-to-day allocation of Customer resources and management of Customer project tasks is the responsibility of Customer. Customer will provide overall guidance and direction for the project and will direct the project accordingly. Further, and with regard to the Cartegraph obligations listed in this Addendum C, Customer understands that it is vital to the success of the project that Customer provides assistance in the following matters:

- 1. For those services listed under Data Services, Cartegraph personnel will conduct information gathering and evaluation sessions with various Customer users and management. While Cartegraph respects the time and workload of Customer staff, dedicated time on the part of the appropriate Customer resources is necessary to complete these exercises.
- 2. The Data Installation process requires the assistance of Customer personnel and suitable access to hardware and systems (e.g., security clearance). Customer is required to supervise the Data Installation process while systems are accessible to Cartegraph. All hardware and software, including the Customer's workstation platform and database, is expected to be available, installed, and operating as specified in Cartegraph's System Requirements documentation such that the Data Installation process and the delivery and execution of Cartegraph Data Services will not be impeded. Cartegraph shall not be liable to Customer for any damage sustained to the Customer Database or any data contained therein or any hardware or software of Customer utilized by Cartegraph in connection with the Data Installation, unless intentionally damaged by Cartegraph or caused by negligent or willful and wanton acts of Cartegraph.
- 3. Customer understands that the successful performance of Data Services depends upon Customer fulfilling its responsibilities, including that Customer will provide all personnel required to achieve a successful implementation.
- 4. Customer shall install and network its own hardware and communications and ensure these tasks will not affect the timing or delivery of Cartegraph services.
- 5. Customer will provide Internet access and IT staff support as required. For those services that are web-based, Cartegraph utilizes WebEx Meeting (or similar) technology.
- 6. Customer agrees to work with Cartegraph to schedule services in a timely manner. All undelivered Data Services shall expire 365 days from execution of this Addendum C, unless a delay in the delivery of Data Services is caused by Cartegraph, in which case the expiration date for the delivery of Data Services shall be extended by a number of days equal to the number of days the delivery of Data Services is delayed by Cartegraph. Upon expiration of services, the project may be cancelled at Cartegraph's discretion.
- 7. Except for the submission of payment when due, neither Party shall be liable for any failure or delay of performance to the extent that such failure or delay is caused by reason of acts of God, wars, revolution, civil commotion, acts of public enemy, embargo, restraint or hindrance by any governmental or regulatory authority including, without limitation, unfavorable actions or failures to act of or by such authorities, labor difficulties, including without limitation, strikes, slowdowns, picketing or boycotts (involving third parties unrelated to the Party invoking the terms of this Section), or any other circumstances beyond the reasonable control and not involving any fault or negligence of the Delayed Party (each a "Force Majeure Event"). If any such Force Majeure Event occurs, the Party delayed or unable to perform ("Delayed Party"), upon giving prompt notice to the other Party, shall be excused from such performance or non-performance, as the case may be, under this Purchase Agreement on a day-to-day basis during the continuance of such Force Majeure Event (and the other Party shall likewise be excused from performance of its obligations on a day-to-day basis during the same period); provided, however, that the Party so affected shall use commercially reasonable efforts to avoid or remove such Force Majeure Event, and both Parties shall proceed as quickly as possible under the circumstances with the performance of their obligations under this agreement whenever such causes are removed or cease.

#### **Limitation of Liability**

Customer acknowledges and agrees that Customer's use or nonuse and any reliance upon the data provided as part of the Data Services is at Customer's own risk, and that no representations or warranties are provided by Cartegraph with respect to the Data Services except as expressly set forth herein and in the Master Agreement. Each party agrees to be responsible for its own liability incurred as a result of its participation in this Agreement.

#### **Appropriations**

It is expressly acknowledged that the Customer is a non-home rule municipality operating under limitations imposed by Illinois law." Then, the Village can be referred to as the "Customer" throughout the rest of the provision for the purpose of consistency. Notwithstanding any other provision of this Agreement, with respect to any financial obligation of the City which may arise under this Agreement in any fiscal year after the year of execution, in the event the budget or other means of appropriation for any such year fails to provide funds in sufficient amounts to discharge such obligation ("Funding Failure"), (i) the City shall notify the Company immediately upon discovery of such Funding Failure, (ii) the City shall have the option to terminate this Agreement at such time as the then-existing and available appropriations are depleted; provided that the City shall have satisfied all outstanding payment obligations owed to the Company prior to such termination, and (iii) except as set forth in section (ii) above, neither such Funding Failure nor termination shall constitute a default or breach of this Agreement, including any sub-agreement, attachment, schedule, or exhibit thereto, by the City. As used herein, the term "appropriation" shall mean and include the due adoption of an appropriation ordinance and budget and the approval of a Budget Detail Report (Resource Allocations) which contains an allocation of sufficient funds for the performance of fiscal obligations arising under this Agreement. The funds appropriated for this Agreement are equal to or exceed the Agreement amount for the year in which this Agreement was awarded.

#### **Term**

The term of this Addendum C shall commence as of the Effective Date and shall continue for a period of one (1) year (the "Term"), unless terminated earlier as provided for in the Purchase Agreement, Master Agreement or this Addendum C..

#### **Not-to-Exceed Proposal**

Cartegraph will not exceed the total included in the Purchase Agreement without written approval from Customer. In the event it becomes apparent to Cartegraph that additional service efforts will be needed due to any changes in the scope of this Addendum C or the Purchase Agreement, Cartegraph will notify Customer prior to exceeding the approved efforts and obtain written approval if additional Software or Data Services are required.

[Signatures appear on following page]

BY EXECUTING THIS ADDENDUM C, CUSTOMER ACKNOWLEDGES THAT IT HAS REVIEWED THE TERMS, CONDITIONS, FEES AND CHARGES PROVIDED HEREIN AND IN THE MASTER AGREEMENT AND THE PURCHASE AGREEMENT AS WELL AS ANY OTHER EXHIBITS AND ADDENDUMS TO THE MASTER AGREEMENT, AND CUSTOMER AGREES TO BE LEGALLY BOUND BY EACH SUCH AGREEMENT.

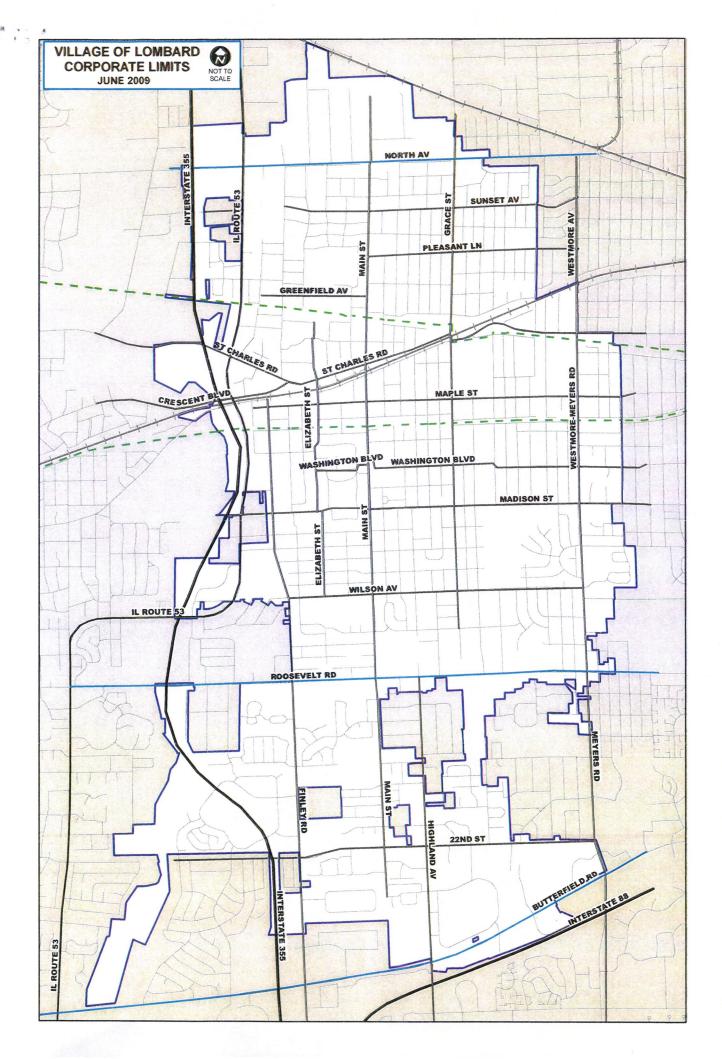
Cartegraph Systems, Inc.	Village of Lombard
By \	By A
(Signature)	(Signature)
Tim McCool	19eith Giagnorio
(Type or print name)	(Type or print name)
Title Director of Sales	Title Village President
Date 7/5/17	Date July 20, 2017



## Resolution for Improvement Under the Illinois Highway Code



		Resolution No	umber	Resolution Type	Section Number
		R42-17		Original	17-00159-00-EG
BE IT RESOLVED, by the President and Boa	rd of Trustee	s	of the	Village	
Govern	ning Body Type		_ 01 1110		Public Agency Type
of Lombard	Illinois t	hat the follow	ing desc	ribed street(s)/road(s	)/structure be improved under
Name of Local Public Agency	Contract				
the Illinois Highway Code. Work shall be done by	Contract or Da	v Labor			
For Roadway/Street improvements:	00/11/00/07/20	, Labor			
Name of Street(s)/Road(s)	Length (miles)	Route		From	То
+ Entire Village Roadway Network	148.65				
For Structures:	J. Commission of the Commissio				
Name of Street(s)/Road(s)	Existing Structure No.	Route		Location	Feature Crossed
+					
BE IT FURTHER RESOLVED,					
That the proposed improvement shall consist of the proposed improve					
Performing a pavement network inventor Roughness Inspection, Pavement Condi Budget and Condition Scenario Analysis	tion Data Loa	ad (into exis	sting as	set/pavement ma	anagement system),
That there is hereby appropriated the sum of	Fifty Seven T	housand S	even H	undred	
				57,700.00	) for the improvement of
said section from the Local Public Agency's allotn BE IT FURTHER RESOLVED, that the Clerk is he		el Tax funds.			
of the Department of Transportation.	× × × × × × × × × × × × × × × × × × ×				
I, Sharon Kuderna	Village		C	lerk in and for said V	'illage
Name of Clerk		blic Agency Ty			Local Public Agency Type
of Lombard	in the S	tate aforesaid	d, and ke	eper of the records a	nd files thereof, as provided by
Name of Local Public Agency				•	, ,
statute, do hereby certify the foregoing to be a tru	e, perfect and co	omplete origin	nal of a re	esolution adopted by	
President and Board of Trustees of	Lombard			at a meeting he	eld on July 20, 2017
Governing Body Type	Name of	Local Public A	gency		Date
IN TESTIMONY WHEREOF, I have hereunto set	my hand and se	al this 20th		of July, 2017 Month, Year	
(SEAL)	Clo	rk Signature			
		Shar	n	Kuderr	
	1			Approved	
	Reg	gional Enginee			
		partment of Tra		n	Date
		at.	5	2 Duiley	/MS 7/28/17



•					
Municipality Lombard	L O C Illinois Department of Transportation	Name C Cartegraph Systems, Inc.			
Township Milton & York	A L Preliminary Engineering A Services Agreement	N Address 3600 Digitial Drive			
County DuPage	G For E Motor Fuel Tax Funds	T City A Dubuaue			
Section 17-00159-00-EG	C Y	T State lowa			
improvement of the above SECTION. supervision of the State Department of	red into this 20th day of July ER) and covers certain professional engined Motor Fuel Tax Funds, allotted to the LA by f Transportation, hereinafter called the "DEP described under AGREEMENT PROVISION	the State of Illinois under the general PARTMENT", will be used entirely or in part			
	Section Description				
Name Entire Village roadway netwo	rk				
Route Length _1	48.65 Mi. 784898.00 FT	(Structure No)			
Termini Entire Village roadway netv	vork - refer to attached map				
Description: Performing a pavement network inven	tory. See attached proposal.				
	Agreement Provisions				
The Engineer Agrees,					
	ne performance of the following engineering fore described, and checked below:	services for the LA, in connection with the			
a.   Make such detailed survey	s as are necessary for the preparation of de	tailed roadway plans			
<ul> <li>Make stream and flood plain hydraulic surveys and gather high water data, and flood histories for the preparation of detailed bridge plans.</li> </ul>					
c. Make or cause to be made such soil surveys or subsurface investigations including borings and soil profiles and analyses thereof as may be required to furnish sufficient data for the design of the proposed improvement. Such investigations are to be made in accordance with the current requirements of the DEPARTMENT.					
	such traffic studies and counts and special le design of the proposed improvement.	intersection studies as may be required to			
<ul> <li>e.  Prepare Army Corps of Eng Bridge waterway sketch, an agreements.</li> </ul>	gineers Permit, Department of Natural Reso nd/or Channel Change sketch, Utility plan ar	urces-Office of Water Resources Permit, nd locations, and Railroad Crossing work			
	e design and Hydraulic Report, (including eco oadway overflows and bridge approaches.	onomic analysis of bridge or culvert types)			
with five (5) copies of the p	d detailed plans, special provisions, proposal lans, special provisions, proposals and estinal Il be furnished to the LA by the ENGINEER	nates. Additional copies of any or all			
h. Furnish the LA with survey easement and borrow pit a as required.	and drafts in quadruplicate of all necessary nd channel change agreements including pr	right-of-way dedications, construction rints of the corresponding plats and staking			

Note: Four copies to be submitted to the Regional Engineer

5	3				
4.	i. Assist the LA in the tabulation and interpretation of the contractors' proposals				
	j. Prepare the necessary environmental documents in accordance with the procedures adopted b DEPARTMENT's Bureau of Local Roads & Streets.	y the			
	k.   Prepare the Project Development Report when required by the DEPARTMENT.				
(2)	) That all reports, plans, plats and special provisions to be furnished by the ENGINEER pursuant to the be in accordance with current standard specifications and policies of the DEPARTMENT. It is being ur such reports, plats, plans and drafts shall, before being finally accepted, be subject to approval by the DEPARTMENT.	nderstood that all			
(3)	) To attend conferences at any reasonable time when requested to do so by representatives of the LA or	r 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 he will perform such work without exper though final payment has been received by him. He shall give immediate attention to these changes s minimum delay to the Contractor.	nse to the LA, even			
(5)	5) That basic survey notes and sketches, charts, computations and other data prepared or obtained by the Engineer pursuant to this AGREEMENT will be made available, upon request, to the LA or the DEPARTMENT without cost and without restriction or limitations as to their use.				
(6)	) That all plans and other documents furnished by the ENGINEER pursuant to this AGREEMENT will be and will show his professional seal where such is required by law.	e endorsed by him			
Th	ne LA Agrees,				
1.	To pay the ENGINEER as compensation for all services performed as stipulated in paragraphs 1a, 1g, accordance with one of the following methods indicated by a check mark:	1i, 2, 3, 5 and 6 in			
	a. A sum of money equal to percent of the awarded contract cost of the proposed approved by the DEPARTMENT.	d improvement as			
	b.  A sum of money equal to the percent of the awarded contract cost for the proposed improveme the DEPARTMENT based on the following schedule:	nt 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.				
2.	performing such work plus percent to cover profit, overhead and readiness to serve - "actual as material cost plus payrolls, insurance, social security and retirement deductions. Traveling and other expenses will be reimbursed to the ENGINEER at his actual cost. Subject to the approval of the LA, the sublet all or part of the services provided under the paragraph 1b, 1c, 1d, 1e, 1f, 1h, 1j & 1k. If the EN or part of this work, the LA will pay the cost to the ENGINEER plus a five (5) percent service charge.	cost" being defined er out-of-pocket ne ENGINEER may GINEER sublets all			
	"Cost to Engineer" to be verified by furnishing the LA and the DEPARTMENT copies of invoices from t work. The classifications of the employees used in the work should be consistent with the employee of the services performed. If the personnel of the firm, including the Principal Engineer, perform routine should normally be performed by lesser-salaried personnel, the wage rate billed for such services shall	lassifications for services that			

Printed 7/5/2017 Page 2 of 4 BLR 05510 (Rev. 11/06)

commensurate with the work performed.

- 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.

4.	That, should the improvement be abandoned at any time after the ENGINEER has performed any part of the services provided for in paragraphs 1a, through 1h and prior to the completion of such services, the LA shall reimburse the ENGINEER for his actual costs plus percent incurred up to the time he 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 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

#### It is Mutually Agreed,

set of plans and specifications.

- 1. That any difference between the ENGINEER and the LA concerning their interpretation of the provisions of this Agreement shall be referred to a committee of disinterested parties consisting of one member appointed by the ENGINEER, one member appointed by the LA and a third member appointed by the two other members for disposition and that the committee's decision shall be final.
- 2. This AGREEMENT may be terminated by the LA upon giving notice in writing to the ENGINEER at 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.

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Approved
7/28/17

Date
Department of Transportation

Regional Engineer