	3								
Municipality City of Peoria		0			CO	Name Hanson Professional So	ervices		
Township Peoria		A L		Preliminary Engine		N S U	Address 7625 N. University St	Suite 200	
Cour	nty				Services Agreement For	L	City		
Ped			G E N	Мо	tor Fuel Tax I	unds	A	Peoria	
Section 16-00358-02-PV			C	\	Work Order 16	5-02	T	State	
10-0		1-02-1 V	Υ					IL	
Age impi supi	ncy (l rovem ervisio	REEMENT is made and enternal APP and Consultant (ENGINER IDENTITY IN THE REPORT OF THE STATE APP APP APP APP APP APP APP APP APP AP	ER) Mote Tra	and covers or Fuel Tax ansportation.	Funds, allotted hereinafter ca	sional engineer to the LA by t lled the "DEPA	he S	State of Illinois under the	th the
				Se	ection Descrip	otion			
Nan	ne _	Sheridan Road							
Rou	te _	FAU 6595 Length 0.2	26	Mi.	1,370	FT		(Structure No.)
Terr	nini	Richmond Ave. to Eleanor F	Place	9					
Full-	criptio depth	n: pavement removal/replacem proposed 3-lanes for length o	ent;	curb, sidew oiect. Two i	alk, and retair	ing wall recons	struc	ction; roadway width chan	ging from ex.
					eement Provi		otou.	. (Occ 111 Oncet)	
he E	ngin	eer Agrees,							
1. i	To pe propo	rform or be responsible for the sed improvements herein befo	e pe	rformance o described, a	of the following and checked be	engineering selow:	ervic	ces for the LA, in connecti	on with the
á	a. 🛛	Make such detailed surveys	as a	are necessa	ry for the prep	aration of deta	iled i	roadway plans	
ŀ	o. 🗌	Make stream and flood plain of detailed bridge plans.	hyc	lraulic surve	ys and gather	high water dat	a, a	nd flood histories for the p	oreparation
(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.								
(d. 🗌	Make or cause to be made s furnish sufficient data for the	uch des	traffic studie	es and counts roposed impro	and special int vement.	erse	ection studies as may be i	required to
•	e. 🗌	Prepare Army Corps of Engil Bridge waterway sketch, and agreements.	neei I/or	rs Permit, De Channel Ch	epartment of Nange sketch, I	latural Resourd Utility plan and	ces- loca	Office of Water Resource ations, and Railroad Cross	es Permit, sing work
f	. 🗆	Prepare Preliminary Bridge of and high water effects on roa	lesig adwa	gn and Hydr ay overflows	aulic Report, (and bridge a	including econoproaches.	omic	c analysis of bridge or cul	vert types)
g	J. 🛛	Make complete general and with five (5) copies of the pla documents, if required, shall	ns,	special prov	risions, propos	als and estima	tes.	Additional copies of any	or all
h	h. Furnish the LA with survey and drafts in quadruplicate of all necessary right-of-way dedications, construction easement and borrow pit and channel change agreements including prints of the corresponding plats and staking as required.						uction and staking		

Note: Four copies to be submitted to the Regional Engineer

REEMENT, will rstood that all and the
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s approved by
e note)
etual cost of " being defined

	as material cost plus payrolls, insurance, social security and retirement deductions. Traveling and other out-of-pocket expenses will be reimbursed to the ENGINEER at his actual cost. Subject to the approval of the LA, the ENGINEER may sublet all or part of the services provided under the paragraph 1b, 1c, 1d, 1e, 1f, 1h, 1j & 1k. If the ENGINEER sublets all or 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.
2.	That payments due the ENGINEER for services rendered in accordance with this AGREEMENT will be made without retainage upon receipt of monthly invoices from the ENGINEER. Such invoices shall be for partially completed work less all previous partial payments paid to the ENGINEER. Payments shall be made as soon as practicable after receipt of each invoice. the services have been performed in accordance with the following schedule:
	 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.
3.	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 the time and expense incurred up to the time the ENGINEER is notified in writing of such abandonment. <u>"actual cost" being defined as in paragraph 2 of THE LA AGREES.</u>
4.	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 a time and expense basis as calculated in Exhibit B. the basis of actual cost pluspercent 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,

- 1. That any difference between the ENGINEER and the LA concerning their interpretation of the previsions 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.
- 1. 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 centract 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.
- 2. 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.
- 3. That this Work Order (WO 16-02) is subject to all terms and conditions of the Standard Agreement for Professional Services between the CITY and ENGINEER dated April 12, 2016.

IN WITNESS WHEREOF, the parties have caused the which shall be considered as an original by their duly	he AGRE y authoriz	EEMENT zed office	to be executed in quadruplicate counterparers.	rts, each of
Executed by the LA:				
		City o	f Peoria (Municipality/ Township/County)	of the
ATTEST:		State	of Illinois, acting by and through its	
Ву		City	Council	
	Clerk	Ву		
(Seal)		Title	Reviewed and Approved	
REVIEWED AND APPROVED:				
Corporation Counsel		_		
han-				
Public Works Director		_		
Executed by the ENGINEER:		Hans	on Professional Services Inc.	
		7625	N. University St., Suite 200	
ATTEST:		Peor	a, IL 6161 ∦	
By Sathren		Ву	Juanda a Jos	
Title Associate		Title	Vice President	
Approved				
Date				
Department of Transportation				
Regional Engineer	-			

WORK ORDER NO.: 16-02 Hanson EXHIBIT A: SCOPE OF SERVICES SHERIDAN ROAD: RICHMOND AVE. TO ELEANOR PLACE SECTION NO. 16-00358-02-PV

Hanson Professional Services Inc. shall prepare project development studies and design plans, specifications and estimates for an improvement of Sheridan Road from Eleanor Pl. to Richmond Ave., in the City of Peoria for the City of Peoria (CITY). The proposed improvements include sidewalks, curbs, gutters, roadway profile and alignment adjustment, on-street bike lanes, on-street parking areas, and storm sewers.

The Project shall be designed in accordance with Motor Fuel Tax (MFT) standards and Specifications of the Illinois Department of Transportation, except as may be modified or approved by the City of Peoria Public Works Department.

Plans will be prepared in English units (feet) using Microstation software in accordance with CAD conventions of the Illinois Department of Transportation (IDOT) in IL State Plane Coordinates (East Zone).

SERVICES: The Scope of Services will be limited to the following:

- A. The corridor boundaries for data collection are along Sheridan Road from Eleanor PI. to Richmond Ave. Data collection will extend 100 ft along each minor side road and 500 ft along each leg of Nebraska Ave.
- B. Study Surveying and Mapping (Quigg Engineering)
 - 1. Pickup survey for retaining wall and door locations.
 - 2. Right of way plats and legal description preparation for nine (9) parcels. Obtain title commitments for all right of way parcels. No plats will be provided for Temporary easements.
 - 3. Stake ROW corners and temporary easements for 9 properties. Stake temporary easements for an additional 35 properties.

C. Additional Public Involvement

- 1. Conduct public involvement activities to seek public input on the project. Public involvement activities will include:
 - i. One (1) additional meeting with property owners from Nebraska to Gale.
- 2. Exhibits will be prepared for the meetings.

D. Environmental Studies

- 1. Update Preliminary Environmental Site Assessment (PESA).
- Conduct Preliminary Site Investigation (PSI) for properties identified in PESA as having RECs.
- 3. Update biological Clearance.

E. Traffic Studies

 Revise intersection design studies (IDS) for IDOT review at the Sheridan Road and Nebraska Avenue intersection to reflect the change to paver bike lanes the resulting shift of the curb lines in by 6 inches on either side.

1

2. Meeting with City to discuss intersection design

3. Meeting with IDOT to discuss IDS comments

4. Prepare variance forms for each intersection for IDOT approval

F. Storm Water Drainage Design

1. Review known flooding history and any existing drainage deficiencies which are brought to the attention of the design engineer.

- Storm water drainage will be designed in accordance with the current edition of the IDOT Drainage Manual. It is anticipated that the hydrology will be designed using the Rational Method & ISWS Bulletin 70. It is anticipated that the conveyance system will be storm sewers with the inlet spacing, capacity and hydraulic grade line designed per IDOT standards.
- 3. Existing conditions will be compared against proposed design to determine recommendations for upgrading the existing system. Recommendations will be based upon the incremental cost to upgrade the existing system to current design standards against the severity of known deficiencies.

4. Based upon the most recent FEMA mapping, the mapped floodplain for Big Hollow Creek within the vicinity is Zone A6. It is not anticipated that any modifications or adverse impacts to any regulatory floodplain will be necessary for the proposed improvements.

- 5. Research and investigate available green infrastructure options and determine which may offer a benefit to the project and to the CITIES CSO reduction goals. The proposed improvement will be analyzed to determine if green infrastructure options (i.e. stormwater infiltration) can be used to provide adequate stormwater detention. Where infiltration is not feasible, stormwater runoff may be detained and slowly released in accordance with standard detention methods. Develop details and requirements for the implementation of the selected options for the project.
- 6. Calculate storm water benefits of using permeable pavers for the bike lane.

7. Coordinate with supplier on layout for brick pavers.

8. Design calculations will be submitted to the CITY for review.

G. Erosion Control

1. Plans will be prepared in accordance with the requirements of the Illinois Environmental Protection Agency using the standards of the Illinois Department of Transportation.

 Prepare Storm Water Pollution Prevention Plan (SWPPP) in accordance with the National Pollutant Discharge Elimination System (NPDES) Permit No. ILR10 (Permit ILR10), issued by the Illinois Environmental Protection Agency (IEPA) for storm water discharges from construction site activities.

H. Roadway Geometric Design

- 1. Prepare additional pavement designs in accordance with IDOT's Local Roads Manual to evaluate following options as requested by the City:
 - Mill and Overlay
 - ii. Prepare HMA pavement design in accordance with IDOT's Local Roads Manual.
- 2. Develop typical sections. Revise typical sections to incorporate the paver bike lanes.
- 3. Revise intersection grading for change to paver bike lanes.
- 4. Prepare plan and profile sheets (@ 1"=20' H., 1"=5' V.) and cross sections every 25' for the project limits. Update plan and profile sheets based on bike lane changes.
- 5. Revise cross sections and corridor modeling for change to paver bike lanes.
- 6. Identify limits of right-of-way and temporary easement needs.
- 7. Design sidewalk ramps at each intersection in compliance with ADA/PROWAG guidelines including detailed layout and grading information.

- 8. Redesign sidewalk ramps at each side street intersection based on updated paver bike lane geometry.
- 9. Coordination with CityLink for bus stop locations and paved area for benches.
- 10. Coordination with utility companies.
- 11. Determine utility conflicts and make adjustments as necessary. Determine necessary utility relocations.
- 12. Revise sidewalk location to provide room for Ameren poles to remain.

I. Roadway Lighting

- 1. Hanson will provide engineering design and construction documents for roadway and pedestrian lighting.
- 2. Roadway lighting will be designed to match lighting installed on Forrest Hill Avenue.
- 3. Roadway lighting calculations will be submitted to CITY for review.
- 4. Interface with an existing lighting controller or provide a new electrical service and controller as required to provide power and control for the new lighting.
- 5. Lighting design plans showing fixture layout and circuit routing.
- 6. Lighting detail plans to show foundations, controllers, poles and fixtures.
- 7. Special provisions will be provided for all non-standard items.
- 8. A summary of quantities and an opinion of probable construction cost will be provided.
- 9. Coordination with the utilities and City questions/comments is included.
- J. Preparation of necessary plans and specifications, which include the following minimum items:
 - 1. Title Sheet (w/ Sheet Index)
 - 2. General Notes, Standard List, Legend/Abbrev.
 - 3. Summary of Quantities Sheets
 - 4. Schedule of Quantities
 - 5. Existing/Proposed Typical Sections
 - 6. H/V Control Schematic including control points and any required curve data
 - 7. Control ties, TBM Locations
 - 8. Right-of-way Plans
 - 9. Stage Construction / Maintenance of Traffic Plans
 - 10. Removals/Relocations Plan
 - 11. Plan / Profile Sheets (1" = 20' H & 1" = 5' V)
 - 12. Storm Water Pollution Prevention Plan (SWPPP)
 - 13. Storm Sewer Plans and Details
 - 14. Intersection Details
 - 15. Sidewalk Ramp Details
 - 16. Pavement Marking / Signing and Details
 - 17. Miscellaneous Details
 - 18. Lighting Plans and Details
 - 19. Traffic Signal Plans and Details
 - 20. Cross Section Sheets (with cross-sections every 50' (min.) and at all driveways)
 - 21. Details (CITY Standards, special details, misc., etc.)
 - 22. Retaining Wall Plans and Details
 - 23. State Standard Drawings (compile)
- K. Preparation of Opinion of Probable Construction Cost and Estimate of Time

- L. Special Provisions Copy and revise for second plan set
 - 1. Provide special provisions covering construction work.
 - 2. Prepare special provision for every pay item not being constructed per the standard.
 - 3. Provide in digital format (Microsoft Word).
 - 4. Prepare Bidding Documents on CITY forms

M. Quality Assurance

Provide proper quality assurance prior to sending any construction plans and specifications for review. The following items as a minimum will be reviewed prior to submitting any construction plans or specifications for review:

- 1. Every item shown in the construction plans either has a pay item or is specifically discussed in a pay item special provision.
- 2. Items to be constructed have been reviewed for constructability and directly correspond to a standard pay item or a special provision.
- 3. Existing utilities have been checked against proposed facilities for horizontal and vertical conflict (based on information received from the utility companies) during construction.
- 4. Address CITY comments and concerns.
- N. Project Deliverables:
- 3 Sets and Special Provisions and one pdf set
- 90% Pre-final Documents
 Final Construction Documents
- 5 Sets and Special Provisions and one pdf set
- O. Project Progress Reviews: Project progress review meetings will be held at the following milestones:
 - 1. Preliminary Geometric Design
 - 2. 90% Pre-final Construction Documents
- P. Project Management
 - 1. Coordination with CITY
 - 2. Coordination with IDOT
 - 3. Meetings to discuss project
 - 4. Staffing and Management Plan
 - 5. Financial and schedule controls
- Q. Construction Questions
 - 1. Provide 80 hours to answer construction questions
- R. The following items are not included in the scope of work but could be provided as an addendum to the contract:
 - Construction observation activities
 - 2. Attendance at pre-bid or pre-construction meetings
 - 3. Shop drawing review
 - 4. Sewer televising
 - 5. Section 106 statement or mitigation for cultural resource impacts
 - 6. Section 4(f) evaluation
 - 7. NEPA documentation, i.e., EA, EIS
 - 8. Mitigation planning and design for impacts to threatened and endangered species, wetlands/waters, or historic/archaeological resources.
 - 9. Preparation of and coordination for a Section 404 permit and Section 401 Water Quality Certification.

- 10. Utility relocation plans
- 11. Landscaping plans other than turf restoration will not be included in the plans. Any tree replacements necessary will be not be included in the plans, but will be coordinated by the City of Peoria.
- 12. Water Main Plans
- 13. Sanitary sewer plans and details.
- 14. Necessary permitting and/or mitigation for floodplain impacts.
- 15. Preparation of any NEPA documentation including Environmental Assessment (EA) or Environmental Impact Statement (EIS), or a Project Development Report (PDR).
- 16. Implementation of traffic signal timings after construction.

WORK ORDER NO.: 16-02 Hanson EXHIBIT B

COST ESTIMATE OF CONSULTANT SERVICES SHERIDAN ROAD: RICHMOND AVE. TO ELEANOR PLACE SECTION NO. 16-00358-02-PV

Charges for additional professional services performed by our firm for all services listed in the Scope of Services will be made on a time and materials basis according to the hourly rate schedules in the master agreement. The compensation for these services shall not exceed \$375,000 without authorization from the LA. Billings will be issued at least monthly, and will be based upon total services completed and expenses incurred at the time of billing.

Task	Fee		
Phase 2 Design & Plan Prep.	\$263,000		
Public Involvement	\$15,000		
Environmental Updates	\$25,000		
Construction Services	\$12,000		
ROW Services	\$60,000		
Total Fee	\$375,000		