



# Illinois Department of Transportation

Division of Highways / Region 3 / District 4  
401 Main Street / Peoria, Illinois / 61602-1111  
Telephone 309/671-3333

April 15, 2014

City of Peoria  
Section: 14-00347-01-PW  
Alta and Allen Road Intersection Reconstruction  
Preliminary Engineering Services Agreement

Mr. Scott Reese, City Engineer  
City of Peoria  
3505 North Dries Lane  
Peoria, Illinois 61604

Dear Mr. Reese:

The *Preliminary Engineering Services Agreement For Motor Fuel Tax Funds* dated March 25, 2014, between the city of Peoria and Maurer-Stutz, Inc., to be performed in connection with the improvement of the above sections is approved.

Sincerely,

A handwritten signature in black ink, appearing to read "Kensil A. Garnett".

Kensil A. Garnett, P.E.  
Acting Deputy Director of Highways,  
Region Three Engineer

SJA/lmh

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cc: Ms. Beth Ball, City Clerk  
Mr. Rick Andersen, Maurer-Stutz, Inc.  
District Four Auditor (letter only)  
File

Municipality City of Peoria	<b>L O C A L  A G E N C Y</b>	<b>Preliminary Engineering Services Agreement For Motor Fuel Tax Funds</b>	<b>C O N S U L T A N T</b>	Name Maurer-Stutz, Inc.
Township Medina				Address 3116 N. Dries Ln. Suite 100
County Peoria				City Peoria
Section 14-00347-01PW				State Illinois. 61604

THIS AGREEMENT is made and entered into this 25<sup>th</sup> day of March, 2014 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 Intersection of Alta Road and Allen Road

Route \_\_\_\_\_ Length 0.38 Mi. 2000.00 FT (Structure No. NA )

Termini Approximately 1000 feet of each leg of the intersection

**Description:**

Preparation of a Project Development Report, an Intersection Design Study, Right-of-Way Documents, Public Participation and Plans, Specifications and Estimates for the reconstruction of the intersection. See Appendix A for Project Scope of Services, Appendix B for Preliminary Project Schedule and Appendix C for Fee Summary.

### Agreement Provisions

**The Engineer Agrees,**

1. To perform or be responsible for the performance of the following engineering services for the LA, in connection with the proposed improvements herein before described, and checked below:
  - a.  Make such detailed surveys as are necessary for the preparation of detailed roadway plans
  - b.  Make stream and flood plain hydraulic surveys and gather high water data, and flood histories for the preparation of detailed bridge plans.
  - 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 such traffic studies and counts and special intersection studies as may be required to furnish sufficient data for the design of the proposed improvement.
  - e.  Prepare Army Corps of Engineers Permit, Department of Natural Resources-Office 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.
  - 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 easement and borrow pit and channel change agreements including prints of the corresponding plats and staking as required.

- 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 by the DEPARTMENT's Bureau of Local Roads & Streets.
  - 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 AGREEMENT, will be in accordance with current standard specifications and policies of the DEPARTMENT. It is being understood that all such reports, plats, plans and drafts shall, before being finally accepted, be subject to approval by the LA and the DEPARTMENT.
- (3) To attend conferences at any reasonable time when requested to do so by representatives of the LA or the Department.
- (4) In the event plans or surveys are found to be in error during construction of the SECTION and revisions of the plans or survey 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) 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 endorsed by him and will show his professional seal where such is required by law.

**The LA Agrees,**

1. ~~To pay the ENGINEER as compensation for all services performed as stipulated in paragraphs 1a, 1g, 1i, 2, 3, 5 and 6 in accordance with one of the following methods indicated by a check mark:~~

- ~~a.  A sum of money equal to \_\_\_\_\_ percent of the awarded contract cost of the proposed improvement as approved by the DEPARTMENT.~~
- ~~b.  A sum of money equal to the percent of the awarded contract cost for the proposed improvement as approved by the DEPARTMENT based on the following schedule:~~

Schedule for Percentages Based on Awarded Contract Cost

Awarded Cost	Percentage Fees	
Under \$50,000	_____	(see note)
	_____	%
	_____	%
	_____	%
	_____	%
	_____	%

~~Note: Not necessarily a percentage. Could use per diem, cost plus or lump sum.~~

2. \* To pay for services stipulated in paragraphs 1a, 1c, 1d, 1e, 1g, 1h, 1j, 1k, 2, 3, 5 & 6 of the ENGINEER AGREES at the the hourly rates stipulated below for personnel assigned to this SECTION 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 the actual cost. Subject to approval of the LA, the ENGINEER may sublet all or part of the services provided under paragraphs

"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.

**Method of Payment is to be Time and Materials at the ENGINEER's Standard Rates with a Not to Exceed Fee of \$235,108.00. See Project Scope of Services in Appendix A, Preliminary Project Schedule in Appendix B and Fee Summary in Appendix C.**

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 NA percent at the ENGINEER'S Standard Rates 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 NA 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,**

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.
5. *EMPLOYEE/EMPLOYMENT RESTRICTIONS - THE CONTRACTOR: THE CONTRACTOR, (hereinafter referred to as "SERVICE PROVIDER") agrees, as a condition of accepting this contract with the City of Peoria, that, for a period of one (1) year following completion of this contract, it shall be prohibited from hiring, directly or indirectly, any City employee or official who was involved, directly or indirectly in: (1) the selection and/or recommendation to select the SERVICE PROVIDER for performance of this contract; (2) coordinating the efforts of the SERVICE PROVIDER in the consummation or completion of this contract; or (3) monitoring or determining the performance of the SERVICE PROVIDER. The SERVICE PROVIDER further acknowledges and agrees that, upon the City's determination that a violation of this provision has occurred, the penalty imposed, at the sole discretion of the City, may include one or more of the following: (1) cancellation of any other contract(s) between the City of Peoria and the SERVICE PROVIDER; (2)*

disqualification of the *SERVICE PROVIDER* from bidding or being awarded future contracts with the City of Peoria for a period of two (2) years; and/or (3) payment of liquidated damages to the City of Peoria in the amount of TWENTY FIVE THOUSAND DOLLARS (\$25,000.00).

6. Engineer shall be responsible only for those Bidding and Construction Phase services expressly required of Engineer in Appendix B. Bidding Phase services are not included in this contract, and professional services expressly required of Engineer during the Construction Phase are limited to Shop Drawing Review only. With the exception of such expressly required services, Engineer shall have no design or other obligations during construction and Owner assumes all responsibility for the application and interpretation of the Contract Documents, review and response to Contractor claims, contract administration, processing Change Orders, revisions to the Contract Documents during construction, construction surety bonding and insurance requirements, construction observation and review, review of payment applications, and all other necessary Construction Phase engineering and professional services. Owner waives all claims against the Engineer that may be connected in any way to Construction Phase engineering or professional services except for those services that are expressly required of Engineer in Appendix B and as summarized above.
7. To the fullest extent permitted by law, Owner and Engineer (1) waive against each other, and the other's employees, officers, directors, agents, insurers, partners, and consultants, any and all claims for or entitlement to special, incidental, indirect, or consequential damages arising out of, resulting from, or in any way related to the Project, and (2) agree that Engineer's total liability to Owner under this Agreement shall be limited to ~~\$50,000 or the total amount of compensation received by Engineer, whichever is greater~~ not exceed \$1,000,000.
8. All documents prepared or furnished by Engineer are the **Property of the Owner** ~~instruments of service, and Engineer retains an ownership and property interest (including the copyright and the right of reuse) in such documents, whether or not the Project is completed. Owner shall have a limited license to use the documents on the Project, extensions of the Project, and for related uses of the Owner, subject to receipt by Engineer of full payment for all services relating to preparation of the documents and subject to the following limitations. (1) Owner acknowledges that such documents are not intended or represented to be suitable for use on the Project unless completed by Engineer, or for use or reuse by Owner or others on extensions of the Project, on any other project, or for any other use or purpose, without written verification or adaptation by Engineer; Any such use or reuse, or any modification of the documents, without written verification, completion, or adaptation by Engineer, as appropriate for the specific purpose intended, will be at Owner's sole risk and without liability or legal exposure to Engineer or to its officers, directors, members, partners, agents, employees, and consultants. Owner shall indemnify and hold harmless Engineer and its officers, directors, members, partners, agents, employees, and consultants from all claims, damages, losses, and expenses, including attorneys' fees, arising out of or resulting from any use, reuse, or modification of the documents without written verification, completion, or adaptation by Engineer. and (4) such limited license to Owner shall not create any rights in third parties.~~

IN WITNESS WHEREOF, the parties have caused the AGREEMENT to be executed in quadruplicate counterparts, each of which shall be considered as an original by their duly authorized officers.

Executed by the LA:

ATTEST:  
By Sean Bull  
City Clerk  
(Seal)

CITY OF PEORIA of the  
(Municipality/Township/County)  
State of Illinois, acting by and through its  
MAYOR AND CITY COUNCIL  
By Jim Ardis  
Title MAYOR

Executed by the ENGINEER:

ATTEST:  
By George B. Merkle  
Title Senior Project Engineer

Maurer-Stutz, Inc.  
3116 N. Dries Lane, Suite 100  
Peoria, IL 61604  
By Ray Adams  
Title SENIOR PROJECT MANAGER

Approved  
04.15.14  
Date  
Department of Transportation  
David A. [Signature]  
Regional Engineer

REVIEWED AND APPROVED:  
CITY OF PEORIA:  
By: [Signature]  
Public Works Director  
By: Donna Choi Williams  
Corporation Counsel

## Appendix A

### Scope of Services

#### Locally Funded Peoria Alta Road / Allen Road Intersection Reconstruction

**Provide Phase I Engineering Services** – Project Development Report per requirements of Chapter 10 of the current IDOT BLR Manual for federally funded projects in case there is a change in funding. Work includes a pick-up survey, preliminary design, environmental coordination, intersection design study, and public participation.

**Provide Phase II Engineering Services** – Right-of-way and easement plats and legal descriptions, right-of-way appraisals, plans, specifications and estimates for a local letting per requirements of the current IDOT BLR Manual.

#### **No Phase III Engineering Services are Anticipated on This Contract**

##### **1. TOPOGRAPHIC SURVEY – PHASE I**

- a. Length of pick-up survey is 2000 feet - consisting of 1000 feet east and west from the intersection along Alta Road and portions of Pheasant Lane, Benton Court, Kaylie Court, Brookshire Drive and Brompton Drive.
  - i. Data will be collected with a robotic total station or a total station/data collector.
- b. Field data will be downloaded and processed in GeoPak to create a digital surface model which will be merged with the previous model and the resulting drawing will be the one from which all base drawings will be created.

##### **2. PRELIMINARY DESIGN AND COORDINATION – PHASE I**

- a. Preliminary intersection designs will be prepared for both a traditional signalized intersection as well as a roundabout.
- b. Environmental reviews will include the preparation and submittal of an Environmental Survey Request through IDOT and any subsequent coordination required to obtain biological, cultural and historical signoffs.
- c. Existing crash data and traffic data along with future projections will be coordinated with the City of Peoria and IDOT.
- d. Perform capacity analysis and level of service determinations for each intersection leg and each movement for the various conceptual designs using Highway Capacity Software (HCS). SIDRA will be used for any roundabout analysis per IDOT BDE requirements.
- e. Analyze horizontal and vertical alignments for possible deficiencies.
- f. Perform a location drainage study of adjacent roadside ditches to determine if any drainage requirements will constrain designs.

- g. Perform an operational analysis for the roundabout for the AM and PM peak hours and prepare a memorandum documenting the capacity analysis.
- h. Analyze and coordinate pedestrian connectivity between all recreational path/sidewalk locations within the project study limits including a connection from Brompton Court/Rock Island Trail along the south leg of Allen Road, a connection to the existing sidewalk along the west leg of Alta Road, a connection to the sidewalks at the intersection of Brookshire Drive and the east leg of Alta Road and connectivity/continuity of sidewalk from Benton Court and Kaylie Court along the north leg of Allen Road.
- i. Analyze findings and develop ROW needs and cost estimates for each type of intersection.
- j. Analyze and coordinate utility impacts.
- k. Participate in public involvement activities that will include color exhibits presenting level of service, ROW needs, cost estimates and other study information at public meetings.

### **3. INTERSECTION DESIGN STUDY – PHASE I**

- a. Prepare and submit Intersection Design Study (IDS) utilizing a 20-year design period in IDOT Microstation format for the recommended type of intersection.
- b. Coordinate IDS submittal and reviews to obtain approval from the City of Peoria and IDOT if necessary.

### **4. LOCATION STUDY – PROJECT DEVELOPMENT REPORT – PHASE I**

- a. Coordinate preliminary design with utility companies to determine conflicts and impacts.
- b. Analyze previously obtained soil data to determine if and where sub-grade remediation will be needed.
- c. Perform pavement design in accordance with IDOT BDE and BLR Manuals.
- d. Prepare and submit Project Development Report to the City of Peoria, coordinate and address review comments to obtain IDOT design approval if necessary.

### **5. LEGAL SURVEY – LAND ACQUISITION – PHASE II**

- a. Prepare plats and legal descriptions for an estimated 20 parcels (15 Fee Title and 5 Temporary Easements) in accordance with City of Peoria requirements and formats.
  - i. Compose legal descriptions
  - ii. Prepare easement plats.
  - iii. Stake proposed right-of-way and easements
- b. Perform ROW appraisals of the anticipated parcels and provide results in a format acceptable to the City of Peoria.
- c. This agreement assumes all negotiating and actual land acquisition will be performed by the City of Peoria.



**6. PLANS, SPECIFICATIONS AND ESTIMATES – PHASE II**

- a. Provide intersection construction plan sets at a 1"=20' scale. This project will have 2 plan submittals. The first submittal will be pre-final plans and specifications. The second submittal will final intersection plans, specifications and estimates. The preliminary index of plan sheets is as follows:

<u>NUMBER</u>	<u>TITLE</u>
1	Cover Sheet
2	General Notes, Index of Sheets, List of Standards, etc.
3-4	Summary of Quantities
5-8	Schedule of Quantities
9-10	Typical Sections
11-12	Alignment, Ties and Benchmarks
13-15	ROW Plan Sheets
16-19	Removal Plan
20-24	Roadway Plan Sheets
25-26	Roadway Profile Sheets
27-28	Detour Plan/Traffic Control Details
29-32	Erosion and Sediment Control Details
33-36	Drainage Plan and Details
37-40	Intersection Details
41-46	Multi-Use Path Details
47-50	Pavement Marking and Signing Plan
51-55	Landscape and Lighting Plan (If Roundabout) or
56-60	Traffic Signal Plans and Details (If Signalized)
61-90	Cross Sections
91-115	Highway Standards

- b. CAD work and exhibits to be prepared using Microstation. A translation of the CAD work will be provided in AutoCAD format to the City of Peoria, however, this AutoCAD translation is not intended for design purposes.
- c. Estimates of Cost will be prepared at the time of final plan submittal using standard IDOT forms.
- d. Estimates of Time will be prepared at the time of final plan submittal using standard IDOT forms.
- e. Coordinate with D4 Local Roads to place the project on a state letting if needed.
- f. QC/QA reviews will be performed utilizing in-house checklists and reviewers.
- g. The following meetings are anticipated:
- i. Five coordination meetings with adjacent property owners and City staff.
  - ii. Three coordination meetings at City Public Works Office.
  - iii. Two project review and update meetings with City staff.
  - iv. Three submittal review and coordination meetings with IDOT staff.
  - v. One public involvement meeting.

- 7. The following items are not included in this contract and scope of services but can be added by mutual agreement between the City of Peoria and Maurer-Stutz:**
- a. Environmental coordination beyond the items listed specifically above and beyond what is typically expected during a categorical exclusion type project.
  - b. COSIM Air Quality Analysis.
  - c. Noise Study.
  - d. Land Acquisition tasks other than those specifically described above.
  - e. Decorative streetscape design other than simple roundabout landscaping.
  - f. Conversion of Microstation files to any format other than .pdf or the AutoCAD conversion described above.

## Appendix B

### Preliminary Project Schedule

#### Locally Funded Peoria Alta Road / Allen Road Intersection

<u>ITEM</u>	<u>ANTICIPATED COMPLETION</u>
Notice to Proceed	4/15/14
Survey	5/09/14
Preliminary Design/Coordination	6/30/14
Submit Intersection Designs	7/14/14
Conference/Review Intersection Designs	7/31/14
Public Meeting/Public Involvement	8/28/14
City Selects Intersection Type	9/19/14
Submit PDR	9/30/14
Conference and Review PDR	10/17/14
City Approves PDR	10/31/14
Submit Plats and Legal Descriptions	12/01/14
ROW Appraisals	12/31/14
Pre-final PS&E Submittal	2/16/15
City Reviews PS&E	2/28/15
Final PS&E Plans Submittal	3/16/15
Letting	4/15/15

## Appendix C

### Fee Summary

#### Locally Funded Peoria Alta Road / Allen Road Intersection Reconstruction

#### 1. TOPOGRAPHIC SURVEY

Review information, site visit, topographic pick-up survey immediately through intersection along Allen Road and 1000' east to 1000' west along Alta Road, along with portions of Pheasant Lane, Benton Court, Kaylie Court, Brookshire Drive and Bromptom Drive. Create base sheet/drawing, merge with existing model, stake proposed ROW (Estimated 25 Parcels)

Project Manager (PE VIII)	4 Hours@	\$160.00 /Hour=	\$640.00	
Project Engineer (PE V)	8 Hours@	\$128.00 /Hour=	\$1024.00	
Project Surveyor (PLS VI)	8 Hours@	\$110.00 /Hour=	\$880.00	
2 Person Survey Crew	40 Hours@	\$150.00 /Hour=	<u>\$6,000.00</u>	
				\$8,544.00

#### 2. PRELIMINARY DESIGN AND COORDINATION

Perform preliminary intersection design, coordinate with City staff and developers, environmental reviews, coordinate and develop traffic projections, perform capacity analysis, analyze horizontal and vertical alignments, analyze drainage requirements, explore and evaluate pedestrian connectivity.

Project Manager (PE VIII)	30 Hours@	\$160.00 /Hour=	\$4,800.00	
Project Engineer (PE VI)	4 Hours@	\$135.00 /Hour=	\$ 540.00	
Project Engineer (PE V)	72 Hours@	\$128.00 /Hour=	\$9,216.00	
Design Engineer (PE IV)	72 Hours@	\$110.00 /Hour=	\$7,920.00	
Design Technologist (IV)	72 Hours@	\$75.00 /Hour=	\$5,400.00	
<b>GHD-Ourston Roundabout Engineering</b> (Sub-Consultant)			<u>\$5,000.00</u>	
				\$32,876.00

#### 3. INTERSECTION DESIGN STUDY

Prepare intersection design study sheets, coordinate intersection design study with City (and IDOT if needed) to obtain approval

Project Manager (PE VIII)	8 Hours@	\$160.00 /Hour=	\$1,280.00	
Project Engineer (PE V)	60 Hours@	\$128.00 /Hour=	\$7,680.00	
Design Engineer (PE IV)	80 Hours@	\$110.00 /Hour=	\$8,800.00	
Design Technologist (IV)	40 Hours@	\$75.00 /Hour=	\$3,000.00	
<b>GHD-Ourston Roundabout Engineering</b> (Sub-Consultant)			<u>\$3,000.00</u>	
				\$23,760.00

**LOCATION STUDY – PROJECT DEVELOPMENT REPORT**

Coordinate preliminary design with utility companies, analyze utility impacts, analyze geotechnical characteristics, perform pavement design, assess ROW and easement needs, public participation, exhibits for public meetings, prepare preliminary costs estimates, prepare and submit project development report

Project Manager (PE VIII)	20 Hours@	\$160.00 /Hour=	\$3,200.00
Project Engineer (PE VI)	12 Hours@	\$135.00 /Hour=	\$1,620.00
Project Engineer (PE V)	70 Hours@	\$128.00 /Hour=	\$8,960.00
Design Engineer (PE IV)	70 Hours@	\$110.00 /Hour=	\$7,700.00
Soils Engineer (PE III)	2 Hours@	\$100.00 /Hour=	\$200.00
Design Technologist (IV)	70 Hours@	\$75.00 /Hour=	<u>\$5,250.00</u>
			\$26,930.00

**4. LEGAL SURVEY – LAND ACQUISITION**

Prepare ROW and easement plats and legal descriptions for an estimated 20 parcels, appraise all ROW (Does Not Include Negotiations)

Project Manager (PE VIII)	8 Hours@	\$160.00 /Hour=	\$1,280.00
Project Engineer (PE V)	16 Hours@	\$128.00 /Hour=	\$2,048.00
Project Surveyor (PLS VI)	100 Hours@	\$110.00 /Hour=	\$11,000.00
Survey Technologist (IV)	100 Hours@	\$75.00 /Hour=	<u>\$7,500.00</u>
Sub-Total			<u>\$21,828.00</u>

**Neff Valuation Group/Randy Neff (Sub-Consultant)**

Appraisals will be done utilizing the Value Finding Method.

15 Fee Titles at \$1500 and 5 TE at \$1000	=	<u>\$27,500.00</u>
Sub-Total		<u>\$27,500.00</u>

**DECA Properties/Eddie Washington (Sub-Consultant)**

Review Appraisals

15 Fee Titles at \$1000 and 5 TE at \$750	=	<u>\$18,750.00</u>
Sub-Total		<u>\$18,750.00</u>


\$68,078.00

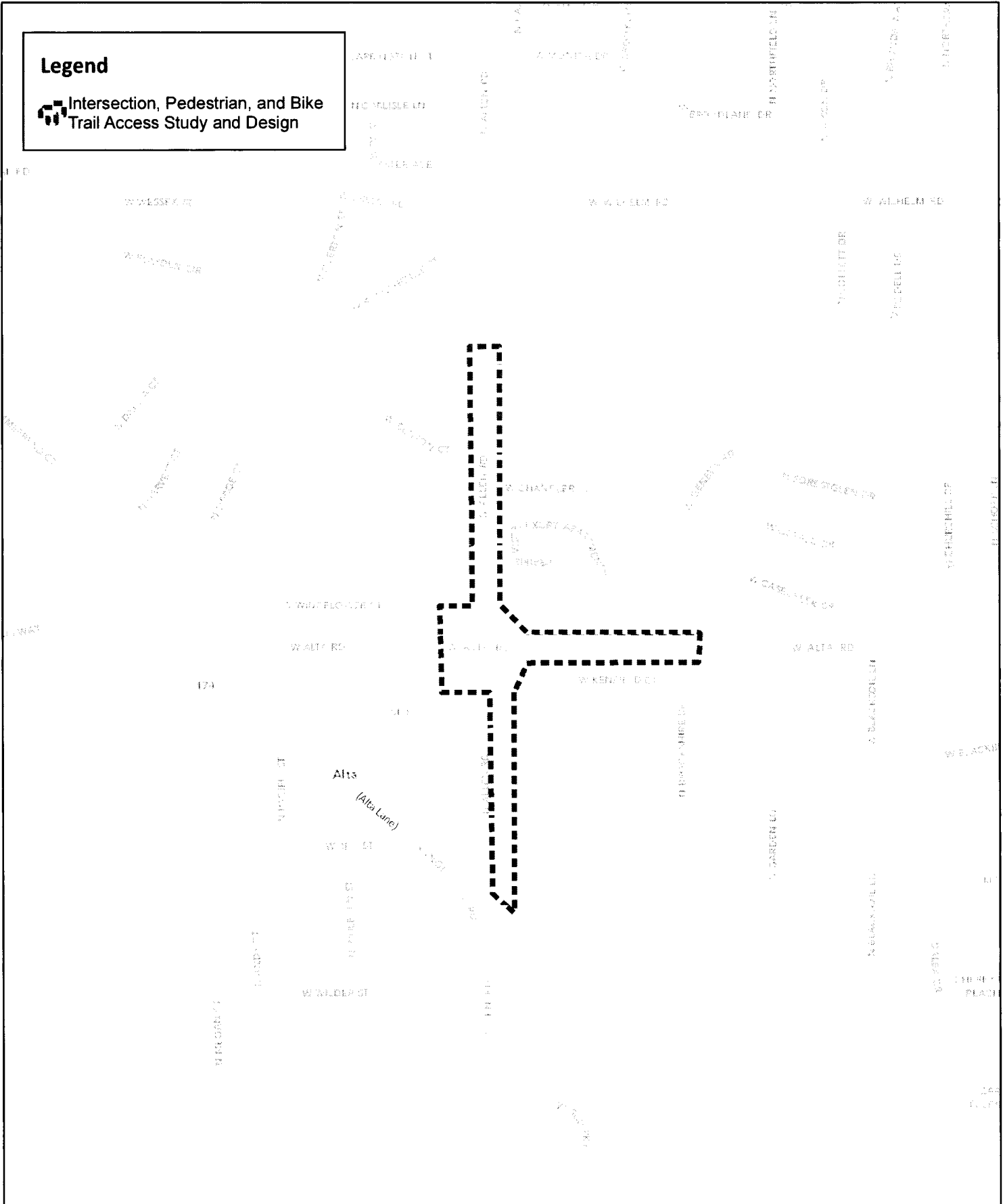
**5. PLANS, SPECIFICATIONS AND ESTIMATES**

Preparation of plans, specifications, estimate of cost, estimate of time, letting documents, QC/QA, project supervision and administration, meetings

Project Manager (PE VIII)	50 Hours@	\$160.00 /Hour=	\$8,000.00
Project Engineer (PE VI)	20 Hours@	\$135.00 /Hour=	\$2,700.00
Project Engineer (PE V)	140 Hours@	\$128.00 /Hour=	\$17,920.00
Design Engineer (PE IV)	140 Hours@	\$110.00 /Hour=	\$15,400.00
Soils Engineer (PE III)	4 Hours@	\$100.00 /Hour=	\$400.00
Design Technologist (IV)	140 Hours@	\$75.00 /Hour=	\$10,500.00
<b>Kaskaskia Engineering</b>	140 Hours		<u>20,000.00</u>
(Signal Design Sub-Consultant)			
			\$74,920.00
Agreement Total			<u>\$235,108.00</u>

**Legend**

 Intersection, Pedestrian, and Bike Trail Access Study and Design



0 500 1,000 Feet

**Project Location Map**