



Illinois Department of Transportation

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

July 29, 2014

City of Peoria
Section: 09-00343-03-PV
Orange Prairie Road Extension (Sta 90+50 to Sta 148+84.31)
Construction Engineering Services Agreement

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

Dear Mr. Reeise:

The *Construction Engineering Services Agreement For Motor Fuel Tax Funds* dated July 28, 2014, between the city of Peoria and Farnsworth Group, Inc., to be performed in connection with the improvement of the above section is approved.

Sincerely,

A handwritten signature in black ink that reads "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. Eric Bachman, Farnsworth Group, Inc.
District Four Compliance Review Officer
File

Municipality City of Peoria	L O C A L A G E N C Y	Preliminary/Construction Engineering Services Agreement For Motor Fuel Tax Funds ADDENDUM #6	C O N S U L T A N T	Name Farnsworth Group, Inc.
Township Radnor and Kickapoo				Address 7707 N. Knoxville Avenue – Suite 100
County Peoria				City Peoria
Section 09-00343-03-PV				State Illinois

THIS AGREEMENT is made and entered into this 28th day of July, 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	Orange Prairie Road Extension	Route	Orange Prairie Road
Length	4.18	KM(2.6 Miles)(Structure No. _____)
Termini	US Route 150 (War Memorial Drive) to IL 91/Grange Hall Road/Alta Lane		

Description: ADDENDUM # 6:
Design Engineering and Construction Engineering, Material Testing and Material Documentation Services in accordance with MFT Project Procedures for the **Construction of the Northern Section of Orange Prairie Road, Section 09-00343-03-PV**, from STA 90+50 to STA 148+84.31, including the intersection at IL 91/Grange Hall Road. These services will be provided for the project which includes P.C.C. & HMA pavement, HMA shoulders, earth excavation, aggregate subbase, lime stabilization, concrete box culverts, storm sewers, inlets, manholes, curb and gutter, sidewalk, HMA multi-use path, topsoil, seeding, decorative roadway lighting, and other incidental construction. See Appendix A for the Engineering Rate Schedule and Appendix B for Project Scope of Services and Location Map.

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 improvement 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, 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.

Note 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. In addition, provide Letter of Map Revision (LOMR) services for box culvert at Fargo Run.
- 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 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. Furnish or cause to be furnished
 - (1) A resident engineer, 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 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 work.
 - 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.
 - 2. That all reports, plans, plats and special provisions to be furnished by the ENGINEER pursuant to this agreement will be in accordance with the current standard specifications and policies of the DEPARTMENT, it being understood that all such reports, plats, plans and drafts shall before being finally accepted, be subject to approval by the LA and the said DEPARTMENT.
 - 3. 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 SECTION 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. ~~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 percentage 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)
	_____	(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, 1b, 1c, 1d, 1e, 1f, 1g, 1h, 1i, 1j and 1k if the box is marked with an "x" and 2, 3, 5, and 6 of THE ENGINEER AGREES at 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 his actual cost. Subject to the approval of the LA, the ENGINEER may sublet all or part of the services provided under paragraphs 1a, 1b, 1c, 1d, 1e, 1f, 1g, 1h, 1i, 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.

Grade Classification of Employee	Hourly Rate
Principal Engineer	_____
Resident Engineer	_____
Chief of Party	_____
Instrument Man	_____
Redmen	_____
Inspectors	_____

*** Time and Materials – Not to Exceed Additional Fee of \$492,000.00 for a total Contract Not to Exceed Fee of \$2,991,734.00 without prior written authorization for a change in scope of services or project schedule. This amount is based on a Construction operations time frame for our services through December 31, 2015, which includes time for project startup and closeout. Should the Contractor's operations extend beyond September 30, 2015 due to weather or other issues, additional compensation for continued Construction Engineering Services beyond this date shall be negotiated at that time. See Rate Schedule attached and labeled Appendix A and Additional Project Scope of Services attached and labeled Appendix B. Updated 2015 Rates shall be automatically incorporated into this Agreement between the LA and Engineer on January 1, 2015.**

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 December 31, 2014. In event the services of the ENGINEER extend beyond 12/31/2014, the hourly rates will be adjusted automatically for updated 2015 Rates for this AGREEMENT to compensate for increases or decreases in the salary structure of the ENGINEER that are in effect at that time.

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 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.

Payments shall be made on a monthly basis within thirty (30) days upon receipt of invoice.

4. That should the improvements be abandoned at any time after the ENGINEER has performed any part of the services provided for in paragraphs 1a and 1k, and prior to the completion of such services the LA shall reimburse the ENGINEER for his actual costs, in accordance with the Rate Schedule in Appendix A, incurred up to the time he is notified in writing of such abandonment. 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 in accordance with the Rate Schedule in Appendix A and updated Rate Schedule versions after 2014 that are incorporated into this Agreement. 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.

It is Mutually Agreed,

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.
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 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 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.
5. **EMPLOYEE/EMPLOYMENT RESTRICTIONS** – The ENGINEER agrees, as a condition of accepting this contract with the CITY, 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 ENGINEER for performance of this contract; (2) coordinating the efforts of the ENGINEER in the consummation or completion of this contract; or (3) monitoring or determining the performance of the ENGINEER. The ENGINEER 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 and the ENGINEER; (2) disqualification of the ENGINEER from bidding or being awarded future contracts with the CITY for a period of two (2) years; and/or (3) payment of liquidated damages to the CITY in the amount of TWENTY FIVE THOUSAND DOLLARS (\$25,000.00). *This does not apply to any City Employee involved in the 2011-2012 reduction in force; not does it apply to parties taking the Early Retirement Incentive offered by the City from November 1, 2011 through November 1, 2012.*

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

Executed by the LA:

City of Peoria of the
(Municipality/Township/County)

ATTEST:

State of Illinois, acting by and through its

By Ben Ball

City Clerk
(Seal)

Mayor and Council
By Patrick Urch

Title: Patrick Urch, City Manager

Reviewed and Approved:
PUBLIC WORKS:

LEGAL DEPARTMENT:

By [Signature]

By Donald D. Leist

Corporation Counsel

Executed by the ENGINEER:

Farnsworth Group, Inc.

ATTEST:

7707 N. Knoxville Avenue - Suite 100

By [Signature]

Title: Joe Adams, Project Engineer

Peoria, IL 61614
[Signature]

Title: Eric Bachman, Principal

Approved

072914
Date
Department of Transportation
[Signature]
Regional Engineer

**Farnsworth Group, Inc.
Schedule of Charges - January 1, 2014**

Engineering/Surveying Professional Staff	Per Hour
Engineering Intern I	\$ 99.00
Engineering Intern II	\$ 110.00
Engineer/Land Surveyor	\$ 117.00
Senior Engineer/Senior Land Surveyor	\$ 123.00
Project Engineer/Project Land Surveyor	\$ 136.00
Senior Project Engineer/Senior Project Land Surveyor	\$ 152.00
Engineering Manager/Land Surveying Manager	\$ 169.00
Senior Engineering Manager	\$ 179.00
Principal/Vice President	\$ 192.00

Engineering/Surveying Technical Staff	
Administrative Support	\$ 65.00
Technician I	\$ 65.00
Technician II	\$ 86.00
Senior Technician	\$ 95.00
Chief Technician	\$ 110.00
Designer/Computer Specialist/Lead Technician	\$ 119.00
Senior Designer	\$ 123.00
Project Designer/Project Technician	\$ 131.00
Senior Project Planner/Senior Systems Integration Specialist	\$ 134.00
Senior Project Designer/Systems Integration Manager / Senior Project Technician	\$ 149.00

Architecture Staff	
Architectural Technician I	\$ 65.00
Architectural Technician II	\$ 86.00
Architectural Designer I/Landscape Architect Intern I/Interior Designer I	\$ 88.00
Interior Designer II	\$ 92.00
Interior Design Manager/Architectural Designer II/Senior Interior Designer/Landscape Architect Intern II	\$ 98.00
Architect/Landscape Architect/Architectural Project Coordinator	\$ 112.00
Senior Architect/Senior Architectural Designer/Senior Architectural Project Coordinator	\$ 118.00
Project Architect/Architectural Project Manager/Project Landscape Architect	\$ 129.00
Senior Project Architect/Senior Architectural Project Manager/Senior Project Landscape Architect	\$ 143.00
Architectural Manager/Landscape Architectural Manager	\$ 151.00
Senior Architectural Manager	\$ 160.00
Principal, Architecture	\$ 180.00

Miscellaneous/Expenses	
Expert Testimony	2xbilling rate
Per diem	\$44.00/day
Field Vehicle	\$12.00/hr
ATV & Trailer	\$12.00/hr
Automobile	\$.59/mi
CADD Computer	\$15.00/hr
Hand Held GPS	\$11.00/hr
1 Unit GPS (Maximum \$440/day)	\$22.00/hr
2 Unit GPS (Maximum \$440/day) / GPS Robotic	\$44.00/hr
3 Unit GPS (Maximum \$660/day)	\$66.00/hr
Robotic Total Station	\$22.00/hr
Subcontractors & Other Reimbursable Expenses Related to Project*	Cost

(*Includes the actual cost of subcontractors, blueprints, supplies, toll charges, testing services, personnel subsistence, and other costs directly incidental to the performance of the above services.)

CHARGES EFFECTIVE UNTIL JANUARY 1, 2015 UNLESS NOTIFIED

APPENDIX B**ADDITIONAL SCOPE OF SERVICES – April 11, 2014****ADDENDUM #6**

City of Peoria, IL

Orange Prairie Road Extension (New Construction)

US 150 (War Memorial Drive) to IL 91 (Alta Lane)/Grange Hall Road

This Additional Scope of Services details revisions to the Phase I and II Engineering Services as described under the original Project Scope of Services as part of the Agreement dated April 27, 2010. Additional Scope of Services listed below consists of Phase II Design Engineering Plans, Specifications, and Estimate update to 2014 Policy and Phase III Construction Engineering Services consisting of Construction Administration, Material Testing, Material Documentation, and Resident Engineering for **Section 09-00343-03- PV**. This **Northern Construction Section** extends from just north of the proposed Pioneer Parkway intersection at Station 90+50 up to and including the Intersection and approach roadways at IL 91/Grange Hall Road/Alta Lane. Total Section Length is 7,871.31 feet (1.491 mile)

1. Updating Plans, Specifications and Estimates to 2014 Construction Year

- a. Plans, Specifications and Estimates were previously completed and approved by the City of Peoria and Peoria County April 19, 2013. Due to delays in Right-of-Way acquisition for two (2) parcels along the corridor, IDOT did not allow the project to be let for construction until April, 2014. This required various plan sheets, specification documents and estimates of cost and time to be updated to year 2014 policies.
- b. After the Final Plans were approved, additional information was received from utilities relocating existing facilities or constructing new facilities within the project limits. Information pertaining to this utility work was requested by the City to be included in the plans
- c. Prepare Letter of Map Revision (LOMR) application for 2,400 lineal foot run of Fargo Run associated with the Box Culverts located under Orange Prairie Road
- d. Using 2010 Hydraulic Analysis and working with City Public Works Department, prepare application, coordinate public notification (including one (1) public coordination meeting) and prepare publication for Letter of Map Revision (LOMR) for study reach

2. Construction Engineering, Material Testing and Material Documentation

- a. Provide for Construction Engineering and Material Testing and Material Documentation for the subject project in accordance with IDOT Local Agency Motor Fuel Tax (MFT) construction services procedures.
- b. Provide for Material contract quantities and processing using ICORS program.
- c. Provide a full time Resident Engineer and other technical personnel as necessary to provide the followings services:
 - i. Observation of the work and the contractor's operations for general compliance with the plans and specifications as construction proceeds, but the Engineer does not guarantee the performance of the contract by the Contractor
 - ii. 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 work
 - iii. Supervision of technicians, proportioning engineers, and other engineering technical personnel and the taking and submitting of material samples
 - iv. Field testing of concrete and bituminous mixtures in accordance with the IDOT Project Procedures Guide
 - v. Soil and Aggregate moisture and compaction tests as required by the specifications
- d. Prepare and Check Pay Request and Change Order forms
- e. Provide Record Drawings indicating field locations and elevations of storm sewers and drainage structures, including drainage tile repairs

- f. This Scope of Services is based on a Construction operations time frame for our services through December 31, 2015, which includes project startup and closeout time. Should the Contractor's operations extend beyond the September 30, 2015 completion date specified in the construction contract due to weather or other issues, we reserve the right to request additional compensation for continued Construction Engineering Services beyond this date.

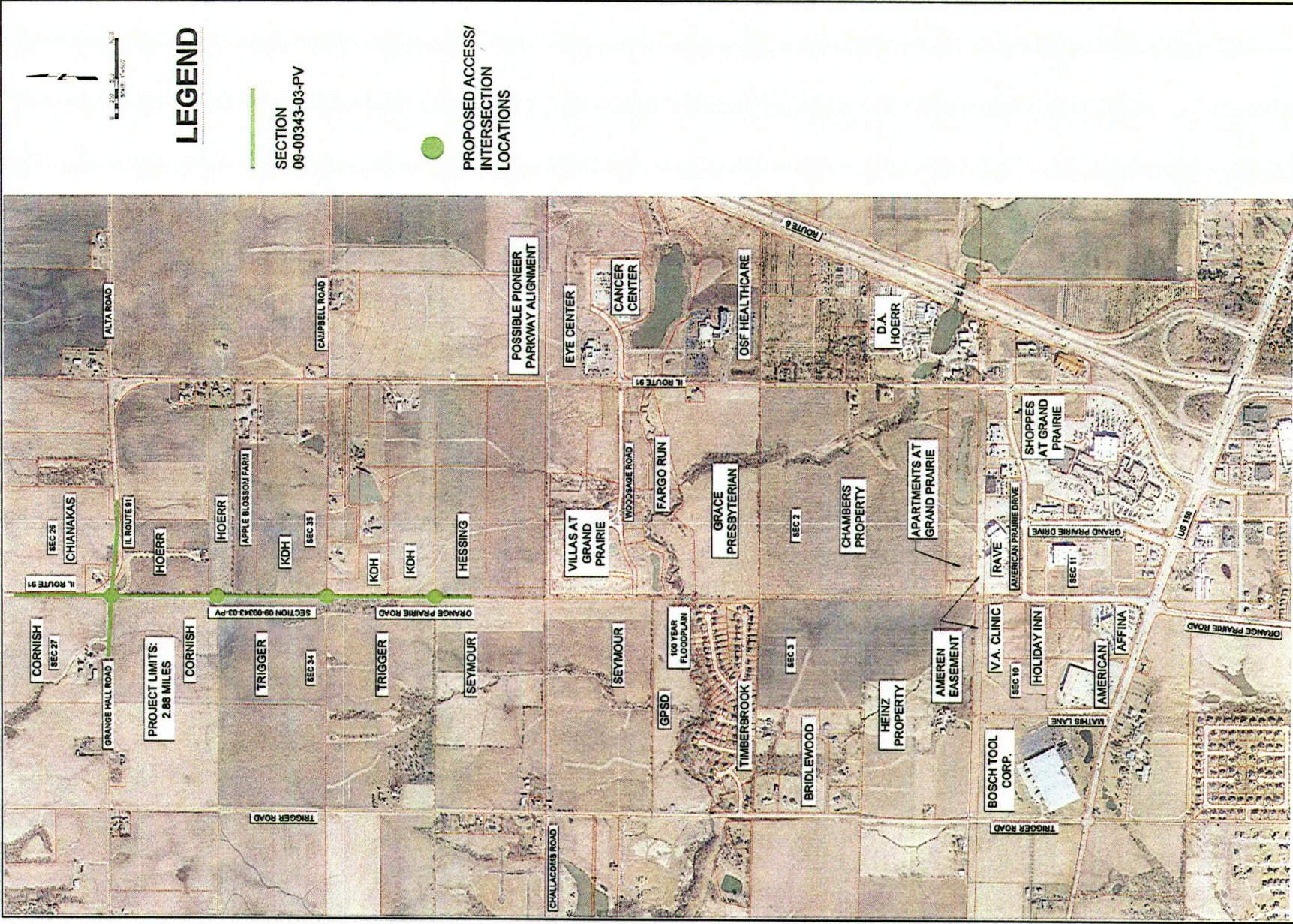
Note: Not included in this Contract and Scope of Services:

- Plant testing for Hot-Mix Asphalt (Assumed to be completed by IDOT District 4 Materials Section as part of their Approved Source process)
- Aggregate Testing at the Quarry (Assumed to be completed by IDOT District 4 Materials Section as part of their Approved Source process)

The work listed above will be completed on a time and material basis or under a separate contract addendum, if requested at a later date by the Client.

#14-154-B

Map file and location: \\s:\projects\14-154-b\14-154-b-map\14-154-b-map.dwg (last saved: 11/11/14 10:31:11 AM)



Project No.:	14-154-B	Date:	3/12/2014	City of Peoria
Location Map and Proposed Access/Intersection Locations		Drawn:		PEORIA, IL
		Checked:		
		Book No.:		

Farnsworth Group Inc. - Construction Engineering Services (ESTIMATE WORKSHEET)
Orange Prairie Road - Section 09-00343-03-PV (North)
STA 90+50 to STA 148+84.31

April 11, 2014

MANHOURS ESTIMATE:

	TASK DESCRIPTION	PRINCIPAL	ENGINEER MANAGER	SR. PROJ. ENGINEER CONST (QC/QA)	PROJ ENGINEER	RESIDENT CONST PROJECT ENGR	CHIEF TECHNICIAN	ON-SITE CONST ENGINEER II	ADMIN CLERICAL
1	Const. Observation, Documentation and Material Testing					500	120	2,750	10
2	Construction Services QC/QA			20					
3	Project Closeout, Final Pay Estimate Agreed Quantities & Record Plans			8		40	20	190	10
4	Project Man., Admin, Meetings	25				40			
5	Plans, Specs, Estimates Updates & LOMR for BOX Culverts	2	24		40		40		8
	SUBTOTAL HOURS	27	24	28	40	580	180	2,940	28
	BILLING RATE	\$192	\$169	\$152	\$136	\$136	\$110	\$110	\$65
	SUBTOTAL ESTIMATE	\$5,184	\$4,056	\$4,256	\$5,440	\$78,880	\$19,800	\$323,400	\$1,820

IN-HOUSE DIRECT COSTS (ESTIMATE)

	ELEMENT OF WORK	TRUCK (DAYS)	PRINTS & CADD	MISC/EQUIP
1	Const. Observation, Documentation and Material Testing	430	\$ 2,000	\$ 400
2	Construction Services QC/QA	15	\$ 100	\$ 100
3	Project Closeout, Final Pay Estimate Agreed Quantities & Record Plans			
4	Project Man., Admin, Meetings		\$ 300	\$ 200
5	Plans, Specs, Estimates Updates LOMR for Box Culverts		\$ 1,250	
	SUBTOTAL UNIT	445		
	RATE	\$45.00	AT COST	AT COST
	SUBTOTAL ESTIMATE	\$20,025.00	\$3,650.00	\$700.00

TESTING SERVICES (ESTIMATE)

	ELEMENT OF WORK	TOTAL DIRECT COSTS
	MATERIAL TESTING AND REPORTS	\$20,000.00
	SUBTOTAL ESTIMATE	\$20,000.00

SUMMARY OF COSTS (ESTIMATES)

MANHOUR ESTIMATE	\$442,836.00
2015 RATE ADJUSTMENT	\$4,789.00
IN-HOUSE DIRECT COSTS	\$24,375.00
SERVICES BY OTHERS	\$20,000.00
 ESTIMATED FEE	 \$492,000.00