


Local Public Agency	LOCAL AGENCY	 Illinois Department of Transportation Preliminary Engineering Services Agreement For Federal Participation	Consultant
Vermilion County			Cummins Engineering Corporation
County Vermilion			Address 135 West Lake Shore Drive
Section 19-00216-00-SP			City Springfield
Project No. UD63(586)			State Illinois
Job No. P-95-001-21			Zip Code 62703
Contact Name/Phone/E-mail Address Adrian Greenwell (217)431-6682 agreenwell@vchighway.org			Contact Name/Phone/E-mail Address Kimberly Cummins (217)726-8570 kim@cumminsengineering.com

THIS AGREEMENT is made and entered into this 1ST day of MAY, 2020 between the above Local Public Agency (LPA) and Consultant (ENGINEER) and covers certain professional engineering services in connection with the PROJECT. Federal-aid funds allotted to the LPA by the state of Illinois under the general supervision of the Illinois Department of Transportation (STATE) will be used entirely or in part to finance engineering services as described under AGREEMENT PROVISIONS.

Project Description

Name Attica Road (CH 14) Route FAS 496 Length 6.9 mi Structure No. n/a

Termini From the East City Limit of Rossville to the Indiana State Line

Description: PE I and PE II Engineering Services for various HSIP safety improvements to CH 14 such as addition of an HMA safety shoulder with rumble strips and removal of concrete headwalls from the clearzone throughout the corridor and an intersection realignment at the Indiana State Line. See the attached SCOPE OF WORK for more information.

FILED

Agreement Provisions

DEC 14 2020

I. THE ENGINEER AGREES,

- To perform or be responsible for the performance, in accordance with STATE approved design standards and policies, of engineering services for the LPA for the proposed improvement herein described.
- To attend any and all meetings and visit the site of the proposed improvement at any reasonable time when requested by representatives of the LPA or STATE.
- To complete the services herein described within 365 calendar days from the date of the Notice to Proceed from the LPA, excluding from consideration periods of delay caused by circumstances beyond the control of the ENGINEER.
- The classifications of the employees used in the work should be consistent with the employee classifications and estimated man-hours shown in EXHIBIT A. If higher-salaried personnel of the firm, including the Principal Engineer, perform services that are indicated in Exhibit A to be performed by lesser-salaried personnel, the wage rate billed for such services shall be commensurate with the payroll rate for the work performed.
- That the ENGINEER is qualified technically and is entirely conversant with the design standards and policies applicable for the PROJECT; and that the ENGINEER has sufficient properly trained, organized and experienced personnel to perform the services enumerated herein.
- That the ENGINEER shall be responsible for the accuracy of the work and shall promptly make necessary revisions or corrections resulting from the ENGINEER's errors, omissions or negligent acts without additional compensation. Acceptance of work by the STATE will not relieve the ENGINEER of the responsibility to make subsequent correction of any such errors or omissions or for clarification of any ambiguities.
- That all plans and other documents furnished by the ENGINEER pursuant to this AGREEMENT will be endorsed by the ENGINEER and will affix the ENGINEER's professional seal when such seal is required by law. Plans for structures to be built as a part of the improvement will be prepared under the supervision of a registered structural engineer and will affix structural engineer seal when such seal is required by law. It will be the ENGINEER's responsibility to affix the proper seal as required by the Bureau of Local Roads and Streets manual published by the STATE.
- That the ENGINEER will comply with applicable federal statutes, state of Illinois statutes, and local laws or ordinances of the LPA.

Cathy Jenkins
 CATHY JENKINS
 VERMILION CO. IL.

9. The undersigned certifies neither the ENGINEER nor I have:
- employed or retained for commission, percentage, brokerage, contingent fee or other considerations, any firm or person (other than a bona fide employee working solely for me or the above ENGINEER) to solicit or secure this AGREEMENT,
 - agreed, as an express or implied condition for obtaining this AGREEMENT, to employ or retain the services of any firm or person in connection with carrying out the AGREEMENT or
 - paid, or agreed to pay any firm, organization or person (other than a bona fide employee working solely for me or the above ENGINEER) any fee, contribution, donation or consideration of any kind for, or in connection with, procuring or carrying out the AGREEMENT.
 - are not presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transactions by any Federal department or agency,
 - have not within a three-year period preceding the AGREEMENT been convicted of or had a civil judgment rendered against them for commission of fraud or criminal offense in connection with obtaining, attempting to obtain or performing a public (Federal, State or local) transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements or receiving stolen property,
 - are not presently indicted for or otherwise criminally or civilly charged by a government entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (e) and
 - have not within a three-year period preceding this AGREEMENT had one or more public transactions (Federal, State or local) terminated for cause or default.
10. To pay its subconsultants for satisfactory performance no later than 30 days from receipt of each payment from the LPA.
11. To submit all invoices to the LPA within one year of the completion of the work called for in this AGREEMENT or any subsequent Amendment or Supplement.
12. To submit BLR 05613, Engineering Payment Report, to the STATE upon completion of the project (Exhibit B).
13. Scope of Services to be provided by the ENGINEER:
- Make such detailed surveys as are necessary for the planning and design of the PROJECT.
 - Make stream and flood plain hydraulic surveys and gather both existing bridge upstream and downstream high water data and flood flow histories.
 - Prepare applications for U.S. Army Corps of Engineers Permit, Illinois Department of Natural Resources Office of Water Resources Permit and Illinois Environmental Protection Agency Section 404 Water Quality Certification.
 - Design and/or approve cofferdams and superstructure shop drawings.
 - Prepare Bridge Condition Report and Preliminary Bridge Design and Hydraulic Report, (including economic analysis of bridge or culvert types and high water effects on roadway overflows and bridge approaches).
 - Prepare the necessary environmental and planning documents including the Project Development Report or Environmental Assessment, State Clearinghouse, Substate Clearinghouse and all necessary environmental clearances.
 - Make such soil surveys or subsurface investigations including borings and soil profiles as may be required to furnish sufficient data for the design of the proposed improvement. Such investigations to be made in accordance with the current Standard Specifications for Road and Bridge Construction, Bureau of Local Roads and Streets Administrative Policies, Federal-Aid Procedures for Local Highway Improvements or any other applicable requirements of the STATE.
 - Analyze and evaluate the soil surveys and structure borings to determine the roadway structural design and bridge foundation.
 - Prepare preliminary roadway and drainage structure plans and meet with representatives of the LPA and STATE at the site of the improvement for review of plans prior to the establishment of final vertical and horizontal alignment, location and size of drainage structures, and compliance with applicable design requirements and policies.
 - 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.
 - Complete the general and detailed plans, special provisions and estimate of cost. Contract plans shall be prepared in accordance with the guidelines contained in the Bureau of Local Roads and Streets manual. The special provisions and detailed estimate of cost shall be furnished in quadruplicate.
 - Furnish the LPA with survey and drafts in quadruplicate 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.

II. THE LPA AGREES,

1. To furnish the ENGINEER all presently available survey data and information
2. To pay the ENGINEER as compensation for all services rendered in accordance with this AGREEMENT, on the basis of the following compensation formulas:

Cost Plus Fixed Fee CPFF = 14.5%[DL + R(DL) + OH(DL) + IHDC], or
 CPFF = 14.5%[DL + R(DL) + 1.4(DL) + IHDC], or
 CPFF = 14.5%[(2.3 + R)DL + IHDC]

Where: DL = Direct Labor
 IHDC = In House Direct Costs
 OH = Consultant Firm's Actual Overhead Factor
 R = Complexity Factor

Specific Rate (Pay per element)

Lump Sum _____

3. To pay the ENGINEER using one of the following methods as required by 49 CFR part 26 and 605 ILCS 5/5-409:

With Retainage

- a) **For the first 50% of completed work**, and upon receipt of monthly invoices from the ENGINEER and the approval thereof by the LPA, monthly payments for the work performed shall be due and payable to the ENGINEER, such payments to be equal to 90% of the value of the partially completed work minus all previous partial payments made to the ENGINEER.
- b) **After 50% of the work is completed**, and upon receipt of monthly invoices from the ENGINEER and the approval thereof by the LPA, monthly payments covering work performed shall be due and payable to the ENGINEER, such payments to be equal to 95% of the value of the partially completed work minus all previous partial payments made to the ENGINEER.
- c) **Final Payment** – Upon approval of the work by the LPA but not later than 60 days after the work is completed and reports have been made and accepted by the LPA and the STATE, a sum of money equal to the basic fee as determined in this AGREEMENT less the total of the amounts of partial payments previously paid to the ENGINEER shall be due and payable to the ENGINEER.

Without Retainage

- a) **For progressive payments** – Upon receipt of monthly invoices from the ENGINEER and the approval thereof by the LPA, monthly payments for the work performed shall be due and payable to the ENGINEER, such payments to be equal to the value of the partially completed work minus all previous partial payments made to the ENGINEER.
- b) **Final Payment** – Upon approval of the work by the LPA but not later than 60 days after the work is completed and reports have been made and accepted by the LPA and STATE, a sum of money equal to the basic fee as determined in this AGREEMENT less the total of the amounts of partial payments previously paid to the ENGINEER shall be due and payable to the ENGINEER.

4. The recipient shall not discriminate on the basis of race, color, national origin or sex in the award and performance of any DOT-assisted contract or in the administration of its DBE program or the requirements of 49 CFR part 26. The recipient shall take all necessary and reasonable steps under 49 CFR part 26 to ensure nondiscrimination in the award and administration of DOT-assisted contracts. The recipient's DBE program, as required by 49 CFR part 26 and as approved by DOT, is incorporated by reference in this agreement. Implementation of this program is a legal obligation and failure to carry out its terms shall be treated as violation of this agreement. Upon notification to the recipient of its failure to carry out its approved program, the Department may impose sanctions as provided for under part 26 and may, in appropriate cases, refer the matter for enforcement under 18 U.S.C. 1001 and/or the Program Fraud Civil Remedies Act of 1986 (31U.S.C. 3801 et seq.).

5. To certify by execution of this AGREEMENT that the selection of the ENGINEER was performed in accordance with the Local Government Professional Services Selection Act 50 ILCS 510, the Brooks Act 40USC 11, and Procurement, Management, and Administration of Engineering and Design related Services (23 CFR part 172). Exhibit C is required to be completed with this agreement.

III. IT IS MUTALLY AGREED,

1. That no work shall be commenced by the ENGINEER prior to issuance by the LPA of a written Notice to Proceed.

2. That tracings, plans, specifications, estimates, maps and other documents prepared by the ENGINEER in accordance with this AGREEMENT shall be delivered to and become the property of the LPA and that basic survey notes, sketches, charts and other data prepared or obtained in accordance with this AGREEMENT shall be made available, upon request, to the LPA or to the STATE, without restriction or limitation as to their use.
3. That all reports, plans, estimates and special provisions furnished by the ENGINEER shall be in accordance with the current Standard Specifications for Road and Bridge Construction, Bureau of Local Roads and Streets Administrative Policies, Federal-Aid Procedures for Local Highway Improvements or any other applicable requirements of the STATE, it being understood that all such furnished documents shall be approved by the LPA and the STATE before final acceptance. During the performance of the engineering services herein provided for, the ENGINEER shall be responsible for any loss or damage to the documents herein enumerated while they are in the ENGINEER's possession and any such loss or damage shall be restored at the ENGINEER's expense.
4. That none of the services to be furnished by the ENGINEER shall be sublet, assigned or transferred to any other party or parties without written consent of the LPA. The consent to sublet, assign or otherwise transfer any portion of the services to be furnished by the ENGINEER shall not be construed to relieve the ENGINEER of any responsibility for the fulfillment of this agreement.
5. To maintain, for a minimum of 3 years after the completion of the contract, adequate books, records and supporting documents to verify the amounts, recipients and uses of all disbursements of funds passing in conjunction with the contract; the contract and all books, records and supporting documents related to the contract shall be available for review and audit by the Auditor General and the STATE; and to provide full access to all relevant materials. Failure to maintain the books, records and supporting documents required by this section shall establish a presumption in favor of the STATE for the recovery of any funds paid by the STATE under the contract for which adequate books, records and supporting documentation are not available to support their purported disbursement.
6. The payment by the LPA in accordance with numbered paragraph 3 of Section II will be considered payment in full for all services rendered in accordance with this AGREEMENT whether or not they be actually enumerated in this AGREEMENT.
7. That the ENGINEER shall be responsible for any and all damages to property or persons arising out of an error, omission and/or negligent act in the prosecution of the ENGINEER's work and shall indemnify and save harmless the LPA, the STATE, and their officers, agents and employees from all suits, claims, actions or damages of any nature whatsoever resulting there from. These indemnities shall not be limited by the listing of any insurance policy.
8. This AGREEMENT may be terminated by the LPA upon giving notice in writing to the ENGINEER at the ENGINEER's last known post office address. Upon such termination, the ENGINEER shall cause to be delivered to the LPA all drawings, plats, surveys, reports, permits, agreements, soils and foundation analysis, provisions, specifications, partial and completed estimates and data, if any from soil survey and subsurface investigation with the understanding that all such material becomes the property of the LPA. The LPA will be responsible for reimbursement of all eligible expenses to date of the written notice of termination.

9. This certification is required by the Drug Free Workplace Act (30ILCS 580). The Drug Free Workplace Act requires that no grantee or contractor shall receive a grant or be considered for the purpose of being awarded a contract for the procurement of any property or service from the State unless that grantee or contractor will provide a drug free workplace. False certification or violation of the certification may result in sanctions including, but not limited to, suspension of contract or grant payments, termination of a contract or grant and debarment of the contracting or grant opportunities with the State for at least one (1) year but no more than five (5) years.

For the purpose of this certification, "grantee" or "contractor" means a corporation, partnership or other entity with twenty-five (25) or more employees at the time of issuing the grant, or a department, division or other unit thereof, directly responsible for the specific performance under a contract or grant of \$5,000 or more from the State, as defined in the Act.

The contractor/grantee certifies and agrees that it will provide a drug free workplace by:

- a. Publishing a statement:
 - (1) Notifying employees that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance, including cannabis, is prohibited in the grantee's or contractor's workplace.
 - (2) Specifying the actions that will be taken against employees for violations of such prohibition.
 - (3) Notifying the employee that, as a condition of employment on such contract or grant, the employee will:
 - (a) abide by the terms of the statement; and
 - (b) notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than five (5) days after such conviction.
 - b. Establishing a drug free awareness program to inform employees about:
 - (1) The dangers of drug abuse in the workplace;
 - (2) The grantee's or contractor's policy of maintaining a drug free workplace;
 - (3) Any available drug counseling, rehabilitation and employee assistance program; and
 - (4) The penalties that may be imposed upon an employee for drug violations.
 - c. Providing a copy of the statement required by subparagraph (a) to each employee engaged in the performance of the contract or grant and to post the statement in a prominent place in the workplace.
 - d. Notifying the contracting or granting agency within ten (10) days after receiving notice under part (B) of paragraph (3) of subsection (a) above from an employee or otherwise receiving actual notice of such conviction.
 - e. Imposing a sanction on, or requiring the satisfactory participation in a drug abuse assistance or rehabilitation program by,
 - f. Assisting employees in selecting a course of action in the event drug counseling, treatment and rehabilitation is required and indicating that a trained referral team is in place.
 - g. Making a good faith effort to continue to maintain a drug free workplace through implementation of the Drug Free Workplace Act.
10. The ENGINEER or subconsultant shall not discriminate on the basis of race, color, national origin or sex in the performance of this AGREEMENT. The ENGINEER shall carry out applicable requirements of 49 CFR part 26 in the administration of DOT assisted contracts. Failure by the ENGINEER to carry out these requirements is a material breach of this AGREEMENT, which may result in the termination of this AGREEMENT or such other remedy as the LPA deems appropriate.
11. When the ENGINEER is requested to complete work outside the scope of the original AGREEMENT, a supplemental AGREEMENT will be required. Supplements will also be required for the addition or removal of subconsultants, direct costs, the use of previously unspecified staff, and other material changes to the original AGREEMENT.

Agreement Summary

Prime Consultant:	TIN Number	Agreement Amount
Cummins Engineering Corporation	371376743	\$129,169.55
Sub-Consultants:	TIN Number	Agreement Amount
Sub-Consultant Total:		
Prime Consultant Total:		\$129,169.55
Total for all Work:		\$129,169.55

Executed by the LPA:

Vermilion County
(Municipality/Township/County)

ATTEST:

By: Cathy Jenkins (clw)
County Clerk

By: [Signature]
Title: County Board Chairman

(SEAL)

Executed by the ENGINEER:

ATTEST:

By: Michael P. C.
Title: President

Cummins Engineering Corporation

By: [Signature]
Title: CEO

EXHIBIT A

Cost Estimate of Consultant Services CPFF
 JOB: 2624.1
 CLIENT: Vermilion County
 PROJECT: CH 14 Safety Improvement Project
 SECTION: 19-00216-00-SP
 FUNDING: FED HSIP FUNDS

103.47%
 1.0000 DL
 1.0347 OH
 0.3480 EE
 2.3827

Overhead Rate
 CPFF = 14.5%DL+R(DL) + 1.4(DL) + IHDC]
 R = 0, IHDC = 0 for this project
 FF = 34.80% x DL
 (EQUIVALENT DLM)

ITEM	PE V	PE V/SE	PE III	PE I	SE I	ET IV	ET I	OM	PLS	SURVEYOR	CREW CHIEF	ET II	TOTAL
ENGINEERING SERVICES:													
ADMINISTRATION	8					10		10					28
QA/QC	6	2	16										24
FIELD CHECKS	8	8			8								32
ENVIRONMENTAL / PERMITS	4			42									46
HYDRAULICS / CULVERT SIZING	2			60		8							70
MEETINGS & EXHIBITS	12			16		40	14						82
PRELIM DESIGN / ALIGNMENT STUDY	6			20		110	34						170
PROJECT DEVELOPMENT REPORT	2			30		40	8		12	8			80
SOIL TESTS & PAVEMENT DESIGN			12										32
PRE-FINAL PS&E - PHASE II	6	6		16	34	88	54						204
FINAL PS&E	2					38	18						58
SURVEY SERVICES:													
PREP / QA QC									6				6
H&V CONTROL / DTM / TOPO FIELD									4	166	166		336
DTM / TOPO OFFICE										8	8	60	76
ALIGNMENT STAKING										16	16		32
EXISTING ROW & RELATED										36	48		84
TOTAL HOURS	56	16	28	184	42	342	128	10	34	234	238	60	1372
HOURLY RATE	\$65.00	\$65.00	\$54.00	\$40.25	\$42.00	\$46.00	\$29.50	\$31.50	\$52.00	\$27.50	\$32.50	\$35.50	
DIRECT LABOR (DL)	\$3,640.00	\$1,040.00	\$1,512.00	\$7,406.00	\$1,764.00	\$15,732.00	\$3,776.00	\$315.00	\$1,768.00	\$6,435.00	\$7,735.00	\$2,130.00	\$53,263.00
OVERHEAD (OH)	\$3,766.31	\$1,076.09	\$1,564.47	\$7,662.99	\$1,825.21	\$16,277.90	\$3,907.03	\$325.93	\$1,829.35	\$6,658.29	\$8,003.40	\$2,203.91	\$55,100.88
FIXED FEE (FF)	\$1,266.72	\$361.92	\$526.18	\$2,577.29	\$613.87	\$5,474.74	\$1,314.05	\$109.62	\$615.26	\$2,239.38	\$2,691.78	\$741.24	\$18,532.04
TOTAL (DL + OH + FF)	\$8,673.03	\$2,478.01	\$3,602.64	\$17,646.28	\$4,203.08	\$37,484.64	\$8,997.08	\$750.55	\$4,212.61	\$15,332.67	\$18,430.18	\$5,075.15	\$126,885.92

DIRECT COSTS (see attached spreadsheet for breakdown)

PRINTING \$228.00
 MILEAGE \$2,055.63
TOTAL \$129,169.55

**Cummins
Engineering
Corporation**

135 West Lake Shore Drive
Springfield, Illinois 62703
Phone: 217-726-8570

**DIRECT COST
FAS 496 (Attica Road)
CH 14 Safety Improvement
Vermillion County
Section 19-00216-00-SP
CEC Job #2624.1**

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>RATE</u>	<u>AMOUNT</u>
Printing	12 full size color prints	12	\$ 10.00	\$120.00
	Foam boards for mounting	12	\$ 9.00	\$108.00
subtotal				\$228.00
Mileage	13 Round Trips (275 mi/trip)	3575	\$ 0.575	\$2,055.63
subtotal				\$2,055.63
Total				\$2,283.63

Exhibit B



**Engineering Payment Report
(Submit with Final Invoice)**

Prime Consultant

Name _____
 Address _____
 Telephone _____
 TIN Number _____

Project Information

Local Agency _____
 Section Number _____
 Project Number _____
 Job Number _____

This form is to verify the amount paid to the Sub-consultant on the above captioned contract. Under penalty of law for perjury or falsification, the undersigned certifies that work was executed by the Sub-consultant for the amount listed below.

Sub-Consultant Name	TIN Number	Actual Payment from Prime
Sub-Consultant Total:		
Prime Consultant Total:		
Total for all Work Completed:		

 Signature and title of Prime Consultant

 Date

Note: The Department of Transportation is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under state and federal law. Disclosure of this information is REQUIRED and shall be deemed as concurring with the payment amount specified above.

For information about IDOT's collection and use of confidential information review the department's [Identity Protection Policy](#).

**Exhibit C
Federal Qualification Based Selection (QBS) Checklist**

Local Public Agency Vermilion County Highway
 Section Number 19-00216-00-SP
 Project Number UD63(586)
 Job Number P-95-001-21

The LPA must complete Exhibit C, if federal funds are used for this engineering agreement and the value will exceed \$40,000. The LPA must follow federal small purchase procedures, if federal funds are used and the engineering agreement has a value less than \$40,000.

Form Not Applicable (engineering services less than \$40,000)

1.	Do the written QBS policies and procedures discuss the initial administration (procurement, management, and administration) concerning engineering and design related consultant services? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
2.	Do the written QBS policies and procedures follow the requirements as outlined in Section 5-5 and specifically Section 5-5.06(e) of the <i>BLRS Manual</i> ? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If no, IDOT's approval date: _____		
3.	Was the scope of services for this project clearly defined? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
4.	Was public notice given for this project? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Due date of submittal: <u>11/20/2019</u> Method(s) used for advertisement and dates of advertisement: <u>Local Newspaper and Official State Newspaper printed on 11/6/19</u>		
5.	Do the written QBS policies and procedures cover conflicts of interest? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
6.	Do the written QBS policies and procedures use covered methods of verification for suspension and debarment? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
7.	Do the written QBS policies and procedures discuss the method of evaluation? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
	Criteria for this project	Weighting	Criteria for this project Weighting
	<u>Relevant Experience</u>	<u>25 %</u>	<u>Available work capacity</u> <u>10%</u>
	<u>Key staff identified</u>	<u>10 %</u>	<u>Communication skills</u> <u>10%</u>
	<u>Support staff</u>	<u>10 %</u>	<u>Reputation</u> <u>5%</u>
	<u>Technical approach</u>	<u>25 %</u>	<u>Presentation & interview</u> <u>5%</u>
8.	Do the written QBS policies and procedures discuss the method of selection? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Selection committee (titles) for this project: <u>Adrian L. Greenwell - County Engineer; Janet Payonk - Assistant County Engineer; George Davis - Project Engineer</u> Top three consultants selected for this project in order: 1) <u>Cummins Engineering Corporation</u> 2) <u>Hutchison Engineering, Inc.</u> 3) <u>Kaskaskia Engineering Group, LLC.</u> If less than 3 responses were received, IDOT's approval date: _____		
9.	Was an estimated cost of engineering for this project developed in-house prior to contract negotiation? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
10.	Were negotiations for this project performed in accordance with federal requirements? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
11.	Were acceptable costs for this project verified? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> LPA will rely on IDOT review and approval of costs.		
12.	Do the written QBS policies and procedures cover review and approving for payment, before forwarding the request for reimbursement to IDOT for further review and approval? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
13.	Do the written QBS policies and procedures cover ongoing and finalizing administration of the project (monitoring, evaluation, closing-out a contract, record retention, responsibility, remedies to violations or breaches to a contract, and resolution of disputes)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

SCOPE OF WORK

Project Overview: Vermilion County was granted HSIP funds for safety improvements to CH 14, Attica Road. The Project is located from the East City Limit of Rossville, Illinois to the Indiana State Line. The project length is 6.9 miles. Improvements include addition of 4' HMA shoulders with rumble strips and removal of concrete headwalls from the clear zone throughout the project and roadway re-alignment and intersection improvements at the Indiana State Line.

Project Funds: FY 2021 Federal Local HSIP with Local match for engineering & construction

Limits of PE I Study Corridor: from the corporate limits of Rossville, heading easterly 7.1 miles to a point 1000' east of the Indiana state line at the bridge over Jordan Creek.

Scope of Services: Phase I & II engineering services are needed for all necessary work to receive Design approval and to prepare the plans, specifications and estimates (PS&E) package. The project is anticipated to be processed as a State Approved Categorical Exclusion.

Items of CEC Design Work:

1. Topographic Field Survey Work (See attached)
2. Submit State CE Local Project Development Report.
3. Provide exhibits as needed for Public Meeting.
4. Provide other coordination assistance for Phase I (utilities, railroad, Indiana)
 - Utilities: Gas pipeline, rural electric and telephone
 - Shoulders at KBS Railroad crossing
 - Warren County Indiana intersection and road alignment issues
 - Property owner coordination for entrance relocation and re-alignment
5. Construct Hot-Mix Asphalt Shoulders and Shoulder Rumble Strips on CH 14.
 - Width of existing roadway = 20'
 - Typical cross section for asphalt shoulders
 - Typical cross section & pavement design for proposed re-aligned CH 14
6. Replace hazardous entrance and sideroad culverts.
 - Remove concrete headwalls
 - Regrade the ditches to allow for 3:1 foreslopes beyond edge of proposed shoulder.
 - Seed and provide proper erosion control measures.
 - Job will likely require dirt throughout
 - FE Entrance width = 15'-18' desired
 - Use aluminized steel on all replacement entrance pipe culverts
7. Ditch cleaning where warranted
8. Evaluate crossroad culverts for extension or replacement.
 - Approximately fourteen (14) culverts of various sizes and types. Larger culverts (4) are likely to be extended with cast-in-place extensions. Smaller culverts (10) are likely to be replaced with new concrete pipes.
 - Limited hydraulic size evaluation and structural integrity check for re-use
 - Evaluate cross section for asphalt shoulder installation and 3:1 slopes
 - Determine erosion control or riprap requirements
9. Evaluate 3 bridges for guardrail improvement
 - Field check: 2 of the 3 bridges will need guardrail upgrades

- Guardrail at new triple box culvert – offset appears ok and will likely not need adjustment.
- Coordinate request to approve the replacement of aggregate shoulder across the triple box culvert with asphalt shoulder.

10. Intersection Drainage

- Remove former railroad pipe culvert
- Replace short box culvert with longer structure
- Eliminate guardrail

11. Intersection Alignment

- Vertical sight distance issues from Indiana approach
- PE I Study of alignment alternatives
- Perform DCP tests (4 or 5) to determine soil strength and prepare a pavement design
- Consider future work, if any, to be done in Indiana
- Consider right-of-way requirements
- Balance earthwork, if possible

12. ROW

- Identify Right of Way requirements throughout
- Temporary easements may be required at entrances

13. Deliverables

- Draft and Final Local Project Development Report
- Preliminary Plans for Public Meeting and Coordination
- Pre-final and Final PS&E with Electronic Submittal Process

Items of Survey Work:

- Horizontal and vertical control
- Re-establish original alignment and stationing from existing plans.
- Topo survey at all cross-road culverts
- Topo survey at Indiana state line
- Topo survey to Jordan Creek bridge in Indiana
- Right-of-way proposed at Indiana state line – courthouse research
- Former railroad right-of-way may be utilized for proposed CH 14 alignment
- Typical cross sections @ 300' intervals for the entire length and 50' intervals through curves
- Pickup entrances / sideroads / entrances with centerline profiles
- Establish the existing ROW the entire length
- Boundary research at potential proposed ROW sites with preliminary investigation in the field

Note:

- The Environmental Survey Request & PESA Level II Screening (with D5 screening forms) are being completed ahead of time and are not included in this agreement.
- A PESA is not anticipated and, therefore, not included.
- Right of Way acquisition needs including Highway Plats & Legals is not known at this time, and therefore, not included.