

Municipality	LOCAL AGENCY	 <b>Illinois Department of Transportation</b>  <b>Preliminary/Construction Engineering Services Agreement For Motor Fuel Tax Funds</b>	CONSULTANT	Name
Township				Cummins Engineering Corporation
County				Address
Macoupin				615 South Fifth Street
Section				City
10-00068-02-FP				Springfield
				State
				Illinois

THIS AGREEMENT is made and entered into this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ 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 Shipman Cutoff Road Route CH 57 Length \_\_\_\_\_ KM( 2.944 Miles)(Structure No. N/A )

Termini Miles Station Road to South Corporate Limits of Shipman, Illinois

#### Description

Provide PE III engineering services for the improvement of the Shipman Cutoff Road. The improvement will involve the construction of a soil-cement base course.

#### 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.
- 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	(see note)
Under \$50,000	_____	%
	_____	%
	_____	%
	_____	%
	_____	%

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

2. To pay for services stipulated in paragraphs 4b, 4e, 4d, 4e, 4f, 4h, 1j and 1k 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 4b, 4e, 4d, 4e, 4f, 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
Resident Engineer	_____ See Attached Hourly Rate Schedule
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

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 11/01/2011. In event the services of the ENGINEER extend beyond 11/01/2011, the hourly rates will be adjusted yearly by addendum to 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:
- N/A 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.
- N/A 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 the construction of the improvement, 100 percent of the fee due for services stipulated in paragraphs 1j and 1k.
- d. 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.

By mutual agreement, partial payments may be made from time to time as the work progresses.

4. That should the improvements be abandoned at any time after the ENGINEER has performed any part of the services provided for in paragraphs 1j and 1k, and prior to the completion of such services the LA shall reimburse the ENGINEER in accordance with the attached hourly rates.
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 in accordance with the attached hourly rates. 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.
6. That should the LA extend completion of the improvement beyond the time limit given in the contract, the LA will pay the ENGINEER, in addition to the fees provided herein, his actual cost incurred beyond such time limit - "actual cost" being defined as in paragraph 4 above.

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**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.



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:

County of Macoupin of the  
(Municipality/Township/County)

ATTEST:

State of Illinois, acting by and through its

By [Signature]  
County Clerk  
(Seal)

By [Signature]  
Title: Chairman

Executed by the ENGINEER:

Cummins Engineering Corporation

615 South Fifth Street

Springfield, Illinois 62703

ATTEST:  
By [Signature]  
Title: Vice President

[Signature]  
Title: President

Approved
_____
Date
Department of Transportation
_____
Regional Engineer



Macoupin County  
CH 57  
Shipman Cutoff Road

### SCOPE OF WORK

Length of Project 2.944 miles  
Project Limits Miles Station Road to the South Corporate Limits of Shipman, Illinois

#### Items of Work (Construction)

1. Construction of a Soil-Cement Base Course.
2. A-2 Surface Treatment to be done the Macoupin County.

#### Items of Work (Engineering)

1. Resident Engineering Services
  - a. Resident Engineer will represent Macoupin County during the construction of the project.
  - b. Resident Engineer's responsibilities.
    - i. General charge of inspection activities insuring that the project is constructed in accordance with the approved plans and specifications.
    - ii. Responsible for documentation of pay quantities in accordance with IDOT's policies.
    - iii. Responsible for keeping a project diary entering; weather conditions, the daily activities of the contractor, problems during construction, special instructions given to the contractor, tracking working days used by the contractor, and any other pertinent information about the project.
    - iv. Order staking as needed utilizing the services of MERS.
2. QA Testing of soil-cement base course
  - a. Monitor the compaction of the soil-cement base course during the compacting of the soil-cement base course.

**Cummins  
Engineering  
Corporation**

615 South Fifth Street  
Springfield, Illinois 62703  
Phone: 217-726-8570  
Fax: 217-523-2312

**HOURLY BILLING RATES- CONSTRUCTION ENGINEERING**  
(Including Overhead and Profit as of May 1, 2011)

<b><u>CLASSIFICATION</u></b>	<b><u>HOURLY RATE</u></b>
PRINCIPAL	\$146.30
STRUCTURAL ENGINEER	\$146.30
PROFESSIONAL ENGINEER V	\$146.30
PROFESSIONAL ENGINEER IV	\$119.70
PROFESSIONAL ENGINEER III	\$105.00
PROFESSIONAL ENGINEER II	\$81.20
PROFESSIONAL ENGINEER I	\$78.40
PROJECT MANAGER II	\$119.70
PROJECT MANAGER I	\$116.20
ENGINEER I	\$65.38 \$60.62
RESIDENT ENGINEER	\$97.50
ENGINEERING TECHNICIAN IV	\$107.90
ENGINEERING TECHNICIAN III	\$84.00
ENGINEERING TECHNICIAN II	\$75.60
OFFICE MANAGER	\$49.70

Hourly Billing Rates are adjusted to account for annual salary adjustments effective May 1 or November 1. This schedule is also updated periodically to reflect changes in personnel. The most current schedule is attached to hourly agreements but these rates are subject to change annually and as necessary to reflect changes in personnel.

# Cummins Engineering Corporation

615 South Fifth Street  
Springfield, Illinois 62703  
Phone: 217-726-8570  
Fax: 217-523-2312

Construction Engineering  
Macoupin County  
Section 10-00068-02-FP  
CH 57 (Shipman Cutoff)

## DIRECT COSTS

### Mileage

Mileage reimbursement – 2,010 miles x \$0.51/mile = \$ 1,025.10

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**Total Direct Costs** = \$ 1,025.10

## CONSTRUCTION ENGINEERING

Resident Engineer – 160 Hours @ \$97.50 = \$15,600.00

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**Total Labor Costs** = \$15,600.00

**Total Contract Costs** = \$16,625.10

Note: Construction Staking will be provided under the original contract by  
Michael E. Rapier Surveying, Inc. (Upper Limit on Staking \$1,475.00)