



MEMORANDUM

TO: Mayor Laurel Lunt Prussing and Members of the City Council
FROM: William R. Gray, Public Works Director
DATE: May 15, 2014
RE: Construction Engineering Services Agreement for the Olympian Drive Improvements and Budget Amendment Ordinance

Introduction

In 2010 the City Council approved an agreement (\$1,160,000) with Hanson Professional Services, Inc. from Springfield to provide engineering services to design the Olympian Drive Improvement between Apollo Road and Lincoln Avenue (1.1 mile). The improvements include constructing a bridge over five Canadian National railroad tracks, new concrete road with two twelve foot lanes, ten foot asphalt paved shoulders, left turn lanes at the intersecting streets, and drainage improvements. The project design, plans, and specifications have been approved by Illinois Department of Transportation (IDOT), City of Champaign, Champaign County, and City of Urbana. This project is in the process of being awarded by IDOT to Feutz Contractors Inc. from Champaign, Illinois in the amount of \$7,092,062.46, which is below the Engineer's Estimate of \$9,004,747.50.

The City Council previously approved an IDOT/City Local Agency Agreement that identifies the construction and construction engineering funding available for this project. The construction engineering services for the next two years include: administrative management, contract bidding assistance, shop drawing and contractor submittals and review, construction observation, surveying, material testing, daily inspections and reporting, pay estimate preparation, and railroad and utility coordination meetings. (See attached agreement.) These consultant services are not expected to exceed \$800,000.

Funding

Funding for these services is from the State of Illinois, Illinois Jobs Now and the Illinois Commerce Commission Grade Crossing Protection Fund. The City has no local share or expense other than staff time devoted to this project. The City will make payment to the consultant and the City will seek reimbursement from IDOT. IDOT will pay the contractor directly for all construction related work.

Recommendation

It is recommended that a Resolution Authorizing Entering into and Execution of Construction Engineering Services Agreement for Illinois Jobs Now Funds and Grade Crossing Protection Funds (Construction Engineering Services Agreement for Olympian Drive Project) and an Ordinance Revising the Annual Budget Ordinance, FY2013-14 (Olympian Drive Construction Engineering 2014) be approved.

Attachments: Resolution
Ordinance
Agreement

ORDINANCE 2014-05-051

An Ordinance Revising the Annual Budget Ordinance

FY2013-14

(Olympian Drive Construction Engineering 2014)

WHEREAS, the Annual Budget Ordinance of and for the City of Urbana, Champaign County, Illinois, for the fiscal year beginning July 1, 2013, and ending June 30, 2014, (the "Annual Budget Ordinance") has been duly adopted according to Sections 8-2-9.1 et seq. of the Illinois Municipal Code (the "Municipal Code") and Division 2, entitled "Budget", of Article VI, entitled "Finances and Purchases", of Chapter 2, entitled "Administration", of the Code of Ordinances, City of Urbana, Illinois (the "City Code"); and

WHEREAS, the City Council of the said City of Urbana finds it necessary to revise said Annual Budget Ordinance by deleting, adding to, changing or creating sub-classes within object classes and object classes themselves; and

WHEREAS, funds are available to effectuate the purpose of such revision; and

WHEREAS, such revision is not one that may be made by the Budget Director under the authority so delegated to the Budget Director pursuant to section 8-2-9.6 of the Municipal Code and section 2-133 of the City Code.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF URBANA, ILLINOIS, as follows:

Section 1. That the Annual Budget be and the same is hereby revised to provide as follows:

FUND: Capital Replacement & Improvements Fund

ADD REVENUE: Olympian Drive GCPF - \$850,000

A09-0-0121-0000

FUND: Capital Replacement & Improvements Fund

ADD EXPENSE: Olympian Dr Const Engineering - \$850,000

A09-1-0400-0601

Section 2. This Ordinance shall be effective immediately upon passage and approval and shall not be published.

Section 3. This Ordinance is hereby passed by the affirmative vote of two-thirds of the members of the corporate authorities then holding office, the "ayes" and "nays" being called at a regular meeting of said Council.

PASSED by the City Council this _____ day of _____, _____.

AYES:

NAYS:

ABSTAINED:

Phyllis D. Clark, City Clerk

APPROVED by the Mayor this _____ day of _____, _____.

Laurel Lunt Prussing, Mayor

RESOLUTION NO. 2014-05-026R

**A RESOLUTION AUTHORIZING ENTERING INTO AND EXECUTION OF
CONSTRUCTION ENGINEERING SERVICES AGREEMENT FOR ILLINOIS JOBS
NOW FUNDS AND GRADE CROSSING PROTECTION FUNDS**

(Construction Engineering Services Agreement for Olympian Drive Project)

WHEREAS, the City of Urbana (“City”) is a home rule unit of local government pursuant to Article VII, Section 6, of the Illinois Constitution, 1970, and may exercise any power and perform any function pertaining to its government and affairs, including the power to regulate for the protection of the public health, safety, and welfare; and

WHEREAS, the City has joined with Champaign County and the City of Champaign in applying for and obtaining certain funding for engineering in connection with the construction of a bridge over the Canadian National railroad tracks, a concrete roadway, paved shoulders, left turn lanes, and drainage improvements for Olympian Drive between Apollo Road and Lincoln Avenue (the “Project”); and

WHEREAS, in 2010 the City Council approved an agreement with Hanson Professional Services, Inc. to provide engineering services to design the Project; and

WHEREAS, the City Council previously approved an Illinois Department of Transportation/City Local Agency Agreement that identifies the construction and construction engineering funding available for the Project; and

WHEREAS, Hanson Professional Services, Inc. will be necessary over the next two years to provide additional engineering and engineering-related services to undertake the next phase of the Project including, but not necessarily limited to, contract bidding assistance, shop drawing and contractor submittals and review, surveying, geotechnical and material testing, daily inspections and reporting, pay estimate preparation, railroad and utility coordination, meetings and project coordination; and

WHEREAS, funding for the immediate aforesaid engineering services will be provided by the State of Illinois, Illinois Jobs Now program, along with additional funds from the Illinois Commerce Commission Grade Crossing Protection Fund, for a total amount not to exceed \$850,000 with the City making payment to the aforesaid engineering consultant and, thereafter, applying for reimbursement from the aforesaid state funding programs; and

WHEREAS, the City Council deems it appropriate for the City to enter into and execute the Construction Engineering Services Agreement for Illinois Jobs Now Funds And Grade Crossing Protection Funds in order to commence and undertake the Project.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Urbana, Champaign County, Illinois, as follows:

Section 1. The Mayor shall be and hereby is authorized to enter into and execute on behalf of the City of Urbana an agreement in form and substance substantially similar to Exhibit A appended to and incorporated into this Resolution.

Section 2. The Mayor shall be and hereby is authorized to negotiate such additional terms of such an Agreement with the Illinois Department of Transportation as the Mayor deems necessary and appropriate and which would be agreed to by the said Department.

Section 3. That the Mayor shall be and hereby is authorized to undertake such other actions as are necessary to carry out the purpose and intent of this Resolution.

PASSED BY THE CITY COUNCIL this ____ day of _____, _____.

AYES:

NAYS:

ABSENT:

ABSTAINED:

Phyllis D. Clark, City Clerk

APPROVED BY THE MAYOR this ____ day of _____, _____.

Laurel Lunt Prussing, Mayor

Municipality City of Urbana	L O C A L A G E N C Y	 Illinois Department of Transportation Preliminary/Construction Engineering Services Agreement For Motor Fuel Tax Funds	C O N S U L T A N T	Name Hanson Professional Services Inc.
Township				Address 1525 South Sixth Street
County Champaign				City Springfield
Section 99-00259-01-PV				State IL

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 PROJECT. 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.

WHEREVER IN THIS AGREEMENT or attached exhibits the following terms are used, they shall be interpreted to mean:

Regional Engineer	Deputy Director Division of Highways, Regional Engineer, Department of Transportation
Resident Construction Supervisor	Authorized representative of the LA in immediate charge of the engineering details of the PROJECT
Contractor	Company or Companies to which the construction contract was awarded

Section Description

Name Olympian Drive Route FAP 813 Length 1.22 miles Structure No. 010-4556

Termini Apollo Drive to North Lincoln Avenue

Description

The extension of existing Olympian Drive will consist of a two lane roadway with concrete pavement and asphalt shoulders. The improvement will tie into existing North Lincoln Avenue on the east side and the concrete pavement will continue into this intersection. North Lincoln Avenue will be reconstructed near the intersection with Hot-Mix Asphalt pavement. Other work for this project includes a proposed bridge over the IC Railroad, a regional detention pond, borrow pit, pavement marking, culvert placement, signing and landscaping. Four lanes of embankment will be built from Apollo Drive to the IC Railroad and two lanes of embankment will be built from the IC Railroad to North Lincoln Avenue.

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 construction observer 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. Observation of the work and the contractor's operations as construction proceeds, but the ENGINEER does not guarantee the performance of the contract by the contractor.
 - b. 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.
 - c. Supervision of observers, proportioning engineers and other technical personnel and the taking and submitting of material samples.
 - d. Revision of contract drawings to reflect record conditions.
 - e. 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.

NOTE: When Federal funds are used for construction and the ENGINEER or the ENGINEER's assigned staff is named as resident construction supervisor, the ENGINEER is required to be prequalified with the STATE in Construction Inspection. The onsite resident construction supervisor and project inspectors shall possess valid Documentation of Contract Quantities certification.

- 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 PROJECT 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)
	_____	%
	_____	%
	_____	%
	_____	%
	_____	%

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

2. To pay for services stipulated in paragraphs 1b, 1c, 1d, 1e, 1f, 1h, 1j and 1k of THE ENGINEER AGREES at the hourly rates stipulated below for personnel assigned to this PROJECT 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 1b, 1c, 1d, 1e, 1f, 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. **See attached sheets for consultant employee classifications and hourly rates.**

Grade Classification of Employee

Hourly Rate

Principal Engineer	_____
Resident Construction Supervisor	_____
Chief of Party	_____
Instrument Man	_____
Rodmen	_____
Inspectors	_____
_____	_____
_____	_____

Compensation will be limited to a total cost of \$797,500.00, including \$792,712.00 in labor, overhead and direct costs and \$4,788.00 as a fixed fee. This compensation will be a maximum amount unless supplemental costs are approved by the LA. See attachment B for detailed cost of services.

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 12/31/2016. In event the services of the ENGINEER extend beyond 12/31/2016, 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:
 - 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 the construction of the improvement, 90 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, not to exceed 90 percent of the amount earned, 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 1a and 1g, and prior to the completion of such services the LA shall reimburse the ENGINEER for his actual costs plus 173.01 percent incurred up to the time he is notified in writing of such abandonment "actual cost" being defined as material costs plus actual payrolls, insurance, social security and retirement deductions. 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 plus 173.01 percent to cover profit, overhead and readiness to serve - "actual cost" being defined as in paragraph 4 above. 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.
7. To submit approved forms BC 775 and BC 776 with this AGREEMENT when federal funds are used for construction.

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. That the attached GENERAL CONDITIONS are included in and made a part of this AGREEMENT.

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 Urbana _____ of the
 (Municipality/Township/County)

ATTEST:

State of Illinois, acting by and through its

By _____

Clerk

By _____

(Seal)

Title:

Executed by the ENGINEER:

ATTEST:

By J. W. Mull

J. T. Ball

Title: V.P.

Title: SENIOR VICE PRESIDENT

Approved

Date
Department of Transportation

Regional Engineer



**Illinois Department
of Transportation**

**Local Public Agency Resident
Construction Supervisor/ In
Responsible Charge**

Kensil A. Garnett
Acting Deputy Director Division of Highways
Regional Engineer
Department of Transportation
13473 IL Hwy 133
Paris, Illinois 61944

County	<u>Champaign</u>
Municipality	<u>City of Urbana</u>
Section	<u>99-00259-01-PV</u>
Route	<u>FAP 813</u>
Contract No.	<u>91470</u>
Job No.	<u>C-95-322-12</u>
Project	<u>M-5181(050)</u>

- I recommend the following individual as a local public agency employee qualified to be resident construction supervisor and to be in responsible charge of this construction project.
- I certify that I am in responsible charge as defined by the department of this construction project. Since the local public agency does not have a local public agency employee qualified to be the resident construction supervisor, I am recommending a consulting engineer to serve as resident construction supervisor.

Date	Signature and Title (for the Local Public Agency)
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Daniel R. White, P.E.
Applicants Name (Type or Print)

The following describes my educational background, experience and other qualifications to be resident construction supervisor of this construction project for the Local Public Agency.
For Consultants: I certify that my firm is prequalified in Construction Inspection and my Documentation of Contract Quantities certificate number is 13-0567.

EDUCATION:
University of Illinois, Urbana-Champaign, Illinois
Bachelor of Science, Civil Engineering

REGISTRATION:
Professional Engineer (#062-042541) Illinois, 1985

Mr. White has over 35 years of transportation and civil engineering experience. This experience is concentrated in the construction and maintenance of various types of work: resurfacing and widening, bridge re-construction, partial depth deck patching, storm sewer and pipe culvert installation, bituminous and concrete pavement patching, traffic control layout and inspection, earthwork slope staking, and a survey crew chief for a variety of design projects. He has been responsible for ensuring contractor compliance, communication with all parties, maintaining documentation, ensuring proper material inspection, preparing change orders, monitoring progress schedule, preparation of frequent progress and final pay estimates, change orders, and final documentation. He has significant experience in managing the construction of all aspects of road and bridge construction.

<u>5/1/2014</u> Date	 Signature of Applicant	<u>Project Manager/Senior Resident Engineer</u> Job Title of Applicant
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Based on the above information and my knowledge of the applicant's experience and training, it is my opinion that the applicant is qualified to serve as the resident construction supervisor on this construction project.

Approved	Date	Deputy Director Division of Highways Regional Engineer
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cc: Engineer of Local Roads and Streets, Central Bureau of Local Roads and Streets
Engineer of Construction, Central Bureau of Construction
Resident Construction Supervisor
Local Public Agency

Instructions for Preparation of Form BC 775

23 CFR 635.105 requires that the state transportation department (STD) has responsibility for the construction of all Federal-aid projects, and is not relieved of such responsibility by authorizing performance of the work by a local public agency or other Federal agency.

When a project is located on a street or highway over which the STD does not have legal jurisdiction, or when special conditions warrant, the STD, while not relieved of overall project responsibility, may arrange for the local public agency having jurisdiction over such street or highway to perform the work with its own forces or by contract. In those instances where a local public agency elects to use consultants for construction engineering services, the local public agency shall provide a full-time employee of the agency to be in responsible charge of the project.

The full-time local public agency employee in responsible charge of the project shall perform the following duties and functions:

- Administer inherently governmental project activities, including those dealing with cost, time, adherence to contract requirements, construction quality and scope of projects;
- Maintain familiarity of day to day project operations, including project safety issues;
- Make or participate in decisions about changed conditions or scope changes that require change orders or supplemental agreements;
- Visit and review the project on a frequency that is commensurate with the magnitude and complexity of the project;
- Review financial processes, transactions and documentation to ensure that safeguards are in place to minimize fraud, waste, and abuse;
- Direct project staff, agency or consultant, to carry out project administration and contract oversight, including proper documentation; and
- Aware of the qualifications, assignments and on-the-job performance of the agency and consultant staff at all stages of the project.

The Department of Transportation, in accordance with the requirements, requires the local public agency to identify the local public agency employee who will be in responsible charge of each Federal-Aid project which will be constructed under the supervision of the county, municipality or other public agency. County Engineers, Municipal Engineers, and full-time local public agency employees registered as a professional engineer should be identified in the pre-construction meeting minutes. All other resident construction supervisors must submit their qualifications on this form for approval by the department. Resident construction supervisors who are consultants shall be certified in Documentation of Contract Quantities and their firm shall be prequalified in Construction Inspection.

This form will be completed by the applicant, endorsed by a representative of the local public agency, and submitted to the Deputy Director Division of Highways, Regional Engineer prior to the start of construction. This signatory for the local public agency should be the County Engineer or Municipal Engineer, as applicable. In the event a municipality does not have a Municipal Engineer, the applicant will be recommended by the appropriate municipal authority.

If a consultant is named on this form, the approved form will be included as an attachment to the appropriate construction engineering consultant agreement.

This document should be discussed as part of the preconstruction conference and a copy of the approved form retained with the preconstruction meeting minutes.



**Illinois Department
of Transportation**

**Local Public Agency
Construction Inspector**

Kensil A. Garnett
Acting Deputy Director Division of Highways
Regional Engineer
Department of Transportation
13473 IL Hwy 133
Paris, Illinois 61944

County	<u>Champaign</u>
Municipality	<u>City of Urbana</u>
Section	<u>99-00259-01-PV</u>
Route	<u>FAP 813</u>
Contract No.	<u>91470</u>
Job No.	<u>C-95-322-12</u>
Project	<u>M-5151(050)</u>

I consider the following individual to be qualified as a local public agency construction inspector. In addition, I certify that adequate instruction has been given this individual concerning the requirements of the contract, specifications and construction manual which pertain to the work which he/she will inspect. This individual has been instructed on the proper procedures for any necessary tests. Furthermore, if a consultant, this individual has a valid Documentation of Contract Quantities certification.

Approved 5/1/2014
Date

 RESIDENT ENGINEER
Signature and Title of Resident Construction Supervisor

Derek Scott

Applicants Name (Type or Print)

The following describes the educational background, experience and other qualifications of the named applicant to serve as an inspector on this project.

For Consultants Employees: Documentation of Contract Quantities certificate number is 14-0513.

2012 graduate from Lake Land Community College with a Civil Engineering Technician degree.
I have worked with Edgar County Highway Department and ESI Consultants.

If the Resident from BC-775 is a consultant, the local public agency employee in responsible charge must also approve this individual.

Approved _____
Date

Signature and Title of In Responsible Charge from BC-775

Instructions for Preparation of Form BC 776

23 CFR 635.105 requires that the state transportation department (STD) has responsibility for the construction of all Federal-aid projects, and is not relieved of such responsibility by authorizing performance of the work by a local public agency or other Federal agency.

A consultant may be utilized for periodic examination and consultation or for full-time technical inspection of construction. However, the prime responsibility for general supervision of the construction must remain with the state. The state (or county or municipality under agreement with the state) cannot be relieved of its responsibility to ensure that the work is performed in accordance with the approved project plans, specifications and estimate.

Therefore, the Department of Transportation requires the local public agency to submit the qualifications of all personnel who will be assigned to construction layout and inspection duties on each Federal-Aid project which will be constructed under the supervision of the county, municipality or other local public agency. This form will be approved by the resident construction supervisor. If the resident construction supervisor is a consultant, this form will also be approved by the local public agency employee in responsible charge.

If a consultant is named on this form, the approved form will be included as an attachment to the construction engineering consultant agreement.

The approved form will be submitted to the Deputy Director Division of Highways, Regional Engineer prior to the start of construction. This form should be discussed as part of the preconstruction conference and a copy of the approved form retained with the preconstruction meeting minutes.



Local Agency Champaign County
 Section Number 99-00259-01-PV
 Project Number M-5181(050)
 Job Number C-95-322-12

The County of Champaign requests approval for construction engineering services.

Local Agency

These services will be provided using local agency employees.

Anticipated Engineering Expenses

Job Classification	Labor Hours	Pay Rate	Total
Resident Inspector	1,200.00	28.93	34,716.00

Total Direct Labor	34,716.00
Direct Expenses	0.00
Overhead and Benefits Rate (%)	N/A
Total Direct Labor x Overhead and Benefits Rate	34,716.00
Grand Total	34,716.00

JB Blue

Local Agency Official Signature

County Engineer

Local Agency Official Title

5/5/14

Date

General Conditions

Hanson Agreement: C10L0007-1

Agreement Date: _____

Project Name: Olympian Drive Construction Observation

1 Invoices: Charges for services will be billed at least as frequently as monthly, and at the completion of the Project. CLIENT shall compensate HANSON for any sales or value added taxes which apply to the services rendered under this agreement or any addendum thereto. CLIENT shall reimburse HANSON for the amount of such taxes in addition to the compensation due for services. Payment of invoices shall not be subject to any discounts or set-offs by the CLIENT unless agreed to in writing by HANSON. Invoices are delinquent if payment has not been received within 30 days from date of invoice. There will be an additional charge of 1 1/2 percent per month compounded on amounts outstanding more than 30 days. All time spent and expenses incurred (including attorney's fees) in connection with collection of any delinquent amount will be paid by CLIENT to HANSON per HANSON's current fee schedules.

2. Termination: This Agreement may be terminated by either party upon written notice. Any termination shall only be for good cause such as legal, unavailability of adequate financing or major changes in the scope of services. In the event of any termination, HANSON will be paid for all services and expenses rendered to the date of termination on a basis of payroll cost times a multiplier of 3.0 (if not previously provided for) plus reimbursable expenses, plus reasonable termination expenses, including the cost of completing analyses, records, and reports necessary to document job status at the time of termination.

3. Reuse of Documents: All documents including reports, drawings, specifications, and electronic media furnished by HANSON pursuant to this Agreement are instruments of its services. They are not intended or represented to be suitable for reuse by CLIENT or others on extensions of this project, or on any other project. Any reuse without specific written verification or adaptation by HANSON will be at CLIENT's sole risk, and without liability to HANSON, and CLIENT shall indemnify and hold harmless HANSON from all claims, damages, losses

and expenses including court costs and attorney's fees arising out of or resulting there from. Any such verification or adaptation will entitle HANSON to further compensation at rates to be agreed upon by CLIENT and HANSON.

4. Standard of Care: Services performed by HANSON under this Agreement will be conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions. No other representation expressed or implied, and no warranty or guarantee is included or intended in this Agreement, or in any report, opinion, document or otherwise. Nothing in this Agreement is intended to create, nor shall it be construed to create, a fiduciary duty owed by either party to the other party.

5. General Liability Insurance and Limitation: HANSON is covered by general liability insurance for bodily injury and property damage arising directly from its negligent acts or omissions, with limits which HANSON considers reasonable. Certificates of insurance shall be provided to CLIENT upon request in writing. HANSON shall not be responsible for any loss, damage or liability beyond the amounts, limits and conditions of such insurance. HANSON shall not be responsible for any loss, damage or liability arising from any act or omission by CLIENT, its agents, staff, other consultants, independent contractors, third parties or others working on the Project over which HANSON has no supervision or control.

6. Suspension of Services: If CLIENT fails to make payments when due or otherwise is in breach of this Agreement, HANSON may suspend performance of services upon five (5) calendar days' notice to CLIENT. HANSON shall have no liability whatsoever to CLIENT, and CLIENT agrees to make no claim for any delay or damage as a result of such suspension.

7. Consequential Damages: Notwithstanding any other provision of this Agreement, and to the fullest extent permitted by law, neither CLIENT nor

HANSON, their respective officers, directors, partners, employees, contractors or subconsultants shall be liable to the other or shall make any claim for incidental, indirect, or consequential damages arising out of or connected in any way to this Project or this Agreement. This mutual waiver of consequential damages shall include, but not be limited to, loss of use, loss of profit, loss of business, loss of income, loss of reputation and any other consequential damages that either party may have incurred from any cause of action including negligence, strict liability, breach of contract and breach of strict and implied warranty. Both CLIENT and HANSON shall require similar waivers of consequential damages protecting all the entities or persons named herein in all contracts and subcontracts with others involved in the Project.

8. Contingency Fund: The Client and Hanson acknowledge that changes may be required during construction because of possible omissions, ambiguities or inconsistencies in the plans and specifications and, therefore, that the costs of the project may exceed the construction contract sum. The Client agrees to set aside a reserve in the amount of Five Percent (5%) of the actual project construction costs as a contingency reserve to be used, as required, to pay for any such increased project costs. The Client further agrees to make no claim by way of direct or third-party action against Hanson or sub-contractors and subconsultants with respect to any payments within the limit of the contingency reserve made to the construction contractors because of such changes or because of any claims made by the construction contractors relating to such changes.

9. Additional Limitation: In recognition of the relative risks and benefits of the Project to both the CLIENT and HANSON, the risks have been allocated such that the CLIENT agrees that for the compensation herein provided HANSON cannot expose itself to damages disproportionate to the nature and scope of HANSON's services or the compensation payable to it hereunder. Therefore, the CLIENT agrees to limit its remedies against HANSON arising from HANSON's professional acts, errors or omissions, in any action based on strict liability, breach of contract, negligence or any other cause of action, such that the total aggregate amount of the CLIENT's damages shall not exceed \$50,000 or HANSON's total net fee for services rendered on the Project, whichever is greater. This limitation pertains to HANSON and to its subcontractors and subconsultants, and applies as a

single aggregate amount to all work performed under the Agreement, including all work performed under an amendment or modification. If CLIENT desires a limit greater than that provided above, CLIENT and HANSON shall include in this Agreement the amount of such limit and the additional compensation to be paid to HANSON for assumption of such additional risk. CLIENT must notify HANSON in writing, before HANSON commences any services, of CLIENT's intention to negotiate a greater limitation of remedies against Hanson and its associated impact on services, schedules, and compensation. Absent CLIENT's written notification to the contrary, HANSON will proceed on the basis that the total remedies against HANSON is limited as set forth above.

10. Personal Liability: It is intended by the parties to this Agreement that HANSON's services in connection with the Project shall not subject HANSON's individual employees, officers or directors to any personal legal exposure for the risks associated with this Project. Therefore, and notwithstanding anything to the contrary contained herein, the Client agrees that as the Client's sole and exclusive remedy, any claim, demand or suit shall be directed and/or asserted only against HANSON, a Delaware corporation, and not against any of HANSON's individual employees, officers or directors.

11. Assignment: Neither party to this Agreement shall transfer, sublet, or assign any rights or duties under or interest in this Agreement, including but not limited to monies that are due or monies that may become due, without the written consent of the other party. Subcontracting to subconsultants, normally contemplated by HANSON as generally accepted business practice, shall not be considered an assignment for purposes of this Agreement.

12. Statutes of Repose and Limitation: All legal causes of action between the parties to this Agreement shall accrue and any applicable statutes of repose or limitation shall begin to run not later than the date of Substantial Completions. If the act or failure to act complained of occurs after the date of Substantial Completion, then the date of final completion shall be used, but in no event shall any statute of repose or limitation begin to run any later than the date HANSON's services are completed or terminated.

13. Dispute Resolution: In an effort to resolve any conflicts that arise during the design and construction of this Project or following completion of this Project,

the CLIENT and HANSON agree that all disputes between them arising out of or relating to this Agreement or this Project shall be submitted to nonbinding mediation.

14. Authority and Responsibility: HANSON shall not guarantee the work of any Contractor or Subcontractor, shall have no authority to stop work, shall have no supervision or control as to the work or persons doing the work, shall not have charge of the work, and shall not be responsible for safety in, on, or about the job site or have any control of the safety or adequacy of any equipment, building component, scaffolding, supports, forms or other work aids.

15. Right of Entry: CLIENT shall provide for HANSON's right to enter property owned by CLIENT and/or others in order for HANSON to fulfill the scope of services for this Project. CLIENT understands that use of exploration equipment may unavoidably cause some damage, the correction of which is not the responsibility of HANSON.

16. Utilities: CLIENT shall be responsible for designating the location of all utility lines and subterranean structures within the property line of the Project. CLIENT agrees to waive any claim against HANSON, and to defend, indemnify and hold harmless from any claim or liability for injury or loss arising from HANSON or other persons encountering utilities or other man-made objects that were not called to HANSON's attention or which were not properly located on plans furnished to HANSON. CLIENT further agrees to compensate HANSON in defense of any such claim, in accordance with HANSON's prevailing fee schedule and expense reimbursement policy.

17. Job Site: Services performed by HANSON during construction will be limited to providing assistance in quality control and to deal with questions by the CLIENT's representative concerning conformance with drawings and specifications. This activity is not to be interpreted as an inspection service, a construction supervision service, or guaranteeing the Contractor's performance. HANSON will not be responsible for construction means, methods, techniques, sequences or procedures, or for safety precautions and programs. HANSON will not be responsible for the Contractor's obligation to carry out the work in accordance with the Contract Documents. HANSON will not be considered an agent of the owner and will

not have authority to direct the Contractor's work or to stop work.

18. Opinions of Cost: Since HANSON has no control over the cost of labor, materials or equipment or over a Contractor's method of determining prices, or over competitive bidding or market conditions, its opinions of probable Project cost or construction cost for this Project will be based solely upon its own experience with construction, but HANSON cannot and does not guarantee that proposals, bids or the construction cost will not vary from its opinions of probable costs. If the CLIENT wishes greater assurance as to the construction cost, he shall employ an independent cost estimator.

19. Shop Drawing Review: CLIENT agrees that HANSON's review of shop drawings, when such review is included in the scope of services, shall be solely for their conformance with HANSON's design intent and conformance with information given in the construction documents. HANSON shall not be responsible for any aspects of a shop drawing submission that affect or are affected by the means, methods, techniques, sequences and operations of construction, safety precautions and programs incidental thereto, all of which are the Contractor's responsibility. The Contractor will be responsible for lengths, dimensions, elevations, quantities and coordination of the work with other trades. CLIENT warrants that the Contractor shall be made aware of his responsibilities to review shop drawings and approve them in these respects before submitting them to HANSON.

20. Confidentiality: Each party shall retain as confidential, all information and data furnished to it by the other party which are designated in writing by such other party as confidential at the time of transmission, and are obtained or acquired by the receiving party in connection with this Agreement, and said party shall not disclose such information to any third party.

21. Third Party Beneficiaries: Nothing contained in this Agreement shall create a contractual relationship with or a cause of action in favor of a third party against either CLIENT or HANSON. HANSON's services under this Agreement are being performed solely for the CLIENT's benefit, and no other party or entity shall have any claim against HANSON because of this Agreement or the performance or nonperformance of services hereunder. CLIENT and HANSON agree to require a similar provision in all contracts with contractors, subcontractors,

subconsultants, vendors, and other entities involved in this Project to carry out the intent of this provision.

22. Severability: If any term or provision of this Agreement is held to be invalid or unenforceable under any applicable statute or rule of law, such holding shall be applied only to the provision so held, and the remainder of this Agreement shall remain in full force and effect.

23. Survival: Notwithstanding completion or termination of the Agreement for any reason, all rights, duties, obligations of the parties to this Agreement shall survive such completion or termination and remain in full force and effect until fulfilled.

24. Entire Agreement: This Agreement is the entire Agreement between the CLIENT and HANSON. It supersedes all prior communications, understandings and agreements, whether written or oral. Both parties have participated fully in the preparation and revision of this Agreement, and each party and its counsel have reviewed the final document. Any rule of contract construction regarding ambiguities being construed against the drafting party shall not apply in the interpreting of this Agreement, including any Section Headings or Captions. Amendments to this Agreement must be in writing and signed by both CLIENT and HANSON.

25. Modification to the Agreement: CLIENT or HANSON may, from time to time, request modifications or changes in the scope of services to be performed hereunder. Such changes, including any increase or decrease in the amount of HANSON's compensation, to which CLIENT and HANSON mutually agree shall be incorporated in this Agreement by a written amendment to the Agreement.

26. Governing Law: This Agreement shall be governed by and interpreted pursuant to the laws of the State of Illinois.



PREPARED ON: 5/13/2014

TASK	PRIN	P MGR	P ENG	ENG	JR ENG	SR TECH	TECH	CLER	TOTAL
Hanson CE III Services									
Attend Pre-Construction Meeting			4						4
Shop Drawing Review - Structural Steel			12	36				1	49
Shop Drawing Review - Bearings			4	16				1	21
Shop Drawing Review - Precast Bridge Approach Slab			6	16				1	23
Shop Drawing Review - Bridge Fence Railing (Special)			4	16				1	21
Design Calculation and Detail Review - Temporary Soil Retention System			8	16				1	25
Shop Drawing Informational Submittal - Preformed Joint Strip Seal				1				1	2
Roadway Shop Drawing Reviews			4	8					12
Quarterly Site Visits			16						16
Quarterly ICC Status Reports			8					1	9
Monthly City Website Updates			24					1	25
Field Questions/Coordination (Assume 1 hour per week during construction)			68						68
Administrative Management		12							12
SUBTOTAL HOURS PER PERSON PER TASK		12	158	109				8	287
SUBTOTAL HOURS PER PERSON PER TASK									
SUBTOTAL HOURS PER PERSON PER TASK									
SUBTOTAL HOURS PER PERSON PER TASK									
TOTAL HOURS PER PERSON		12	158	109				8	287
PERCENTAGE HOURS PER PERSON		4%	55%	38%				3%	100%

PROJECT SUMMARY									
Hanson CE III Services		12	158	109				8	287
TOTAL HOURS PER PERSON		12	158	109				8	287
PERCENTAGE HOURS PER PERSON		4.2%	55.1%	38.0%				2.8%	100%

ATTACHMENT B
 PROJECT DIRECT COSTS
 OLYMPIAN DRIVE CONSTRUCTION ENGINEERING
 CITY OF URBANA
 HANSON NO. 10L0007



Engineering | Architecture | Planning | Allied Services

PREPARED ON: 5/13/2014

TASK	In-House Direct Costs			Outside Direct Costs									Direct Costs Total	
	Mileage	Car Cost	Total	Prints	.75 / sht	Copies	.15 / sht	Subconsultant	County Direct Billings	Shipments	Shipping (\$10/Shipment)	Total		
1 Hanson CE III Services	900	\$ 585	\$ 585	150	\$ 113	600	\$ 90				20	\$ 200	\$ 403	\$ 988
2 Midwest Engineering and Testing		\$ -	\$ -		\$ -		\$ -	\$ 54,585				\$ -	\$ 54,585	\$ 54,585
3 ESI Consultants		\$ -	\$ -		\$ -		\$ -	\$ 668,702				\$ -	\$ 668,702	\$ 668,702
4 Champaign County		\$ -	\$ -		\$ -		\$ -		\$ 36,000			\$ -	\$ 36,000	\$ 36,000
Total		\$ 585	\$ 585		\$ 113		\$ 90	\$ 723,287	\$ 36,000		\$ 200	\$ 759,690	\$ 760,275	

ATTACHMENT B
PROJECT HOURLY RATES
OLYMPIAN DRIVE CONSTRUCTION ENGINEERING
CITY OF URBANA
HANSON NO. 10L0007



PREPARED ON: 5/13/2014

		PRIN	PROJ MGR	PROJ ENG	ENGINEER	JR ENGINEER	SR TECH	TECH	CLER		
TASK		\$ 72.10	\$ 64.44	\$ 45.78	\$ 33.63	\$ 26.39	\$ 35.73	\$ 27.92	\$ 26.10	TOTAL	
1	Hanson CE III Services	\$ -	\$ 773	\$ 7,234	\$ 3,666	\$ -	\$ -	\$ -	\$ 209	\$ 11,881	
2		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
3		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
4		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
TOTAL		\$ -	\$ 773	\$ 7,234	\$ 3,666	\$ -	\$ -	\$ -	\$ 209	\$ 11,881	

ATTACHMENT B
 COST ESTIMATE OF CONSULTANT SERVICES
 OLYMPIAN DRIVE CONSTRUCTION ENGINEERING
 CITY OF URBANA
 HANSON NO. 10L0007



Engineering | Architecture | Planning | Allied Services

PREPARED ON: 5/13/2014
 HANSON OVERHEAD FACTOR = 1.7301
 COMPLEXITY FACTOR =

TOTAL PROJECT ESTIMATE OF COST									
	TASK	HOURS	LABOR	OVERHEAD	IN-HOUSE DIRECT COSTS	OUTSIDE DIRECT COSTS	FEE	TOTAL	%
1	Hanson CE III Services	287	\$ 11,881	\$ 20,556	\$ 585	\$ 403	\$ 4,788	\$ 38,213	5%
2	Midwest Engineering and Testing		\$ -	\$ -	\$ -	\$ 54,585	\$ -	\$ 54,585	7%
3	ESI Consultants		\$ -	\$ -	\$ -	\$ 668,702	\$ -	\$ 668,702	84%
4	Champaign County		\$ -	\$ -	\$ -	\$ 36,000	\$ -	\$ 36,000	5%
	TOTAL	287	\$ 11,881	\$ 20,556	\$ 585	\$ 759,690	\$ 4,788	\$ 797,500	100.00%

Hanson Professional Services Inc.
Hourly Rates as of May 1, 2014

Emp #	Employee Name	Title	Hourly Rate
264	Moll, James W	Principal	\$ 74.45
951	Heyen, J Matt	Project Engineer	\$ 48.15
1010	Mendenhall, Michael N	Project Engineer	\$ 41.04
1490	Thoele, Jared G	Engineer	\$ 29.27
1573	Dowd, Corey A	Junior Engineer	\$ 25.03
978	Kohl, Elizabeth A	Clerical	\$ 25.95



Midwest Engineering and Testing, Inc.

501 Mercury Drive
 Champaign, IL 61822
 217-359-2128
 Fax 217-359-8446

Mr. Matt Heyen, P.E.
 Hanson Professional Services, Inc.
 1525 South Sixth Street
 Springfield, Illinois 62702

April 28, 2014
 Proposal for Material Testing Services
 Olympian Drive Project
 Champaign, Illinois
 MET Proposal 4064

Budget Estimate

Scope of Work Manpower Assumptions

		OT	Hours
Embankment, Subgrade, Modified Soil testing	25 days @ 8 hours		200
Pavement Concrete Testing	30 days @ 8 hours		240
Bridge Concrete Testing	40 days @ 8 hours		320
Misc Concrete Testing	8 days @ 4 hours		32
HMA Field Testing	5 days @ 8 hours		20
Backfill testing of culverts	15 days @ 8 hours		60
Total Field Time	123 days	0	872

Concrete Cylinder Assumptions - Sets of 4 cylinders

		Cylinders
Pavement Concrete Testing	2 sets/day @ 30 days	240
Bridge Concrete Testing	2 sets/day @ 40 days	320
Misc Concrete Testing	1 set/day @ 8 days	32
Total Cylinders		560

ESTIMATE WORKSHEET

	<u>Quantity</u>	<u>Unit Fee</u>	<u>Total</u>
Senior Engineering Technician, per hour	872 Hours	\$45.00	\$39,240.00
Senior Engineering Technician Overtime, per hour	0 Hours	\$67.50	\$0.00
Soil Proctor Test, per test	5 Tests	\$125.00	\$625.00
Nuclear Density Gauge, per day	40 Days	\$40.00	\$1,600.00
Concrete Test Cylinders, per test	560 Tests	\$12.00	\$6,720.00
Project Engineer report review and coordination, per hour	60 Hours	\$90.00	\$5,400.00
Principal Engineer, contract administration	8 Hours	\$125.00	\$1,000.00
			\$54,585.00

Total Budget Estimate \$54,585.00



Midwest Engineering and Testing, Inc.

geotechnical - environmental - materials engineers
 501 Mercury Drive
 Champaign, IL 61822
 217-359-2128
 FAX 217-359-8446
 www.metgeotech.com

MATERIAL SPECIFICATION	REFERENCE	PROPERTY/QUALITY	FREQUENCY	QUANTITY	UNIT	ESTIMATED NUMBER OF TESTS	ESTIMATED NUMBER OF DAYS	NOTES
Embankment	205.06	Density	1/20000 CY	342000	CY	17.1	17	
Subgrade	301.04	Density	1/1500 FT	6423	FT	4.282	4	
Modified Soil	302.09	Density	1/1500 FT	6423	FT	4.282	4	
Concrete Pavement	1020.04	Slump	1/500 FT	6423	FT	12.846	30	Assumed inspector would be present for every day of paving
Concrete Pavement	1020.04	Air	1/250 FT	6423	FT	25.692		
Concrete Pavement	1020.04	Strength	2 / Day	30	DAY	30		
Concrete Bridge	1020.04	Air	1 / LOAD	90	LOADS	90	40	Assumed inspector would be present for every day of paving
Concrete Bridge	1020.04	Slump	1/50 CY	800	CY	16		
Concrete Bridge	1020.04	Strength	2 / POUR	40	POURS	80		
Misc. Concrete	1020.04	Air	1/100 CY	750	CY	7.5	8	
Misc. Concrete	1020.04	Slump	1/100 CY	750	CY	7.5		
Misc. Concrete	1020.04	Strength	2/100 CY	750	CY	3		
HMA	1030.05	Density	1/4 Mile	1.2	MILES	4.8	5	
Backfill of Culverts	205.06	Density	1/Location	15	LOCATION	30	15	
						Total Estimated Days	123	



2014 STANDARD FEE SCHEDULE CONSTRUCTION TESTING AND ENGINEERING FEES

FIELD TESTING SERVICES

Technical services for on-site monitoring and testing of construction materials, including concrete placement, field density testing for soil compaction, spread footing inspection, pile inspection, caisson inspection, asphalt placement, asphalt and concrete batch plant inspection, structural steel bolting, visual welding inspection, and roofing inspection.

Engineering Technician	\$ 40.00 Per Hour	Nuclear Density Gauge	\$ 40.00 Per Day
Senior Engineering, Technician	\$ 45.00 Per Hour	Concrete Coring Machine	\$ 75.00 Per Day
Field Engineer or Geologist	\$ 90.00 Per Hour	Floor Flatness Meter	\$100.00 Per Day
Certified Welding Inspector (CWI)	\$ 90.00 Per Hour	Maturity Meter	\$100.00 Per Day

ENGINEERING SERVICES

Engineering services for on-site monitoring and evaluation, construction materials testing, job site meetings, report preparation and review, and consultation.

Staff Engineer or Geologist	\$ 70.00 Hour	Principal Engineer	\$ 125.00 Hour
Project Engineer	\$ 90.00 Hour		

LABORATORY TESTING SERVICES

Concrete Cylinder Compression Test	\$ 12.00 Each	Moisture Density Relationship:	
Concrete Beam Flexural Test	\$ 20.00 Each	Standard Proctor	\$ 125.00 Each
Mortar Cube Compression Test	\$ 12.00 Each	Modified Proctor	\$ 145.00 Each
Grain size - Dry Sieve Analysis	\$ 75.00 Each	CE-55 Corps of Engineers	\$ 155.00 Each
Grain size - Wash Test	\$ 40.00 Each	One Point Confirmation Test	\$ 50.00 Each
Grain size - Hydrometer	\$ 75.00 Each	Permeability, Falling Head	\$ 250.00 Each
Aggregate Spec. Gravity, Adsorption		Remold Permeability Samples	\$ 30.00 Each
Fine Aggregate	\$ 60.00 Each	Asphalt Extraction/Gradation	\$ 125.00 Each
Coarse Aggregate	\$ 40.00 Each	Asphalt Core Density	\$ 20.00 Each
Magnesium Sulfate Soundness	\$ 450.00 Each	Proportion and Preparation	
Aggregate Unit Weight	\$ 30.00 Each	of Concrete Mix Design	\$ 325.00 Each
California Bearing Ratio	\$ 250.00 Each	Concrete Cylinder Molds	\$ 2.50 Each
Atterberg Limits	\$ 50.00 Each	Maturity Meter Sensors	\$ 50.00 Each
Organic Content (Loss on Ignition)	\$ 35.00 Each		

REMARKS - Personnel charges will be based on a portal-to-portal basis; a minimum charge of 4 hours will apply for all Field Testing Services. A transportation charge of \$0.50 per mile will be added for travel to and from the site, and other job related travel for project locations outside of Champaign-Urbana. An overtime multiplier of 1.5 will be used for services performed on Saturday, Sunday or holidays; for work scheduled outside the hours of 7:00 a.m. to 5:00 p.m.; or for more than eight (8) hours per day. Services and fees not listed will be quoted upon request. The above prices include up to four (4) copies of the report distributed as requested. Payment for invoices will be due within 15 days of receipt of invoice. Interest will be added at a rate of 1 1/2% per month of delinquency. Proposal estimates and verbal quotations will remain valid for 60 days, at which time they may be subject to change or withdrawal.

Midwest Engineering and Testing, Inc. Payroll Rates May 1, 2014

Title	Name	Hourly Rate
Principal Engineer	Daniel E. Tappendorf	\$ 72.12
Project Engineer	Robert W. Hahn	\$ 38.50
Project Engineer	Jeff Olson	\$ 27.64
Senior Engineering Technician	Zach Wilcoxon	\$ 17.00
Senior Engineering Technician	Joe Bartholomew	\$ 16.75
Senior Engineering Technician	Pat Walsh	\$ 15.25
Senior Engineering Technician	Charles Day	\$ 15.00

**PAYROLL ESCALATION TABLE
FIXED RAISES**

FIRM NAME ESI Consultants. Ltd.
PRIME/SUPPLEMENT _____

DATE 05/13/14
PTB NO. _____

CONTRACT TERM 24 MONTHS
START DATE 7/1/2014
RAISE DATE 4/1/2015

OVERHEAD RATE 138.27%
COMPLEXITY FACTOR 0
% OF RAISE 4.00%

ESCALATION PER YEAR

7/1/2014 - 4/1/2015
9
24

4/2/2015 - 4/1/2016
12
24

4/2/2016 - 7/1/2016
3
24

= 37.50%
= 1.0302

52.00%

13.52%

The total escalation for this project would be:

3.02%

PAYROLL RATES

FIRM NAME ESI Consultants. Ltd. DATE 05/13/14
 PRIME/SUPPLEMENT _____
 PSB NO. _____

ESCALATION FACTOR 3.02%

CLASSIFICATION	CURRENT RATE	CALCULATED RATE
President/Principal	\$70.00	\$72.11
Vice President/Director	\$70.00	\$72.11
Senior Manager	\$62.00	\$63.87
Senior Consultant	\$57.35	\$59.08
Senior Project Manager	\$59.60	\$61.40
Project Manager	\$46.70	\$48.11
Project Manager Consultant	\$46.42	\$47.82
Senior Resident Engineer	\$44.04	\$45.37
Structural Project Manager	\$51.74	\$53.30
Senior Structural Proj Engr	\$44.00	\$45.33
Proj Engr 2/Res Engr 2	\$39.33	\$40.52
Proj Engr/Res Engr 1	\$32.97	\$33.97
Engineer 3	\$32.00	\$32.97
Engineer 2	\$29.40	\$30.29
Engineer 1	\$28.00	\$28.85
HR Manager	\$35.00	\$36.06
Senior Technician 2	\$40.80	\$42.03
Resident Tech/Senior Tech	\$30.81	\$31.74
Technician 3	\$30.00	\$30.91
Technician 2	\$20.80	\$21.43
Technician 1/Intern	\$14.00	\$14.42
Senior Admin Mgr Consult	\$43.84	\$45.16
Admin Assoc 3	\$22.56	\$23.24
Admin Assoc 2	\$20.02	\$20.62
Admin Assoc 1	\$16.00	

COST PLUS FIXED FEE COST ESTIMATE OF CONSULTANT SERVICES

DF-824-039
REV 12/04
05/13/14

FIRM ESI Consultants. Ltd.
PSB _____
PRIME/SUPPLEMENT _____

OVERHEAD RATE 1.3827
COMPLEXITY FACTOR 0

DATE

DBE DROP BOX	ITEM	MANHOURS (A)	PAYROLL (B)	OVERHEAD & FRINGE BENF (C)	IN-HOUSE DIRECT COSTS (D)	FIXED FEE (E)	Outside Direct Costs (F)	SERVICES BY OTHERS (G)	DBE TOTAL (H)	TOTAL (B-G)	% OF GRAND TOTAL
	Construction Observation	5700	218,095.81	301,561.08	68,350.00	80,695.45				668,702.34	100.00%
	Subconsultant DL					0.00				0.00	0.00%
	TOTALS	5700	218,095.81	301,561.08	68,350.00	80,695.45	0.00	0.00	0.00	668,702.34	100.00%

DBE 0.00%

DBE

AVERAGE HOURLY PROJECT RATES

FIRM ESI Consultants. Ltd.
PSB _____
PRIME/SUPPLEMENT _____

DATE 05/13/14

SHEET 1 OF 5

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJECT RATES			Construction Observation											
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
President/Principal	72.11	0														
Vice President/Direct	72.11	100	1.75%	1.27	100	1.75%	1.27									
Senior Manager	63.87	0														
Senior Consultant	59.08	0														
Senior Project Manag	61.40	0														
Project Manager	48.11	0														
Project Manager Con	47.82	0														
Senior Resident Engi	45.37	3000	52.63%	23.88	3000	52.63%	23.88									
Structural Project Ma	53.30	0														
Senior Structural Pro	45.33	0														
Proj Engr 2/Res Engi	40.52	0														
Proj Engr/Res Engr 1	33.97	0														
Engineer 3	32.97	0														
Engineer 2	30.29	0														
Engineer 1	28.85	2560	44.91%	12.96	2560	44.91%	12.96									
HR Manager	36.06	0														
Senior Technician 2	42.03	0														
Resident Tech/Senio	31.74	0														
Technician 3	30.91	0														
Technician 2	21.43	0														
Technician 1/Intern	14.42	0														
Senior Admin Mgr Cd	45.16	0														
Admin Assoc 3	23.24	40	0.70%	0.16	40	0.70%	0.16									
Admin Assoc 2	20.62	0														
Admin Assoc 1		0														
		0														
		0														
TOTALS		5700	100%	\$38.26	5700	100.00%	\$38.26	0	0%	\$0.00	0	0%	\$0.00	0	0%	\$0.00

ESI Consultants Ltd.
Hourly Rates

Employee Name	Title	Hourly Rate
Dan White	Senior Resident Engine	\$ 44.04
Russ Walker	Engineer 2	\$ 27.00
Derek Scott	Technician 2	\$ 20.80
Dave Clark	Vice President	\$ 67.00