

# REQUEST FOR LEGISLATIVE ACTION


Completed by County Counselor's Office:

Res/Ord No.: **18618**

Sponsor(s): **Bob Spence**

Date: **September 29, 2014**

SUBJECT	Action Requested  <input checked="" type="checkbox"/> Resolution <input type="checkbox"/> Ordinance  Project/Title: Approve an Agreement with Burns and McDonnell Engineering for the design of Browning Road Bridge Replacement County Project #3046										
BUDGET INFORMATION <i>To be completed By Requesting Department and Finance</i>	<table border="1" data-bbox="332 535 1209 756"> <tr> <td>Amount authorized by this legislation this fiscal year:</td> <td>\$98,381.56</td> </tr> <tr> <td>Amount previously authorized:</td> <td>\$0.00</td> </tr> <tr> <td>Total amount authorized after this legislative action:</td> <td>\$98,381.56</td> </tr> <tr> <td>Amount budgeted for this item * (including transfers):</td> <td>\$100,000.00</td> </tr> <tr> <td>Source of funding (name of fund) and account code number; FROM / TO</td> <td>FROM ACCT: 004-1507-58040</td> </tr> </table> <p>* If account includes additional funds for other expenses, total budgeted in the account is: NA</p> <p>OTHER FINANCIAL INFORMATION:</p> <p><input type="checkbox"/> No budget impact (no fiscal note required)</p> <p><input type="checkbox"/> Term and Supply Contract (funds approved in the annual budget): estimated value and use of contract:                  Department: Estimated Use: \$</p> <p>Prior Year Budget (if applicable): N/A                  Prior Year Actual Amount Spent (if applicable): N/A</p>	Amount authorized by this legislation this fiscal year:	\$98,381.56	Amount previously authorized:	\$0.00	Total amount authorized after this legislative action:	\$98,381.56	Amount budgeted for this item * (including transfers):	\$100,000.00	Source of funding (name of fund) and account code number; FROM / TO	FROM ACCT: 004-1507-58040
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PRIOR LEGISLATION	Prior ordinances and (date): <u>O4628, dated 6-23-14</u>  Prior resolutions and (date):										
CONTACT INFORMATION	RLA drafted by: Glen Dvorak, Public Works Project Manager, 816-881-4499 (office), 816-769-4184 (cell)										
REQUEST SUMMARY	Browning Low Water Crossing, located about 1/4 miles west of Smart Road, is eligible for replacement in the Off System Bridge Program (BRO). This program provides for 80% funding on eligible costs for the project. The Local Entity is responsible for the 20% match. On this contract the County will front the full amount and get the 80% back in reimbursements. This structure is made up of 6 small reinforced concrete pipes with a concrete driving surface. It allows for low flows to pass through the pipes but a heavier flow will overflow the roadway forcing a road closure. A new structure will be designed that meets all current standards as required by the Grant Conditions.  MoDot has pre-qualified Engineering Consultants to design BRO projects. The Public Works Department selected 3 firms from the Modot prequalified list, gave them a project related questionnaire, then selected one based on the answers to those questions. MoDot has approved the Engineer selection and fee. We request that a resolution be prepared authorizing the County Executive to enter into an agreement with Burns and McDonnell Engineering for the design of a new bridge on Browning road.										
CLEARANCE	<input type="checkbox"/> Tax Clearance Completed (Purchasing & Department) <input type="checkbox"/> Business License Verified (Purchasing & Department) <input type="checkbox"/> Chapter 6 Compliance - Affirmative Action/Prevailing Wage (County Auditor's Office)										
ATTACHMENTS	Modot letter approving Engineer, Engineering Agreement, Location map, picture of existing structure.										
REVIEW	Department Director: Earl Newill <span style="float: right;">Date: 9/19/2014</span>										

Earl Newill		
Finance (Budget Approval): <i>If applicable</i>	Alan Ball	Date: 9-22-14
Division Manager:		Date: 9/25/14
County Counselor's Office:		Date:

Fiscal Information (to be verified by Budget Office in Finance Department)

- This expenditure was included in the annual budget.
- Funds for this were encumbered from the \_\_\_\_\_ Fund in \_\_\_\_.
- There is a balance otherwise unencumbered to the credit of the appropriation to which the expenditure is chargeable and there is a cash balance otherwise unencumbered in the treasury to the credit of the fund from which payment is to be made each sufficient to provide for the obligation herein authorized.
- Funds sufficient for this expenditure will be/were appropriated by Ordinance #
- Funds sufficient for this appropriation are available from the source indicated below.

Account Number:	Account Title:	Amount Not to Exceed:

- This award is made on a need basis and does not obligate Jackson County to pay any specific amount. The availability of funds for specific purchases will, of necessity, be determined as each using agency places its order.
- This legislative action does not impact the County financially and does not require Finance/Budget approval.



**Missouri Department of Transportation**

600 Northeast Colbern Rd.  
816.622.6500  
Fax: 816.622.6550  
1.888.ASK MODOT (275.6636)  
Lee's Summit, Missouri 64086

September 2, 2014

**Res. 18618**

Glen Dvorak  
Project Manager  
303 W Walnut  
Independence, Missouri 64050

RE: BRO-NBIL-B048 (54) Browning Road Bridge

Dear Mr. Dvorak:

The Engineering Services Contract for BRO-NBIL-B048 (54) has passed our review and is good to proceed with execution. Please note this is not a notice to proceed with design work. That will be given after I receive an executed copy of the ESC and obligation approval from central office.

If I can be of further assistance, please contact me at (816) 607-2255.

Sincerely,



Eva Steinman  
Transportation Planner

Attachments



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*Our mission is to provide a world-class transportation experience that delights our customers and promotes a prosperous Missouri.*

[www.modot.org](http://www.modot.org)

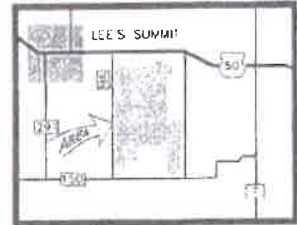
Res. 18618



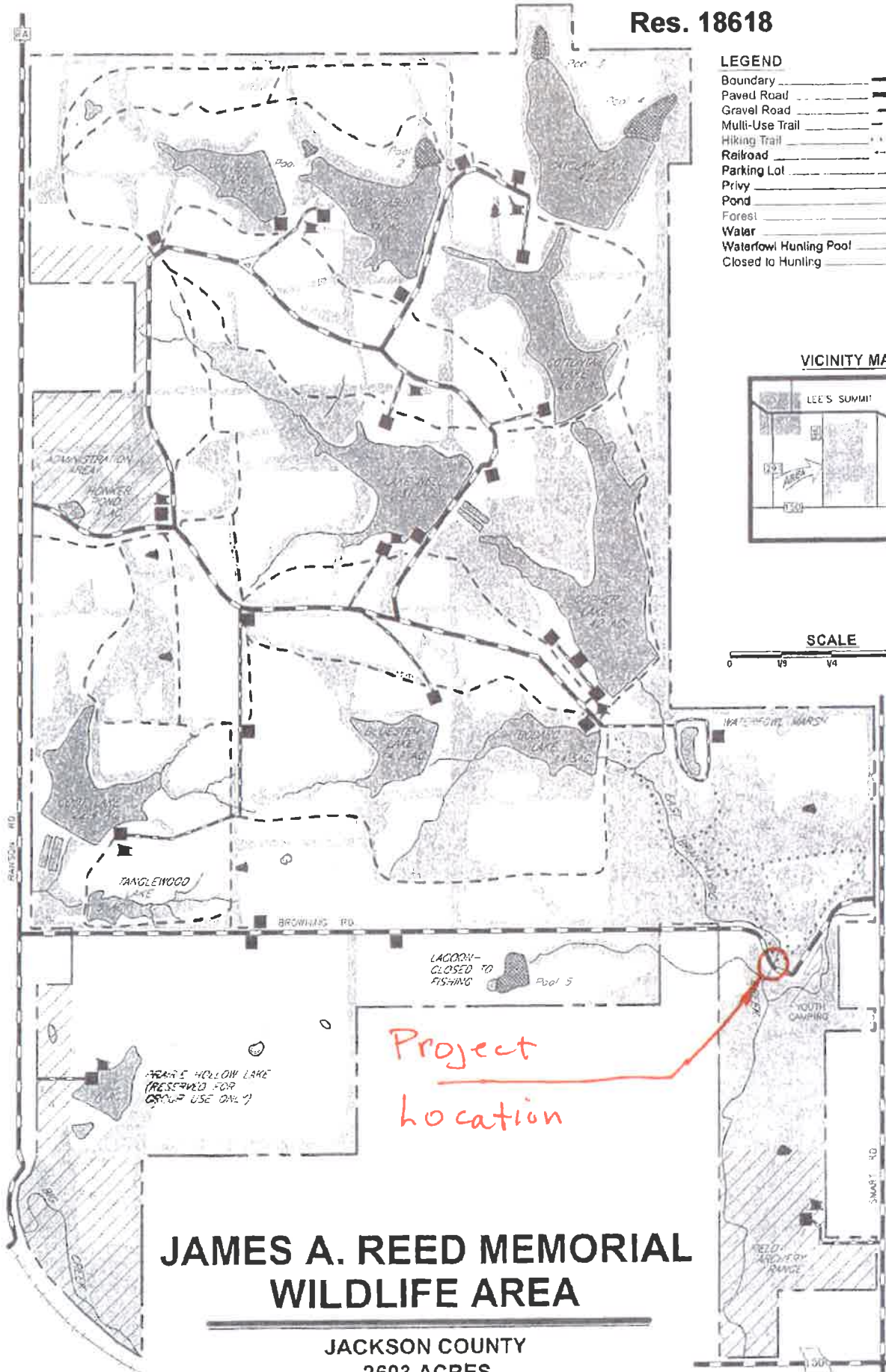
LEGEND

Boundary	-----
Paved Road	=====
Gravel Road	-----
Multi-Use Trail	-----
Hiking Trail	-----
Railroad	-----
Parking Lot	■
Privy	■
Pond	■
Forest	▨
Water	▨
Waterfowl Hunting Pool	▨
Closed to Hunting	▨

VICINITY MAP



SCALE



# JAMES A. REED MEMORIAL WILDLIFE AREA

JACKSON COUNTY  
2603 ACRES



**SPONSOR:** Jackson County, Missouri  
**LOCATION:** Browning Road over the East Branch of Wilson Creek  
**PROJECT:** BRO-NBIL B048(54) / New Bridge

**Res. 18618**

*THIS CONTRACT* is between Jackson County, Missouri, hereinafter referred to as the "Local Agency", and Burns & McDonnell Engineering Company, Inc., 9400 Ward Parkway, Kansas City, Missouri 64114 hereinafter referred to as the "Engineer".

*INASMUCH* as funds have been made available by the Federal Highway Administration through its Off-System Bridge Replacement and Rehabilitation Program, coordinated through the Missouri Department of Transportation, the Local Agency intends to construct the above project and requires professional engineering services. The Engineer will provide the Local Agency with professional services hereinafter detailed for the planning, design and construction inspection of the desired improvements and the Local Agency will pay the Engineer as provided in this contract. It is mutually agreed as follows:

**ARTICLE I – SCOPE OF SERVICES**

The scope of services to be provided by the Engineer are set forth in Attachment A to this Agreement, titled "Scope of Services" which is attached hereto and made a part of this Agreement.

**ARTICLE II - DISADVANTAGED BUSINESS ENTERPRISE (DBE) REQUIREMENTS:**

- A. DBE Goal: The following DBE goal has been established for this Agreement. The dollar value of services and related equipment, supplies, and materials used in furtherance thereof which is credited toward this goal will be based on the amount actually paid to DBE firms. The goal for the percentage of services to be awarded to DBE firms is 13.49% of the total Agreement dollar value.
- B. DBE Participation Obtained by Engineer: The Engineer has obtained DBE participation, and agrees to use DBE firms to complete, 13.62% of the total services to be performed under this Agreement, by dollar value. The DBE firms which the Engineer shall use, and the type and dollar value of the services each DBE will perform, is as follows:

DBE FIRM NAME, STREET AND COMPLETE MAILING ADDRESS	TYPE OF DBE SERVICE	TOTAL \$ VALUE OF THE DBE SUBCONTRACT	CONTRACT \$ AMOUNT TO APPLY TO TOTAL DBE GOAL	PERCENTAGE OF SUBCONTRACT DOLLAR VALUE APPLICABLE TO TOTAL GOAL
TSI Engineering, Inc. 1322 Adams Street Kansas City, MO 66103	Geotechnical	\$13,400.00	\$13,400.00	13.62%

### **ARTICLE III-ADDITIONAL SERVICES**

The Local Agency reserves the right to request additional work, and changed or unforeseen conditions may require changes and work beyond the scope of this contract. In this event, a supplement to this agreement shall be executed and submitted for the approval of MoDOT prior to performing the additional or changed work or incurring any additional cost thereof. Any change in compensation will be covered in the supplement.

### **ARTICLE IV - RESPONSIBILITIES OF LOCAL AGENCY**

The Local Agency will cooperate fully with the Engineer in the development of the project, including the following:

- A. make available all information pertaining to the project which may be in the possession of the Local Agency;
- B. provide the Engineer with the Local Agency's requirements for the project;
- C. make provisions for the Engineer to enter upon property at the project site for the performance of his duties;
- D. examine all studies and layouts developed by the Engineer, obtain reviews by MoDOT, and render decisions thereon in a prompt manner so as not to delay the Engineer;
- E. designate a Local Agency's employee to act as Local Agency's Person in Responsible Charge under this contract, such person shall have authority to transmit instructions, interpret the Local Agency's policies and render decisions with respect to matters covered by this agreement (see EPG 136.3);

### **ARTICLE V - PERIOD OF SERVICE**

The Engineer will commence work within two weeks after receiving notice to proceed from the Local Agency. The general phases of work will be completed in accordance with the following schedule:

- A. PS&E Approval by MODOT shall be completed on or before December 31, 2015.
- B. Construction Phase shall be completed 60 days after construction final completion schedule.

The Local Agency will grant time extensions for delays due to unforeseeable causes beyond the control of and without fault or negligence of the Engineer. Requests for extensions of time shall be made in writing by the Engineer, before that phase of work is scheduled to be completed, stating fully the events giving rise to the request and justification for the time extension requested.



## ARTICLE VI – STANDARDS

The Engineer shall be responsible for working with the Local Agency in determining the appropriate design parameters and construction specifications for the project using good engineering judgment based on the specific site conditions, Local Agency needs, and guidance provided in the most current version of EPG 136 LPA Policy. If the project is on the state highway system or is a bridge project, then the latest version of MoDOT's Engineering Policy Guide (EPG) and Missouri Standard Specifications for Highway Construction shall be used (see EPG 136.7). The project plans must also be in compliance with the latest ADA (Americans with Disabilities Act) Regulations.

## ARTICLE VII - COMPENSATION

For services provided under this contract, the Local Agency will compensate the Engineer as follows:

- A. For design services, including work through the construction contract award stage, the Local Agency will pay the Engineer the actual costs incurred plus a predetermined fixed fee of \$8,029.41, with a ceiling established for said design services in the amount of \$88,361.83, which amount shall not be exceeded.
- B. For construction phase services, the Local Agency will pay the Engineer the actual costs incurred plus a predetermined fixed fee of \$1,260.97, with a ceiling established for said construction phase services in the amount of \$10,019.73, which amount shall not be exceeded.
- C. The compensation outlined above has been derived from estimates of cost which are detailed in Attachment B. Any major changes in work, extra work, exceeding of the contract ceiling, or change in the predetermined fixed fee will require a supplement to this contract, as covered in Article III - ADDITIONAL SERVICES.
- D. Actual costs in Sections A and B above are defined as:
  1. Actual payroll salaries paid to employees for time that they are productively engaged in work covered by this contract, plus
  2. An amount estimated at 70.78% of actual salaries in Item 1 above for payroll additives, including payroll taxes, holiday and vacation pay, sick leave pay, insurance benefits, retirement and incentive pay, plus
  3. An amount estimated at 134.57% of actual salaries in Item 1 above for general administrative overhead, based on the Engineer's system for allocating indirect costs in accordance with sound accounting principles and business practice, plus
  4. Other costs directly attributable to the project but not included in the above overhead, such as vehicle mileage, meals and lodging, printing, surveying expendables, and computer time, plus

5. Project costs incurred by others on a subcontract basis, said costs to be passed through the Engineer on the basis of reasonable and actual cost as invoiced by the subcontractors.
- E. The rates shown for additives and overhead in Sections VII. D.2 and VII. D.3 above are approximate and will be used for interim billing purposes. Final payment will be based on the actual rates experienced during the period of performance, as indicated by the Engineer's accounting records, and as determined by final audit of the Engineer's records by MoDOT.
- F. The payment of costs under this contract will be limited to costs which are allowable under 23 CFR 172 and 48 CFR 31.
- G. **METHOD OF PAYMENT** - Partial payments for work satisfactorily completed will be made to the Engineer upon receipt of itemized invoices by the Local Agency. Invoices will be submitted no more frequently than once every two weeks and must be submitted monthly for invoices greater than \$10,000. A pro-rated portion of the fixed fee will be paid with each invoice. Upon receipt of the invoice and progress report, the Local Agency will, as soon as practical, but not later than 45 days from receipt, pay the Engineer for the services rendered, including the proportion of the fixed fee earned as reflected by the estimate of the portion of the services completed as shown by the progress report, less partial payments previously made. A late payment charge of one and one half percent (1.5%) per month shall be assessed for those invoiced amount not paid, through no fault of the Engineer, within 45 days after the Local Agency's receipt of the Engineer's invoice. The Local Agency will not be liable for the late payment charge on any invoice which requests payment for costs which exceed the proportion of the maximum amount payable earned as reflected by the estimate of the portion of the services completed, as shown by the progress report. The payment, other than the fixed fee, will be subject to final audit of actual expenses during the period of the Agreement.
- H. **PROPERTY ACCOUNTABILITY** - If it becomes necessary to acquire any specialized equipment for the performance of this contract, appropriate credit will be given for any residual value of said equipment after completion of usage of the equipment.

#### **ARTICLE VIII - COVENANT AGAINST CONTINGENT FEES**

The Engineer warrants that he has not employed or retained any company or person, other than a bona fide employee working for the Engineer, to solicit or secure this agreement, and that he has not paid or agreed to pay any company or person, other than a bona fide employee, 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 Local Agency shall have the right to annul this agreement without liability, or in its discretion to deduct from the contract price or consideration, or otherwise recover, the full amount of such fee, commission, percentage, brokerage fee, gift, or contingent fee, plus reasonable attorney's fees.

### **ARTICLE IX - SUBLETTING, ASSIGNMENT OR TRANSFER**

No portion of the work covered by this contract, except as provided herein, shall be sublet or transferred without the written consent of the Local Agency. The subletting of the work shall in no way relieve the Engineer of his primary responsibility for the quality and performance of the work. It is the intention of the Engineer to engage subcontractors for the purposes of:

<b>Sub-Consultant Name</b>	<b>Address</b>	<b>Services</b>
McLaughlin Mueller, Inc.	218 West Mill Street Liberty, MO 64068	Surveying and right of way descriptions

### **ARTICLE X - PROFESSIONAL ENDORSEMENT**

All plans, specifications and other documents shall be endorsed by the Engineer and shall reflect the name and seal of the Professional Engineer endorsing the work. By signing and sealing the PS&E submittals the Engineer of Record will be representing to MoDOT that the design is meeting the intent of the federal aid programs.

### **ARTICLE XI - RETENTION OF RECORDS**

The Engineer shall maintain all records, survey notes, design documents, cost and accounting records, construction records and other records pertaining to this contract and to the project covered by this contract, for a period of not less than three years following final payment by FHWA. Said records shall be made available for inspection by authorized representatives of the Local Agency, MoDOT or the federal government during regular working hours at the Engineer's place of business.

### **ARTICLE XII - OWNERSHIP OF DOCUMENTS**

Plans, tracings, maps and specifications prepared under this contract shall be delivered to and become the property of the Local Agency upon termination or completion of work. Basic survey notes, design computations and other data prepared under this contract shall be made available to the Local Agency upon request. All such information produced under this contract shall be available for use by the Local Agency without restriction or limitation on its use. If the Local Agency incorporates any portion of the work into a project other than that for which it was performed, the Local Agency shall save the Engineer harmless from any claims and liabilities resulting from such use.

### **ARTICLE XIII – SUSPENSION OR TERMINATION OF AGREEMENT**

- A. The Local Agency may, without being in breach hereof, suspend or terminate the Engineer's services under this Agreement, or any part of them, for cause or for the convenience of the Local Agency, upon giving to the Engineer at least fifteen (15) days' prior written notice of the effective date thereof. The Engineer shall not accelerate performance of services during

the fifteen (15) day period without the express written request of the Local Agency.

- B. Should the Agreement be suspended or terminated for the convenience of the Local Agency, the Local Agency will pay to the Engineer its costs as set forth in Attachment B including actual hours expended prior to such suspension or termination and direct costs as defined in this Agreement for services performed by the Engineer, a proportional amount of the fixed fee based upon an estimated percentage of Agreement completion, plus reasonable costs incurred by the Engineer in suspending or terminating the services. The payment will make no other allowances for damages or anticipated fees or profits. In the event of a suspension of the services, the Engineer's compensation and schedule for performance of services hereunder shall be equitably adjusted upon resumption of performance of the services.
- C. The Engineer shall remain liable to the Local Agency for any claims or damages occasioned by any failure, default, or negligent errors and/or omission in carrying out the provisions of this Agreement during its life, including those giving rise to a termination for non-performance or breach by Engineer. This liability shall survive and shall not be waived, or estopped by final payment under this Agreement.
- D. The Engineer shall not be liable for any errors or omissions contained in deliverables which are incomplete as a result of a suspension or termination where the Engineer is deprived of the opportunity to complete the Engineer's services.
- E. Upon the occurrence of any of the following events, the Engineer may suspend performance hereunder by giving the Local Agency 30 days advance written notice and may continue such suspension until the condition is satisfactorily remedied by the Local Agency. In the event the condition is not remedied within 120 days of the Engineer's original notice, the Engineer may terminate this agreement.
  - 1. Receipt of written notice from the Local Agency that funds are no longer available to continue performance.
  - 2. The Local Agency's persistent failure to make payment to the Engineer in a timely manner.
  - 3. Any material contract breach by the Local Agency.

#### **ARTICLE XIV - DECISIONS UNDER THIS CONTRACT**

The Local Agency will determine the acceptability of work performed under this contract, and will decide all questions which may arise concerning the project. The Local Agency's decision shall be final and conclusive.

#### **ARTICLE XV - SUCCESSORS AND ASSIGNS**

The Local Agency and the Engineer agree that this contract and all contracts entered into under the provisions of this contract shall be binding upon the parties hereto and their successors and assigns.

#### **ARTICLE XVI - COMPLIANCE WITH LAWS**

The Engineer shall comply with all federal, state, and local laws, ordinances, and regulations applicable to the work, including Title VII of the Civil Rights Act of 1964 and non-discrimination clauses incorporated herein, and shall procure all licenses and permits necessary for the fulfillment of obligations under this contract.

#### **ARTICLE XVII - RESPONSIBILITY FOR CLAIMS AND LIABILITY**

The Engineer agrees to save harmless the Local Agency, MoDOT and FHWA from all claims and liability due to his negligent acts or the negligent acts of his employees, agents or subcontractors.

#### **ARTICLE XVIII - NONDISCRIMINATION**

The Engineer, with regard to the work performed by it after award and prior to completion of the contract work, will not discriminate on the ground of race, color or national origin in the selection and retention of subcontractors. The Engineer will comply with Title VII of the Civil Rights Act of 1964, as amended. More specifically, the Engineer will comply with the regulations of the Department of Transportation relative to nondiscrimination in federally assisted programs of the Department of Transportation, as contained in 49 CFR 21 through Appendix H and 23 CFR 710.405 which are herein incorporated by reference and made a part of this contract. In all solicitations either by competitive bidding or negotiation made by the Engineer for work to be performed under a subcontract, including procurements of materials or equipment, each potential subcontractor or supplier shall be notified by the Engineer's obligations under this contract and the regulations relative to non-discrimination on the ground of color, race or national origin.

#### **ARTICLE XIX – LOBBY CERTIFICATION**

**CERTIFICATION ON LOBBYING:** Since federal funds are being used for this agreement, the Engineer's signature on this agreement constitutes the execution of all certifications on lobbying which are required by 49 C.F.R. Part 20 including Appendix A and B to Part 20. Engineer agrees to abide by all certification or disclosure requirements in 49 C.F.R. Part 20 which are incorporated herein by reference.

#### **ARTICLE XX – INSURANCE**

- A. The Engineer shall maintain commercial general liability, automobile liability, and worker's compensation and employer's liability insurance in full force and effect to protect the Engineer from claims under Worker's Compensation Acts, claims for damages for personal injury or death, and for damages to property arising from the negligent acts, errors, or omissions of the Engineer and its employees, agents, and Subconsultants in the performance

of the services covered by this Agreement, including, without limitation, risks insured against in commercial general liability policies.

- B. The Engineer shall also maintain professional liability insurance to protect the Engineer against the negligent acts, errors, or omissions of the Engineer and those for whom it is legally responsible, arising out of the performance of professional services under this Agreement.
- C. The Engineer's insurance coverage shall be for not less than the following limits of liability:
  - 1. Commercial General Liability: \$500,000 per person up to \$3,000,000 per occurrence;
  - 2. Automobile Liability: \$500,000 per person up to \$3,000,000 per occurrence;
  - 3. Worker's Compensation in accordance with the statutory limits; and Employer's Liability: \$1,000,000; and
  - 4. Professional ("Errors and Omissions") Liability: \$1,000,000, each claim and in the annual aggregate.
- D. The Engineer shall, upon request at any time, provide the Local Agency with certificates of insurance evidencing the Engineer's commercial general or professional liability ("Errors and Omissions") policies and evidencing that they and all other required insurance are in effect as to the services under this Agreement.
- E. Any insurance policy required as specified in (ARTICLE XX) shall be written by a company which is incorporated in the United States of America or is based in the United States of America. Each insurance policy must be issued by a company authorized to issue such insurance in the State of Missouri.

## **ARTICLE XXI - ATTACHMENTS**

The following exhibits are attached hereto and are hereby made part of this contract:

Attachment A – Scope of Service

Attachment B - Estimate of Cost

Attachment C - Breakdown of Overhead Rates

Attachment D - Certification Regarding Debarment, Suspension, and Other  
Responsibility Matters - Primary Covered Transactions.

Attachment E - Certification Regarding Debarment, Suspension, and Other  
Responsibility Matters - Lower Tier Covered Transactions.

Attachment F – DBE Contract Provisions

Attachment G – Fig. 136.4.15 Conflict of Interest Disclosure Form

Executed by the Engineer this \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

Executed by the County/City this \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

**FOR: JACKSON COUNTY, MISSOURI**  
County Commission

APPROVED AS TO FORM

BY: \_\_\_\_\_  
County Executive

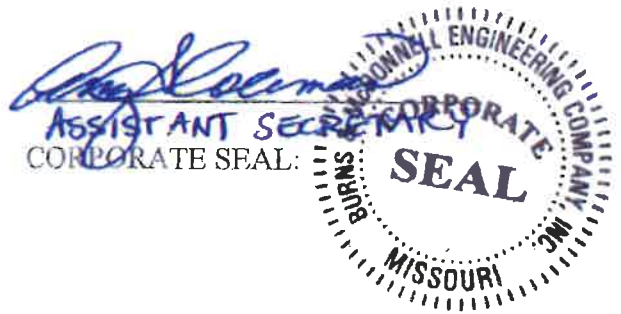
\_\_\_\_\_  
County Counselor

ATTEST: \_\_\_\_\_  
County Clerk

**FOR: BURNS & McDONNELL ENGINEERING  
COMPANY, INC.**

ATTEST:

BY: *Benjamin J. Biller*  
Benjamin J. Biller, P.E., Vice President



I hereby certify that there is a balance otherwise unencumbered to the credit of the appropriation to which this contract is chargeable, and a cash balance otherwise unencumbered in the treasury from which payment is to be made, each sufficient to meet the obligation of \$98,382.00 which is hereby authorized.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Director of Finance and Purchasing  
Account No. 004-1507-58040



**ATTACHMENT A**

**Scope of Services**

**A. DESIGN PHASE - The Engineer will:**

1. determine the needs of the Local Agency for the project;
2. conduct topographic, property and utility surveys sufficient to develop plans for the project;
3. arrange for subsurface investigations if needed;
4. conduct hydraulic studies, consider alternative designs and opinions of probable cost, develop preliminary plans, and recommend to the Local Agency the best overall general design in its opinion;
5. submit preliminary plans for review by the Local Agency and the Missouri Department of Transportation (MoDOT);
6. prepare detailed construction plans, opinion of probable cost, specifications and related documents as necessary for the purpose of soliciting bids for constructing the project. If approved before hand, provisions will be made in the contract documents for that portion of the work that will be performed by Local Agency's forces;
7. secure adequate property title information, determine right-of-way requirements, prepare right-of-way plans, prepare legal descriptions, perform appraisals and appraisal review, negotiate with property owners, coordinate with Local Agency and otherwise provide all services in connection with acquiring all right-of-way needed to construct this project;
8. obtain environmental clearance permit pertaining to water quality by coordinating with the Missouri Department of Natural Resources and the U.S. Army Corps of Engineers;
9. obtain historic preservation clearance by coordinating with the Missouri Department of Natural Resources. If deemed necessary, arrange to have the site examined by a qualified archaeologist on a subcontract basis as an additional cost;
10. consult with the Missouri Department of Conservation and the U.S. Fish and Wildlife Service through the Natural Heritage Review website for the presence of endangered species;
11. check for the presence of asbestos and lead paint concerning removal of the existing structure and confer with NRCS regarding conversion of farmland; and

12. coordinate with Missouri Department of Conservation and other agencies as necessary for impacts and/or easements required within the James A. Reed Wildlife Area; and
  13. provide the Local Agency and MoDOT each with one set of completed plans, specifications and opinion of probable cost for the purpose of obtaining construction authorization from the Missouri Department of Transportation.
- B. **BIDDING PHASE** - The Engineer will:
1. upon receipt of construction authorization from MoDOT, make final corrections resulting from reviews by agencies involved, and provide an adequate number of plans, specifications, and bid documents to the Local Agency;
  2. assist the Local Agency in advertising for bids; and
  3. assist the Local Agency in evaluating bids and requesting concurrence in award from MoDOT;
- C. **CONSTRUCTION PHASE** - Engineer's services will include the following:
1. assist the Local Agency with a preconstruction conference to discuss project details with the Contractor;
  2. answer field questions and plan clarifications, as needed;
  3. check shop drawings and review material certifications;
  4. prepare as-built plans.

**ATTACHMENT B**

**ESTIMATE OF COST**

**DESIGN & BIDDING PHASE**

	Hours	Rate	Cost
<i>Preliminary Design (Labor Costs Salary Only)</i>			
Project Manager	16	\$58.00	\$928.00
Transportation Engineer	6	45.00	270.00
Senior Bridge Engineer	58	50.00	2,900.00
Engineer	48	35.00	1,680.00
Right of Way Specialist	32	40.00	1,280.00
CADD Technician	37	35.00	1,295.00
Administrative Support	4	25.00	100.00
<i>Final Design (Labor Costs Salary Only)</i>			
Project Manager	14	\$58.00	\$812.00
Transportation Engineer	14	45.00	630.00
Senior Bridge Engineer	62	50.00	3,100.00
Engineer	77	35.00	2,695.00
Right of Way Specialist	0	0.00	0.00
CADD Technician	67	35.00	2,345.00
Administrative Support	4	25.00	100.00
<b>SUBTOTAL</b>			<b>\$18,135.00</b>
<i>Payroll Overhead (est. at 70.78% x SUBTOTAL)</i>			\$12,835.95
<i>General and Administrative Overhead (est. at 134.57% x SUBTOTAL)</i>			\$24,404.27
<b>TOTAL LABOR &amp; OVERHEAD</b>			<b>\$55,375.22</b>
<i>Fixed Fee (14.5% x TOTAL LABOR &amp; OVERHEAD)</i>			\$8,029.41
<b>TOTAL LABOR, OVERHEAD &amp; FIXED FEE</b>			<b>\$63,404.63</b>
<i>Other Direct Costs</i>			
Travel, 3 trips at 40 miles x \$0.56 IRS Rate			\$67.20
Plotting			\$170.00
Reproduction/Printing			\$2,500.00
Equipment Charges			\$200.00

*Subcontract Costs*

McLaughlin Mueller, Inc. (non DBE)	\$8,620.00
TSi Engineering (DBE)	<u>\$13,400.00</u>
<b>SUBTOTAL DIRECT COSTS</b>	<b>\$24,957.20</b>
<b>TOTAL FOR DESIGN &amp; BIDDING PHASE</b>	<b>\$88,361.83</b>

**ATTACHMENT B (Continued)**

**ESTIMATE OF COST**

**CONSTRUCTION PHASE**

Labor Costs (Salary Only)	Hours	Rate	Cost
Project Manager	6	\$58.00	\$348.00
Senior Bridge Engineer	22	50.00	1,100.00
Engineer	24	35.00	840.00
CADD Technician	16	35.00	<u>560.00</u>
<b>SUBTOTAL</b>			<b>\$2,848.00</b>
<i>Payroll Overhead (est. at 70.78% x SUBTOTAL)</i>			<b>\$2,015.81</b>
<i>General and Administrative Overhead (est. at 134.57% x SUBTOTAL)</i>			<b>\$3,832.55</b>
<b>TOTAL LABOR &amp; OVERHEAD</b>			<b>\$8,696.36</b>
<i>Fixed Fee (14.5% x TOTAL LABOR &amp; OVERHEAD)</i>			<b>\$1,260.97</b>
<b>TOTAL LABOR, OVERHEAD &amp; FIXED FEE</b>			<b>\$9,957.33</b>
<i>Other Direct Costs</i>			
Travel, 1 trip at 40 miles x \$0.56 IRS Rate			\$22.40
Plotting			\$40.00
<b>SUBTOTAL DIRECT COSTS</b>			<b>\$62.40</b>
<b>TOTAL FOR CONSTRUCTION PHASE</b>			<b>\$10,019.73</b>

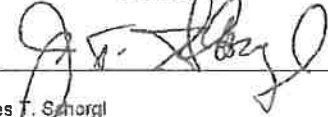
ATTACHMENT C



Burns & McDonnell Engineering Company, Inc.  
Summary of Overhead Rates PROJECTED for the Fiscal Year Ended December 31, 2014  
\*\*\*UNAUDITED\*\*\*

	Home Office	Field Office
OVERHEAD RATE CALCULATIONS — Multiple rate calculations using direct labor:		
Total salary-related overhead as a percentage of salaries	70.78 %	70.78 %
Total indirect overhead as a percentage of salaries	54.22 %	22.95 %
Total indirect overhead — contract labor allocation as a percentage of total direct labor	<u>80.35 %</u>	<u>54.31 %</u>
OVERHEAD RATE	<u>206.35 %</u>	<u>148.04 %</u>
OVERHEAD RATE — Contract labor	<u>80.35 %</u>	<u>54.31 %</u>

As of January 1, 2014, Burns & McDonnell made a fundamental change to total employee compensation. The change was implemented to more correctly align employee base salaries with current industry salaries. As a result, employee base salaries were increased and compensation realized through a year-end bonus has been reduced. In prior years, Burns & McDonnell built up rates by using the current year direct labor rates multiplied by the prior year audited overhead rate (i.e. 2013 labor rates \* 2012 audited overhead rate). With the increase in labor rates in 2014, it is no longer appropriate to use the prior year overhead rate since this overhead rate would also include the historically higher year-end bonus. Thus, Burns & McDonnell proposes to use an estimated 2014 overhead rate on FY 2014 invoices.

Signed By:   
Name: James T. Schorgl  
Title: Senior Vice President/Controller  
Date: January 29, 2014

**ATTACHMENT D**

**CERTIFICATION REGARDING DEBARMENT,  
SUSPENSION, AND OTHER RESPONSIBILITY MATTERS -  
PRIMARY COVERED TRANSACTIONS**

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**INSTRUCTIONS FOR CERTIFICATION**

1. By signing and submitting this proposal, the prospective primary participant is providing the certification set out below.
2. The inability of a person to provide the certification required below will not necessarily result in denial of participation in this covered transaction. The prospective participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective primary participant to furnish a certification or an explanation shall disqualify such person from participation in this transaction.
3. The certification in this clause is a material representation of fact upon which reliance was placed when the department or agency determined to enter into this transaction. If it is later determined that the prospective primary participant knowingly rendered an erroneous certification in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause of default.
4. The prospective primary participant shall provide immediate written notice to the department or agency to whom this proposal is submitted if at any time the prospective primary participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
5. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," "proposal" and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of the rules implementing Executive Order 12549. You may contact the department or agency to which this proposal is being submitted for assistance in obtaining a copy of those regulations.
6. The prospective primary participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.
7. The prospective primary participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-- Lower Tier Covered Transaction" provided by the department or agency entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

8. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to check the Nonprocurement List at the Excluded Parties List System.  
<https://www.epls.gov/epls/search.do?page=A&status=current&agency=69#A>.
9. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
10. Except for transactions authorized under paragraph 6 of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

**Certification Regarding Debarment, Suspension, and Other Responsibility Matters -Primary Covered Transactions**

1. The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:
  - a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
  - b. Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain or performing a public (Federal, State or local) transaction or contract under a public 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;
  - c. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (1)(b) of this certification; and
  - d. Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.
2. Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

**ATTACHMENT E**

**CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND  
VOLUNTARY EXCLUSION--LOWER TIER COVERED TRANSACTIONS**

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**INSTRUCTIONS FOR CERTIFICATION**

1. By signing and submitting this proposal, the prospective lower tier participant is providing the certification set out below.
2. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.
3. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
4. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations.
5. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.
6. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.
7. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the Nonprocurement List at the Excluded Parties List System.  
<https://www.epls.gov/epls/search.do?page=A&status=current&agency=69#A>.
8. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and



information of a participant is not required to exceed that which normally possessed by a prudent person in the ordinary course of business dealings.

9. Except for transactions authorized under paragraph 5 of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

**Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion—Lower Tier Covered Transactions**

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

**ATTACHMENT F**

**Disadvantage Business Enterprise Contract Provisions**

1. Policy: It is the policy of the U.S. Department of Transportation and the Local Agency that businesses owned by socially and economically disadvantaged individuals (DBE's) as defined in 49 C.F.R. Part 26 have the maximum opportunity to participate in the performance of contracts financed in whole or in part with federal funds. Thus, the requirements of 49 C.F.R. Part 26 and Section 1101(b) of the Transportation Equity Act for the 21st Century (TEA-21) apply to this Agreement.

2. Obligation of the Engineer to DBE's: The Engineer agrees to assure that DBEs have the maximum opportunity to participate in the performance of this Agreement and any subconsultant agreement financed in whole or in part with federal funds. In this regard the Engineer shall take all necessary and reasonable steps to assure that DBEs have the maximum opportunity to compete for and perform services. The Engineer shall not discriminate on the basis of race, color, religion, creed, disability, sex, age, or national origin in the performance of this Agreement or in the award of any subsequent subconsultant agreement.

3. Geographic Area for Solicitation of DBEs: The Engineer shall seek DBEs in the same geographic area in which the solicitation for other subconsultants is made. If the Engineer cannot meet the DBE goal using DBEs from that geographic area, the Engineer shall, as a part of the effort to meet the goal, expand the search to a reasonably wider geographic area.

4. Determination of Participation Toward Meeting the DBE Goal: DBE participation shall be counted toward meeting the goal as follows:

A. Once a firm is determined to be a certified DBE, the total dollar value of the subconsultant agreement awarded to that DBE is counted toward the DBE goal set forth above.

B. The Engineer may count toward the DBE goal a portion of the total dollar value of a subconsultant agreement with a joint venture eligible under the DBE standards, equal to the percentage of the ownership and control of the DBE partner in the joint venture.

C. The Engineer may count toward the DBE goal expenditures to DBEs who perform a commercially useful function in the completion of services required in this Agreement. A DBE is considered to perform a commercially useful function when the DBE is responsible for the execution of a distinct element of the services specified in the Agreement and the carrying out of those responsibilities by actually performing, managing and supervising the services involved and providing the desired product.

D. A Engineer may count toward the DBE goal its expenditures to DBE firms consisting of fees or commissions charged for providing a bona fide service, such as professional, technical, consultant, or managerial services and assistance in the procurement of essential personnel, facilities, equipment, materials or supplies required for the performance of this Agreement, provided that the fee or commission is determined by MoDOT's External Civil Rights Division to be reasonable and not excessive as compared with fees customarily allowed for similar services.

E. The Engineer is encouraged to use the services of banks owned and controlled by socially and economically disadvantaged individuals.

5. Replacement of DBE Subconsultants: The Engineer shall make good faith efforts to replace a DBE Subconsultant, who is unable to perform satisfactorily, with another DBE Subconsultant. Replacement firms must be approved by MoDOT's External Civil Rights Division.

6. Verification of DBE Participation: Prior to final payment by the Local Agency, the Engineer shall file a list with the Local Agency showing the DBEs used and the services performed. The list shall show the actual dollar amount paid to each DBE that is applicable to the percentage participation established in this Agreement. Failure on the part of the Engineer to achieve the DBE participation specified in this Agreement may result in sanctions being imposed on the Commission for noncompliance with 49 C.F.R. Part 26 and/or Section 1101(b) of TEA-21. If the total DBE participation is less than the goal amount stated by the MoDOT's External Civil Rights Division, liquidated damages may be assessed to the Engineer.

Therefore, in order to liquidate such damages, the monetary difference between the amount of the DBE goal dollar amount and the amount actually paid to the DBEs for performing a commercially useful function will be deducted from the Engineer's payments as liquidated damages. If this Agreement is awarded with less than the goal amount stated above by MoDOT's External Civil Rights Division, that lesser amount shall become the goal amount and shall be used to determine liquidated damages. No such deduction will be made when, for reasons beyond the control of the Engineer, the DBE goal amount is not met.

7. Documentation of Good Faith Efforts to Meet the DBE Goal: The Agreement goal established by MoDOT's External Civil Rights Division. The Engineer must document the good faith efforts it made to achieve that DBE goal, if the agreed percentage specified is less than the percentage stated. Good faith efforts to meet this DBE goal amount may include such items as, but are not limited to, the following:

A. Attended a meeting scheduled by the Department to inform DBEs of contracting or consulting opportunities.

B. Advertised in general circulation trade association and socially and economically disadvantaged business directed media concerning DBE subcontracting opportunities.

C. Provided written notices to a reasonable number of specific DBEs that their interest in a subconsultant agreement is solicited in sufficient time to allow the DBEs to participate effectively.

D. Followed up on initial solicitations of interest by contacting DBEs to determine with certainty whether the DBEs were interested in subconsulting work for this Agreement.

E. Selected portions of the services to be performed by DBEs in order to increase the likelihood of meeting the DBE goal (including, where appropriate, breaking down subconsultant agreements into economically feasible units to facilitate DBE participation).

F. Provided interested DBEs with adequate information about plans, specifications and requirements of this Agreement.

G. Negotiated in good faith with interested DBEs, and not rejecting

DBEs as unqualified without sound reasons, based on a thorough investigation of their capabilities.

H. Made efforts to assist interested DBEs in obtaining any bonding, lines of credit or insurance required by the Commission or by the Engineer.

I. Made effective use of the services of available disadvantaged business organizations, minority contractors' groups, disadvantaged business assistance offices, and other organizations that provide assistance in the recruitment and placement of DBE firms.

8. Good Faith Efforts to Obtain DBE Participation: If the Engineer's agreed DBE goal amount as specified is less than the established DBE goal given, then the Engineer certifies that the following good faith efforts were taken by Engineer in an attempt to obtain the level of DBE participation set by MoDOT's External Civil Rights.

**Attachment G – Fig. 136.4.15**  
**Conflict of Interest Disclosure Form for LPA/Consultants**  
Local Federal-aid Transportation Projects

**Firm Name (Consultant):** Burns & McDonnell Engineering Company, Inc.

**Project Owner (LPA):** Jackson County, Missouri

**Project Name:** Browning Road Bridge over East Branch Wilson Creek

**Project Number:** BRO-NBIL-B048(54)

As the LPA and/or consultant for the above local federal-aid transportation project, I have:

1. Reviewed the conflict of interest information found in Missouri's Local Public Agency Manual (EPG 136.4)
2. Reviewed the Conflict of Interest laws, including 23 CFR § 1.33, 49 CFR 18.36.

And, to the best of my knowledge, determined that, for myself, any owner, partner or employee, with my firm or any of my sub-consulting firms providing services for this project, including family members and personal interests of the above persons, there are:

No real or potential conflicts of interest  
If no conflicts have been identified, complete and sign this form and submit to LPA

Real conflicts of interest or the potential for conflicts of interest  
If a real or potential conflict has been identified, describe on an attached sheet the nature of the conflict, and provide a detailed description of Consultant's proposed mitigation measures (if possible). Complete and sign this form and send it, along with all attachments, to the appropriate MoDOT District Representative, along with the executed engineering services contract.

LPA (Jackson County)

Consultant (Burns & McDonnell)

Printed Name: \_\_\_\_\_

Printed Name: Benjamin J. Bille

Signature: \_\_\_\_\_

Signature: Benjamin J. Bille

Date: \_\_\_\_\_

Date: 9-11-14



**Res. 18618**

1322 Adams Street  
Kansas City, KS 66103  
913.749.4010 (tel)  
913.749.4011 (fax)  
www.tsi-engineering.com

August 12, 2014

Mr. Mike Carroll, P.E.  
**Burns & McDonnell, Inc.**  
9400 Ward Parkway  
Kansas City, MO 64114

**Re: Proposal for Subsurface Exploration and  
Geotechnical Engineering Services  
Replacement of the Browning Road Bridge  
Lee's Summit, Missouri  
TSi Proposal KCM14088**

Dear Mr. Carroll,

TSi Engineering, Inc. (TSi) is pleased to submit this proposal to Burns & McDonnell, Inc. (BMcD) to perform a subsurface exploration and geotechnical engineering evaluation for the design and construction of a reinforced concrete box culvert (RCB) on Browning Road in Lee's Summit, Missouri.

#### **PROJECT DESCRIPTION**

The Browning Road crossing is located in the Reed Memorial Wildlife Area along Browning Road approximately 1800 feet east of Smart Road. The crossing is currently a low-water crossing and the roadway is narrow and asphalt paved. We understand that the new crossing will be a multi-cell RCB. Proposed fill depths at the crossing will be no more than 10 feet at maximum.

#### **SCOPE OF SERVICES**

##### **FIELD EXPLORATION**

BMcD has requested a field exploration consisting of two borings at the proposed RCB location. The borings are to be continued to bedrock (estimated at 15 feet). Standard Penetration Test (ASTM D 1586) samples will be obtained at 5-foot intervals and one Shelby tube (ASTM D 1587) sample will be obtained in the borings. When bedrock is encountered, 5 feet of the rock will be sampled using "N" series coring tools to determine the rock mass rating. The field explorations will be conducted under the continuous field supervision of an engineer from TSi.

PROFESSIONAL SERVICE SINCE 1989

TSi will locate the borings in the field as requested by BMcD. TSi will attain the approximate surface elevations of the borings using a level and a benchmark provided by the project surveyor, or an assumed temporary benchmark elevation of 1000 feet. TSi will provide the location of the temporary benchmark in Appendix A of the final report.

#### LABORATORY TESTING

A laboratory test program will be performed on samples recovered from the borings to determine their engineering characteristics. Laboratory tests will include:

- Visual description by color and texture of each sample (ASTM 2488);
- Natural moisture content of each sample (ASTM D 2216);
- Atterberg limit on selected cohesive samples (ASTM D 4318);
- Unconfined compression test on selected cohesive samples (ASTM D 2166);
- One-dimensional consolidation (ASTM D 2435); and
- Compressive strength of rock core samples.

#### GEOTECHNICAL REPORT

Based on our understanding of the project and the scope of work proposed, the geotechnical study report will address the following considerations:

- Subsurface conditions at the boring locations;
- Laboratory test results;
- Influence of groundwater on the project;
- Foundation recommendations for the reinforced box culvert;
- Seismic site classification per MoDOT guidelines;
- Recommendations for pavement subgrade preparation;
- General construction considerations; and
- Recommendations for fill and backfill materials, placement, and compaction.

#### FEES

TSi's services for the project will be provided on a lump sum basis. Based on the scope of work provided above and assuming no unanticipated subsurface conditions are encountered, the fee is \$13,400.00. If site conditions are encountered during exploration that warrant additional work, we will notify you and discuss the necessary scope modification. However, the fee will not be exceeded without your authorization. The submittal of the written report will complete the services to be provided under this proposal.

**McLaughlin Mueller, Inc.**  
Professional Land Surveyors  
218 West Mill Street  
Liberty, MO 64068  
Phone: 816-407-0002 Fax: 816-407-0003

August 5, 2014

Mr. Mike Carroll, P.E.  
Burns & McDonnell  
9400 Ward Parkway  
Kansas City, MO 64114

Re: Surveying Services for Browning Road over East Branch of Wilson Creek  
Jackson County, Missouri

## **SCOPE OF SERVICE**

### **Introduction**

Provide survey information for the Engineer to design roadway improvements.

### **Vertical Control**

The vertical datum will be NAVD 1988 datum. Two benchmarks will be established at the project site. The benchmarks established will be listed and described on the final drawing.

### **Horizontal Control**

The horizontal datum will be based on Missouri State Plane Coordinates, 1983 West Zone. Horizontal control points established will be listed and described on the final drawing as well as their corresponding swing ties. Additional control points may be established during the course of the survey.

### **Topography**

Provide a detailed topographic survey along Browning Road approximately 300 feet wide strip by 1,100 feet long, starting 500 feet West of the low water crossing and extending 600 feet East of the water crossing as shown on the map provided. Topography will include but is not limited to roadway, field entrances, power poles, telephone poles, fences, utilities, structures and other visible improvements within the survey limits.

### **Utilities**

Contact utility companies and request that they provide locations of their facilities in the field for the project area. Show utilities in project area from available mapping if not marked in field. List utility contacts on final drawing.

### **Property Lines**

Locate an adequate number of existing property corner monuments and section corner monuments to establish existing right-of-way lines and section lines. Obtain mapping from Jackson County to reference the collected survey data. Prepare section corner tie sheets for section corners used and file with Missouri DNR if none exist.



**Deliverables**

1. Provide base map drawing of topography showing existing structures, right-of-way lines, section lines, visible utilities, marked utilities or if not marked from mapping, horizontal and vertical control points and legend for blocks and 1 foot contours.
2. Digital files will be in AutoCAD Rel. 2006, developed with Autodesk Land Development software.
3. Printouts of field notes.
4. One reproducible plan of the survey signed by a registered Land Surveyor.

**Fee \$7,900.00**

**Descriptions**

Prepare permanent and temporary descriptions for a maximum of 4 descriptions.

**Fee \$720.00**

Thank you for this opportunity to provide you with this scope of services. McLaughlin Mueller, Inc. is a Licensed and Insured Company, certificates are available upon request. Please call if you have any questions.

McLaughlin Mueller, Inc.  
Martin Mueller, PLS  
President