

EM SUBMISSION NO.: EME4032014
PRESENTED: 7-22-14
ADOPTED: 7-24-14

BY THE EMERGENCY MANAGER:

Resolution Authorizing Appropriate City Official to Execute a Professional Services Agreement with Wade Trim, Inc. to Conduct the FY2014/2015 Citywide Bridge Inspections as Required by MDOT

All municipal jurisdictions in the State of Michigan are required by the Michigan Department of Transportation (MDOT) to conduct scheduled inspections of bridges located within its corporate limits and jurisdiction.

Wade-Trim, Inc. has MDOT clearance to conduct this type of work and has submitted a proposal to conduct sixteen (16) routine and four (4) element level bridge inspections in accordance with the required inspection frequencies, and perform other required inspection-related services including identifying, evaluating, and prioritizing minor bridge repair and preventative maintenance projects and preparing cost estimates for future City planning, budgeting, and action as part of the inspections as outlined in a proposal dated June 24, 2014, for a contract price not-to-exceed \$21,250.00.

The Department of Infrastructure and Development requests authorization for appropriate City officials to do all things necessary to execute a professional services agreement with Wade Trim, Inc. to conduct citywide bridge inspections as required by MDOT and other related services for the Citywide Bridge Inspection Program during FY14-15 for a contract price not-to-exceed \$21,250.00 with funding to be made available from expense account 202-443.200-801.000.

IT IS RESOLVED, That appropriate City officials are hereby authorized to do all things necessary to execute a professional services agreement with Wade Trim, Inc. to conduct citywide bridge inspections as required by MDOT and other related services during FY14-15 for a contract price not-to-exceed \$21,250.00 with funding to be made available from expense account 202-443.200-801.000.

APPROVED AS TO FORM:


Peter M. Bade, City Attorney

APPROVED AS TO FINANCE:



Gerald Ambrose, Finance Director

EM DISPOSITION:

ENACT 2

REFER TO COUNCIL _____

FAIL _____


Darnell Earley, Emergency Manager

DATED: 7-24-14

071614 - KRN

RESOLUTION STAFF REVIEW

Date: July 16, 2014

Agenda Item Title: Resolution Authorizing Appropriate City Official to Execute a Professional Services Agreement with Wade Trim, Inc. to Conduct the FY2014/2015 Citywide Bridge Inspections

Prepared By: Kay Muhammad on behalf of Howard Croft, Infrastructure and Development Director

Background/Summary of Proposed Action:

All municipal jurisdictions in the State of Michigan are required by the Michigan Department of Transportation (MDOT) to conduct scheduled inspections of bridges located within its corporate limits and jurisdiction to ensure the safety of the traveling public. An independent structural engineer or a firm that has MDOT certification must conduct the inspections (structural analysis and load ratings) and update the operating and inventory load ratings kept by MDOT. Wade-Trim, Inc. has MDOT clearance to conduct this type of work.

Wade Trim Inc. has submitted a proposal to perform sixteen (16) routine and four (4) element level bridge inspections that will be conducted in accordance with the required inspection frequencies along with other required inspection-related services as outlined in a proposal dated June 24, 2014, for a contract price not-to-exceed \$21,250.00.

The Department of Infrastructure and Development is requesting authorization for appropriate City officials to do all things necessary to execute a professional services agreement with Wade Trim, Inc. to conduct citywide bridge inspections as required by MDOT and other related services during FY14-15 for a contract price not-to-exceed \$21,250.00 with funding to be made available from expense account 202-443.200-801.000.

Financial Implications: Noncompliance may result in undetected hazardous conditions which could lead to unsafe conditions for the traveling public and the denial of future funding due to noncompliance.

Budgeted Expenditure? Yes ☒ No **Please explain if no:**

Account No.: 202-443.200-801.000

Pre-encumbered? Yes ☒ No **Requisition #** 140000881

Other Implications (i.e., collective bargaining):

Staff Recommendation: Recommend Approval

Staff Person: _____

Howard Croft, Infrastructure and Development Director

**Proposal to Provide Professional Services
for the
City Wide Bridge Inspection Program (July 2014 – June 2015)**

Date: July 1, 2014

1. Project Name: City Wide Bridge Inspection Program (July 2014 – June 2015)

2. Location: The bridges are located in the City of Flint in various locations.
(Please see Attachment 'A')

3. Background:

The City of Flint's Transportation Department must have their bridges inspected on a six (6) month, twelve (12) month, or two (2) year schedule, depending on the condition of the bridge and the requirements of the Michigan Department of Transportation (MDOT). MDOT requires inspections of the different bridges at the frequency shown in Attachment 'A'.

4. Understanding of Needs:

The City of Flint and MDOT requires the following services:

- a. Within the next 12 months, 16 Routine Bridge Inspections and 4 Element Level Bridge Inspections will be due.
- b. Perform site inspections by a registered professional engineer of each bridge indicated on the attached 2014/2015 fiscal year listing (Attachment A). The most recent versions of "Michigan Structure Inventory and Appraisal Coding Guide", "Michigan Structure Inspection Manual", and the "Michigan Bridge Element Inspection Manual", shall be used as the basis for any evaluation. All inspections will be performed per MDOT and FHWA requirements.
- c. Perform scour inspections for any scour critical bridges over water requiring an inspection this program year. Document the inspection and scour findings on the MDOT Structural and Inventory and Appraisal sheets and Bridge Inspection Report forms. Previous written reports will be updated for each bridge describing the condition of the structural, maintenance, safety, channel and slope protection items. Updates are made using MDOT's MiBridge (formerly MBIS).
- d. Provide written reports for each structure that includes the MDOT P2502, MDOT 1717A, Element Level forms and summarizes any recommendations for any evident maintenance work, any changes in bridge conditions, and other results of the inspection for each bridge.
- e. Obtain at least six (6) photographs of each bridge. The pictures shall show the alignment and profile of each bridge. The alignment photograph will show the existing posting signs, if any. The color photograph prints shall be bound into the report, and provided to the City of Flint.

- f. Provide one (1) copy of the detailed report to the City of Flint, compiled in a three-ring binder and one (1) CD, stating "2014/15 Bridge Inspection, City of Flint". The binder shall include a spreadsheet, or similar, indicating the Bridge Name, MDOT Structural Identification Number, Facility Carried, Feature Intersection, Inspection Date, Number of Spans, Posting Status, Scour Protection and Repair Status, Major Rehabilitation Requirements, Painting Needs, Major Repair Needs, Minor Repair Needs, Maintenance Requirements, and Local Bridge Funding Eligibility.
- g. Identify, prioritize and prepare cost estimates for "minor bridge repair/maintenance" projects for future evaluation and action by city officials.
- h. Meet with the City as necessary to review the inspection results and recommendations for maintenance improvements.

7. Work Required:

Wade Trim will perform all work indicated in Section 6, "Understanding of Needs", and will deliver a final product including copies of a bound report consisting of the bridge inspections and recommended maintenance to the City of Flint following the completion of all bridge inspections.

8. Estimate:

Wade Trim will complete the inspections of the bridges and prepare reports utilizing the following employee classification, hours, and estimated fees. The following is a breakdown of costs for the detailed scope of services, including the Project Engineering, Management and Administrative Services for the bridge inspections and analysis. The actual effort expended will be invoiced to the City on a time and materials basis and in accordance with the current hourly billing rate schedule. Invoicing will include a detailed breakdown of costs by employee classifications, rates, hours, and expenses.

<u>EMPLOYEE CLASSIFICATION</u>	<u>RATE</u>	<u>HOURS</u>	<u>COST</u>
Professional Engineer III	\$150	80	\$12,000
Senior Professional	\$170	10	\$1,700
Engineer I	\$ 70	90	\$6,300
Project Administrator II	\$ 75	12	\$900
Reimbursable Expenses			\$350
TOTAL FEE			\$21,250

9. Schedule:

The development of the inspection reports will be completed at the frequencies shown in Attachment 'A' to meet the MDOT scheduled deadlines for completion.

Attachment A
2014/2015 Bridge Inspections
Summary Sheet

June 24, 2014

Bridge #	Facility	Feature	Insp Date	Freq (mon)	Insp FY 2014-2015	Future FY2015-2016	Future FY2016-2017
2557	Saginaw Road	Thread Creek	9/25/12	24	9/25/14		9/25/16
2559	GTW RR	Saginaw St (Old M-54 Br)	7/16/13	24	7/16/15		7/16/17
2827	Atherton Road	Carman Creek	7/16/13	12	7/16/14	7/16/15	7/16/16
2828	Torrey Road	Carman Creek	8/21/13	24		8/21/15	
2829	W 12th Street	Thread Creek	4/30/14	24		4/30/16	
2830	W Second Street	Swartz Creek	4/30/14	6	10/30/2014 & 4/30/2015	10/30/2015 & 4/30/2016	10/30/2016 & 4/30/2017
2831	W Kearsley Street	Swartz Creek	8/20/13	24		8/20/15	
2832	Sunset Drive - 3rd	Flint River	8/14/13	24		8/14/15	
2833	Robert T Longway	Flint River	7/12/13	24	7/12/15		7/12/17
2834	Robert T Longway	Gilkey Creek	7/17/13	12	7/17/14	7/17/15	7/17/16
2835	Hamilton Avenue	Flint River	7/12/13	24	7/12/15		7/12/17
2836	Lelth Street	W Boulevard/Flint River	7/17/13	12	7/17/14	7/17/15	7/17/16
2837	Stewart Avenue	C&O Railroad	8/20/13	24		8/20/15	
2838	Chevrolet Avenue	Flint River	4/30/14	24		4/30/16	
2839	Stevenson	Flint River	8/20/13	24		8/20/15	
2840	Fenton Road	Thread Creek	7/16/13	12	7/16/14	7/16/15	7/16/16
2841	Grand Traverse	Flint River	8/20/13	24		8/20/15	
2842	Hammerburg	Swartz Creek	8/14/13	24		8/14/15	
2843	Beach Garland STS	Flint River	7/12/13	24	7/12/15		7/12/17
2844	Harrison	Flint River	7/12/13	24	7/12/15		7/12/17
2845	East Boulevard	Gilkey Creek	8/14/13	24		8/14/15	
2846	Lewis North Bound	Gilkey Creek	8/14/13	24		8/14/15	
2847	Kearsley Park Blvd	Gilkey Creek	7/17/13	12	7/17/14	7/17/15	7/17/16
2848	S Grand Traverse	Thread Creek	7/16/13	12	7/16/14	7/16/15	7/16/16
2849	Saginaw Street	Flint River	7/12/13	24	7/12/15		7/12/17
2850	Barton Road	Thread Creek	8/21/13	24		8/21/15	
2851	Cambridge Ave.	Swartz Creek	8/14/13	24		8/14/15	
2852	Sunnyside Ave.	Gilkey Creek	8/14/13	24		8/14/15	
2853	Western Road	Kearsley Creek	8/20/13	24		8/20/15	
2854	Franklin Avenue	Gilkey Creek	8/20/13	24		8/20/15	
2855	Chambers Street	Thread Creek	8/21/13	24		8/21/15	
2856	Old Cambridge Ave.	Swartz Creek	8/14/13	24		8/14/15	
2857	Beach Street	Thread Creek	8/21/13	24		8/21/15	
2858	East Blvd.	Kearsley Creek	8/20/13	24		8/20/15	
2859	CSX RR	Flint River/East Blvd	7/17/13	24	7/17/15		7/17/17
Ped 1	Pedestrian	Flint River Beach St. & Water St. Dwn. Flint	8/21/13	24		8/21/15	
Ped 2	Pedestrian	Martin Luther King Avenue Max Brandon Park	8/20/13	24		8/20/15	
Ped 3	Pedestrian	12th Street (CLOSED) Southwestern Academy High School	8/21/13	24		8/21/15	

Denotes Increased Inspection Frequency
Denotes AASHTO Element Level Inspection
(Effective October 1, 2014)

Resolution Routing

TO: Resolution Signatories
FROM: **Dept. of Public Works**
SUBJECT: RESOLUTION FOR APPROVAL

This RESOLUTION has been forwarded to you for your respective review and approval.

Date recorded: July 17, 2014 **No.** 14-5178

** All documents should be reviewed within **three (3) working days** after receipt by your office.

Contractor:

Wade Trim, Inc.

Resolution Content:

Inspections of bridges

\$21,250.00

The attached resolution is submitted to the Legal Dept. for approval as to form only:

The **Legal Department** reviewed this **RESOLUTION**, as to form and by signing this form approves as to **FORM ONLY**.

Review and Approval:

IN

OUT

APPROVAL

1. City Attorney (**Form Only**):

7/17

7/18



2. Finance/Budget

7/22

7/22



3. Emergency Manager:

7/22

*** Please call KATHRYN, ext. 3053, Thank You. ***