

## **2017 BIENNIAL BRIDGE INSPECTION PROGRAM REQUEST FOR PROPOSALS**

The Eaton County Road Commission (ECRC) is requesting proposals to provide professional engineering services for our 2017 Biennial Bridge Inspection Program. If your firm is interested in providing bridge inspection services and meets all Michigan Department of Transportation (MDOT) and Federal Highway Administration (FHWA) NBIS requirements to perform bridge inspections in the State of Michigan, please show your interest by submitting your firm's bridge inspection Price Proposal to the Project Coordinated below:

Mathew Hannahs, P.E.  
Assistant County Engineer  
Eaton County Road Commission  
1112 Reynolds Road, Charlotte, MI 48813  
MHannahs@EatonCountyRoad.com  
(517) 543-1630 Ext. 207

Bridge inspection submittals must be received by **1:00 PM local time on Friday, March 31, 2017.**

The Eaton County Road Commission will review and evaluate the submitted price proposals.

The Eaton County Road Commission reserves the right to award the work contained herein, in whole or in part, for any reason the Eaton County Road Commission determines is in its best interest.

Additional copies of this request for proposals can be obtained through the Eaton County Road Commission's website [www.eatoncountyyroad.com](http://www.eatoncountyyroad.com). Please contact the Project Coordinator with any questions relative to the scope of engineering services or for RFP clarifications.

### **SCOPE OF SERVICES FOR BRIDGE INSPECTION**

The Consultant shall provide bridge inspection services for each of the 95 bridges under the jurisdiction of the ECRC. Contained herein is a listing of the ECRC bridges that are to be inspected as well as a location map. In addition, the contract may be extended by one year by mutual agreement of both parties to perform bridge inspections on 9 bridges currently on a 12 month inspection cycle.

The Consultant shall also provide a quote to perform bridge inspection services for the following city and village bridges. Please contact the City/Village for information related to those bridges. All work under IV below shall be coordinated with the City or Village for these bridges.

- 2 bridges within the City of Olivet
  - N. Main St over State and Indian Creek Drain
  - College St over State and Indian Creek Drain
- 2 bridges within the Village of Bellevue
  - North Main over Battle Creek River
  - Old M-78 over Battle Creek River
- 1 bridge within the Village of Dimondale
  - Bridge Street over Grand River

I. General: In accordance with the State requirements, each bridge under ECRC jurisdiction is periodically inspected following the Federal Highway Administration (FHWA) National Bridge Inspection (NBI) standards and MDOT Structure Inspection Manual. The deliverable for this scope of work will be the "Inspection Report." This report will have several components as described below and the Consultant is required to attest that the information is accurate and complete under the seal of a Professional Engineer, licensed to practice in the State of Michigan.

- II. Duration & Schedule: This proposal will be for inspection services for the bridges listed during the 2017 year. The biennial inspections are to be inspected on or before the prescribed anniversary of the bridge's previous inspection, with the exception of the April inspections. Those inspections shall be completed as near to the prescribed anniversary date as possible, but shall be inspected prior to the end of April.

The project deliverable is due on or before September 30, 2017.

- III. Staff / Team Qualification Requirements: Shall meet all MDOT and FHWA NBIS requirements.

- IV. General Description of the Work: For the purposes of this project, bridge inspection is broken into four phases: inspection of the bridge in the field; completion of the reports; communication of the findings to ECRC; and responding to review, audit, or evaluation comments. Each of these phases must be completed and approved for successful completion of the project.

1. Field Inspection

- a. Observations - The Consultant shall visit each bridge site and evaluate the structure according to the current NBI Standards and MDOT bridge inspection policies. This will be performed with a visual inspection and non-destructive tests (NDT) utilizing proper safety measures. The inspection process may not require a lot of testing, but sounding concrete for delamination, checking for suspected cracks in steel, and measuring for section loss in areas of heavy corrosion is required.

The Consultant shall clean, as necessary, to observe all of the bridge elements and record their findings in red ink on the appropriate inspection report. This information must be entered into the Michigan Bridge Inspection System (MBIS) prior to the inspection due date. There must be sufficient comments for each element to outline its condition and to justify the rating given. Previous reports may not have complete comments. The lack of previous information does not exempt the Consultant from providing sufficient comments for each element.

The Consultant shall inform the Project Coordinator in writing if, in his/her opinion, there is a need to perform an in-depth inspection on individual structures. The consultant shall provide the reasons for the recommended supplemental inspection.

The Consultant shall evaluate and report scour in accordance with the Michigan Structure Inspection Manual.

- b. Notification for Unusual Situations - The primary reason for bridge inspection is to find out if any unusual circumstances or situations could affect the continued safe operation of the bridge, whether there is a concern for public safety, or where it could be costly if repair action is delayed. The Consultant shall determine whether the bridge can safely remain in service until the next inspection date. The Consultant shall identify the cause of any unusual circumstances or situations and notify the Project Coordinator immediately via the telephone or email. The Consultant shall submit a "Request for Action" letter summarizing the situation to the Project Coordinator within three working days to ensure that corrective actions can be enacted.
2. Reports - The deliverable for this scope of work will be the 2017 Eaton County Road Commission Bridge Inspection Report and associated digital photographic image files in conformance with MDOT submittal requirements and previous biennial inspection reports. Each bridge report shall consist of at least the BIR, MBIS reports, the SI&A form, and appropriate photographs. All of the NBIS rules and guidelines, and MDOT policies and guidelines shall be followed in completing

these documents. In addition, a tabulation of all existing structure deficiencies shall be compiled with recommended strategies to address the deficiencies, whether replacement or rehabilitation, as defined by the Local Bridge Program.

Photographs shall be taken as needed to meet the Michigan Structure Inspection Manual. The photographs must be high quality, mounted on 8 ½ x 11" medium and must be captioned with a description of what the photo is showing. Photos shall be clear so all details of the photo can be seen.

3. Communication of findings – The consultant shall deliver the report to the Eaton County Road Commission and meet with the Project Coordinator to review significant issues and recommendations.
4. Responding to Comments – The Consultant shall respond to comments by the road commission and submit changes to the report if needed.

V. Meetings: The following meetings are anticipated during this project. The meeting location will be at the offices of the Eaton County Road Commission. The cost of attending the meetings shall be included in the Per Bridge Price.

1. Pre-Inspection Meeting - This meeting is intended to exchange information regarding the general procedures for communication, review the schedule, and discuss any open questions to that point before the first inspection begins.
2. Project Closeout Meeting - This meeting is intended as a review of the final presentation of the deliverables. All bridge file documentation will be submitted at this time. The Consultant shall present the findings.

VI. Responsibilities of ECRC / City / Village

1. The local agency will assign the Consultant the ability to access bridge data on the MBIS database system.
2. Allow the consultant to review the bridge files if requested.
3. Provide access for the Consultant to any pertinent information in the bridge files that may help complete the inspections, including available Average Daily Traffic (ADT) information and construction drawings.

VII. Reimbursement for Services: The Consultant will be paid for the contract deliverable on a Unit Price basis. Progress payment may be requested for work performed up to 50% of the contract price. The remaining contract amount will be paid once the 2017 Eaton County Road Commission Bridge Inspection Report has been submitted and approved. FHWA or MDOT review, audit, and evaluation meetings may be held after the contract deliverables have been received and approved. The costs to attend the review, audit, and evaluation meetings is incidental to the per bridge price.

In-depth inspections on individual bridges will be an extra cost to the contract if the ECRC approves the additional work

**EATON COUNTY ROAD COMMISSION  
BRIDGE LIST**

<b>Structure Number</b>	<b>Facility Carried</b>	<b>Features Intersected</b>	<b>Inspection Date</b>	<b>Insp. Freq.</b>
2340	FIVE POINT HWY	BATTLE CREEK RIVER	04/07/2016	12
2347	MT HOPE	SEBEWA CREEK	04/07/2016	12
2382	COATS ROAD	BATTLE CREEK RIVER	04/07/2016	12
2409	BISMARCK HWY	SEBEWA CREEK	04/07/2016	12
2350	IONIA ROAD	SCIPIO CREEK	04/11/2015	24
2351	DOW ROAD	SEBEWA CREEK	04/11/2015	24
2405	VALLEY HWY	LACEY CREEK	04/11/2015	24
2407	KINSEL HWY	LACEY CREEK	04/11/2015	24
2408	EATON HWY	SABEWA CREEK	04/11/2015	24
2411	ST JOE HWY	WINCHELL & UNION DRAIN	04/11/2015	24
2417	LAMIE HWY	LACEY CREEK(POWERS DRN)	04/11/2015	24
2419	GRESHAM HWY	THORNAPPLE CREEK	04/11/2015	24
2421	SHAYTOWN ROAD	THORNAPPLE RIVER	04/11/2015	24
2335	BELLEVUE HWY	BATTLE CREEK RIVER	04/15/2015	24
2336	BELLEVUE HWY	SPRING BROOK	04/15/2015	24
2338	FIVE POINT HWY	GAYTON & POWERS EXTN DRN	04/15/2015	24
2339	FIVE POINT HWY	BATTLE CREEK RIVER	04/15/2015	24
2355	NARROW LAKE ROAD	BATTLE CREEK RIVER	04/15/2015	24
2393	KALAMO HWY	BATTLE CREEK RIVER	04/15/2015	24
2342	ISLAND HWY	THORNAPPLE RIVER	05/02/2015	24
2356	OTTO ROAD	CLAFLIN DRAIN	05/02/2015	24
2357	OTTO ROAD	THORNAPPLE RIVER	05/02/2015	24
2358	HARTEL ROAD	THORNAPPLE RIVER	05/02/2015	24
2368	SHANCE HWY	BIG THORNAPPLE DRAIN	05/02/2015	24
2372	PINCH HIGHWAY	THORNAPPLE DRAIN	05/02/2015	24
2374	STEWART ROAD	BIG THORNAPPLE DRAIN	05/02/2015	24
2375	JOHNSON ROAD	THORNAPPLE DRAIN	05/02/2015	24
2376	ROYSTON	BIG THORNAPPLE DRAIN	05/02/2015	24
2435	KINSEL HWY	THORNAPPLE DRAIN	05/02/2015	24
2402	WHITTUM ROAD	SPRING BROOK	05/04/2016	24
2343	NASHVILLE HWY	SHANTY BROOK	05/14/2015	24
2344	VERMONTVILLE HWY	THORNAPPLE RIVER	05/14/2015	24
2348	IONIA ROAD	SHANTY BROOK	05/14/2015	24


**EATON COUNTY ROAD COMMISSION  
BRIDGE LIST**




<b>Structure Number</b>	<b>Facility Carried</b>	<b>Features Intersected</b>	<b>Inspection Date</b>	<b>Insp. Freq.</b>
2353	MULLIKEN ROAD	THORNAPPLE RIVER	05/14/2015	24
2404	VALLEY HWY	SHANTY BROOK	05/14/2015	24
2406	KINSEL HWY	SHANTY BROOK	05/14/2015	24
2415	STRIMBACK ROAD	MUD CREEK	05/14/2015	24
2420	MASON ROAD	THORNAPPLE CREEK	05/14/2015	24
2378	MAHAN HWY	BATTLE CREEK RIVER	05/20/2015	24
2379	NYE HWY	BATTLE CREEK RIVER	05/20/2015	24
2380	SPICERVILLE HWY	BATTLE CREEK RIVER	05/20/2015	24
2381	BROOKFIELD ROAD	BATTLE CREEK RIVER	05/20/2015	24
2385	VALLEY HWY	FISH CREEK	05/20/2015	24
2386	VALLEY HIGHWAY	FISH CREEK	05/20/2015	24
2387	KINSEL HWY	LITTLE THORNAPPLE RIVER	05/20/2015	24
2388	LAMIE HIGHWAY	LITTLE THORNAPPLE RIVER	05/20/2015	24
2354	COCHRAN ROAD	THORNAPPLE RIVER	05/28/2015	24
2370	GRESHAM HWY	THORNAPPLE RIVER	05/28/2015	24
2373	BENTON ROAD	THORNAPPLE RIVER	05/28/2015	24
2390	GRESHAM HWY	LITTLE THORNAPPLE RIVER	05/28/2015	24
2391	MOYER ROAD	THORNAPPLE RIVER	05/28/2015	24
2392	WHEATON ROAD	THORNAPPLE RIVER	05/28/2015	24
2365	SHERWOOD HWY	BATTLE CREEK	06/02/2015	24
2366	SHERWOOD HWY	BATTLE CREEK RIVER	06/02/2015	24
2367	SHERWOOD HWY	BATTLE CREEK RIVER	06/02/2015	24
2423	BASE LINE HWY	INDIAN CREEK	06/02/2015	24
2424	BUTTERFIELD ROAD	INDIAN CREEK	06/02/2015	24
2426	MILLER HWY	BIG CREEK	06/02/2015	24
2430	HARRIS ROAD	INDIAN CREEK	06/02/2015	24
2433	SCOTT ROAD	BIG CREEK	06/02/2015	24
2434	MATTHEWS ROAD	BIG CREEK	06/02/2015	24
2352	AINGER ROAD	BATTLE CREEK RIVER	06/05/2015	24
2363	OLD M-78	BR OF BATTLE CREEK RIVER	06/05/2015	24
2383	BROADWAY HWY	BATTLE CREEK RIVER	06/05/2015	24
2384	KALAMO HWY	BATTLE CREEK RIVER	06/05/2015	24
2425	MESSENGER HWY	INDIAN CREEK	06/05/2015	24

**EATON COUNTY ROAD COMMISSION  
BRIDGE LIST**

<b>Structure Number</b>	<b>Facility Carried</b>	<b>Features Intersected</b>	<b>Inspection Date</b>	<b>Insp. Freq.</b>
2428	SPICERVILLE HWY	TOWNLIN BROOK DRAIN	06/05/2015	24
2429	SPICERVILLE HWY	BATTLE CREEK RIVER	06/05/2015	24
2431	MCDONALD ROAD	BATTLE CREEK RIVER	06/05/2015	24
2432	STINE ROAD	BATTLE CREEK RIVER	06/05/2015	24
2337	SPICERVILLE HWY	SPRING BROOK	06/09/2015	24
2359	SPRINGPORT ROAD	PEACOCK EXTN DRAIN	06/09/2015	24
2398	BUCK HIGHWAY	SPRING BROOK DRAIN	06/09/2015	24
2399	HOLMES HWY	SPRING BROOK	06/09/2015	24
2400	BRADFORD HWY	SPRING BROOK	06/09/2015	24
2346	VERMONTVILLE HWY	THORNAPPLE RIVER	06/24/2016	12
2364	OLD US-27	BIG CREEK	06/24/2016	12
2389	GRESHAM HWY	THORNAPPLE RIVER	06/24/2016	12
2410	ST JOE HWY	SEBEWA CREEK	06/24/2016	12
2416	SHAYTOWN ROAD	SEBEWA CREEK	06/24/2016	12
2216	LANSING RD	THORNAPPLE RIVER	06/25/2015	24
2345	VERMONTVILLE HWY	LITTLE THORNAPPLE RIVER	06/25/2015	24
2349	IONIA ROAD	THORNAPPLE RIVER	06/25/2015	24
2413	SAGINAW HWY	SEBEWA CREEK	06/25/2015	24
2436	EAST GALWAY CL.	BOAT CHANNEL	06/25/2015	24
2437	EAST GALWAY CL	BOAT CHANNEL	06/25/2015	24
13118	CANAL ROAD	CANADIAN NATIONAL RR	06/25/2015	24
13404	WILLOW HWY	CARRIER CREEK	06/25/2015	24
2360	CREYTS ROAD	GRAND RIVER	09/21/2015	24
2361	WAVERLY ROAD	GRAND RIVER	09/21/2015	24
2362	WEBSTER ROAD	GRAND RIVER	09/21/2015	24
2395	PETRIEVILLE ROAD	GRAND RIVER	09/21/2015	24
2397	BUNKER HIGHWAY	GRAND RIVER	09/21/2015	24
2403	SMITHVILLE ROAD	GRAND RIVER	09/21/2015	24
2394	BROOKFIELD ROAD	BATTLE CREEK RIVER	10/22/2015	24

# EATON COUNTY, MICHIGAN TRUCK OPERATORS MAP MARCH 2, 2017

- CLASS A RESTRICTED
- CLASS B RESTRICTED PAVED
- - - CLASS B RESTRICTED GRAVEL
- CLASS A FROST FREE
- CLASS A SPECIAL DESIGNATED ROUTE
- STATE & INTERSTATE
-  BRIDGE

-  UNDERPASS
  -  POSTED PRIMARY BRIDGES
  -  POSTED LOCAL BRIDGES
- ALL LOAD RATINGS SUBJECT TO CHANGE WITHOUT NOTICE  
COUNTY ROADS AND STREETS NOT SHOWN ON MAP ARE CLASS B RESTRICTED

