

CHECKLIST TO DESIGNATE AREAS OF EVALUATION FOR REQUESTS FOR PROPOSAL (RFP)

MDOT PROJECT MANAGER			JOB NUMBER (JN)	CONTROL SECTION (CS)
DESCRIPTION				
MDOT PROJECT MANAGER: Check all items to be included in RFP WHITE = REQUIRED GRAY SHADING = OPTIONAL			CONSULTANT: Provide only checked items below in proposal	
Check the appropriate Tier in the box below				
TIER I (\$25,000-\$99,999)	TIER II (\$100,000-\$250,000)	TIER III (>\$250,000)		
			Understanding of Service	
			<i>Innovations</i>	
			<i>Safety Program</i>	
N/A			Organizational Chart	
			Qualifications of Team	
			Past Performance	
Not required As part of Official RFP	Not required As part of Official RFP		Quality Assurance/Quality Control	
			Location: The percentage of work performed in Michigan will be used for all selections unless the project is for on-site inspection or survey activities, then location should be scored using the distance from the consultant office to the on-site inspection or survey activity.	
N/A	N/A		Presentation	
N/A	N/A		Technical Proposal (if Presentation is required)	
3 pages (MDOT Forms not counted) (No Resumes)	7 pages (MDOT Forms not counted)	19 pages (MDOT Forms not counted)	Total maximum pages for RFP not including key personnel resumes	

The Michigan Department of Transportation (MDOT) is seeking professional services for the project contained in the attached scope of services.

If your firm is interested in providing services, please indicate your interest by submitting a Proposal, Proposal/Bid Sheet or Bid Sheet as indicated below. The documents must be submitted in accordance with the latest "Consultant/Vendor Selection Guidelines for Service Contracts" and "Guideline for Completing a Low Bid Sheet(s)", if a low bid is involved as part of the selection process. **Referenced Guidelines are available on MDOT's website under Doing Business > Vendor/Consultant Services > Vendor/Consultant Selections.**

RFP SPECIFIC INFORMATION

BUREAU OF HIGHWAYS

BUREAU OF TRANSPORTATION PLANNING **

OTHER

THE SERVICE WAS POSTED ON THE ANTICIPATED QUARTERLY REQUESTS FOR PROPOSALS

NO

YES

DATED _____ THROUGH _____

Prequalified Services – See page ___ of the attached Scope of Services for required Prequalification Classifications.

Non-Prequalified Services - If selected, the vendor must make sure that current financial information, including labor rates, overhead computations, and financial statements, if overhead is not audited, is on file with MDOT's Office of Commission Audits. This information must be on file for the prime vendor and all sub vendors so that the contract will not be delayed. **Form 5100J is required with Proposal for firms not currently prequalified with MDOT**

Qualifications Based Selection – Use Consultant/Vendor Selection Guidelines

For all Qualifications Based Selections, the section team will review the information submitted and will select the firm considered most qualified to perform the services based on the proposals. The selected vendor will be contacted to confirm capacity. Upon confirmation, that firm will be asked to prepare a priced proposal. Negotiations will be conducted with the firm selected.

****For RFP's that originate in Bureau of Transportation Planning only**, a priced proposal must be submitted at the same time as, but separate from, the proposal. Submit directly to the Contract Administrator/Selection Specialist, Bureau of Transportation Planning (see address list, page 2). The priced proposal must be submitted in a sealed envelope, clearly marked "**PRICE PROPOSAL.**" The vendor's name and return address MUST be on the front of the envelope. The priced proposal will only be opened for the highest scoring proposal. Unopened priced proposals will be returned to the unselected vendor(s). Failure to comply with this procedure may result in your priced proposal being opened erroneously by the mail room.

For a cost plus fixed fee contract, the selected vendor must have a cost accounting system to support a cost plus fixed fee contract. This type of system has a job-order cost accounting system for the recording and accumulation of costs incurred under its contracts. Each project is assigned a job number so that costs may be segregated and accumulated in the vendor's job-order accounting system.

Qualifications Review / Low Bid - Use Consultant/Vendor Selection Guidelines. See Bid Sheet Instructions for additional information.

For Qualification Review/Low Bid selections, the selection team will review the proposals submitted and post the date of the bid opening on the MDOT website. The notification will be posted at least two business days prior to the bid opening. Only bids from vendors that meet proposal requirements will be opened. The vendor with the lowest bid will be selected. The selected vendor may be contacted to confirm capacity.

Best Value - Use Consultant/Vendor Selection Guidelines. See Bid Sheet Instructions below for additional information. The bid amount is a component of the total proposal score, not the determining factor of the selection.

Low Bid (no qualifications review required - no proposal required.) See Bid Sheet Instructions below for additional instructions.

BID SHEET INSTRUCTIONS

A bid sheet(s) must be submitted in accordance with the "Guideline for Completing a Low Bid Sheet(s)" (available on MDOT's website). The Bid Sheet(s) is located at the end of the Scope of Services. Submit bid sheet(s) separate from the proposal, to the address indicated below. The bid sheet(s) must be submitted in a sealed manila envelope, clearly marked "**SEALED BID.**" The vendor's name and return address MUST be on the front of the envelope. Failure to comply with this procedure may result in your bid being opened erroneously by the mail room and the bid being rejected from consideration.

PROPOSAL SUBMITTAL INFORMATION

REQUIRED NUMBER OF COPIES FOR PROJECT MANAGER	PROPOSAL/BID DUE DATE	TIME DUE
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PROPOSAL AND BID SHEET MAILING ADDRESSES

Mail the multiple proposal bundle to the MDOT Project Manager or Other indicated below.

MDOT Project Manager

MDOT Other

Mail one additional stapled copy of the proposal to the Lansing Office indicated below.

Lansing Regular Mail

OR

Lansing Overnight Mail

Secretary, Contract Services Div - B470
Michigan Department of Transportation
PO Box 30050
Lansing, MI 48909

Secretary, Contract Services Div - B470
Michigan Department of Transportation
425 W. Ottawa
Lansing, MI 48933

Contract Administrator/Selection Specialist
Bureau of Transportation Planning B470
Michigan Department of Transportation
PO Box 30050
Lansing, MI 48909

Contract Administrator/Selection Specialist
Bureau of Transportation Planning B470
Michigan Department of Transportation
425 W. Ottawa
Lansing, MI 48933

GENERAL INFORMATION

Any questions relative to the scope of services must be submitted by e-mail to the MDOT Project Manager. Questions must be received by the Project Manager at least four (4) working days prior to the due date and time specified above. All questions and answers will be placed on the MDOT website as soon as possible after receipt of the questions, and at least three (3) days prior to the RFP due date deadline. The names of vendors submitting questions will not be disclosed.

MDOT is an equal opportunity employer and MDOT DBE firms are encouraged to apply. The participating DBE firm, as currently certified by MDOT's Office of Equal Opportunity, shall be listed in the Proposal

MDOT FORMS REQUIRED AS PART OF PROPOSAL SUBMISSION

5100D – Request for Proposal Cover Sheet

5100J – Consultant Data and Signature Sheet (Required only for firms not currently prequalified with MDOT)

(These forms are not included in the proposal maximum page count.)

Michigan Department of Transportation

**SCOPE OF SERVICE
FOR
TRAFFIC & SAFETY SERVICES
Traffic Signal Optimization**

CONTROL SECTION(S): 50900

JOB NUMBER(S): 112721C

PROJECT LOCATION: See Attachment A

PROJECT DESCRIPTION: Signal Retiming

Traffic Signal Optimization services on various corridors in Macomb County in the Metro Region.

This project will provide MDOT with a brief Integrated Corridor Management (ICM) Program for I-696 in Monroe County and will provide updated corridor signal progression plans with optimized traffic signal operations along each corridor to reflect the ICM Plan as well as normal daily traffic patterns. The consultant team will provide a short report describing potential equipment upgrades to each of the signals running ICM timings and possible packages to implement the potential ICM equipment upgrades. The consultant team will work directly with MDOT for both State-owned and Local-owned signals and provide this information on MDOT timing permits forms and Local timing permit forms as applicable. New timings will be implemented by MDOT. Follow-up analysis of the network and recommending adjustments to the system after implementation is required, as is a before and after study of the effectiveness. All work will follow the Michigan Signal Optimization Guidelines, the Michigan Timing Plan Preparation Guidelines timing guidelines and other documents provided by MDOT.

ANTICIPATED SERVICE START DATE: April 1, 2012

ANTICIPATED SERVICE COMPLETION DATE: December 31, 2014

PRIMARY PREQUALIFICATION CLASSIFICATION(S):

Complex Traffic Signal Operations

SECONDARY PREQUALIFICATION CLASSIFICATION(S):

None

DBE REQUIREMENT: N/A

MDOT PROJECT ENGINEER MANAGER:

Julie Vander Meer
Michigan Department of Transportation
18101 W Nine Mile Road
Southfield, MI 48075
Email: vandermeerj@michigan.gov
Tel: (248) 483-5132
Fax: (248) 569-3103

CONSULTANT RESPONSIBILITIES:

Schedule a pre-project initiation meeting to discuss the overall project schedule including data collection and to coordinate project activities and to determine signal timing objectives and issues.

Conduct two status meetings at MDOT facilities. Provide written monthly project status reports to MDOT detailing progress towards completion of the project's goals and objectives. Also provide meeting minutes.

Obtain and review the current signal timing plans. It may be necessary for the consultant to obtain and review the signal timing plans of the existing signals immediately upstream/adjacent to the project signals to evaluate continued progression along a given corridor. The consultant will work directly with MDOT to obtain any local agency signal timing plans within the project limits. 24 hour machine counts for each intersection approach shall be used to determine schedules for peak periods, nighttime periods and flash schedules.

Develop and submit for review an Integrated Corridor Management Program report that utilizes arterial corridors to provide alternate routes for motorists traveling along I-696 in Macomb County.

All intersections will require development of timings plans for the A.M. peak, P.M. peak, noon-peak and nighttime periods.

An ICM timing plan will be required for each location.

Field collection of lane geometry, posted speed limits, intersection widths, travel distance between signalized locations, grades, lane widths, no turn on red signs, pedestrian facilities (heads and pushbuttons) will be required. A review of the ambient light at each location shall also be noted. Take a digital photograph of each intersection approach.

Optimize traffic signal operations to improve traffic flow and reduce delay at each intersection using *Synchro (Version 7)* software.

Simulate the results using *SimTraffic (Version 7)* software.

Calculate vehicle and pedestrian clearance intervals at each location based on traffic signal timing standards provided by MDOT's Change Interval Guidelines.

Compile a summary of system Measures of Effectiveness and a cost/benefit analysis for the project area.

Identify any potential improvements in the existing signal equipment, lane assignment or roadway geometry that will provide better operational and safety characteristics, if corrected.

Conduct review of nearby signals on cross streets that are within 500 feet of the corridor being retimed and provide suggested timing plans. These signals should also be included in the Synchro models.

Provide the applicable local agency the MDOT timing permits for the corridor being retimed so they can utilize them to adjust their own timing permits for those effected signals. The local agency should be given enough time to allow for the installation to be implemented at the same time as MDOT.

Develop and submit for review computer simulations and “red-lined” signal-timing plans for each location in accordance with MDOT’s and each road agency’s format. Revise these timing plans in accordance with MDOT, the road agency’s and local communities’ comments.

Conduct a follow-up field critique of the new timing plans and recommend adjustments as required. Where required, submit revised signal timing plans.

Perform before and after analysis using actual travel time runs and prepare a brief summary outlining the benefits derived from the project. The following bullets will give an overview of the details that will be involved:

Data Collection:

The consultant will be required to collect and evaluate detailed point-to-point travel time data using PC Travel or similar approved data collection and processing software. Collection of travel time data using PC Travel requires use of a laptop computer, with data collected from one of the following two sources:

- Using a GPS receiver coupled with the GPS Travel Time software package, or;
- Using a vehicle-mounted transmission sensor coupled with a TDC-8 traffic count board.
- For locations where there are 3 or fewer signals along a corridor utilize the equivalent output from SimTraffic to generate existing and optimized measures of effectiveness.

Utilize the Michigan Signal Optimization Guidelines and the Michigan Timing Plan Preparation Guidelines throughout the contract, as a tool. Any unusual locations shall be discussed with the Project Manager for direction on how to proceed.

Utilize the MDOT supplied spreadsheet model for conducting benefit/cost evaluations on signal optimization projects. This is in electronic format.

PROJECT DELIVERABLES:

Provide MDOT electronic copies of the *Synchro 7* existing and optimized simulation files so that they can be updated and used for future analysis.

Provide MDOT an electronic copy of all project documentation.

Provide a written final report (3 paper copies of the report, 5 electronic copies including the report and appendices) that includes all identified roadway geometry, lane assignments, speed limits, equipment/roadway deficiencies and recommended potential ICM equipment improvements, possible packages to implement/build the potential ICM equipment upgrades, and any necessary State/Local Agency required coordination to execute a successful ICM program.

MDOT RESPONSIBILITIES:

Host a project initiation meeting to discuss the overall project schedule including data collection and to coordinate project activities and to determine signal timing objectives and issues.

Furnish to the Consultant the following:

The most recent 3-year traffic crash summaries from MDOT in a 250 ft radius around each signalized location.

Existing timing plans and signal drawings of each intersection.

Conduct final reviews and provide comments on Integrated Corridor Management Program, proposed timing permits, computer models and reports.

CONSULTANT PAYMENT – Actual Cost Plus Fixed Fee:

Compensation for this project shall be on an **actual cost plus fixed fee** basis. This basis of payment typically includes an estimate of labor hours by classification or employee, hourly labor rates, applied overhead, other direct costs, subconsultant costs, and applied fixed fee.

All billings for services must be directed to the Department and follow the current guidelines. The latest copy of the "Professional Engineering Service Reimbursement Guidelines for Bureau of Highways" is available on MDOT's website. This document contains instructions and forms that must be followed and used for billing. Payment may be delayed or decreased if the instructions are not followed.

Payment to the Consultant for services rendered shall not exceed the maximum amount unless an increase is approved in accordance with the contract with the Consultant. Typically, billings must be submitted within 60 days after the completion of services for the current billing. The final billing must be received within 60 days of the completion of services. Refer to your contract for your specific contract terms.

Direct expenses, if applicable, will not be paid in excess of that allowed by the Department for its own employees in accordance with the State of Michigan's Standardized Travel Regulations.

Supporting documentation must be submitted with the billing for all eligible expenses on the project in accordance with the Reimbursement Guidelines. The only hours that will be considered allowable charges for this contract are those that are directly attributable to the activities of this project.

The use of overtime hours is not acceptable unless prior written approval is granted by the MDOT Region Engineer/Bureau Director and the MDOT Project Manager. Reimbursement for overtime hours that are allowed will be limited to time spent on this project in excess of forty hours per person per week. Any variations to this rule should be included in the priced proposal submitted by the Consultant and must have prior written approval by the MDOT Region Engineer/Bureau Director and the MDOT Project Manager.

The fixed fee for profit allowed for this project is 11.0% of the cost of direct labor and overhead.

ATTACHMENT A

I-696 EB Service Drive at Dequindre
I-696 WB Service Drive at 11 Mile Road
Mound SB at 11 Mile Road
Mound NB at 11 Mile Road
11 Mile Road at ATAC Gate 38
M-53 (Van Dyke) at Martin
I-696 WB Service Drive at XOE M-53 (Van Dyke)
I-696 EB Service Drive at XOW M-53 (Van Dyke)
I-696 WB Service Drive at M-53 (Van Dyke)
I-696 EB Service Drive at M-53 (Van Dyke)
M-53 (Van Dyke) at Bernice
M-53 (Van Dyke) at Engleman
I-696 WB Service Drive at Arsenal
Hoover at St. Johns Hospital
Hoover at Martin
I-696 WB Service Drive at XOE Hoover
I-696 EB Service Drive at XOW Hoover
I-696 EB Service Drive at Hoover
I-696 WB Service Drive at Hoover
Hoover at Carousel Shopping Center Drive
Hoover at Frazho
Hoover at Engleman
I-696 WB Service Drive at Bunert
I-696 EB Service Drive at Bunert
I-696 EB Service Drive at Hayes
I-696 WB Service Drive at M-97 (Groesbeck)
I-696 EB Service Drive at M-97 (Groesbeck)
I-696 WB Service Drive at Hayes
M-97 (Groesbeck) at Frazho
Hayes at Frazho
M-97 (Groesbeck) at Martin
I-696 WB Service Drive at Barkman
I-696 EB Service Drive at Barkman