

Michigan Department of Transportation Consultant Prequalification Application Review Form			COLUMN FOR INTERNAL USE ONLY	
Classification:	Design – Traffic: ITS Design & System Manager			
Consultant:				
Procedural Evaluator:	Courtney Causie	Email: CausieC@michigan.gov		
Technical Evaluator:	Joseph Gorman	Email: GormanJ4@michigan.gov		
Classification Description				
Definition / Use Statements:	Design of Intelligent Transportation System (ITS) devices including power and communications Infrastructure, and System Manager Services for their implementation.			
Supplied Key Staff				
	Primary Résumé:	Supplemental Résumé (Optional):		
Project Manager:	PASS <input type="checkbox"/> FAIL <input type="checkbox"/>			PASS <input type="checkbox"/> FAIL <input type="checkbox"/>
Design Engineer 1:	PASS <input type="checkbox"/> FAIL <input type="checkbox"/>			PASS <input type="checkbox"/> FAIL <input type="checkbox"/>
Design Engineer 2:	PASS <input type="checkbox"/> FAIL <input type="checkbox"/>			
System Manager:	PASS <input type="checkbox"/> FAIL <input type="checkbox"/>			PASS <input type="checkbox"/> FAIL <input type="checkbox"/>
Quality Assurance Measures				
QA/QC Plan:	Vendor has provided an overview of how they assure their customers receive quality products and services.		PASS <input type="checkbox"/> FAIL <input type="checkbox"/>	
Prequalification Classification:	Design – Traffic: ITS Design & System Manager			
Registrations / Certifications:	Minimum of One (1) Professional Engineer Licensed in Michigan		PASS <input type="checkbox"/> FAIL <input type="checkbox"/>	
Equipment / Software:	Provide a document certifying that you currently own and that your staff is trained to use the software/equipment listed below. Each version of software must be identified and must be MDOT's current version. Please detail any applicable add-ons (Open Roads Designer, Open Bridge Designer, etc.).		PASS <input type="checkbox"/> FAIL <input type="checkbox"/>	
	MDOT accepted version of Bentley CONNECT products—MDOT Current Workspace Requirements			
	ARC-IT	SET-IT		
	TransCAD			
Resources / Manuals:	Provide a document certifying your firm has access to current versions of the following and that you have staff that is knowledgeable in the use of these items:		PASS <input type="checkbox"/> FAIL <input type="checkbox"/>	
	MDOT PPMS Manual	MDOT Traffic & Safety Geometric Design Guides		
	MDOT Standard Plans	All Applicable FUSP's		
	MDOT Pay Item Code Book	National Electrical Code (NEC)		
	MDOT Standard Specifications for Construction			

Key Staff Requirements:

Resumes for Key Staff and Support Staff are limited to two (2) pages per person and must include the level of education completed, a listing of recent projects with the name of the client, project description, location, service cost, staff member's role on the project, firm's role on the project, as well as the name and phone number of the client representative. All projects listed must demonstrate current knowledge related to this classification, MDOT and AASHTO standards, as well as proper use of the equipment, software, resources and manuals listed above. Preference will be given to projects completed for the Michigan Department of Transportation.

Project Manager

Vendor has provided a minimum of one (1) resume for this role. Provided resumes detail the following:

- Level of education completed. Emphasis in traffic operations is beneficial, as is a Master Degree in related fields, and Professional Traffic Operations Engineer (PTOE) certification.
- A minimum of five (5) years of ITS experience with at least five (5) projects completed within the last ten (10) years.
- List projects showing knowledge of National and MDOT standards and procedures for ITS planning, design, and/or implementation services.
- Project listing should demonstrate a wide range of experience in ITS applications, operations, studies and design including, but not limited to:
 - ITS infrastructure and device design
 - ITS Architecture
 - ITS Planning and development studies (including long range plans, pre-deployment studies and early deployment plans)
 - ITS Cost/Benefit evaluations
 - Communications technologies for ITS
 - Maintenance planning, estimating and scoping
 - Preparation of cost estimates for ITS projects
 - Understanding of Advanced Traffic Management Systems (ATMS), Advanced Traveler Information Systems (ATIS), Commercial Vehicle Operations (CVO), automated toll collection and border crossings and Rural ITS issues, planning, evaluation, design and implementation
 - Understanding and experience with ITS freeway, non-freeway, transit and other applications

Design Engineer

Vendor has provided a minimum of two (2) resumes for this role. Provided resumes detail the following:

- Level of education completed. Bachelor of Science in Engineering is required.
- If Project Manager is not a Licensed Civil Engineer, then the Lead Design Engineer must be.
- A minimum of five (5) years of ITS experience with at least five (5) projects completed within the last ten (10) years.
- List projects showing knowledge of National and MDOT standards and procedures for ITS planning and design and the National ITS Architecture.
- Project listing should demonstrate a wide range of experience in ITS applications, operations, studies and design including, but not limited to:
 - Communications technologies for ITS
 - ITS infrastructure and device design
 - Preparation of cost estimates for ITS projects
 - Experience in designing integrated ITS systems based on industry standards to include National Transportation Communications for ITS Protocol (NTCIP) and Transmission Control Protocol/Internet Protocol (TCP/IP).
 - Experience and knowledge of engineering services necessary to integrate all the various components, component systems, subsystems, and services related to ITS systems. These may include, but are not limited to, fiber-optic networking, wireless networking, licensed and unlicensed radio communications, NTCIP protocol, TCP/IP protocol, and Linux and other operating systems.
 - Understanding of Advanced Traffic Management Systems (ATMS), Advanced Traveler Information Systems (ATIS), Commercial Vehicle Operations (CVO), automated toll collection and border crossings and Rural ITS issues, planning, evaluation, design and implementation
 - Understanding and experience with ITS freeway, non-freeway, transit and other applications

Staff Education / Experience:

<p>Staff Education / Experience (continued):</p>	<p><u>System Manager</u></p> <p>Vendor has provided a minimum of one (1) resume for this role. These may be the same staff as provided for Design Engineer/staff. Provided resumes detail the following:</p> <ul style="list-style-type: none"> • Level of education completed. • A minimum of five (5) years of ITS experience with at least five (5) projects completed within the last ten (10) years. • List projects showing knowledge of National and MDOT standards and procedures for ITS planning and design. • Project listing should demonstrate a wide range of experience in ITS applications, operations, integration, and design including, but not limited to: <ul style="list-style-type: none"> ○ Communications technologies for ITS ○ ITS infrastructure and device design ○ Oversight of ITS installation and integration contractors for ITS infrastructure projects. ○ Post-design services such as inquiry response, system testing and proofing, and the general management for the procurement of ITS devices as required. ○ Oversight of component and system acceptance tests and working with contractors, integrator, and vendors for performing all tests. ○ Preparation of cost estimates for ITS projects ○ Experience in designing integrated ITS systems based on industry standards to include NTCIP and TCP/IP. ○ Experience and knowledge of engineering services necessary to integrate all the various components, component systems, subsystems, and services related to ITS systems. These may include, but are not limited to, fiber-optic networking, wireless networking, licensed and unlicensed radio communications, NTCIP protocol, TCP/IP protocol, and Linux and other operating systems. 	<p>PASS <input type="checkbox"/></p> <p>FAIL <input type="checkbox"/></p>
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<p>Comments:</p>	
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<p>Technical Evaluator Signature & Date:</p>	<p>Final Determination:</p>
	<p>APPROVED <input type="checkbox"/></p>
<p>Contract Services Approval – Signature & Date:</p>	
	<p>DENIED <input type="checkbox"/></p>