

Construction Prequalification Work Classification

Intelligent Transportation Systems (ITS) Installation

MDOT is introducing a new work classification to our construction prequalification. The ITS classification is for the installation of Intelligent Transportation Systems including, but not limited to: Surveillance, Vehicle Detection, and Traveler Information Systems; Communications and Network Infrastructure; Video Compression Equipment; Road Weather Information Systems (RWIS); Power Systems; and Auxiliary ITS Devices. It will also include the removal, replacement, and reinstallation of the ITS devices listed.

The requirements to attain this work classification are attached to this announcement, but include having a certified Master Electrician on staff, an electrical license for the company, and at least one of the following certified technicians on staff: BICSI Certified ITS Cabling Installer I, IMSA Fiber Optics for ITS Level 2, or ETA Certified Fiber Optic Installer.

Contractors not currently prequalified with MDOT will need to complete a prequalification application (Form 1313) in its entirety, including any additional documentation required for the ITS work classification and for first time prequalifying companies. Information on how to get prequalified, as well as Form 1313 is available on our website at www.michigan.gov/mdot/Business/Contractors/prequalification.

Any current prequalified contractors who would like this work classification added to their current prequalification should contact Theresa Myrick at MyrickT@Michigan.gov.

For additional information and/or questions regarding the ITS classification, please contact Theresa Myrick at MyrickT@Michigan.gov or 517-243-8267.

Intelligent Transportation Systems (ITS) Installation Work Classification Code = ITS

Provide Intelligent Transportation Systems (ITS) installation including, but not limited to; Surveillance, Vehicle Detection, and Traveler Information Systems; Communications and Network Infrastructure; Video Compression Equipment; Road Weather Information Systems (RWIS); Power Systems; and Auxiliary ITS Devices. This also includes the removal, replacement, and reinstallation of ITS devices as noted above.

Professional Certifications

- Certified Master Electrician (Michigan) on staff.
- Company must have an Electrical License (Michigan).
- Contractor staff must include at least one of the following:
 - BICSI certified communication technicians - ITS Cabling Installer 1
 - IMSA fiber optics for ITS Level 2
 - Electronic Technical Association (ETA) - Fiber Optic Installer Certification

Staff Education and Experience

Project Managers

Provide resumes showing the following:

- Experience in managing ITS installation projects.
- A minimum of five (5) years of experience managing ITS installation projects is required.
- Projects showing experience in national and MDOT standards and procedures for ITS installation.

ITS Installation Technicians

Provide resumes showing the following:

- Experience in ITS installation.
- A minimum of two (2) technicians with at least three (3) years of ITS project experience is required.
- Provide a list of projects showing experience in national and MDOT standards and procedures for ITS installation.

Contractor Project Experience

List ITS installation projects completed within the past five (5) years.

- A minimum of five (5) projects must be listed. Projects completed for the Michigan Department of Transportation will be given a higher consideration than projects completed for Michigan municipalities.
- For projects completed in other states, listed projects must be for other public sector organizations (state Departments of Transportation, local municipalities, etc.).
- For each project to be submitted for evaluation, provide the name and phone number of the owner's representative. This person may be contacted to provide a reference.
- The dollar value of the contractor's work for each project shall be listed. The size of the projects will be considered in prequalification determination.
- Project listing shall describe the project work that was performed by the applying contractor and should demonstrate a wide range of experience in ITS installations, including, but not limited to one or more of the following:
 - Surveillance Systems – Closed Circuit Television (CCTV) Cameras.
 - Vehicle Detection Systems - Microwave Vehicle Detection Systems (MVDS), magnetometers, inductive loop detectors, point detection systems, etc.
 - Traffic Information Systems - Dynamic Message Signs (DMS), Small, Large, walk-in, Portable Changeable Message Signs (PCMS), Travel Time Systems (TTS), and variable speed signs.
 - Communications Infrastructure - Cabling (CATS, fiber optic, copper), microwave and serial wireless radios (licensed and unlicensed frequencies).
 - Network Infrastructure - Servers, ethernet switches (Layer 2, Layer 3), workstations, cabling (CATS, fiber optic, serial), modem/routers (cellular, Internet Service Provider (ISP)), Terminal Device Servers (TDS), etc.
 - Video Compression Equipment - MPEG4 digital encoders and decoders, video servers, video monitors, video wall equipment, etc.
 - Road Weather Information Systems- Environmental Sensor Stations (ESS), atmospheric sensors (relative humidity, temperature, wind speed and direction, precipitation, visibility, etc.), pavement surface sensors, sub-surface sensors, Remote Processing Unit (RPU), etc.
 - Auxiliary ITS Devices - ITS cabinets, shelters, bracketry, camera lowering devices (CLD), camera housings, splice enclosures, etc.
- List knowledge of national and MDOT standards and procedures for ITS installation and testing.