

# SUPPLEMENTAL QUESTIONS

## OUC 50000 - Bureau of Project Development



**MaineDOT**

Consultant Name: \_\_\_\_\_

Date: \_\_\_\_\_

- All Supplemental Questions must be answered for each Numbered Service checked off in **Section 5 Services Requested for Prequalification Consideration** on the Application.
- There is a bookmark navigation panel to the left. To navigate to a set of Supplemental Questions, click on the “plus sign” next to the applicable Service Number then answer each question.
- If a Service Number checked off in Section 5 of the Application is not listed in the Table of Contents below or on navigation panel, there are no Supplemental Questions for that Service Number.

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Inspector Descriptions for 601.00 – 606.10, 608.00 & 609.00 Inspection, Testing and Construction Management

**PLEASE NOTE - Inspector descriptions below are followed by Supplemental Questions:**

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**Class I**

- 1. **General Inspector** - assigned as an inspector on a single operation on Department project. Duties include basic construction inspection, measurement and documentation of construction activities and computation of quantities and test values to ensure compliance with specifications. Performs basic field testing and communicates test results to internal and external customers. Specific duties may include but are not limited to being a Hot Mix Asphalt paving ticket taker or performing basic inspection of construction activities.

**Class II**

- 1. **Inspector** - assigned as an inspector on single or multiple construction operations on Department project(s). Duties include inspection, measurement and documentation of work done by the Contractor to ensure compliance with specifications. Certification requirements include:
  - i. ACI/NETTCP field testing concrete certification is required for some projects.
- 2. **Paving Inspector** - assigned as an inspector on single or multiple Hot Mix Asphalt paving projects. Duties include inspection, measurement and documentation of work done by the Contractor to ensure compliance with specifications. Certification requirements include:
  - i. NETTCP Hot Mix Asphalt Paving Inspector certification is required.
- 3. **Testing Technician** – assigned as a technician on single or multiple projects. Duties include performing field/lab testing for Hot Mix Asphalt, Portland Cement Concrete or soil/aggregates, etc., and documenting/communicating test results to internal and external customers. At least one of the following certifications is required:
  - i. NETTCP Soil and Aggregate Inspector, or
  - ii. ACI/NETTCP Field testing concrete certification; or
  - iii. NETTCP Hot Mix Asphalt Plant Technician
- 4. **Assistant Designer-Estimator** - assigned to Regional Office to work on single or multiple projects. Duties will include compiling data, detailing, estimating quantities and other associated design detail work.
- 5. **Assistant Paint Inspector** - assigned to painting of sophisticated paint systems where NACE Basic training (Level 1) or equivalent training is required.

**Class III**

- 1. **Chief Inspector** - assigned as the primary inspector on a single or multiple construction projects or as a lead inspector on large Department projects. Duties include inspection, measurement and documentation of work performed by the Contractor to ensure compliance with specifications. Inspectors in this class may supervise other inspectors. Certification requirements include:
  - i. NETTCP Hot Mix Asphalt Paving Inspector certification is required for any inspector on single or multiple hot mix paving projects.
  - ii. ACI/NETTCP Field Testing Concrete Certification is required for Bridge Program projects, and may be required for other projects.

2. **Senior Testing Technician** – assigned as a technician on multiple projects and/or multiple HMA/PCC plants. Duties include inspection, oversight of Contractors’s quality control activities, sampling materials, performing scale checks, and documentation of work performed by the Contractor to ensure compliance with specifications.  
All Three of the following certifications are required:
  - i. NETTCP Hot Mix Asphalt Plant Technician; and
  - ii. NETTCP Soil and Aggregate Technician; and
  - iii. NETTCP Concrete Technician (or MCTCB Concrete Plant Technician.).
3. **Paint Inspector** - assigned to painting of sophisticated paint systems where NACE Intermediate training (Level 2 or 3), SSPC BCI Level I, or equivalent training is required.

**Class IV - Resident** - assigned as the on-site administrator of a single or multiple construction project(s). This position is responsible for, including but not limited to the inspection, testing, measurements and documentation of quantities, and closeout for the project. This position may supervise inspectors furnished by the Department or a Consultant, and may be assigned to assist other Residents with compliance reviews. Certifications may be required on some projects.

**Class CM - Construction Manager** – Assigned to oversee and provide support to Construction Residents and Inspectors on multiple Projects statewide. This position is also responsible for the construction support and oversight of locally administered construction project(s). This position reports directly to the Department’s Project Manager or Construction Manager/Construction Engineer.

**Class PI - Chief Paint Inspector** - assigned to painting of sophisticated paint systems where NACE Certification, SSPC BCI certification or equivalent certification is required.

Qualifications - Consultant personnel shall be rated as Class I, II, III, IV, CM and PI based upon their education, experience in the work required and certification(s) received from the following organizations:

- State of Maine Assistant Technician, Technician, Senior Technician or Civil Engineer classifications
- American Concrete Institute (ACI)
- National Association of Coating Engineers. (NACE)
- Northeast Transportation Training and Certification Program (NETTCP)

**Class ITS - ITS Inspector** - assigned to Intelligent Transportation System projects, including Advanced Transportation Control (ATC) Systems, or other sophisticated traffic management systems projects.

ITS inspector will be required to have the following IMSA trainings

- Traffic Signal Technician Level I
- Traffic Signal Technician Level II
- Traffic Signal Construction Technician Level II
- Traffic Signal Inspector Level I
- Traffic Signal Inspector for Advanced Technologies

Certification in each of the areas above, shall be current. Expired IMSA certifications, other qualified trainings/ certifications, and/or an appropriate level of experience may be acceptable on a case-by-case basis, as determined by the Department.

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**Supplemental Question(s) for 601.00 – 606.10, 608.00 & 609.00 Inspection, Testing & Construction Management**

1. Submit a summary of any ACI/NETTCP/OSHA/Painting certifications and licenses your staff holds (i.e., HMA/PCC plant technicians, paving inspectors, concrete technicians/inspectors, Soil & Aggregate technicians/inspectors, nuclear gauge certified or any other pertinent licenses or certifications), and the people who hold them, in the form of a spreadsheet or report as a separate attachment to the submittal email. Only list staff that may be available to MaineDOT. (This question does not apply to 609.00)

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2. Describe your process for promoting Inspectors from one class to another.

3. Does your firm do QC Testing or Inspections for Contractors who bid on MaineDOT projects?    Yes    No  
Please elaborate and explain what measures you will have in place to prevent your firm from working on both QA and QC on any given MaineDOT project?

4. What type of training program does your firm have for construction Resident and Inspectors?

5. Provide a brief summary of your firm's safety policy and safety training program.

6. Is your firm able to provide resources for night work?  Yes  No

7. By classification, please place a checkmark below the regions that you propose providing services in:

<u>INSPECTOR</u>	Region 1 (Southern)	Region 2 (Midcoast)	Region 3 (Western)	Region 4 (Eastern)	Region 5 (Northern)
Class I – GENERAL					
Class II - INSPECTOR					
Class II – PAVING					
Class II - TESTING					
Class II – ASST. DESIGNER/ESTIMATOR					
Class II – ASSISTANT PAINT					
Class III - CHIEF					
Class III – SENIOR TESTING					
Class III - PAINT					
Class IV - RESIDENT					
Class CM – CONSTRUCTION MANAGER					
Class PI – CHIEF PAINT					
Class ITS – ITS INSPECTOR					

**Supplemental Question(s) for 608.00 Materials Testing/Inspection**

1. How many soil gradations/soil densities/ proctors/ etc. did your firm perform last calendar year?

2. Do you have experience performing density testing for full-depth recycled materials or Cold In-place recycled pavements?  Yes  No

3. Do you have experience performing Thin Layer density testing?  Yes  No

4. Does your firm use nuclear gauges?  Yes  No

Does your firm have a Radiation Safety Program?  Yes  No

## Supplemental Question(s) for 609.00 Intelligent Transportation Systems (ITS) Construction Inspection

### RESUME REMINDERS FOR SERVICE # 609.00:

- The firm shall supply a list of all staff who shall be assigned to and/or will be working on the MaineDOT ITS project and include resumes of each person. The firm shall designate one or more employees or sub-consultants as the systems integrator for all ITS equipment such as CCTV, VMS, RPM, cell modems and Ethernet switches. The system integrator shall be certified in the installation, configuration and troubleshooting of all ITS components and current software systems in use by MaineDOT. The system integrator shall also be certified in the following:
  - a. Cisco Network equipment
  - b. Cisco IE-2000, IE-4000 family of switches
  - c. Cisco 819 Cellular router
  - d. Cisco IR 1101 router
  - e. MaineDOT video management system
  - f. Genetec Security Center Version 5.7 SR3
  - g. Fiber optic design
  - h. Network design
  - i. Low voltage design

### Supplemental Questions:

1. This service number requires the following IMSA Certifications: Traffic Signal Technician, Traffic Signal Technician II Construction, Traffic Signal Technician Level II, Traffic Signal Inspector and Traffic Signal Inspector for Advanced Technologies (or Department approved equals). List your ITS level certification and personnel who have those certifications.

2. Describe your firms experience with ITS projects that your firm has performed construction level inspection on. Please provide up to 3 examples that current personnel in your firm actively worked on and contacts for each of those projects. Only include work for staff who would be available for this work.

3. Please describe your employees experience with communications infrastructure serving ITS devices. Include any wireless, hardwire line, or network communication system experience.

## Inspector Descriptions for 607.00 Fabrication Inspection

**PLEASE NOTE - Inspector descriptions below are followed by Supplemental Questions:**

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**General Inspector** – May include shop fabrication inspection of rolled beam bridges, bridge drains, bridge expansion joints, bridge galvanizing, simple protective coatings.

**Certified Welding Inspector** – May include shop fabrication inspection of welded girder bridges, rolled beam with cover plates bridges, fracture critical bridges, high mast poles, and overhead sign structures. Minimum certification required is AWS CWI or approved equivalent\*.

**Concrete Inspector I** – May include shop fabrication inspection of precast concrete bridge elements, or other transportation related items. Minimum certification required is NETTCP Concrete Inspector, ACI Field Inspector Grade 1, PCI Level I or approved equivalent\*.

**Concrete Inspector II** – May include shop fabrication inspection of precast/prestressed concrete elements. Minimum certification required is PCI Level II, or approved equivalent\*.

**Coating Inspector** - Assigned to inspect shop-applied protective coating of new bridge elements, or other transportation related items. Coatings could include a wide variety of products such as galvanizing, metallizing or multi-coat painting systems. Minimum certification required is NACE Level 1, SSPC BCI Level 1 or approved equivalent\*.

**Specialized Inspection** – May include the evaluation of any type of fabrication facility, review of nonstandard shop drawings, review of nonstandard weld procedures, shop inspection of timber bridges, shop inspection of Fiber Reinforced Polymer bridges or movable bridge components.

*\* Firms wanting to propose an “equivalent” certification designation for approval must do so by submitting it as a question during this RFQ’s Question & Answer (Q&A) period.*

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**Supplemental Question(s) for 607.00 Fabrication Inspection**

1. Check the type of the inspection services your firm is interested in providing:
  - a. General bridge shop inspection (rolled beams, expansion joints, drains, bearings)
  - b. Welded bridge girder inspection
  - c. Moveable bridge component inspection (mechanical, electrical)
  - d. Precast concrete inspection
  - e. Prestressed concrete inspection
  - f. Timber bridge component inspection
  - g. Fiber Reinforced Polymer bridge inspection
  - h. Protective coating system inspection (rebar, piling, structural and misc. steel)
  - i. Highway lighting and sign support structure inspection (high mast poles, mast arm structures and strain poles)
  
2. How many inspectors in your firm are qualified as follows?
  - a. American Welding Society (AWS) Certified Welding Inspectors
  - b. American Concrete Institute (ACI) Certified Concrete Technicians
  - c. Protective Coatings:
    - Basic training (NACE Level 1 or SSPC BCI Level1)
    - Advance training (NACE Level 2 or SSPC BCI Level 2)
    - Other (NHI training, private), provide name of certification:
  
  - d. Prestressed Concrete Institute (PCI) Technicians: Level I Level II

3. By classification, please place a checkmark below the States that you propose providing services in:

<u>INSPECTOR</u>	AL	CT	FL	IN	MA	ME	NH	NY	OH	PA	VA	VT	Canada NB NS	Other
GENERAL														
WELDING														
CONCRETE I														
CONCRETE II														
COATING														
SPECIALIZED														