



SUPPLEMENTAL QUESTIONS
OUC 52000 - Bridge Program

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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Supplemental Questions for 203.10 Structure Coating Submittal Review**RESUME REMINDER FOR SERVICE #203.10:**

Personnel involved in this process shall be experienced in review of submittals related to the following:
Temporary enclosure/containment structures that are attached to permanent structures; removal and disposal of existing coatings from structural steel, including lead-based paint systems; surface preparation of existing structural steel to accept new coatings; application of high-performance coatings systems; sampling and testing procedures and environmental evaluations and remediations related to removal of existing coatings and application of new coating systems.

Supplemental Questions continued on next page

Consultant Name: _____

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1. How does your firm determine that the personnel reviewing and commenting on the types of submittals described in the Service Definition are qualified to perform these functions?

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2. Does your firm have qualified personnel who have experience with reviewing and commenting on the types of submittals described in the Service Definition?

Supplemental Question(s) for 804.10 Geotechnical Investigations and Engineering Services

1. Provide a description of at least three (3) AASHTO LRFD bridge and highway projects which highlight your firm's recent experience. Experience in the following areas are of interest: (1) foundations constructed on soft, compressible soils; (2) ground improvement for mitigation of liquefaction; (3) lightweight fills; (4) accelerated bridge construction (5) soil and rock slope stabilization designs.

Note: A separate attachment to the submittal email is acceptable for this question. (Limit 3 pages)

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2. Organizational Structure and Overall Project Management Approach

Provide an organization chart or list of key personnel to be assigned to contract projects, and the location of the office where these people work. Personnel who will perform the following functions are of interest:

- a. Geotechnical exploration inspection/monitoring
- b. Geotechnical engineering analyses
- c. Geotechnical sheet development using MicroStation ORD
- d. Design quality control and quality assurance
- e. Geotechnical project management, budgeting and scheduling
- f. Geotechnical construction support

Describe approach to coordinating the activities above with general civil engineering firms.

Note: A separate attachment to the submittal email is acceptable for this question. (Limit 3 pages)

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3. Geotechnical Exploration Programs

Describe your firm's approach to develop, coordinate, conduct and inspect/monitor geotechnical field exploration programs. If drilling services are subcontracted, provide the name of drilling subcontractor and examples of projects for which they provided services.

Note: A separate attachment to the submittal email is acceptable for this question. (Limit 1 page)

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4. Geotechnical Laboratory Services

Describe your firm's approach to develop, coordinate and conduct geotechnical soil and rock lab testing. If geotechnical soil and rock lab testing services are subcontracted, provide the names and services of those testing labs.

Note: A separate attachment to the submittal email is acceptable for this question. (Limit 1 page)

5. Automated Boring Log Drafting and MicroStation Capabilities

The Department requires the use of GeoSystem Logdraft for automated boring log drafting and the generation using the MaineDOT boring log template. Describe your experience and approach to automated boring log drafting and the development of Boring Log sheets from GeoSystem Logdraft export files..

The Department has implemented MicroStation OpenRoads Designer (ORD). Describe your approach to coordinating with civil engineering firms to acquire Microstation dgn files for the purpose of generating the Boring Location Plan and Interpretive Subsurface Profile sheets for geotechnical reports and contract documents. Describe your company's experience with ORD.

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6. Department Geotechnical Policies and Practices

The Department requires geotechnical deliverables comply with its MaineDOT Key to Soil and Rock Descriptions and Terms, Automatic Hammer Calibration Policy, Field Vane Undrained Shear Strength Testing Procedures and the MaineDOT Bridge Design Guide (BDG) Section 2.10 – Subsurface Exploration Programs. Describe your firms approach to providing geotechnical deliverables that comply with MaineDOT standards and policies.

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7. Geotechnical Construction Support and Instrumentation Programs

Briefly describe your firm's experience and capabilities in the following areas.

- a. Construction quality control programs for unconventional fill embankments and ground improvement programs;
- b. Construction QC programs for the installation and testing of driven piles, drilled shafts, rock anchors, soil anchors and micropiles;
- c. Design, installation, monitoring and interpretation of geotechnical instrumentation programs.

Supplemental Question(s) for 805.00 Geophysical Services1. Geophysical Testing Experience & Capabilities

Describe your firm's ability to develop, conduct, interpret and document geophysical investigations using ground penetrating radar (GPR), cross hole seismic, seismic refraction, pulse-echo, borehole acoustic/optical televiewer (ATV/OTV), etc.

Provide a description of geophysical program for bridge and highway projects completed in the last five years that highlights your firm's experience in any of the following areas:

- a. Unknown bridge foundations
- b. Sinkholes and subsurface anomalies
- c. Bridge substructure condition evaluations
- d. Bedrock profiling
- e. Bedrock profiling in rivers, coastal areas and ponded areas
- f. Underwater surveys of relic foundations and debris piles
- g. Integrity testing of old pile foundations
- h. Unknown pile lengths

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2. Foundation Testing Services

Describe your firm's abilities to conduct construction phase geophysical and foundation testing services for (i) monitoring and load testing driven piles, and (ii) integrity testing of drilled shafts, including crosshole sonic logging (CSL), thermal integrity testing (TIP), pulse echo and sonic echo.

Note: A separate attachment to the submittal email is acceptable for this question. (Limit 2 pages)