

Work Type Definition and Submittal Requirements

6.8 Solid Stem Auger Drilling

Work Type Definition

Page 1 details the work type definition. In order to become *pre-qualified* for this work type, please see the “Work Type Submittal Requirements” on pages 2-3.

I. Description

The proposed work and services consist of taking solid stem borings and providing a detailed boring log. Investigations will identify and locate borings, both horizontally and vertically. Boring logs shall identify the in situ pavement structure, soils, rock, ground water conditions, and establish the characteristics of the subsurface materials visually, by sampling, and by laboratory testing according to MnDOT standards and specifications.

Note: Firms that do not do their own subsurface investigations do not qualify for this work type. Please refer to Work Type 6.9 Soils Analysis and Pavement Recommendations.

II. Standards and Specifications

Standards and specifications required for a project under this work type may include the following:

- A. All tasks will be performed in accordance with current ASTM, AASHTO, and MnDOT standards and specifications. All investigations will be conducted in accordance with current Minnesota Department of Health Regulations as well as MnDOT Specifications. The current MnDOT Specifications for Soils Investigation can be found at:
<http://www.mrr.dot.state.mn.us/pavement/PvmtDesign/Documentation/soilsinv.pdf>

III. Provided By MnDOT

Information to be supplied by MnDOT for a project may include the following:

- A. Plans showing existing topography, proposed alignments, existing and proposed profiles, and locations of the existing and proposed structures.
- B. Information (plans) showing property ownership information for boring locations off of State Right-of-Way.
- C. American Society for Testing and Materials (ASTM), American Association of State Highway & Transportation Officials (AASHTO), and MnDOT Manuals and Standard Specifications.

IV. Provided by Consultant

Deliverables to be supplied by the consultant for a project may include the following:

- A. Boring plan, soils profile, electronic boring log, field notes (if required), laboratory samples, and cross sections (if required). All work shall be performed to the extent necessary for the design of the most economical, uniform and stable roadway.
 - a. A copy of the driller’s field notes (if required).
 - b. Final boring logs in paper and electronic format using MnDOT’s “Soils Data Dictionary”.
 - c. Soil samples for laboratory testing when requested.
 - d. Weekly progress reports.
 - e. Minnesota Department of Health sealing records.

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Work Type Submittal Requirements

A consultant firm becomes pre-qualified based on the qualifications of the personnel that are employed by the firm and by meeting the demonstrated requirements.

Key Personnel Requirements	
Minimum Number of Staff:	<ul style="list-style-type: none"> At least one employee with the proper qualifying experience.
Professional Certification/Licensure:	<ul style="list-style-type: none"> Must be a Minnesota Department of Health (or equivalent) registered/licensed Monitoring Well Contractor.
Work Type Submittal Requirements*	
<p>I. Resume and Relevant Project Experience Form (Form PQ1)</p> <p><i>Submit in Word format</i></p>	<p>A. Complete Parts 1, 1A, 2 and 3 of Form PQ1</p> <p><u>Part 1:</u> Fill out general information and names of personnel</p> <p><u>Part 1A:</u> Qualified employee must have a minimum of 5 years experience in the activities required including visual classification of soils. While MnDOT requires the use of its Textural Classification System – experience in classifying soils using the Unified Soil Classification System will be acceptable as qualifying experience. Experience must be demonstrated by at least 2 completed projects (maximum of 5) from the last 10 years.</p> <p><u>Part 2:</u> Complete Part 2 according to requirements shown in “Project Example Requirements” below.</p> <p><u>Part 3:</u> Provide list of production staff sufficient to conduct testing.</p>
<p>II. Project Example Requirements</p> <p><i>Submit in PDF format</i></p>	<p>A. Submit one example of a project boring log using the MnDOT Textural Classification System.</p>
<p>III. Proof of Professional Certification/Licensure</p> <p><i>Submit in PDF format</i></p>	<p>A. Provide current copy of applicable Professional Certification/Licensure.</p>

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IV. Affidavit <i>Submit in PDF format</i>	A. Submit Affidavit for MnDOT's Electronic Boring Log Standards form.
*Work Type Submittal Instructions:	
Create a CD or flash drive that includes the following individual files or folders in this order:	
I. Resume and Relevant Project Experience Form (Form PQ1)	
II. Project Example Requirements (this should be a folder that includes individual files clearly named according to Part 2 of the PQ1)	
III. Proof of Professional Certification/Licensure	
IV. Affidavit	
Each file should be saved in the format identified above. Submit 5 copies of the CD or flash drive.	