

7.0 - Geotechnical Engineering Services Category

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General

This work type consists of providing geotechnical engineering, laboratory, and drilling and sampling services. All Geotechnical work shall be performed in accordance with the INDOT Geotechnical Manual, FHWA, AASHTO guidelines, generally accepted principles of sound engineering practice and all other pertinent state and federal regulations. For consideration as an approved laboratory the facility must demonstrate documented proficiency in all tests specified in the INDOT Geotechnical Manual. Requirements to be met for INDOT Office of Geotechnical Services approval can be found on the INDOT Office of Geotechnical Services website at <http://www.in.gov/indot/2804.htm>.

Requirements

- A. Prerequisite Work Type Approval:** No prior work type approval required.
- B. Qualifying Person(s):** The firm must have at least one (1) full time employee on staff that meets all of the requirements of each discipline (may be the same or different individuals for each discipline). A minimum of one (1) qualifying person and a maximum of three (3) will be allowed.
- C. Licensure:**
- 1. Engineering** - The qualifying person must be a professional engineer licensed in the State of Indiana.
 - 2. Laboratory** - The qualifying person must be a professional engineer licensed in the State of Indiana.
 - 3. Drilling** - The qualifying person must hold an Indiana Well Driller License.
- D. Certification:**
- 1. Engineering** - The qualifying person (or firm) shall be on the INDOT Office of Geotechnical Services Approved List.
 - 2. Laboratory** - The laboratory facility must have AASHTO Materials Reference Laboratory (AMRL) accreditation.
 - 3. Drilling** - The qualifying person (or firm) shall be approved by the INDOT Office of Geotechnical Services.
- E. Education:**
- 1. Engineering** - The qualifying person must have a bachelor's or a master's degree in Civil Engineering or Geotechnical Engineering.
 - 2. Laboratory** - The qualifying person must have a bachelor's or a master's degree in Civil Engineering or Geotechnical Engineering.

3. **Drilling** - The qualifying person must have a high school Diploma or equivalent.

F. Experience:

1. **Engineering –**

- a. The qualifying person must have a minimum of five (5) years or experience in geotechnical engineering with a bachelor’s degree in one of the fields listed in **E. Education** above or four (4) years of experience in geotechnical engineering with a master’s degree in one of the fields stated in **E. Education** above.
- b. The qualifying person must demonstrate experience in the following:
 - i. Deep foundations
 - ii. Shallow foundations
 - iii. Earthen structures and retaining walls
 - iv. Sampling and laboratory testing
 - v. Subsurface exploration

2. **Laboratory –** The qualifying person shall have a minimum of five (5) years of experience in soil and rock testing in accordance with AASHTO/ASTM.

3. **Drilling –**

- a. The qualifying person must have a minimum of three (3) years of experience in geotechnical drilling operations.
- b. The qualifying person must demonstrate experience in the following:
 - i. Geotechnical drilling operations
 - ii. Sampling
 - iii. Instrument installation
 - iv. Borehole logging

G. Submittal Requirements

1. A list of projects must be entered in the “Projects” section of the qualifying person’s information in the PSCS. All projects should include a brief description of the project, client, year of completion, and a detailed description of the individual’s responsibilities on the project as they relate to the work type experience requirements.
2. A Letter of Approval from INDOT Office of Geotechnical Services.
3. INDOT may require that the consultant provide additional supporting documents upon request.