

023200S01 - GEOTECHNICAL INVESTIGATIONS - Geotechnical Survey Standards

The purpose of this document is to establish general guidelines for the study of the soil structures on new building sites:

1. SUBMITTALS

1. Report:

1. A general site description including location with reference to existing structures, An approximate USGS geodetic coordinate and what is currently on the site.
2. A description of the general site geology as described in available geologic mapping.
3. A description of the scope of work including dates work was accomplished, type of equipment and methods used, and type of tests run.
4. General description of results of exploration. This should include field observations where pertinent. Any holes in which undisturbed samples were obtained shall be noted. Soil and rock descriptions shall be included.
5. The conclusions and recommendations for structural design.

2. Drawings

1. A boring layout at the scale provided by the Architect.
2. A log of the borings showing graphically the types of soil and their elevations at each hole.

2. FIELD TECHNIQUES

1. Cohesive soils shall have undisturbed samples taken by Shelby Tube. Non-cohesive soils shall require a standard penetration test.
2. If shallow rock is encountered a minimum of two of the holes will be bored to a sufficient depth to obtain ten continuous feet of sound unweathered rock.
3. Soil samples shall be obtained for each soil horizon in a quantity sufficient for lab identification.

3. TESTS

1. Sufficient tests to identify soil type including, but not limited to, sieve analysis, hydrometer analysis, and Atterburg Limits.
2. In cases where differential settlement is a concern a consolidation test shall be run.
3. For the purpose of fill material a Standard Proctor shall be run.
4. A California Bearing Ratio will be run if a parking area is to be on or near the site.