

Cone penetration test

Description

Investigations will identify and locate, both horizontally and vertically, significant soil types, ground water conditions, and establish the characteristics of the subsurface materials by in-situ testing. The methodology involved includes on-site investigations by performing Electronic Cone Penetration Tests.

Standards and specifications

All tasks will be performed in accordance with current ASTM, AASHTO, and, for highway construction projects MnDOT standards and specifications. All investigations will be conducted in accordance with current Minnesota Department of Health regulations. The current Specifications for Subsurface Investigation & Geotechnical Analysis and Design Recommendations can be found at <https://www.dot.state.mn.us/materials/foundationdocs/tcontract/consultdrillreport.pdf>

Provided by Hennepin County

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

- Plans showing existing topography, proposed alignments, and locations of the existing and proposed structures.
- Information (plans) showing property ownership information for boring locations off of state right-of-way.
- Bridge benchmark information for determining boring elevations.
- American Society for Testing and Materials (ASTM), American Association of State Highway & Transportation Officials (AASHTO), and MnDOT Standard Specifications.

Typical services

Project deliverables may include the following:

- Final Cone Penetration Test Investigation Report
 - Electronic data for data collection (.dat file) and final logs (.gpj file)

- Hard copy of final logs (.pdf)
- Weekly progress reports
- Minnesota Department of Health sealing records