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The cone penetration test (CPT) is a common in situ testing method used to determine the geotechnical engineering properties of soils and assessing subsurface stratigraphy. The testing apparatus consists of an instrumented still cone having a tip facing down, with an usual apex angle of 60° and cross-section area of 1000 mm².

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The cone penetration or cone penetrometer test (CPT) is a method used to determine the geotechnical engineering properties of soils and delineating soil stratigraphy. It was initially developed in the 1950s at the Dutch Laboratory for Soil Mechanics in Delft to investigate soft soils. Based on this history it has also been called the "Dutch cone test".

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Cone Penetration Testing. The modern electric piezocone penetrometer (CPTu) sets the standard for cone penetration tests and geoenvironmental soil characterization. Adding additional modules and sensors, the basic CPTu tool can be expanded to collect specialized geophysical, geotechnical, and geoenvironmental data in addition to the basic parameters.

NCHRP Project 20-05; Task 37-14: Synthesis on Cone Penetration Test (February 2007) Page 2 SUMMARY Cone penetration testing (CPT) is a fast and reliable means of conducting highway site investigations for exploring soils and soft ground for support of embankments, retaining walls, pavement subgrades, and bridge foundations.

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