

3 GEOTECHNICAL INVESTIGATION (SECTION 13501)

3.1 Part 1 General

3.1.1 Section Includes

- A. Sinking of boreholes and site testing of soils and rocks.
- B. Taking samples from boreholes and their laboratory testing.
- C. Falling head permeability tests on selected boreholes.
- D. Field well pumping tests.
- E. Measuring and monitoring ground water levels.
- F. Shallow pits subsurface assessment with sampling and testing.
- G. Submission of soil investigation report

3.1.2 References

AASHTO T 88 - 90 - Particle Size Analysis of Soils.

AASHTO T 89 - 90 - Determining the Liquid Limit of soils.

AASHTO T 90 - 97 - Determining the Plastic Limit and Plasticity Index of Soils.

AASHTO T 180 - 90 - Moisture - Density Relations of Soils using a 10lb (4.5kg) Rammer and an 18inch (457mm) Drop).

AASHTO T 203 - M82 - Soil Investigation and Sampling by Auger Boring.

AASHTO T 206 - 81 - Penetration Test and Split- Barrel Sampling of Soils.

AASHTO T 207 - 81 - Thin-Walled Tube sampling Of Soils.

AASHTO T 208 - 90. Unconfined Compressive Strength of Cohesive Soils.

AASHTO T 216 - 83 - One-Dimensional Consolidation Properties of Soils.

AASHTO T 223 - 76 - Field Vane Shear Test in Cohesive Soil.

AASHTO T 225 - 75 - Diamond Core Drilling for Site Investigation.

AASHTO T 226 - 80 - Tri-axial Compressive Strength of Un-drained Rock Core Specimen.

AASHTO T 235 - 74 - Bearing Capacity of Soil for Static Load on Spread Footings.

AASHTO T 251 - 77 - Soil Investigation and Sampling by Hollow- Stem Auger Borings.