

203-R-562 DYNAMIC CONE PENETROMETER TESTING FOR EMBANKMENT

(Revised 12-20-12)

The Standard Specifications are revised as follows:

SECTION 203, BEGIN LINE 835, DELETE AND INSERT AS FOLLOWS:

203.23 Embankment Other Than Rock and Shale, With Density Control

~~Unless otherwise specified, all embankments shall be compacted to at least 95% of their maximum dry density. The moisture content shall be controlled within -2 and +1 percentage points of optimum moisture content. Maximum density and optimum moisture content shall be determined in accordance with AASHTO T 99 using method A for soil and method C for granular materials.~~

SECTION 203, AFTER LINE 914, INSERT AS FOLLOWS:

203.24.1 Compaction Acceptance with DCP

The compaction will be determined by dynamic cone penetrometer, DCP, testing in accordance with ITM 509. The moisture content will be determined in accordance with ITM 506. The compaction procedures shall be in accordance with 203.23.

The Department will establish the criteria for DCP acceptance of compaction by performing the sieve analysis, liquid limit, plastic limit, organic content, and optimum moisture and maximum density testing in accordance with ASTM D 1140, AASHTO T 90, T 267, T 272 or T 99, respectively, on representative samples of the soils to be used. The required blow counts will be determined based on the laboratory tests.

The required moisture content shall be controlled within -3 percentage points and the optimum moisture content for silty and sandy soils, within -2 percentage points and +2 percentage points of the optimum moisture content for clay soils, and within -6 percentage points and the optimum moisture content for granular soils.

The maximum dry density and optimum moisture content for silty, sandy, and clay soils will be determined in accordance with AASHTO T 272. The maximum dry density and optimum moisture content for granular soils will be determined in accordance with AASHTO T 99.
