

217-R-812 SOILS DRYING WITH CHEMICAL MODIFIERS

(Adopted 11-19-25)

The Standard Specifications are revised as follows:

SECTION 217, BEGIN LINE 3, DELETE AND INSERT AS FOLLOWS:

217.01 Description

This work shall consist of drying soils by uniformly mixing ~~coal ash or~~ lime with soil to aid in achieving the workability of soils as shown on the plans or as directed.

MATERIALS

217.02 Materials

Materials shall be in accordance with the following:

Coal ash	901.02
Lime	913.04(b)
Water.....	913.01

~~Soils containing organic content greater than 6% by dry weight, or having a maximum dry density of less than 95 pcf, or with soluble sulfate content greater than 1,000 ppm, shall not be used. The maximum dry density shall be determined in accordance with AASHTO T 99, the organic content shall be determined in accordance with AASHTO T 267, and the sulfate content shall be determined in accordance with ITM 510.~~

Soils for drying shall meet the following requirements:

<i>Soil Property</i>	<i>Test Method</i>	<i>Requirement</i>
<i>Maximum Dry Density</i>	<i>AASHTO T 99</i>	$\geq 90 \text{ pcf}$
<i>Organic Material</i>	<i>AASHTO T 267</i>	$\leq 6\%$
<i>Sulfate Content</i>	<i>ITM 510</i>	$\leq 1,000 \text{ ppm}$

SECTION 217, BEGIN LINE 32, DELETE AS FOLLOWS:

Chemical modifier, mix design, test results, and the geotechnical consultant recommendations shall be submitted to the Engineer and to the Department's Geotechnical Engineering Division for approval at least three business days prior to use. ~~Coal ash and Lime shall be selected from the Department's QPLs of Pozzolan Sources and Soil Modifiers, respectively.~~

The quantity of chemical modifier may be adjusted for different soil types and moisture content.

SECTION 217, BEGIN LINE 78, DELETE AND INSERT AS FOLLOWS:

217.09 Compaction

The moisture content of the mixture shall be at the optimum moisture content or above the optimum moisture content as determined by the mix design in accordance with 2157.03. Moisture content will be determined in accordance with ITM 506. Aeration or drying by further mixing may be done to obtain the required moisture content. Compaction

of the mixture shall begin as soon as practical. Compaction shall be in accordance with 203 or 207.03, as applicable.

Acceptance of chemically modified soils will be performed on the finished grade with a DCP in accordance with ITM 509. The chemically treated soil lift shall meet the following requirements for compaction:

- (a) A minimum DCP blow count of 20 for 12 in. of in place modification.
- (b) A minimum of two passing DCP tests for each 1,000 lft or less of chemically treated soil for each two-lane pavement section.
- (c) A minimum of one gradation test shall be performed every 2,500 lft for each two-lane pavement section.
- (d) A minimum of one moisture test shall be performed for every 4 h of lime soils mixing. ~~A moisture test shall be performed if soil changes.~~
