

ALABAMA DEPARTMENT OF TRANSPORTATION

General Application Special Provision

DATE: October 27, 2022

GASP No. 22-GA0022

EFFECTIVE DATE: May 1, 2023

SUBJECT: Slabjacking of Portland Cement Concrete Pavement.

Alabama Standard Specifications, 2022 Edition, SECTION 452 shall be amended as follows:

SECTION 452 SLABJACKING OF PORTLAND CEMENT CONCRETE PAVEMENT

452.02 Materials.

(b) Grout.

Subarticle 452.02(b) shall be replaced by the following:

(b) Grout.

The grout used in slabjacking shall consist of one of the mixtures shown in Table I with the materials complying with the following:

Type I, III, IL, IP, or IS Cement - Section 815

Calcium Chloride - Section 805 Type I

Fly Ash - Section 806 Modified to waive the Loss on Ignition requirement

Water - Section 807

Admixtures - Sections 808 and 809

Limestone Dust - Limestone dust shall be thoroughly dry, free of lumps, meeting the following gradation requirements:

Size	% Passing by Weight {Mass}
No. 30 {600 μ m} Sieve	100
No. 100 {150 μ m} Sieve	90 - 100
No. 200 {75 μ m} Sieve	65 - 100

Fine Sand - Fine sand shall comply with the appropriate requirements of Section 802 allowing the use of manufactured sand from limestone, sandstone or granite, or natural silica fine sand meeting the following gradation requirements:

Size	% Passing by Weight {Mass}
No. 10 {2.00 mm} Sieve	95 - 100
No. 60 {250 μ m} Sieve	40 - 90
No. 200 {75 μ m} Sieve	0 - 50
Percent Silt	0 - 25
Percent Clay	0 - 12
Percent Organic Material	0 - 3

Sand shall be non-plastic as determined by AASHTO T 89 and T 90.

452.03 Construction Requirements.**(b) Jacking of Pavement Slabs.**

1. Weather Limitations.

Item 452.03(b)1 shall be replaced by the following:

1. Weather Limitations.

Unless approved otherwise by the Engineer in writing, all slabjacking shall be performed between the dates of April 1 and November 1.

Slabjacking operations may not be started unless the air temperature, in the shade and away from artificial heat, is at least 35 °F {2 °C} and rising. Slabjacking shall stop if the temperature is 40 °F {4 °C} and falling or when the subgrade contains an abnormal amount of moisture as evidenced by standing water on the pavement or in joints or cracks.

To accelerate setting and provide early strength to mixes utilizing Type I, Type IL, Type IP or Type IS cement, calcium chloride shall be used in the proportions tabulated below for respective temperature ranges.

Atmospheric Temperature	% Calcium Chloride by Weight {Mass} Of Type I, IL, IP or IS Cement
35 - 55 °F {2 - 12 °C}	5
56 - 69 °F {13 - 20 °C}	4
70 - 79 °F {21 - 26 °C}	3
80 - 89 °F {27 - 31 °C}	2
90 °F {32 °C} and above	1

When Type III cement is used, 0-2 % calcium chloride may be required as needed to accelerate setting in cold weather.