

## 417-R-710 COLD CENTRAL PLANT RECYCLING, CCPR

(Adopted 12-19-19)

The Standard Specifications are revised as follows:

SECTION 417, BEGIN LINE 25, DELETE AND INSERT AS FOLLOWS:

#### **417.03 Quality Control**

A quality control plan, QCP, shall be submitted to the Engineer a minimum of five calendar days prior to the JITT. The QCP shall include the proposed CCPR mix design, a start to finish process description to include discussion on corrective action measures, a list of proposed equipment, a list of proposed QC tests and testing frequencies, and the curing methods and procedures applied to the CCPR. All QC test results *and responses to test results* shall be maintained during the duration of the contract and made available to the Engineer upon request.

The following table provides the type and minimum frequency for tests:

QC testing	
Test	Frequency <sup>1,2</sup>
Depth of Laydown	1 per 500 ft
Pulverized Material Gradation	1 per 1,000 tons of production
Pulverized Material Moisture Content	1 per 500 tons of production
Asphalt Emulsion Content <sup>3</sup>	1 per 500 tons of production
Water Content <sup>3</sup>	1 per 500 tons of production
Compacted In-Place Field Density	1 per 1,000 ft
Field Moisture Content for Curing	1 per each day of production
<i>Optimum Field Density</i>	<i>1 per 2 days of production</i>

**Notes:**

1. The Contractor shall perform all QC tests within the first 500 ft after startup and after any change in the mix design.
2. Testing frequency is based upon either linear feet of CCPR laydown or tons of CCPR mixture processing.
3. Asphalt emulsion content and water content shall be taken from the readings of the control settings of the mixing unit.

SECTION 417, BEGIN LINE 267, INSERT AS FOLLOWS:

A rolling pattern that produces the maximum obtainable density, or optimum field density, shall be determined during the control strip *using a roller in accordance with 409.03(d)4*. The Contractor shall provide a sequence and manner of rolling by establishing a roller pass versus density chart that shows the progress of densification from initial lay down through optimum field density using a properly calibrated nuclear gauge in accordance to AASHTO T 310. Production may continue after approval of the control strip.

SECTION 417, BEGIN LINE 313, DELETE AND INSERT AS FOLLOWS:

#### **417.16 Curing**

Before placing the final surfacing, the recycled surface shall remain in-place for a minimum of three days and meet one of the following conditions:

(a) There is less than 3.0% moisture remaining in the mixture, or;

(b) The material has ~~remained in place~~ cured for a minimum of 10 consecutive days without rainfall.

The planned method and duration of curing for CCPR shall be in accordance with the QCP. The specified surface course shall be placed within two weeks of the CCPR final cure, but no later than November 1.

#### **417.17 Milling and Pavement Smoothness**

When the CCPR material is placed in a single lift, the entire surface of the CCPR shall be scarified in accordance with 306.04 to the ~~specified cross slope~~ in preparation for the overlay, *except liquidated damages will not apply*. Construction engineering in accordance with 105.08(b) shall be provided.

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