

*New Jersey Department of Transportation*  
1035 Parkway Avenue, PO Box 600, Trenton, New Jersey 08625-0600



## *Baseline Document Change Announcement*

**ANNOUNCEMENT: BDC12S-15**

**DATE: February 22, 2013**

**SUBJECT: Elimination of Sawcutting and Sealing**  
**- Revision to Subparts 203.03.01, 401.03.03, 401.03.04, 401.04, 402.03.02, 403.03.01, 902.02.04, 902.07.02 and 902.07.04 of the 2007 Standard Specifications for Road and Bridge Construction**

---

Subparts 203.03.01, 401.03.03, 401.03.04, 401.04, 402.03.02, 403.03.01, 902.02.04, 902.07.02 and 902.07.04 of the 2007 *Standard Specifications for Road and Bridge Construction* have been revised.

The details of the revisions are as follows:

- 203.03.01:** Limits the size of pavement breaking to 12” in all dimensions.
- 401.03.03 H:** Eliminates the requirement of including shoulders less than 6 feet in width in other lots.
- 401.03.04:** Deletes the Sawing & Sealing of Joints in HMA Overlay specifications.
- 401.04:** Deletes the Item “SAWING AND SEALING JOINTS IN HOT MIX ASPHALT OVERLAY”
- 402.03.02 E:** Limits the maximum laydown temperature of AR-OGFC to a 290 °F.
- 403.03.01 D:** Requires the use of an MTV for the construction of the Ultra-Thin Friction Course.
- 902.02.04 B:** Simplifies the sampling size requirement.
- 902.07.02 A:** Requires the producers to submit a quality control plan annually for the Department approval. Also, includes the requirements for the warm mix asphalt (WMA) additives or processes.
- 902.07.04 A:** Revises the temperatures requirements.

**The following revisions have been incorporated into the Standard Input SI2007 as of February 22, 2013.**

## **SECTION 203 – EMBANKMENT**

### **203.03.01 Constructing Embankment**

THE FOURTH PARAGRAPH IS CHANGED TO:

Before placing embankment or any other unbound aggregate material, such as subbase or dense graded aggregate, on existing pavement, break the pavement into pieces that are a maximum of 12 inches in all dimensions.

## **SECTION 401 – HOT MIX ASPHALT (HMA) COURSES**

### **401.03.03 HMA Courses**

H. **Air Void Requirements.**

THE FOLLOWING IS ADDED TO THE THIRD PARAGRAPH:

Inside shoulders less than 6 feet in width will not be included in other lots unless requested by the RE.

### **401.03.04 Sawcutting and Sealing of Joints in HMA Overlays**

THE TEXT OF THIS SUBPART IS DELETED.

THIS SUBPART IS INTENTIONALLY LEFT BLANK

### **401.04 MEASUREMENT AND PAYMENT**

THE FOLLOWING ITEM IS DELETED:

<i>Item</i>	<i>Pay Unit</i>
SAWING AND SEALING JOINTS IN HOT MIX ASPHALT OVERLAY	LINEAR FOOT

## **SECTION 402 – HMA FRICTION COURSE**

### **402.03.02 AR-OGFC**

E. **Spreading and Grading.**

THIS ENTIRE PART AS IT APPEARS IN THE SI IS CHANGED TO:

Apply tack coat 64-22 as specified in 401.03.02. Place AR-OGFC at a laydown temperature not to exceed a maximum of 290 °F. Spread and grade AR-OGFC as specified in 401.03.03.E, except do not apply polymerized joint adhesive or tack coat to longitudinal joints.

## **SECTION 403 – ULTRA-THIN FRICTION COURSE**

### **403.03.01 Ultra-Thin Friction Course**

D. **Transportation and Delivery of HMA.**

THIS ENTIRE PART IS CHANGED TO:

Transport and deliver HMA as specified in 401.03.03.D. Use of an MTV is required for the construction of the ultra-thin friction course.

## SECTION 902 – ASPHALT

### 902.02.04 Sampling and Testing

#### B. Sampling.

THIS ENTIRE PART IS CHANGED TO:

The ME will take a random sample from each 700 tons of production for volumetric acceptance testing and to verify composition.. The ME will perform sampling according to AASHTO T 168, NJDOT B-2, or ASTM D 3665.

### 902.07.02 Asphalt-Rubber Binder

#### A. Materials.

##### 2. Asphalt Binder.

THE ENTIRE PART AS IT APPEARS IN THE SI IS CHANGED TO:

- a. Use asphalt binder that conforms to AASHTO M 320, Table 1; PG 64-22, PG 58-28 or an approved blend of both grades. The asphalt binder producer is required to provide the asphalt binder quality control plan annually to the ME for approval. Ensure that the quality control plan conforms to AASHTO R 26. Submit to the ME a certification of compliance, as specified in 106.07, for the asphalt binder. The ME will perform quality assurance sampling and testing of each asphalt binder lot as defined in the approved quality control plan.
- b. Use one or more of the following types of warm mix asphalt (WMA) additives or processes:
  1. Organic additives such as a paraffin wax or a low molecular weight esterified wax.
  2. Chemical additive that acts as a surfactant or dispersing agent.

Do not use controlled asphalt foaming systems or any other steam injection processes or steam introducing additives. WMA is a method of producing asphalt pavement at a mixing and compaction temperatures at least 30 °F lower than Hot Mix Asphalt (HMA) by using one or more of the types of WMA additives listed above. Submit information on the WMA additive or process with the Paving Plan required in 402.03.02.A. Include in the submission, the name and description of the additive or process, the manufacturer's recommendations for usage of the additive or process, recommendations for mixing and compaction temperatures, and details on at least one project on which the additive was successfully used in the United States on a crumb rubber modified asphalt mixture. In the details of a project, include tonnage, type of mix, dosage, mixing and compaction temperatures, available test results, and contact information for project. If a WMA additive is pre-blended in the asphalt binder, ensure that the asphalt binder meets the requirements of the specified grade after the addition of the WMA additive. If a WMA additive is added at the HMA plant, ensure that the addition of the additive will not negatively impact the grade of asphalt binder. The ME will evaluate the impacts to performance grade of the asphalt binder based upon certification from manufacturer in conjunction with laboratory data indicating the effects of the additive on the asphalt binder properties. Follow the manufacturer's recommendations for the dosage of WMA additive needed and approved blending method(s).

Ensure that a technical representative of the WMA additive manufacturer is on-site or available for consultation during the production and placement of the AR-OGFC with the warm mix additive.

### 902.07.04 Sampling and Testing

#### A. General Acceptance Requirements.

THE SECOND PARAGRAPH AS IT APPEARS IN THE SI IS CHANGED TO:

For AR-OGFC with WMA additive, ensure that the temperature of the mixture at discharge from the plant or surge and storage bins meets the WMA additive manufacturer's recommendations. Do not allow the mixture temperature to exceed 300 °F at discharge from the plant.

**Implementation Code R (ROUTINE)**

Changes must be implemented in all applicable Department projects scheduled for Final Design Submission at least one month after the date of the BDC announcement. This will allow designers to make necessary plan, specifications, and estimate/proposal changes without requiring the need for an addenda or postponement of advertisement or receipt of bids.

**Recommended By:**

ORIGINAL SIGNED

---

Richard Jaffe  
Acting Director,  
Capital Program Support

**Approved By:**

ORIGINAL SIGNED

---

Richard T. Hammer  
Assistant Commissioner,  
Capital Program Management

RJ: KS: HP  
☐ BDC12S-15.doc