

ROAD COMMISSION FOR OAKLAND COUNTY

SPECIAL PROVISION  
FOR  
**RECYCLED HOT MIX ASPHALT MIXTURES**

RCOC/DESIGN:JJ/SH

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RCOC20SP501D

ORG:03-20-21

FHWA:04-20-21

**a. Description**

This work shall be done in accordance with section 501 of the *Michigan Department of Transportation (MDOT) 2020 Standard Specifications for Construction*, except as follows.

**b. Materials**

Subsection 501.02.A.2 of the *MDOT 2020 Standard Specifications for Construction* is hereby supplemented with the following:

**1. Reclaimed Asphalt Pavement (RAP) and Binder Grade Selection**

The method for determining the binder grade in HMA mixtures incorporating RAP is divided into two categories, designated Tier 1 and Tier 2. Each tier has a range of percentages that represent the contribution of the RAP binder toward the total binder, by weight. HMA mixtures containing RAP binder by weight equal to or exceeding 28% of the total binder in the mix will be rejected.

The tiers identified below apply to all HMA mixtures with the following exception: When polymer modified performance grade (PG) binders are specified, the maximum allowed RAP binder by weight of the total binder of the mixture is 17 percent. Polymer modified performance grade binders are identified by the suffix "P" at the end of a grade. For example, PG 64-28(P), or PG 70-22(P) must each be limited to a maximum of 17 percent RAP binder by weight of the total binder in the mixture. When a polymer modified asphalt binder is specified, a binder grade adjustment is not allowed.

**A. Tier 1 (0% to 17% RAP binder by weight of the total binder in the mixture)**

No binder grade adjustment is made to compensate for the stiffness of the asphalt binder in RAP.

**B. Tier 2 (18% to 27% Rap binder by weight of the total binder in the mixture)**

The required asphalt binder grade must be at least one grade lower for the low temperature than the design binder grade required for the specified project mixture type. Lowering the high temperature of the binder one grade is optional. For example, if the design binder grade for the mixture type is PG 58-22, the required grade for the binder in the HMA mixture containing RAP would be PG 52-28 or PG 58-28.

**c. Construction**

All work must be in accordance with the contract documents.

**d. Measurement and Payment**

The above items will not be paid for separately and are considered included in the contract unit price for the standard HMA pay items shown on the plans