

2000100 ROCK BASE
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

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Comments: (11-26-14)

As far Reclaimed Concrete Aggregate (RCA) is concerned – is FHWA still insisting that it not be used on Interstate projects? Will they allow its use on a case by case basis and can we state as such in the specification?

Response: FHWA is still restricting the use of RCA on Interstates.
No changes made.

Emmanuel Uwaibi
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Comments: (12-2-14)

It may be easier for implementation purposes to spell out the calculations for determining average thickness under 200-9.2 without referencing spec. 285-7.

Response: Agree, change will be made as shown below:

▪ **200-9 Calculations for Average Thickness of Base.**
→ ~~200-9.1 Existing Rock:~~ For bases that are not mixed in place, the Engineer will determine the average thickness from the measurements specified in 200-10.1, calculated as follows:
→ (a) When the measured thickness is more than 1/2 inch greater than the design thickness shown on the typical cross-section in the Plans, it will be considered as the design thickness plus 1/2 inch.
→ (b) Average thickness will be calculated per typical cross-section for the entire job as a unit.
→ (c) Any areas of base left in place with no payment will not be included in the calculations.
→ (d) Where it is not possible through borings to distinguish the base materials from the underlying materials, the thickness of the base used in the measurement will be the design thickness.
→ ~~200-9.2 Reclaimed Concrete Aggregate (RCA) Base: Calculations for determining the average thickness of base will be made in accordance with 285-7.~~

Changes made.

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Comments: (12-3-14)

The intent of the changes are to consolidate the various materials Specifications. I don't have any concerns with the reorganization and consolidation. These are Specs Juan may be more familiar

with and may have additional comments, but from my perspective it appears like a consolidation of several Specs and that should be welcomed (provided the consolidation doesn't create more problems than leaving them separate).

I have some minor editing changes.

1. **200-8:** Delete the word "that" in the last sentence.

▪ **200-8 Priming and Maintaining.**
→ **200-8.1 Priming:** Apply the prime coat only when the base meets the specified density requirements and when the moisture content in the top half of the base does not exceed the optimum moisture of the base material. At the time of priming, ensure that the base is firm, unyielding and in such condition that no undue distortion will occur. *Ensure that the prime coat adheres to the base course.*
→ **200-8.2 Maintaining:** Maintain the true crown and template, with no rutting or other distortion, while applying the surface course.

Response: Agree. Change will be made.
Change made.

2. The language in 200-9.1 items (a) through (d) is the same as the language that 200-9.2 refers you to in 285-7. Why reference a different Spec Section for RCA in 285-7, when the same language is noted directly above in the same Spec Section? Maybe I'm missing something.

▪ **200-9 Calculations for Average Thickness of Base.**
→ **200-9.1 Existing Rock:** For bases that are not mixed in place, the Engineer will determine the average thickness from the measurements specified in 200-10.1, calculated as follows:
→ (a) When the measured thickness is more than 1/2 inch greater than the design thickness shown on the typical cross-section in the Plans, it will be considered as the design thickness plus 1/2 inch.
→ (b) Average thickness will be calculated per typical cross-section for the entire job as a unit.
→ (c) Any areas of base left in place with no payment will not be included in the calculations.
→ (d) Where it is not possible through borings to distinguish the base materials from the underlying materials, the thickness of the base used in the measurement will be the design thickness.
→ **200-9.2 Reclaimed Concrete Aggregate (RCA) Base:** Calculations for determining the average thickness of base will be made in accordance with 285-7. [dit]

▪ **285-7 Calculation of Average Thickness of Base.**
→ For bases that are not mixed in place, the Engineer will determine the average thickness from the measurements specified in 285-6.1, calculated as follows:
→ (a) When the measured thickness is more than 1/2 inch greater than the design thickness shown on the typical cross-section in the Plans, it will be considered as the design thickness plus 1/2 inch.
→ (b) Average thickness will be calculated per typical cross-section for the entire job as a unit.
→ (c) Any areas of base left in place with no payment will not be included in the calculations.
→ (d) Where it is not possible through borings to distinguish the base materials from the underlying materials, the thickness of the base used in the measurement will be the design thickness.
→ (e) For Superpave asphalt base course, the average spread rate of each course shall be constructed in compliance with 234-8.

Response: Agree. Please see response to Uwaibi comment above.

3. While not a change in the current modifications, Section 200-10.2 references Section 200-9. Section 285-7 (see above) has the same language as 200-9.1 (a) through (d). Is there a way to consolidate the same language? In my opinion you either consolidate it into one Section or you have the language in each Section rather than reference other Sections as in the bulleted point above.

→ **200-10.2 Authorized Normal Thickness Base:** ~~For existing base, the surface area of authorized normal thickness base to be adjusted will be the plan quantity as specified above, and for RCA, the surface area of authorized normal thickness base will be calculated as specified in 9-1.3,~~ omitting any areas not allowed for payment under the provisions of 200-6.3 and omitting areas which are to be included for payment under 200-10.3. The adjustment shall be made by adding or deducting, as appropriate, the area of base represented by the difference between the calculated average thickness, determined as provided in 200-9, and the specified normal thickness, converted to equivalent square yards of normal thickness base.

Response: Agree. Change will be made as shown below:

• **200-10 Method of Measurement.**
→ **200-10.1 General:**
→ ~~200-10.1.1 Existing Rock:~~ The quantity to be paid for will be the plan quantity, adjusted as specified below.
→ ~~200-10.1.2 Reclaimed Concrete Aggregate Base:~~ The quantity to be paid for will be the area, in square yards, completed and accepted.
→ **200-10.2 Authorized Normal Thickness Base:** ~~For existing base, the surface area of authorized normal thickness base to be adjusted will be the plan quantity as specified above, and for RCA, the surface area of authorized normal thickness base will be calculated as specified in 9-1.3,~~ omitting any areas not allowed for payment under the provisions of 200-6.3 and omitting areas which are to be included for payment under 200-10.3. The adjustment shall be made by adding or deducting, as appropriate, the area of base represented by the difference between the calculated average thickness, determined as provided in 200-9, and the specified normal thickness, converted to equivalent square yards of normal thickness base.
→ **200-10.3 Authorized Variable Thickness Base:** Where the base is constructed to a compacted thickness other than the normal thickness as shown on the typical section in the Plans, as specified in the Plans or ordered by the Engineer for providing additional depths at culverts or bridges, or for providing transitions to connecting pavements, the volume of such authorized variable thickness compacted base will be calculated from authorized lines and grades, or by other methods selected by the Engineer, converted to equivalent square yards of normal thickness base for payment.

Changes made.
