

MATERIALS DIVISION

MEMORANDUM

GENERAL SUBJECT: Revisions to Materials Manual of Instructions		NUMBER: MD 319-09
SPECIFIC SUBJECT: Revisions to Sampling of Rebar, Couplers and Supports for Reinforcing Steel		DATE: June 3, 2009
DIRECTED TO: District Administrators	SIGNATURE: Charles A. Babish, PE State Materials Engineer	

This memorandum is being issued to revise the Materials Division Manual of Instructions, Section 204.32(e). Changes to Section 204.32(e) decrease the sampling of rebar from two bars of the most common size per manufacturer per structure to two bars for the predominant size per manufacturer per project. A new section on rebar couplers was added as Section 204.32(e)3 and a new paragraph 4 in Section 204.32(e)7 (new number 8) to address bar supports not sinking into the drainage layer.

Amend Section 204.32(e)1., paragraph 4 as follows:

A Monitor sample will be taken by the project inspector with the contractor's assistance consisting of two specimens, 24 inches (0.6 m) in length, of a selected size per ~~structure~~project. The bar size selected will be the predominant size, epoxy coated (if available), utilized on all ~~structures~~projects containing 5000 lbs. (2500 kg) or more, ~~except that for projects containing multiple structures, different sizes will be selected, when possible, from each structure.~~ Bars must be cut, not burned through. The two pieces from each bar shall be fastened together securely, and a sample card (TL-10) attached to each pair of bars, which constitutes a sample. Each sample of steel reinforcing bar shall be marked, in accordance with Section 203, using TL-10, as outlined in Section 800. Samples shall be submitted to the Central Office Laboratory, unless the District Laboratory is equipped to perform the test. Epoxy coated bars will be tested for thickness of the epoxy coating, and the bond of the epoxy, in addition to other tests performed on the reinforcing steel. *Failures will result in increased testing frequencies as deemed necessary by Central Office Materials.*

Add a new steel type as Section 204.32(e)3 and renumber subsequent sections accordingly. Add a new paragraph 4 in Section 204.32(e)7 (new number 8)

(3) Couplers

The project inspector with the contractor’s assistance will take one monitor sample consisting of each size bar per manufacturer per project with the coupler installed by the contractor in the field. The overall length of assembly should be at least 4 feet with the coupler being in the center of the assembly. Each sample shall be marked, in accordance with Section 203, using TL-10, as outlined in Section 800. Samples shall be submitted to the Central Office Laboratory for acceptance testing.

(34) Bar Mat

(45) Spiral Wire

(56) Structural Steel

(67) Welded Wire Fabric

(78) Supports for Reinforcing Steel

Add a new paragraph number 4 in Section 204.32(e) (new section number 8) as follows:

In Continuously Reinforced Concrete Pavements (CRCP), the contractor shall choose supports that will not sink into the drainage layer. Support shall also be able to support reinforcing steel without deflecting and shall be able to maintain proper position of reinforcing steel according to the plans. The Project Inspector shall submit a sample of the support system along with material certification to Central Office Materials Division/Pavement Design Section for approval.

(89) Rust

(910) Verifying Quantity

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| cy: Commissioner
Chief Engineer
Chief of Operations
Division Administrators
Residency Administrators
District Materials Engineers
District Construction Engineers
District Maintenance Engineers
Area Construction Engineers
Virginia Asphalt Association | Virginia Transportation Research Council
Virginia Ready-Mixed Concrete Association
Precast Concrete Association of Virginia
Virginia Transportation Construction Alliance
Virginia Dept. of Minority Business Enterprise
Federal Highway Administration
American Concrete Paving Association
NE Chapter, Southern Region
Old Dominion Highway Contractors
Association |
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