

**KANSAS DEPARTMENT OF TRANSPORTATION
SPECIAL PROVISION TO THE
STANDARD SPECIFICATIONS, EDITION 2007**

SECTION 154

CONCRETE PAVEMENT AND CONCRETE STRUCTURE EQUIPMENT

Page 150-8, add subsection 154.1g

g. Continuous Blending Concrete Plants. Use a plant that continuously blends materials by volume in a continuous mixer.

Additional requirements for continuous blending concrete plants:

- The capability of producing a thoroughly mixed uniform concrete that complies with the consistency requirements of **SECTION 401**;
- A recording meter capable of measuring the cement and aggregate as they are introduced into the mixture.
- A flowmeter to measure the rate of water added to the mixture. The rate shall be adjustable to control consistency of the mix.
- A flowmeter to measure the rate of admixture added to the mixture.
- The capability of being calibrated to automatically proportion and blend all components of the concrete mixture on a continuous or intermittent basis, as required.

Calibrate the continuous blending concrete plant according to the manufacturer's recommendations. Provide the Engineer with the means to verify the calibration of the continuous blending concrete plant. Provide the engineer with documentation from the admixture supplier on the compatibility of adding the admixture in a continuous blending concrete plant.

The Engineer will allow operation of the continuous volumetric concrete mixer, provided the concrete produced is within the limits of the specifications.

Page 150-9, delete subsection 154.4a. and replace with the following:

a. Concrete Spreader. Use equipment to uniformly spread the concrete while maintaining a head of concrete.

The Engineer may waive the use of a self-propelled concrete spreader in areas of narrow or irregular dimensions.

Page 150-10, delete subsection 154.5 and replace with the following:

154.5 SLIP FORM PAVING EQUIPMENT

Use standard manufacture, slip form paving equipment capable of spreading, consolidating, screeding and float finishing freshly placed concrete in one pass. Use slip form equipment capable of producing a homogeneous pavement to the specified cross-section, profile and density.

Use slip form paving equipment that is automatically controlled (from a reference system) in regard to line and grade.

Use an automated electronic vibrator monitoring system on all mainline paving. (This system is not required on shoulders, if a separate paver is used strictly for shoulders.) Use a system capable of displaying the operating frequency of each individual internal vibrator. Equip the monitoring device with a readout display near the operator's controls visible to the paver operator and the inspector. Operate the monitoring device continuously while paving, and display all vibrator frequencies with manual or automatic sequencing among all individual vibrators.

If the electronic monitoring system fails to operate properly, manually check the vibrators, immediately. If the vibrators are functioning properly, paving may continue but make all efforts to correct the problem within 3 paving days. The Engineer may allow additional time if circumstances are beyond the Contractor's control.

Use slip form paving equipment equipped with traveling side forms. The traveling side forms shall trail behind the paver a sufficient distance to prevent edge slump of the concrete pavement. The top finishing edge of the traveling side forms shall have a maximum radius of $\frac{1}{4}$ inch.

Use all the component parts recommended by the manufacturer of the slip form paving equipment (paving train).

If any unit of the paving train shall operate on adjacent pavement, protect the adjacent pavement.

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