



INDIANA DEPARTMENT OF TRANSPORTATION  
100 North Senate Avenue  
Room N758  
Indianapolis, Indiana 46204-2216  
(317) 232-5533 FAX: (317) 232-0238  
An Equal Opportunity Employer • [http:// www.in.gov/dot](http://www.in.gov/dot)

*Driving Indiana's Economic Growth*

MITCHELL E. DANIELS, JR., Governor  
THOMAS O. SHARP, Commissioner

Writer's Direct Line  
317-232-5456

June 26, 2006

**CONSTRUCTION MEMORANDUM**  
**06-19**

TO: District Directors  
District Highway Operation Directors  
District Construction Engineers  
District Testing Engineers  
District Area Engineers  
Project Engineers/Supervisors

FROM: Mark A. Miller, Director *Mark Miller*  
Division of Construction Management

RE: Clarification of Requirements for Concrete Mix Designs

This memo is intended to clarify issues related to Construction Memorandum 06-03.

The requirements of sections 502.03, 506.03 and 506.05 were waived for various miscellaneous uses of concrete as outlined in Construction Memorandum 06-03. Please be advised that a concrete mix design (CMD) is still required to be submitted and approved prior to use for those miscellaneous items. However, the submittal should be made directly to the Project Engineer/Supervisor (PE/S) for approval and not to the District Testing Engineer. The use of a Department provided form is not required.

These guidelines will be effective for all contracts starting immediately. Attached is a revised special provision that will be placed in contracts to specify these changes. For those contracts already let, the attached special provision will be incorporated by executing a no cost change order.

MAM:rlh

attachment

## CONCRETE MIX DESIGNS

The Standard Specifications are revised as follows:

SECTION 305, BEGIN LINE 19, INSERT AS FOLLOWS:

**305.03 New PCC Base**

Construction of new PCC bases shall be in accordance with 502, except for 502.14, and 502.20. *The CMDS shall be in accordance with 502.03 except utilization of the Department provided spreadsheet is not required.* The surface shall be finished with wet burlap or by wood floats. Smoothness of the base will be controlled with a 16 ft (4.9 m) long straightedge longitudinally and a 10 ft (3 m) long straightedge transversely.

SECTION 305, BEGIN LINE 119, DELETE AND INSERT AS FOLLOWS:

Materials and construction requirements shall be in accordance with the applicable requirements of 502, except the following:

- (a) coarse aggregate shall be Class A or higher;
- (b) joints shall be sawed in one pass and not sealed. Transverse joints constructed in the widening shall be aligned with existing transverse joints or cracks;
- (c) tining is not required;
- (d) shoulder corrugations are not required; ~~and~~
- (e) pavement smoothness shall be controlled by a 16 ft (4.9 m) straightedge; *and*
- (f) *utilization of the Department provided spreadsheet is not required.*

SECTION 502, BEGIN LINE 21, DELETE AND INSERT AS FOLLOWS:

**502.03 Concrete Mix Design**

A concrete mix design submittal, CMDS, shall be in accordance with 502.04. The CMDS shall be submitted one week prior to production and approved by the DMTE Engineer. The

SECTION 506, BEGIN LINE 113, INSERT AS FOLLOWS:

*A trial batch will not be required when the total quantity of partial depth patching or full depth patching will require less than 10 cyd (8 m<sup>3</sup>) of material per contract.*

SECTION 605, BEGIN LNE 61, DELETE AND INSERT AS FOLLOWS:

**(c) Proportioning and Placing**

Concrete shall be proportioned, mixed, and placed in accordance with 502, *except utilization of the Department provided spreadsheet is not required for the CMDS.* Where integral curb and gutter is specified, that portion of the curb below the upper surface elevation of the adjoining pavement shall be constructed by extending the pavement to the outer vertical plane of the curb at the time the pavement is placed. The concrete used in this extension shall be the same composition as that of the pavement.

SECTION 610, BEGIN LINE 30, INSERT AS FOLLOWS:

Dense graded subbase shall be constructed in accordance with 302. PCCP for approaches shall be constructed in accordance with 502. *The CMDS shall be submitted to the Engineer for approval. Utilization of the Department provided spreadsheet is not required.*

SECTION 715, BEGIN LINE 362, INSERT AS FOLLOWS:

The pavement replacement areas in Portland Cement Concrete pavements shall be filled with PCCP in accordance with 502 *except utilization of the Department provided spreadsheet is not required for the CMDS.*

SECTION 801, BEGIN LINE 500, INSERT AS FOLLOWS:

Temporary crossovers shall be either type A or type B as shown on the plans and shall be constructed in accordance with the applicable sections of 207, 402 or 502. *If applicable, a CMDS shall be submitted to the Engineer for approval. Utilization of the Department provided spreadsheet is not required.* When required to maintain median drainage, a 15 in. (375 mm) diameter pipe shall be placed at the centerline of the median under the crossover. If the crossover is to remain in place for future construction, the pipe shall have appropriate grated box ends in accordance with 715.

SECTION 805, BEGIN LINE 252, DELETE AND INSERT AS FOLLOWS:

A minimum of 12 in. (300 mm) and a maximum of 18 in. (450 mm) of loop wire duct will be permitted in the detector housing for each loop lead. Concrete used in the installation of detector housings shall be in accordance with 506, except *506.05 will not apply. A CMDS in accordance with 502.03 shall be submitted, however, utilization of the Department provided spreadsheet is not required.* ~~where~~ *Where* a portion of the road is closed or where there is no vehicular traffic, then class A concrete in accordance with 702 may be used. The concrete shall be placed flush with existing surface and shall be covered with a steel plate during the setting time.

---