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## MEMORANDUM

Capital Projects Department

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Date: January 7, 2008  
To: ACHD's Design Consultants  
From: L. Kent Brown, P.E.  
Subject: MMFX Steel Dowel Bars & Tie Bars  
Attachment: Special Provision for MMFX

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As a result of reviewing research done by the College of Engineering at the University of Kentucky, the Pavement Research Center at the University of California Berkley, the University of California Davis, and consulting with ITD, ACHD will no longer use epoxy coated dowel bars and tie bars in our concrete pavements including concrete intersections.

ACHD will utilize MMFX 2 Steel in these applications. Please refer to the enclosed special provision for the specification on dowels.

Cc: Colin Farr, Sally Goodell, Dorrell Hansen, ACHD Project Manager's, Central Files

## MMFX Steel Dowel Bars & Tie Bars

MMFX 2 pavement dowel bars shall conform to the following:

1. Steel pavement dowel bars shall be manufactured of MMFX 2 Steel, as applied by MMFX Steel Corporation. Steel pavement dowels shall conform to the ASTM A1035 specification for chemical and mechanical requirements.
2. MMFX 2 steel pavement dowel bars shall be 18-inches in length and [1.25] [1.5] inches in diameter. For dimensional tolerances, MMFX dowel bars shall conform to ASTM A29 table A1.1 or A2.1.
3. The surface of the finished cut to length MMFX2 dowels shall be provided with a hot-rolled, as-rolled finish including mill scale.
4. The contractor shall furnish a Manufacturer's Certificate of Compliance including mill test report verifying conformance to the aforementioned specifications.
5. For tie bars #5 MMFX 2 reinforcement bars 30" in length will be specified.