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DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
INTRADEPARTMENTAL CORRESPONDENCE

IN REPLY REFER TO
FILE NO.

March 8, 2000

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Memorandum to:

Mr. Kent Israel
Road Design Engineer

Subject: Bridge Replacement Projects

Attached is design guidance developed by the Geometric Unit for your use in developing future bridge replacement projects. Hopefully this guidance will eliminate ambiguous designs, promote consistency among designs and reduce delays in the plan development process.

Please ensure this guidance is followed and given to consultants working on bridge replacement projects.

Nick Kalivoda III
Traffic & Geometric Design Engineer

NKIII

Attachment

C: Roddy Dillon
Bob Boagni
Wayne Aymond

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March 2, 2000

Design Guidance for Bridge Replacement Projects (Developed by Geometric Design)

A) On Existing Alignment

1. Vertical curves at either end of the project will be designed to meet appropriate k values for the design speed. In rural areas vertical curves will not be lengthened to the minimum 300' used in new construction unless the curve occurs within the limits of reconstructed roadway and will require no additional R/W.
2. Horizontal curves at either end of the project will remain unless there is an unsatisfactory safety record. Horizontal curves within the limits of reconstructed roadway will be flattened to minimum standards or as much as possible within existing right of way. Where right of way is already being acquired, flattening to new design standards will be evaluated to determine if impacts from the flattening are reasonable.

B) On New Alignment

Vertical and horizontal curves will be designed in accordance with new standards. Curves at each end of the new alignment will be designed according to existing alignment criteria.