

Design Standards Letter

Letter Number: **D-1993-10**

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Section/Plan No.: **D4-04, D4-07**

Subject: **Metric Design Manual Sections 4-04 and 4-07 - Metric Typical Sections**

Body

Please find enclosed copies of Section M4-04 and M4-07 of the New Metric Policy, Procedure and Design Manual.

This new metric manual includes both hard and soft conversions to metric units based upon AASHTO guidelines and the general industry trends as currently available at the time of printing.

Our Metric Conversion Team has adopted the policy of placing an "M", to denote metric, in the title block before each section, drawing, or figure number. An "M" is not placed before the section, figure number., etc. in the text part of the manual.

To avoid confusion we are maintaining the same format and numbering system as the existing manual.

SECTION M4-04 BASIC DESIGN CRITERIA

The numerical values have been converted to metric units.

Subsection 4-04.3(1) The definition of a curve has been changed to radius definition. Degree of curvature will not be used.

Subsection 4-04.3(8) & (9) Stationing has been changed to kilometer stations.

Figure M4-04.1 & 1A has been changed to metric units. All references in the typical section part of this figure are made to new pavement design (NPD) typicals, which should be used in all metric projects.

Figures M4-04.4, M4-04.5, & M4-04.6 contain graphs that are not converted to metric units. If you need a value from these graphs, we recommend soft converting the English value.

SECTION M4-07 URBAN PROJECTS

The numerical values have been converted to metric units.

Figure M4-07.1 has been changed to metric units.

Figure M4-07.5 the table has been modified.

METRIC TYPICAL SECTIONS

The following typical sections have been converted to metric units.

M-D-52 M-D-61-NPD

M-D-68 M-D-63-NPD

M-D-69 M-D-64-NPD

M-D-50-NPD M-D-65-NPD

M-D-51-NPD M-D-66-NPD

M-D-53-NPD

As each standard drawing, section of the design manual or specification book, or typical section is converted to metric, we will be processing and sending them to the districts. This should provide a more efficient method of dispensing design information.

We are in the process of acquiring binders for the New Metric Policy, Procedure and Design Manuals. These should become available in late February, 1994. We suggest that the new metric sections be filed behind the corresponding English section in the existing manual until the new binders arrive.

During the transition period two sets of Design Manuals will be maintained, 1 English and 1 Metric. The english version will eventually be phased out as all design work will be in metric units.

tea/ddf

Attachments