

Design Standards Letter

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Section/Plan No.: D2-01, D4-03, D4-09, D6-05, D6-07, D9-02, D9-01

Subject: English and Metric Design Manual Revisions - Sections 2-01, 4-03, 4-09, 6-05, 6-07, and 9-02 and Figures 9-02.1 through 9-02.12 Figure 4-09.7 (English version only) - Section 9-01 and Figure 6-07.1 (Metric version only)

Body

Attached are copies of revisions to both the English and Metric versions of the Design Division's Policy, Procedure and Design Manual. Revision are as follows.

Contents, Volume I. Revision date changed to 2-6-95.

The revision dates for Sections 2-01, 4-03, and 4-09 have been changed to 2-6-95.

Table of Contents, Chapter II. Revision date changed to 2-6-95.

Subsection 2-01.2(4), Interchange Lighting, has been added and Subsection 2-01.11 has been subdivided into two sublevels.

Section 2-01, Conceptual Study. Revision date changed to 2-6-95.

Subsection 2-01.2 (4), Interchange Lighting, has been added. This subsection requires that basic lighting be provided along the major road at any interchange within the limits of a 3R or 4R project that meets the warrants given in Section 8-01. This will require that a revised HP-1 form be submitted for any affected project already on the program.

Under Subsection 2-01.2(4), Interchange Lighting, has been added. This subsection requires that basic lighting be provided along the major road at any interchange within the limits of a 3R or 4R project that meets the warrants given in Section 8-01. This will require that a revised HP-1 form be submitted for any affected project already on the program.

Under Subsection 2-01.11, paragraphs previously numbered 1. and 2. have been

redesignated as subsections (1) Location Study Report or Conceptual Plan Prepared by the District, and (2) Location Study Report or Conceptual Plan Prepared by the Design Division. The first sentence of each subsection was rewritten accordingly.

Under Subsection 2-01.12, the designer is referred to the Maintenance and Traffic Annual Accident Report.

Table of Contents, Chapter IV. Revision date changed to 2-6-95.

Several minor corrections have been made so that these contents match what is shown in the text.

Subsections 4-02.6 and 4-02.8 have each been subdivided into two subsections to match the existing text.

Subsection 4-03.9, Coordinate Points Sheet, has been added after subsection 4-03.8 and the remaining subsections have been renumbered.

Subsection 4-09.5 has had sublevels rearranged and renumbered.

Subsection 4-09.24, Geographic Reference System (GRS) Monuments, has been added.

Section 4-03, Plans-Specifications-Estimates. Revision date changed to 2-6-95.

Subsection 4-03.9, Coordinate Points Sheet, has been added. It should be thoroughly reviewed for the district's responsibilities.

The remaining subsections have been renumbered.

Section 4-09, Miscellaneous. Revision date changed to 2-6-95.

Subsection 4-09.5, Erosion Control, has been extensively revised. Instructions for the use of native plants and wildflowers were added, along with instructions for temporary erosion and sediment control.

Subsection 4-09.24, Geographic Reference System (GRS) Monuments, has been added. It should be thoroughly reviewed for the districts's responsibilities.

Figure 4-09.7, Guide for Seeding Mixture and Rate of Application. Revision date changed to 2-6-95.

The rates of application for rural areas in Region 1 and Region 2 have been revised. The Metric Version already had these rates incorporated.

Contents, Volume II. Revision date changed to 2-6-95.

The revision dates for Sections 6-05 and 6-07 have been changed to 2-6-95.

Table of Contents, Chapter VI. Revision date changed to 2-6-95.

Previous Subsections 6-07.1(1) through 6-07.1(11) have been redesignated as Subsections 6-07.2 through 6-07.12, respectively. Under the new Subsection 6-07.5 two subsections (1) and (2) have been shown.

Section 6-05 (3R/4R Projects). Revision date changed to 2-6-95.

Subsection 6-05.4, Pavement Repair, has been revised by adding instructions for estimating the quantities of subgrade compaction and aggregate for base.

Section 6-07, Bituminous Construction Materials. Revision date changed to 2-6-95.

Minor revisions have been made throughout this section, including redesignating the previous subsections. Major revisions are as follows.

Subsection 6-07.5 (previously 6-07.1(4)) has been revised by taking the last four sentences and making them a subsection (1) Automatic Screed Control or Established Grade Reference, and adding a new subsection (2) Test Strips which gives instructions for the use of bituminous test strips.

Subsections 6-07.9 (previously 6-07.1(8)) has been revised by adding instructions for the grade of aggregate to use for seal coat projects.

Subsection 6-07.10 (previously 6-07.1(9)) has been revised to give instructions for undersealing pavement.

Figure M6-07.1, Estimate Factors. Revision date changed to 2-6-95.

The unit of measurement has been changed from kilograms per cubic meter to megagrams per cubic meter. This is for the metric version only.

Contents, Volume III. Revision date changed to 2-6-95.

Revision date changed to 2-6-95 for Section 9-02. In the Metric Version, this is shown on the contents sheet listing Chapters V through IX and Section 9-01 has been listed with a revision date of 2-6-95.

Table of Contents, Chapter IX. Revision date changed to 2-6-95.

Section 9-02 contents have been revised to reflect the rewriting of this section.

Section M9-01, General. Revision date changed to 2-6-95.

This is the initial issue of this section and involves conversion only.

Section 9-02, Hydrologic Analyses. Revision date changed to 2-6-95.

This section has been extensively revised. It should be thoroughly reviewed for the department's current hydrologic analyses policy and the district's responsibilities and should be implemented upon receipt. A few districts compared results from this new version with those from the previous version and found only minor differences. Therefore, structures which have already been designed will not need to be redesigned using the new version. Structures which have not been previously designed should be designed using the new version.

Figures 9-02.1 through 9-02.12. Revision date changed to 2-6-95.

Existing figures 9-02.1 through 9-02.14 are to be discarded and are to be replaced by the enclosed Figures 9-02.1 through 9-02.12.

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Attachments.