

# Design Standards Letter

**Letter Number: D-1996-03**

**Letter Date: 03/18/1996**

**Effective Date: 03/18/1996**

**Section/Plan No.: D2-01, D2-06**

**Subject: Revisions to Section 2-01, Addition of Section 2-06**

## Body

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Enclosed are English and Metric revisions and additions to the Design Division's Policy, Procedure and Design Manual for the above noted sections, including some figures in these sections. Revisions are summarized as follows:

**Contents, Volume I.** Revision date changed to 3-18-96 for the Contents sheet and Section 2-01. Added Section 2-06 with new date of 3-18-96.

**Table of Contents, Chapter II.** Revision date changed to 3-18-96.

Subsections 2-01.7 through 2-01.11 were deleted from Section 2-01 and added to the new Section 2-06.

Subsection 2-01.12 was moved to 2-01.5.

Subsection 2-01.6 was added.

Figures 2-01.8 through 2-01.16 were moved to Section 2-06 and renumbered accordingly.

The remaining figures in Section 2-01 were renumbered accordingly.

A new Section 2-06 with figures has been added.

**Section 2-01, Conceptual Study.** Revision date changed to 3-18-96. The entire Section 2-01, excluding figures, was reformatted to a one column format and "Section 2-01" was added above the date. Section 2-01 has been extensively revised and should be reviewed thoroughly.

Subsection 2-01.2, Conceptual Study Letter, was modified to clarify the information required in the conceptual study letter. Revisions were also made to reflect changes in the approval and submittal process. A paragraph was added requesting an explanation if the current estimated cost differed from the programmed cost.

Subsection 2-01.3, 3R Conceptual Study Report, was modified to outline the new 3R report now required for all non-freeway 3R projects. Revisions were also made to reflect changes made in the approval and submittal process.

Subsection 2-01.4, 4R Pavement Rehabilitation Analysis and Conceptual Study Report, was modified to outline the new 4R report now required for all interstate and freeway 4R projects. Revisions were also made to reflect changes made in the approval and submittal process.

Subsection 2-01.5, Accident Rate Calculation (previously Subsection 2-01.12), has been renamed and now includes a reference to Supersession application TR50 for finding the average ADT.

Subsection 2-01.6, Basic Lighting (previously Subsection 2-01.2(4), Interchange Lighting), has been moved and renamed.

Subsection 2-01.7, Guardrail, is new and details end treatment procedure for 3R and 4R reports.

Subsection 2-01.8, Documentation of Design Exceptions (previously Subsection 2-016), has been considerably revised as needed to clarify the design exception process.

Although the subsection has changed extensively, it's important to note that the submittal process of design exceptions hasn't changed. Submittal to the Design Division for approval is still required.

Subsection 2-01.9, Conceptual Study Report Approval and Submittal, is new and explains the new approval and submittal process for conceptual study reports.

**Figures 2-01.9 through 2-01.16.** These current figures have been moved to the new Section 2-06.

In the past, figures which carried into multiple pages were given a new figure number for each page (ex: a figure which covered 3 pages might be called Figure 2-01.3, 2-01.4 and 2-01.5). Figure numbering has been reformatted so that any figure carrying over to multiple pages will now keep the same figure number, but now be denoted as Sheet 1 of 3, Sheet 2 of 3 and Sheet 3 of 3. Refer to Figure 2-01.1 of these revisions.

**Figure 2-01.1.** New date is 3-18-96.

This is a new figure which details information required for a conceptual study letter.

**Figure 2-01.2.** New date is 3-18-96.

This is a new figure which details information required for a 3R report.

**Figure 2-01.3 (previously Figure 2-01.5).** Revision date changed to 3-18-96.

The Roadway Geometrics and Average Daily Traffic headings were replaced with 10-Year Design ADT.

The minimum Vertical Clearance is 14' (4.3 m).

The accident history note was deleted due to duplication with the text. The existing guardrail note was moved to Figure 2-01.4(7). The mailbox installation note was revised and moved to Figure 2-01.4(5).

**Figure 2-01.4 (previously Figure 2-01.6).** Revision date changed to 3-18-96.

Footnotes were deleted and added as needed.

**Figure 2-01.5 (previously Figure 2-01.7).** Revision date changed to 3-18-96.

The minimum Vertical Clearance set to 14' (4.3 m). Footnote (4) deleted.

**Figure 2-01.6.** New date is 3-18-96.

This is a new figure which details information required for a 4R report.

**Figure 2-01.7 (previously Figure 2-01.17).** Revision date changed to 3-18-96.

A mathematical error in addition for the stationing between Coldwater Cr. and Rte. I-70 was corrected. All subsequent stationing was corrected.

The first log mile was corrected.

**Figure 2-01.8 (previously Figure 2-01.18).** Revision date changed to 3-18-96.

The first log mile was corrected.

**Figure 2-01.9.** New date is 3-81-96.

This figure contains information about BCT's that was deleted from Standard Plan 606.00. It is intended to give the designer knowledge of a standard BCT and is for informational purposes only.

**Figure 2-01.10 (previously Figure 2-01.1).** Revision date changed to 3-18-96.  
Multiple sheet format added.

County, Route, and Job No. blanks were added.

This figure has been extensively revised to remove duplications of information that is contained in the conceptual reports.

Combined the Design Stages' Preliminary Strip Map and Final Strip Map into Preliminary Plan.

**Section 2-06, Location Study/Environmental Report.** New date is 3-18-96.

This is a new section outlining the department's policy on prelocation study meetings, preparing and handling location study/environmental documents, and the Farmland Protection Policy Act.

Since this is a new section, review thoroughly.

**Figure 2-06.1 (previously Figure 2-01.8).** Revision date changed to 3-18-96.  
Multiple sheet format added.

Many parts of this figure have been added.

**Figures 2-06.2 through 2-06.9 (previously Figures 2-01.9 through 2-01.16).**  
Revision date changed to 3-18-96.

These figures have been renumbered to reflect the move to Section 2-06.

**Special note:** Figures 2-01.1, 2-01.2, 2-01.6, 2-01.10 and 2-06.1 will be available to designers in Design Forms in the Design Forms Folder.

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