Detailing Contract Plans in Metric

Contract plans detailed in **metric** should conform to the "Structural Detailing Standards" guide (yellow cover) dated June 1995 except as noted below.

General Plan, Deck Contours, and Foundation Plan sheets should be dimensioned in **meters** with the note above the title block stating: "All dimensions are in meters unless otherwise shown." The intent of dimensioning these sheets in meters is to provide consistency with the metric stationing and lane widths shown on the Road Plans.

The structure depth on the Typical Section of the General Plan sheet should be noted in millimeters with "mm" added to the dimension.

All of the other detail plan sheets are to be dimensioned in **millimeters** with the note above the title block stating: "All dimensions are in millimeters unless otherwise shown."

It should be noted that in accordance with *Bridge Design Details*, p. 8-11, roadway lane and shoulder widths that are shown on the General Plan should not be shown again on the Typical Section sheet. All dimensions on the Typical Section sheet should be shown in millimeters.

Log of Test Boring data will continue to be produced using English units until equipment used to produce the data can be updated to metric. However, alignment data shall be shown on the Log of Test Borings sheet in metric and offsets to boring locations shall be shown in dual dimensions (metric and English). This policy shall also apply to As-Built Log of Test Borings sheets; the metric alignment must be shown on the As-Built plan with offsets that are dual dimensioned to the locations of the borings. The Structures Project Engineer is responsible for providing enough alignment data to the Office of Structure Foundations for the boring locations to be referenced to the metric alignment.

For projects where railroads are involved, dual dimensions shall be shown for all horizontal and vertical clearances that affect the railroad. Any Top of Rail elevations shall also be shown in dual dimensions. Railroad station lines shall be shown in English units only.

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The format for dual dimensions shall be: metric units (English units); e.g., 6 200 mm (20'-4").

Attachment A shows preferred metric scales to be used in place of the standard English unit scales that are indicated in the various sections of the *Bridge Design Details* manual.

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Attachment

Previous English Scale	Preferred Metric Scale
Full Size	1:1
3" = 1'-0"	1:5
1 1/2" = 1'-0"	1:5 or 1:10
1" = 1'-0"	1:10
3/4" = 1'-0"	1:20
1/2" = 1'-0"	1:20 or 1:25
1/4" = 1'-0"	1:50
1/8" = 1'-0"	1:100
1" = 10'	1:100
1" = 20'	1:200 or 1:250
1" = 30'	1:250
1" = 40'	1:500
1" = 50'	1:500
1" = 100'	1:1 000