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majority of building
columns are designed
for axial compression
only with little or no
uplift. For such col-
umns, the simple
column-base-plate
connection detail
shown in Figure 1.1 is

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sufficient. The design
of column-base-plate

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E. Via Department of

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Plates
and to connect two
rafter segments in
typical gable frames as
shown in Figures 1-1
and 1-2. Hence,

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Construction to assist practicing engineers engaged in building design. The design guidelines suggested by the author that are out-

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work upon which that
publication was based:

Bethlehem Steel
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Coverage of shapes
has been expanded
and includes W-, M-, S-,
and HP-Shapes,
channels

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with cast-iron columns
and wrought-iron
beams. Early uses of
cast iron in England in
the 1770s included a
small arch bridge over
the river

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Beam-Column Base

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a functi n f , surface
that is ge metrically
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functi n f ,

Beam-Column Base Plate Design--LRFD Method

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ANCHOR ROD

DESIGN / 61 Anchor rods are placed at a 12-in. edge distance.

The required moment strength, M_u or M_a , for a 1-in. strip of plate due to the

tension in the anchor rods is

The required moment strength due to the bearing stress

distribution is critical.

The required plate

thickness is:

t_p LRFD ASD

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iii PREFACE Third

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Manual has been

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Structural design of

cold worked austenitic

stainless steel

(contract

RFS2-CT-2005-00036).

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