

THE CURTIS DETAILING TEMPLATE

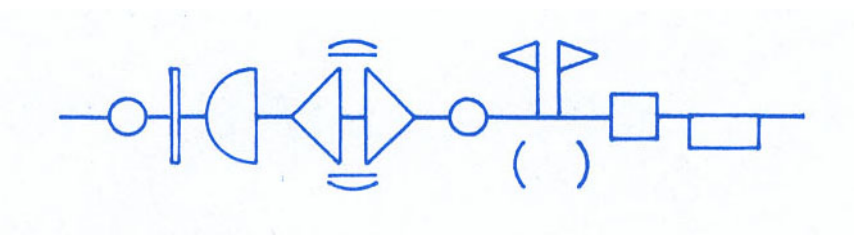
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This template was specifically designed for use in Detailing structural steel and miscellaneous iron. It is offered as a service to the steel detailing industry. **Curtis Detailing** has invested the time and effort to develop and market this timesaving template to assist all detailers.

It has shapes that are useful in three general areas: Erection Drawings, Detail Drawings, and General Shapes for use on all drawings. Now, this one template may become your most used tool. Some of these shapes are obvious and need no explanation; however, some brief explanation will be given.

I GENERAL SHAPES

1. Welding Symbols



This portion of the template is for producing most of the current A.W.S. welding symbols. They are in line so the template can be moved sideways to produce the required symbol. From left to right, the symbols are:

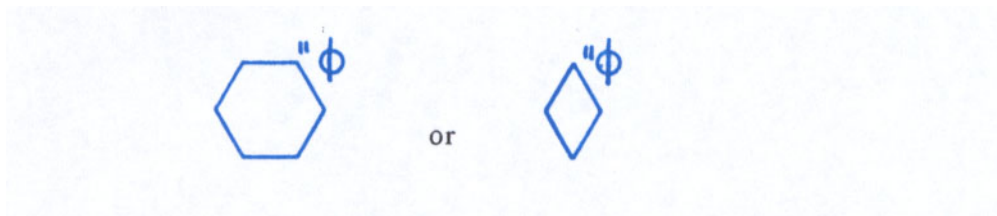
1. All-around symbol.
2. A vertical line and . . .
3. A semi-circle for flare-bevel welds.
4. A triangle for bevel welds (in combination with the vertical portion of the semi-circle).
5. The vertical portion of the two triangular shapes will produce a square welding symbol.

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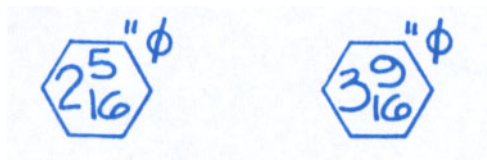
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6. The second triangle is for fillet welds and both triangles can be used for tail notes.
7. Between the two triangles, above and below are shapes for weld contours, flush or convex, or, if reversed, concave.
8. Another all-around symbol, which can also be used for backing welding symbols and for melt-through symbols.
9. The two flags for field welding symbols. There are two flags because the flag points toward the welding symbol.
10. Under the flags, parentheses for weld sizes and penetrations.
11. The square is for back-up bar symbols, and
12. The rectangle is for plug welds.

2. Hole Size Designation



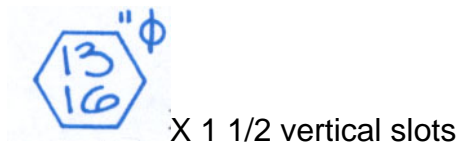
Either symbol is acceptable. The hex gives more room for designating larger sizes, i.e.,



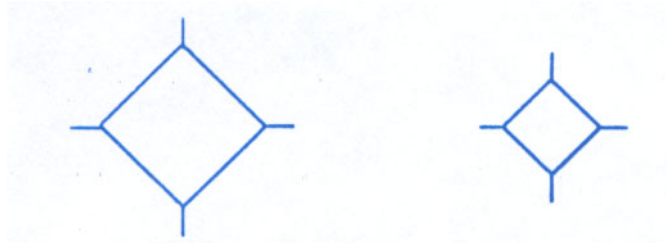
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For slotted holes:



3. The Two Tipped Squares



The larger can be used on “E” sheets to designate “installment areas,” or “erection sequence areas.” The smaller can be used on detail drawings to tell the shop how to mark the steel.

4. The Two Triangles



For noting revisions to drawings

5. Section & View Cutting Marks



For designating sections and views.

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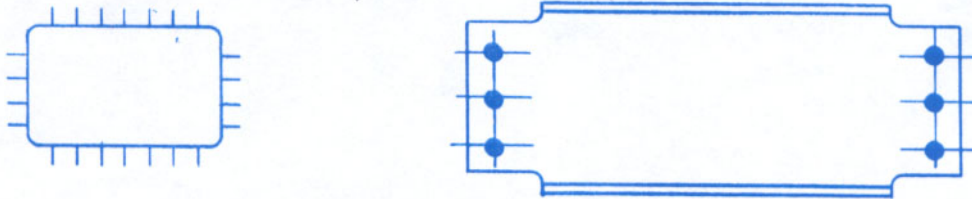
II DETAILING SHAPES

1. Hole Patterns

In the upper left-hand corner and lower right-hand corner are shapes for holes, long slots, short slots, and hex head bolts. These are to scale of $1 \frac{1}{2} = 1'-0$ and $1'' = 1'-0$.



2. Blocks



This shape is for producing the picture of blocks in beams and can be used for many other re-entrant cuts. The radius in the corner can be easily drawn. The marks on the edges designate $1'' @ 1 \frac{1}{2}'' = 1'-0$ scale but can be easily used for drawings of other scales.

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3. Beams and Angles

The same shape can be used to draw beams and angles to show the corner fillets.



4. The Tapered Rectangle



This can be used for drawing the inside sloping face of channels and American standard beams.

5. Beam Cuts



Top Flange



Bottom Flange



These shapes, 2 @ 1 1/2" = 1'-0 and 2 @ 1" = 1'-0 are for drawing re-entrant cuts for beam flange preparations (rat holes is the common jargon of the trade). Start with the cutout and slide the template to draw the flange preparations (for the top). The bottom is complete as is. (Flip the template over to draw cuts at left end of beam.)

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6. The Shipping Mark Designation



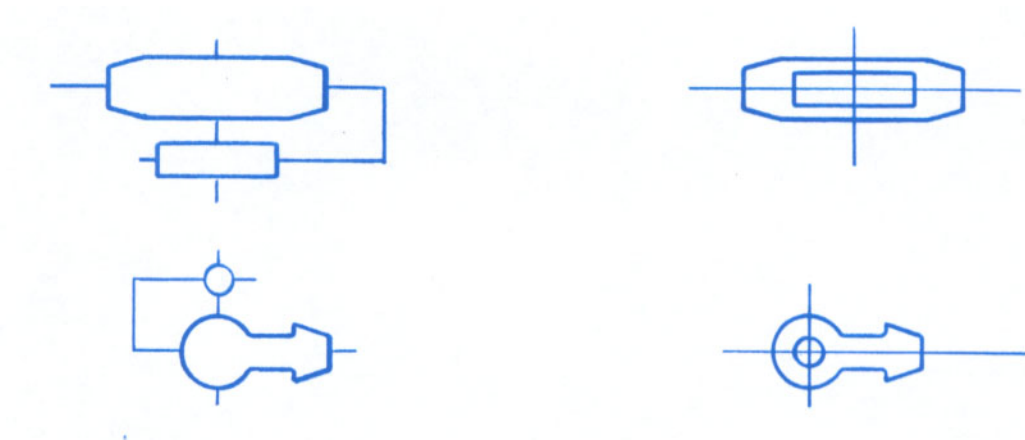
Some shops would like to have this designation shown on the drawing to indicate "left-end" and "top" along with the shipping mark and installment mark.

7. Pipe



Generally, for handrail drawings either 1 1/2" or 1 1/4" Standard Pipe is used. These shapes will give outside and inside diameters, if an end view is necessary.

8. Turnbuckles and Clevises



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These shapes will give good symbolic representations of these two common items. By sliding the template, it is possible to produce the complete picture easily.

9. Headed Anchors and Threaded Stud Symbols

These three symbols will help in drawing these common items.



The headed anchor (looking straight on)



The headed anchor (oblique view)



The threaded study

These shapes will give good symbolic representations of these two common items. By sliding the template, it is possible to produce the complete picture easily.

III ERECTION DRAWING SHAPES

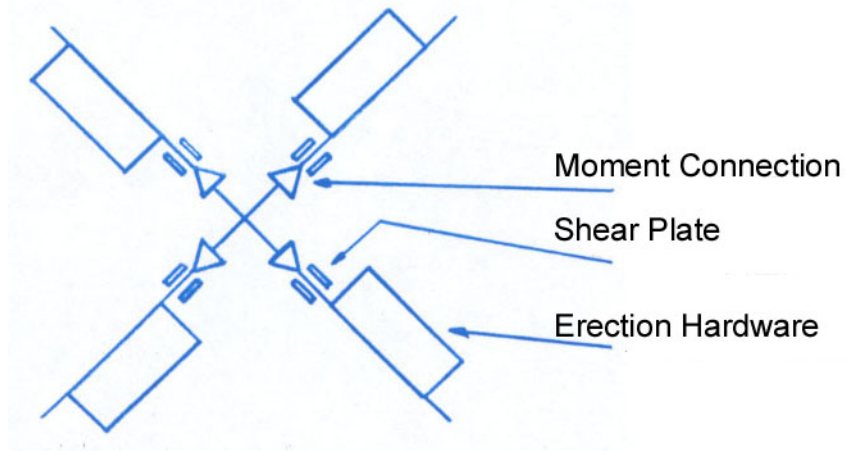
1. Column Shapes

In the lower left-hand corner, there are several shapes for “W” columns, box and/or square tube columns, and for rectangular tube and pipe columns.

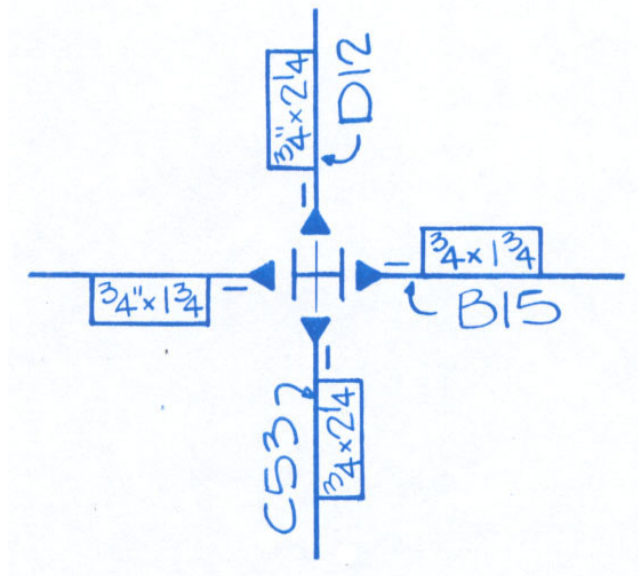
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2. The "Pin Wheel" Shape



In addition, there are two slots for indicating shear plates on the column. The rectangular box is for designating erection hardware required at that connection. The final picture might look like this:



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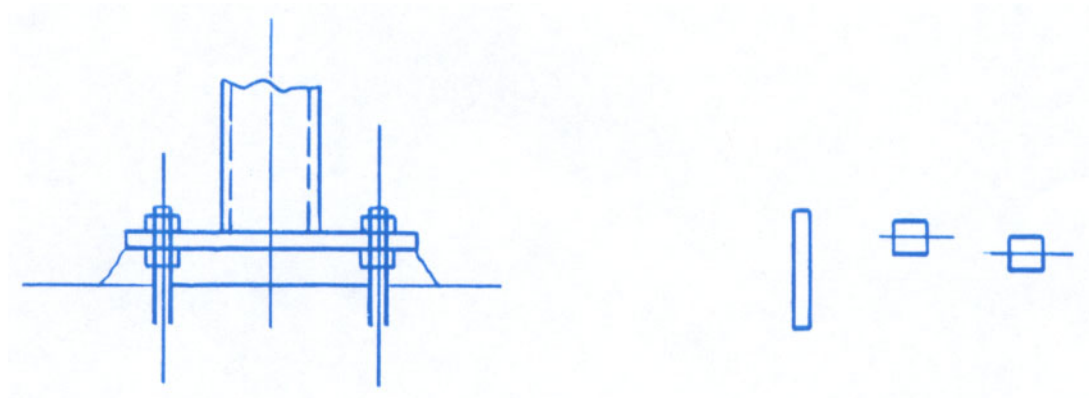
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IV MISCELLANEOUS

1. Chain



2. Anchor Setting Details



3. Wedge Anchors



4. A Variety of Tubing Sections

