

(Synchronizing Multiple Viewers to Plot a Series of Cross Sections continued from page 3)

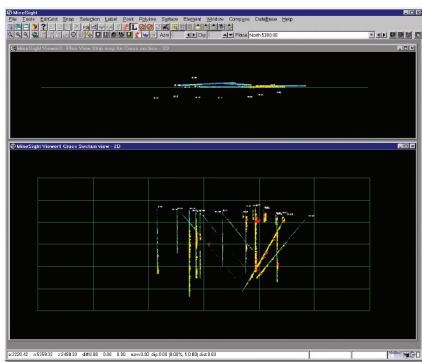


Fig. 2

will be for the cross section and one for the plan view strip map (Fig. 2).

Create a new Grid Set for the planes you want plotted or use an existing grid set (e.g., an East-West, North-South, or non-orthogonal). Then attach the Grid Set to one of the viewers and put that viewer in 2-D mode. This viewer is a cross section view of your data. The second viewer should be in 3-D mode, with volume clipping set to match the 2-D projection volume set in the first viewer.

Next, create a Plot Layout object. Set the viewer displaying the data in cross section (in 2-D mode) as the “Main Viewer”. This means the 2-D viewer effectively controls the view, and the second viewer is now subordinate to the main viewer. Set the defining Grid Set as the Main Viewer Area’s Grid Set, and toggle ON “Use Grid Set or Defined Limits” (Fig. 3). The attached Grid Set will control the plot’s limits and, in conjunction with scale, determine the plot size.

To properly synchronize the data in the viewer representing the plan view strip map with the cross section data in the Main Viewer, toggle ON “Sync with the Main Viewer Area’s Target” in the Plot Layout Editor (Fig. 4). This toggle maintains that the correct data is properly plotted from one cross section to the next, matching the data displayed in the Main Viewer.

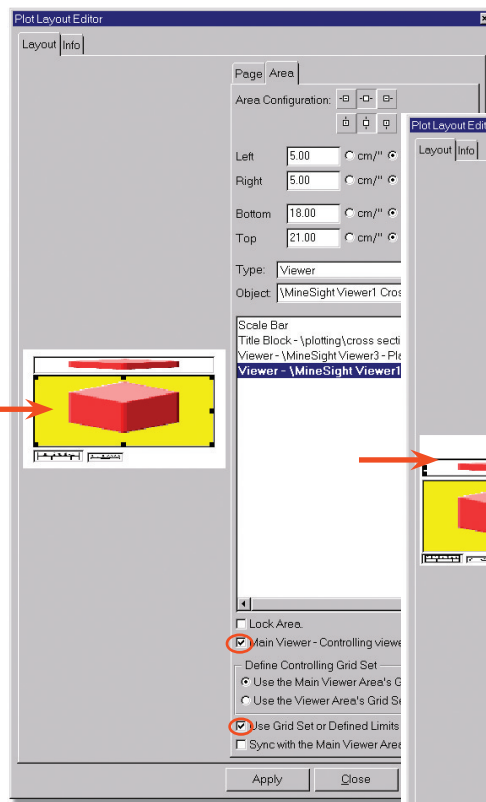


Fig. 3

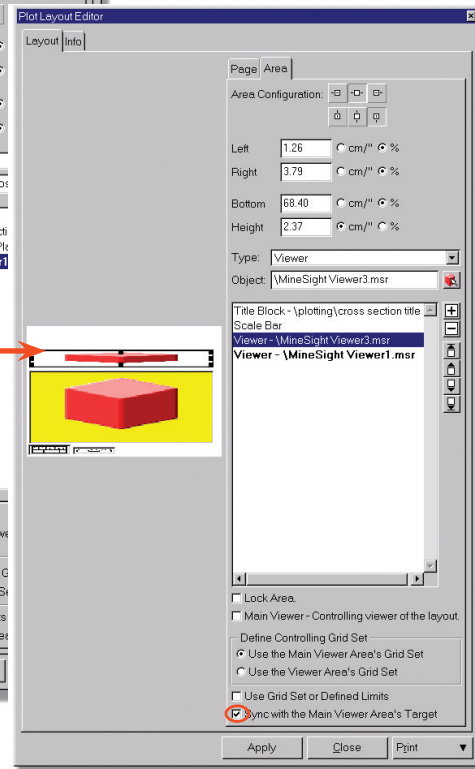


Fig. 4

Setting up exact placement of the two viewers is done using the Area Configuration icons. These icons and the values input below them (whether in centimeters, inches, or percent) allow you to determine that the two viewers will be exactly the same width and allow you to control their placement on the page. In the examples shown in Figs. 3 and 4, both the “Main Viewer” and the synchronized viewer are placed horizontally in the center of the plot layout image (the image represents a ‘paper plot’ layout). Notice that in the case of the Main Viewer both the center-horizontal and center-vertical Area Configuration icons have been selected, and the center-horizontal and top-vertical icons have been selected for the synchronized viewer. Set the correct height of the synchronized viewer on the Area Tab in the Plot Layout Tool in centimeters (inches), by calculating the height using the plan strip width and the plot scale.

To display Easting, Northing, or Elevation grid lines and/or labels on the plots, turn on the Grids for the viewer windows in the Viewer Properties dialog.

Finally, in the Plot Layout Editor, click on **Print | Preview** and select a couple of sections to see how they look. Notice, as you step from one section to the next, that the data in the strip map is always displayed in the proper plane and projection thickness as the data in the cross section. If the previews are okay, then click on **Print | <print type>** (such as ‘hpgl2’), then “Select All” and plots for every plane in the attached Grid Set will be properly created.