Draw and Locate Points From CRD Files

These instructions are for drawing points by using a CRD file. The CRD file used needs to be from an existing job. During these instructions any Carlson module can be used (civil or survey). Remember to save your drawing!

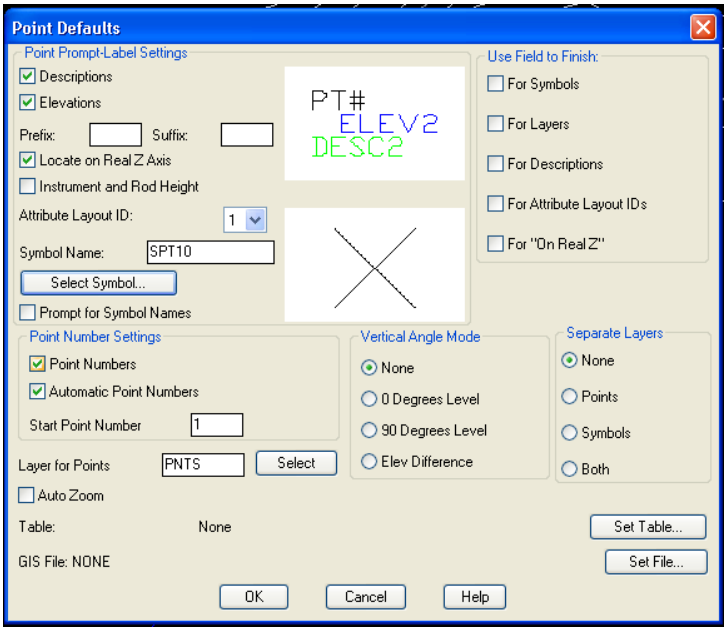
1) AutoCAD should be open and a new drawing should be setup.
2) Remember any Carlson module can be used. Select the **Points Menu → Set CooRDinate File**.
   a) "Coordinate File to Process" box will appear, select the **existing tab** and find the existing CRD file to use.
   b) Select **OK**

3) Performing a rough scale check. **Points Menu → List Points**
   a) Range of points: "**ALL**", check "**Report Coordinate Range**" box.
   b) Click **OK**

4) At the bottom of the list take the differences between the min and max ranges for both the X and Y coordinates. Divide the numbers by the max inches of usable paper for the drawing size. This shall be the rough scale to use. Always round the scale up to the next standard size. (i.e. 25.1:1 – 30:1)

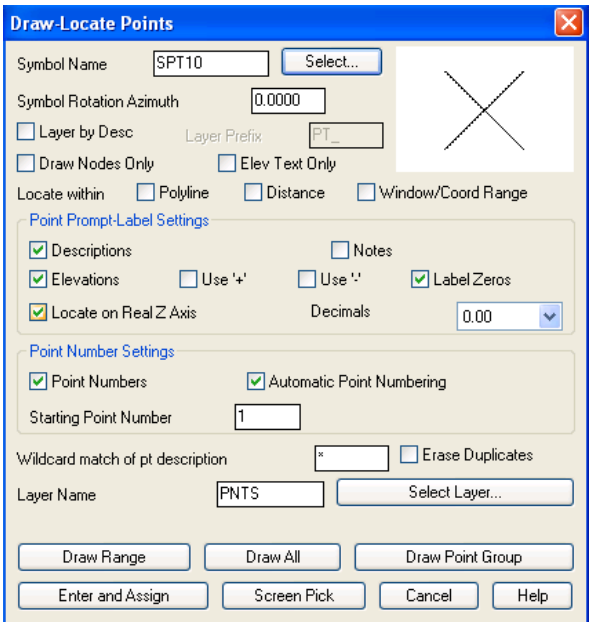
5) Change drawing setup: **Settings Menu → Drawing Setup**
   a) Under **Horizontal Scale** enter the calculated scale in the step above. Don't change the Symbol Plot Size or Text Plot Size, these should be 0.125. The drawing units will change automatically.
   b) Click **Ok**

6) Check Point Defaults: **Points Menu → Point Defaults**
   a) Check the boxes such as in the figure below



7) Print List Points: **Points Menu → List Points**
   a) Select "**All**" for the point range and hit ok.
   b) **Print** the list. It's a good idea to take time and highlight all of the spike points on the list; this makes it easier when drawing the points later on.

8) Drawing the points: **Points Menu → Draw and Locate**
   a) A points box will appear. Change the layer name to pnts and check the same boxes in the figure below. Other options can be selected depending on what your preferences are.
   b) Now select the **draw range** button. The command line will prompt you for numbers to draw, only type in the point numbers that should be contoured. The numbers can be typed in as follows: 1-10; 1,10,12,15…



9) Drawing spike points: Repeat step number 8
   a) Change the layer name to **pnts_spk** and change to a different symbol. Only draw the points that are spiked. These points won't be contoured.