Prosurv cEZ Plotting

[R] • Regen Screen—Plots and draws all points and SETS in the drawing file

[icon] • Sets Screen Limits by points in a SET

[icon] • Sets Screen Limits by Entire File

[icon] • Plot a Range of Points

[icon] • Plot Points in a SET

[icon] • Draw SETS with Linework and Curves

[icon] • Locate a Point on the screen
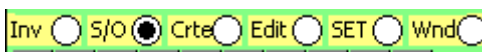
[icon] • Plot Settings

[icon] • Zoom Plus

- Zoom Minus
- Select Foreground (Plotting) Color
- Select Font
- Clear Entire Drawing
- **Exit the Plotting Screen**
- Quick Pick Settings
- Quick Pick Store SET
- Quick Pick Clear SET
- Regen Back Button

Inv ◯ S/O ⦿ Crte◯ Edit ◯ SET ◯ Wnd◯

Inverse between two points by tapping them. Moves up to 2nd point.

Window into an area by sliding the stylus across the screen.

Compute Station Offset of tapped points. First two taps define the line. Subsequent taps give S/O from that line. Clear the line by tapping the Quick Pick Clear SET button.

Select points by tapping and they're stored in a temporary list. Then tap the Quick Pick Store SET button to store the points in a new SET.

Create points by simply tapping the screen. Great for filling in missing topo shots by storing a point that can then be staked to get a true elevation.

Edit existing points by tapping them. Searches for point in job that's closest to tapped point. Or search only by points in the drawing.
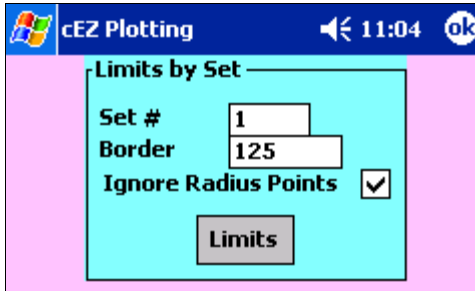
R **Regen Drawing**

It can take several seconds or a minute to re-plot all of your commands. Each time you plot a set, a range of points, or points in a set (no lines drawn), the command is stored in the job's database. The settings (such as font size, point #'s on/off) are stored with the command as well. By changing the Limits, you can effectively zoom in or out of a drawing using the Regen command.

You can Clear the entire Drawing at any time by tapping the Clear Drawing button. This will remove all the commands in your file.

Limits by Points in a SET

This function sets the screen limits by points in a SET. For example, if you have a SET of points that represent a Lot's corners, then you can easily zoom into the Lot by setting the screen limits by that SET.

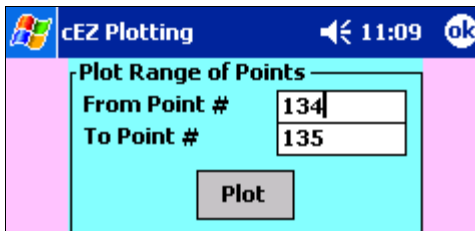Just enter the SET number and tap the **Limits** button.

This routine does NOT do a Regen. So after setting the screen limits by points in a SET, you should tap the Regen button.

Limits by Entire File

Tapping this button will immediately re-size the screen to the extents of your points (called **zoom extents** in some CAD programs). This routine will also immediately perform a **Regen** based on the new screen limits.
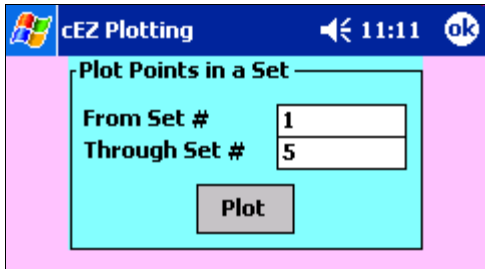
Plot Range of Points

Plots a range of points on the screen with your current color, font, and other settings.

🔳 Plot Points in a SET

Plots the points, without drawing lines, of points in the given SETS using the current color, font, and other settings.

This routine draws the familiar "cross" for the point.

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Plot Points in a Set

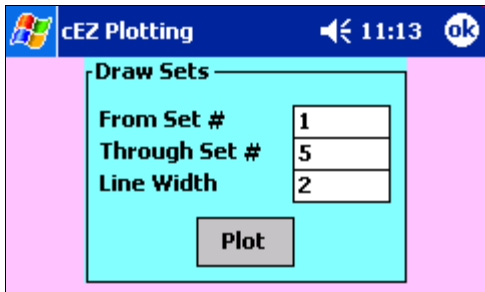From Set # | 1
Through Set # | 5

Plot

◇ Draw SETS With Linework and Curves

Draws linework between points in the given SETS. If the SETS contain points that are radius points, then this routine also draws curves from point to point based on the radius point. **Prosurv cEZ** looks at the feature code of each point. If the Feature Code contains the letters **"rp"**, then

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Draw Sets

From Set # | 1
Through Set # | 5
Line Width | 2

Plot

that point will not be drawn, and the points before and after that point will be connected by a radial curve.

For example, you might have a Baseline whose Horizontal Geometry is defined by points 1,2,3,4,5 where 1 to 2 is a line, 3 is a radius point with the descriptor **"rp"**, and 4 to 5 is the ending line. When Drawing that SET, points 2 to 4 will be connected by a radial curve.
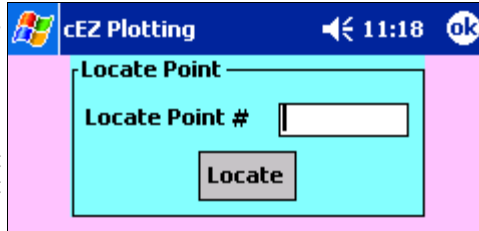
The current color and font settings are used. The Settings function contains a check box for whether you want to display the description of each SET when plotting that SET.

This routine **does not** draw the **cross** for each point. You can use the Plot Points in a SET routine to plot the crosses.

Locate a Point

Enter a point number to locate on the screen, then scroll the screen to see the large, filled-in circle that represents the point. If the point is out of the screen range, it will not be displayed.
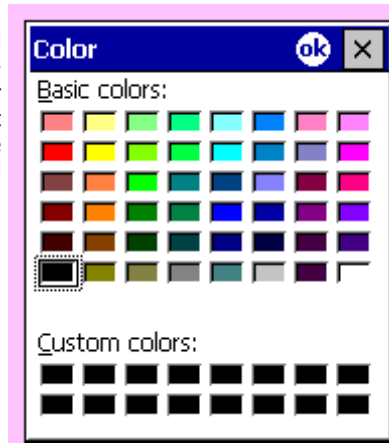
Plot Settings

You can select where to display each point's information, and the point items you want to show.

Set Descriptors are shown when Drawing SETS (if selected).

The Zoom factor de-termines how "quickly" the picture zooms in and out when tapping the Zoom Plus and Zoom Minus buttons.

You can set the Background Color to one of many colors. Set-ting a new Background Color clears the screen, but does not clear the drawing. Simply tap the **Regen** button to see your plotted drawing on the new background.
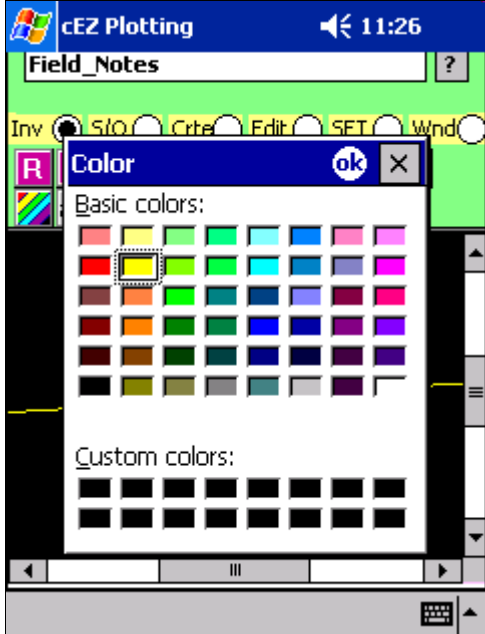
Zoom Plus

Zoom "into" the drawing (see it closer). Zoom speed is based on the zoom factor in Settings.

Zoom Minus

Zoom "away" from the drawing (see it from farther away). Zoom speed is based on the zoom factor in Settings.

Select Foreground (Plotting) Color

Select a color to be used the next time you Plot a Range of Points, Plot Points in a SET, or Draw SETS.

Each "Drawing Command" stores the color and other settings that it used when it was plotted, so green stays green and red stays red after a **Regen**.
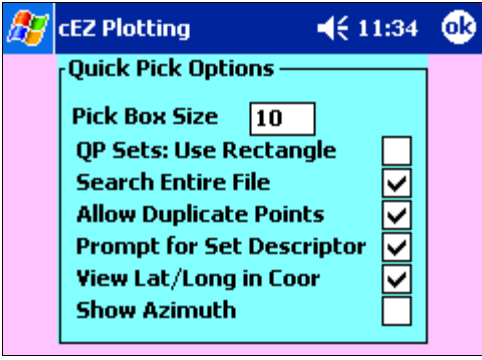
Select Font
Select a Font, Font Size, Color, and Font Style that will be used when Point information is Plotted.

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Font: Size:
Tahoma   ▼   12   ▼

Preview: Color

AaBbCcYyZz   ▼

Font Style
☑ Bold   ☐ Underline
☐ Italic   ☐ Strikeout

Erase Drawing
Erases all the commands in the current drawing.

Exit Plotting
Exits Plotting and returns to the main Prosurv cEZ screen.

Quick Pick Settings
User-selectable settings are available here for the Quick Pick routines.

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Quick Pick Options

Pick Box Size   10
QP Sets: Use Rectangle   ☐
Search Entire File   ☑
Allow Duplicate Points   ☑
Prompt for Set Descriptor   ☑
View Lat/Long in Coor   ☑
Show Azimuth   ☐
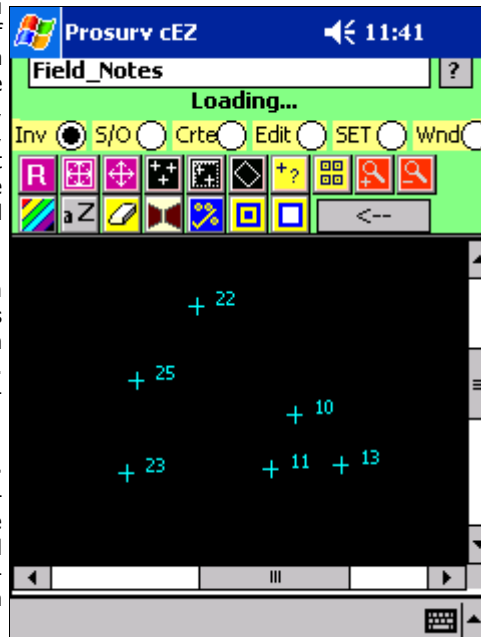
🔲 Quick Pick Store SET

This routine gives you a quick and easy way of gathering points into a SET for later use. Once they're stored in a SET, you can Plot the SET, Stakeout the SET, Export the SET, Compute the AREA of the SET and much more.

The example shown here has several points that were imported from an asc file for stakeout. They represent Lot Corners for a new lot.
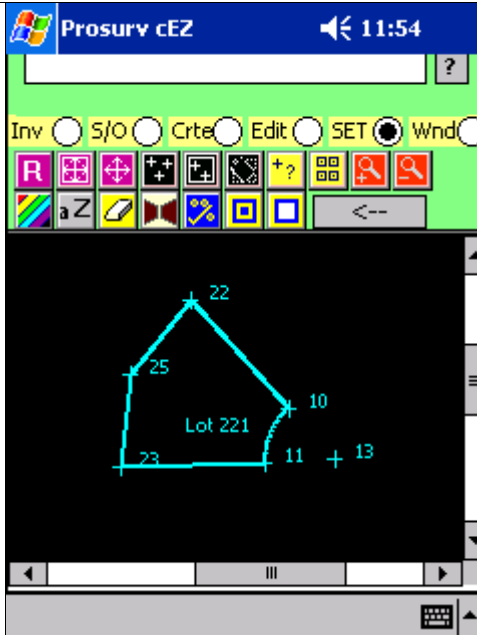
Point #13 is a **Radius Point**, and it's feature code contains the letters **"rp"**. This will help Prosurv cEZ in identifying the point as a radius point.

To store the points into a new SET, start by tapping point 23. Then tap 11,13,10,22,25, and once again #23 to "close the linework" for the SET.

After tapping the last point, tap the **Store SET** button. Prosurv cEZ will prompt you for a Description of the SET. Here we call it "Lot 221".

Drawing the SET now gives us the picture shown here.

We can Zoom in to the Lot using the **Window** button.

Just tap and hold one spot, then drag the stylus to another corner.

Let go when you're ready to Zoom.

The result of Zooming in using the **Window** function is shown here.

☐ **Quick Pick Clear SET**

Clears any previously selected (tapped) points (for SET storage). Also clears the Station/Offset line that was defined by the first two screen taps.

<-- **Regen Back Button**

Goes back to the previous screen's display.