



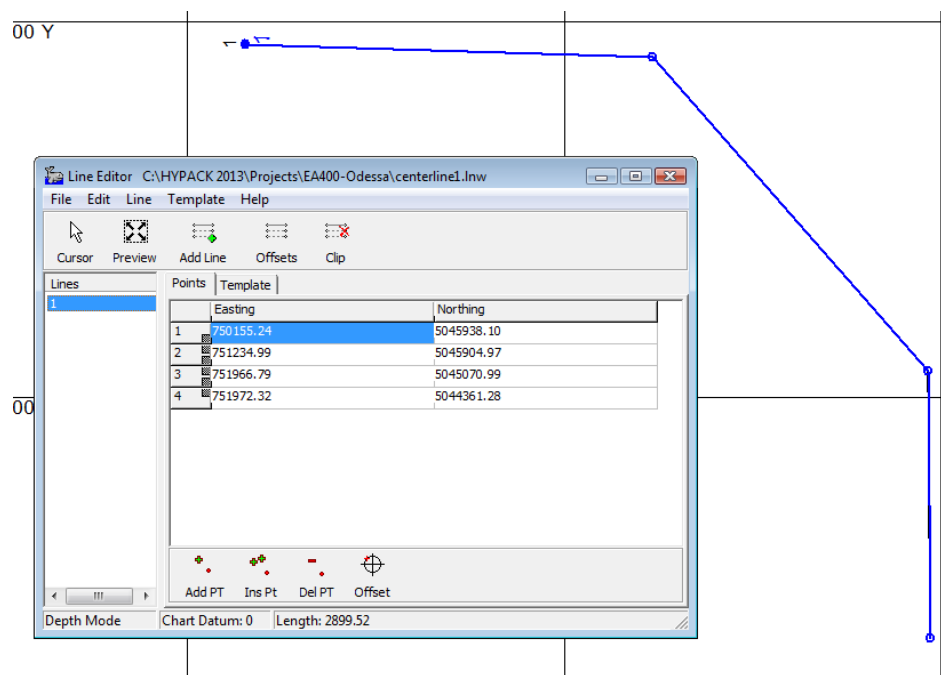
# Creating a Channel Based on a Planned Line in ADVANCED CHANNEL DESIGN

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In ADVANCED CHANNEL DESIGN (ACD), it is possible to build a channel based on the multiple-segmented planned line. Below are the steps to make it.

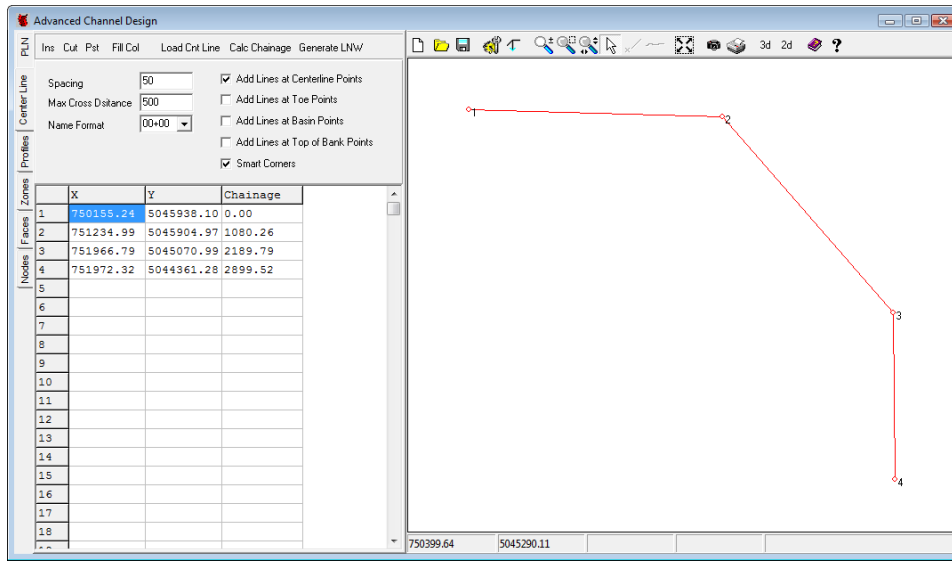
1. **Create a planned line in LINE EDITOR as a center line of the channel.**

**FIGURE 1.** Center Line in the LINE EDITOR



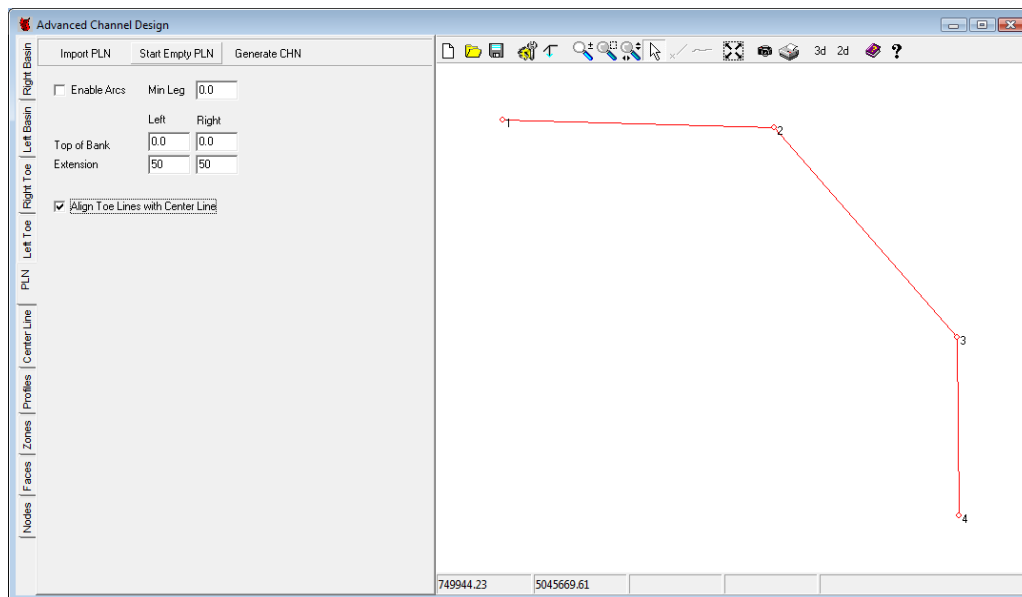
2. **Run ACD.**
3. **In the Center Line tab, click [Load Cnt Line] and load the center line LNW file.**
4. **Set up the parameters for the channel lines to be generated.**

**FIGURE 2. Importing a Center Line into ADVANCED CHANNEL DESIGN.**



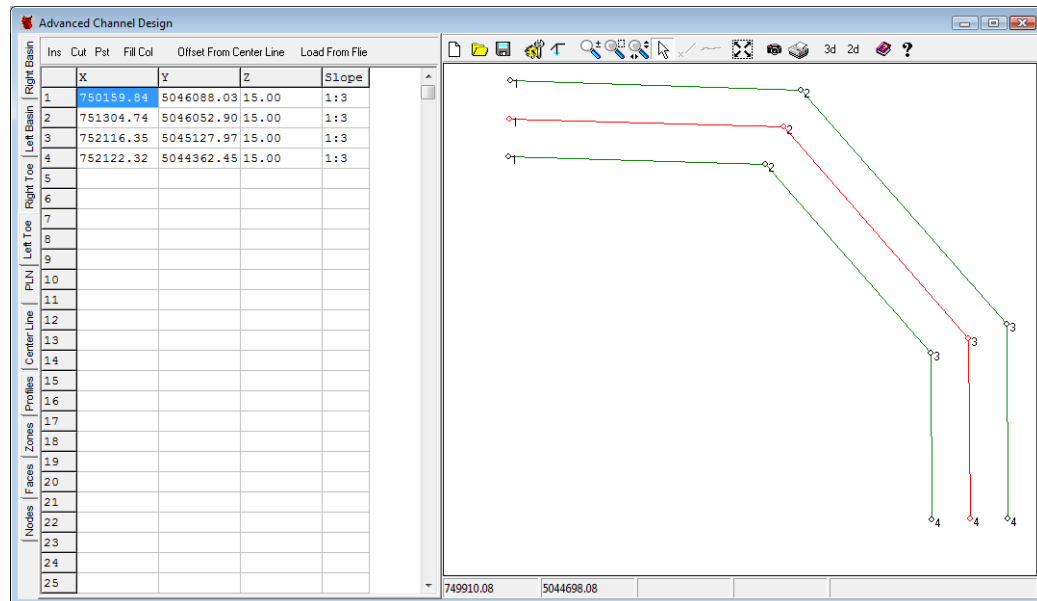
5. In the PLN tab, set up the properties of a new PLN and click [Start Empty PLN]. New tabs for the left and right toes, and left and right basins appear.

**FIGURE 3. PLN Tab in ADVANCED CHANNEL DESIGN**



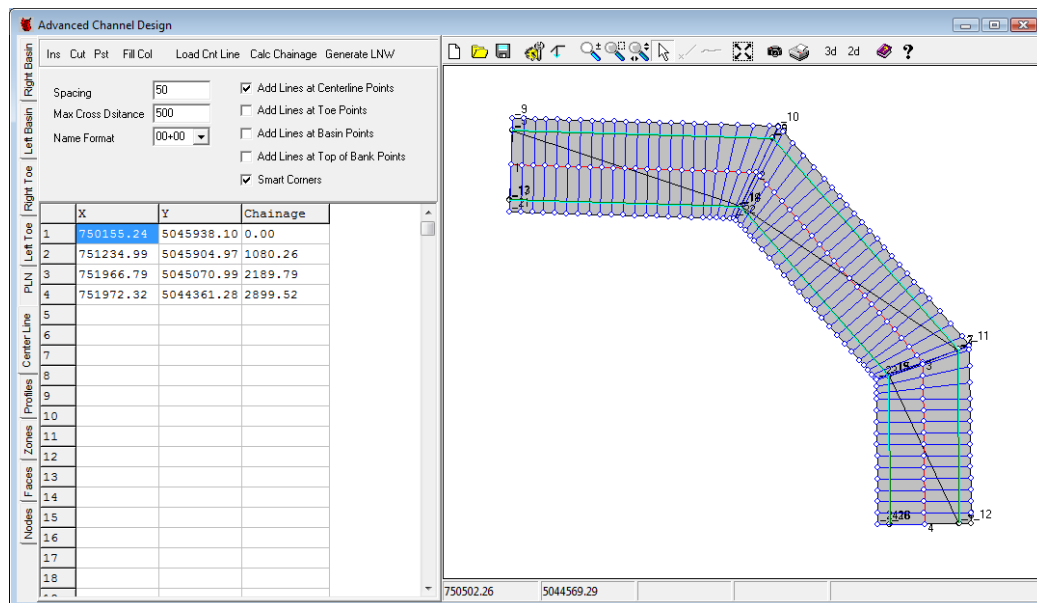
6. Enter the left and right toe information. You may enter the points manually or use the [Offset from Center Line] option to create toes based on their distance from the center line and the slope.

**FIGURE 4. Creating Toes of the Channel.**



7. In the PLN tab, click [Generate CHN].
8. In the Center Line tab, click [Generate LNW] to generate channel planned lines with the templates.

**FIGURE 5. Channel and the Planned Lines in ADVANCED CHANNEL DESIGN**



9. In the Profile tab, save the planned lines in an LNW file.
10. Preview your channel. Click [3d] in tool bar.
11. If the channel is OK, save it to a CHN file.

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**FIGURE 6.** *Resulting Channel in 3D View*

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