

# MicroSurvey FieldGenius 8

Line Staking Procedure using GNSS

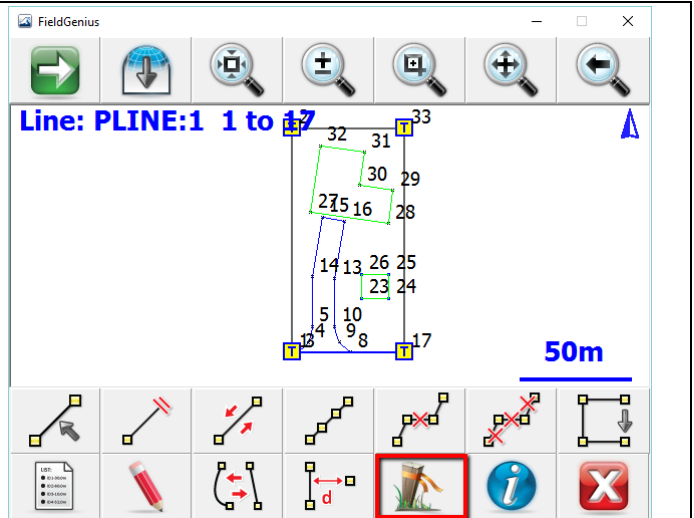
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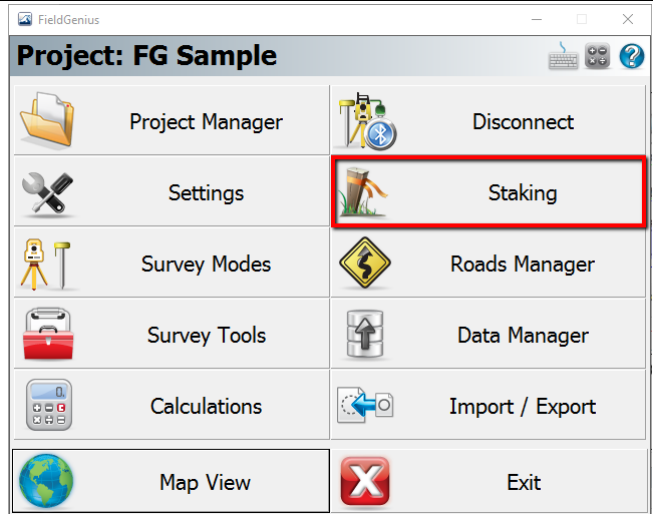


# Defining the Line

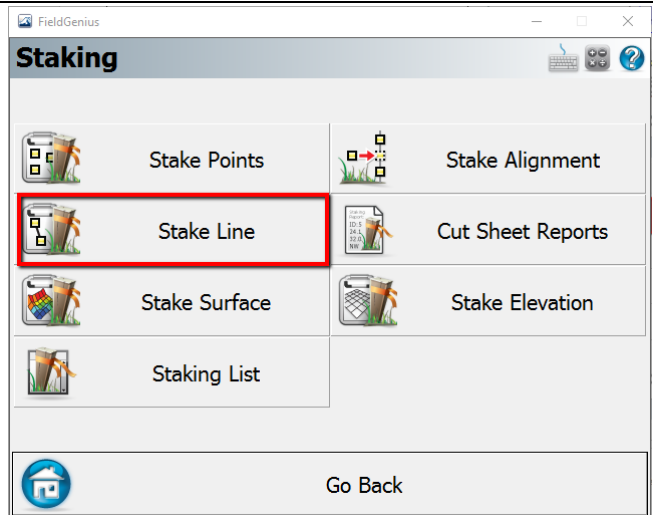
1. *Option 1:* If you have a line figure, simply select the line from the map screen and pick the Stake icon:



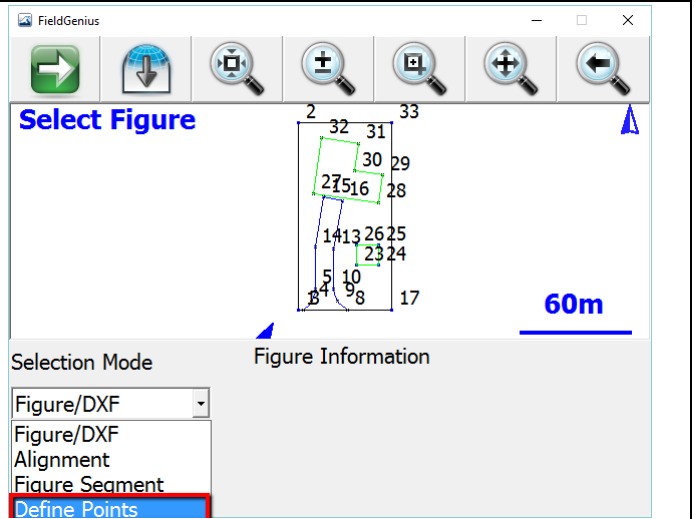
2. *Option 2:* If you have points in the project that you measured and want to stake the line between those points, pick **Staking** from the Main Menu:



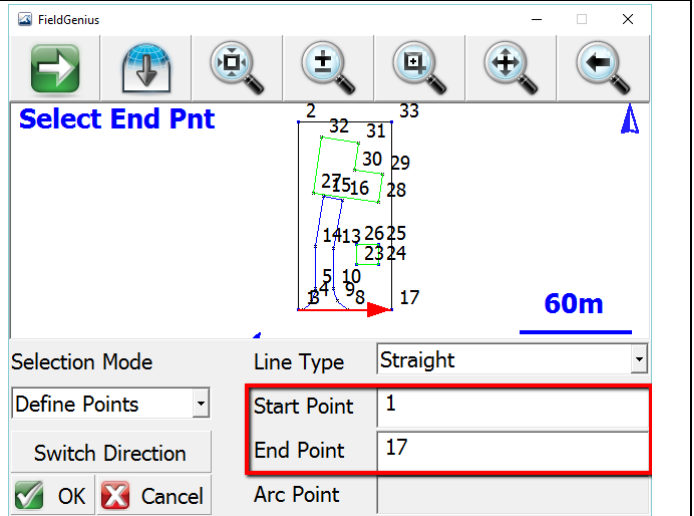
3. Pick **Stake Line**:



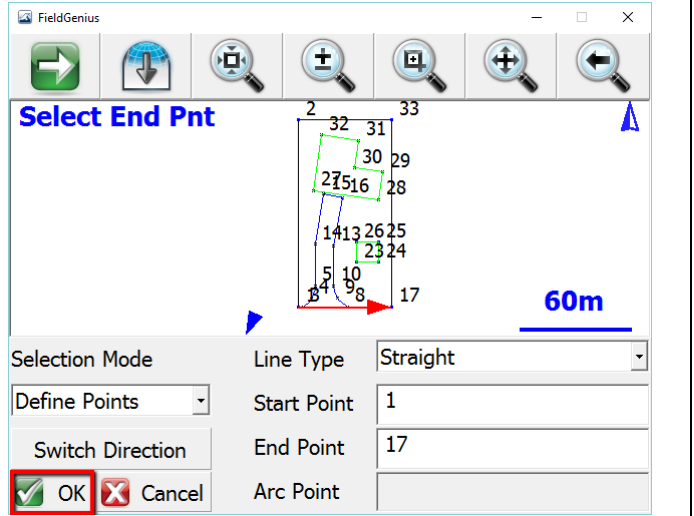
4. Pick **Define Points** from the Selection Mode drop-down list:



5. Enter the Start Point and End Point:



6. Pick **OK**:



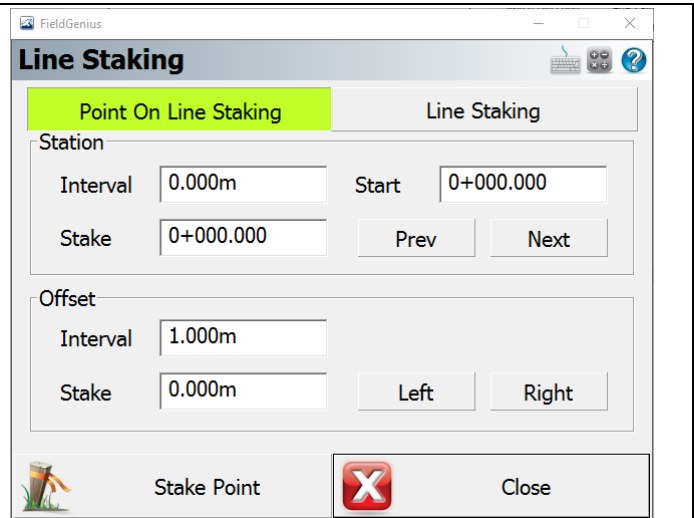
Two methods of Line Staking exist, *Point On Line Staking* and *Line Staking*.

## Point on Line Staking

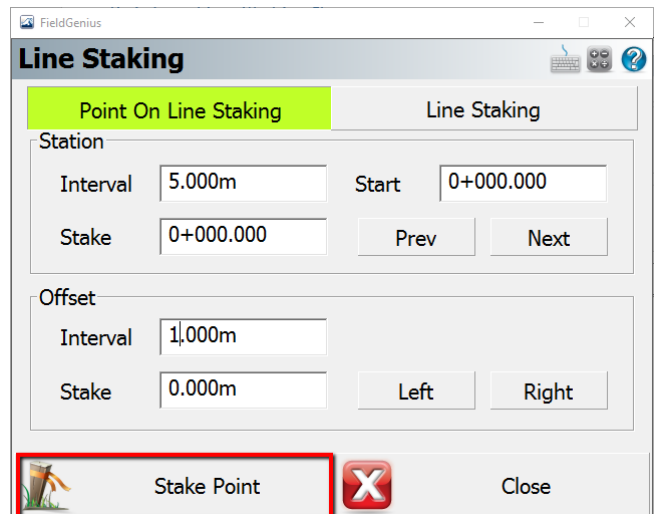
Point On Line Staking allows you set specific points along a line, as well as offsets from the line, that you want to be guided towards.

- Station Interval – Set this value if you want to stake a certain distance interval along a line.
- Station Stake – This is the Station that you will be staking if you pick **Stake Point**. The **Prev** and **Next** buttons will decrease or increase the Station Stake value by the Interval amount each time you pick one of them.
- Station Start – This is the Station you are assigning to the beginning point of the line.
- Offset Interval – Set this value if you want to stake certain distance intervals on a cross section.
- Offset Stake – This is the Offset from the line that you will be staking if you pick **Stake Point**. The **Prev** and **Next** buttons will decrease or increase the Offset Stake value by the Interval amount each time you pick one of them.

When all the parameters are set, pick **Stake Point**:

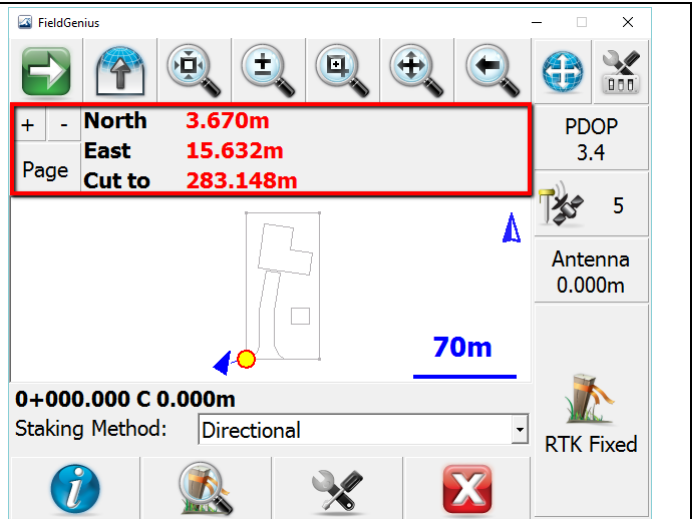


The screenshot shows the 'Line Staking' dialog box in FieldGenius. The 'Point On Line Staking' tab is selected. Under the 'Station' section, the 'Interval' is set to 0.000m, 'Start' is 0+000.000, and 'Stake' is 0+000.000. Under the 'Offset' section, the 'Interval' is 1.000m and 'Stake' is 0.000m. At the bottom, there are three buttons: 'Stake Point' (with a stake icon), a red 'X' button, and 'Close'.

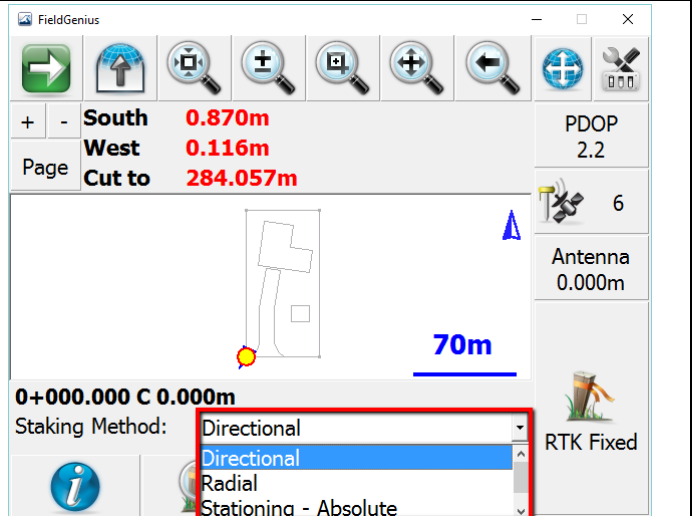


The screenshot shows the 'Line Staking' dialog box in FieldGenius with modified settings. The 'Point On Line Staking' tab is selected. Under the 'Station' section, the 'Interval' is set to 5.000m, 'Start' is 0+000.000, and 'Stake' is 0+000.000. Under the 'Offset' section, the 'Interval' is 1.000m and 'Stake' is 0.000m. At the bottom, the 'Stake Point' button (with a stake icon) is highlighted with a red border, along with the red 'X' button and the 'Close' button.

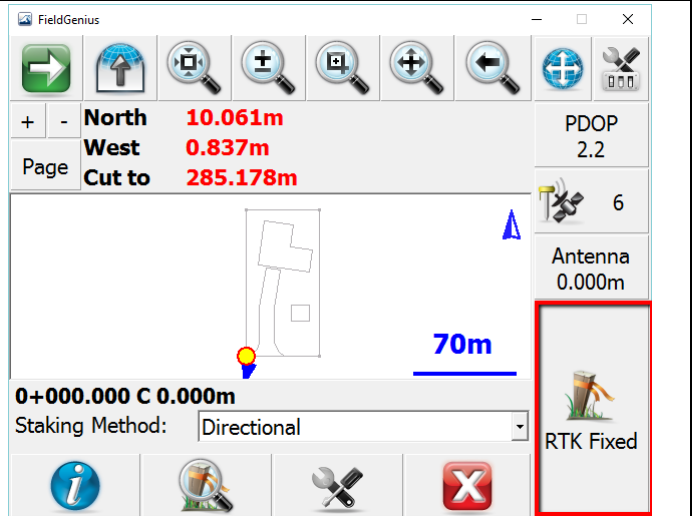
The real-time information at the top of the screen will guide you to the point:



Change the **Staking Method** to change what information you will see to guide you to the point on the line:

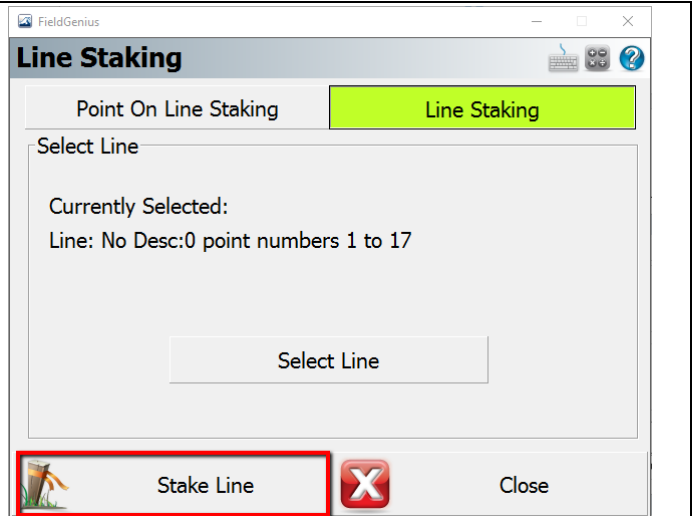


Pick the Measurement button to measure and store the current position in the database.

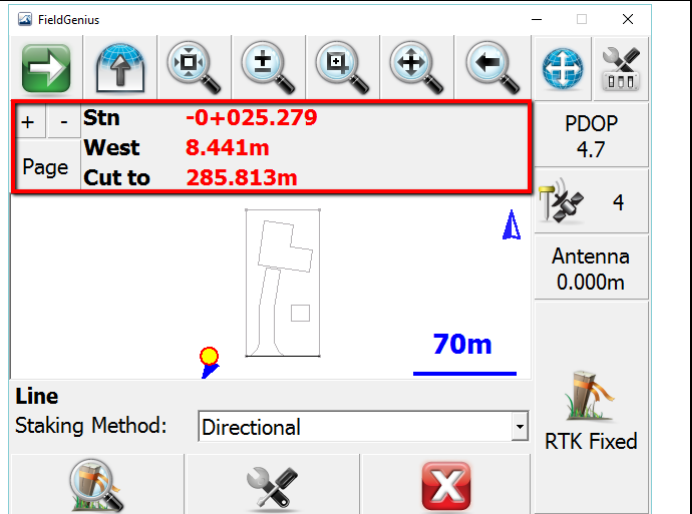


# Line Staking

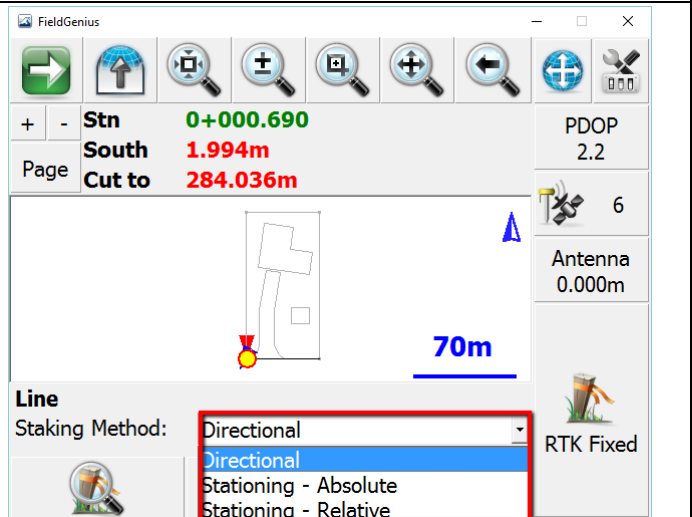
Line Staking shows you the station and offsets from the line of your current position. Pick **Stake Line**:



The real-time information at the top of the screen displays your current position relative to the line:



Change the **Staking Method** to change what information you will see regarding your relative position to the line:



Pick the Measurement button to measure and store the current position in the database.

The screenshot displays the FieldGenius software interface. At the top, there is a toolbar with various navigation and measurement icons. Below the toolbar, a data panel shows the following information:

+	-	<b>Stn</b>	<b>-0+019.717</b>	PDOP	3.5
		<b>East</b>	<b>37.676m</b>		
Page		<b>Cut to</b>	<b>283.368m</b>		

The central area shows a graphical representation of a measurement site with a yellow dot and a blue line labeled "70m". Below this, the "Line" section is set to "Staking Method: Directional". At the bottom right, a button labeled "RTK Fixed" is highlighted with a red border.