

How to Stake and Set-Out Lines in MAGNET Field

The Stake Lines function allows the user to determine and set-out positions exactingly anywhere along a desired line between recorded points or via a set azimuth.

If using an Optical instrument, carry out an **Instrument Setup** and ensure **Occupation** and **Backsight** points have been established and that all necessary **design points** are present within the job.









(5)

Within the **Stake Settings** menu, ensure **Normal View Orien.** is set to **Instrument Reference**.

This allows points to be staked with respect to the position of the total station.

Stake-out tolerance can be altered at the top of the screen.



(4)

Interpolate Ht computes the height of points to be staked with respect to the grade between the selected Start and End points.

Ht of Start Pt computes each staked position with the same height as the selected Start Point.

In all cases be sure to enter the correct Rod Height.

Stake Settings			\checkmark	X
Horz. Distance Tolerance		0.020		m
Normal View Orien.	Instrum	ent Refe	erence	•
Display Reference	None			
Turn TS to Design Pt	None			•
Search After Tu	'n			
Guide	Point G	uide On		
			Next	>>

(6)

Press Stake to begin.

In **Map** view, a Red Line denotes the line to be staked.

The **black** crosshair shows the position of the user and prism.

The **blue and yellow** crosshair will always stay on the bearing between the two points but moves depending on the user's position.

Chainage and position relative to the start point of the line is displayed in the box at the bottom left.









(7)

A **green circle** denotes that the prism position is within tolerance and the point can be set-out. Press the **measure** or **record** buttons to stake the point.

The user can customise the visual display by pressing the point information or empty boxes at the bottom left of the screen **(#)**. Up to four options from the menu can be selected.



(8)

Any position at any chainage along the bearing of the line can be set-out, regardless of whether the user is between the start and end points. In this example we are 1.300 m from the start point.

A **flag** icon will denote a saved and recorded Staked point within the Map view.







Store Point			
Stake Codes No	te Data Mark		
Name	Value		
Design Refere	Line 103->104		
Occ. Pt.	STN 1		
Inst. Ht.	1.400 m 🔤		
BS	BS		
Design Pt.	103		
Design Note			
Design Code	K		
Design N	200.602 m		
Design E	101.676 m		
Design Elev	9.147 m		
HR	1.800 m		
Stake Pt.	103_104_stk1		
K a	: >		



(10)

After recording the point the following tabs display information about the staked point.

Here the user can **edit** the Name, Code and Layer or add notes and photographs if necessary.

Press the Green Tick to Store. This will then return the user to the Stake screen.

