

Measuring the center of the lamp post

Notebook: Quicksheets

Created: 14/12/2021 18:04

Updated: 15/12/2021 14:56

Author: Dariusz Liszka

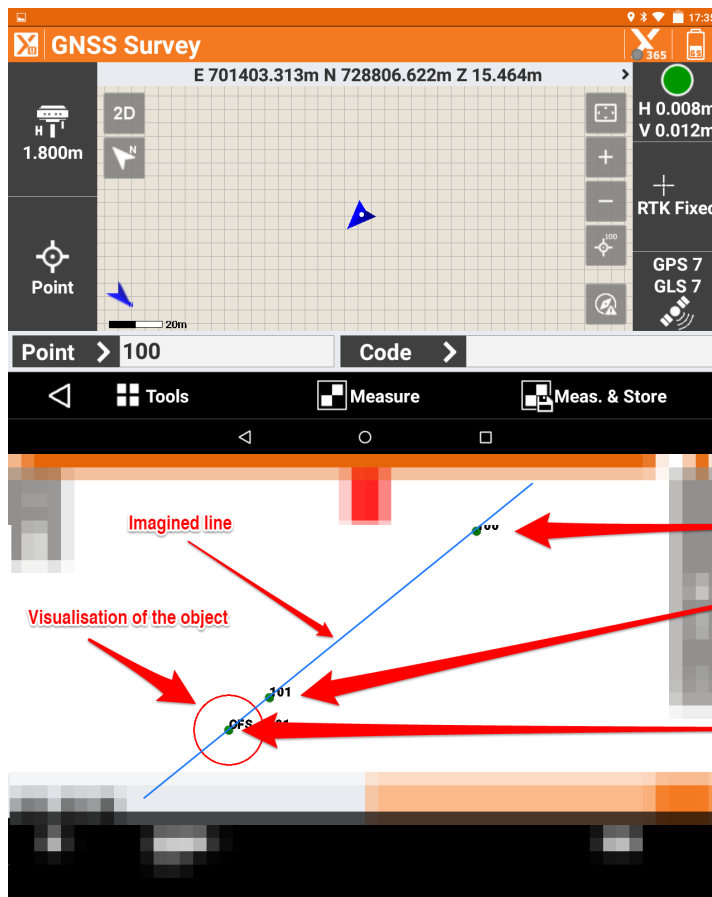
Tags: X-PAD

URL: www.hitechniques.ie

Measuring the center of the lamp post

Created: 20211214_DL

Problem: measuring the center of the pole, lamp post or any other "hidden point" using the Alignment Offset function in X-PAD



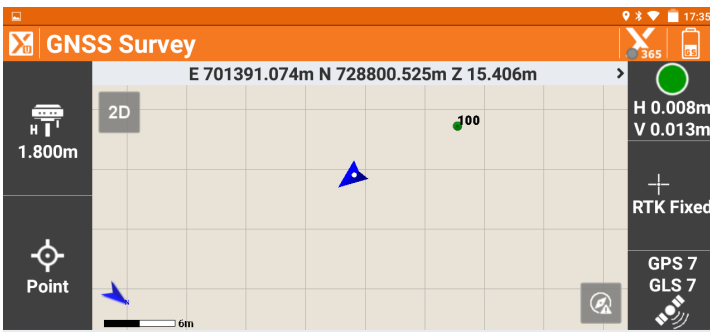
To start measure the first point at a distance between 2 to 4 meters away from the object you want to find the center of. Longer the distance the more accurate calculation.

We will measure two points and then create third point (the center of the object) as an offset point.

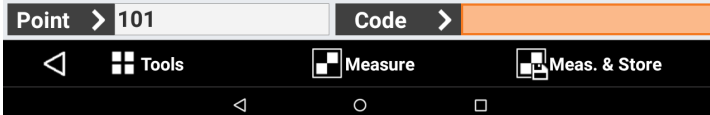
To make the process smooth it is important to keep the sequence of the measurements:

- first point at a distance from the object
- second point as close to the object as you can

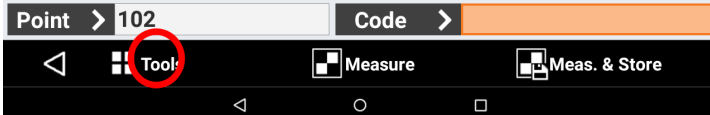
The next screenshot explains the desired setup in more details.



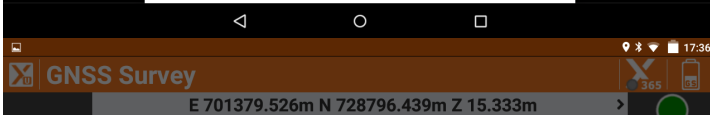
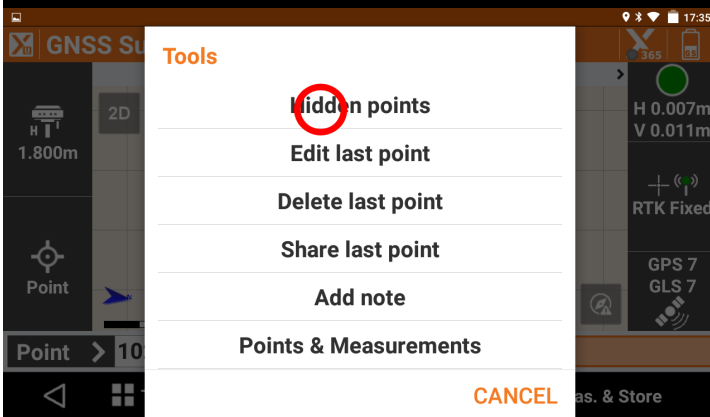
Measure the second point as explained on the previous screenshot.



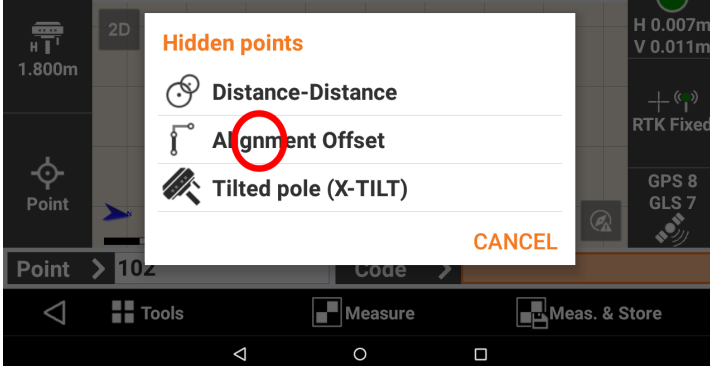
Once you have the points measured go to tools.

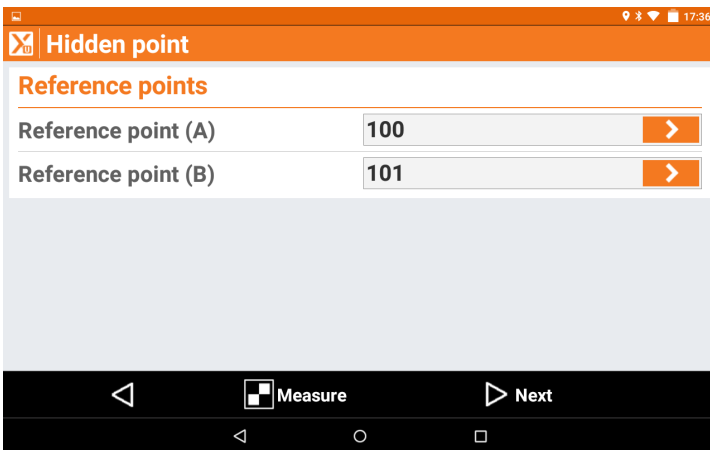


Tap on Hidden Points

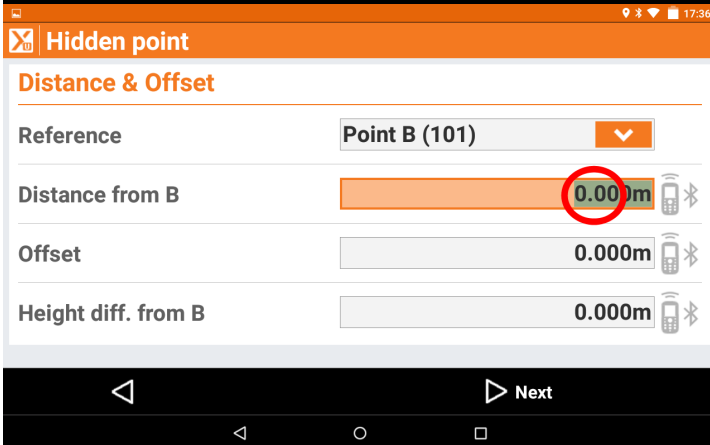


Tap on Alignment Offset

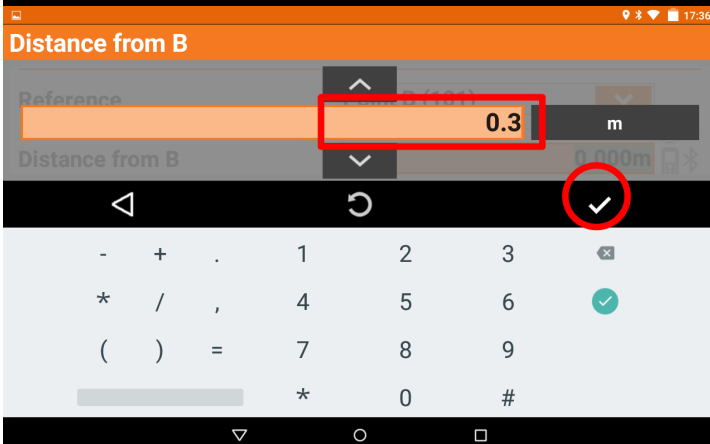




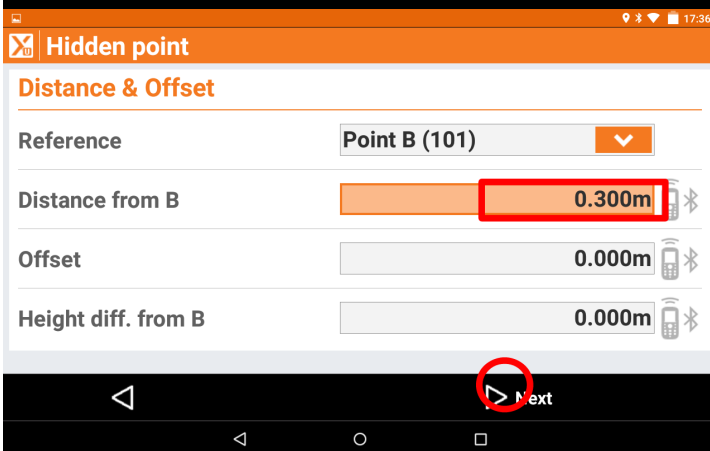
If you kept the sequence properly the software automatically add the last two measured points as a reference points.
If the desired points are not available you can choose them from the list or simply measure them.
Tap Next to go to the next screen.



Tap on the Distance from B field and input the distance from the second point to the center of the object. If it is pole the distance will be: the distance to the object + the diameter of the object / 2



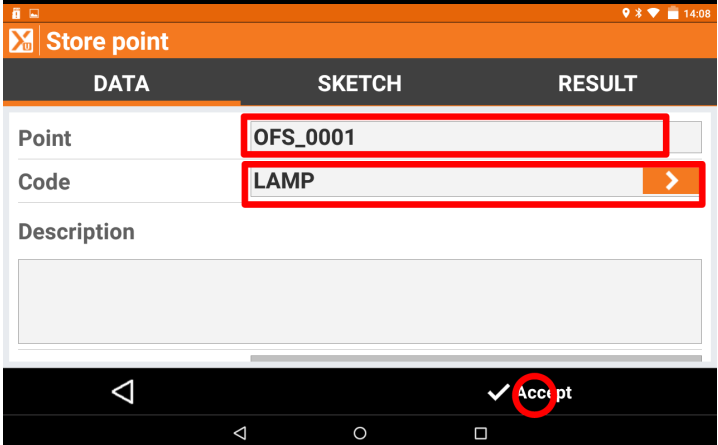
Enter the distance



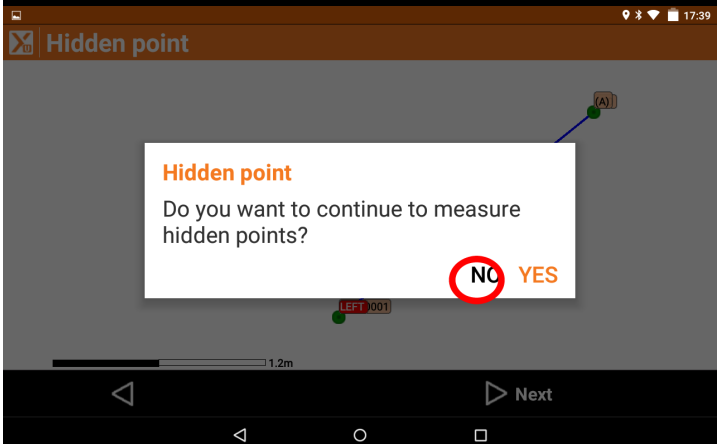
Tap Next



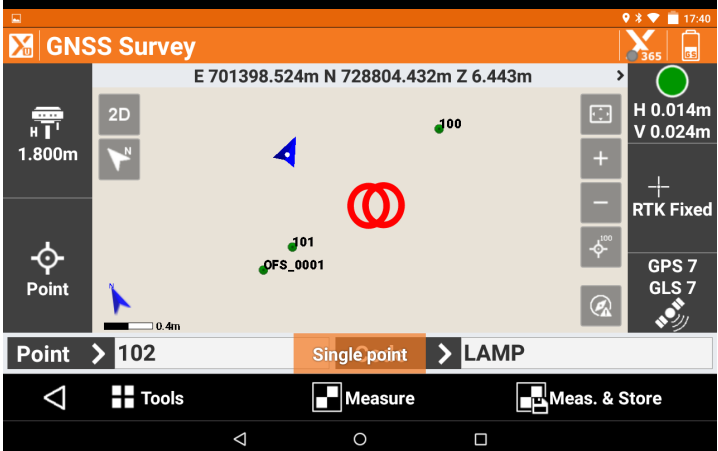
You'll see the newly created point.
Tap Next



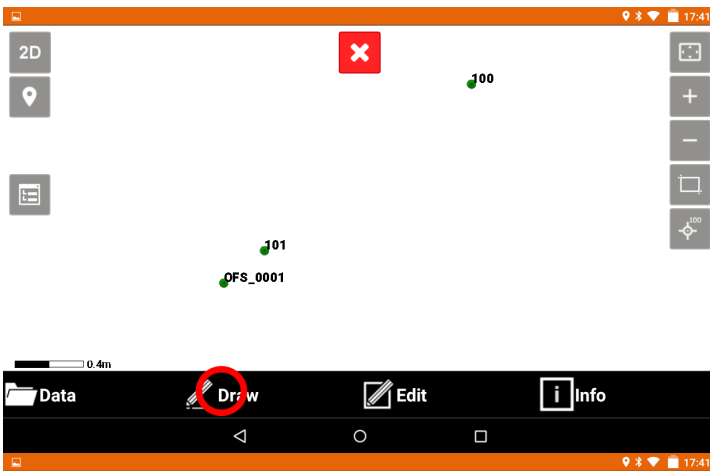
Name the point or leave the original name.
The OFS prefix can be configured in settings (Main Menu > Settings > GNSS > Points Name Tab).
Choose the code if required.
Tap Accept



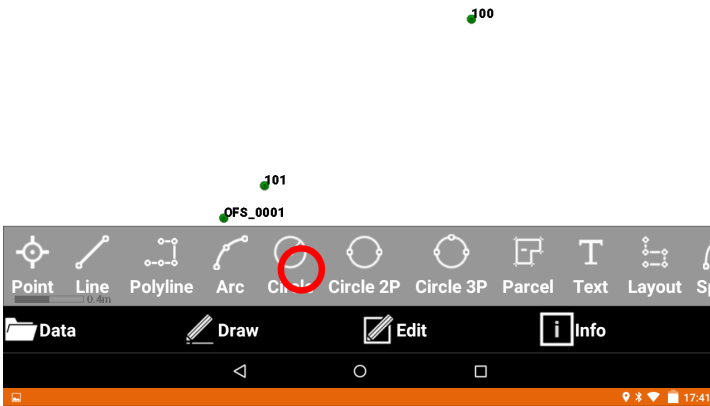
Tap No



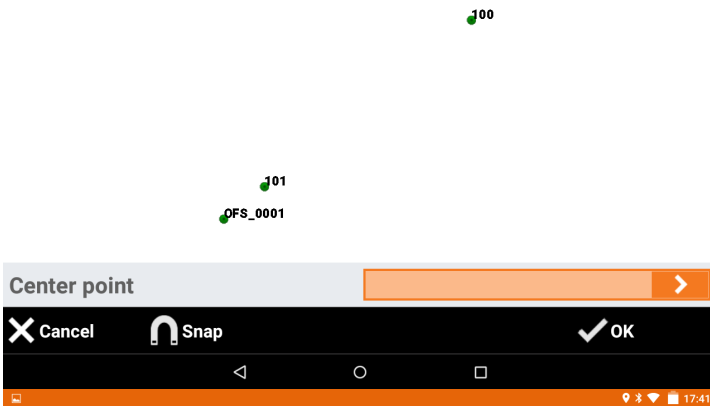
This is the screen with the created point.
To draw the post object around the created point double tap on the map screen



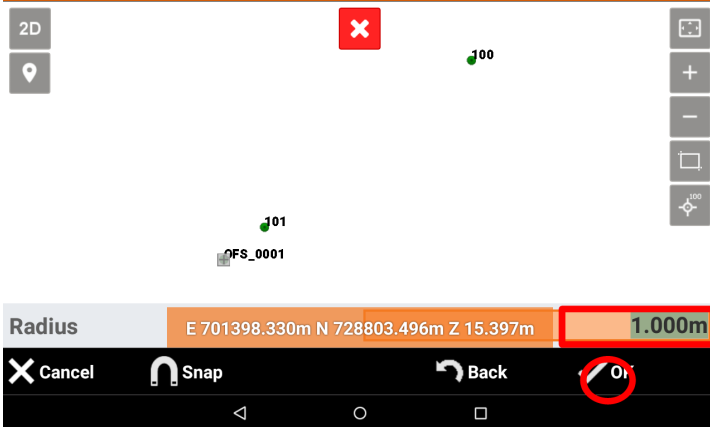
Tap Draw to get to the Draw menu



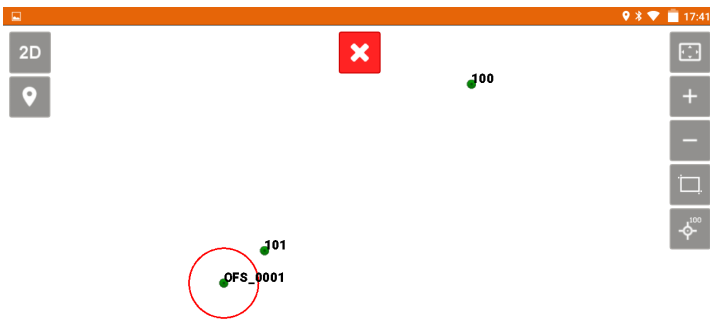
Tap Circle to draw a circle around the point by specifying the radius



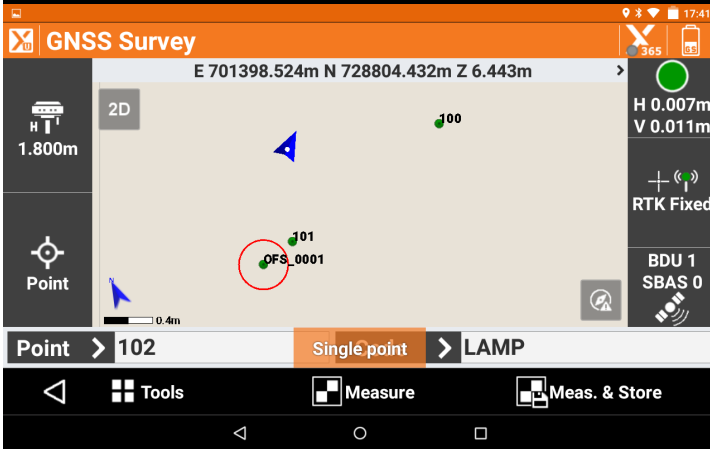
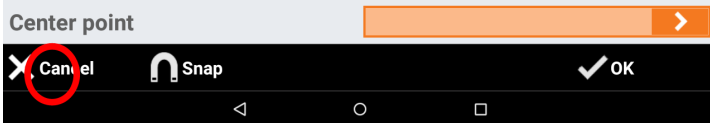
Tap on the point which you want to make a center of the circle.
If necessary change the snap function (default: Node).
Once you tap on the point X-PAD will automatically go to the next screen asking radius.



Input the required radius of the object and tap OK.



Tap Cancel unless you want to draw another circle.



Continue your job.