

**International Union of
Operating Engineers**

Local 49

Trimble SCS900

Field Reference Guide

• 2020 •

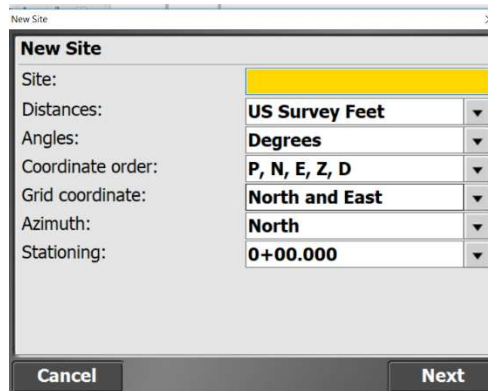
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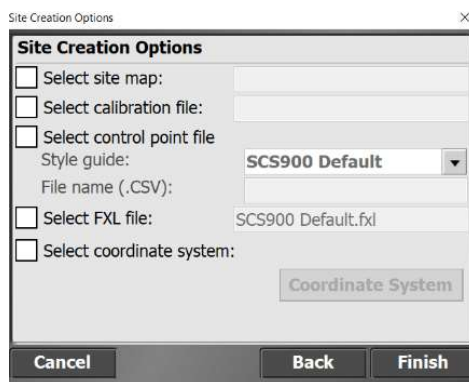
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Creating a New Site for Base Station

1. Open SCS900 and Select “New Sight” and name it by: Year & Job Name (Ex 2018 Hmong). Confirm these setting and tap Next



2. On the next pop up screen, this is where you load a project map, calibration file, control point file or an FXL file. Leave the boxes unchecked unless you have any of the above; if you do, check them, and browse to their locations. Tap “Finish” when step is completed.



3. It will then bring you back to the Open Site page. You will now need to create a new Work Order. Create a new work order by tapping “New Work Order,” and name it according to the task you’re starting with in the “Work Order” box. Tap “Finish” when done.

4. You have the option to “Select a Design.” If you do not have a design, choose “No Design Needed.” Tap “Accept” to continue.
5. It may then bring up the “Receiver Setup” screen. Refer to “Site Calibration with Base Station” sheet for next steps.

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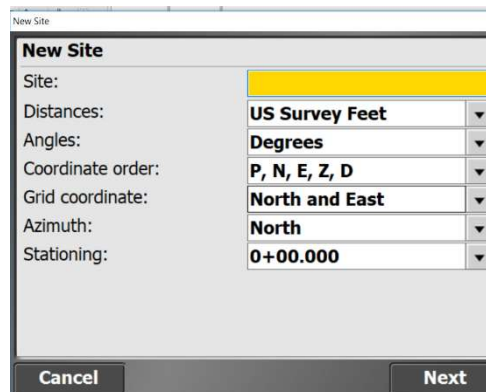
Connecting Rover to a Programmed Base Station

1. Before you begin, you will need to have already selected a Site, Work Order and Design (if needed). You will also need to know what Channel the Base is sending corrections out on.
2. From the main GPS screen, Tap Home – GPS – Connect. Choose the following options:
 - a. Mode – Rover
 - b. Connection Type – Bluetooth
 - c. Bluetooth Device – Your Rover's last 4 digits of serial number
 - d. Corrections Method – Radio in Receiver
 - e. Network ID – This is specific to what the Base was set to
 - f. Connected to Base – This is the specific name of the Base (populates automatically when connected to the correct channel)
 - g. Quick Release – Look up to confirm if you have one
 - h. Antenna Height – 6.562 (2 meters converted)
 - i. Confirm Settings and tap "OK" to continue.
 - j. If your site is calibrated, it does not hurt to recheck system by shooting a Control Point.

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Creating a New Site for VRS

1. Before opening SCS900 on the tablet, connect to the internet by either double-tapping “Air Card Watcher” or “Skylight”, then click “Connect”
2. Open SCS900 and Select “New Sight” and name it by year and job name (Ex 2018 Hmong).

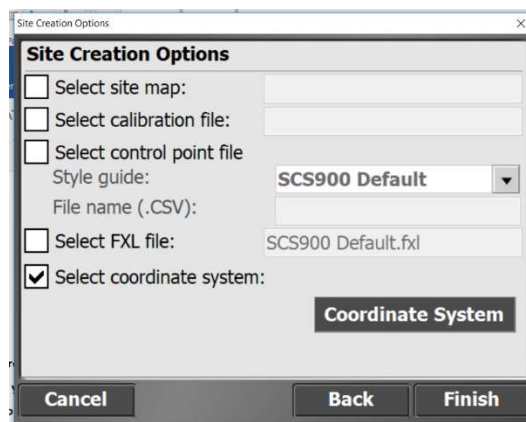


The 'New Site' dialog box is shown with the following settings:

Field	Value
Site:	[Empty text field]
Distances:	US Survey Feet
Angles:	Degrees
Coordinate order:	P, N, E, Z, D
Grid coordinate:	North and East
Azimuth:	North
Stationing:	0+00.000

Buttons: Cancel, Next

Confirm these settings and hit “Next”



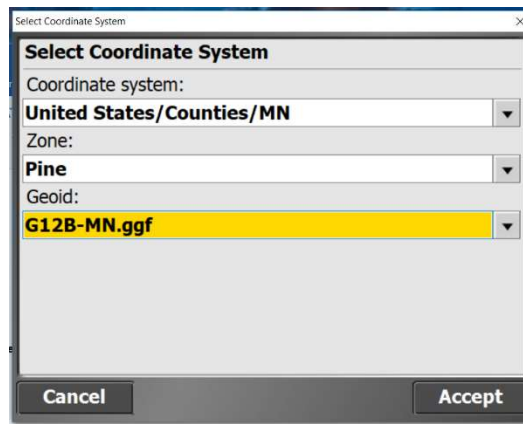
The 'Site Creation Options' dialog box is shown with the following settings:

Option	Value
Select site map:	[Empty text field]
Select calibration file:	[Empty text field]
Select control point file	[Empty text field]
Style guide:	SCS900 Default
File name (.CSV):	[Empty text field]
Select FXL file:	SCS900 Default.fxl
Select coordinate system:	☒ [Checked]

Buttons: Cancel, Back, Finish

Coordinate System

Make sure “Select Coordinate System” is checked and then press “Coordinate System”



Coordinate System – United States/Counties/MN

Zone – The county the job is in

Geoid – G12B-MN.ggf

Hit “Accept” when finished

Hit “Finish” on the Next screen

3. Create a new “Work order” and name it “Site Cal,” then tap “Finish.”
4. If you have a design, select it. If not, hit “Accept” at the bottom right-hand corner of screen.
5. The “Receiver Setup” screen will now be shown. Use the following:
 - **Mode – Rover**
 - **Connection Type – Bluetooth**
 - **Bluetooth Device – Your Rover (look for the last 4 digits of S/N)**
 - **Corrections Method – Internet**
 - **Server address – mn.cors.dot.state.mn.us**
 - **Port Number – 9000**
 - **Username – (specific to you/your company)**
 - **Password – (specific to you/your company)**
 - **Data stream – CMRx_NAD83(2011)**
 - **Quick Release – Yes**

- **Antenna Height – 6.562 usft**
 - **Hit “Accept” to finish Setup**
- 6. The Screen will now show the following message: “If you are ready to Calibrate the Site, Tap “Yes”” and then refer to the “Site Calibration with VRS” worksheet.**

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Connecting Rover to the VRS Network

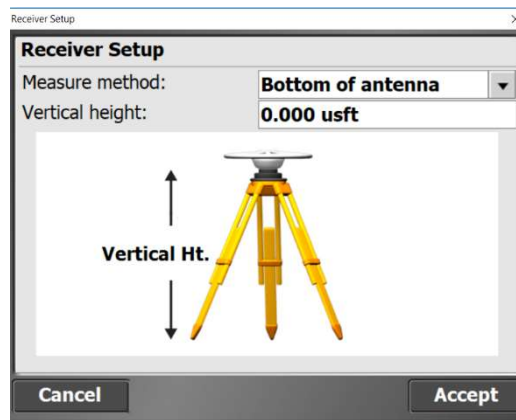
1. Before you begin, you will need to be connected to the internet and be in a Site, Work Order, or Design (if needed).
2. From the main GPS screen, Tap Home – GPS – Connect. Choose the following options
 - a. Mode – Rover
 - b. Connection Type – Bluetooth
 - c. Bluetooth Device – Your Rovers last 4 digits of serial number
 - d. Corrections Method – Internet
 - i. Server Address – mncors.dot.state.mn.us
 - ii. Port Number – 9000
 - iii. User Name – Specific to your Data Collector
 - iv. Server Password – Specific to you Data Collector
 - v. Tap Accept
 1. Data Stream – CMRx NAD83 (2011)
 2. Tap Accept
 - e. Quick Release – Look up to confirm
 - f. Antenna Height – 6.562 (2 meters converted)
 - g. Confirm Setting and tap OK
 - h. If your site is calibrated, it does not hurt to recheck system by shooting a Control Point when prompted

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Site Calibration with Base Station

1. Before starting this process, you will have already created a “New Site” and have a control point file inside the data collector.
2. Set the Base up on the pole and turn on.
3. Open SCS900 on the Tablet and open current site, hit “Accept.”
4. On the Receiver Setup screen, make sure the following settings are as follows:
 - Mode – Base
 - Connection Type – Bluetooth
 - Bluetooth Device – “last 4 digits of your Base Serial number (on back of Base)”
 - Correction Method – Radio in Receiver
 - Network ID – 12 (you can use another if channel isn’t clear)
 - Base Position – Unknown position
 - Base Name – “Company Name” Base
 - Antenna – Zephyr Geodetic Model 2 (confirm on bottom)

This screen pops up, confirm settings and tap “Accept.”



- Corrections – CMRx = Newer Machines CMR+ = Older Machines
- Hit Accept

5. From the home screen, tap Home – GPS – Connect. Use these settings:
 - Mode – Receiver
 - Connection Type – Bluetooth
 - Bluetooth Device – (last 4 digits of Rover S/N)
 - Correction Method – Radio in Receiver
 - Network ID – 12 (unless you used a different channel when you set Base)
 - Connected to Base – (the name of Base Control will show here)
 - Using Quick Release – yes (check to confirm)
 - Antenna height – 6.562 usft (2 Meters)
 - Hit “Accept” to Finish

6. From the home screen, it should pop up asking if you want to calibrate the Site, tap Yes. If not, go to Home – GPS – Site Calibration

7. Tap Add Point and select a control point and confirm these settings. **Change minimum measuring time to 120 seconds**. Make sure the Rod hasn’t moved off the point you are observing and is still level before tapping Start

Static Mode Settings

Measure method: Bottom of Quick Release

Vertical height: 6.562 usft

Horizontal tolerance: 0.082 usft

Vertical tolerance: 0.082 usft

Minimum measuring time: 30

Time unit: Seconds

☐ Log data in receiver

Recording interval (seconds): 5

Cancel Back Start

Tap Add Point to continue burning in Control Points. Do this until you are done and tap “Finish”

Site Calibration

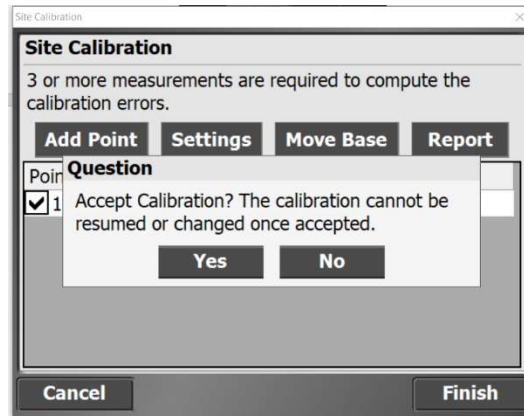
3 or more measurements are required to compute the calibration errors.

Add Point Settings Move Base Report

Point Name	H Residuals	V Residuals
☒ 1	☒ ---	☒ ---

Cancel Finish

This screen will then pop up, tap Yes



Tap Yes when the next screen pops up and then the Site Calibration is complete. It will then ask if you want to store the Base as a control point, tap Yes.

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One or Multiple Point Site Calibration - VRS

1. For one-point calibration, start here. Multiple point calibration, skip to Step 2.
 - Before starting this process, you will have already created a “New Site” and you should already be connected to a Rover. If not, refer to “Creating a New Site for VRS”.
 - Find a spot where you want to perform the one-point calibration. With the Bi-Pods attached to the Rover Rod, use the Bi-Pods to level the Rod.
 - Once leveled up, do not move the Rod and write down your Northing, Easting, and Elevation.
 - Tap HOME – GPS – Enter/Edit Control Points.
 - Tap ADD
 - Type – 3D Control
 - Point Name – 1
 - Point Code – CP
 - Northing – (enter the Northing you wrote down)
 - Easting – (enter the Easting you wrote down)
 - Points Elevation – Key In
 - Elevation – (enter the Elevation you wrote down)
 - Press Save and Close to exit.
2. For multiple point, you should already have created a New Site, be connected to the Rover and have a Control Point file inside the Site folder.
3. From the home screen, tap Home – GPS – Site Calibration
4. Tap “Add Point” and select the point you just created or a control point and confirm these settings. Make sure the Rod hasn’t moved and is still level before tapping Start

Static Mode Settings

Measure method: Bottom of Quick Release

Vertical height: 6.562 usft

Horizontal tolerance: 0.082 usft

Vertical tolerance: 0.082 usft

Minimum measuring time: 30

Time unit: Seconds

☐ Log data in receiver

Recording interval (seconds): 5

Cancel Back Start

If you have a bigger Site with multiple Control Points to burn in, tap “Add Point” to continue burning in Control Points. Do this until you are done and tap “Finish”

The screenshot shows a 'Site Calibration' dialog box. At the top, it says '3 or more measurements are required to compute the calibration errors.' Below this are four buttons: 'Add Point', 'Settings', 'Move Base', and 'Report'. A table follows with three columns: 'Point Name', 'H Residuals', and 'V Residuals'. The first row contains a checked checkbox, the number '1', a checked checkbox, and three dashes '---'. At the bottom are 'Cancel' and 'Finish' buttons.

Point Name	H Residuals	V Residuals
☒ 1	☒ ---	☒ ---

After tapping Finish, this screen will then pop up, tap “Yes”

This screenshot shows the same 'Site Calibration' dialog box, but with a 'Question' pop-up window in the foreground. The pop-up asks 'Accept Calibration? The calibration cannot be resumed or changed once accepted.' and has 'Yes' and 'No' buttons. The background dialog box is partially obscured but its buttons and table are still visible.

Tap “Yes” when the next screen pops up and then the Site Calibration is complete.

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Burning a Base Control Point with VRS

1. You must be in the current site, be connected to the Rover using VRS, and have a Base post in the ground and ready.
2. Take the Rover off of the Rod with Quick release. Next, unscrew the quick release from the Rover. Once removed, screw the Rover onto the base post.
3. From the home screen, tap Home – GPS – Measure Control Point. Then tap “Measure.”

Point name – (name it what you want)

Point Code – (your company base/refer to your company standard)

Tap “Accept”

Use the following settings and press Start

Static Mode Settings

Measure method:	Bottom of antenna
Vertical height:	0.00 ?
Horizontal tolerance:	0.082 usft
Vertical tolerance:	0.082 usft
Minimum measuring time:	300
Time unit:	Seconds
☐ Log data in receiver	
Recording interval (seconds):	5

Cancel Start

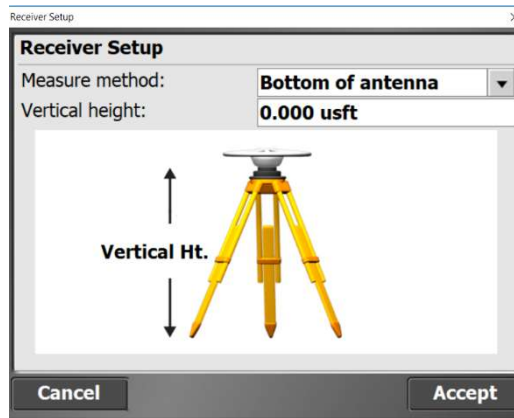
4. The point is now stored and you can now set the Base Station equipment onto the post for use with Machine Control. (See Setting a Base using Control Point)

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Setting Base after Burning Control Point with VRS

1. Before starting, make sure you are in the current site, and the base station is set up on the post and turned on.
2. From the home screen of Tablet, tap Home – GPS – Connect
 - Mode – Base
 - Connection Type – Bluetooth
 - Bluetooth Device – (last 4 digits of Base S/N)
 - Network ID – 12
 - Base Position – Control Point
 - Base Name – (select the point you just burnt in)
 - Antenna – Zephyr Geodetic Model 2 (confirm on bottom side of Base Antenna)

Use this setting:



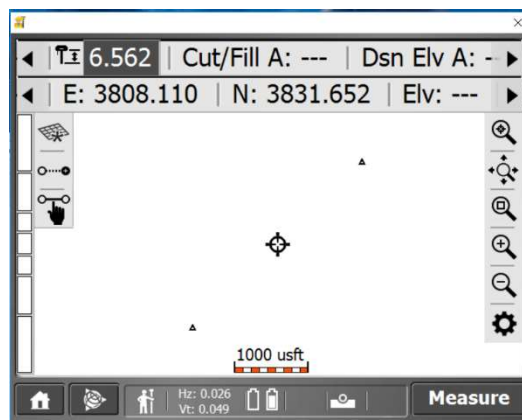
- Antenna Height – 0.00 usft
 - Corrections – CMRx (newer Machines) CMR+ (older machine)
 - Press “Accept” to finish.
3. You would then need to connect the Rover to the Base. From the main screen Home – GPS – Connect. Change the mode to the following settings.
 - Mode – Rover
 - Connection Type – Bluetooth
 - Bluetooth Device – (S/N of the Rover you are using)

- **Correction Method – Radio in Receiver**
- **Network ID – The channel you just set the Base to (usually 12)**
- **Connected to Base – (the name of Base Control will show here)**
- **Using Quick Release – yes (Check to confirm)**
- **Antenna height – 6.562 usft (2 Meters)**
- **Hit “Accept” to Finish**

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Topo a Stockpile and Calculate Volumes Using SCS900

1. Before starting, your Rover must be connected and in the current "Site."
2. Create a new work order Home – Site – Open Site and create the new Work Order. Name it accordingly – Site Stockpile Date (Ex Hmong Stockpile 180911)
3. From the home screen



Press this button:



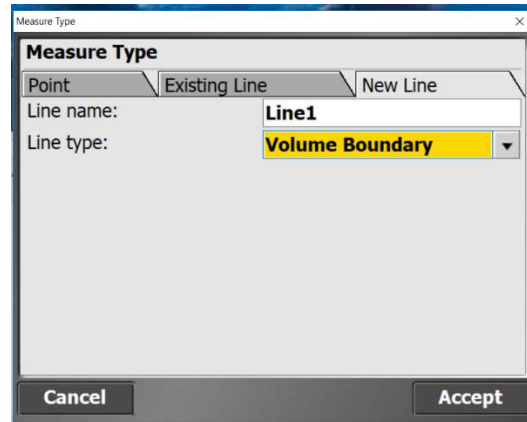
This screen then pops up:

The screenshot shows the 'Measure Type' dialog box. It has three tabs: 'Point', 'Existing Line', and 'New Line'. The 'Existing Line' tab is selected. The dialog contains the following fields:

- 'Point name:' with a yellow input field.
- 'Point code:' with a white input field.
- 'Point type:' with a dropdown menu set to 'Surface'.
- 'Show every time:' with a dropdown menu set to 'Yes'.

At the bottom, there are 'Cancel' and 'Accept' buttons.

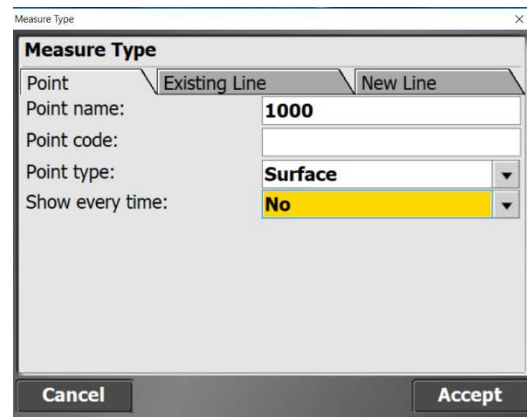
Press the tab, “New Line,” and change line type to “Volume Boundary,” then press “Accept.” Note - you can change the name of the line if you have multiple Stockpiles to Topo on this work order.



4. Starting at the toe of the stockpile, press “Measure” to take a shot. Take shots all the way around the toe of the pile. You will see a line is drawn connecting each shot you take. Take your last shot short of where you started and press this button:



Then press the “Point” tab and change “Point Name” from “Point 1” to 1000, change point code to “Pile” and change “Show Every Time” to “No.”

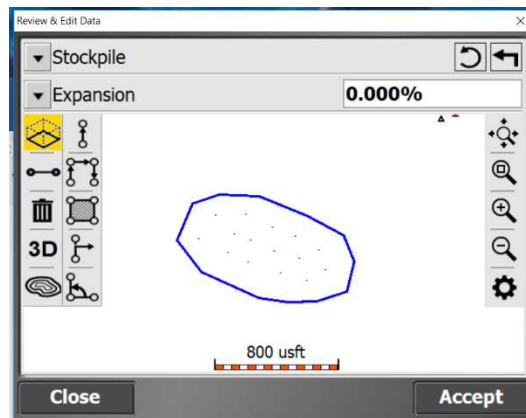


5. You can now start measuring shots of the stockpile by leveling up the rod where you want to take a shot and pressing “measure.” Make sure to shoot or topo highs, lows points, and valleys of the pile.

6. Once done measuring the pile, from the main screen press Home – COGO – Review & Edit Data. Make sure this box is selected:



Then select the Volume Boundary line you created at the Base of the pile. Confirm at the top of the screen it says “Stockpile” and “Expansion” and that the expansion factor is 0.00%. Then press “Accept.”

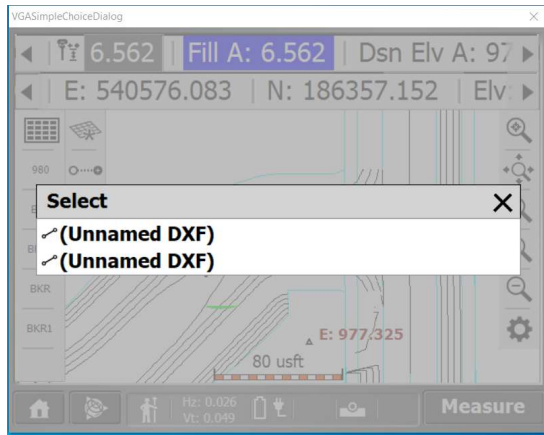


7. The volume will be calculated based off of your shots. Take a picture of the volume and show/text your Site Foreman/Superintendent.
8. You can also upload the data to “Connected Community.” Refer to “Sending and Receiving Data through Connected Community.”

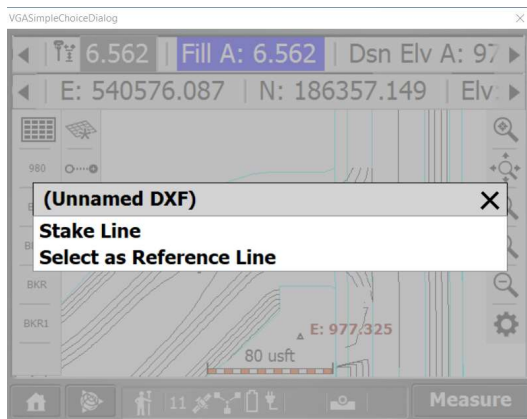
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Staking a Line

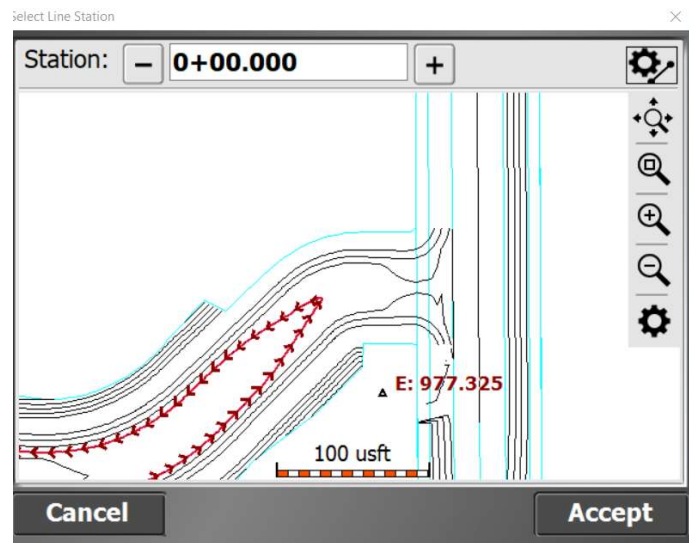
1. Before starting, You Rover must be Connected and in the current “Site”
2. To stake a line from the Home Screen, do the following:
 - a. Zoom in and then press and hold the line you want to stake
 - b. Release when the pop up appears. If this image pops up, it means there are multiple line on top of each other and wants you to choose which line you want to stake.



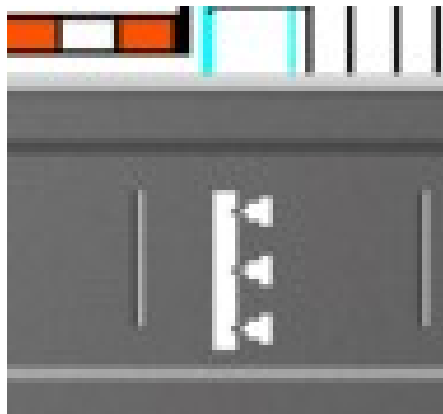
- c. Then, this will pop up next. Tap, Stake Line



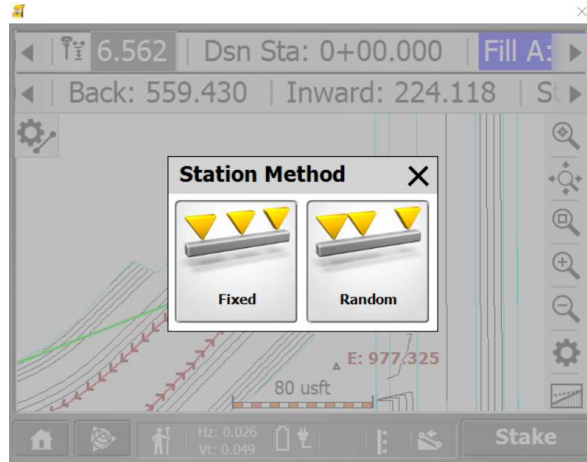
- d. This screen will then pop up. If you wanted to enter a specific station range for a centerline alignment, you can do so at the top or tap Accept.



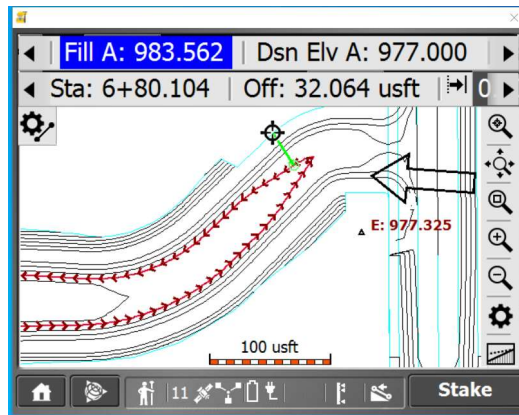
- e. The first thing you may want to do, is tap this button with



- f. This screen will pop up, tap Random.



- g. This changes from staking the beginning of the line to staking the line perpendicular and showing your station and offset of the line as shown below. If the line you are staking has elevation (Contour, back of curb, etc.) it will also give you Cut/Fill information as shown below.

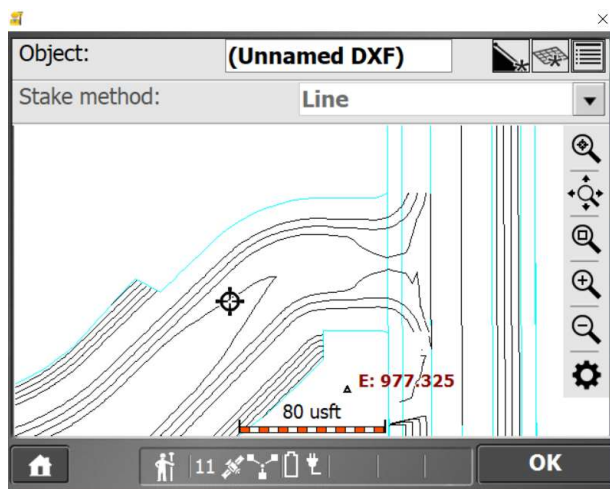


- h. If your Data Collector doesn't show these options, first try tapping the arrows at the top right-hand side of the screen. There are 2 different arrows, one for Information bar 1 (the top arrow) and one for Information bar 2 (the one just below it). Try toggling through the top one first, then try the second one. If Station and offset are still not an option, tap the Trimble button near the bottom left hand side of the screen.

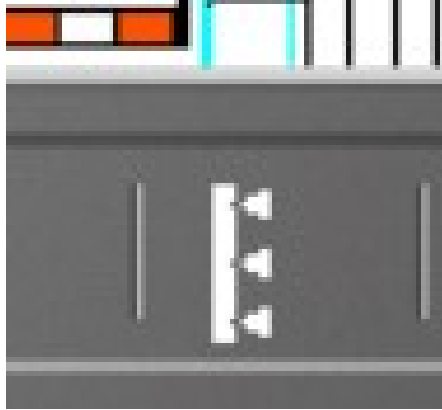


1. Then tap Settings
2. Then tap Configure Info Bars
3. Then choose either Information Bar 1 or 2 and tap Station, Offset, Stakeout line offset H and Surface offset. I prefer these on Information Bar 2. Tap Accept to get back to Main Screen.
4. Toggle the arrows near the top right-hand side of the screen and you should now see Station (Sta) and Offset (Off). Remember, the top of the screen always refers to North. Also, a negative (-) offset means you are left of the line. A positive (+) means you are right of the line.
5. To end staking of a line, Tap Home – Measure

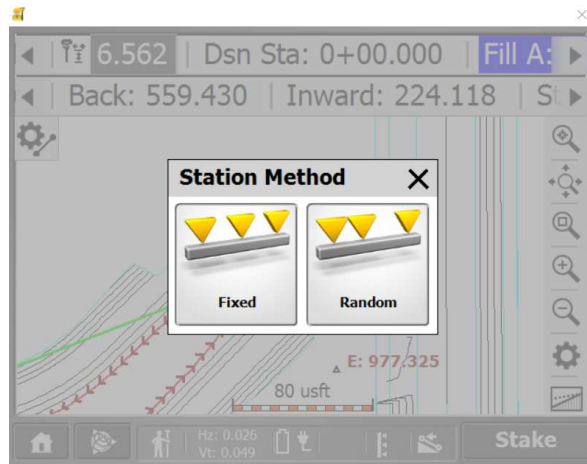
3. Another option for staking a line is to do the following:
 - a. Tap the Home – Stake and this screen pops up



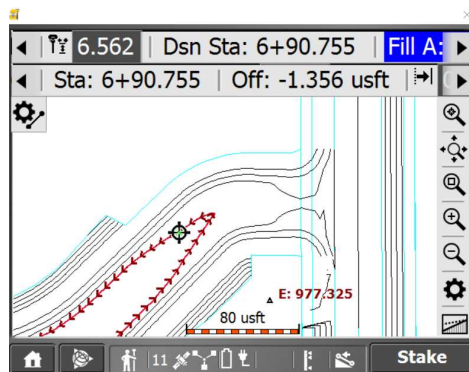
- b. Pan and zoom in on the line you want to stake and Tap on it. After selecting, Tap OK at the bottom right hand corner of screen.
 - c. The first thing you may want to do, is tap this button with



d. This screen will pop up, tap Random.



e. This changes from staking the beginning of the line to staking the line perpendicular and showing your station and offset of the line as shown below. If the line you are staking has elevation (Contour, back of curb, etc.) it will also give you Cut/Fill information as shown below.



- f. If your Data Collector doesn't show these options, first try tapping the arrows at the top right-hand side of the screen. There are 2 different arrows, one for Information bar 1 (the top arrow) and one for Information bar 2 (the one just below it). Try toggling through the top one first, then try the second one. If Station and offset are still not an option, tap the Trimble button near the bottom left hand side of the screen.

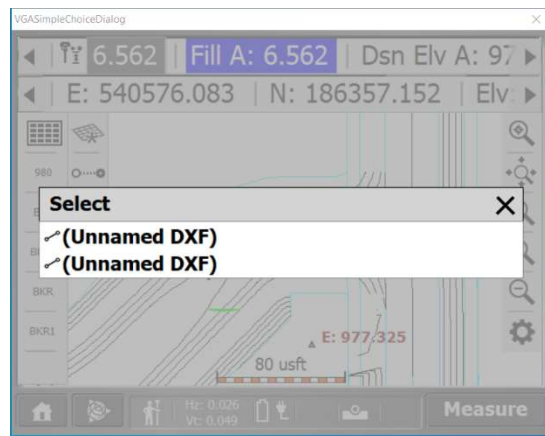


1. Then tap Settings
2. Then tap Configure Info Bars
3. Then choose either Information Bar 1 or 2 and tap Station, Offset, Stakeout line offset H and Surface offset. I prefer these on Information Bar 2. Tap Accept to get back to Main Screen.
4. Toggle the arrows near the top right-hand side of the screen and you should now see Station (Sta) and Offset (Off). Remember, the top of the screen always refers to North. Also, a negative (-) offset means you are left of the line. A positive (+) means you are right of the line.
5. To end the staking of a line, Tap Home – Measure.

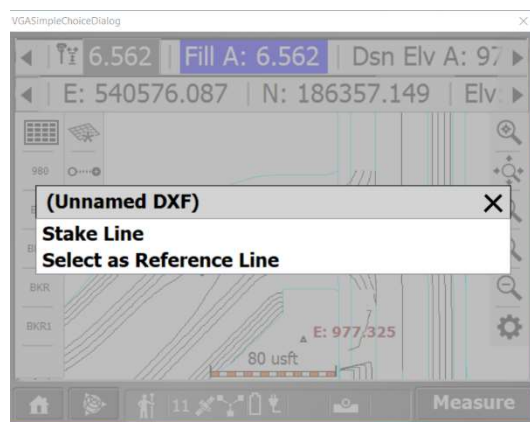
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Staking a Line with Horizontal Offset

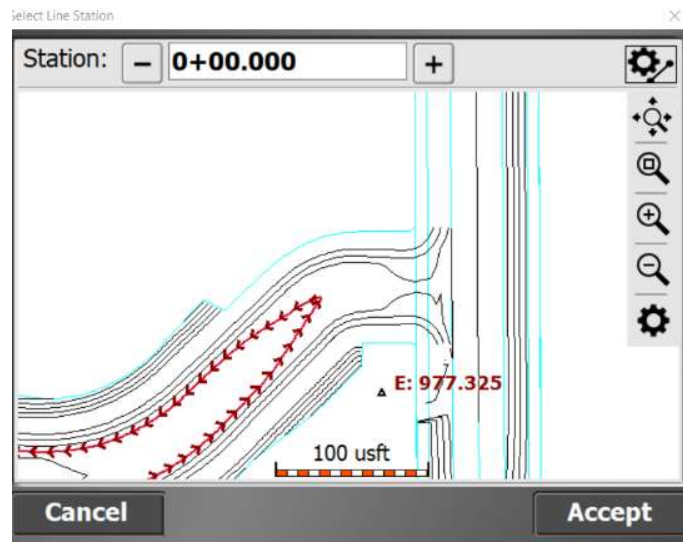
1. Before starting, You Rover must be Connected to a Base Station or through the VRS Network and in the current "Site"
2. First, you want to Zoom and Pan around the screen to find the line you want to Stake. When you find that line, Press and hold until a pop-up screen shows up, then release.
3. If this screen pops up, it is because there are multiple lines on top of each other. Lines can also be Labeled by your GPS Designer. Select one to continue



4. This screen then pops up, Tap Stake Line



5. This screen will then pop up. If you wanted to enter a specific station range for a centerline alignment, you can do so at the top or tap Accept.

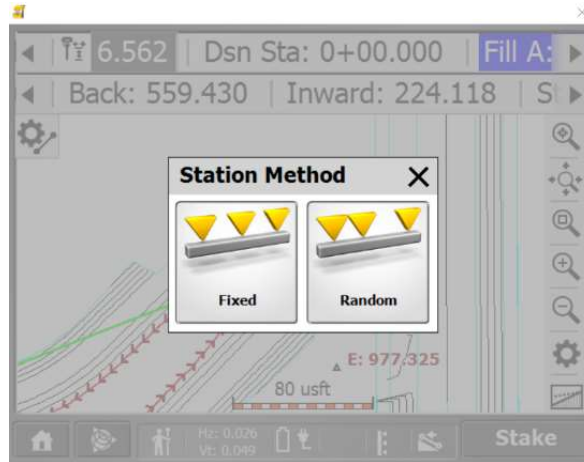


The first thing you may want to do is tap this button.

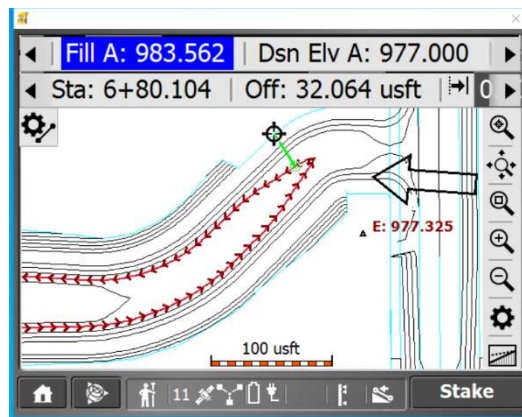


This screen will pop up, tap Random.





This changes from staking the beginning of the line to staking the line perpendicular and showing your station and offset of the line as shown below. If the line you are staking has elevation (Contour, back of curb, etc.) it will also give you Cut/Fill information as shown below.



If your Data Collector doesn't show these options, first try tapping the arrows at the top right-hand side of the screen. There are 2 different arrows, one for "Information Bar 1" (the top arrow) and one for "Information Bar 2" (the one just below it). Try toggling through the top one first, then try the second one. If Station and Offset are still not an option, tap the Trimble button near the bottom left hand side of the screen.

- Then tap Settings
- Then tap Configure Info Bars

- Then choose either Information Bar 1 or 2 and tap Station, Offset, Stakeout line offset H and Surface offset. I prefer these on Information Bar 2. Tap Accept to get back to Main Screen.
- Toggle the arrows near the top right-hand side of the screen and you should now see Station (Sta) and Offset (Off). Remember, the top of the screen always refers to North. Also, a negative (-) offset means you are left of the line. A positive (+) means you are right of the line.

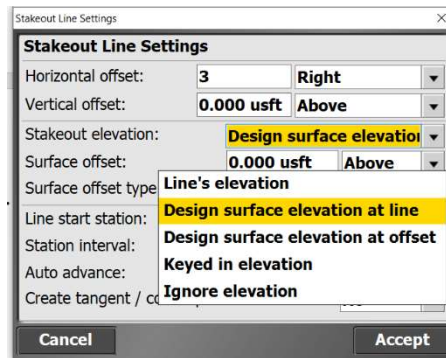
6. Now that your Information Bars are set up, tap this button



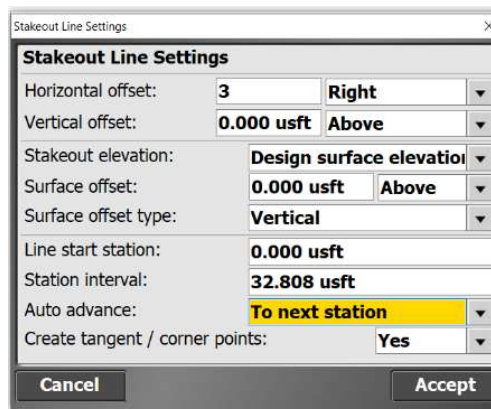
7. This screen pops up

Stakeout Line Settings	
Horizontal offset:	0.000 usft Left
Vertical offset:	0.000 usft Above
Stakeout elevation:	Line's elevation
Line start station:	0.000 usft
Station interval:	32.808 usft
Auto advance:	To next station
Create tangent / corner points:	No
Cancel Accept	

Let's say you wanted to stake that line 3 right, 0.00 vertical offset, but you wanted the design elevation of the original line. This would be typical for staking curbs. Choose the following options:



Leave the rest of the settings alone and Tap Accept



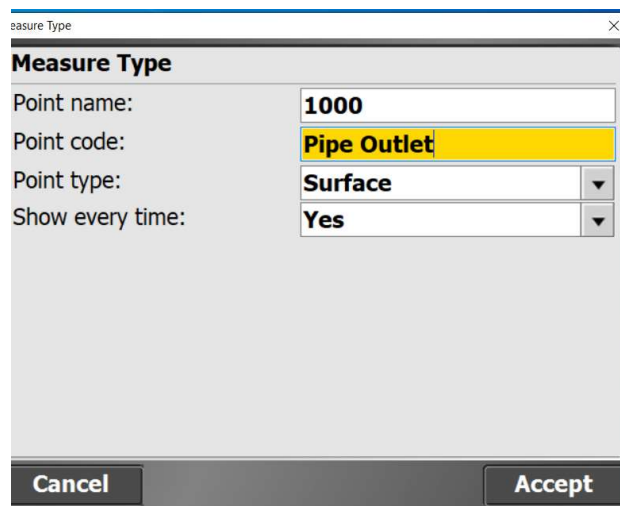
You will see the program draws a line 3 feet right of the original line, your offset is now referencing the new line. You are also staking the elevation of the original line. If your line offset the wrong direction, simply tap the button on the Information Bar and change Right to Left. Left and right are based upon which way the arrows are on the original line you held down on to stake. The arrows point the direction they are flowing. Flowing with the arrows, left is left and right is right. Remember, left offset is a negative (-) number and right offset is a positive (+) number.

8. When finished staking, Tap Home – Measure.

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Storing Points and Staking a Line between 2 Points

1. Before starting this procedure, you need to be:
 - a. In the Current Project
 - b. Rover setup and connected to a Base or VRS Network
2. First thing you will need to do is store 2 points from field shots. Walk to the object you wish to store a point on, level up the rod. To store a point, Tap Measure near the bottom right hand corner of the screen. This screen pops up



Measure Type

Point name: 1000

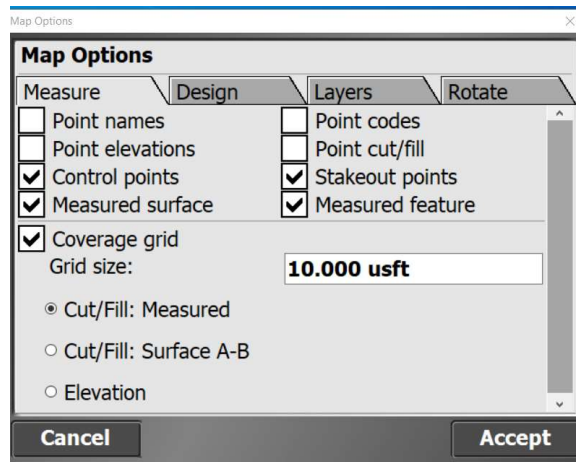
Point code: Pipe Outlet

Point type: Surface

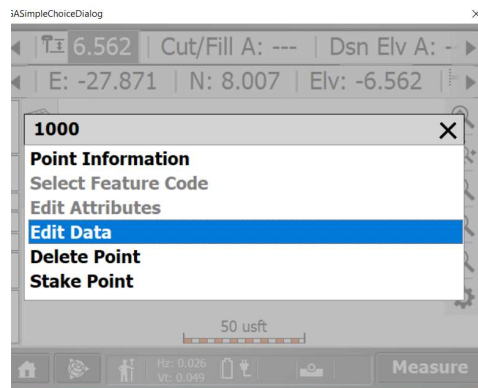
Show every time: Yes

Cancel Accept

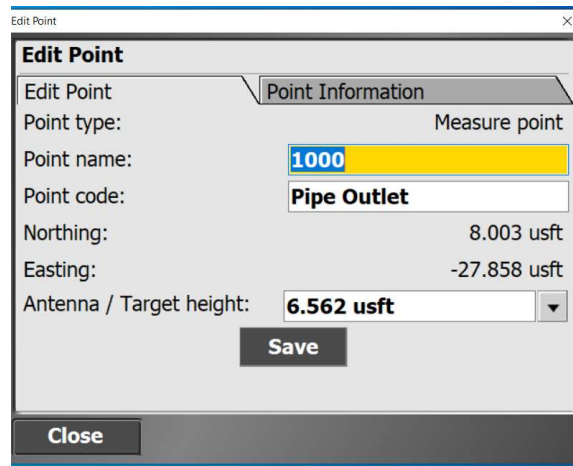
- a. Change Point Name to 1000
 - b. Type in a Point Code (this describes what you are shooting)
 - c. Point Type is generally always Surface
 - d. Show Every time means, every time you shoot a point, this screen will pop up. If you are topointing something that has the same description, set this option to No. If you chose No and want to change the point description, go to Home - Measure. Then tap Measure in the bottom right hand corner and you can change this setting back to Yes.
3. A point was stored for your current location. If you do not see the point or you just want to see the elevation of the point, tap the  on the middle right hand side of the screen. This screen pops up



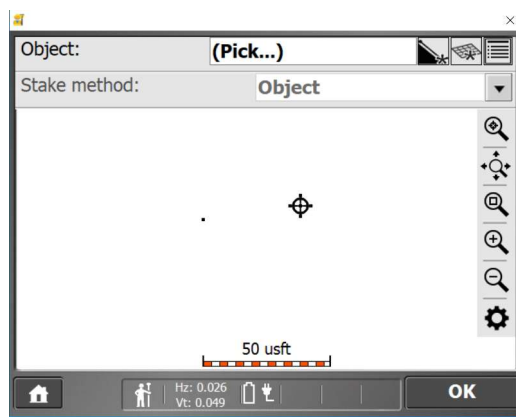
- a. On the measure tab, you can check items you wish to see for point information, or uncheck to not see them on your screen.
 - b. The Design Tab has more options you can check or uncheck if you do or do not want to see them on your screen.
 - c. The Layers Tab allows you to toggle on and off certain layers. This helps to declutter the Screen and only display what you want.
 - d. The Rotate tab has different options for screen orientation. I prefer the default Static.
 - e. Panel Display allows you to configure the screen setting how you want.
 - f. Tap ACCEPT when finished.
4. You can also change the elevation of the point you just stored. Press and hold on the point, release when this screen pops up



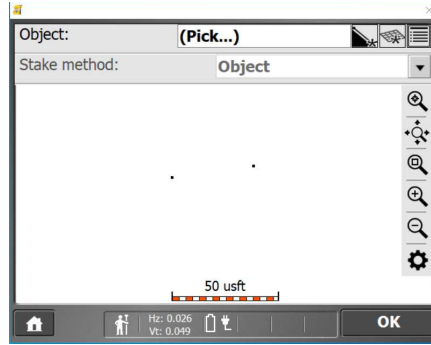
- a. To change the points elevation, tap Edit Data and this screen pops up



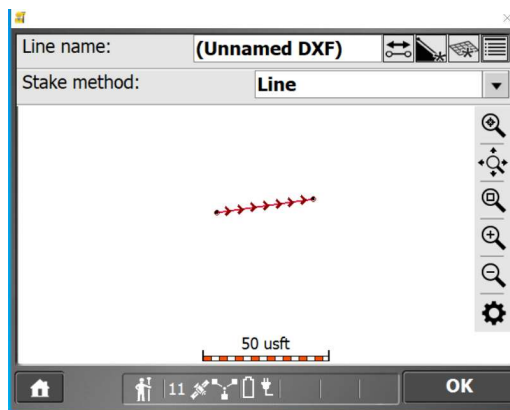
- b. Tap the down arrow on the far-right hand side of Antenna/Target height. Change it to Elevation. Now type in the box the elevation of what you want it to be set to.
 - c. Make sure to Tap SAVE before exiting or your changes will not be Saved.
 - d. After saving, Tap Close. You will see the elevation of the point changed.
5. Now walk to where you want to store you second point and store another point.
6. Tap Home - Stake and this screen pops up



- a. Tap this icon  near the upper right corner and this screen pops up



- b. It tells you to tap points to define the line. Tap on one point and then the other. Tap ACCEPT and this screen pops up.



- c. If you wanted the arrows to flow the opposite direction than the default, tap this button . That reverses the arrow direction. Tap OK to continue.
 - d. The next screen that pops up allows you to change the starting station if you like. Tap ACCEPT to continue
7. By default, the program wants you to stake the begin station first. To change this, Tap  and then Tap Random. This will change the stake method to Station and offset. Remember, negative (-) offsets means you are left of the line and positive (+) offsets means you are right of the line.
 8. To exit the command, Tap Home - Measure

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Sending and Receiving Data through Connected Community

- 1. Before starting this procedure, you will need to have Internet Access through the Tablet, WiFi or Hotspot through a Phone.**
- 2. You will need to get ahold of your GPS person so they can set your device as “Registered” inside of Trimble Connected Community (TCC). Let him know which device you are using.**
- 3. You do not need to have the Rover Connected to a Base Station or VRS but, it can be. You will need to be in the “Site” in which the data was taken.**
- 4. From the main screen press Home – Import/Export – Connected Community.**
 - This will be the screen initially comes up, confirm these settings:**
 - Synchronize – Site**
 - Site – Confirm it’s the current site you want uploaded or downloaded if the site does not exist on your tablet**
 - Press “Accept”**
- 5. When finished, call them so they know the data transferred successfully and that it is ready to be downloaded.**