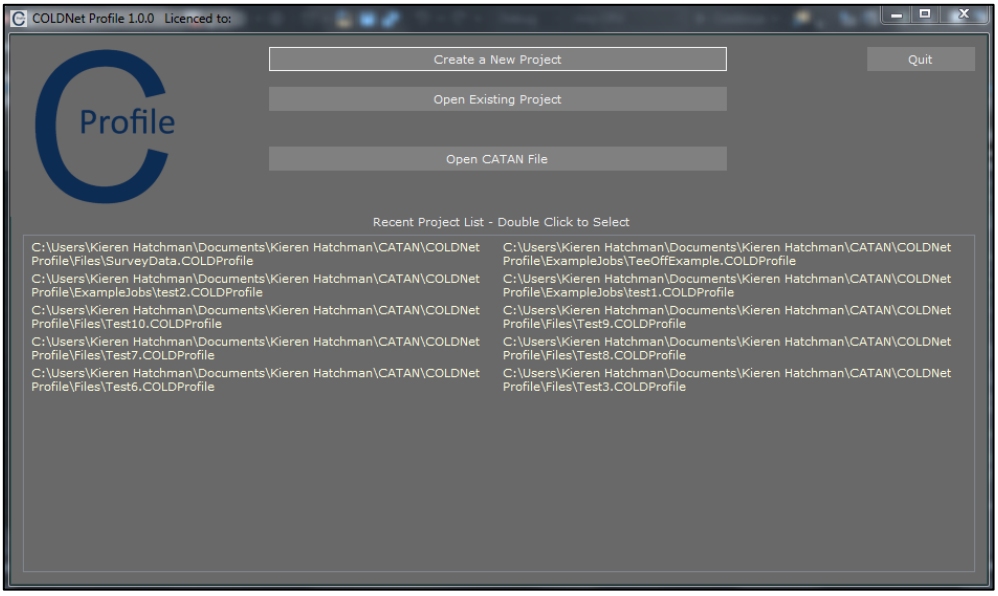
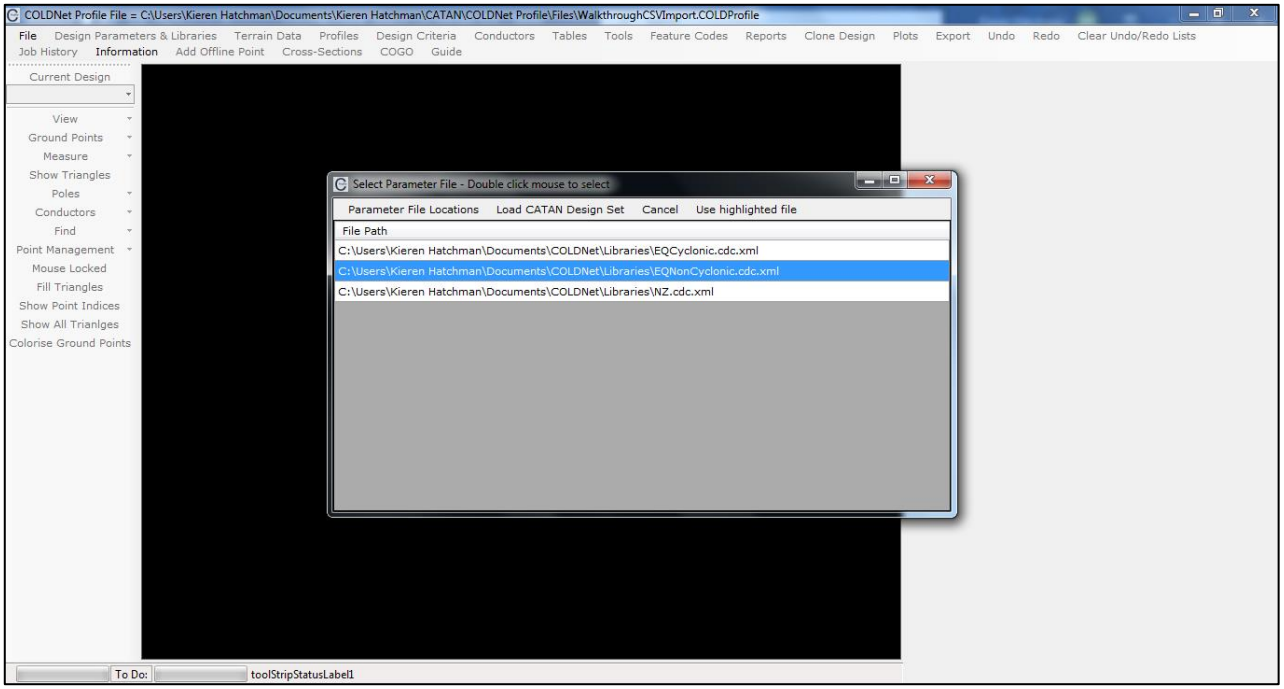
COLDNet Profile – Import CSV Example

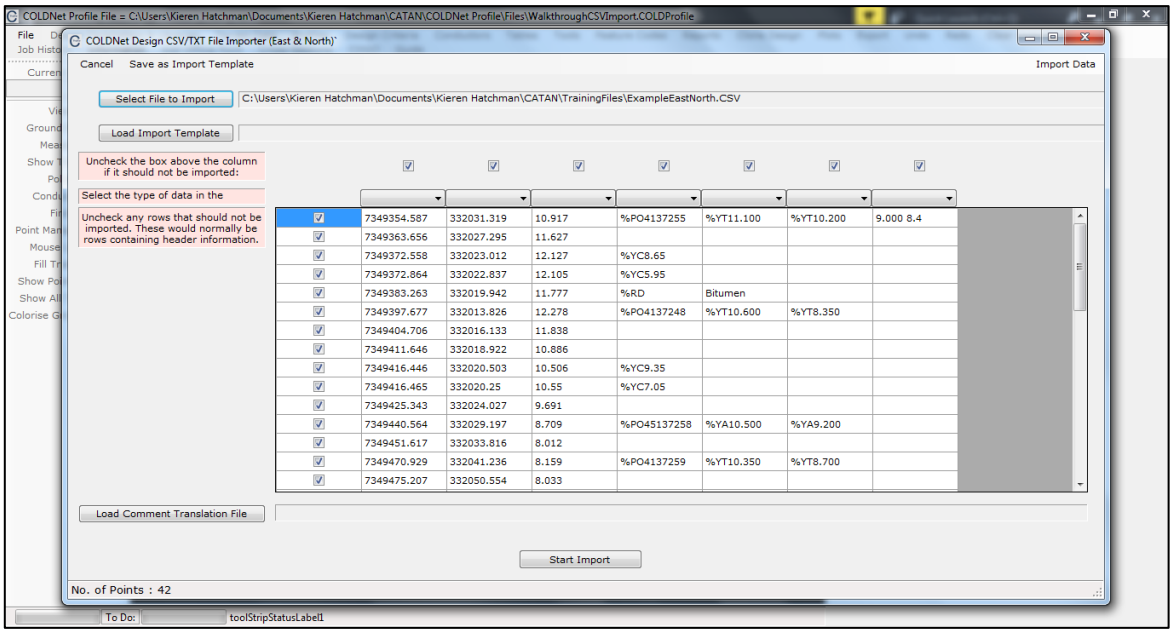
1. Install COLDNet Profile and open application
2. The following screen will appear. Select **Create a New Project**



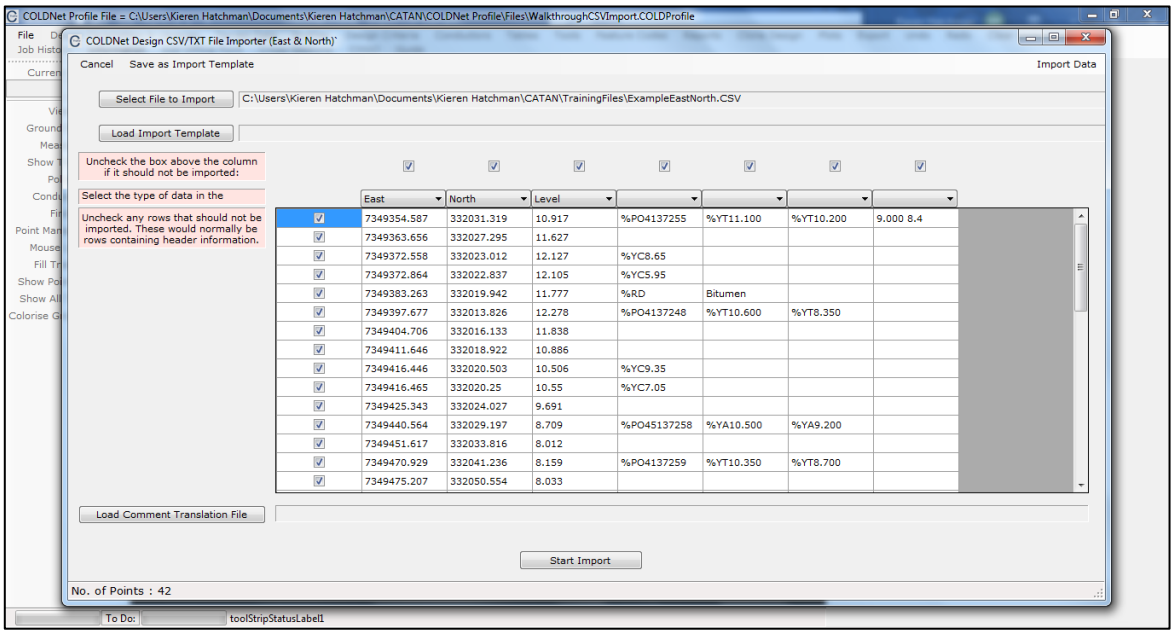
3. Give the file a name, e.g. **WalkthroughCSVImport.**
4. The following screen below will appear. Select **Parameter File Locations>Add Directory** to navigate to the location where the Design Parameters/Libraries have been stored locally on the machine. Once selected **Close** Manage Directories window and double click on the desired parameter file from the list. For this example, select the Design Parameter file called **EQNonCyclonic**.



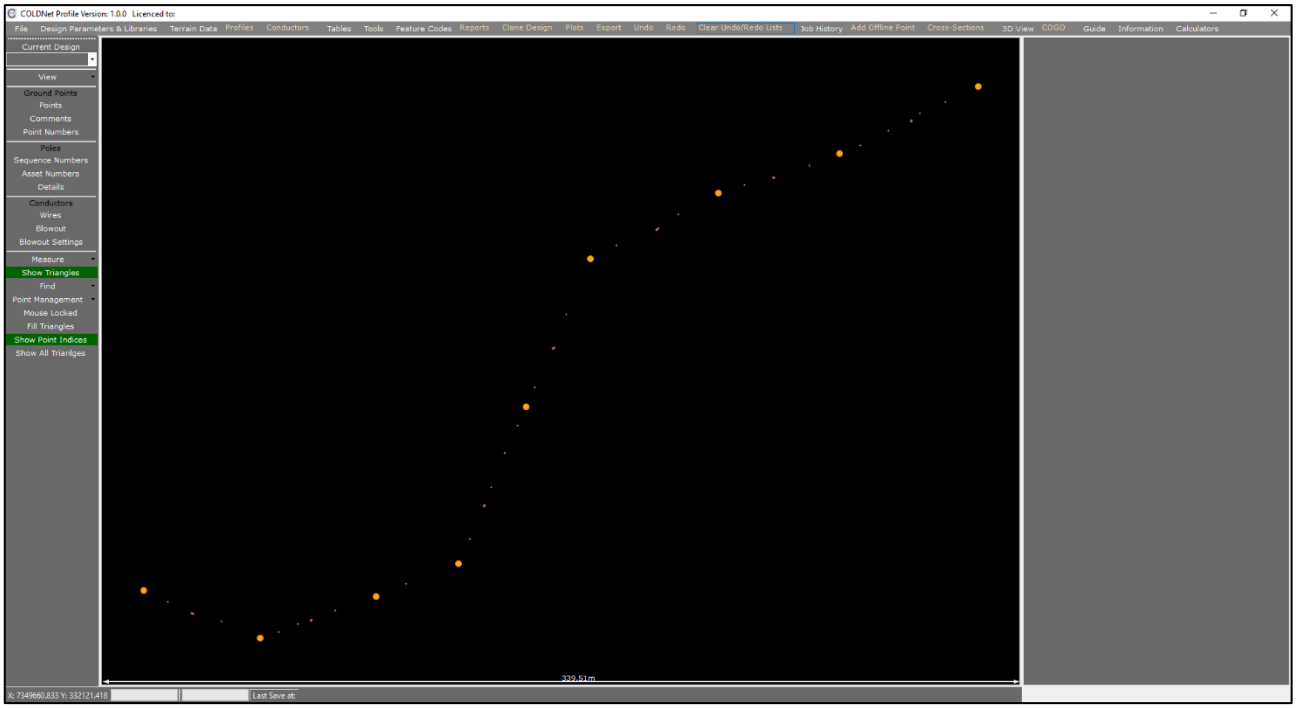
5. After selecting and importing a Parameter File, select **Terrain Data** and then select **Import CSV file of GPS Points** and open the **ExampleEastNorth.csv** file



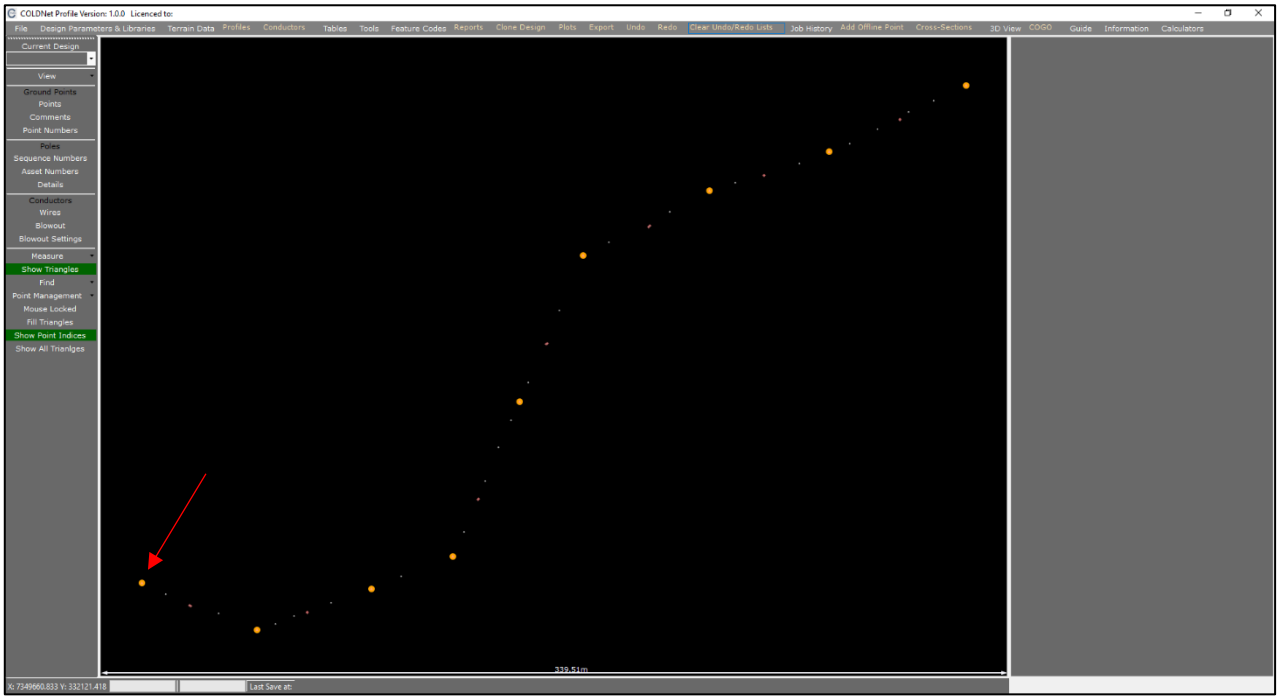
6. Identify the data type of each column by selecting from the dropdown menu above the top row. Any columns for which the data type is not selected will default to **Comment** data



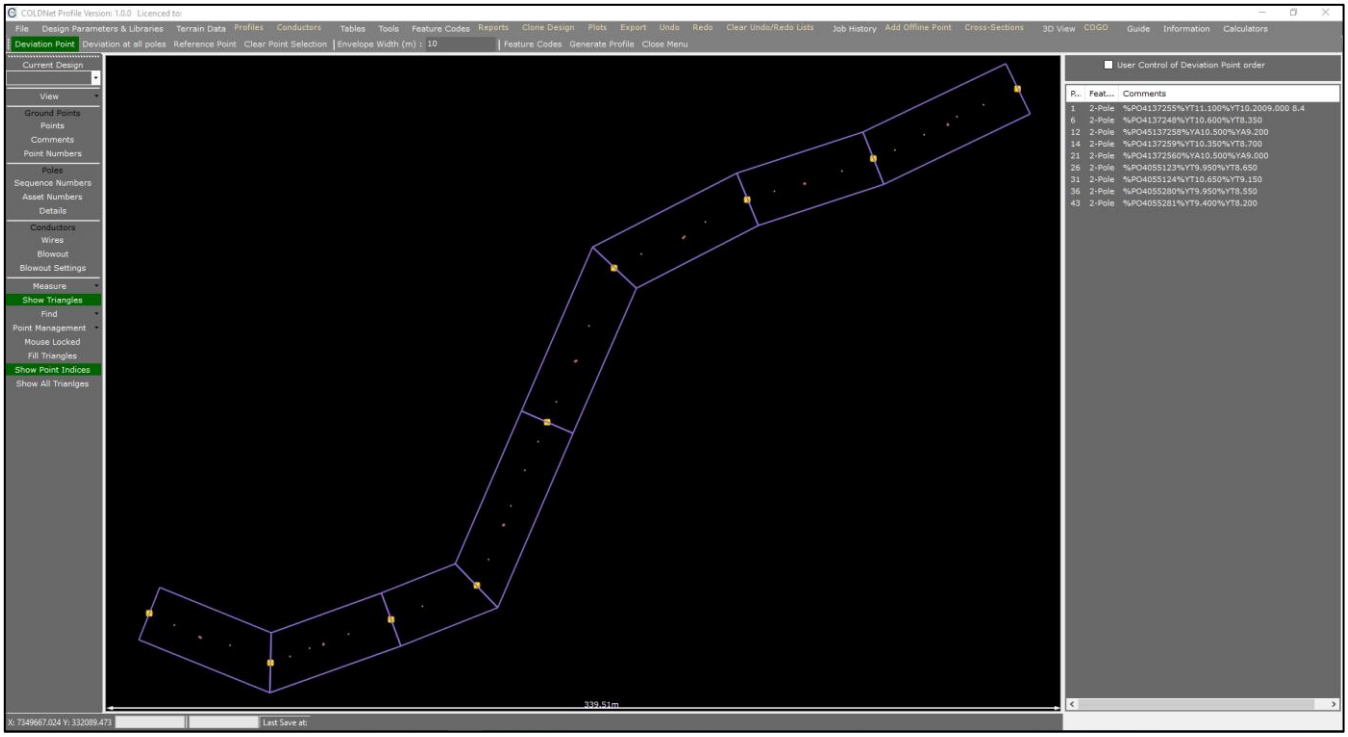
7. Select **Start Import**
8. You will then be asked if you want to save these settings as a template before you proceed. Select **No** and you will then be taken to the main plan view screen as shown below



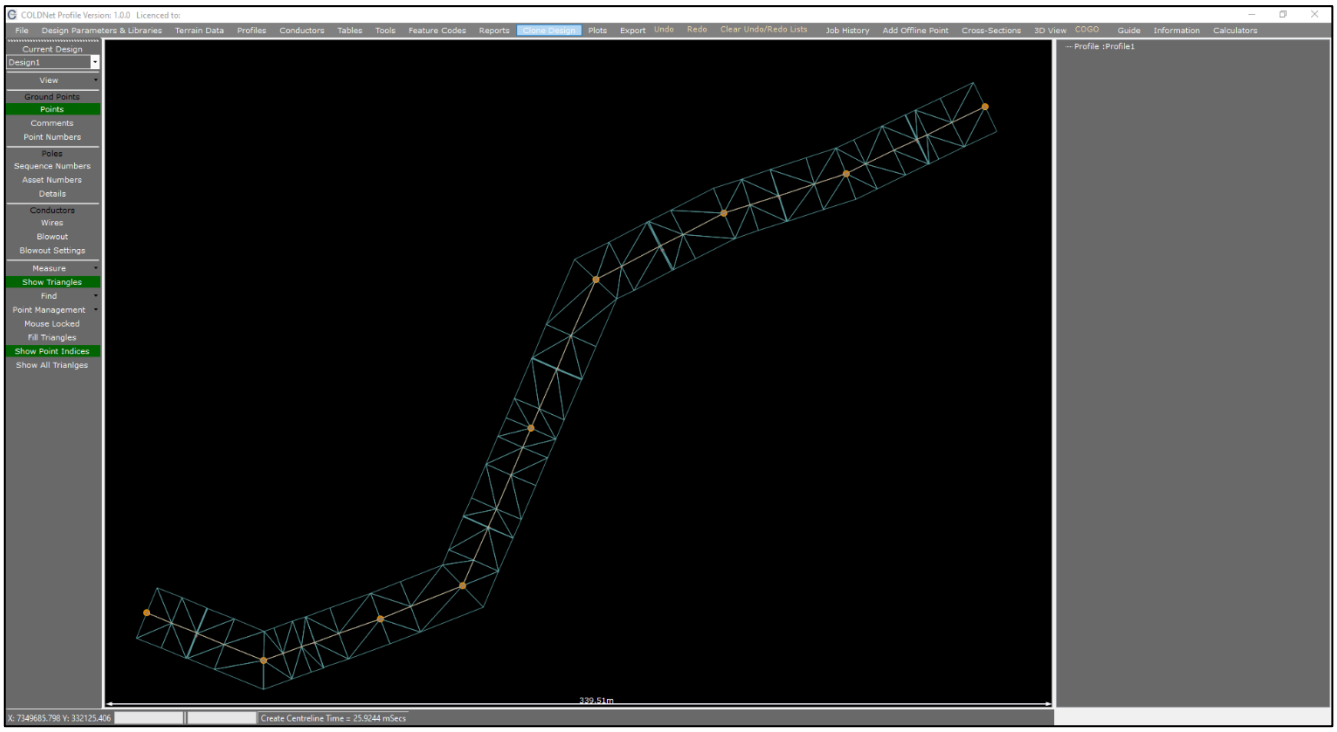
9. Next we want to create a profile by first selecting **Tools>Show Create Profile Menu**. An additional menu bar should appear
10. Select the option that says **Deviation Point** before selecting the first pole for the profile as shown below (marked by a yellow cross)



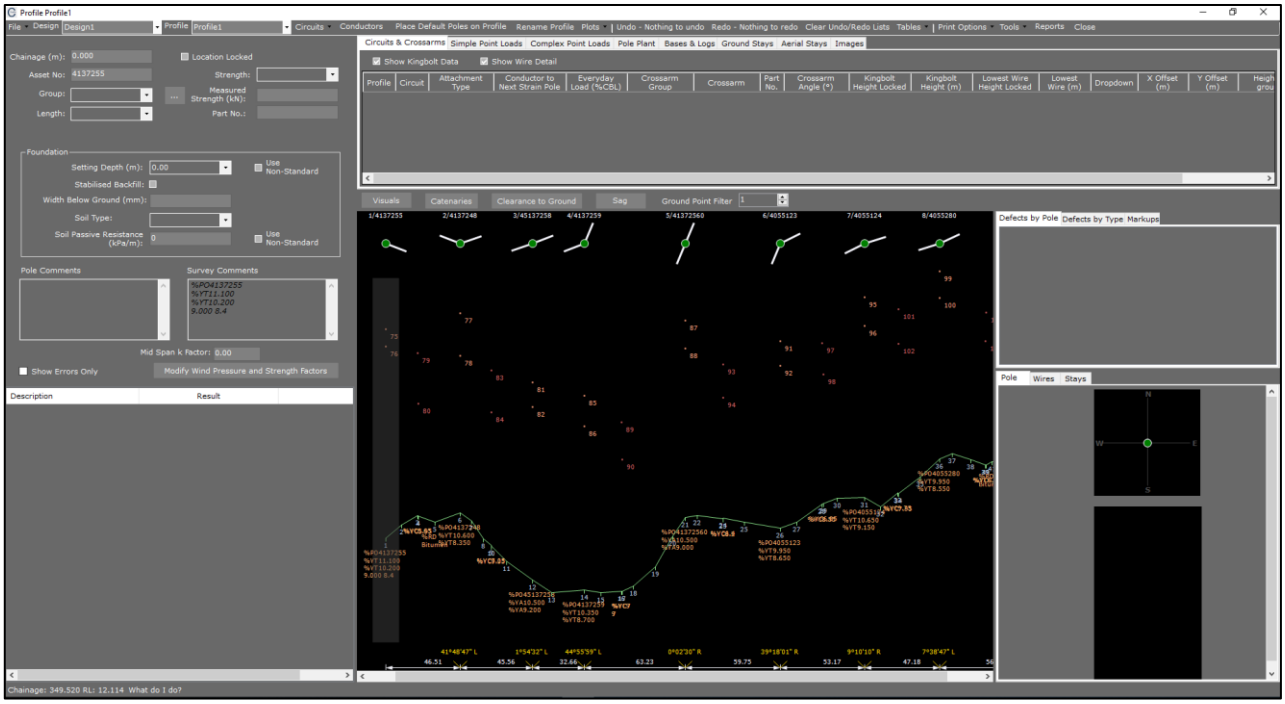
11. Next, select the remaining deviation points (where the route changes direction) along the profile as shown below or select **Deviation at all poles Tab** to form profile. To deactivate deviation point, click and select point that doesn't require selection.



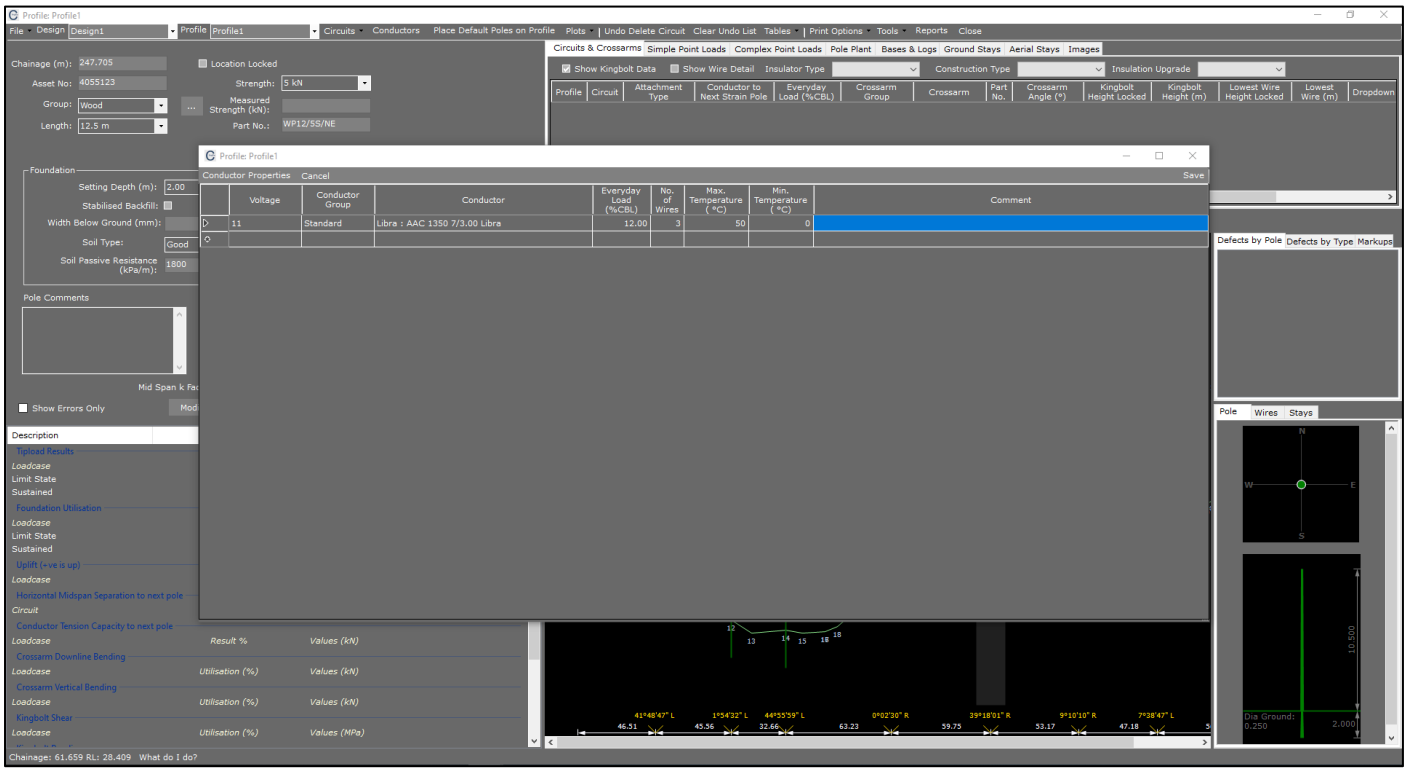
12. Select **Generate Profile** from the tool menu
13. A new window will open with a default **Design Name** called "Design1" and **Profile Name** called "Profile1". Click **Create Profile**
14. The profile centreline and triangulated terrain model will be generated as shown below



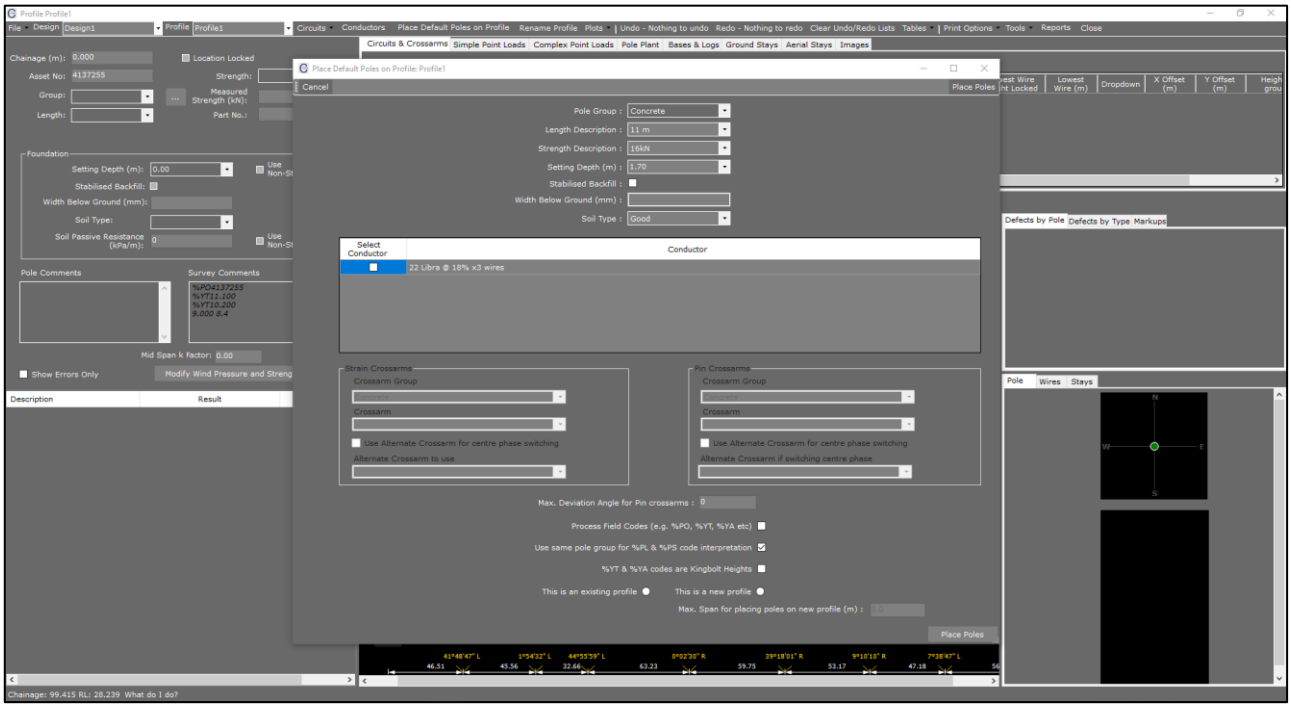
15. Select the option labelled **Profiles** in the top toolbar menu. A new window will open as shown below



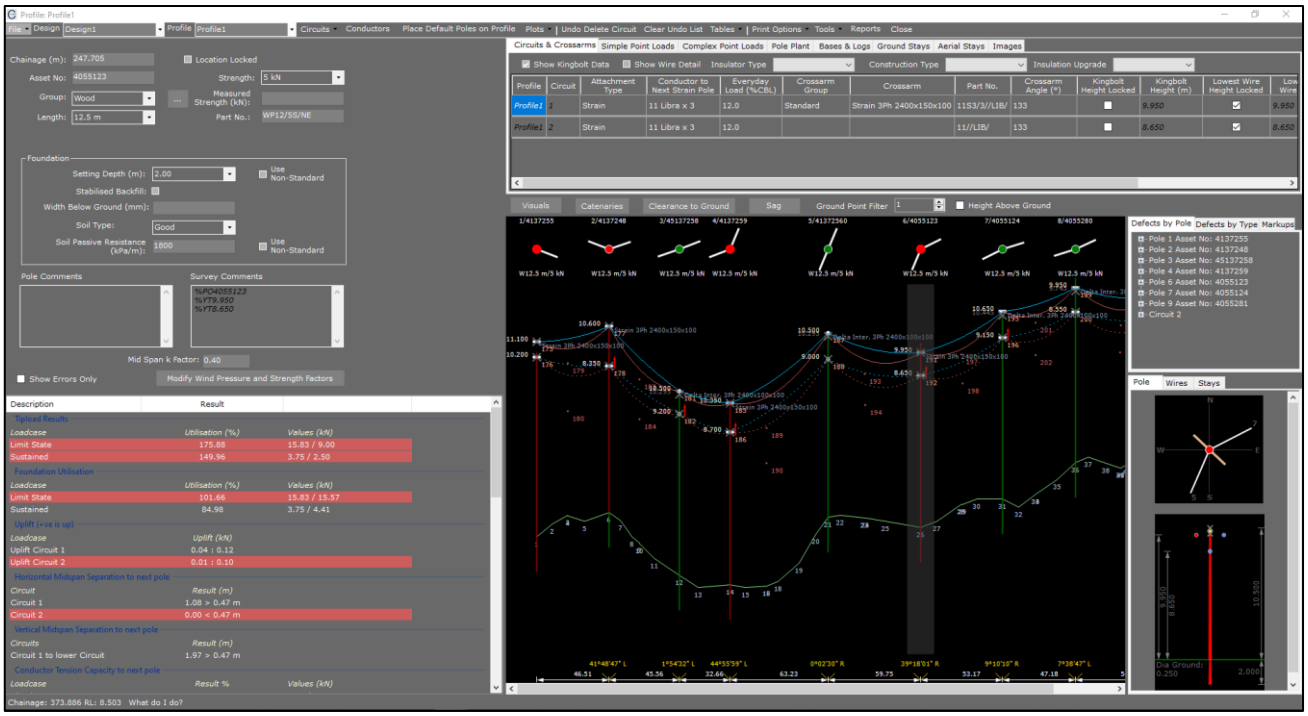
16. Now we are going to add a conductor to our design by selecting the option labelled **Conductors**. A new window will open
17. Select the **Voltage '11'**
18. Select the **Conductor Group 'Standard'**
19. Select the **Conductor 'Libra: AAC 1350 7/3.00 Libra'**
20. Enter an **Everyday Load (%CBL)** of **'12'**
21. Enter the **No. of Wires** as **'3'**
22. Enter the **Max Temperature (°C)** of **'50'**
23. Enter the **Min Temperature (°C)** of **'0'**



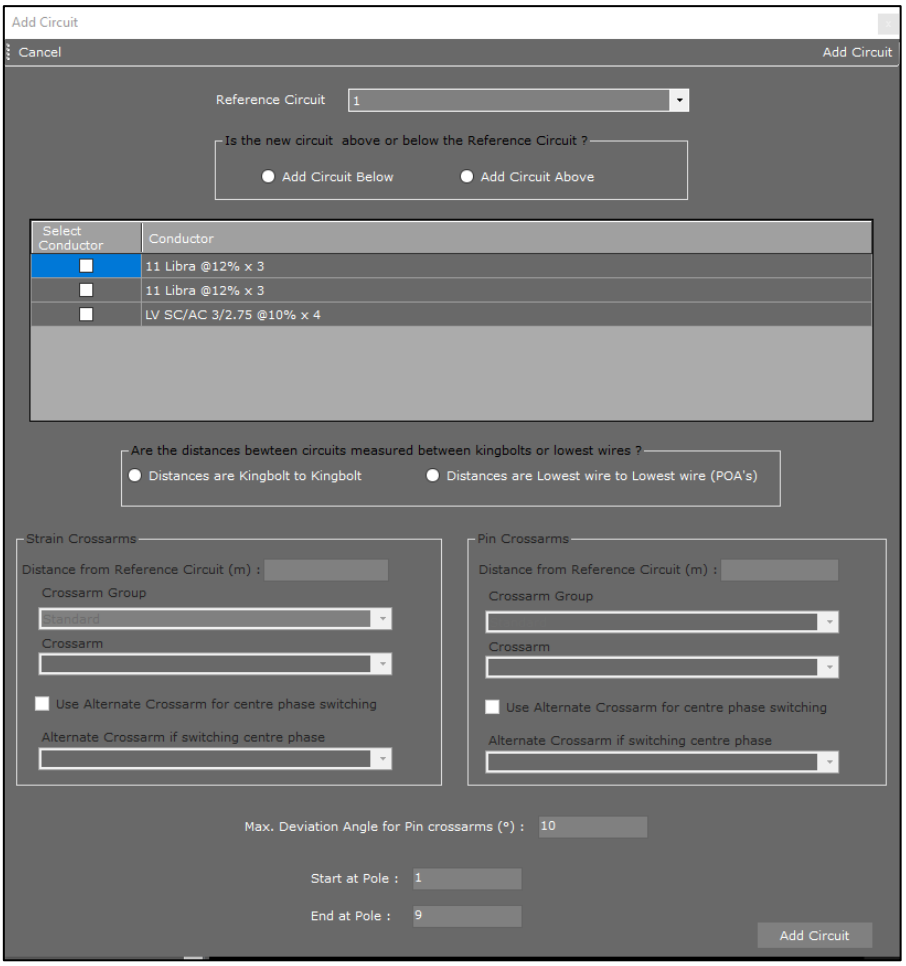
24. Select **Save** in the top right-hand corner of the window
25. We are now going to place poles at those locations where poles have been indicated in the survey data using the field code %PO. Do this by first selecting the option **Place Default Poles on Profile**, as shown below



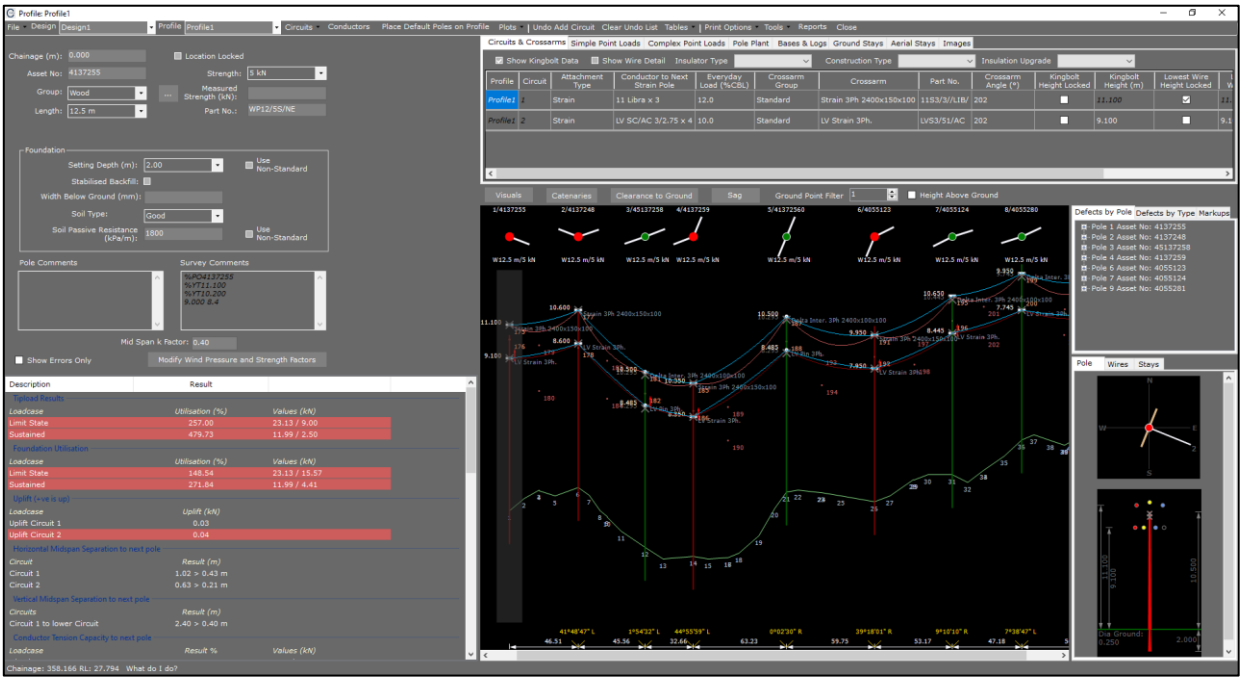
26. Change the **Pole Group** to **'Wood'**
27. Change the **Length Description** to **'12.5m'**
28. Change the **Strength Description** to '**5kn'**
29. Change the **Setting Depth** to '**2m**'
30. Leave the default **Soil Type** as **'Good'**
31. Select the Libra Conductor we added earlier by clicking the check-box provided
32. Change the Strain **Crossarm Group** to **'Wood'**
33. Leave the default **Crossarm** as **'Strain 3Ph 2400x150x100'**
34. Change the Pin **Crossarm Group** to '**Wood**'
35. Leave the default **Crossarm** as **'Delta Inter. 3Ph 2400x100x100'**
36. Enter a **Max Deviation Angle for Pin Crossarms** of **'10'**
37. Click the option that says **Process Field Codes (e.g. %PO, %YT, %YA etc)**
38. Select the option **This is an Existing Profile**
39. Click **Place Poles** to finalise. Profile 1 should now look like the figure below.



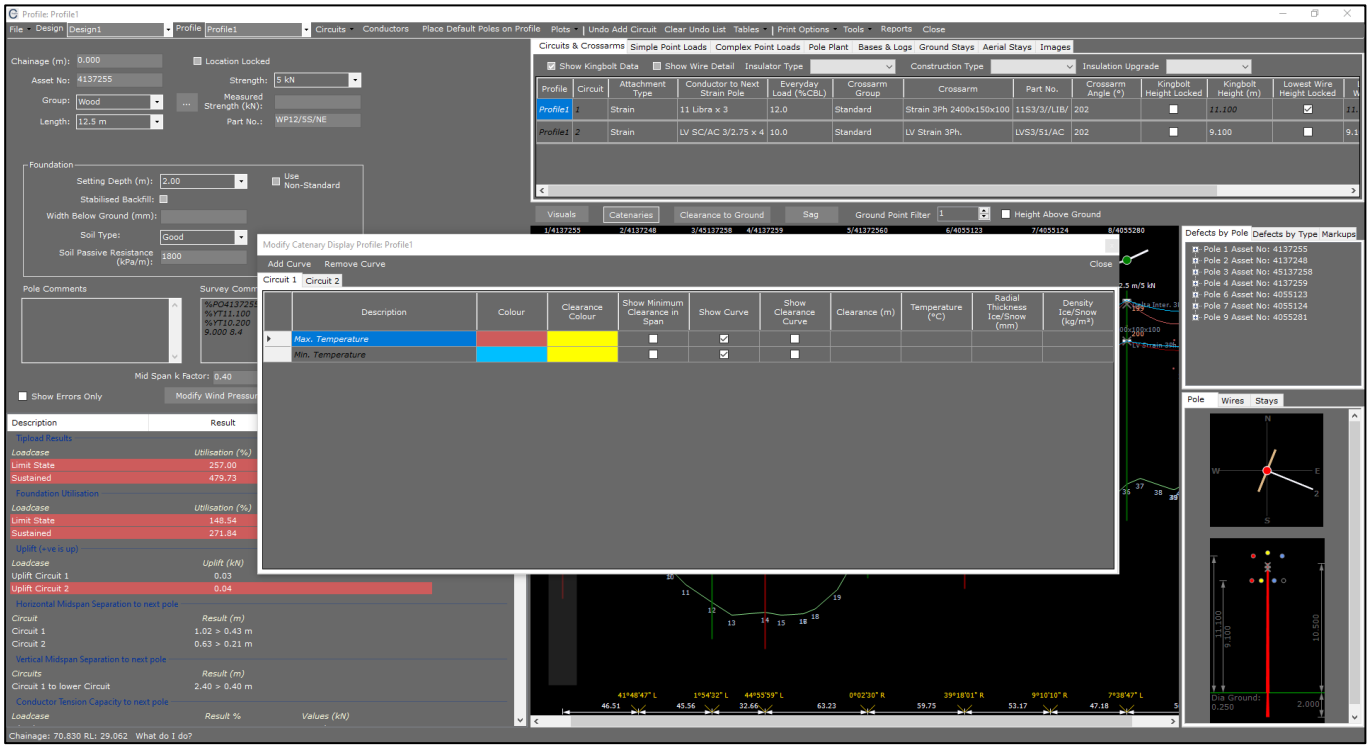
40. Next we are going to remove Circuit 2 and manually add a new LV circuit below Circuit 1
41. Select **Circuits>Delete Circuits>Circuit 2**
42. We will now add our new LV conductor to our design as we have just done previously by selecting the option labelled **Conductors**. A new window will open
43. Select the **Voltage 'LV'**
44. Select the **Conductor Group 'Standard'**
45. Select the **Conductor 'SC/AC 3/2.75 : SC/AC 3/2.75'**
46. Enter an **Everyday Load (%CBL)** of **'10'**
47. Enter the **No. of Wires** as **'4'**
48. Enter the **Max Temperature (°C)** of **'50'**
49. Enter the **Min Temperature (°C)** of **'0'**
50. Select **Save** in the top right-hand corner of the window
51. Next select **Circuits>Add Circuits** and the following form will open



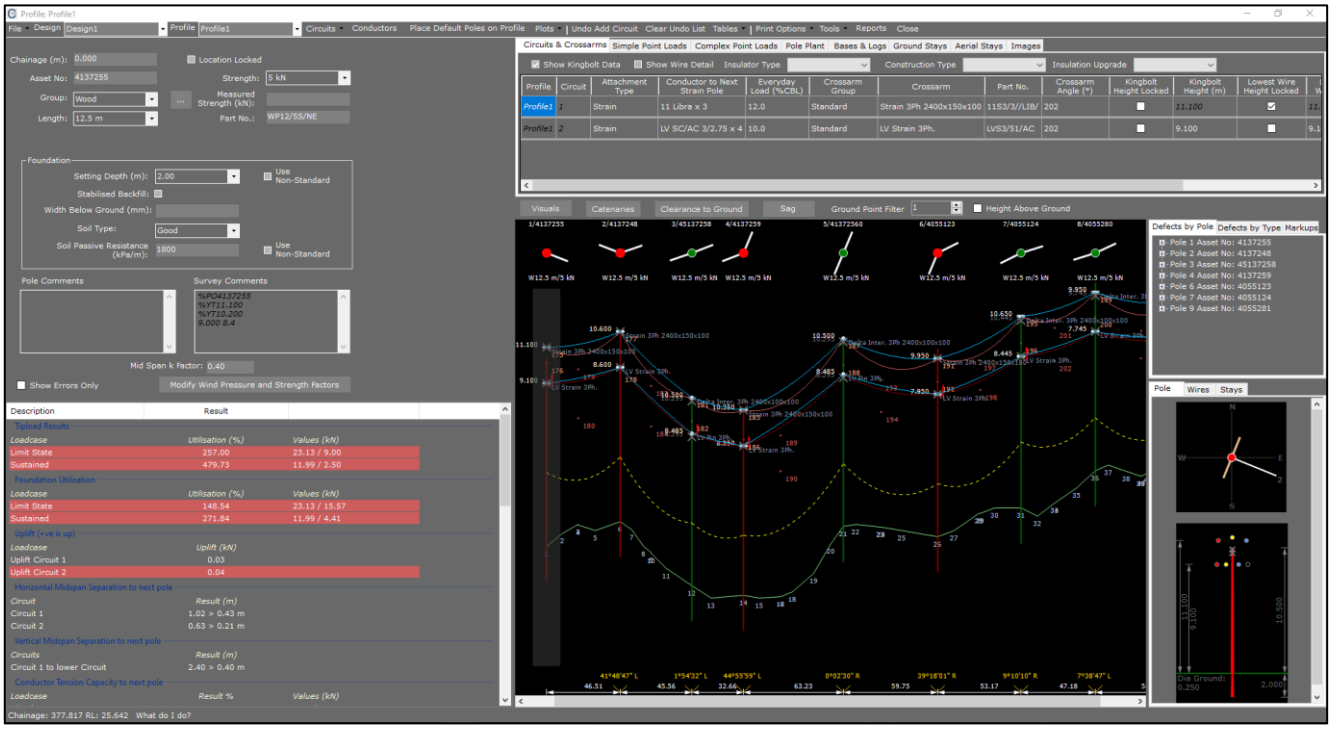
52. Select the option to **Add Circuit Below**
53. Select the **'LV SC/AC 3/2.75 @10% x 4'** conductor that we just added. A default strain and pin crossarm will be selected
54. Select **Distances are Kingbolt to Kingbolt**
55. Enter a **Distance from Reference Circuit** of **'2'** for both the strain and pin crossarms
56. Select **Add Circuit**. An LV Circuit 2 will be added to your design



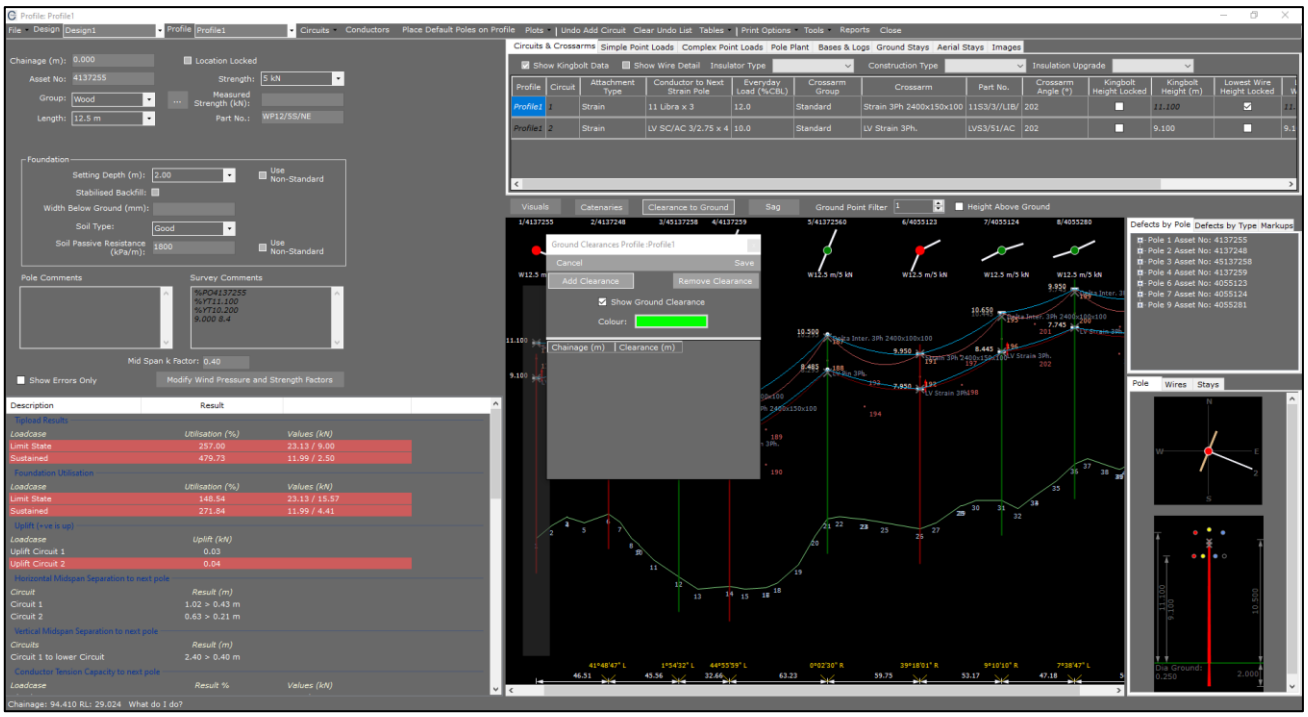
57. We are now going to add in a clearance curve by first selecting the button **Catenaries** above the elevation view drawing. A new window will open



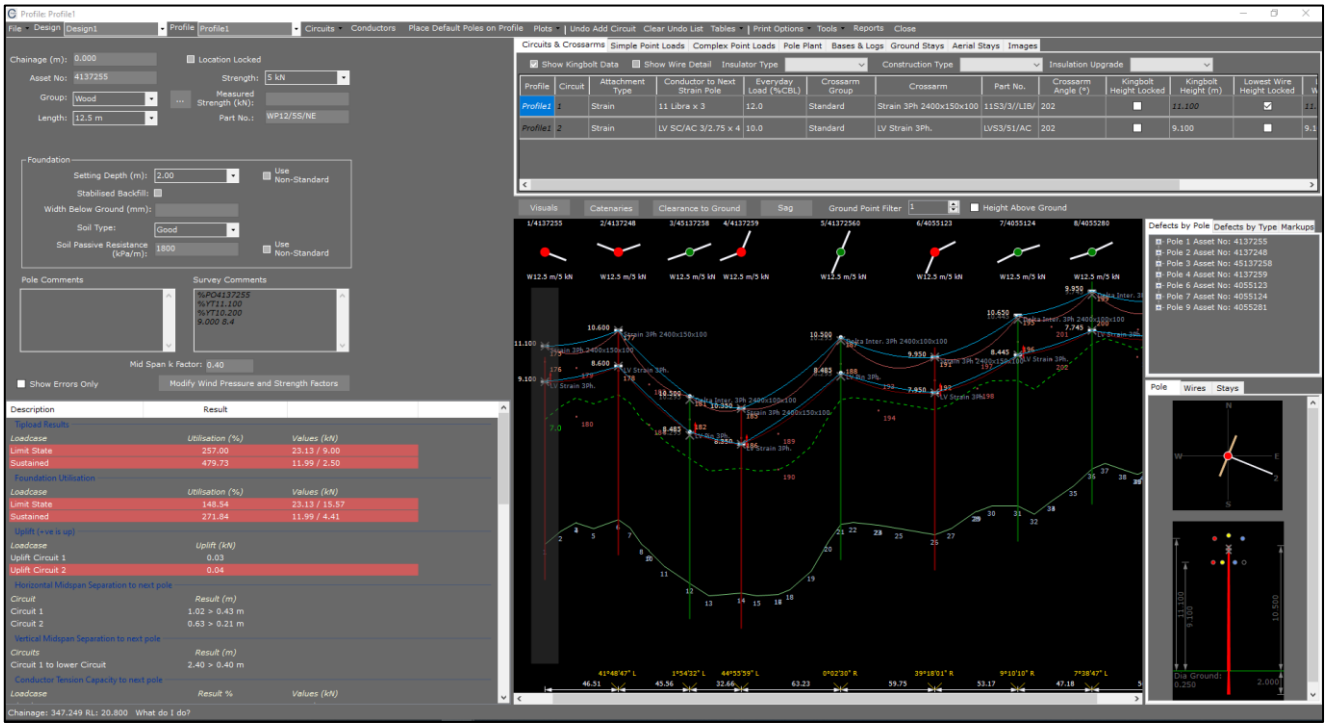
58. Under the **Max Temperature** curve for **Circuit 1** we are going to select the option **Show Curve**
59. Enter in a **Clearance** value of **'7'**
60. Select **Close** at the top right-hand corner of the window. The elevation view will now have a 7m clearance curve for the conductor on circuit 1 operating at the maximum temperature. This is indicated by the yellow curve below. If the groundline crosses the yellow clearance curve then the required clearance has not been achieved.



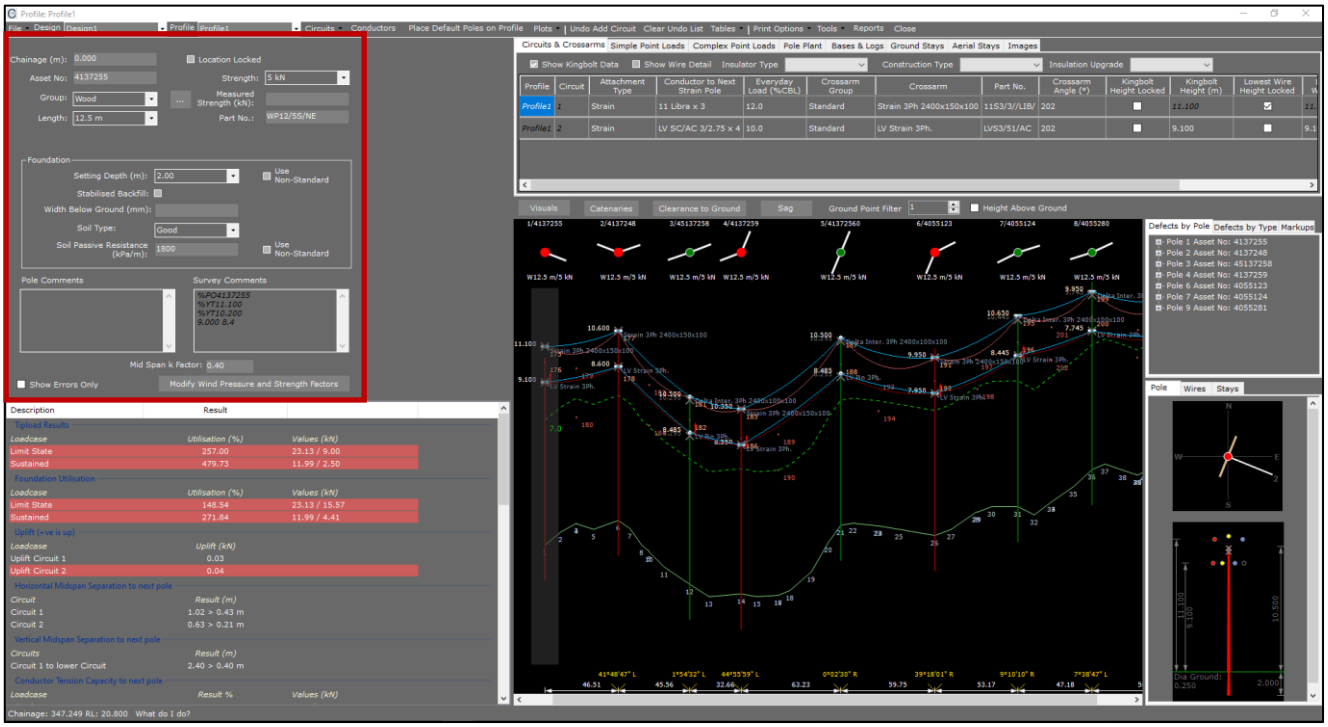
61. You may prefer to show the to show the clearance as an offset from the ground. To do this first go back into **Catenaries** and un-select **Show Curve** followed by **Close**
62. Next select the option **Clearance to Ground** and a new window will open



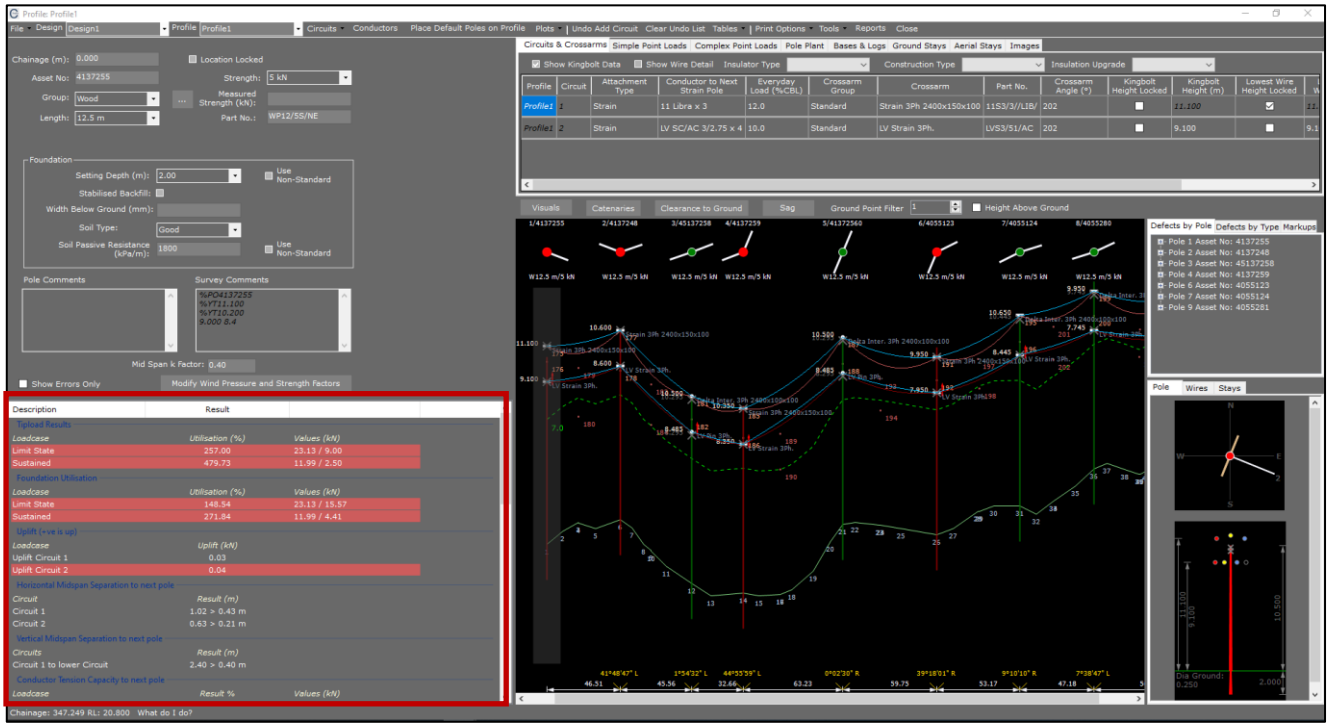
63. Select **Add Clearance**. A new row in the grid will appear at a **Chainage** of 0m
64. Enter a **Clearance** of **'7'** and select **Save**. The elevation view will still have a 7m clearance curve for the conductor on circuit 1 operating at the maximum temperature. This is indicated by the yellow curve below. If the maximum temperature circuit curve crosses the yellow off-set groundline clearance curve, the required clearance has not been achieved.



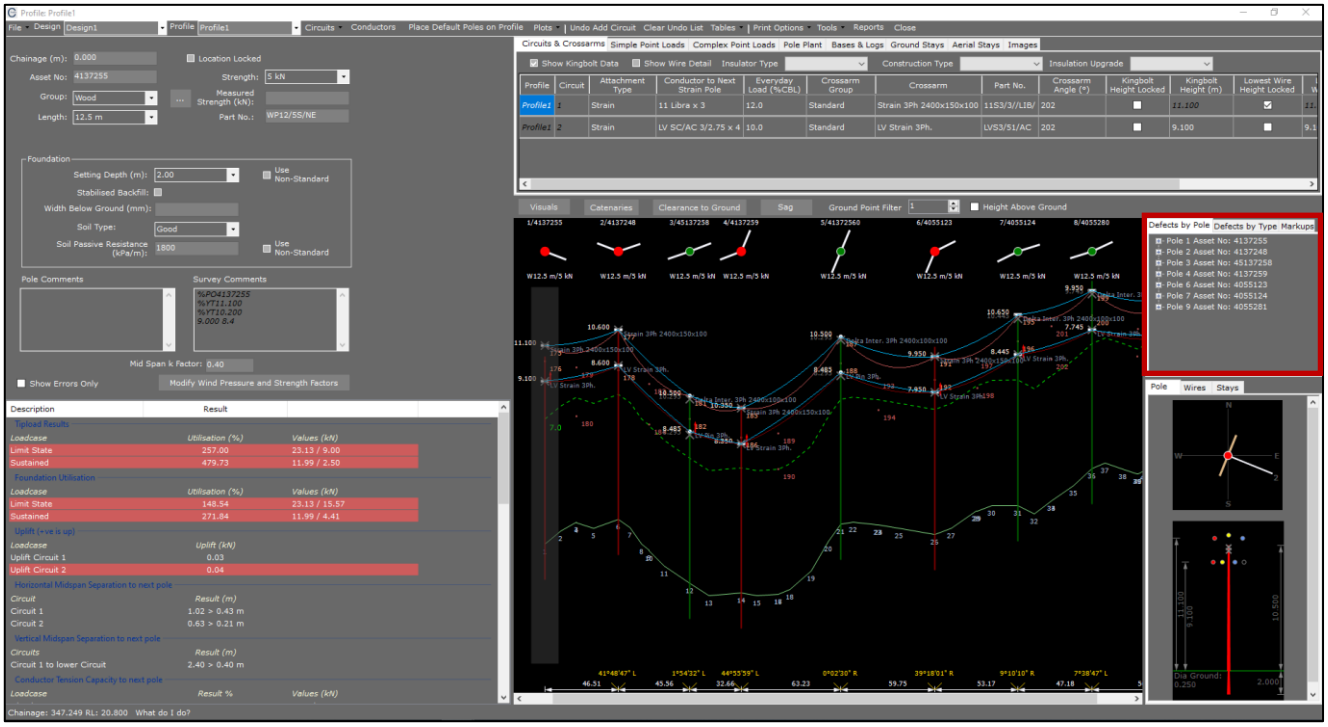
65. The pole attributes (**Group, Length, Strength, Setting Depth, Soil Type** etc) can be changed on each pole by clicking the pole of interest in the profile view (indicated by the grey transparent highlighting) and selecting from the dropdown menus provided which will be prepopulated from the user libraries.



66. A summary of the results on each pole can be viewed by clicking the pole of interest in the profile view (indicated by the grey transparent highlighting). The results are then listed on the left-hand side under the pole attributes



67. A list of **Defects** on the profile are also provided on the right-hand side of the elevation view



68. If the Pole or other attributes are highlighted red than the allowable limits have been exceeded