# COLDNet Profile – Blowout and Clearance to Structure

1. Open the earlier project that we created called **WalkthroughCSVImport**
2. Select **File>Save As** and give the new project the name **Blowout**
3. One the main plan view screen select the option to **Add Offline Point** from the top tool-bar menu. Select a location between Poles 1 & 2 inside the terrain model by left-mouse clicking. A new window will open as shown below
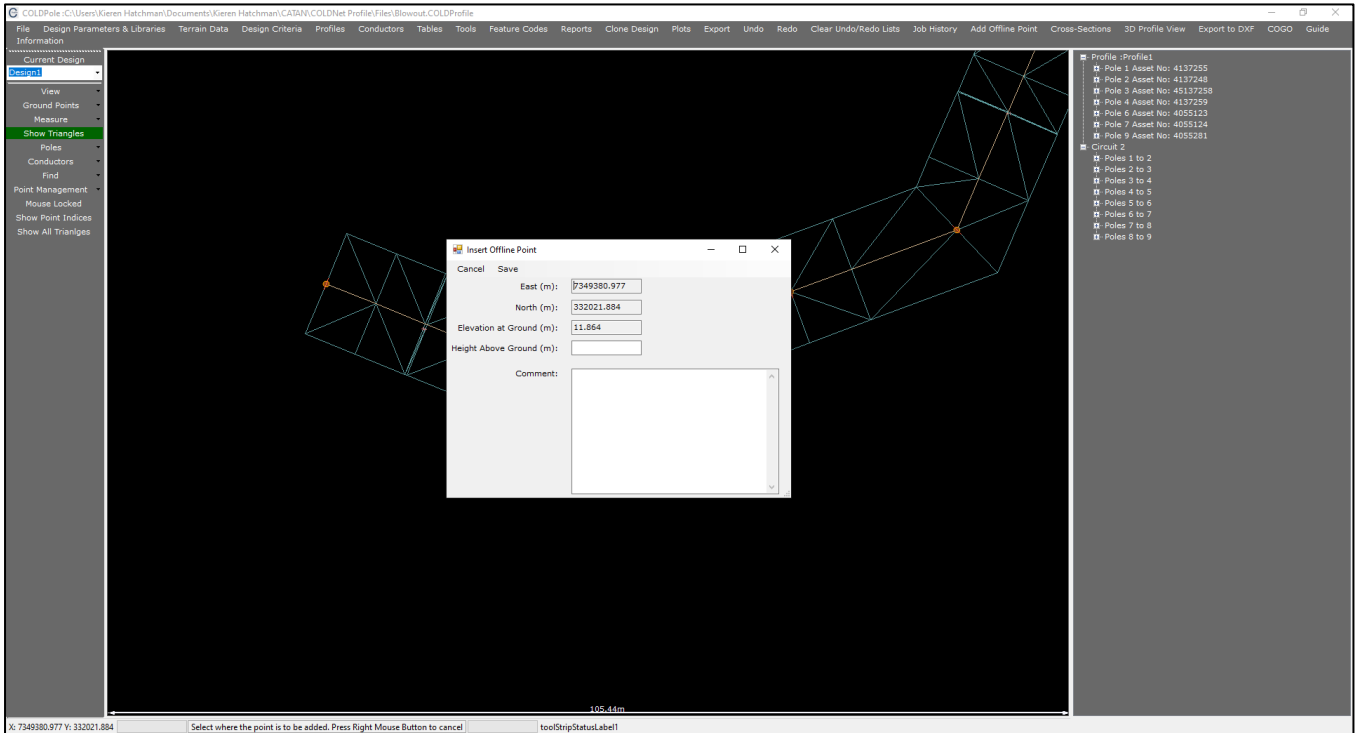

4. The **Easting, Northing & Elevation** values may be different to the ones shown above. For the purpose of this example it does not matter what these values are
5. Enter a **Height Above Ground** of **'8'**
6. Enter the **Comment "Shed Roof"**
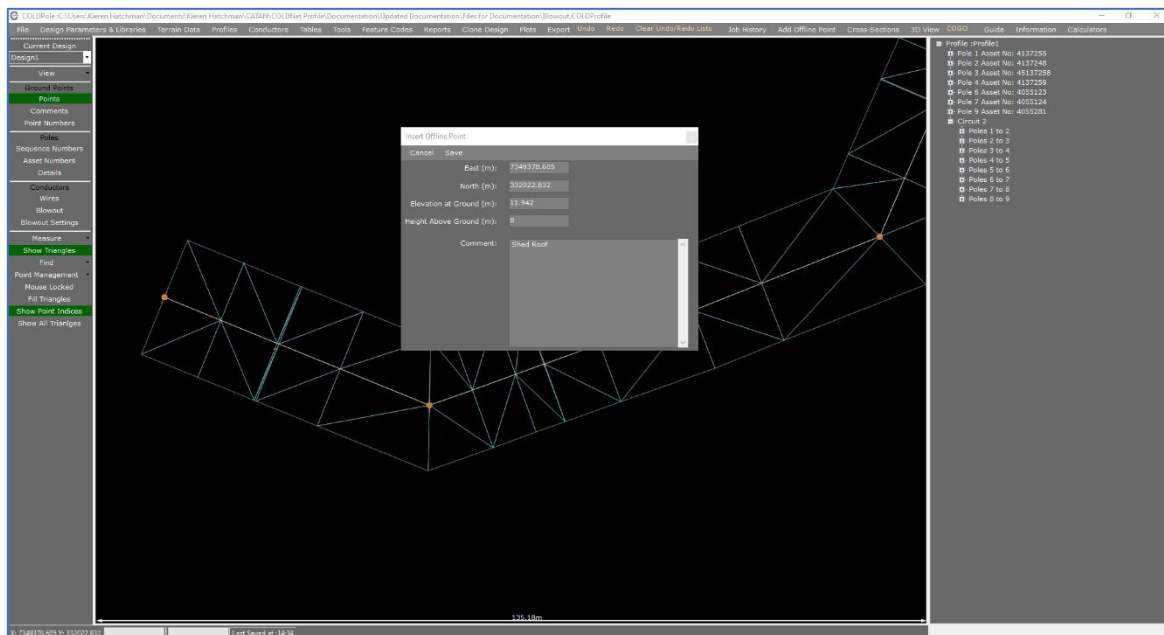
7. Select **Save**. The form will close and the offline point will be added to the plan view screen shown with an orange cross as seen below
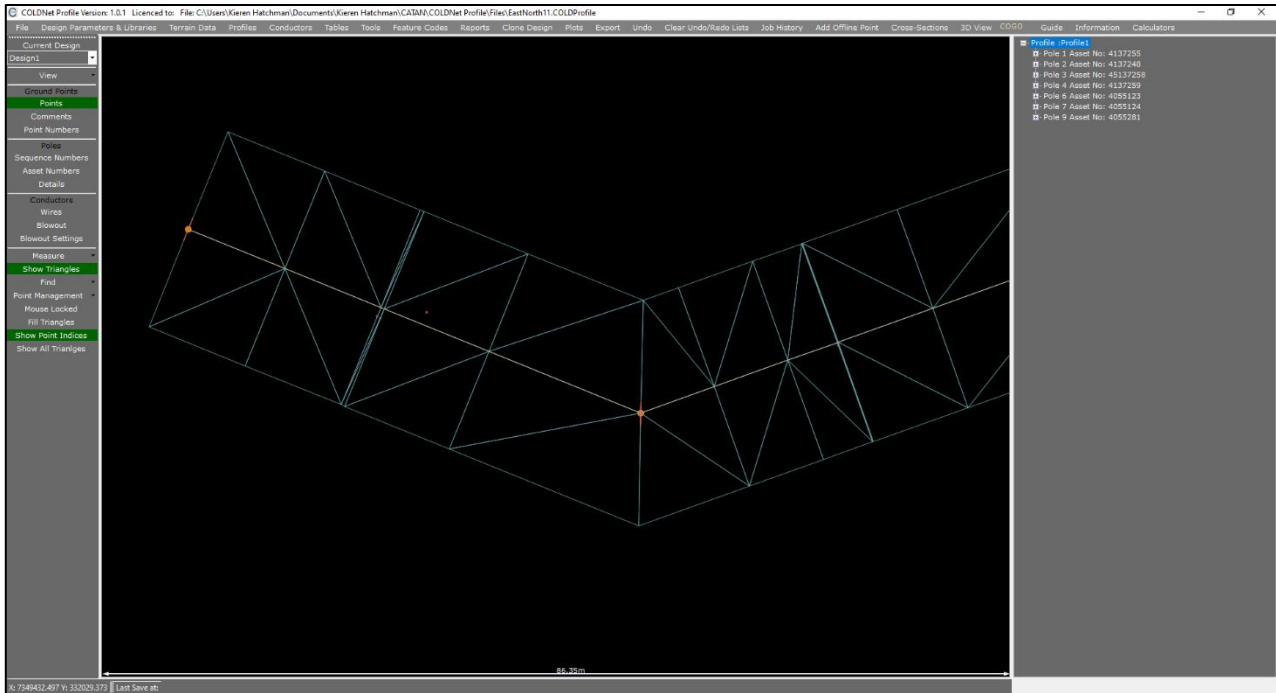
8. Select **Conductors** from the left-hand menu options and turn on **Show Wires & Show Blowout**. If the blowout conditions have not already been set, you will be asked to enter this data now. Select **Yes** and the following window will open
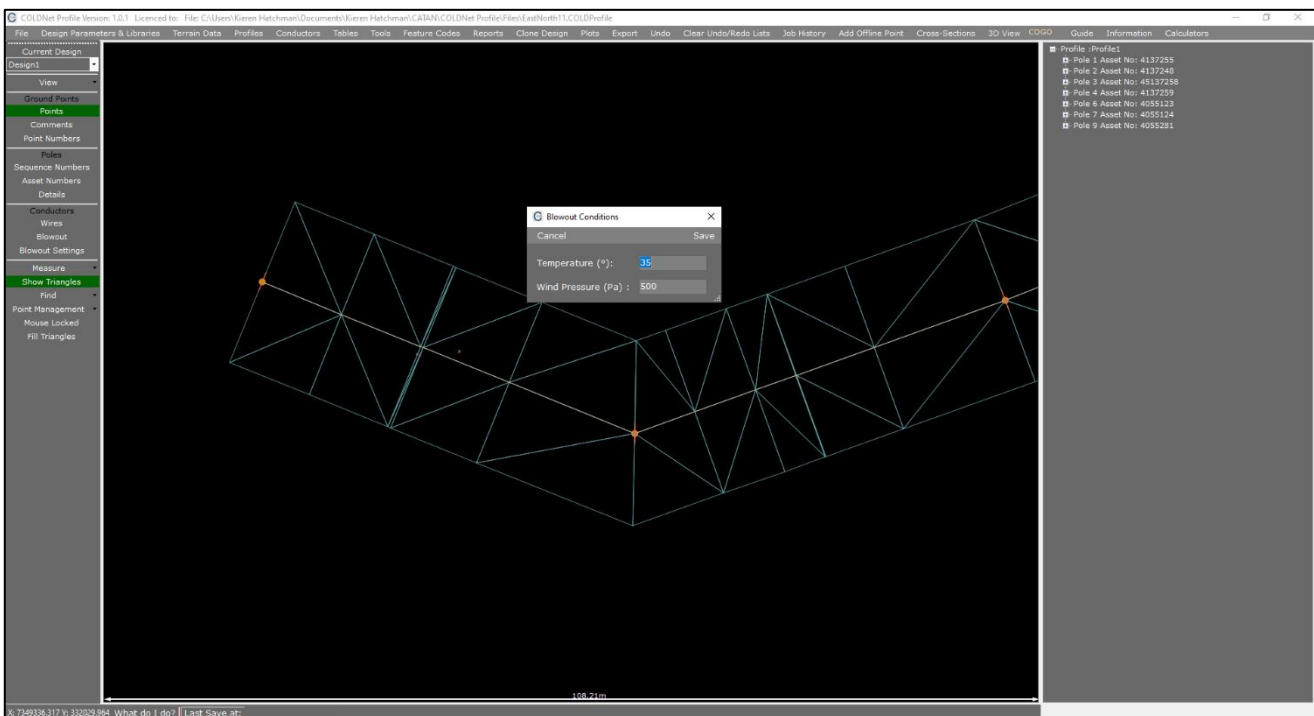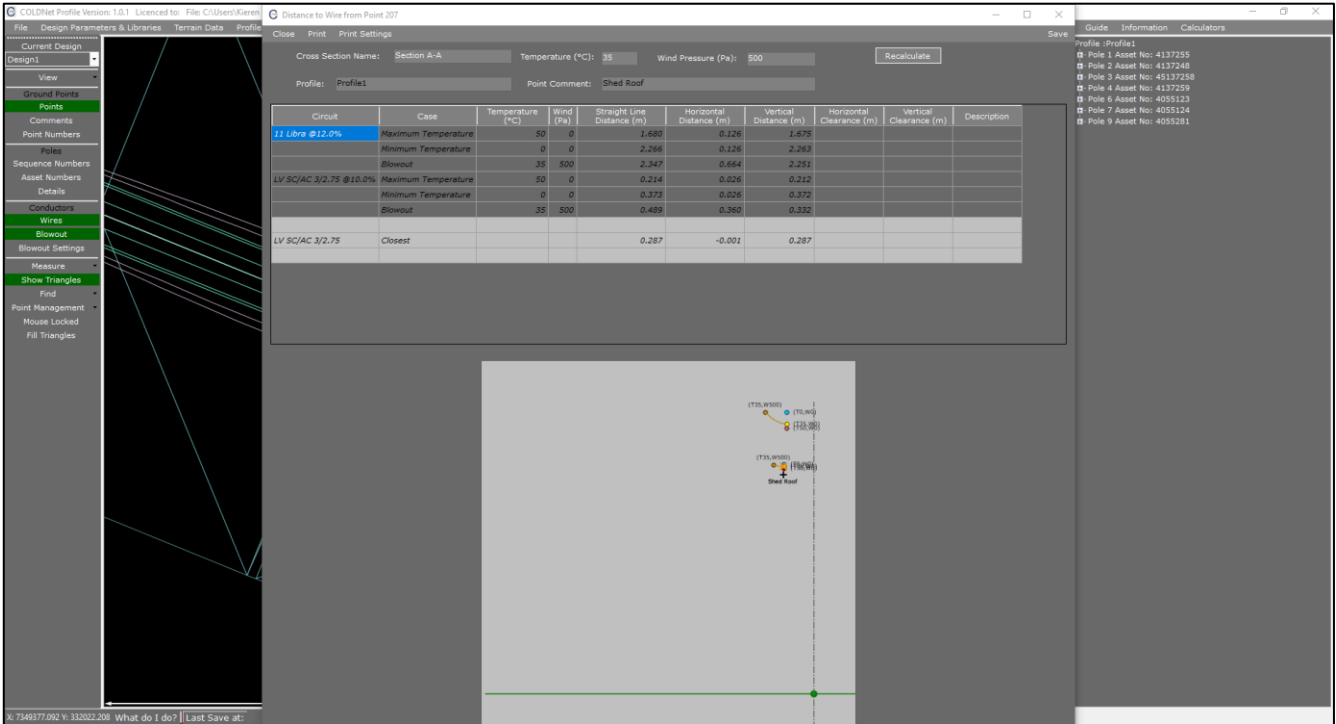
9. Enter a **Temperature** of **'35'**
10. Enter a **Wind Pressure** of **'500'**
11. Select **Save**. You will be returned to the main form where the wires and blowout curves are now showing (indicated by the cyan and purple lines respectively)
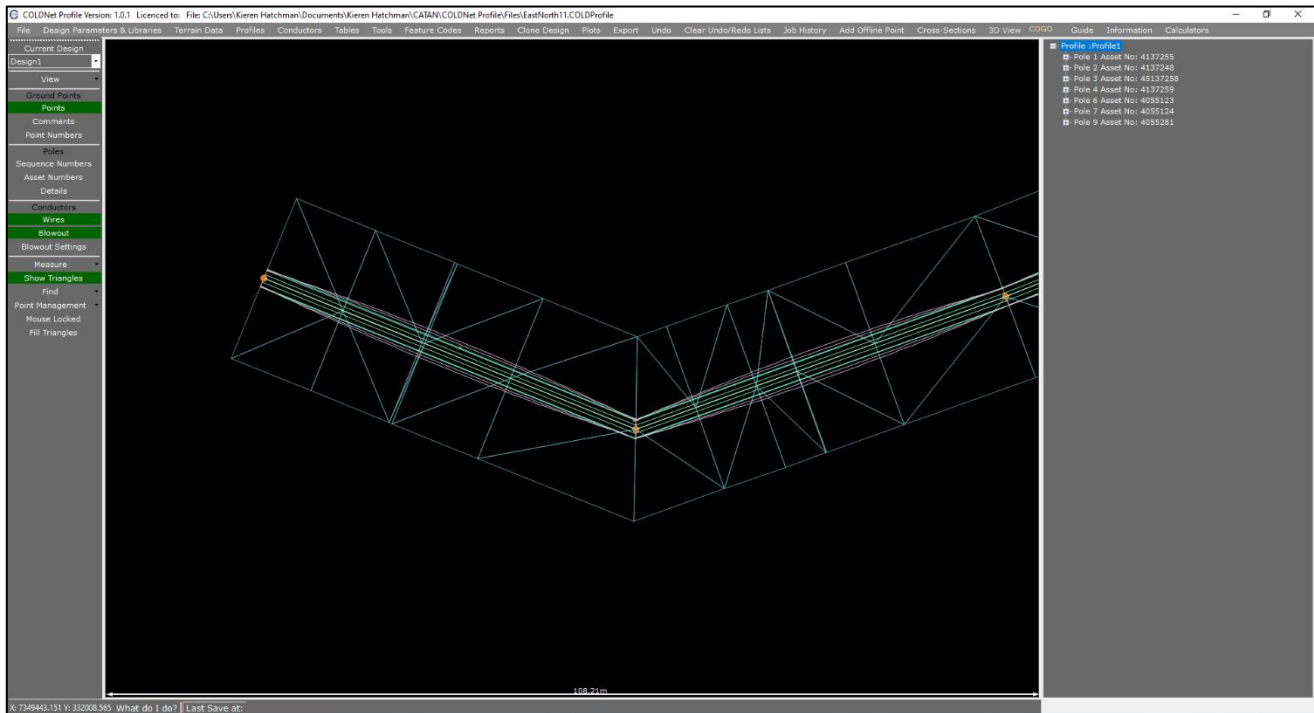

12. A cross-sectional view of the line can be created by selecting **Cross-Sections>Create Cross-Section.** The cross-sectional view can be used to measure horizontal and vertical clearances to the conductor. A blowout curve will also be displayed to show the geometry of the conductor swing under blowout conditions.
13. The user will first be required to select the Offline Point to incorporate into the cross-section by left-mouse clicking on the offline point that was added earlier. The Offline Point will usually be in reference to a building or object that has been captured during the survey to verify it meets the required clearance values.
14. After selecting the offline point, a span will need to be selected by left mouse-clicking. Select the span between poles 1 & 2. Once selected, a new window will automatically be generated with the cross-sectional view as shown below

15. The Blowout Conditions can be modified as required. For this example, enter in a **Temperature** of '**35**' and a **Wind Pressure** of '**1200**'.

16. Select **Recalculate** to establish the new Blowout Conditions. The blowout curve will readjust.

17. **Vertical** & **Horizontal Clearance** values can be added to the cross-section. From pg. 43 of the AS/NZ 7000 set the **Horizontal Clearance** as '**2.1**' for and the **Vertical Clearance** as '**3.7**' for the **Blowout Case** on the first circuit (Refer Figure 24)

18. Click out of the **Blowout** Case row and the bounds should be drawn on the cross-sectional view
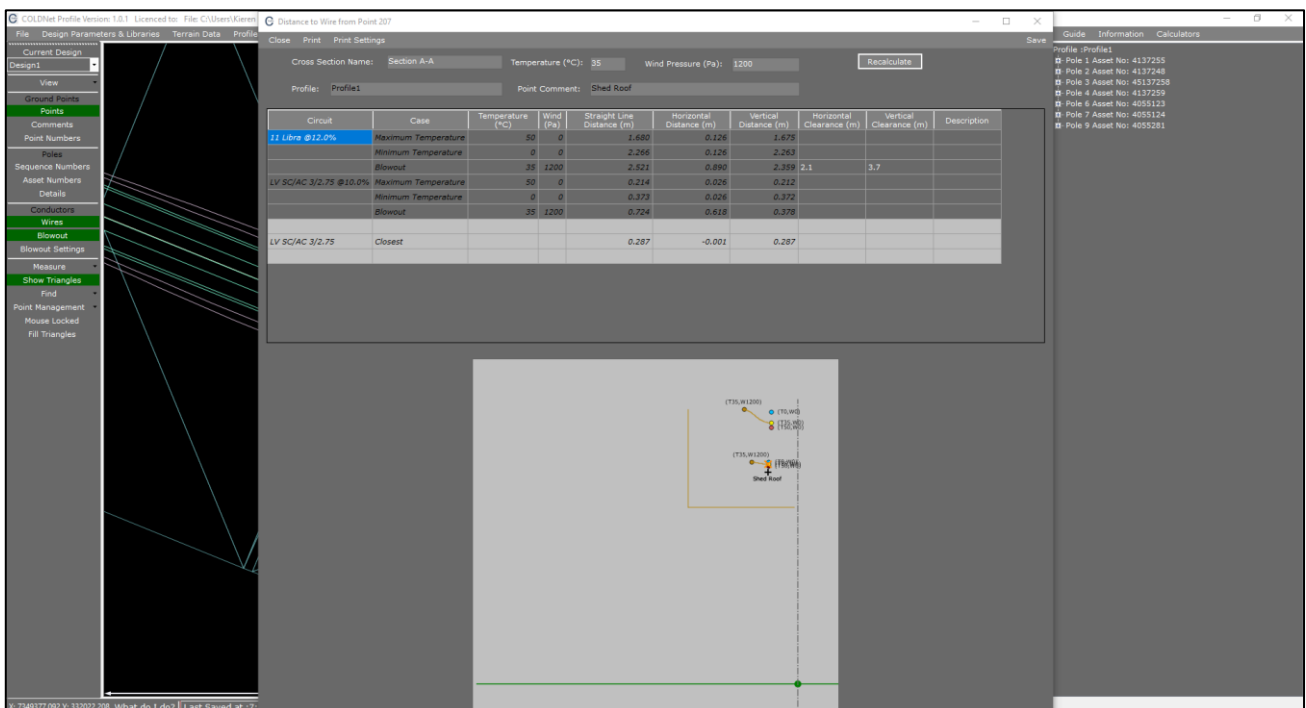
19. For this example above we can see that the **Shed Roof** encroaches into the minimum required horizontal and vertical clearances required
20. Click **Save** in the top right-hand corner of the form
21. The Cross Section ('**Section A-A**') will be displayed on the Plan View screen
22. Select **File>Save**