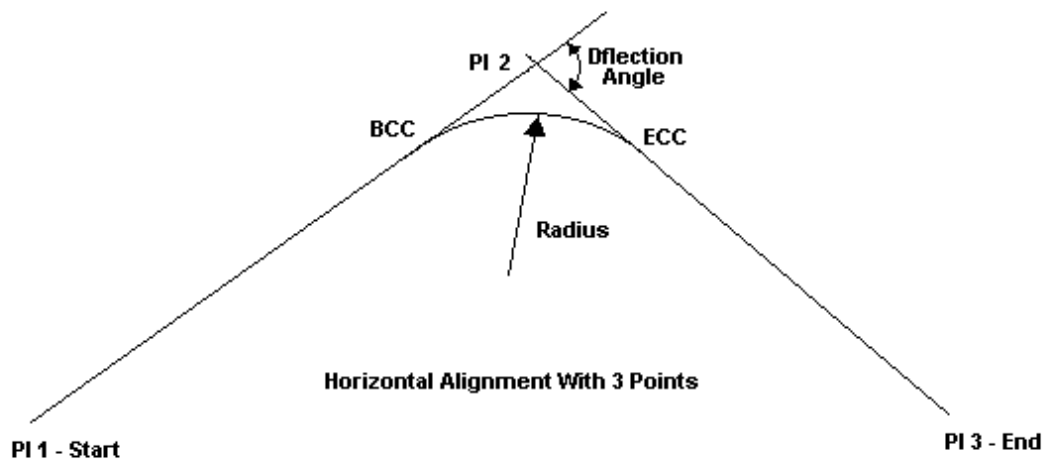
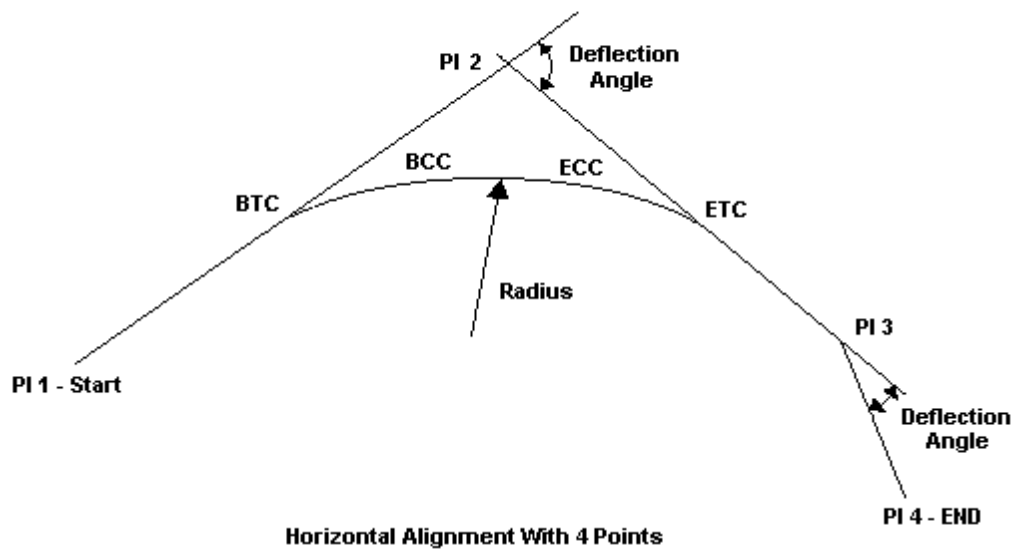
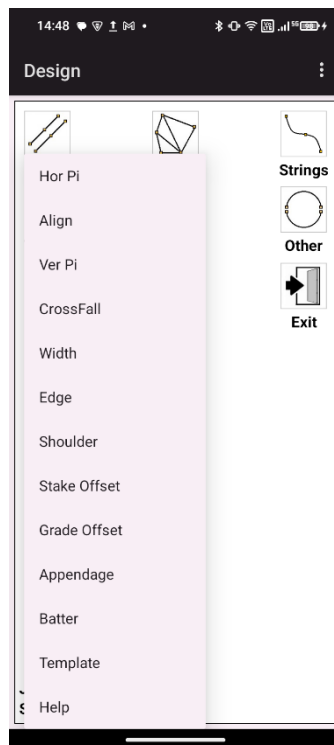


Horizontal Pi's

Pi stands for Point of Intersection and this defines the horizontal alignment of the Job. A maximum of 500 horizontal Pi's with transition spirals for run-in and run-out can be entered per project, including the start and end points. A Pi is the point that defines the intersection of two straights on the horizontal alignment.



To access this routine, tap on “Hor Pi”:



This will display the following window:

A screenshot of a mobile application's 'Horizontal Pi Points' form. The form has the following fields: 'Start SV' with a value of 31530.000, 'Pi No' with a dropdown menu showing 28, 'Easting', 'Northing', 'Radius', 'Trans In', and 'Trans Out'. There are 'Save' and 'Exit' buttons at the bottom right.

Firstly, enter the stake value of the first Pi point where the Job starts. Next tap on “Pi No” and select the Pi number from the list.

Once the Y and X coordinates have been entered of the first Pi, the coordinates of all subsequent Pi's will be requested.

You will notice that **CEASER** does not request the stake value of the Pi's after the first Pi has been entered. This is because the program will calculate the stake values of all the BTC's, BCC's, ECC's and ETC's based on the relevant radiuses and transition lengths entered at each Pi.

Note:

If the stake values calculated are not correct due to a Lo change, short chain, etc. then it is advisable to enter your horizontal alignment under the Alignment Points, as here you have the option of overriding the stake values calculated by the program.

- Radius - Enter the circular radius at the Pi - this will only be applicable from the second Pi onwards but excluding the last point.
- Trans In - Enter the length of the ingoing transition.
- Trans Out - Enter the length of the outgoing transition.

The lengths of the two transition curves can differ from each other.

While the program is processing the input data, it will check for overlapping curves. If any of the curves are overlapping, the processing will be dismissed and the horizontal alignment will have to be corrected where the overlap occurs. The program will warn you at which Pi the curve is overlapping.

At the bottom of the screen, you have the following options:

- Exit - go to the main screen of the "Design" module.
- Save - save the data entered in the database.
- Insert - insert a new record before the one displayed.
- Erase - erase the displayed record.