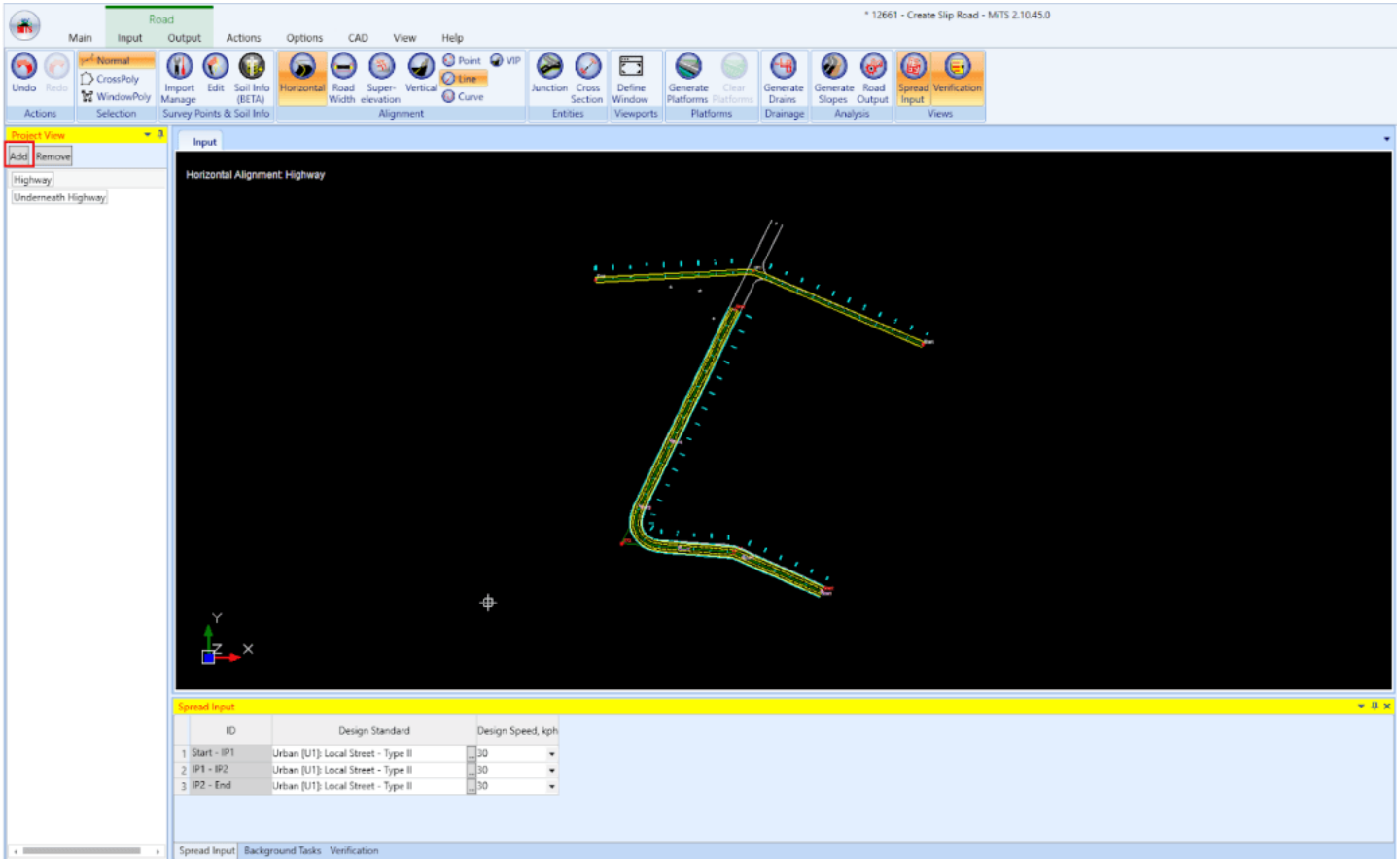
How to Create a Slip Road

Road · https://mes100.com/docs/how-to-create-a-slip-road/

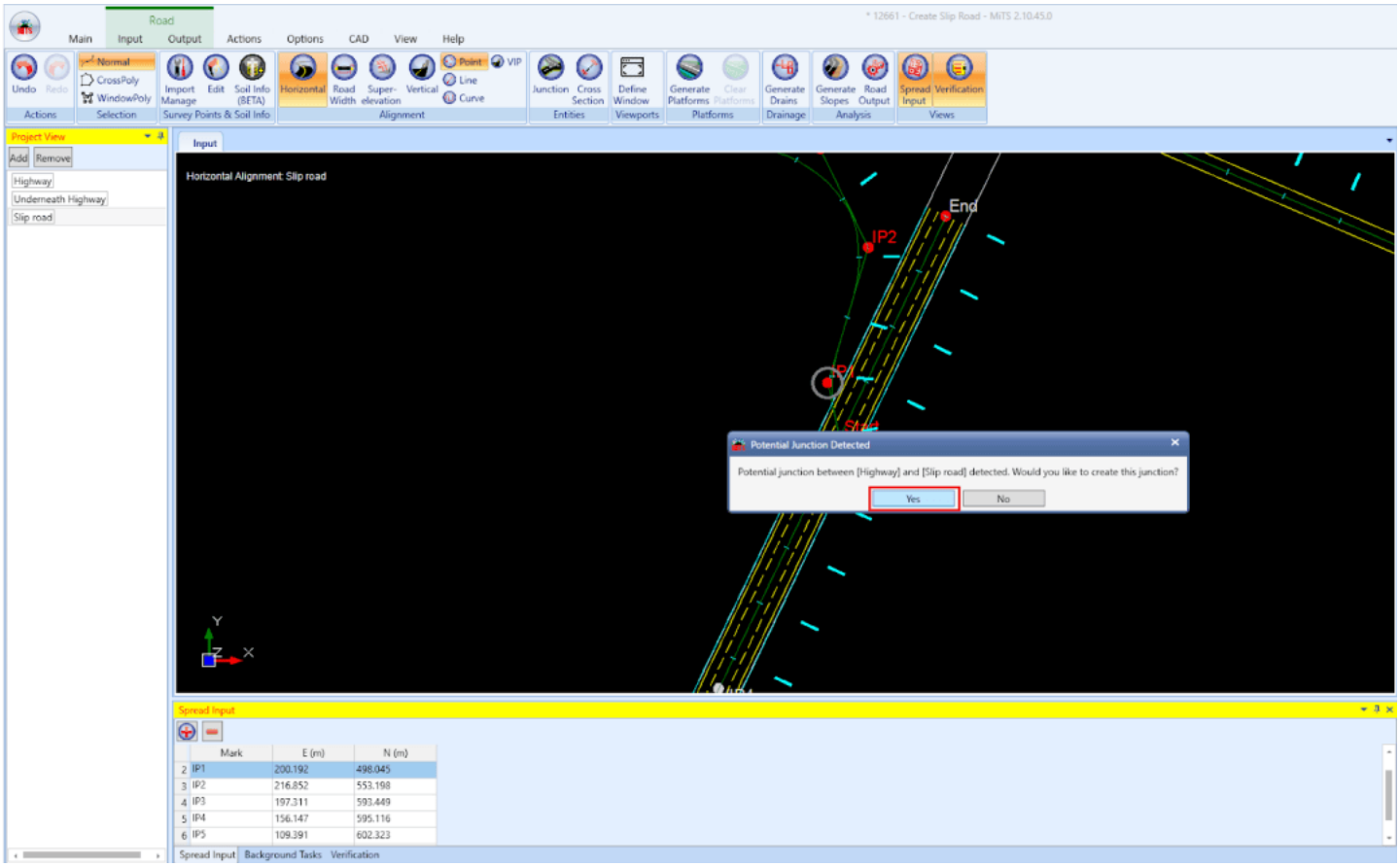
A slip road is a small road provided to enter or exit a highway section. In this blog post, we will show the users how to create a slip road connecting a highway and the road underneath it in MiTS 2.

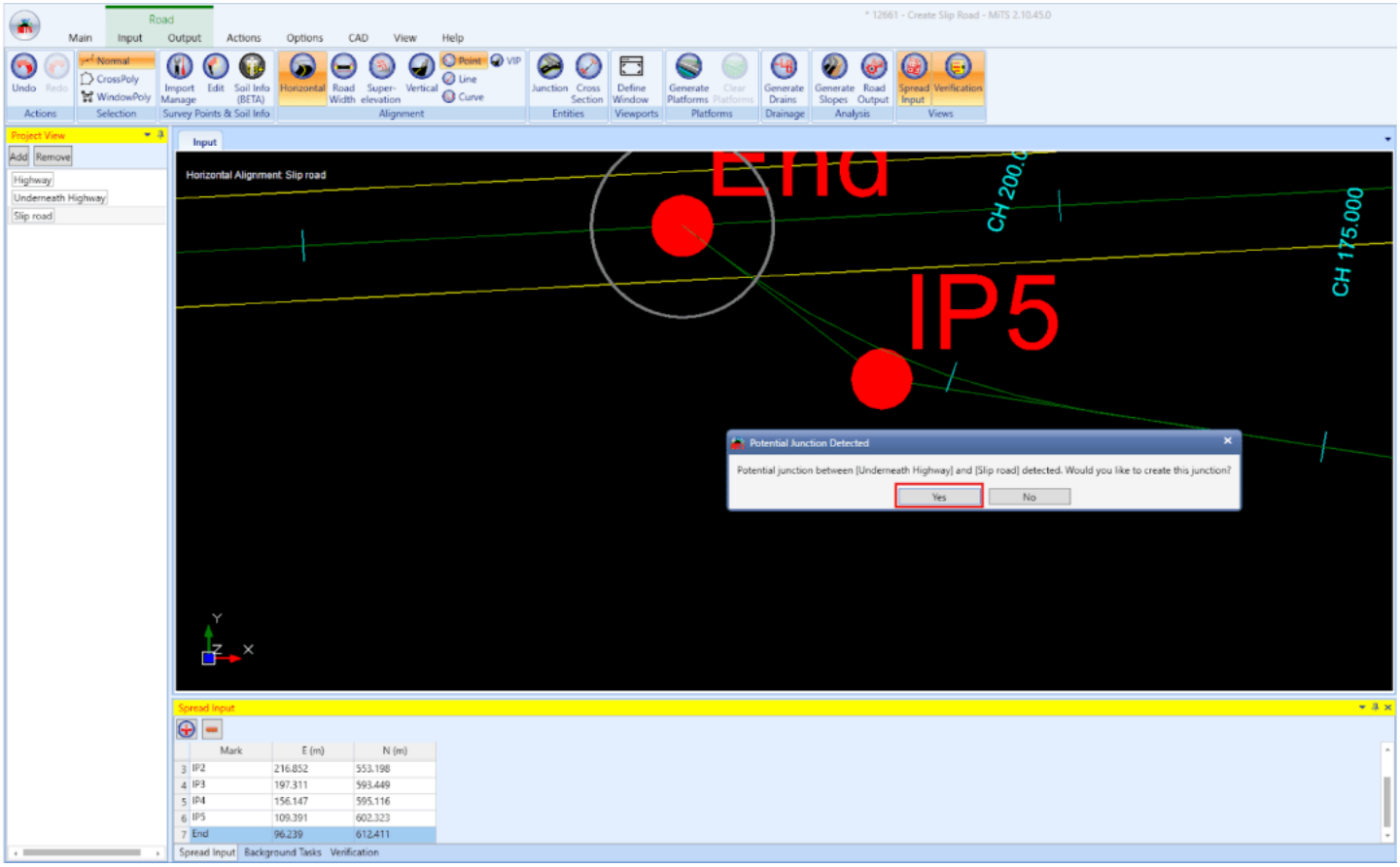
Sample project file can be found **here**

1. Add a new road and click on the new road to start the design

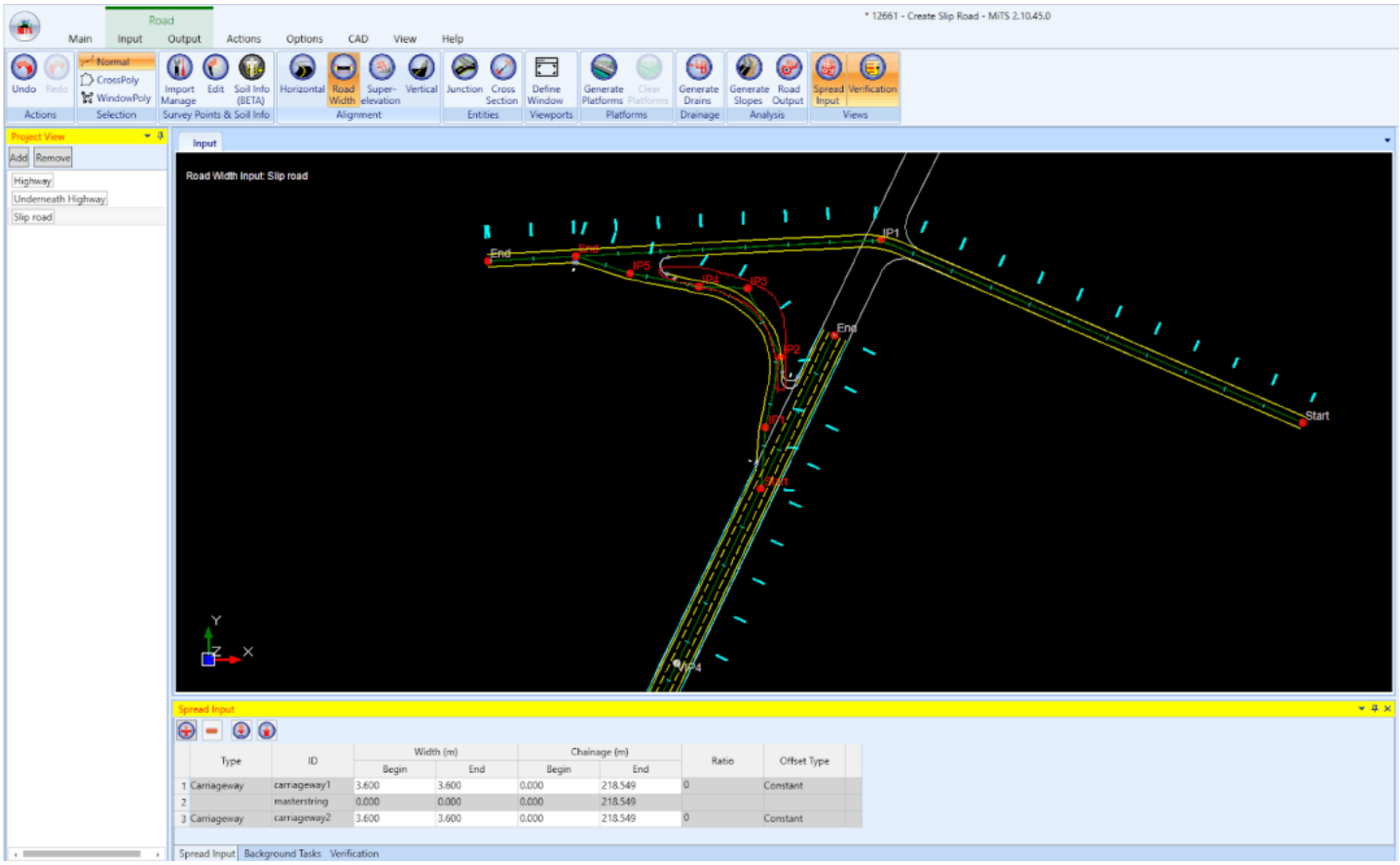


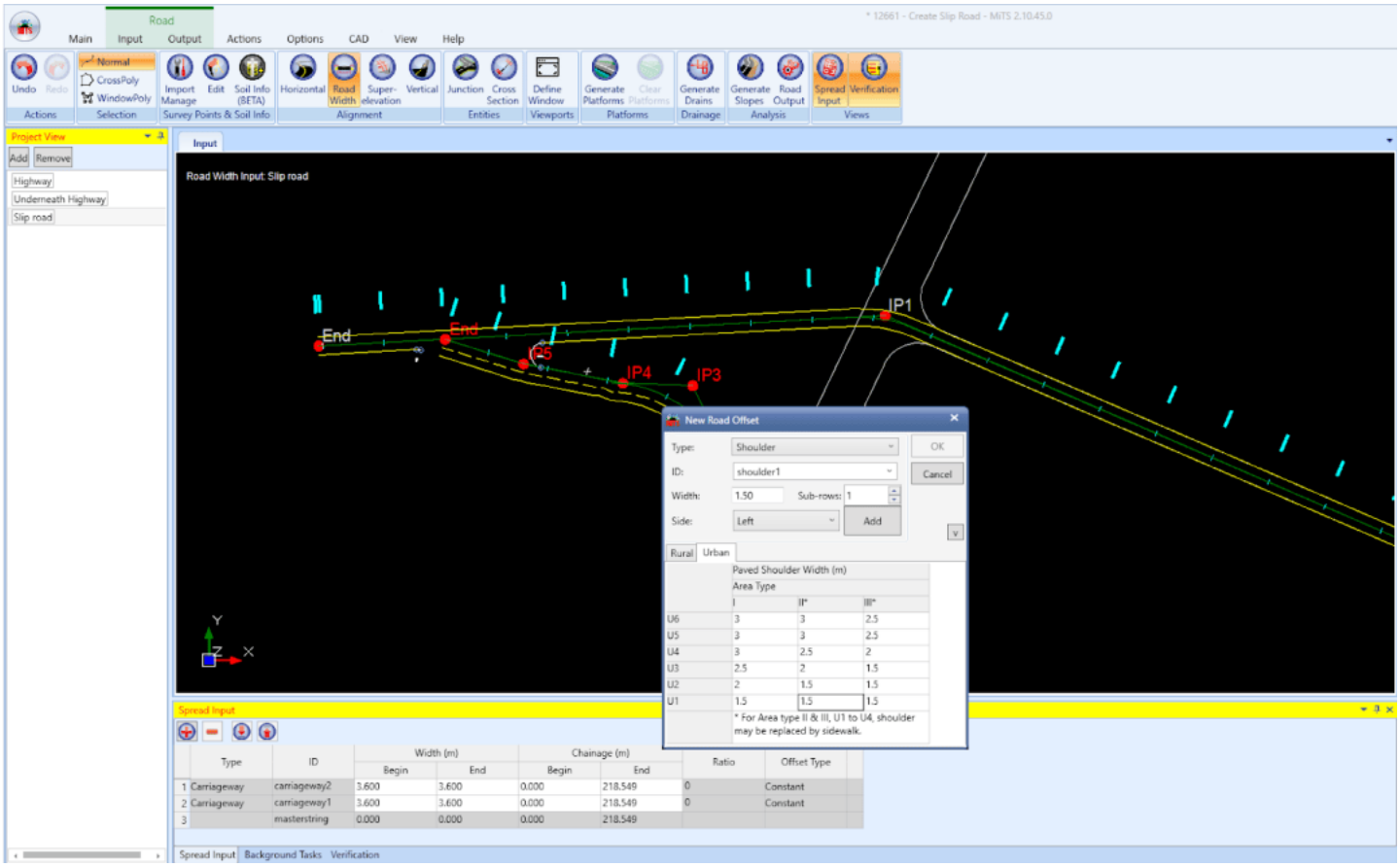
2. Create a new road by connecting all the IP road tracing. Click '**Yes**' when a notification to create a junction pop-up.


Horizontal Alignment: Slip road
End
IP2
Potential Junction Detected
Potential junction between [Highway] and [Slip road] detected. Would you like to create this junction?
Yes
No
Mark E (m) N (m)
IP1 200.192 498.045
IP2 216.852 553.198
IP3 197.311 593.449
IP4 156.147 595.116
IP5 109.391 602.323

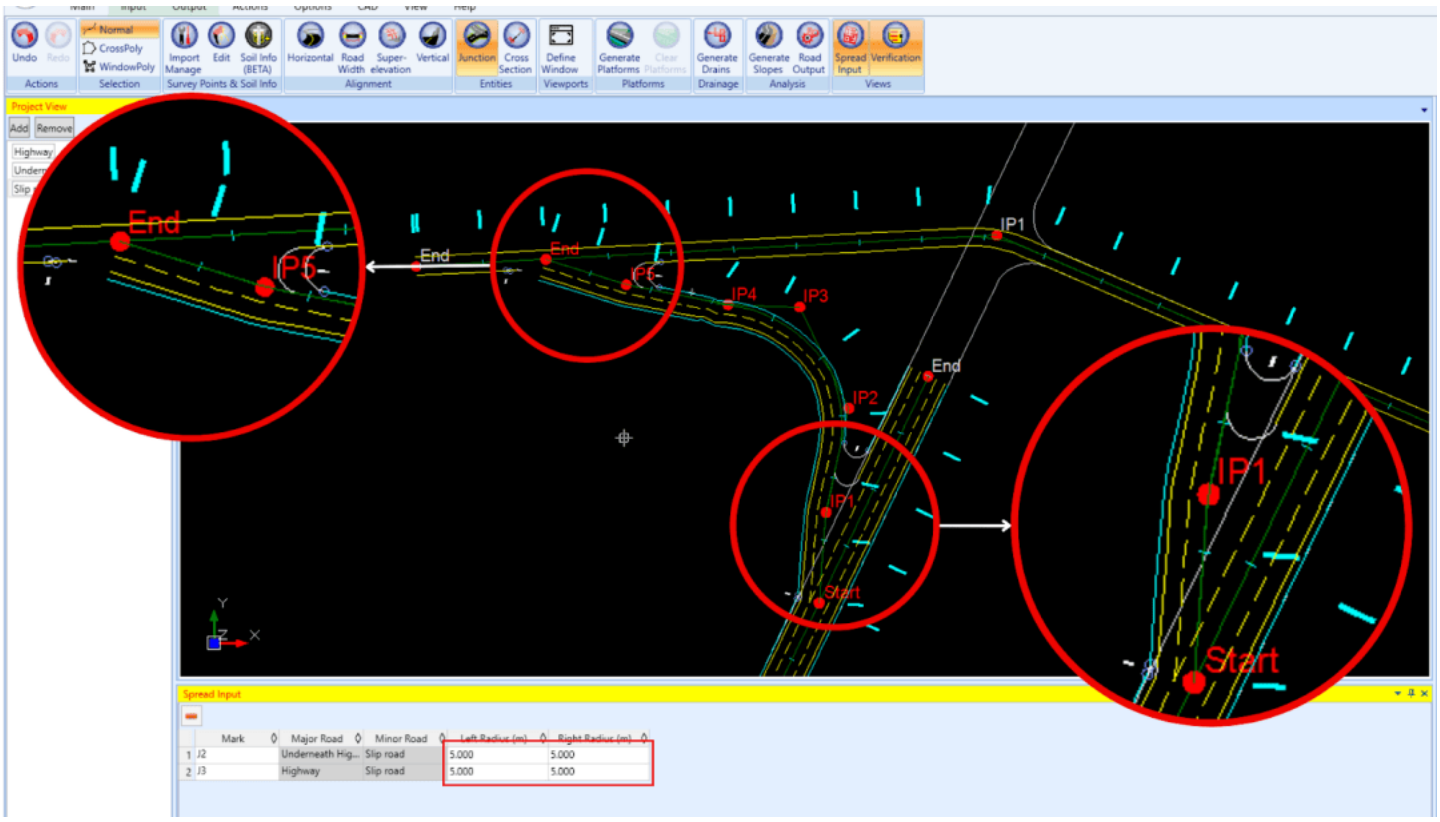

Horizontal Alignment: Slip road
End
IP5
CH 175.000
Potential Junction Detected
Potential junction between [Underneath Highway] and [Slip road] detected. Would you like to create this junction?
Yes
No
Mark E (m) N (m)
IP2 216.852 553.198
IP3 197.311 593.449
IP4 156.147 595.116
IP5 109.391 602.323
End 96.239 612.411

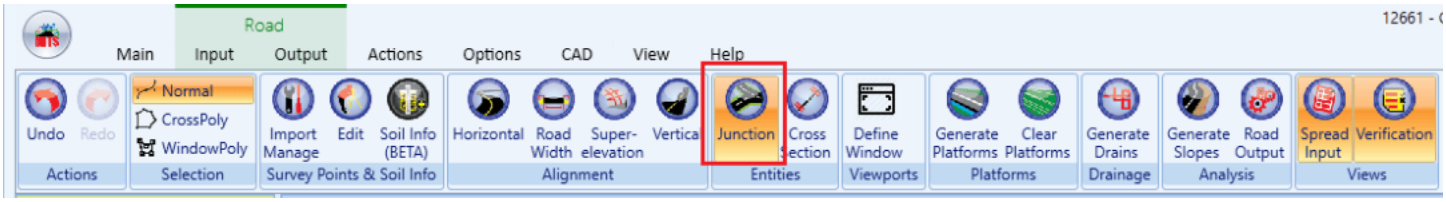
3. Since slip road is usually a one-way road, delete the irrelevant carriageway, in this example, it is the right carriageway. You can also add another left carriageway and shoulder.

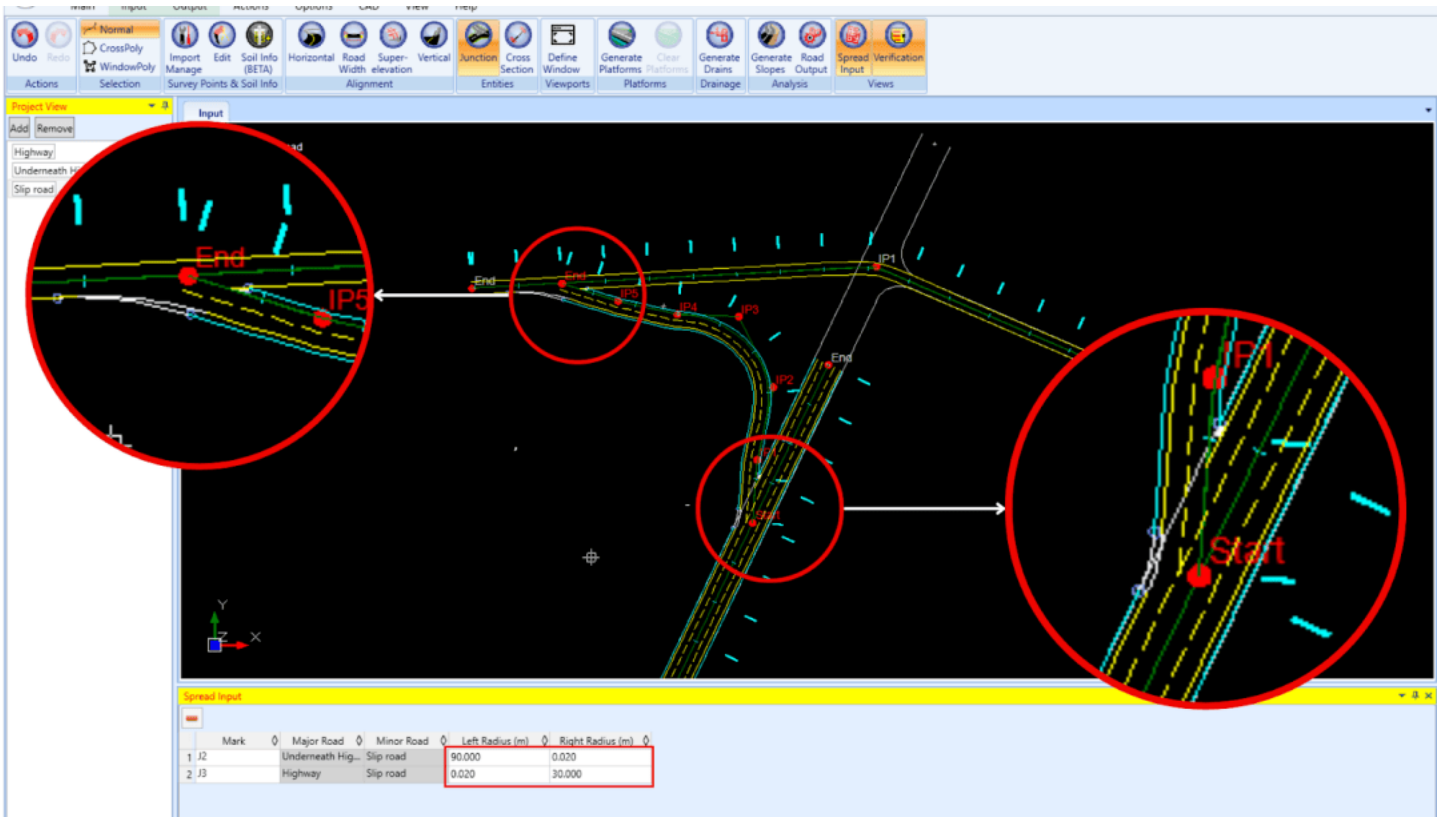




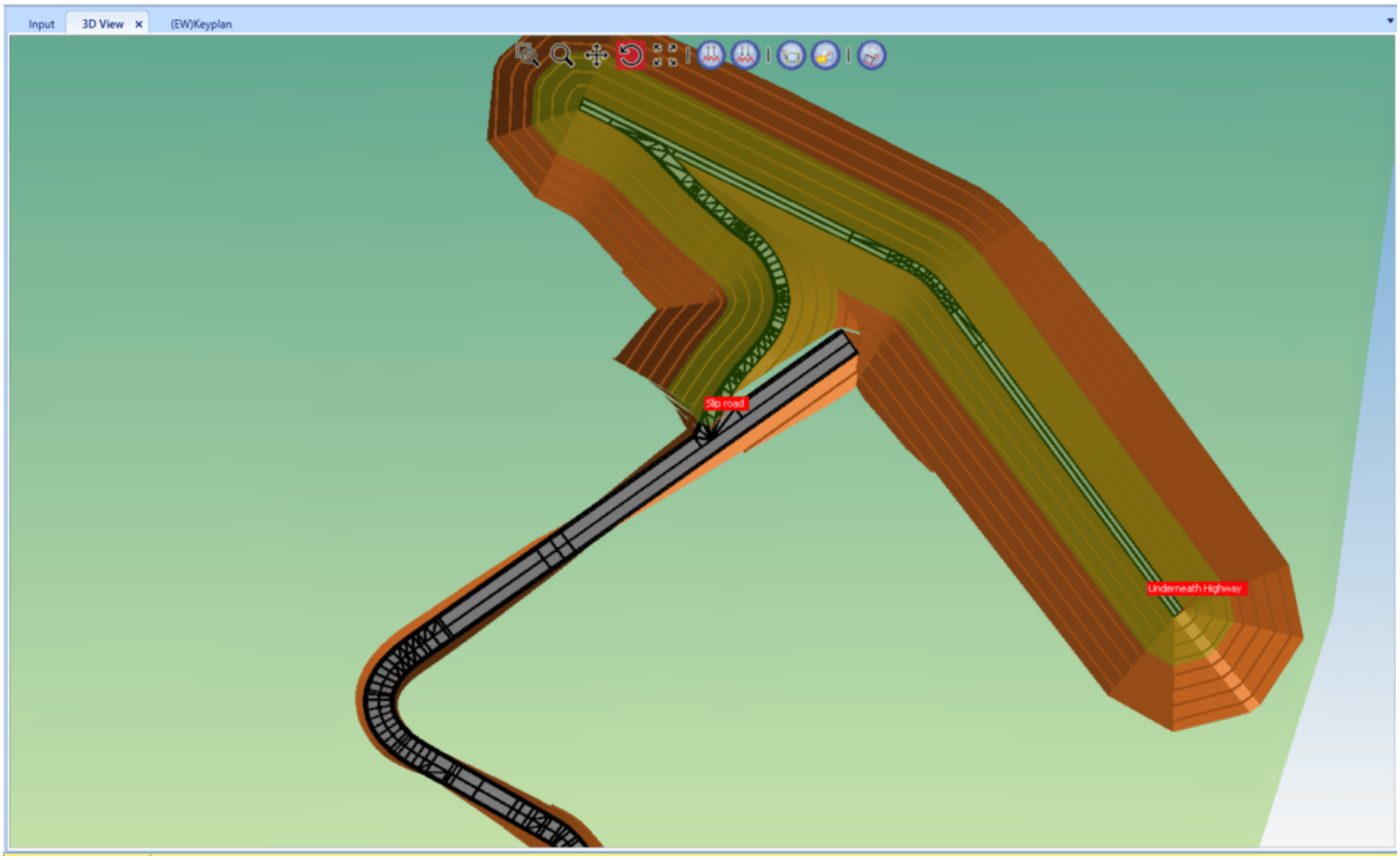
4. Now, as you can see, the junction angle is quite big, so if you want to make it smaller, in the 'Input' tab, go to; *Entities > Junction > Spread Input > Adjust Radius*

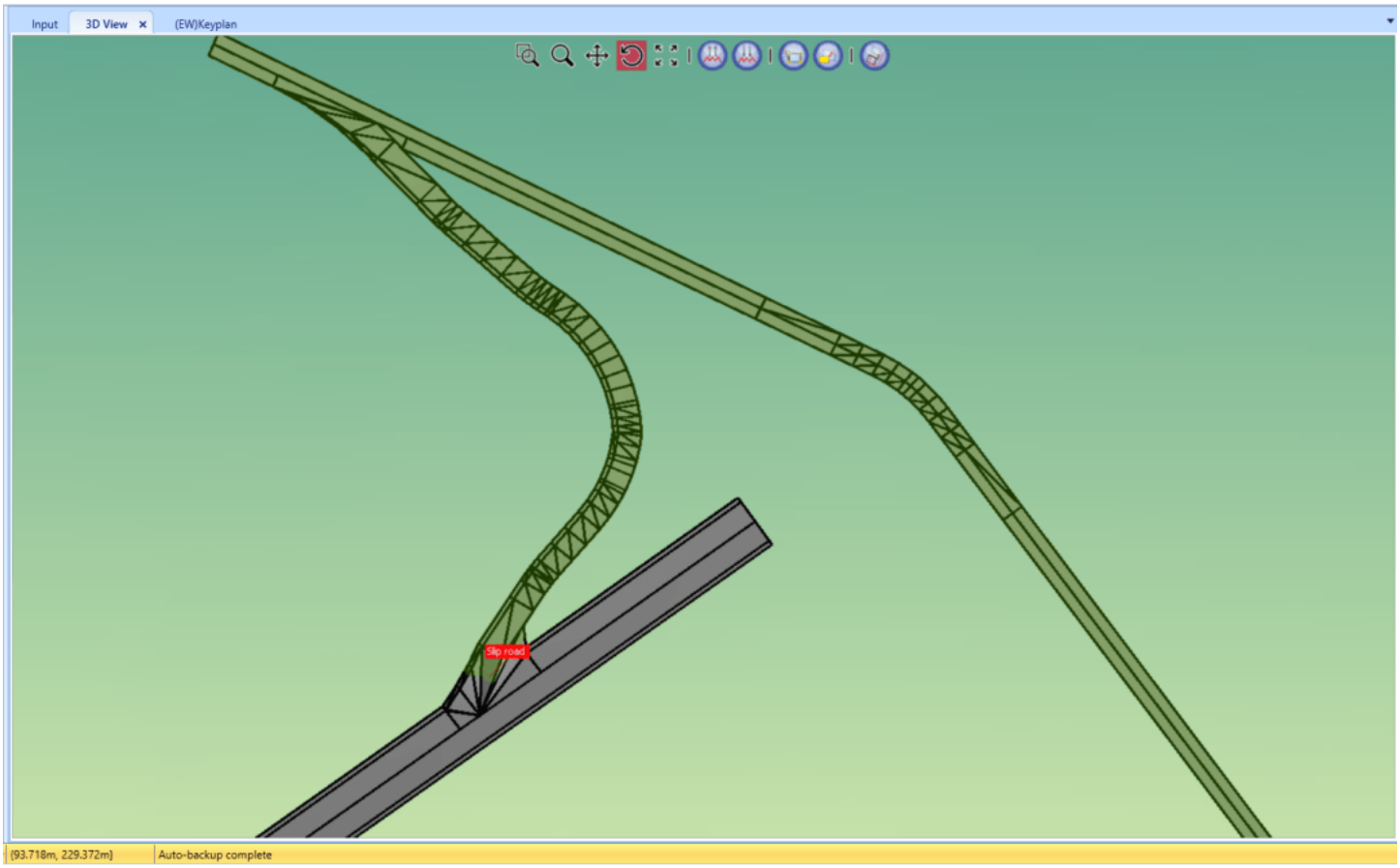

End
IP5
End
End
IP4
IP3
IP1
End
IP2
IP1
Start
IP1
Start
Spread Input
Mark
Major Road
Minor Road
Left Radius (m)
Right Radius (m)
1 J2
Underneath Hig...
Slip road
5.000
5.000
2 J3
Highway
Slip road
5.000
5.000


Main
Input
Output
Actions
Options
CAD
View
Help
Road
Undo
Redo
Normal
CrossPoly
WindowPoly
Import Manage
Edit
Soil Info (BETA)
Horizontal
Road Width
Super-elevation
Vertical
Junction
Cross Section
Define Window
Generate Platforms
Clear Platforms
Generate Drains
Generate Slopes
Road Output
Spread Input
Verification
Actions
Selection
Survey Points & Soil Info
Alignment
Entities
Viewports
Platforms
Drainage
Analysis
Views



5. Shown below is its 3D view





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Ngu Soon Hui

I'm the Benevolent Dictator for Life for MiTS Software cum Editor of this website. Read more here.

You can also contact me at soonhui@mes100.com