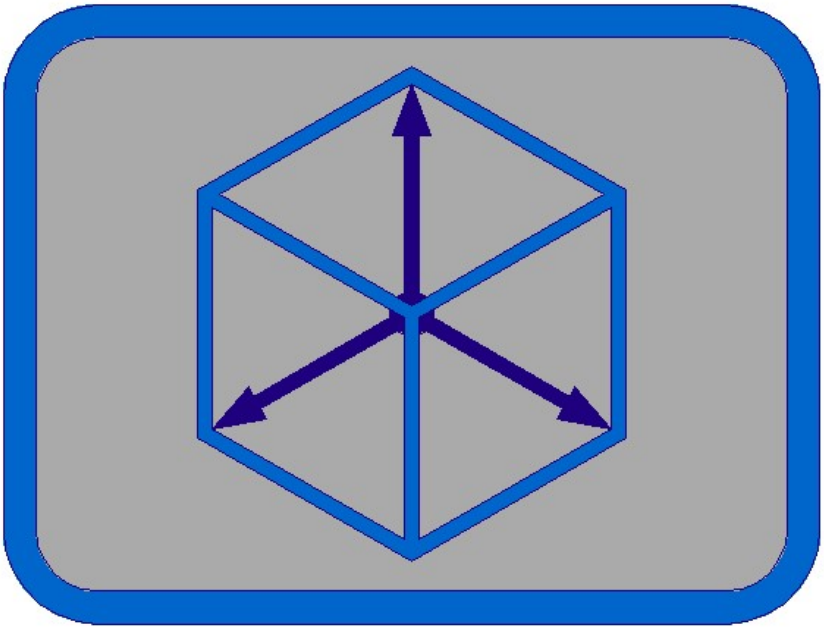
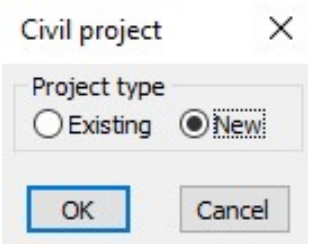
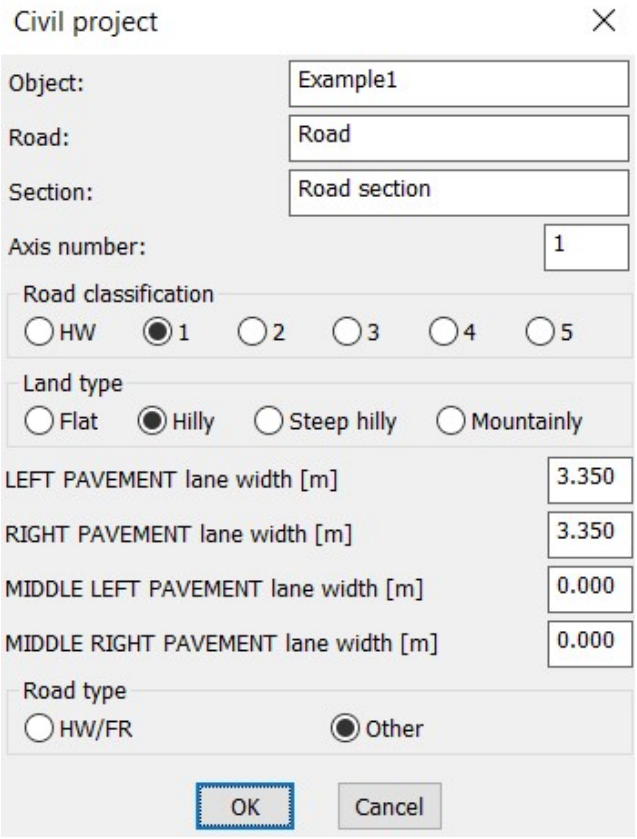


Module CIVIL

1. Loading module – define civil project creating file **Example1.prc**

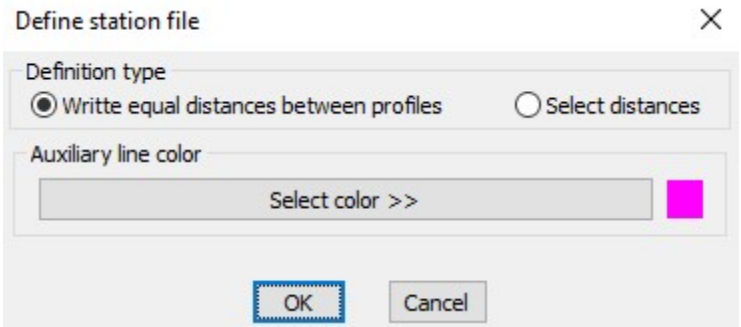


In new project we must first define input dates.



2. Define station file creating file **Example1.raz**

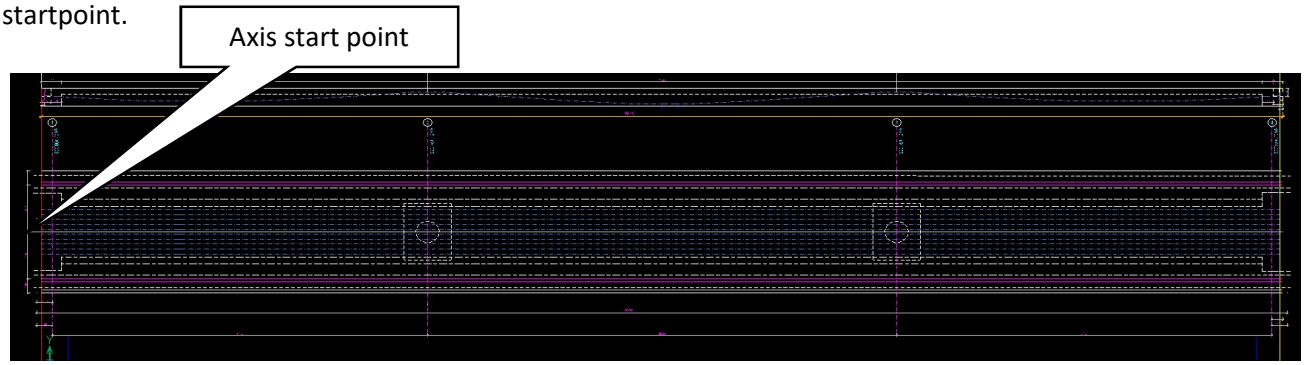
Defining stations - distances, for cross axis and deck construction cross sections drawing.



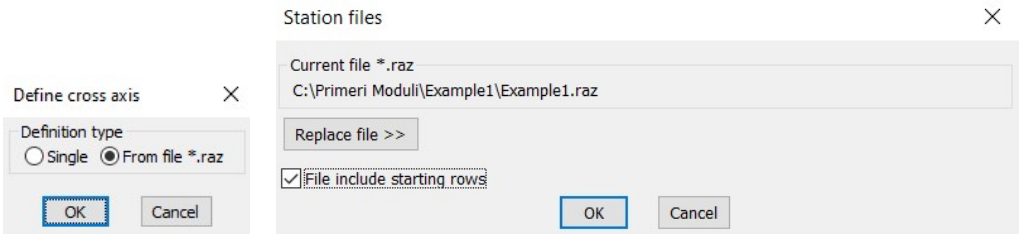
For drawing of 3d model, where in the equal profile (cross axis) apears two different sections, we must define equal stations!

3. Checking axis start point.

   We usually extend polyline - axis for 1m in opposite station direction. **Polyline must be drawn in station direction!** For polyline start point check use command in module BASICS -> Ratio -> Pedit -> Select polyline startpoint.



4. Define cross axis file creating file **Example1.pro**

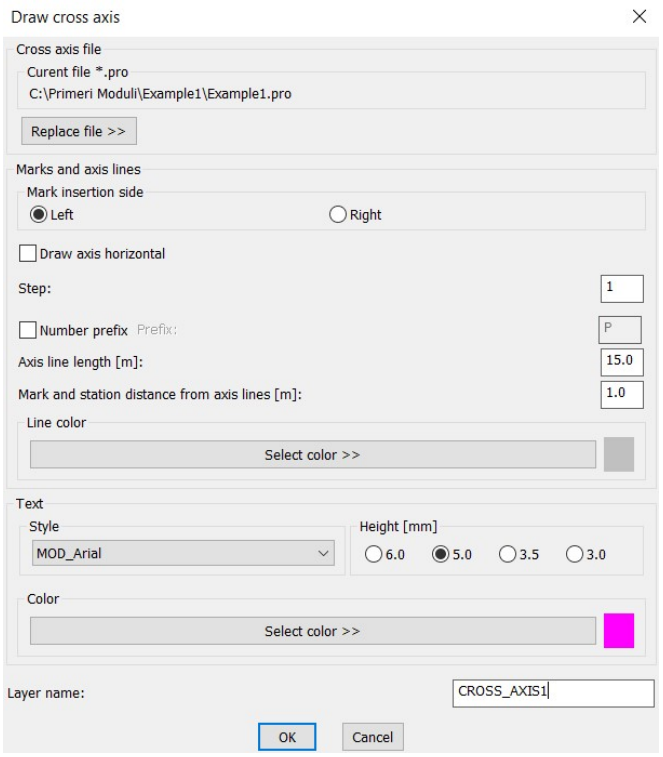


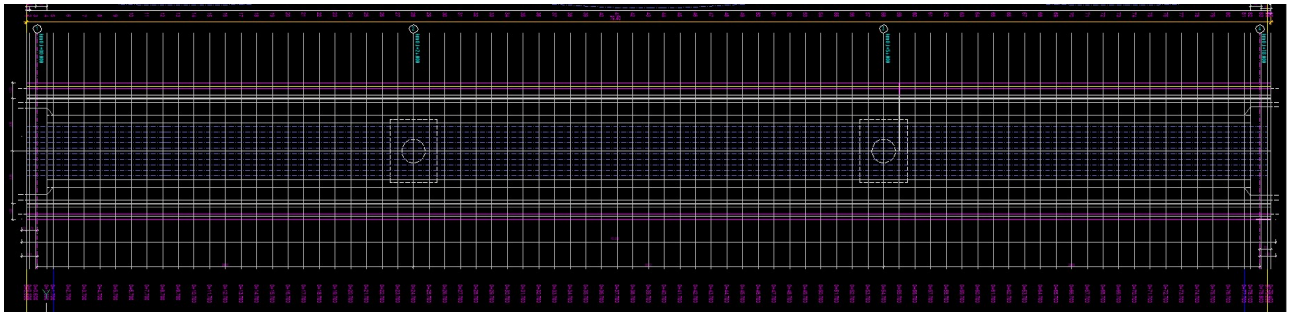

```
Selected station file: C:\Primeri Moduli\Example1\Example1.raz
Select starting side of site plan AXIS on 2D or 3D polyline:
Axis length = 80.400 m.
Station on start of EXTENDED AXIS in m < 0.000 >: -1

Minimum distance to 1. axis must be > 0.10!
Distance to 1. cross axis <1.000>:
1.axis number < 1 >:

Data processing ... finished.
Define NEW file for CROSS SECTION AXIS.
Writting dates to file << C:\Primeri Moduli\Example1\Example1.pro >>. finished
```

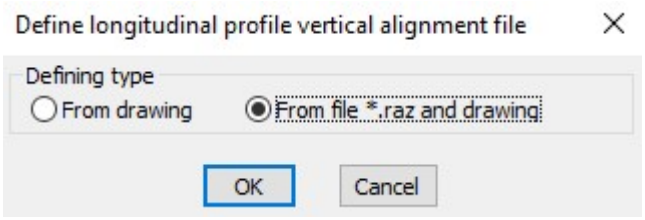
5. Draw cross axis



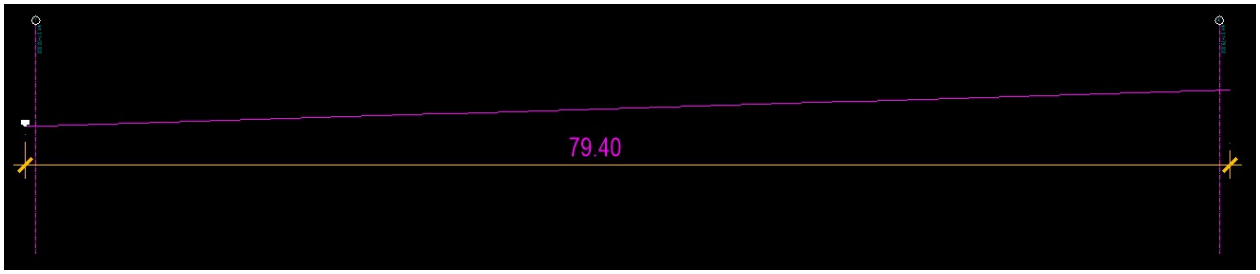


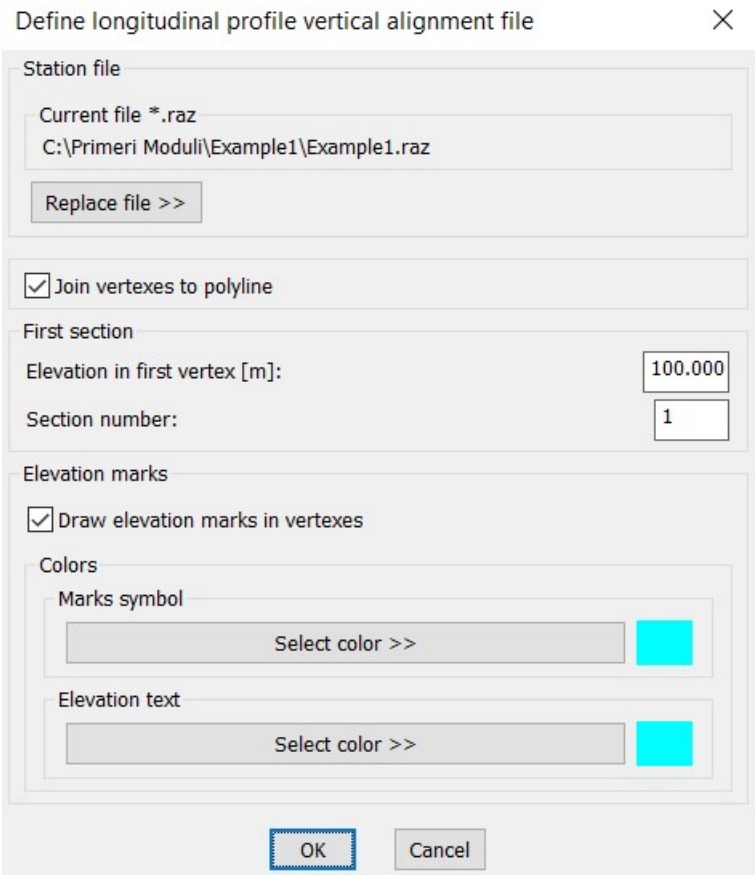
LONGITUDINAL PROFILE

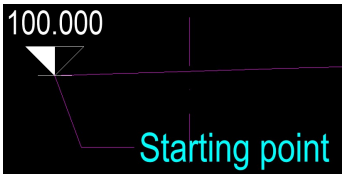
6. Define longitudinal profile vertical alignment file creating file **Example1.nvp**



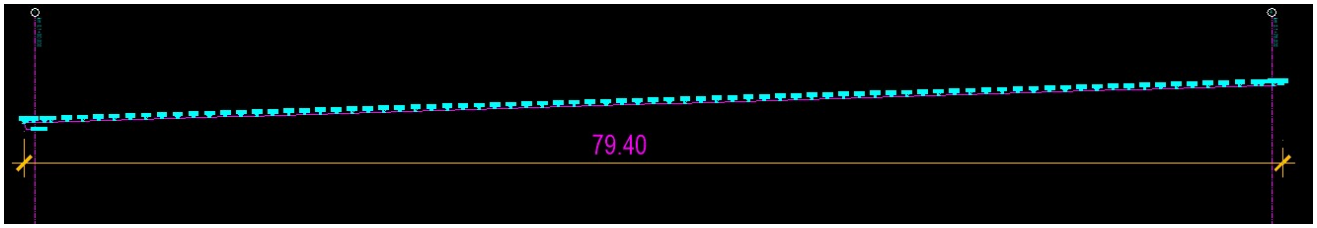
Select polyline – vertical alignment, laying in station area and defined in file Example1.raz. Starting points of all selected polylines in longitudinal profile, must proceed from left to right! Poylines must be without arcs. First replace arcs in polylines in module BASICS with command Ratio -> Change arc/circle to polyline.



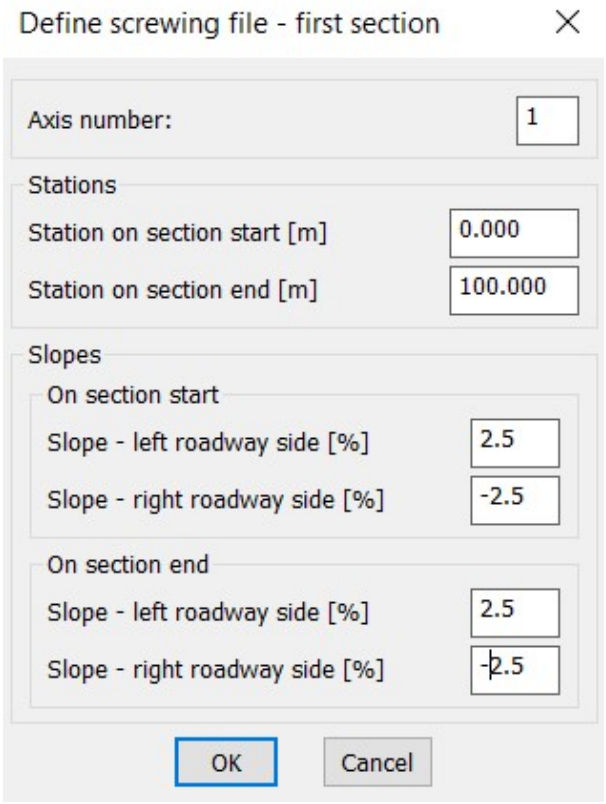


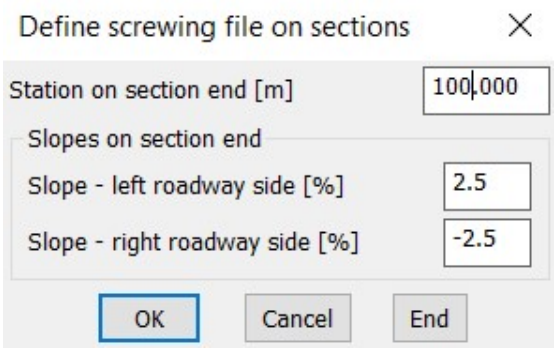


```
Selected station file: C:\Primeri Moduli\Example1\Example1.raz
Select 2D or 3D longitudinal profile polyline:
Processing ...
Elevation symbol direction    Up/Down <U>:
 finished.
Define NEW longitudinal profile vertical alignment file.
Selected longitudinal profile vertical alignment file:C:\Primeri Moduli\Example1\Example1.nvp
Writting dates to file << C:\Primeri Moduli\Example1\Example1.nvp >> ...  finished.
```



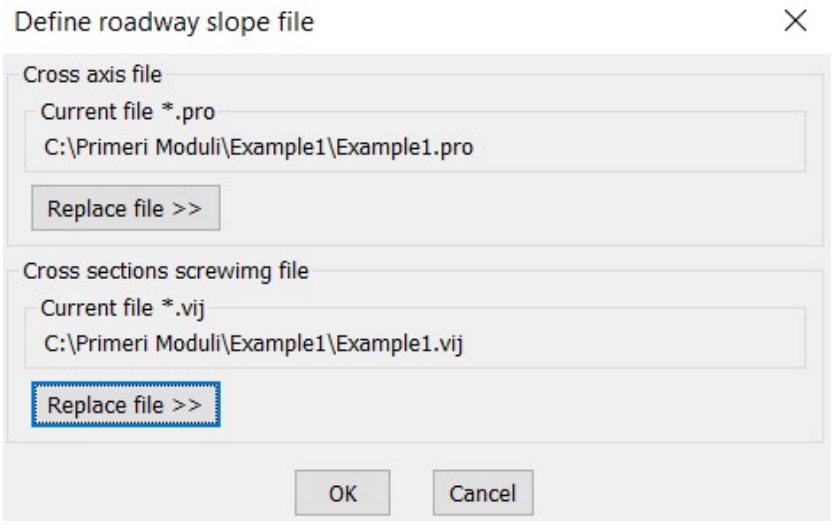
7. Define screwing file creating file **Example1.vij**



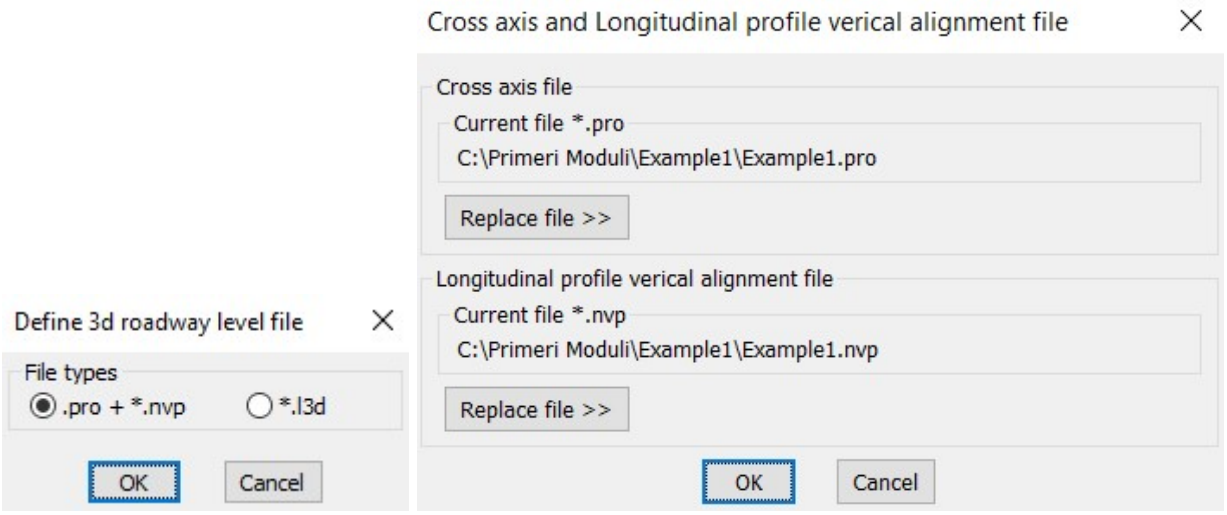


CROSS SECTIONS -> ROADWAY

8. Define roadway slope file in cross sections creating file **Example1.psk**



9. Define 3d roadway level file creating file **Example1.o3d**




```
Selected cross axis file: C:\Primeri Moduli\Example1\Example1.pro
Selected longitudinal profile verical alignment file:C:\Primeri Moduli\Example1\Example1.nvp
Define NEW 3d roadway level file.
3d roadway level file: C:\Primeri Moduli\Example1\Example1.o3d
Writting dates to file << C:\Primeri Moduli\Example1\Example1.o3d >> ...  finished.
```

10. Define roadway and widening file in cross sections creating file **Example1.voz**

Because the roadway has widening, select in column Widening Variable and after them we select in situation or sketch left and right roadway border.