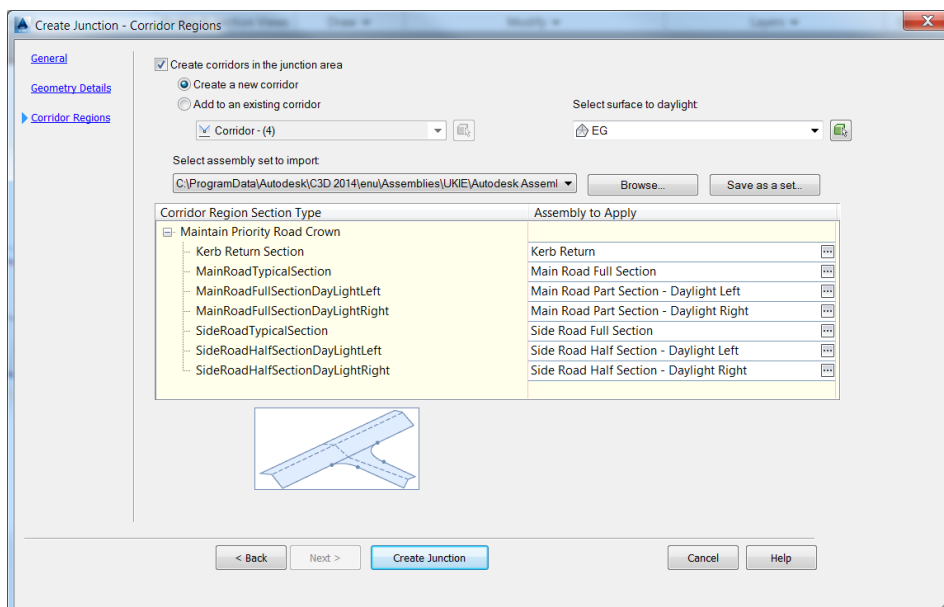


Using Custom Assemblies Sets in the Civil 3D Junction Wizard

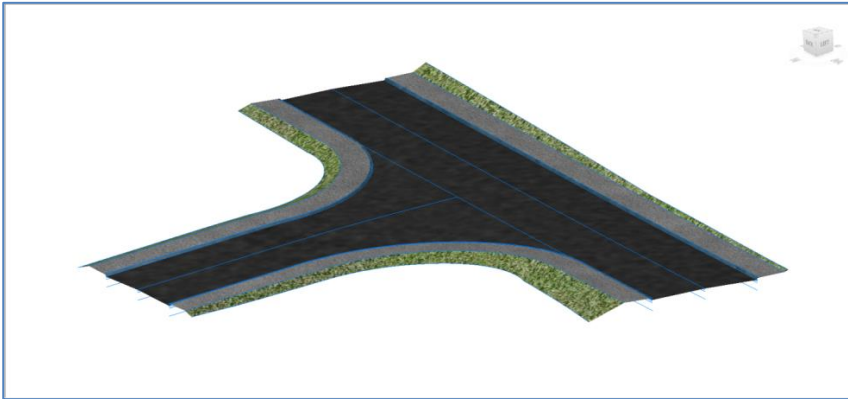
How to replace the standard assembly set provided in the Civil 3D Junction Design wizard with a customised set.

Introduction

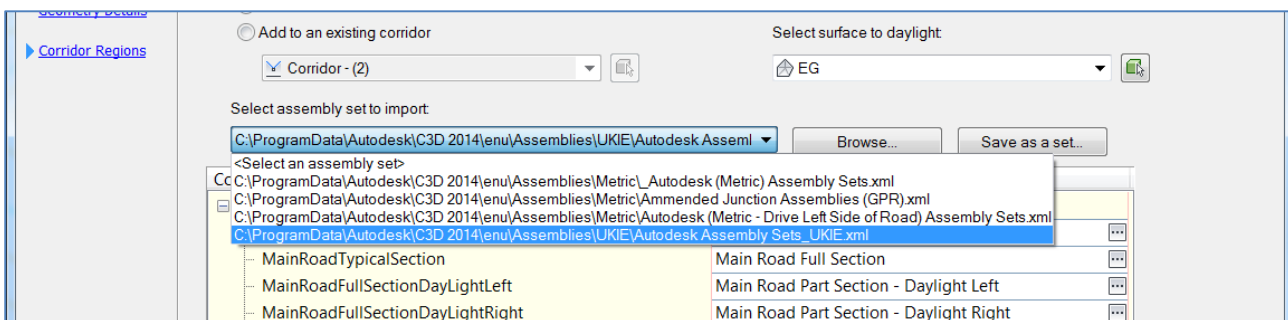
When designing a road junction using the Create Junction wizard in Civil 3D the third stage of the wizard provides a default set of seven assemblies required to properly design the junction.



Using the standard UKIE assembly set the finished junction will look similar to below:



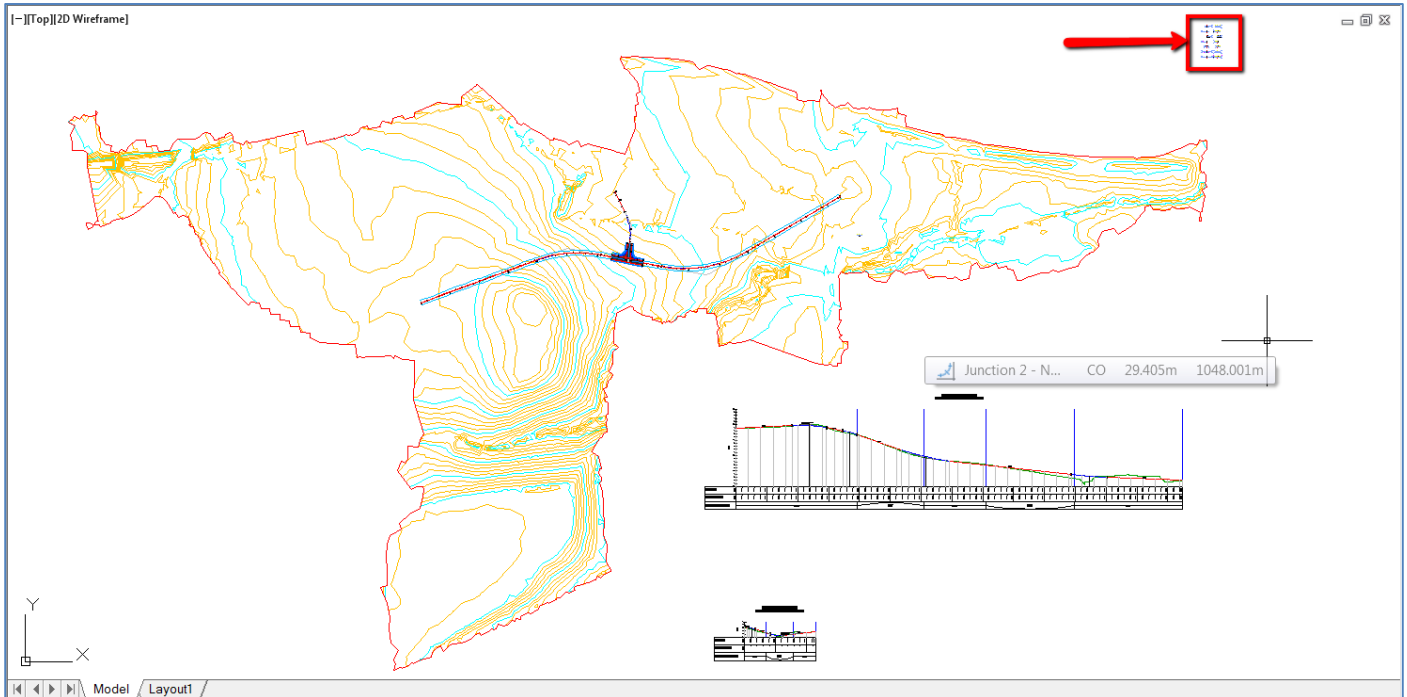
Alternative sets of assemblies can be selected using the 'Select assembly set to import' drop down.



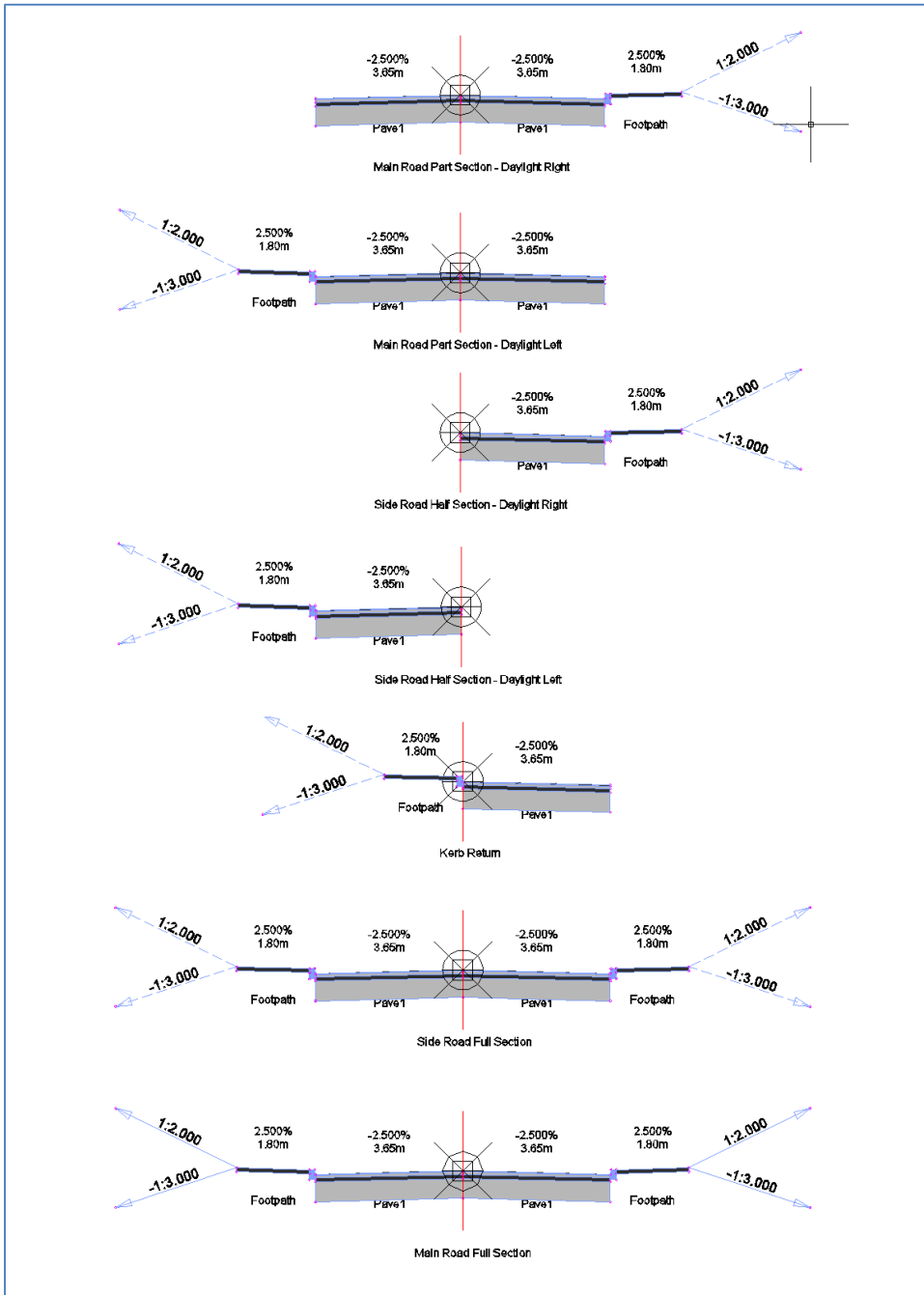
However there are occasions when you might need to create your own set of custom assemblies to define a junction.

Workflow

Firstly create a junction using one of the default assembly sets available in the Junction Wizard. For the wizard to create the junction it must first load the chosen set of assemblies into the current dwg. The assemblies are usually positioned somewhere near the top left of your drawing.

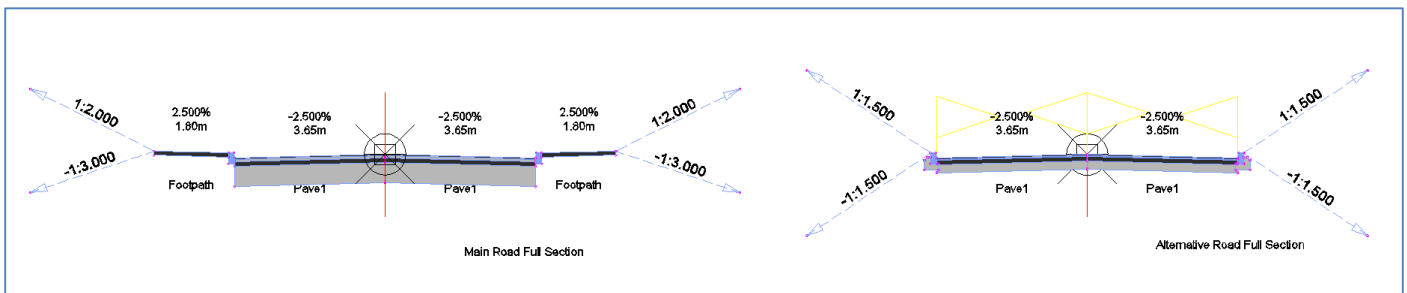


Zoom in to inspect the pre-loaded set of assemblies to view the type of assemblies required by the wizard.

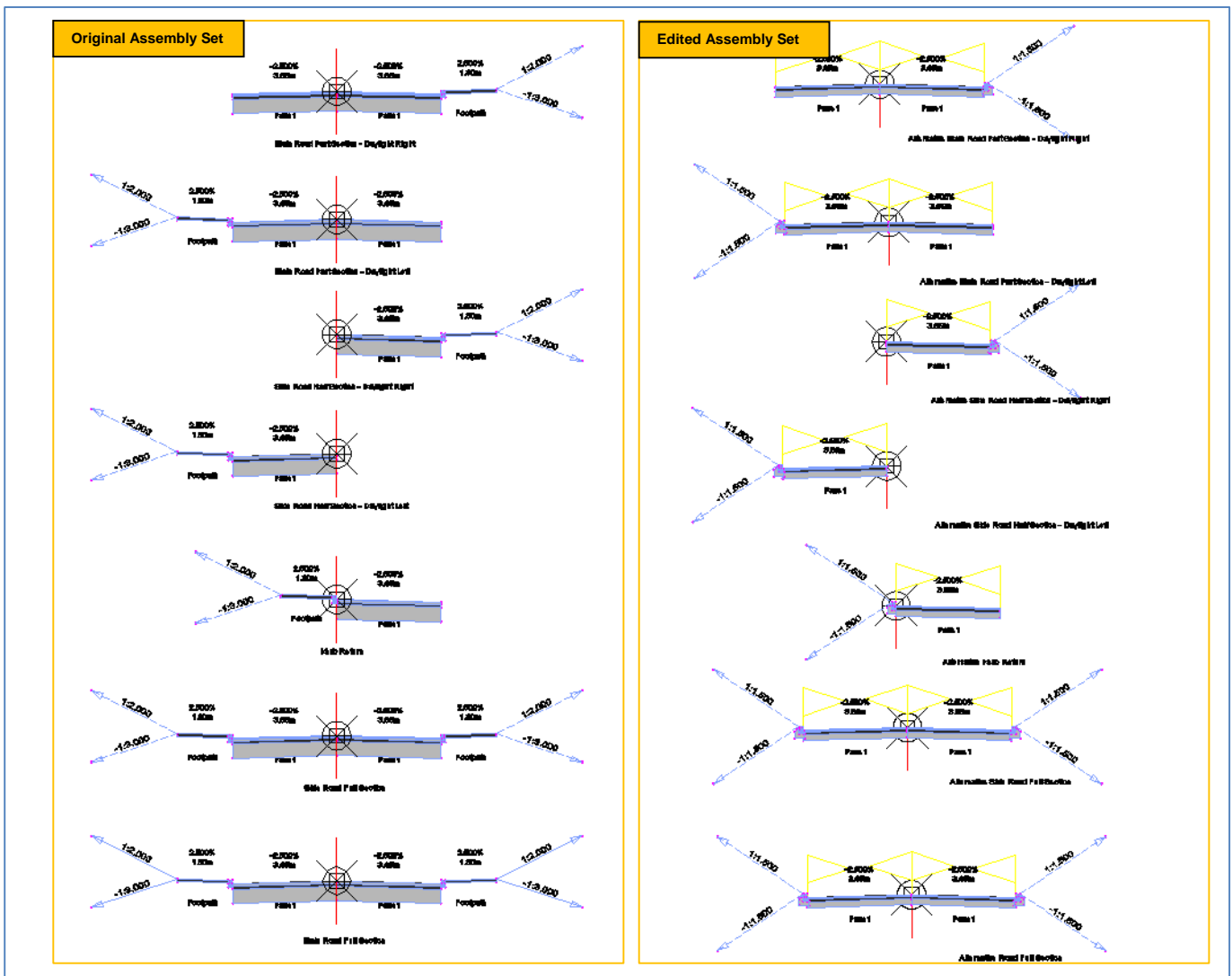


To ensure the Junction Wizard has the correct number and type of assemblies to complete the design it is best to use the current set as a guideline.

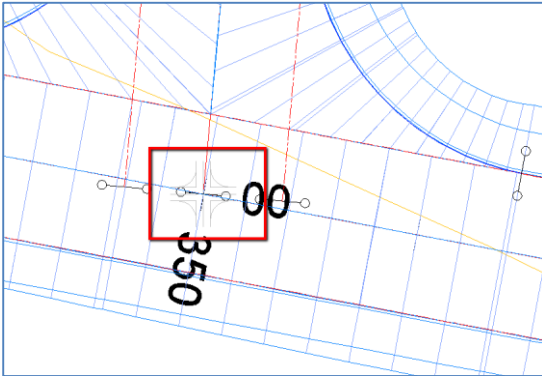
In the example below the **Main Road Full Section** assembly has been copied and edited to produce **Alternative Road Full Section**. The alternative assembly has a different kerb profile, no footpath, a shallower SubBase depth and steeper earthworks.



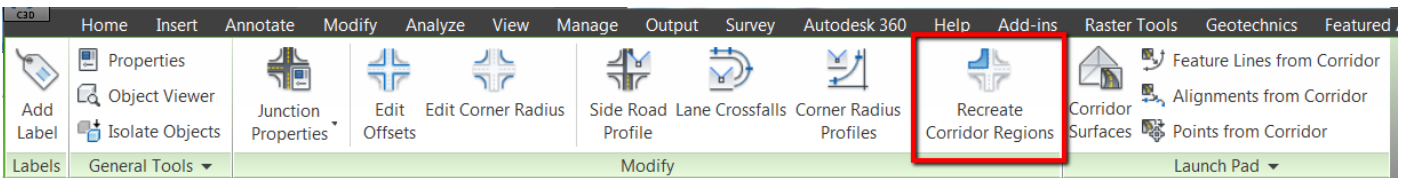
New assemblies will need to be created (or suitable existing assemblies selected from the tools palette) to match each of the assembly types required by the Junction Wizard. (See below)



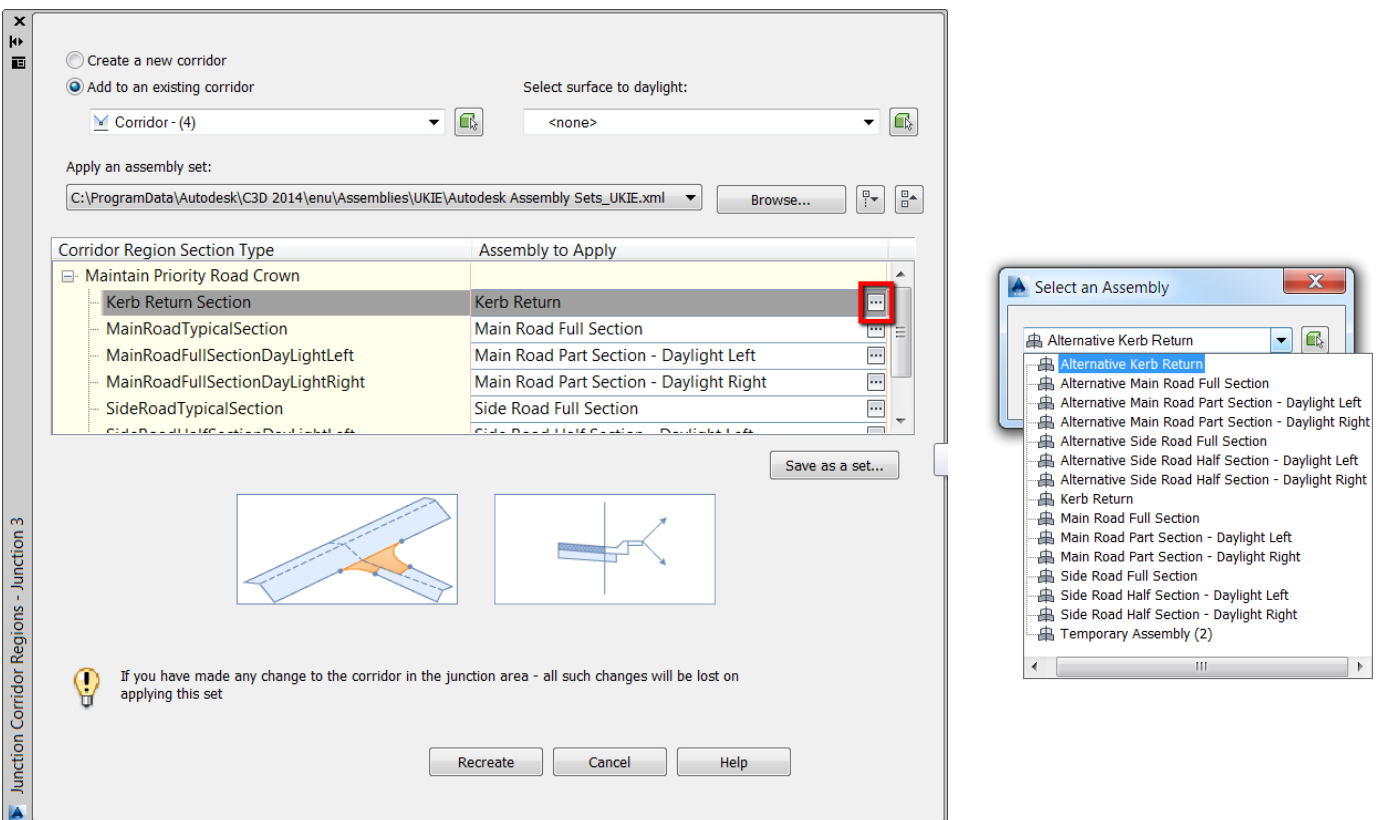
To apply the new assembly set, zoom in and select the Junction icon as shown below.



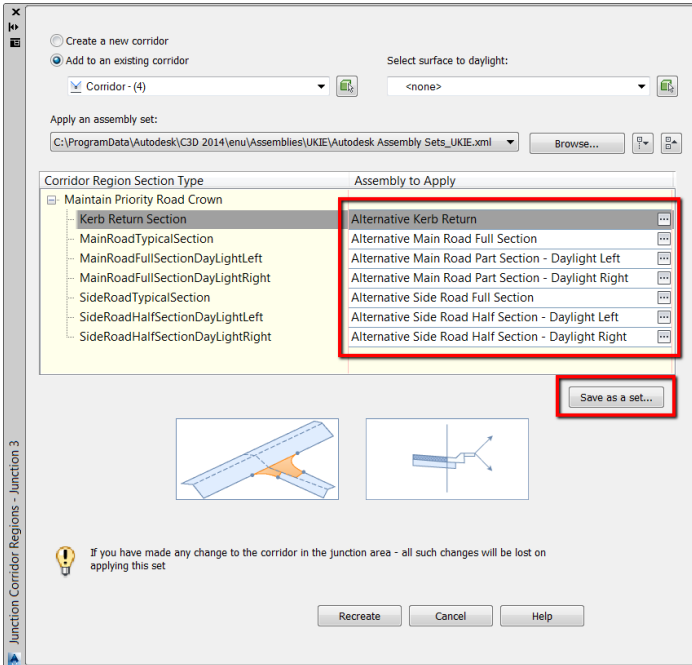
From the contextual menu select **Recreate Corridor Regions**.



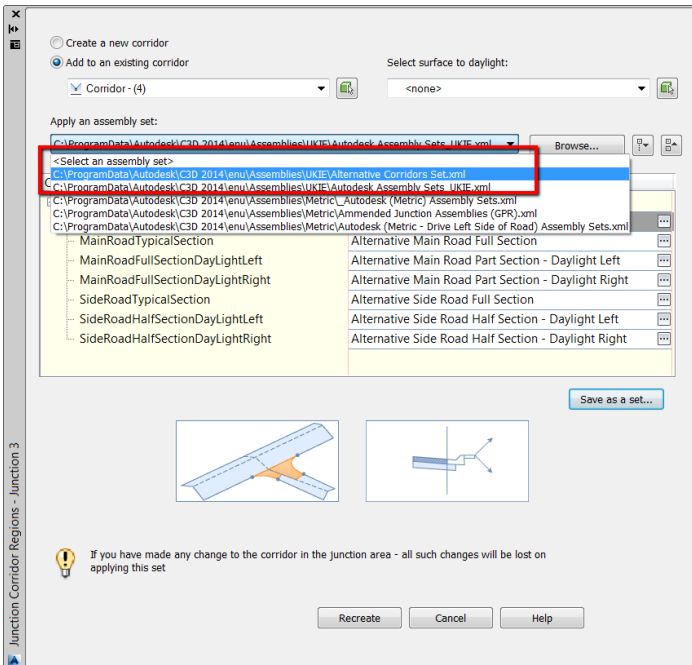
For each assembly type select the ellipsis (...) button and chose the appropriate alternative assembly.



When all the assemblies have been loaded into the dialogue select 'Save as a Set' and provide a name for the assembly set.



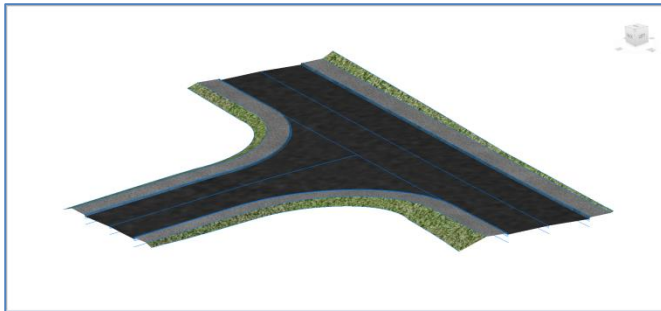
The new assembly set is now available from the drop down list.



Select the 'Recreate' button to apply the new assembly set.

The junction with the new assembly set applied is shown below alongside the original

Original



Alternative

