

Civil 3D 2016 – Offset Assemblies

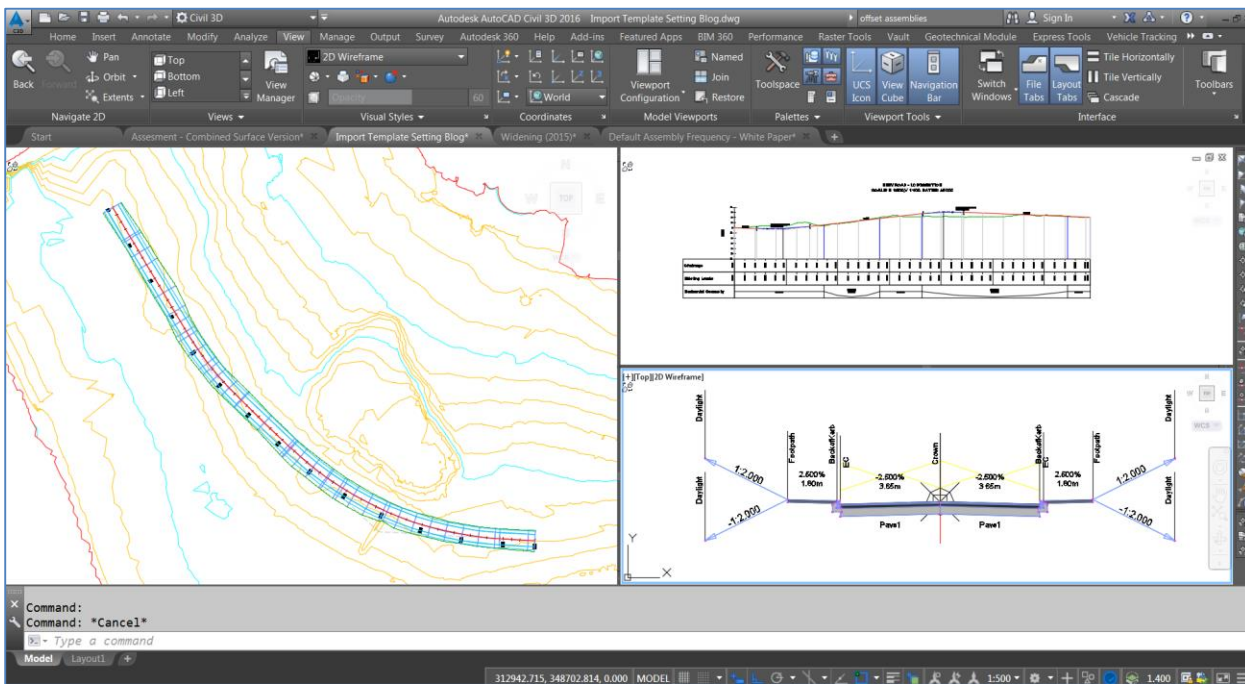
How to use Civil 3D offset assemblies in corridors

Introduction

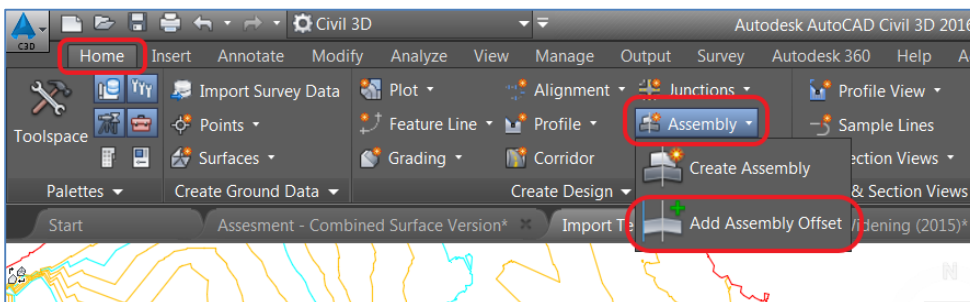
A feature that is often overlooked in corridor design is the use of offset assemblies. This feature allows assemblies to ‘appended’ to an existing assembly at either a fixed offset or, more usefully, to be targeted to a separate alignment and profile.

Method

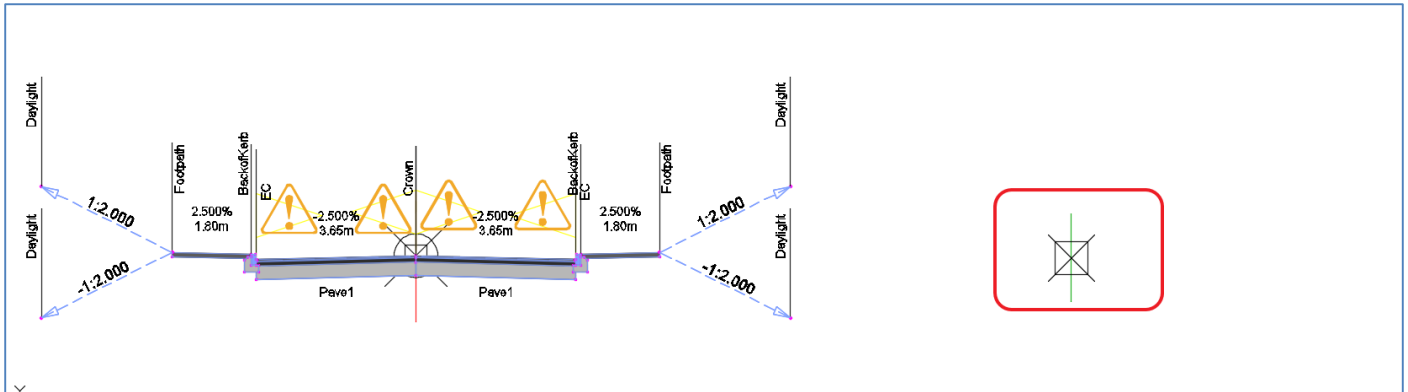
The drawing below shows a simple corridor made up of a horizontal alignment, profile and a simple road corridor:



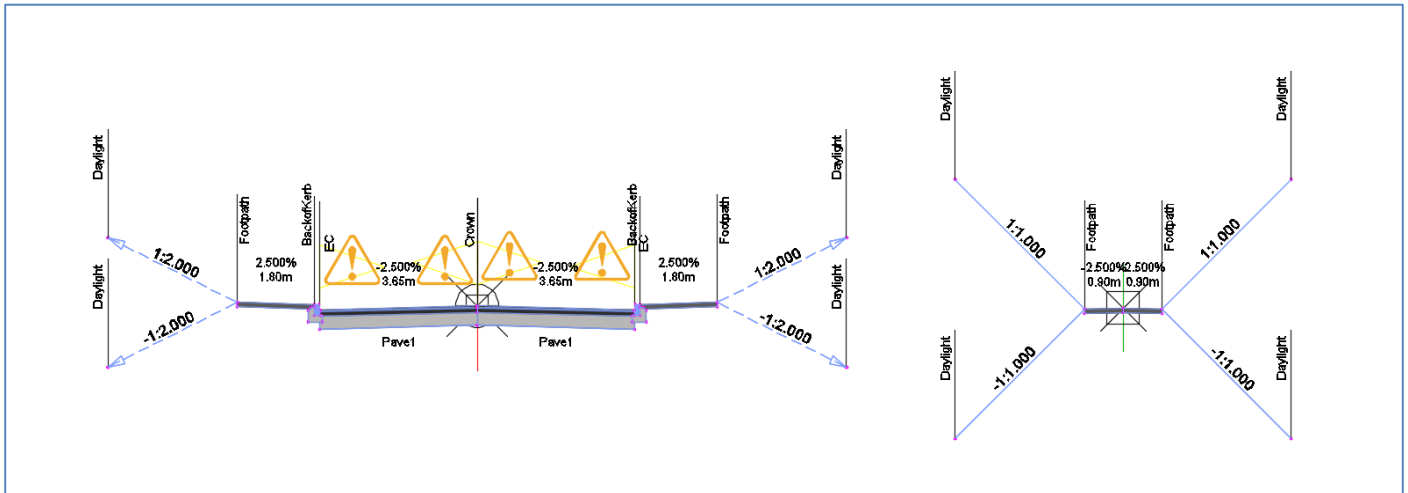
From the Home Tab select Assembly > Offset Assembly:



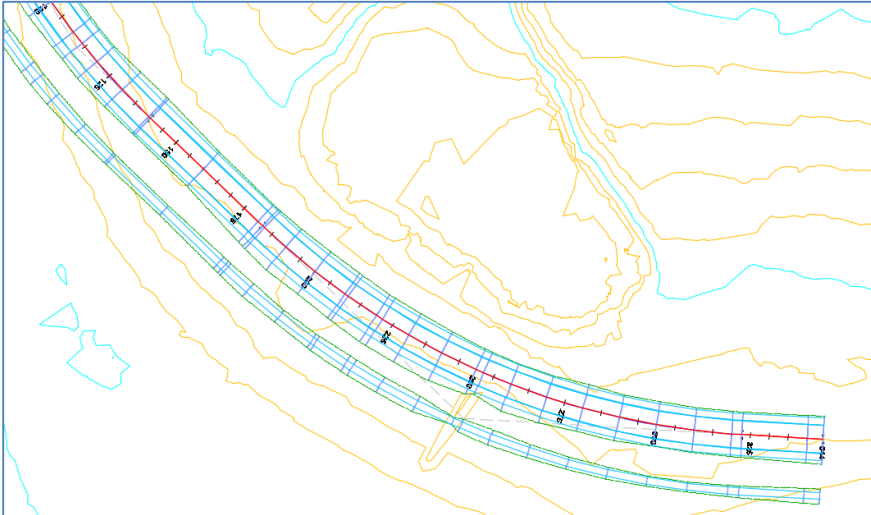
You will be prompted to select an existing assembly to offset from and an offset distance. The insertion point for the offset is shown below:



The example below shows the main road assembly and a separate footpath assembly offset at 15m.

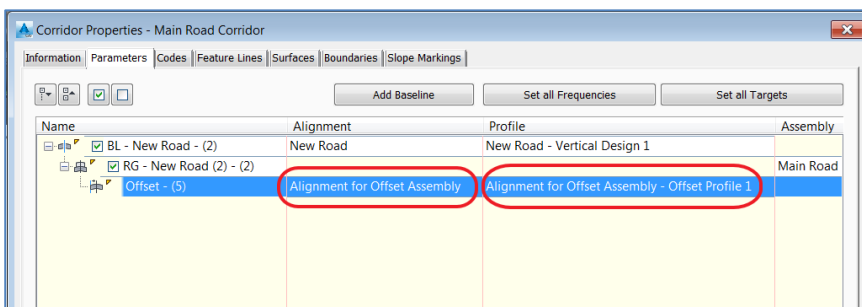


The offset assembly is immediately added to the corridor.



Targeting another Alignment and Profile

By default the offset assembly will use the same horizontal alignment and vertical profile as the main assembly but it can also be targeted to a separate alignments and profiles.



This will allow the offset assembly to be designed independently of the parent alignment.

