10_14 DRIVE THRU VIDEO

Question:
Is there a way to export a video from Microstation of the drive through from within roadway designer?

Answer:
It is limited what you can do with the drive through. I've played around with the Microstation Animation tools in the past and found it to be cumbersome.

I've recommend using a third party software like Snagit to create the videos (see attached AVI).

Note that I was heavily criticized earlier for doing the Design Verification and Model Visualization training chapter on our Corridor Modeling webpage. Even though the level of detail will not be anything close to our once highly valuable Roadway Visualization Section, one could argue the use of 3D visualization of a robust civil model (not yet refined by a third party software like Photoshop and VRML) can aid Roadway Engineers in their design.

As outlined by the 2011 AASHTO "Green Book", chapter 2.2.9 Design Assessment;

*"Designers should consider how highway will fit into the existing landscape, how the highway should be signed, and the extent to which the information system will complement and augment the proposed design. The view of the road is very important, especially to the unfamiliar driver. Therefore, consideration should be given to the visual qualities of the road. This can be accomplished through the use of **3-D computer visualization programs**."*

As stated in chapter 3.2.6 Criteria for Measuring Sight Distance, Height of Driver's Eye, "For all calculations for passenger vehicles, the height of the driver's eye is considered to be 1.08 m (3.50 ft) above the road surface."

The default settings for the drive through should be the following.
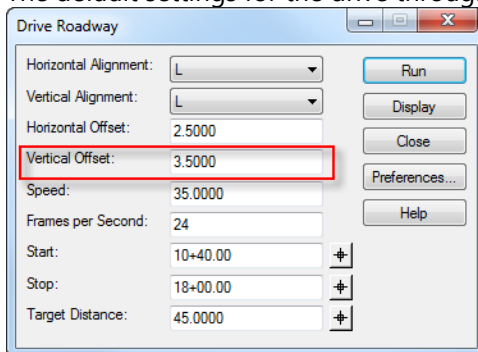
As stated in the Design Verification and Model Visualization Corridor Modeling Training Chapter, in addition to the drive through you can also do a "walk" and "fly" through to inspect your 3D model.
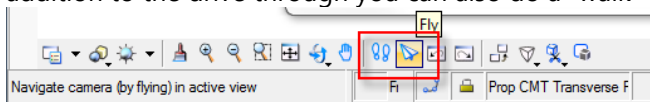
These are some of the design criteria we will consider moving forward concerning sight distance, clash detection, and design speed simulations in a 3D civil design environment.