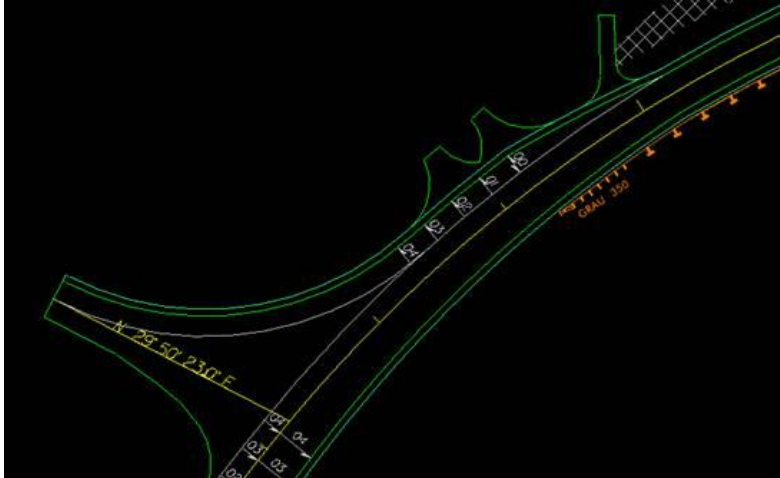## 8_3 RIGHT TURN LANE WITH BREAKING SUPERS

Question:

I have a bridge project with a right turn lane coming off the -L- line, and is breaking in the opposite direction of the super. How do I handle this in Corridor Modeling?

Answer:

Right turning lanes with breaking supers are just an extension of our at-grade intersection modeling concept.
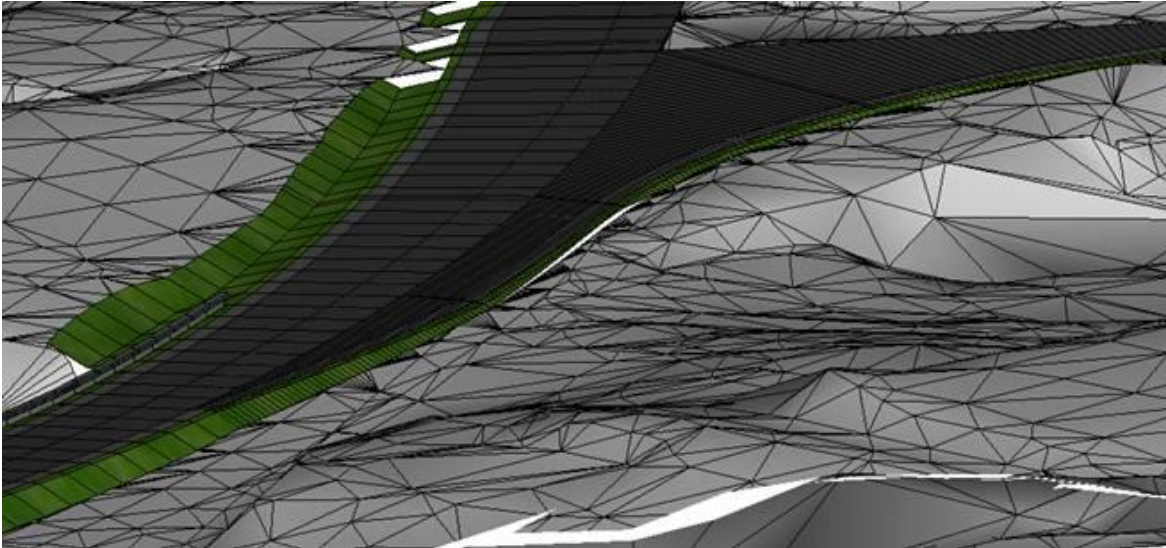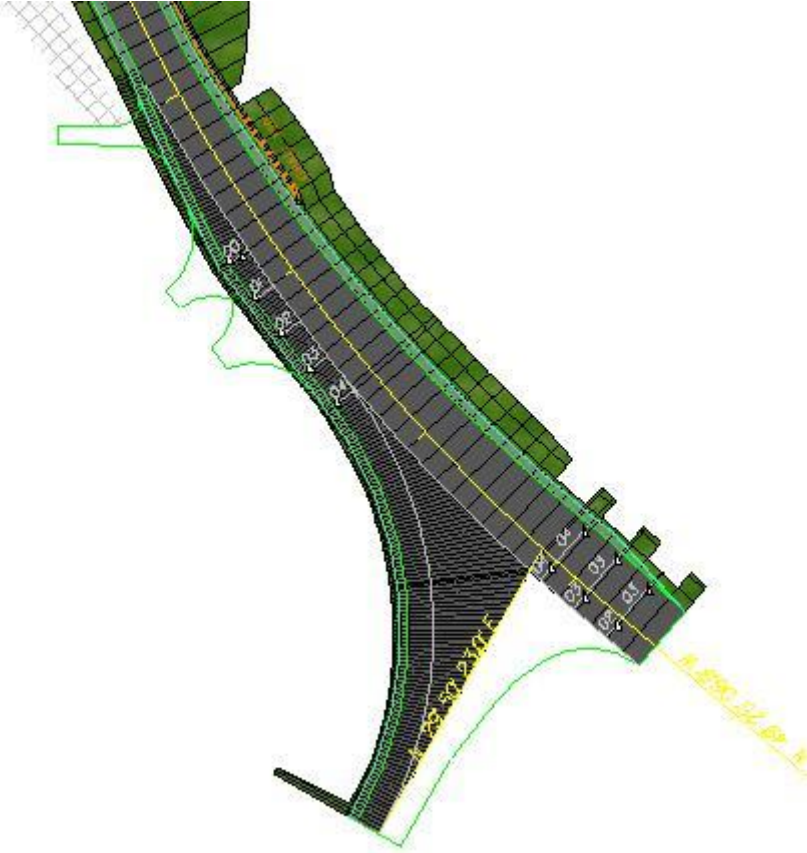
First create the proposed DTM for -L- using the lane line to shear off the template.
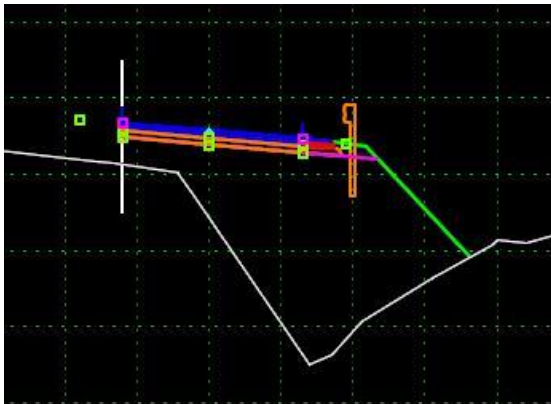
Create the proposed DTM for -Y1- also. The proposed DTMs are need in order to obtain the 3D location of the left EOT feature of -L- for the pavement point of the intersection template to join to in a later step. The proposed DTM can also help determine the beginning and ending elevation of the intersection quadrant grade (EOT).

Create a horizontal and vertical alignment for the turning lane and radius (using the EOT line work). In this case it is LY1_QA. Determine the key elevations for LY1_QA profile.

Create the intersection quadrant corridor and use point control to target the mainline –L- EOT 3D feature line work.

Create surface of the of the right turning lane and turning radius.

Combine the mainline -L- surface to complete the model.

Note the right side of the intersection can be model using the normal intersection template.