7_3 LATERAL DITCHES IN ROADWAY DESIGNER
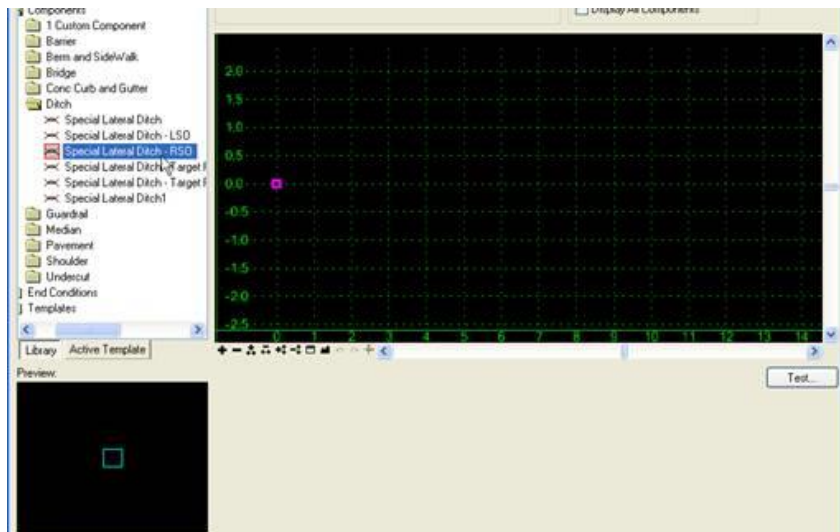
Question:
The special lateral ditch components are not displaying properly. Can you explain how lateral ditches are designed work?
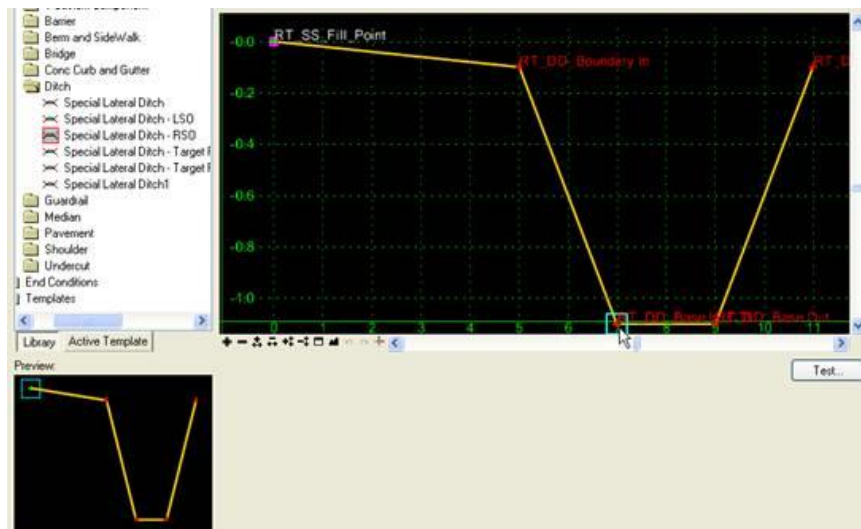
Answer:
You can practice on placing special lateral ditches by going through the online exercises, Chapter 8 - Lateral and Roadway Ditches

Non-feature targeting ditch components are turned off by default by a display rule.

When the ditch inside base point is moved below the zero elevation point, the whole ditch component is then displayed (or turned on).

When to use parametric constraints or point controls to move this particular inside ditch base point depends if a ditch grade is available from Hydro:
1. If Hydro has provided the ditch grades, then use Point Controls to move these ditch inside base points to the ditch grade. Note the "Vertical" only mode.

2. If ditch grades are not available, Point Controls in "Elevation and Grade" mode can be used.

Parametric Constraints can also be used for a typical 1' minimum depth ditch.

Lastly, for a full standard road template, multiple end conditions may exist from multiple origin points.
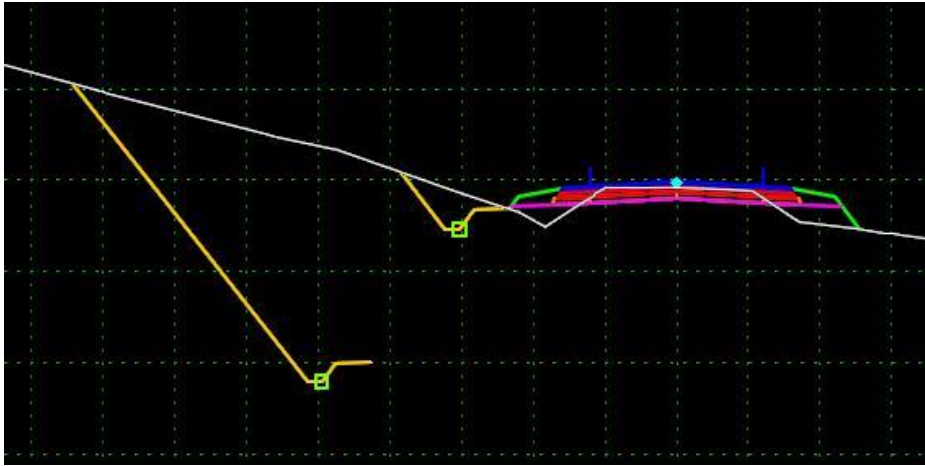
To display just the ditch component to a particular end condition branch (and turn off the other ditch components), a "parent-to-child" component rule must be applied for each end condition segment (fill slope). This type of modification is done at the template level.