

# Civil CAD CONSULTANT

## Express-TIP

### On the Side

**Q:** Do I need to use the Project to Surface constraint for points in my end conditions that are going to tie into my existing surface?

**A:** No. The end condition will tie in to the existing surface by virtue of its target and having **Check for Interception** and **Place Point at Interception** toggled on. The **Project to Surface** constraint can be very powerful, but it is unnecessary for the sideslope tie-in point.

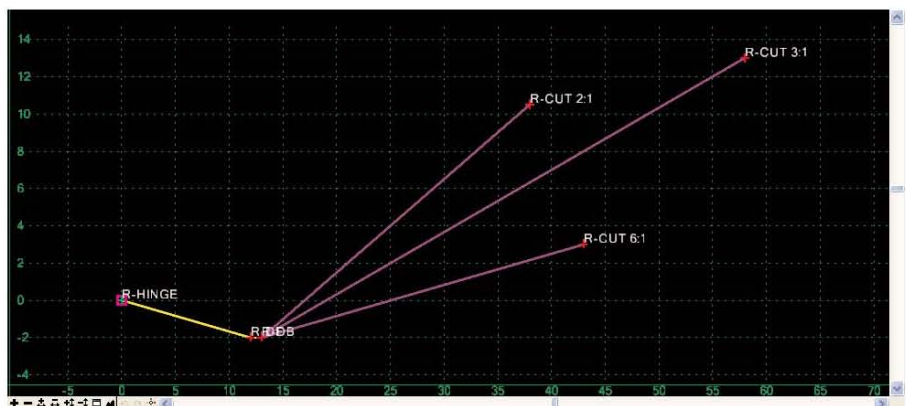
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### Efficient End Conditions

## Success without interception

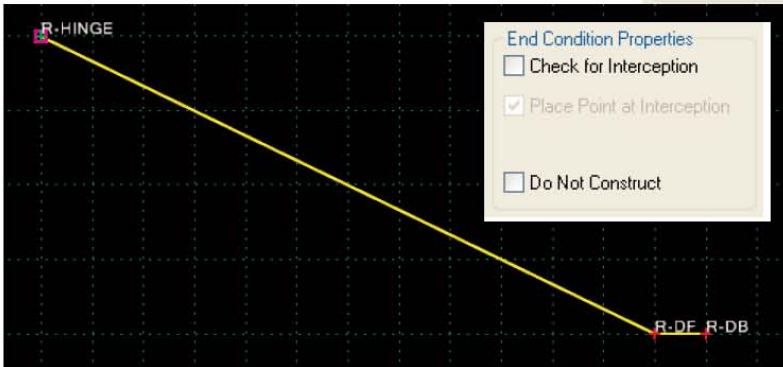
In many respects, **End Condition Components** work similar to **Target Blocks** from the Decision Tables of previous versions of InRoads. However, there are several differences, even beyond the fact End Conditions are created graphically rather than in a table.

One difference is that end conditions do not have to hit a target in order to be constructed, as long as they are part of a successful sideslope. This can be useful when multiple end conditions share a common beginning, such as a cut ditch having the same foreslope and bottom, but different backslopes. In order to accomplish this without having to repeat the foreslope and bottom for each backslope, use the following steps.



- 1 Create a new template.
- 2 Create a new End Condition component.  
Name the component.  
Assign an appropriate **Style**.  
Don't worry about the **Target**.

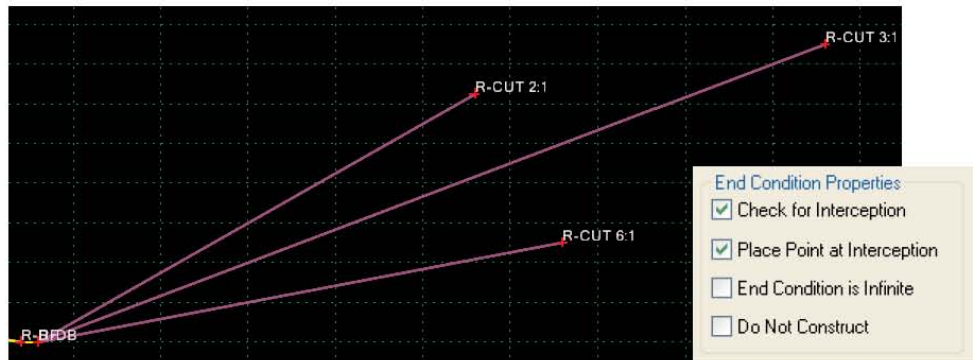
Current Component	
Name:	Ditch
Style:	CUT
Target Type:	Surface
Surface:	<Active>
Priority:	1
Benching Count:	0
From Datum:	0.000
Step Elevation:	0.000
Horizontal Offsets:	0.000
Vertical Offsets:	0.000
Rounding Length:	0.000



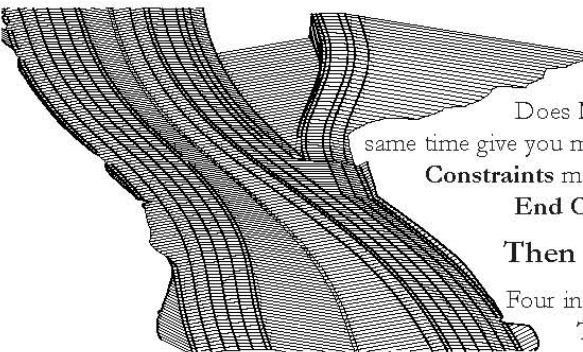
Create the desired foreslope and ditch bottom  
Make certain **Check for Interception** is toggled *off* for points in the end condition.

*Note: This is one of the main keys to ensuring this sideslope works. If either point has **Check for Interception** toggled on, the ditch will either not be fully formed if an interception is found, or not formed at all if an interception is not found.*

- 3 Create the backslopes as individual end condition components, each with **Check for Interception** toggled on as necessary.



## Getting the most from Templates and Roadway Designer



Feeling constrained by **Constraints**? Do **Display Rules** seem to overrule you? Does **Modeling** multiple corridors at the same time give you multiple migraines? Are **Parametric Constraints** making you cry for a paramedic? Are **End Conditions** a pain in your rear end? Then this is the seminar for you!  
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