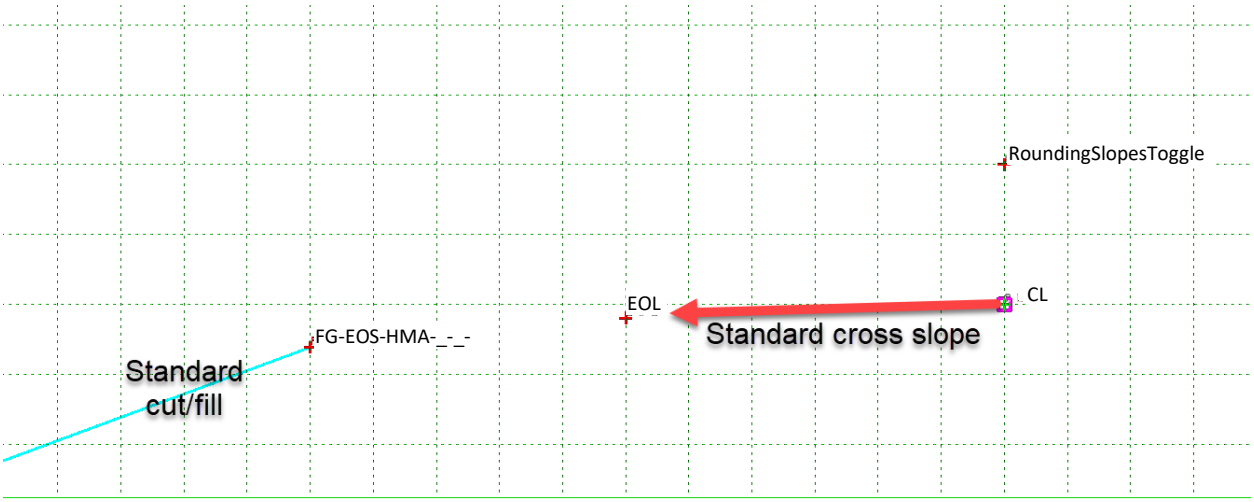
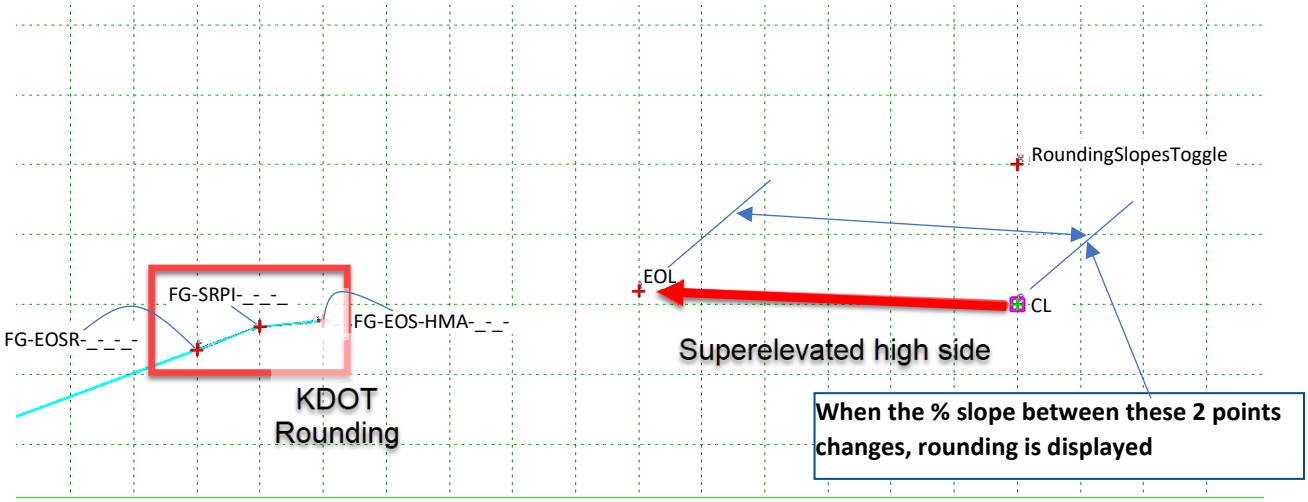
Kansas Department of Transportation

High Side Rounding Template Use

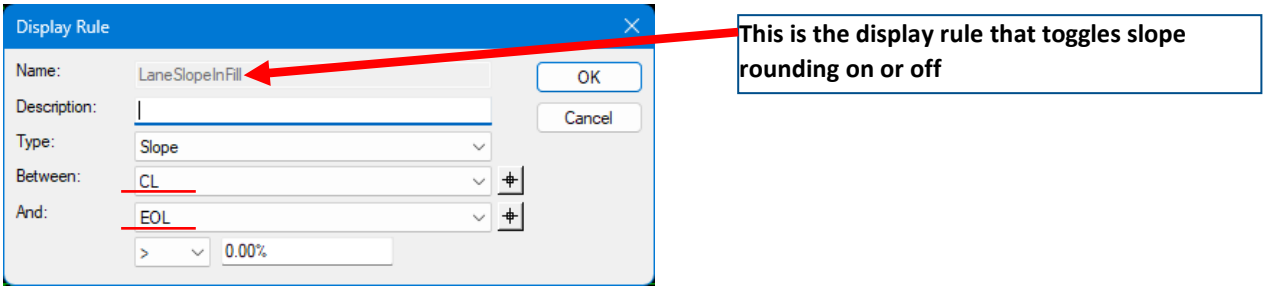
The High Side Rounding template is designed to work with Kansas Department of Transportation design criteria where an additional four feet of additional grading should be accounted for on the high side of a superelevated area. This criterion is subject to engineering design and other limitations, therefore, a switch has also been created to avoid the additional four feet from being included.

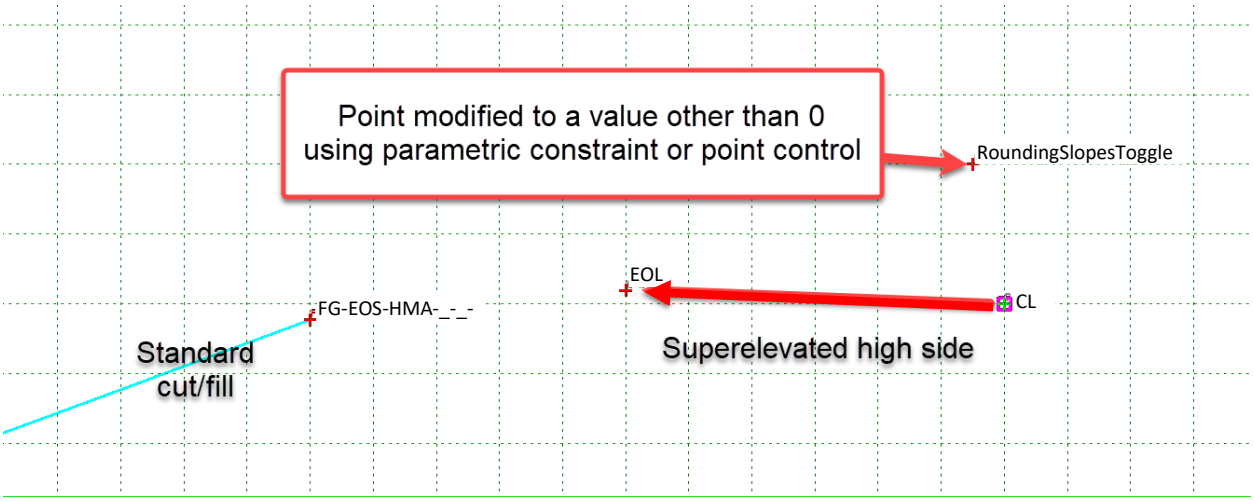


In a low-side, or normal crown, scenario, the standard cut/fill situation applies.



In a high-side scenario, the additional four feet are included in the cut/fill. OpenRoads Designer does not provide a smooth arc in the resulting corridor, so a PI has been utilized.





The point, **RoundingSlopesToggle**, is provided for the design situations where the additional four feet are not desired on the high side. This point can be manipulated using either a parametric constraint or point control. Any value not equal to zero will trigger the override.

Transitioning into and out high side rounding should be attained in the 75' of superelevation runout. This transitioning can be controlled using geometry and point controls, or a parametric constraint. The label to be used for the parametric constraint is "RoundingWidth".