

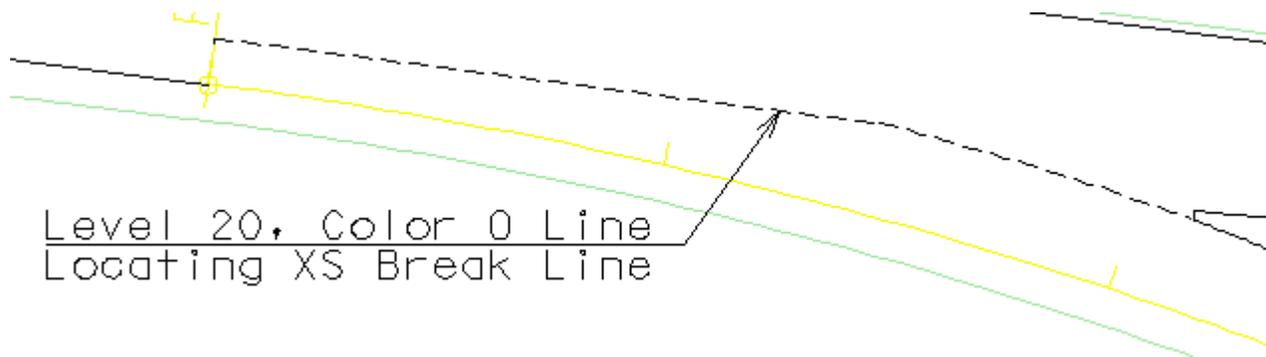
Ramp Transition Cross-Sections

Introduction

This document is a supplement to the Ramp Transition Exercise. It provides information on setting up the Proposed Cross-Section run one a chain and profile have been set of the edge of the portion of the ramp in transition.

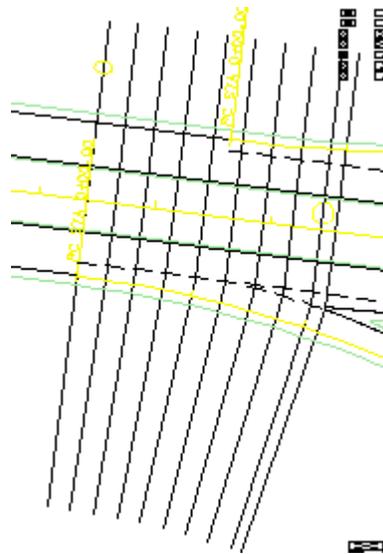
Plan View Geometry

Place a edge of pavement line in the plan drawing at the location of the break in slope between the main line and the ramp, as shown in the following figure.



Pattern Lines

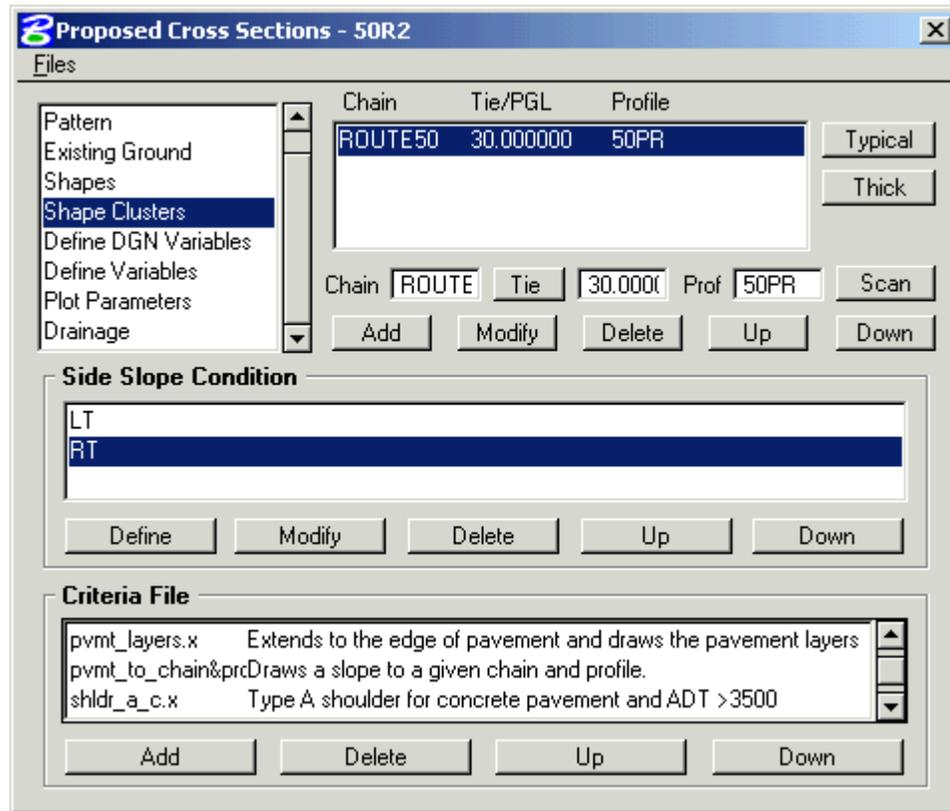
If bent pattern lines are used, the bend should be where the pattern line crosses the break line, as shown in the following figure. This conforms to MoDOT standard practice for showing these cross-sections and allows the cross-section to be perpendicular to both the mainline and to the ramp transition area. Typically the mainline and ramp have separate cross-sections after the nose of the ramp. The Matchline Exercise demonstrates how to create those cross-sections.



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Cross Section Run

In the Proposed Cross-Section run, create a Side Slope Condition for the area of the ramp transition. The list of Criteria Files will be normal except for the addition of the file `pvmt_to_chain&profile.x` after `pvmt_layers.x` and before the file to draw the shoulder on the outside of the ramp. This is pictured below



Under Define Variables, list the name of the appropriate EOP Profile and Chain, as shown below. The criteria will draw the pavement layers for the edge of the mainline edge of pavement to the specified chain and profile. The stationing of the profile may match eight the mainline stationing or the EOP Chain.

