

# Civil CAD CONSULTANT

## Express-TIP

### On the Side

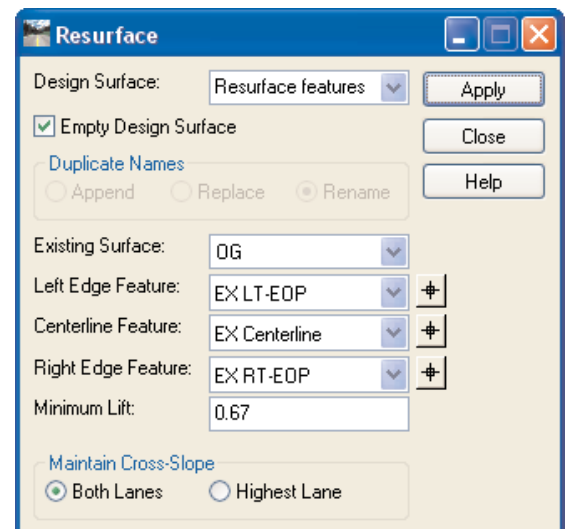
**Q:** What if I want to use the resurface command, but the existing edges are not continuous Features?

**A:** Each of the features need to be continuous for this command. You can use **Join Features** to make them continuous, or your can draw new edges with MicroStation and **Drape** them onto the existing surface for use as your edges.

### Resurface

## Clearing the high points

The **Resurface** command is useful when you need to define features for a resurfacing project that 'clear' the existing surface plus a minimum lift. Using the **Maintain Cross Slope — Both Lanes** toggle, the features are created so that when the existing cross slope on each side of the roadway is maintained, the new features form a surface that is the lift-height above the closest orthogonal point to the new surface. In order to use this command, you must have features for the existing centerline and pavement edges.



Resurface is an **Application Add-In** that must be toggled on prior to use.

- 1 Select **Tools > Application Add-Ins** and toggle **Resurface** on if you don't initially see it on your menu.

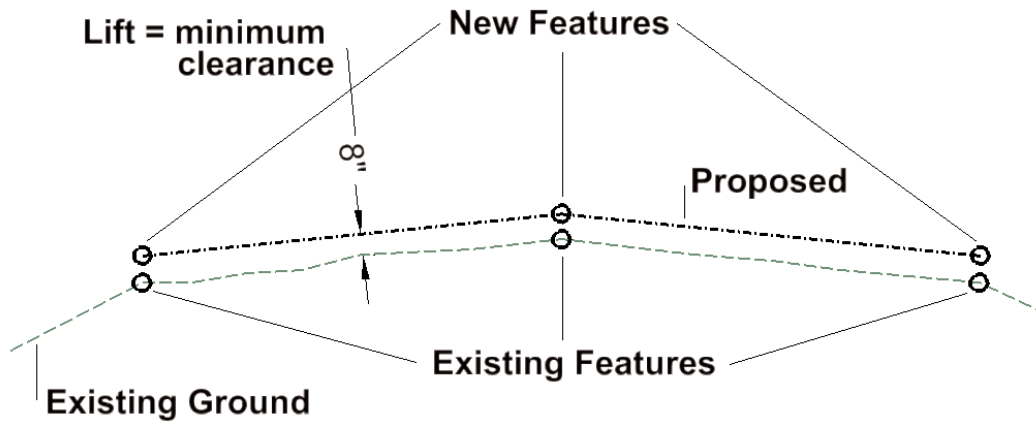
## 2 Select **Surface > Design Surface > Resurface.**


The **Design Surface** listed is the surface where you want the new features are to be created.

The **Existing Surface** must be where the current features for the Centerline, Left and Right Edge features are located.

Set the **Minimum Lift** desired.

3 Select **Apply** to create the new features. At each vertex of the centerline, the current cross slope is measured, the highest orthogonal distance from that cross slope is determine, and new features are added so that the same cross slope can be maintained along with a minimum clearance between the surface and new cross slope equal to the lift value.



Since there are no components added to the proposed surface using this command, the real value comes from using these new features as controls when creating a model using **Templates** and **Roadway Designer**. Stay tuned for more information in the next *Civil CAD Consultant Express-TIP*. 

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