

## 2009 ROADS AND BRIDGES CONFERENCE

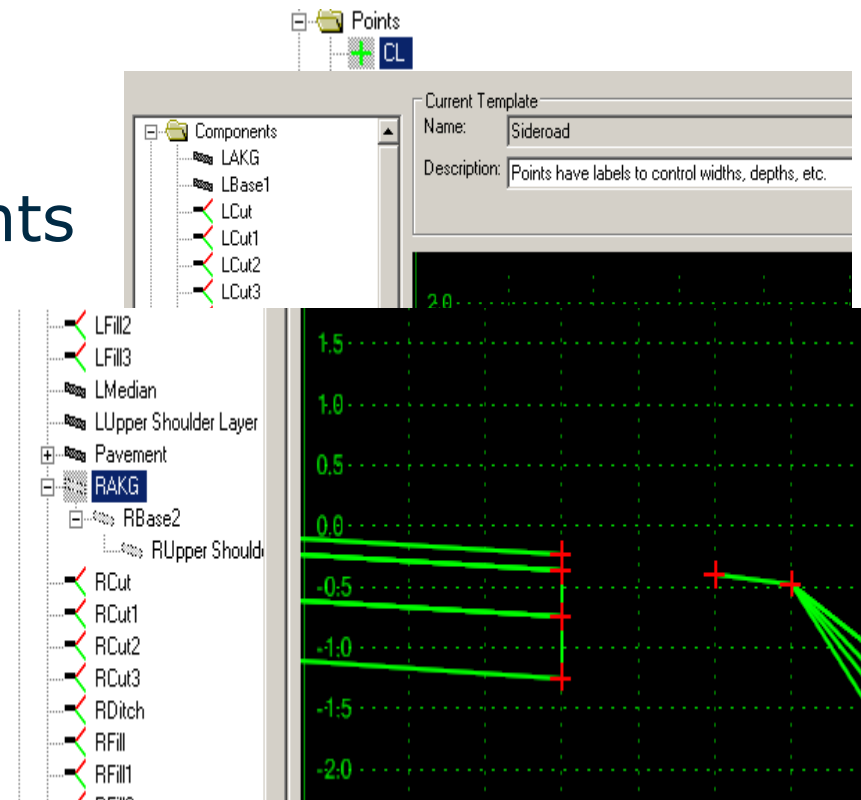


# Keeping it simple with Roadway Designer

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# Templates

- Icons for Components & EC's
- Point Colors
- Parent/Child Components
- Parametric Constraints
- Alternate Surface





# Parametrics Constraints

**Parametric Constraints**

Corridor: TH65

Constraint Label: wearing

Start Value: -0.17

Stop Value: -0.17

Station Limits: Start: 800+00.00, Stop: 837+00.00

Buttons: Add, Close, Change, Help

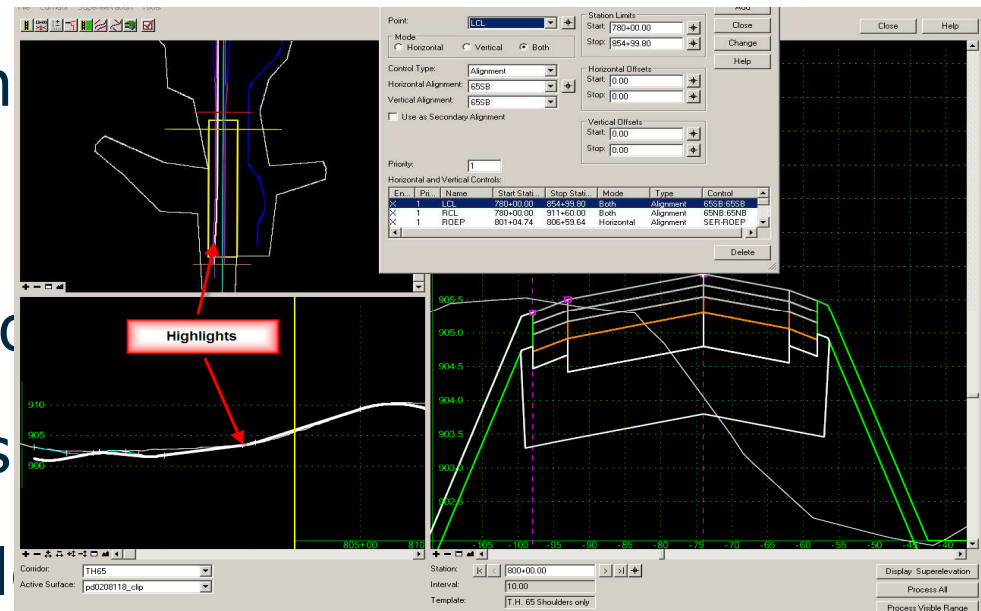
Name	Start Value	Stop Value	Start Station	Stop Station
wearing	-0.17	-0.17	800+00.00	837+00.00

Buttons: Export..., Import..., Delete

**Highlighted**

# Roadway Designer Enhancements

- Change Active Surface now stays at current station
- Parametric Constraint
- Point Control
- Display Superelevation
- Template Transitions
- Enhanced Super/Roll





# Point Control

The screenshot displays the Point Control interface in Bentley software. It features a main workspace with a grid and a detailed view of a road alignment. A red box labeled "Highlights" points to a specific area on the alignment. A dialog box is open, showing a table of alignment data and various control settings.

Ex. No.	Prj.	Name	Start Station	Stop Station	Mode	Control
1	LCL	LCL	780+00.00	854+99.80	Both	SSSB/SSSB
1	RCL	RCL	780+00.00	811+68.00	Both	SSSB/SSSB
1	RDEP	RDEP	801+04.74	806+53.84	Horizontal	SEH/DEP

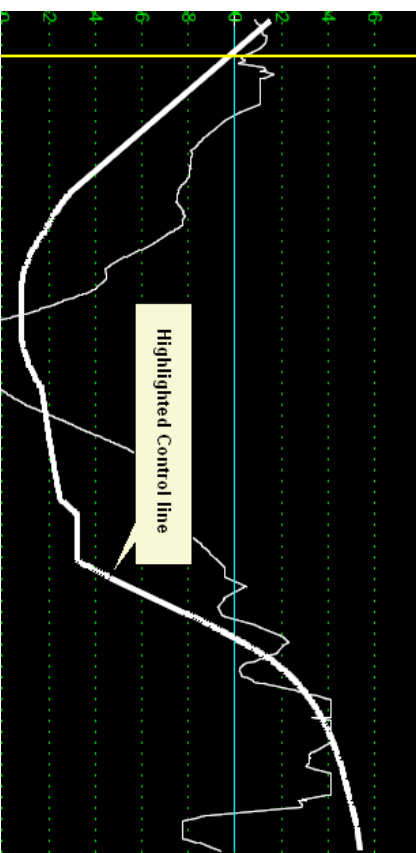
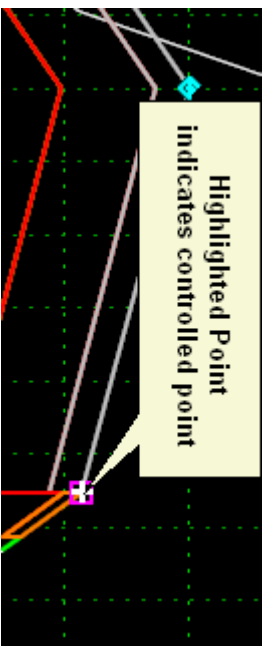
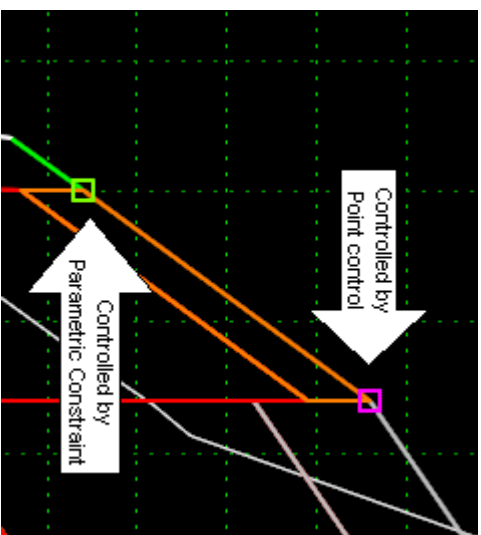
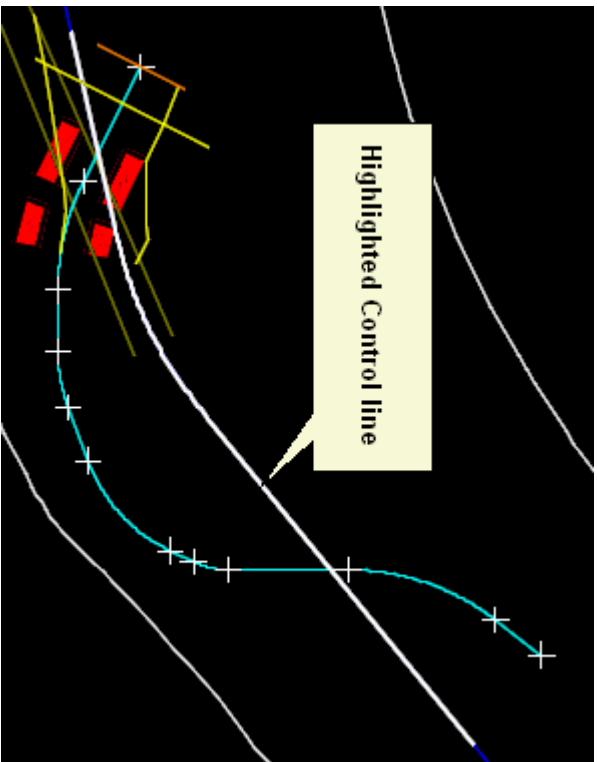
Control Settings:

- Point: LCL
- Mode:  Horizontal  Vertical  Both
- Station Limits: Start: 780+00.00, Stop: 854+99.80
- Control Type: Alignment
- Horizontal Alignment: SSSB
- Vertical Alignment: SSSB
- Horizontal Offsets: Start: 0.00, Stop: 0.00
- Vertical Offsets: Start: 0.00, Stop: 0.00
- Use as Secondary Alignment:
- Priority: 1

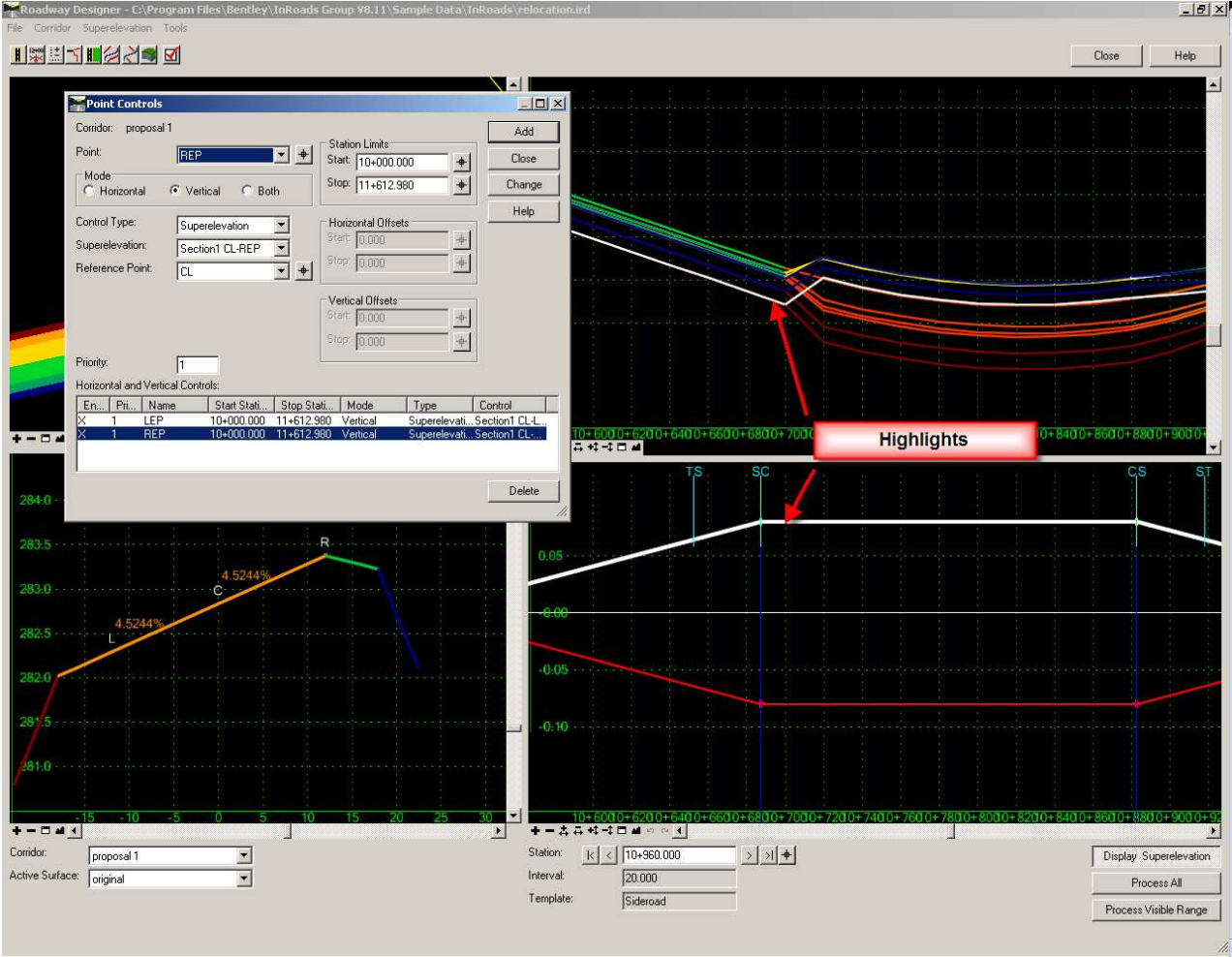
Workspace Labels:

- Condition: TH65
- Active Surface: pad0208118\_clip
- Station: 800+00.00
- Interval: 100.00
- Template: T.H. 65 Shoulders only
- Display: Super-elevation
- Process: All
- Process Visible Range

# Point Control

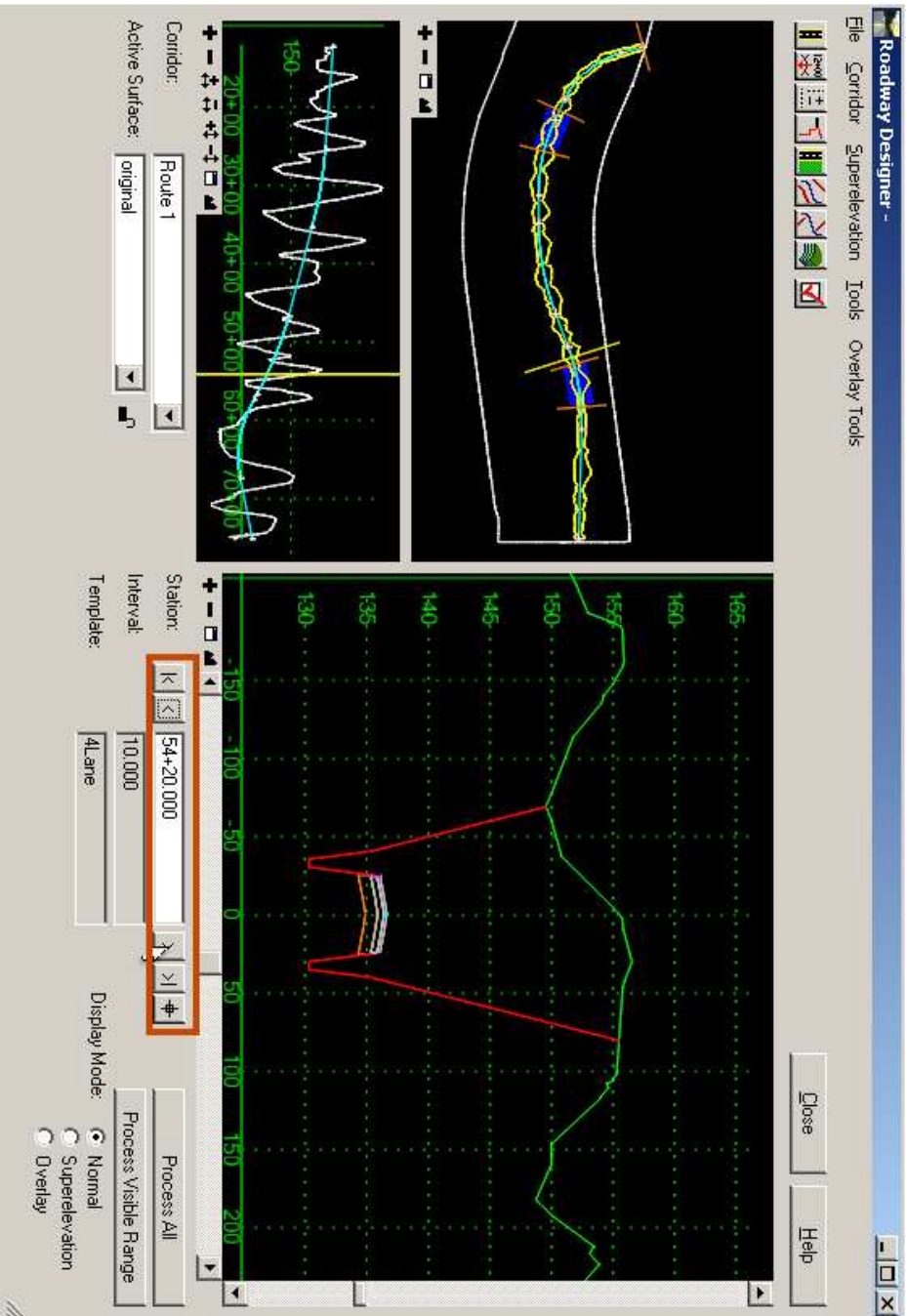


# Display Superelevation



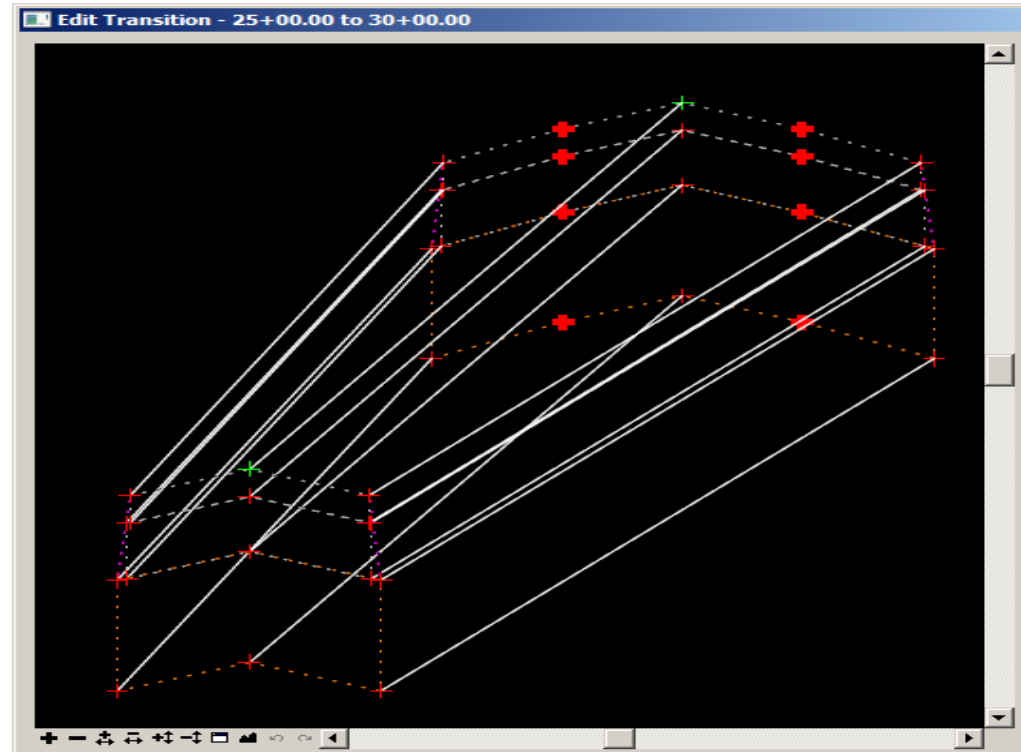


# Transitions



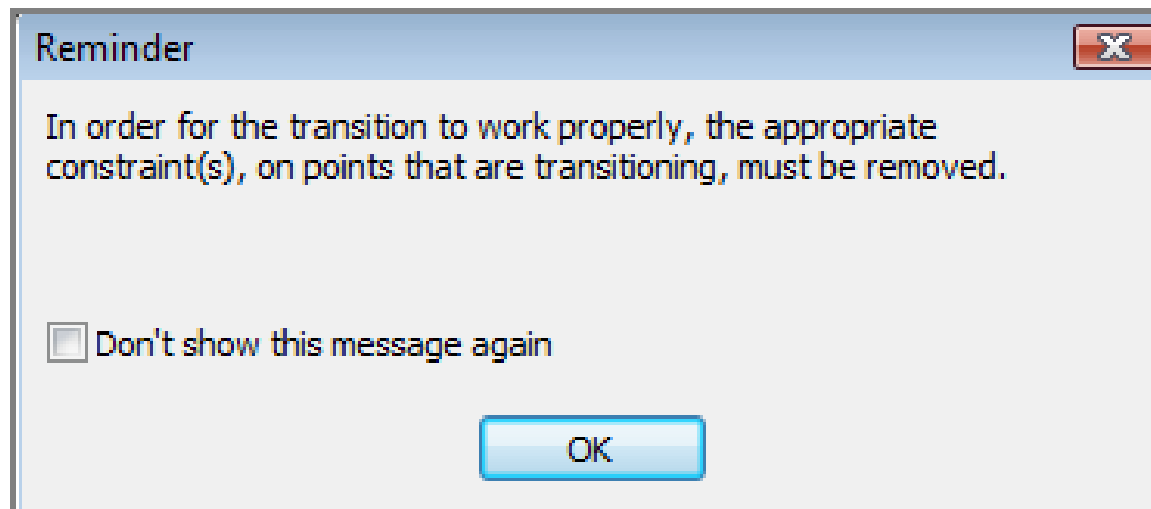
# Transitions

- Matching Points
- Adjust view to make it easier to match points

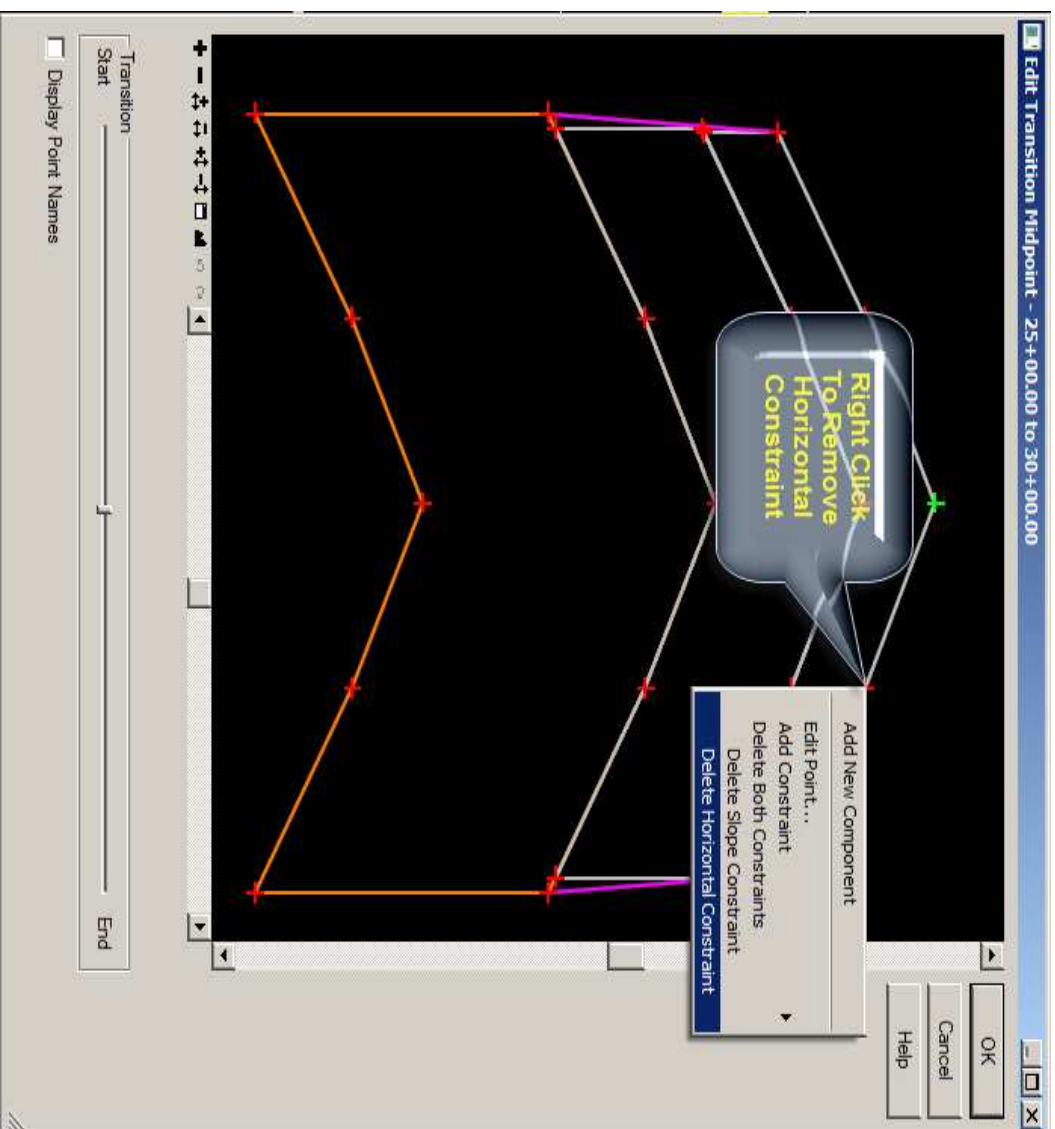


# Transitions

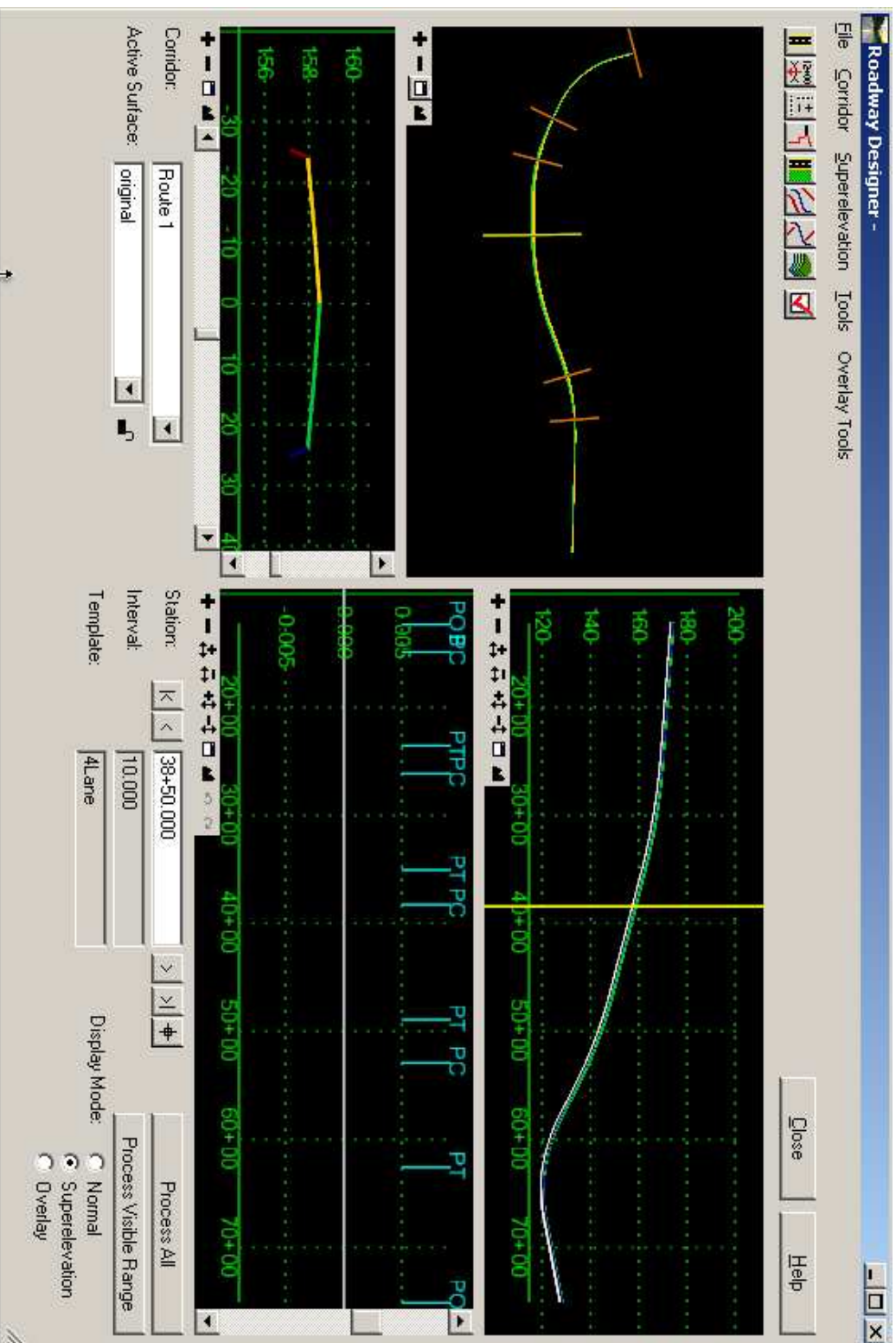
- Intelligent Transitions
  - Template Synch
  - Ability to Add Transitions to Copied Templates
  - Warning Dialog



# Transitions



# Superelevation





# Applying Superelevation

- using the Superelevation Wizard
- Import from .inp file

**Add Superelevation Section**

Name:

Crown Point:

Left Range Point:

Right Range Point:

Pivot Direction:

Limits

Station

Start:

Stop:

OK Cancel Help

**Import Superelevation from .INP file**

Section:

File:

Point	Offset	Pivot Point	Station	Cross Slope
L_EP_WC_Top	-12.0000	CLRD_WC_Top	12+34.00	-2.00%
R_EP_WC_Top	12.0000	CLRD_WC_Top	12+34.00	-2.00%

Apply Cancel Help