



Superelevation in the OpenRoads Environment

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Superelevation in the OpenRoads Environment

- This presentation teaches OpenRoads technology tools and capabilities that make superelevation work for you. Skills to be gained include creating super sections, lanes, calculating or importing super, editing and assigning to a corridor. This presentation is targeted for all intermediate Bentley civil users.

Learning Objectives

After this session you will be able:

- explain the difference between superelevation sections and lanes.
- identify the 3 methods of superelevation calculation.
- identify the 3 methods of modifying superelevation lanes.

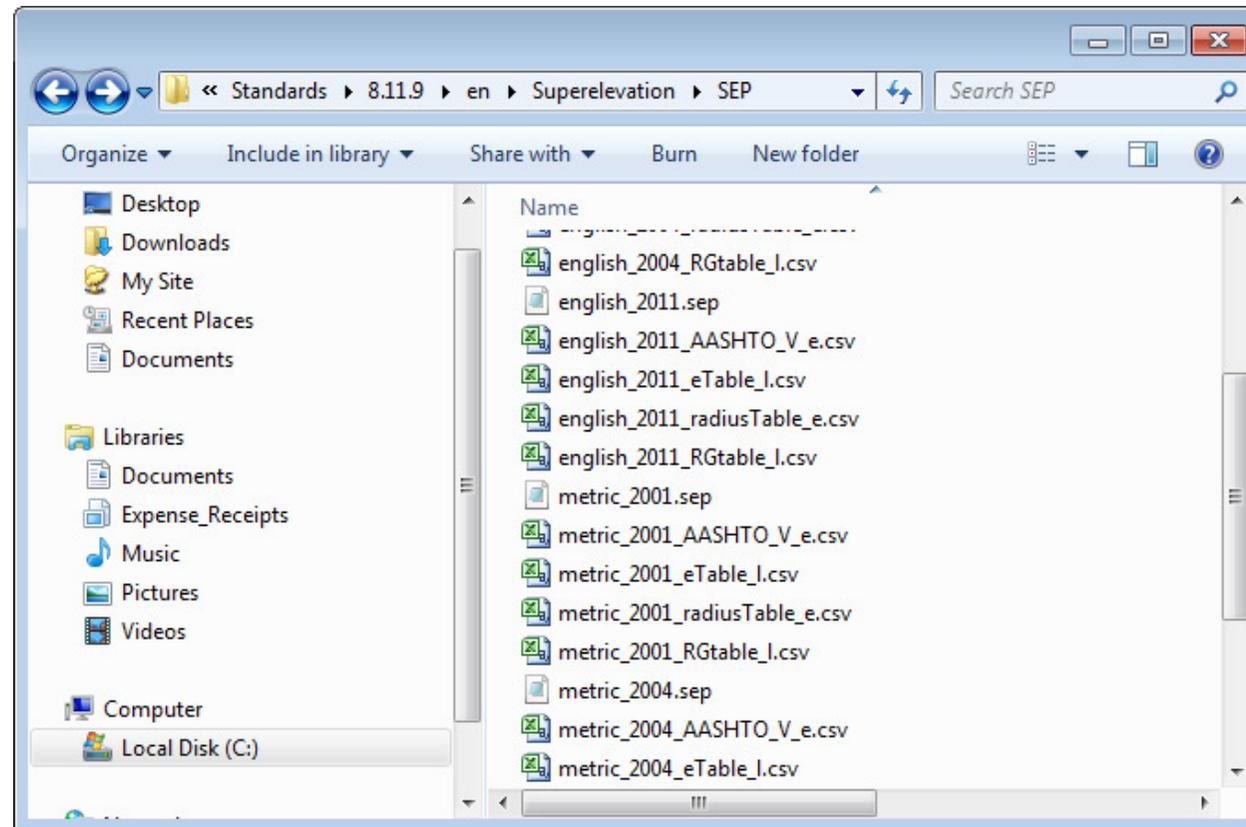
Set-up – Superelevation Calculations

- Utilize SEP or SRL files (preferences)
- Configuration variable points to directory for SEP / SRL
CIVIL_SUPERELEVATION_RULES_DIRECTORY
- SUP files are not supported.
- In lieu of calculations, importing superelevation from external program (CSV file)

Location of Settings Files in Install

C:\ProgramData\Bentley\Civil\Standards\8.11.9\en\Superelevation

- SRL
- SEP



Common Functionality of SEP / SRL

- Support Imperial / Metric
- Support station equations
- Supports linear / parabolic transition methods
- Resolves overlapping transitions
- Can be run by any product

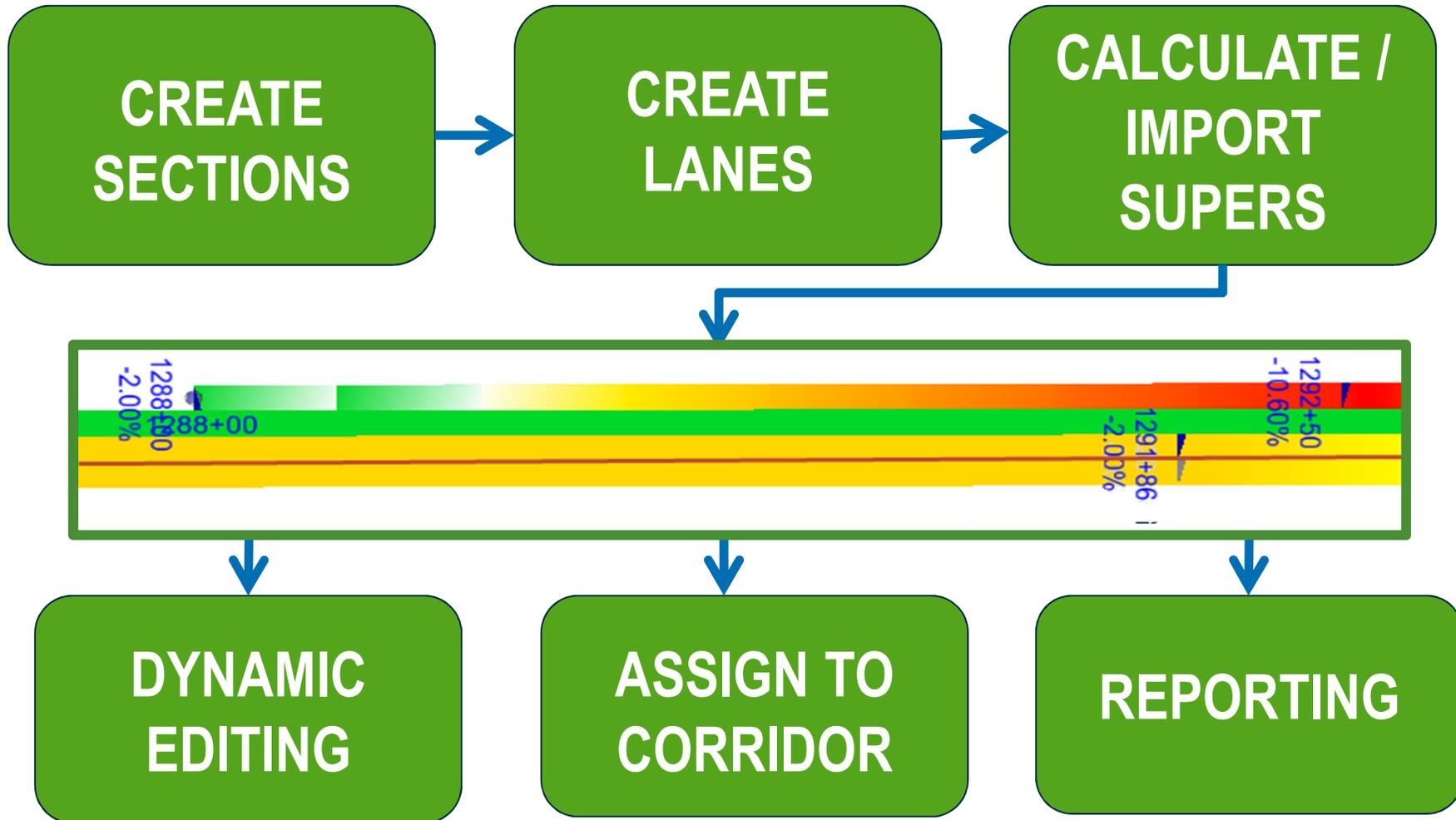
Comparison Chart for SEP / SRL

	SEP	SRL
Equations / Formulae	Basic formulae	Supported extensively
Multiple lanes w/ different default cross slope	Supported	Not supported
Half Lanes	Supported	Not supported
Nominal vs. Actual Lane Widths	Supported	Not supported
Adjustment Factors	Supported	Not supported
Axes of Rotation / Pivot Methods	Centerline/PGL	6 methods
Early Start Indicator	Not supported	Supported
Constraints	Not supported	Supported

How to Get Started

- Gather current standards for super calculations.
- Determine current SEP / SRL files.
- Find most knowledgeable person on super standards, not necessarily a Civil software user.
- Review comparison chart to determine what's needed.
- Using the Excel spreadsheet / preferences doc, determine settings.
- Set-up and test. (requires Civil software user).

Workflow





Demo

Learning Paths: Ready-Made Training Plans

Choose from:

- Bentley recommendations
- Configure your own
 - Organizational
 - Personal

Select:

- Product(s) and version(s)
- Language
- Training type

Enroll team members in:

- One learning path
- Multiple learning paths

Personalize Learning Path

Use this form to personalize a Learning Path. You can enable/disable specific course offerings by expanding the "Find Training" tab, and even add new course blocks into your Learning Path. Click the Help icon for more detailed instructions and a Step-By-Step guide.

Name* Peter's custom lp
Description*

Learning Path Type Personal Learning Path Set as Company Learning Path

Courses

MicroStation Essentials III
MicroStation Essentials is designed for the new MicroStation user and builds a solid foundation in the concepts, tools and features found in the MicroStation drawing environment. Starting with setting... [More](#)

Find Training (14)

Live	Title	Lang
<input type="checkbox"/>	MicroStation Essentials	Engl
<input type="checkbox"/>	MicroStation Essentials Basics	Engl
<input type="checkbox"/>	MicroStation Essentials Express	Engl
<input type="checkbox"/>	MicroStation Essentials	Engl
<input type="checkbox"/>	MicroStation for AutoCAD Users	Engl
<input type="checkbox"/>	MicroStation for AutoCAD Users Express	Engl
<input type="checkbox"/>	MicroStation for Mining and Metal Extraction	Engl
<input type="checkbox"/>	MicroStation for AutoCAD Users Express	Engl

On-Demand

Title	Language	Gene
<input type="checkbox"/>	MicroStation Essentials Lecture Series	English VBI
<input type="checkbox"/>	MicroStation Quick Start Guide	English VBI
<input type="checkbox"/>	MicroStation Essentials	English VBI
<input type="checkbox"/>	MicroStation for AutoCAD Users	English VBI
<input type="checkbox"/>	MicroStation for Mining and Metal Extraction	English VBI
<input type="checkbox"/>	MicroStation Essentials	English VBI

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Name* MicroStation Technician in a Roadway Setting
Description* 2 year onboarding program. 72 LUs. Multi-product MS, PW, InterPlot, InRoads. Live and on-demand self-study.

Learning Path Type Personal Learning Path Set as Company Learning Path

Manage Master Course List

ProjectWise User Essentials III
This course is for individuals who need to manage documents throughout a project cycle and work in the ProjectWise managed environment. It presents techniques for working in the integrated environment... [More](#)

LUs:

Find Training (10)

Live	Title	Language	Generation	Release Label	LUs
<input type="checkbox"/>	ProjectWise User Essentials	English	VBI	SELECTseries 2	8
<input type="checkbox"/>	ProjectWise User Essentials	English	VBI	SELECTseries 3	8
<input type="checkbox"/>	ProjectWise Client Start Up Guide	English	VBI	Base Release	4
<input type="checkbox"/>	ProjectWise User Essentials	English	VBI	Base Release	8

Displaying items 1 - 4 of 4

On-Demand	Title	Language	Generation	Release Label	LUs	Type
<input type="checkbox"/>	Design Management Studio	English	VBI	Base Release	1	OnDemand eLearning: Lecture
<input type="checkbox"/>	ProjectWise User Essentials	English	VBI	SELECTseries 2	8	OnDemand eLearning: Hands-on
<input type="checkbox"/>	ProjectWise User Essentials	English	VBI	SELECTseries 3	8	OnDemand eLearning: Hands-on
<input type="checkbox"/>	ProjectWise Client Start Up Guide	English	VBI	Base Release	4	OnDemand eLearning: Hands-on
<input type="checkbox"/>	ProjectWise User Essentials	English	VBI	Base Release	8	OnDemand eLearning: Hands-on
<input type="checkbox"/>	ProjectWise User Essentials	English	VBI	Base Release	5	OnDemand eLearning: Hands-on

Displaying items 1 - 6 of 6

[ADD MORE](#)

MicroStation Essentials III
MicroStation Essentials is designed for the new MicroStation user and builds a solid foundation in the concepts, tools and features found in the MicroStation drawing environment. Starting with setting... [More](#)

LUs:

This Session's Learning Path:

Here's the name and link to a short learning path that includes this session and recommended modules that you may share with your colleagues:

V8i (SELECTseries 3) OpenRoads Technology Learning Path

<http://learn.bentley.com/app/Public/ViewLearningPathDetails?lpld=104292#.UYkxZxK2r9s.email>

<enter PPT title>

Thank you!