

Going Digital with BIM and Bentley

OpenRoads Designer

Welcome to the OpenRoads Designer product tour guide.

This ebook provides a look at how OpenRoads Designer software supports the evolving BIM requirements and helps you connect the data, people, workflows, and ideas necessary to support today's infrastructure projects.



The ebook also includes links to more than 20 videos that illustrate how the software addresses your critical business issues, such as collaborating across disciplines, ensuring engineered design intent, and improving the deliverables required for each project.

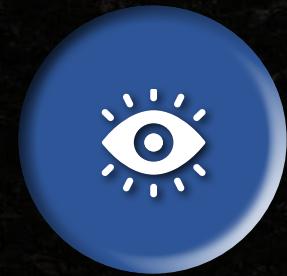
If you have questions, or need more information, please visit
www.bentley.com/OpenRoads or call 1 800 236 8539.

Solve Your Critical Business Issues

OpenRoads Designer CONNECT Edition was built with your critical business issues in mind. It's a single application that includes a broad set of capabilities to meet your design and engineering requirements.

With workflows and toolsets, you can rapidly model design intent, edit dynamically, ensure standards, work in all disciplines, and continuously model as you design your project. Work in one composite model to provide a wide range of project deliverables.

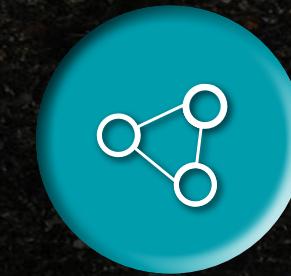
EXPLORE MORE



REALITY MODELING



DESIGN INTENT



MULTIPLE DISCIPLINES



ADAPT TO CHANGE



DELIVERABLES

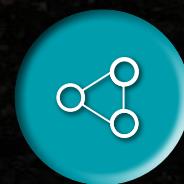
With OpenRoads Designer CONNECT Edition, you can:



Incorporate real-world conditions into your virtual design environment for better decision making.



Create intelligent models with relationships and associations between civil elements to ensure design intent.



Integrate design data from multiple disciplines to improve collaboration, accuracy, and efficiency.



Use a federated model to dynamically update edits throughout the project workflow to easily adapt to change.



Produce project deliverables, such as machine control guidance, models, and other data needed for today's requirements.





Design in Reality Context

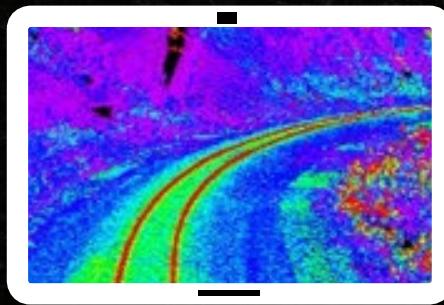
OpenRoads Designer helps you effectively understand existing conditions. You can incorporate, analyze, and manipulate a wide range of data such as point clouds, reality meshes, photogrammetry, terrain, and more. Quickly produce 3D models using “field collected” project information to enhance design decisions.



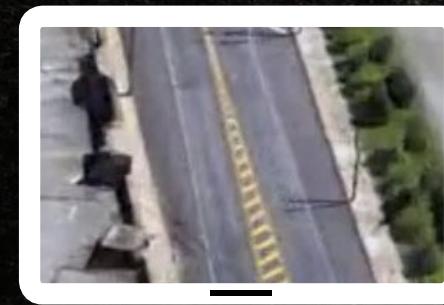
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Your model will help you to better understand site and existing conditions throughout the planning, design, construction, and operation of your infrastructure asset.

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Point Clouds



Reality Meshes



Raster Imagery



Terrain Models



Model Your Design Intent

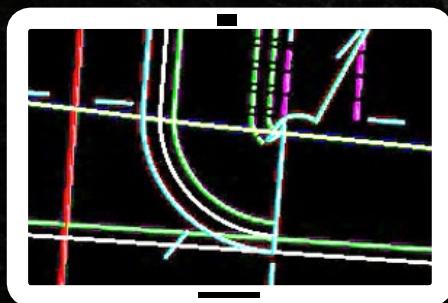
Model with design intent as OpenRoads Designer offers new and innovative technology that captures, stores, and maintains how each design element is created. As a result, design associations and relationships between civil elements ensure the design always reflects engineering intent.



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The application allows you to design while you model using innovative technology such as civil cells, interactive modeling, dynamic relationships, and relational intelligence.

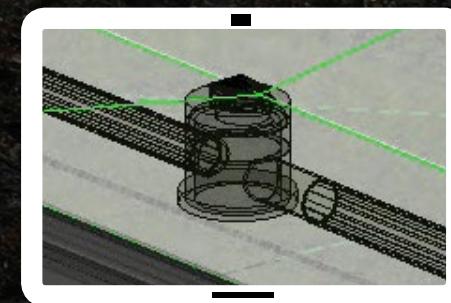
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Civil Cells



Alignments



Drainage



Corridors



Integrate Multiple Disciplines

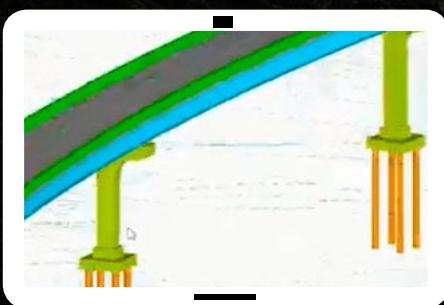
OpenRoads Designer allows you to see and use everyone else's data within the confines of your own application. This true integration helps you analyze, model, and report on all the data within a singular model.



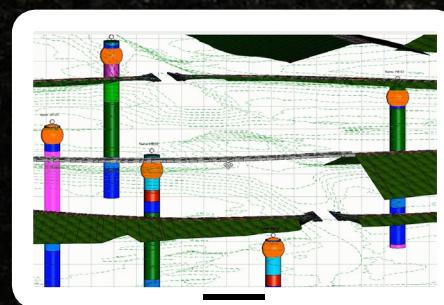
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Regardless of whether you're modeling roads, roundabouts, bridges, or ponds, use the same technology to create an integrated project model. Combine 3D project data from any source to make better engineering decisions and reduce risk by minimizing errors and omissions prior to construction.

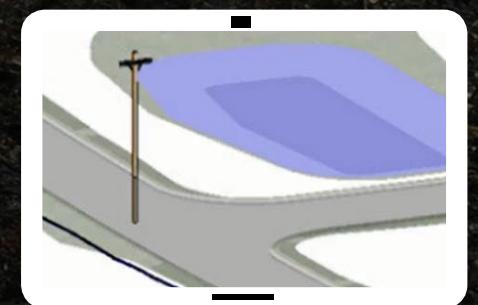
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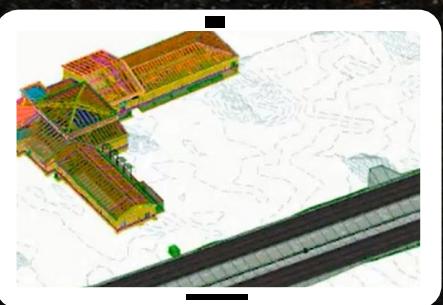
Bridges



Geotechnical



Utilities



Buildings



Adapt to Change

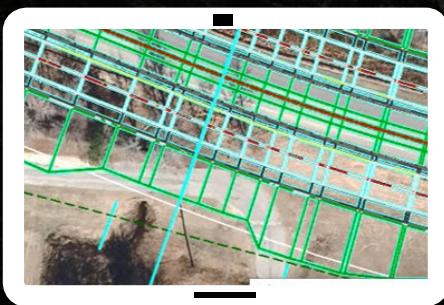
Change is a constant in the design and production world, that's why OpenRoads Designer was built to help you manage all your design changes.

When you make modifications in the design, all edits are dynamically updated throughout the model. Plus you can create a dynamic and interactive design model that is consistent throughout the project and workflows, thereby maximizing its value.

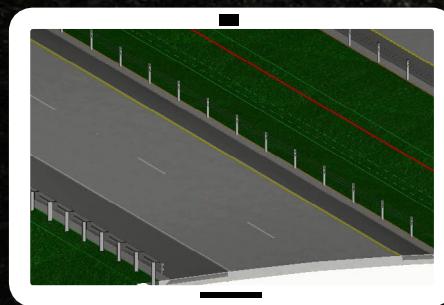


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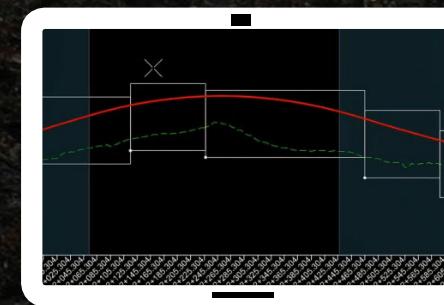
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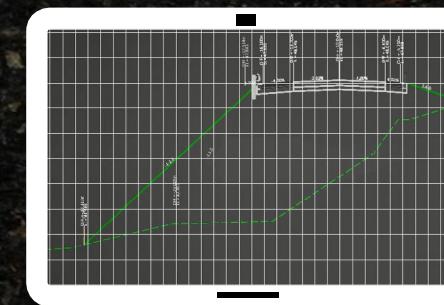
Alignment



Safety Measures



Design Changes



Construction Documents



Improve Project Deliverables

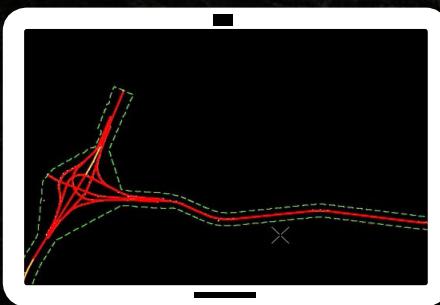


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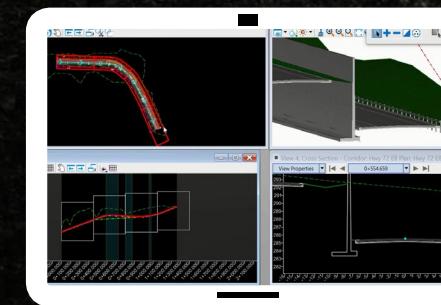
Construction drawings are no longer the only expected deliverable. Engineers and designers are now required to provide additional data such as automated machine control guidance, 3D models, and other digital information. OpenRoads Designer improves project deliverables by broadening the construction documentation and data that you can produce to meet project requirements.

Using design constraints, design-time visualization, dynamic annotation, and automated plan production based on the live model, you are assured that all project information is consistent and up to date.

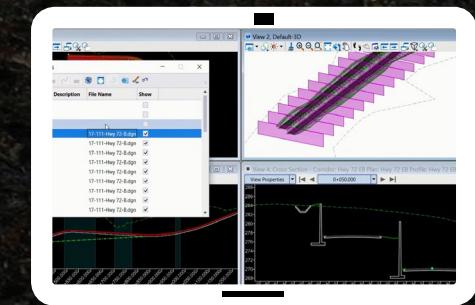
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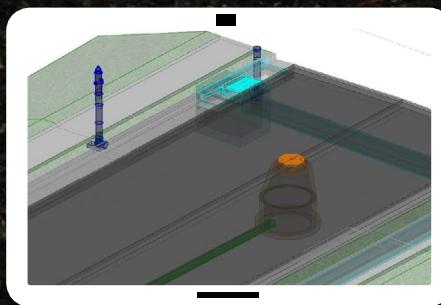
Engineered Model



Plans & Profiles



Cross Sections



BIM

OpenRoads Designer

FROM CONCEPTION THROUGH CONSTRUCTION

OpenRoads Designer was built to solve your critical business issues so you can meet the requirements needed for your civil engineering projects.

This single application supports all aspects of a detailed roadway design including survey, geotechnical, drainage, subsurface utilities, earthwork, plan production, and more.

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Advanced Educare Training Private Limited
Plot No-6, Office No-204, Arrow Corporate Tower, Sec-14,
Kaushambi, Ghaziabad, India-201010
Call : 08071265117

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