



**Bentley** Sustaining Infrastructure

## UPGRADING WITHIN THE BENTLEY® INROADS® FAMILY Moving from InRoads Site® to InRoads Suite V8i®

Bentley InRoads Site is now upgradeable to Bentley InRoads Suite V8i, Bentley's integrated, cohesive solution for road design and site modeling. Combining the best in road, site, survey, and drainage functionality, InRoads Suite V8i runs on MicroStation (DGN) or AutoCAD (DWG), moving project data seamlessly between CAD platforms with no need for translation. Most importantly, InRoads Suite includes Bentley's powerful Roadway Designer for 3D modeling and support of Machine Control for construction.

Roadway Designer represents the most advanced 3D modeling capabilities available in civil engineering, providing interactive 3D design using constraint-driven typical sections with intelligent components. As a civil engineer or designer, *you* control the entire modeling process—visually, graphically, interactively, and dynamically. Streamlined and intuitive, you don't have to be a software programmer to run Roadway Designer, nor do you require a programmer to create constraints, components, or sections. Be empowered and make your concept a reality!

*From field-to-finish—InRoads Suite V8i—the right tools  
for complex, multidiscipline design scenarios*

### Streamlined Site Functionality

InRoads Suite robust site design tools enable site engineers to design and construct building sites, landfills, and embankments as well as excavate and perform site remediation. Site tools feature comprehensive design, analysis, plan production, and reporting capabilities on MicroStation or AutoCAD. Use flexible coordinate geometry tools and a feature-based digital terrain model to interactively create and edit site features with on-the-spot, onscreen verification.

### Comprehensive Survey Tools

InRoads Suite survey tools enable you to process raw survey data to your CAD environment of choice, MicroStation or AutoCAD. Eliminate field-to-office waits. Survey teams can verify data on-the-spot and in the field. Make the most of preferred workflows to capture feature-based survey data and attributes, and automatically annotate each feature in your design file. Then apply industry standard methodologies to produce plot-ready graphics from electronic field book (EFB) and global positioning system (GPS) data.

**InRoads Site**  
Site Design  
Geometry  
DTM



**InRoads Suite**  
Site Design  
Geometry  
DTM  
Survey  
Drainage  
Road/Site Design

### The InRoads Suite Advantage

- Design roads and corridors dynamically with Roadway Designer
- Employ full road and site design capabilities
- 3D modeling
- Fully integrated civil engineering for:
  - Road and site design
  - Design/construction
  - Storm and sanitary design/analysis
  - Bridge geometry
  - Comprehensive quantity management
- Interface to Machine Control

For a limited time, Bentley Civil upgrades include a **subscription of SELECT**, Bentley's premier service contract that provides flexible licensing options and unparalleled support!

## Intelligent Storm and Sanitary Networks

InRoads Suite drainage tools enable you to intuitively design, analyze, and manage your storm and sanitary networks on MicroStation or AutoCAD. Use industry standard techniques to create new or expand existing drainage networks in a full 3D environment.

## Multi-Function Road Design

From field to design to construction—for road design, corridor modeling, road widening, road resurfacing, landfill design, and building site design—InRoads multi-function, interactive design tools are tailored to the specific requirements of the civil engineering community. InRoads features advanced DTM functionality as well as comprehensive design, analysis, plans production, and reporting capabilities for the world's most popular CAD formats.

## NEW FUNCTIONALITY WITH INROADS SUITE V8i

***Upgrading to InRoads Suite V8i offers more tools and functionality to better streamline your workflows and help you work faster and smarter than ever before!***

### Import

- LiDAR import (LAS and ASCII)

### Survey

- Survey data reduction
- Custom survey data import
- Dynamic survey data editing
- Survey adjustments
- Survey data to drainage

### Geometry Design

- Horizontal and vertical element tools
- Horizontal and vertical regression

### Design Evaluation

- Site visibility tools
- Road visibility tools
- Mass haul diagrams
- Drive virtual roadway

### Volumes

- Triangle or prismatic volumes by station

### Drainage

- 3D interactive model creation
- Hydraulic design and analysis
- Hydrologic analysis
- Dynamic plan and profile editing
- Network report
- Automated drawing production
- View network in plan, profile, or cross section

### Roadway Designer Typical Sections

- Graphically created
- Parametric constraints
- Component driven
- Assemble components into sections
- Associative relationships
- Interactive testing

### **Roadway Designer 3D Modeling**

- Horizontal and vertical controls
- Dynamic, step, or batch modeling
- Visual highlights of problem areas
- Dynamic volumes
- Virtual command editing
- Transition control
- 4-port viewing, plan, profile, cross section, and superelevation

## **EXISTING INROADS SITE FUNCTIONALITY**

*The excellent tools and functionality provided in your current InRoads Site include:*

### **Data Interoperability**

- Seamless integration between CAD platforms in both DGN and DWG environments

### **Centralized Data Model**

- Single data source for all modules within the InRoads family of products

### **Extensive Geometry**

- Interactive graphical coordinate geometry

### **Feature Based DTM**

- Flexible, double-precision
- Intelligent features
- Representation and labeling based on the feature definition

### **DTM Analysis**

- Key features analysis with intuitive terrain modeling tools

### **Feature Editing**

- Surface-feature editing from within the plan, profile, or cross section
- Automated commands for updating plans, sections, or profiles

### **Site Design Tools**

- Environmental reclamation
- Levees, ponds
- Commercial and industrial sites

### **Volume Computations**

### **Production Tools**

- Drafting and plan preparation tools
- Plan and profile generation
- Automated cross section plotting

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For more information on Bentley Civil Suite deals,  
call 1-800-BENTLEY or [request a Sales Representative contact you.](#)