

HighRoad

advanced road design software



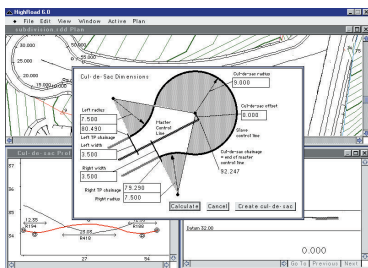


HighRoad

advanced road design software

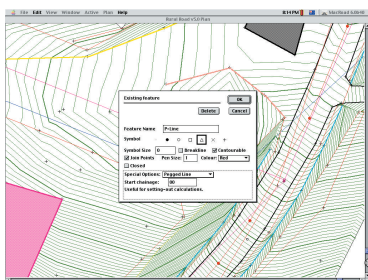
The easy way to design roads

Design roads as you always have – **graphically**. HighRoad – Creative Engineering’s advanced road design software – uses a fully integrated graphical interface tailored for engineers. Its **highly intuitive design** means you can pick up HighRoad immediately without being a computer expert or learning complicated commands. HighRoad’s interface combined with its built-in intelligence results in fast and interactive road design that produces results quickly.

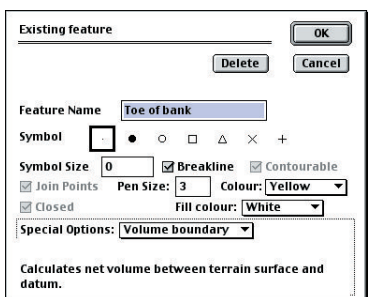


Tailored graphical interface

Developed by a **road design engineer for road designers**, HighRoad uses familiar civil engineering terms, tools and graphics. Instead of using groups of lines to construct roads on screen, you design with intelligent objects such as kerbs, cross sections, pavements and batter slopes.



Creative Engineering has tailored HighRoad to the way a road designer works – both graphically with long sections, cross sections and plans, and numerically for precise matching of design specifications. This flexibility is possible due to the **immense development** invested into getting the interface just right for its users.



HighRoad has **been designed from the start with a graphical user interface**. This interface design is fully integrated into its architecture, making HighRoad fast and compact. You can also expect consistency with the same techniques in different views within HighRoad, and consistency between reality and the road model that HighRoad lets you create.

Maximise productivity

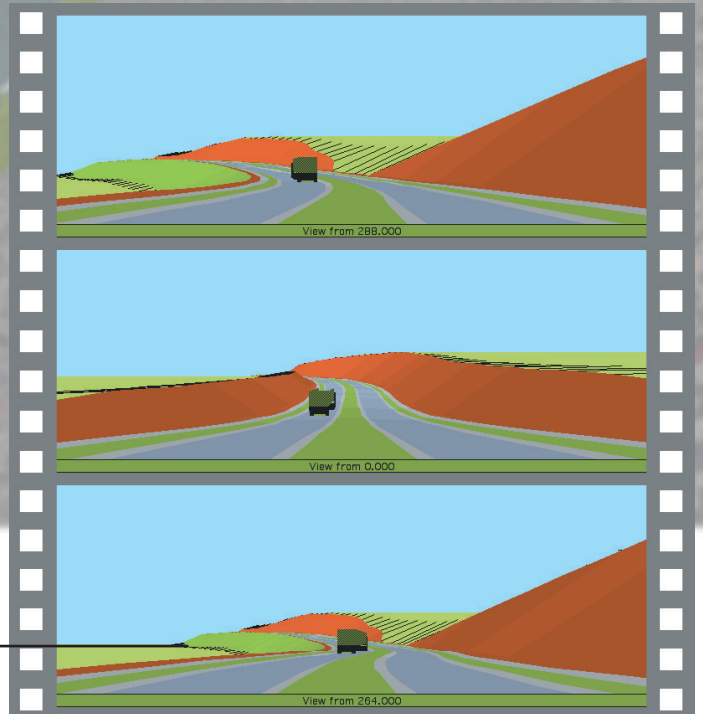
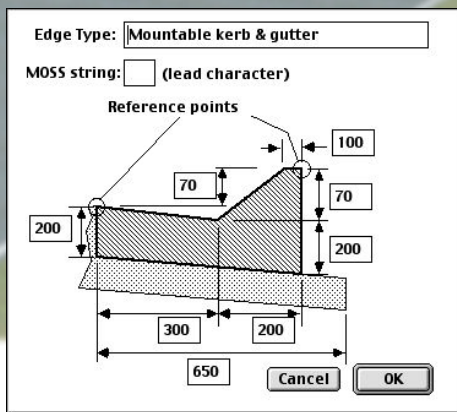
Take a quantum leap in productivity with HighRoad’s **optimised design**. Its time-saving interactive design, fast computation, embedded intelligence and reusable libraries take hours off your road designing – so you can use your creativity without letting the engineering weigh you down.

Automatic functions

Fast algorithms together with **automatic design functions** make design fast and easy. Adjust any of your designs and all coordinates and chainages are automatically recalculated. Geometric calculations are done for you leaving you free to think about the broader design considerations.

Quick to learn, easy to come back to

No time to attend week-long training sessions or to spend hours poring over manuals? Only two per cent of our customers have had any formal training in how to use HighRoad. When you have a road design task, HighRoad allows you to get it on with the job rather than grapple with the software.



Intelligent object design

HighRoad's intelligent object design automatically maintains complex relationships in a network of intersecting roads. Each road automatically adjusts itself to match changes in other roads that it connects to. This extends not only to the obvious plan relationship but also the vertical grading of the roads, how they interconnect and the interaction between cut and fill batter slopes in an intersection.

HighRoad also allows you the flexibility to override its decisions when necessary. However, the trial design it creates for you is remarkably good and a real time-saver.

Create your own libraries

Use feature libraries developed from your previous work so that production of a complete terrain model happens automatically. Quickly select from your section libraries to design roads of a common type.

Producing results

Produce results quickly with HighRoad's advanced output options. Interface with popular engineering applications or output visualisations of your designs.

Visualisation

Create high quality graphics or impressive three dimensional drive through simulations* of your design. Simply specify the design speed and sight distance and HighRoad does the rest for you. The photorealistic images in this brochure are samples of scenes created in HighRoad.

Fast drawing production

HighRoad produces a full set of plan or profile drawings for you – orienting each plan view to fit nicely on the drawing sheet. The drawing manager synchronises drawing production with design by establishing a drawing layout that is automatically updated throughout your design process.

Construction

When it comes to construction, HighRoad produces data sets for uploading to electronic data loggers so the work can be set out in the field. It also monitors the progress of construction work including the change in earthworks volume, the work done and the amount of work remaining at each location. The familiar terms and visual tools for design make HighRoad ideal for earthmoving contractors who rarely have the opportunity to dedicate specialised staff to the operation of the software.

Who uses HighRoad?

Customers in 38 countries across the globe take advantage of HighRoad's unique benefits:

Karl Matiszik – Taylor and Herbert, Australia

Karl takes advantage of HighRoad's fast learning curve. *"HighRoad has the great advantage over other programs through ease of use. It does not require a dedicated user to operate the program."*

Filip De Pauw – Studiebureau N. & F. De Pauw, Belgium

Filip uses HighRoad because of its *"different manner of thinking"* which sets it apart from other road software. He particularly enjoys HighRoad's built-in intelligence in which *"all the design elements are linked together."*

Greg Hooper – Blayney Shire Council, Australia

Greg's work requires many things of him, and he may only need to design roads a couple of times a year. HighRoad allows him to quickly do the task as *"it's easy to use and easy to come back to."*

Ian Darnell – Queensland Department of Main Roads

Ian uses the quick results of HighRoad to aid with his design process. He finds *"HighRoad to be an easy alternative to other packages when planning roads and ancillary works particularly in the concept phase."*

Alvaro Ramirez Roa – Siete, Colombia

Alvaro states that *"HighRoad is the fastest road design program I have ever seen and used."* He needs his road design software to be quick and flexible. *"The versatility of HighRoad is limited by the imagination. You can design channels, pipes, roads, earthworks, dams geometry, intersections etc."*

Note: HighRoad is available in English, Japanese, Italian and Spanish.

HighRoad modules

The features of HighRoad are organised into modules. Customise HighRoad by selecting the modules you require:

- Extra points – increase points by 10 times
- Extra roads – 100 roads
- Intersections and cul-de-sacs
- Data logger
- Import/export
- 3D viewing and simulation*
- Extra DTM – suitable for rock strata
- Drawing manager
- Rockfall simulation

Popular configurations include:

HighRoad Pro – 500,000 points, all modules.

HighRoad Plus – 5000 points, 100 roads, import/export options, intersections, drawing manager.

HighRoad S – one road, one pad, 500 points, export in PICT and 2D DXF.

Note: Modules can be added at any time.

- * 3D module for Windows version available May 2001

System recommendations

Macintosh:

- Mac OS 8, 9, X
- Power G3 or better
- 128Mb RAM
- 80Mb hard disk space

Windows:

- Windows 95, 98, 2000 or NT 4.0
- Pentium III or better
- 128Mb RAM
- 100Mb hard disk space

Note: For small projects, lesser systems may suffice. Contact Creative Engineering for details.



Australia Pty Ltd. ABN 33052 008 750

6 Antill Street
Wilston Qld 4051
AUSTRALIA

Phone: +61 7 3356 6271
Fax: +61 7 3352 6619
Email: info@createng.com.au
Web: www.createng.com.au

For more information about HighRoad and international distributors, please contact Creative Engineering.

Macintosh and MacOS are trademarks of Apple Computer Inc.
Windows and Windows NT are registered trademarks or trademarks of Microsoft Corporation.
The HighRoad symbol is a registered trademark licensed to Creative Engineering.