

VISUAL CONSTRUCTION PRODUCT SPECIFICATIONS

Digitizing from Drawings

- 2D and 3D design data
- Uses any Windows-compatible digitizer
- Cross section and plan sheets

Earthwork Analysis

- Calculates volumes for all project phases
- Detailed volume reports
- Gaps for structure openings
- Run-in and run-out of materials to actual starting and ending stations
- Changes in expansion and compaction factors
- Borrow and waste

Quantity Estimating

- Feature code driven quantity tabulation
- Customizable pay item tables
- Quantity calculations to printed reports or to spreadsheets
- Detailed reports

Mass Haul

- Reports
- Diagrams
- Free haul, dead haul, and overhaul distances

Construction Reports

- Radial and station offset stakeout reports
- Detailed slopstakes reports created from roadway design models
- Library of customized slopstakes reports available
- Customizable reports for milling, leveling and resurfacing
- Earthwork volume reports

Data Import and Export

- Supports all major data collectors for import and stakeout
- Import and export reduced survey data
- Export a CAiCE database to a user-defined format
- Import data from all major civil software packages

Geometric Layout

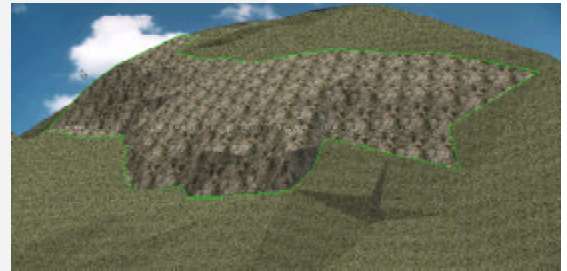
- Interactive tools for defining geometry elements and chains
- Multiple methods to store points, curves and chains
- Advanced tools to define edges of pavements, intersection geometry, compound curves, and all types of spirals

Cross Section Editing

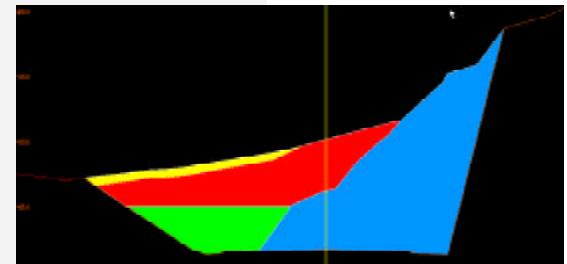
- Complete tools for editing cross section points, links, and surfaces
- Edits may be applied over a range of stations
- Multiple tools for creating and editing re-measure surfaces
- Definition and modeling of topsoil stripping and surcharge surfaces
- Advanced editing tools for extending, trimming, and closing surfaces
- Definition and modeling of rock surfaces

Geotechnical ToolBox

- Easy creation of subsurface digital terrain models
- Comprehensive borehole editor for data input
- Borehole information easily plotted in 3D, cross section sheets, and profile sheets



Rock Area Delineation



Stripping Excavation and Rock Areas

Data Format

Compatibility:

- AutoCAD DWG (2002)
- DGN (V8)
- DXF
- LandXML
- All major data collectors
- All major civil software packages

ToolBoxes Included:

- Visualization ToolBox
- Geotechnical ToolBox
- Integrated Survey ToolBox
- LandXML ToolBox

Minimum Requirements:

- Pentium II Processor or higher
- Windows 95, 98, 2000, NT, or XP
- 64 MB of RAM (128 or more recommended)
- Video card - SVGA with True Color (32-Bit)
- Approximately 300 MB hard drive space for complete installation

Roadway Design

- Traffic rerouting and detours
- On-site design changes
- Superelevation definition
- Advanced tools for creating and editing horizontal alignments and profiles
- Interactive cross section design tools

Surface Modeling for Grading Plans

- Define 3D surfaces from user-defined shapes

Survey

- Supports all major data collectors
- Survey and model existing terrain
- Collect data for topsoil removal, rock outcrops and other special materials
- Survey re-measures during construction for progress payments
- Export design geometry directly to survey data collectors

Digital Terrain Modeling (DTM)

- Ability to utilize large datasets
- Easy loading and construction of DTM's
- Cross section construction
- Viewing, rendering and editing of DTM surfaces
- Freehand cross sections and profiles

Progress Payments

- Tabulate at any phase of construction
- Calculate final estimates

Drafting / Plans Production

- Text manipulation and labeling
- Plotting – plan/profile
- Automatic annotations
- Creation of as-built plans
- Customizable data tables
- Draws line segments, line strings, cells and shapes

Productivity Tools

- Snap Bar for tracking the cursor by coordinates, station offset and other options
- Data Tips for identifying screen objects
- Database Explorer for analyzing database contents
- Measure command for positions, distances, and areas
- Customizable toolbars
- Panning & zooming features
- Project Manager for data management operations
- Command history that can be saved, edited and re-run
- Project coordinate transformations
- Shortcut keys
- Picker Controls
- Intellimouse support
- Gravity mode
- TugBoats (workflow wizards)

Customization

- VBA macros
- VBA CAiCE object library
- Tugboats (workflow wizards)
- Use VBA to link your project database to Excel, Word, Access, ArcView, and other programs

Visualization, Graphics and Imaging

- Viewing Background Files
- Draping Images onto surfaces
- Supports GIF, JPEG, TIFF, BMP, CMP, KODAK, and other major formats
- Create and play AVI files for drivethroughs and client presentations

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