Features of Carlson Survey, Civil, Construction and Takeoff – Surfaces, Grading & Volumes

A Virtual Webinar Using Carlson Software – Learn to Grade Building Pads and Calculate Earthwork Volumes

This Carlson Software webinar demonstrates practical surface, grading and volume tools available across Carlson Survey, Civil, Construction and Takeoff. Attendees learn to convert 2D geometry into 3D break lines, grade and daylight building pads, calculate and visualize earthwork and model special conditions such as daylight basements and retaining walls.

Key Topics:

- 2D-to-3D polyline conversion and break lines
- Building-pad elevation and daylighting
- Design Pad Template and surface creation
- Earthwork volumes, labels and color maps
- Daylight basements and retaining-wall grading

Descriptions, transcripts and other details of this recording have been AI-generated and may contain errors.

This session was presented by Jennifer DiBona on 04/25/2018.

Centerlines, Profiles & Overview of RoadNet

A Virtual Webinar Using Carlson Software – Learn Centerline, Profile and RoadNet Design Workflows

This Carlson Software webinar explains how to create linked centerlines, generate and edit profile files and move from individual alignments into a coordinated RoadNet design. It demonstrates stationing, profile types, reusable display settings, road templates, intersections, cul-de-sacs, quantity reporting and surface output for practical civil design workflows.

Key Topics:

- Linked centerline and stationing workflows
- Profile creation, editing and labeling
- Reusable PFS profile settings
- RoadNet templates and network design
- Surface, quantity and stakeout outputs

Descriptions, transcripts and other details of this recording ha ve been AI-generated and may contain errors.

This session was presented by Jennifer DiBona on 03/22/2018.

Surfaces & Breaklines – The Basics

A Virtual Webinar Using Carlson Software – Learn to Build Surfaces with Breaklines

This webinar introduces participants to fundamental surface modeling concepts in Carlson Software, focusing on break lines, triangulated irregular networks (TINs) and contour generation. It walks through data preparation, surface creation from points and contours, the importance of 3D polylines and practical workflows for merging, inspecting and exporting surfaces.

Key Topics:

- Building surfaces from points and break lines
- Triangulate & Contour command settings
- Field to Finish automation for 2D/3D polylines
- Importing & merging TIN files and NED data
- Understanding why contours alone are insufficient
- Exporting surfaces (LandXML/Handoff to Civil 3D)

Descriptions, transcripts and other details of this recording have been AI-generated and may contain errors.

This session was presented by Jennifer DiBona on 02/27/2018.

More Surfaces, Volumes, Editing & Display Tips & Tricks

A Virtual Webinar Using Carlson Software – Learn to Improve Surface Volume Workflows

This webinar explores advanced tools and workflows in Carlson Software, focusing on surface modeling, editing, volume calculations and display customization. It illustrates powerful methods for merging TIN files, performing topsoil stripping, daylight design and visual surface inspections for practical civil and survey applications.

Key Topics:

- Surface modeling and TIN file management
- Merging TIN files
- Surface editing tools
- Volume calculation and balancing techniques
- Topsoil stripping and daylight design
- Visualization and analysis tools (3D Viewer, Surface Inspector, Cut/Fill maps)

Descriptions, transcripts and other details of this recording have been AI-generated and may contain errors.

This session was presented by Jennifer DiBona on 09/23/2019.

Survey Project From Start to Finish

A Virtual Webinar Using Carlson Software – Learn to Take Survey Projects from Field to Plotted Sheet

This training webinar from That CAD Girl demonstrates how to process a survey project in Carlson Software from raw field data to a fully annotated and plotted drawing. Participants learn best practices for point import, deed entry, data correlation, field-to-finish automation and preparation for plotting or publishing.

Key Topics:

- Importing and managing points and coordinate files (CRD)
- Entering and editing deeds using Carlson Survey
- Deed correlation and alignment with field data
- Field-to-Finish setup and drawing generation
- Annotation, labeling and plotting workflows

Descriptions, transcripts and other details of this recording have been AI-generated and may contain errors.

This session was presented by Jennifer DiBona on 04/10/2019.

Surfaces and Breaklines – the Basics

A Virtual Webinar Using Carlson Software – Learn to Build Surfaces with Breaklines and Merge NED Data

This instructional webinar explains the essential concepts of building surface models and defining breaklines in Carlson Software. Participants learn how to triangulate points, integrate 3D polylines, merge elevation datasets and identify common pitfalls when constructing or sharing terrain surfaces.

Key Topics:

- Creating surfaces from points in Carlson Software
- Purpose and definition of breaklines/fault lines
- Manual vs. Field-to-Finish creation of 3D polylines
- Merging TIN surfaces and importing National Elevation Data set (NED) data
- Problems using only contours versus comprehensive surface data

Descriptions, transcripts and other details of this recording have been AI-generated and may contain errors.

This session was presented by Jennifer DiBona on 03/20/2019.

Site Project Grading from Start to Finish

A Virtual Webinar Using Carlson Software – Learn to Complete Site Grading

This webinar from *That CAD Girl* provides a complete walkthrough of grading a small site project—from setup to balanced design—using Carlson Civil Software. It demonstrates practical 3D data management, polyline conversions, surface creation and balancing methods essential for site design professionals.

Key Topics:

- Carlson Civil setup, configuration and linking settings
- Elevating polylines and creating 3D grading plans
- Grading workflow for building pads, curbs and parking lots
- Surface model creation, densification and balancing cut/fill volumes
- Visualization and verification of final design surfaces

Descriptions, transcripts and other details of this recording have been AI-generated and may contain errors.

This session was presented by Jennifer DiBona on 12/17/2019.

Mark’s Favorite Things in Carlson Desktop Software

A Virtual Webinar Using Carlson Software – Learn to Improve Desktop Workflows

This webinar, hosted by That CAD Girl and presented by Mark Long from Carlson Software, highlights Mark’s favorite time-saving features and techniques in Carlson’s desktop civil design tools. The session demonstrates practical workflows in Roadnet, cross-section generation, cul-de-sac design and the new 2020 utility network functions.

Key Topics:

- RoadNet tips for roadway design efficiency
- Intersection primary and secondary road settings
- Cul-de-sac and curb ramp customization
- Drawing and editing cross sections and profiles
- New 2020 Utility Network for gas, water and electric lines

Descriptions, transcripts and other details of this recording have been AI-generated and may contain errors.

This session was presented by Mark Long on 12/04/2019.

Site Project Grading from Start to Finish

A Virtual Webinar Using Carlson Software – Learn Site Project Grading from Start to Finish

This webinar provides a complete walkthrough of grading a small site project from start to finish using Carlson Civil. It demonstrates using 3D data commands, layer management, polyline editing, surface creation and daylighting techniques to produce a balanced, accurate site model.

Key Topics:

- Converting 2D elements to 3D polylines
- Building and modifying surfaces in Carlson Civil
- Applying slopes, offsets and elevations for pads, curbs and driveways
- Managing contours and ensuring positive drainage
- Using shrink-wrap entities, polyline utilities and 3D surface analysis

Descriptions, transcripts and other details of this recording have been AI-generated and may contain errors.

This session was presented by Jennifer DiBona on 01/16/2019.

Surface Modeling with the SiteNet & Takeoff Menus in Civil, Construction & Takeoff

A Virtual Webinar Using Carlson Software – Learn to Build Surfaces and Calculate Quantities with SiteNet and Takeoff

This detailed webinar explains how to use Carlson Software's SiteNet and Takeoff menus for layer-based surface modeling, material quantity takeoff and topsoil management. It walks users through setting up drawings, defining layers, creating surfaces and running reports for excavation, paving and earthwork calculations.

Key Topics:

- Carlson Civil/Construction SiteNet and Takeoff menus
- Setting up drawings for layer-based surface modeling
- Defining layers and surfaces (Existing vs. Design)
- Earthwork quantities and reports
- Subgrades for curb and pavement
- Topsoil management and replacement

Descriptions, transcripts and other details of this recording have been AI-generated and may contain errors.

This session was presented by Jennifer DiBona on 05/15/2019.