

Basics of Surface Modeling in Carlson Software

A Virtual Webinar Using Carlson Software – Learn to Build Surface Models

This webinar introduces the fundamentals of surface modeling in Carlson Software, covering how to prepare data, build and refine surfaces, and troubleshoot common issues. Participants learn practical workflows for triangulation, contour generation, breaklines, and integrating external elevation data.

Key Topics:

- Preparing data and checking elevations before surface creation
- Triangulate & Contour workflow and shrink-wrap boundaries
- Using breaklines, non-surface points, and field-to-finish automation
- Importing and merging Google Earth and NASA elevation surfaces
- Contour labeling, line-type generation, and quality-control techniques

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This session was presented by Jennifer DiBona on 02/07/2024.

That CAD Girl

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Basics of Road Design in Carlson Software

A Virtual Webinar Using Carlson Software – Learn to Design Roads

This webinar, hosted by That CAD Girl and presented by Travis Maxwell, provides a step-by-step introduction to road design using Carlson Software. It covers essential workflows including drawing setup, creating centerlines, profiles, templates, intersections, and cul-de-sacs for civil design projects.

Key Topics:

- Carlson drawing setup and coordinate systems
- Creating and managing road centerlines and profiles
- Building and editing templates for pavement, curbs, and grading
- Handling intersections and cul-de-sacs
- Using Google surfaces for preliminary design

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This session was presented by Travis Maxwell on 03/15/2024.

MicroSurvey Surfacing Operations with MSCAD

A Virtual Webinar Using MicroSurvey – Learn to Create Terrain Models

This webinar, hosted by That CAD Girl and presented by MicroSurvey's Matt McLean, provides a detailed walkthrough of surfacing and contouring operations in MicroSurvey CAD. Attendees learned how to create, configure, and visualize surfaces, contours, and terrain models using real-world data.

Key Topics:

- Introduction to MicroSurvey CAD and product ecosystem
- Creating and managing surfaces and contours
- Configuration settings for modeling and visualization
- Handling boundaries, breaklines, and point data
- Labeling and smoothing contours

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This session was presented by Matt McLean on 05/22/2025.

Fast Track to Carlson Civil Suite & CADnet – Session #2-3

This training session provides an in-depth walkthrough of Carlson Civil Suite's RoadNet, Hydrology, and CADnet modules, demonstrating practical workflows for road design, storm sewer layout, and converting PDF plans into CAD data. The instructor showcases real-world examples, emphasizing dynamic design updates, data management, and interoperability with Civil 3D and LandXML standards.

Key Topics:

- RoadNet dynamic road design and intersection management
- Storm sewer network setup and hydrology drafting
- Exporting and archiving projects with LandXML
- CADnet tools for PDF-to-CAD conversion and digitizing
- Raster vs. vector PDF handling and troubleshooting

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This session was presented by Jennifer DiBona on 03/14/2024.

Fast Track to Carlson Civil Suite & CADnet – Session #2-2

This training session from *That CAD Girl's Fast Track Carlson Civil Suite & CADnet* series covers creating and editing centerlines, profiles, and road networks using Carlson Civil and Survey. It demonstrates manual and automated design workflows, including RoadNet, profile editing, and template building for roadway design.

Key Topics:

- Centerline and profile creation in Carlson Survey and Civil
- Manual vs. RoadNet-based design workflows
- Profile editing, labeling, and linking data files
- Road network setup, templates, and intersections
- Troubleshooting and known issues in 2023–2024 builds

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This session was presented by Jennifer DiBona on 03/14/2024.

Fast Track to Carlson Civil Suite & CADnet – Session #2-1

This training session provides an in-depth walkthrough of Carlson Civil Suite's LotNet, grading, and 3D design tools, guiding users through lot subdivision, surface modeling, and site grading workflows. It demonstrates how to transition from 2D drafting to 3D design using Carlson Civil's powerful automation and data management features.

Key Topics:

- Carlson LotNet design and configuration
- Transitioning from 2D to 3D design workflows
- Site grading, surface modeling, and volume calculations
- Integration of Survey, Civil, GIS, Hydrology, and CADnet modules

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This session was presented by Jennifer DiBona on 03/14/2024.

Fast Track to Carlson Civil Suite & CADnet – Session #1-3

This session of the Fast Track Carlson Civil Suite & CADnet training focused on advanced survey and drafting workflows in Carlso

n Survey and Civil, including Field-to-Finish automation, surface modeling, labeling, and subdivision lot management. Participants learned how to streamline data processing from field collection through surface creation and annotation for professional deliverables.

Key Topics:

- Field-to-Finish (FLD) setup and usage
- Surface modeling and non-surface point management
- Annotation, labeling, and line/curve tables
- Lot file and deed file creation and management
- Carlson Survey text and layout utilities

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This session was presented by Jennifer DiBona on 03/12/2024.

Fast Track to Carlson Civil Suite & CADnet – Session #1-2

This session of the Fast Track Carlson Civil Suite & CADnet training provides a detailed walkthrough of GIS data handling, surface modeling, and field-to-finish workflows in Carlson 2023–2024. Participants learned how to import, label, and export GIS data, overlay imagery, create surfaces, and generate legal descriptions and contours.

Key Topics:

- Importing and labeling GIS shapefiles
- Working with Google Earth and Esri imagery
- Creating and editing surfaces from points and breaklines
- Using field-to-finish automation
- Generating legal descriptions and exporting to Google Earth

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This session was presented by Jennifer DiBona on 03/12/2024.

Fast Track to Carlson Civil Suite & CADnet – Session #1-1

This introductory Fast Track training session guides users through the fundamentals of Carlson Civil Suite 2024 and CADnet, including software setup, configuration, interface navigation, and GIS data handling. Participants learn best practices for managing projects, defaults, and data files while exploring key differences between Carlson versions 2023 and 2024.

Key Topics:

- Carlson Civil Suite overview and module structure
- Interface setup, menus, ribbons, and configuration defaults
- Project folder organization and data management

- GIS import workflows and known 2024 issues
- File associations, linking, and coordinate system setup

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This session was presented by Jennifer DiBona on 03/12/2024.

Case Study for a Sanitary Sewer Collection System

A Virtual Webinar Using Carlson Software – Learn to Design Sanitary Sewer Collection Systems

This webinar, hosted by That CAD Girl and presented by Travis Maxwell, provided a detailed case study on designing a sanitary sewer collection system using Carlson Software. The session covered practical workflows, from project setup and Google Earth integration to sewer network creation, labeling, and profile generation.

Key Topics:

- Carlson Sewer Network setup and configuration
- Exporting CAD data to Google Earth
- Sewer design workflow and profile creation

- Managing plan view and profile labels
- Troubleshooting and best practices

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This session was presented by Travis Maxwell on 02/27/2025.