

Surfaces and Breaklines – the Basics

Recorded 08/15/2018

This webinar provides a detailed walkthrough of creating accurate terrain surfaces in Carlson Software, focusing on the importance of breaklines, triangulation, and contour generation. It demonstrates common pitfalls when building surfaces from contours and offers best practices for using field data, 3D polylines, and LandXML files for reliable surface modeling.

Key Topics:

- Creating and editing surfaces in Carlson Software
- Using triangulate and contour commands
- Understanding breaklines and their role in accurate surface modeling
- Problems with building surfaces from contours
- Importing and merging surface data (NED, DEM, TIN files)
- Using Surface Inspector and Field-to-Finish tools

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

This session was presented by Jennifer DiBona on 08/15/2018.

Site Grading Tips & Tricks

Recorded 12/19/2018

This webinar by That CAD Girl demonstrates practical grading workflows in Carlson Software, covering surface creation, merging, and pad design techniques. It provides step-by-step examples for building, editing, and inspecting TIN surfaces and grading pads using Carlson Survey, Civil, and Construction modules.

Key Topics:

- Creating and merging TIN surfaces
- Using public elevation data (NED/USGS)
- Pad grading and slope projection
- Design Pad Template vs. manual grading
- 3D Polyline and elevation editing tools

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This session was presented by Jennifer DiBona on 12/19/2018.

Overview of LandXML to Share and Transfer Data

Recorded 11/08/2018

This webinar provides a detailed overview of LandXML—an open, non-proprietary data format used to exchange survey, civil, and land-development information between software such as Carlson Civil and Autodesk Civil 3D. Participants learn how to export, import

t, and archive project data using LandXML to ensure long-term accessibility and cross-platform compatibility.

Key Topics:

- What LandXML is and why it matters
- Exporting/importing LandXML in Carlson Civil and Civil 3D
- Using LandXML for archiving, collaboration, and machine-control workflows

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This session was presented by Jennifer DiBona on 11/08/2018.

Overview of Carlson GIS Recorded 09/25/2018

This webinar provides a practical introduction to Carlson GIS, demonstrating how to import, manage, and visualize geospatial data such as shapefiles, images, and parcel information. It covers fundamental GIS setup, data linking, querying, labeling, and exporting to Google Earth using Carlson GIS tools.

Key Topics:

- Importing and managing ESRI shapefiles
- Setting up GIS feature and database files
- Using queries, labeling, and inspector tools
- Integrating imagery and exporting to Google Earth
- Creating and maintaining parcel-based GIS databases

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This session was presented by Jennifer DiBona on 09/25/2018.

Mark's Favorite Things in Carlson Desktop Software – by Mark Long Recorded 10/11/2018

This webinar features Mark Long from Carlson Software demonstrating his favorite tools and workflows in Carlson Civil and Hydrology. He walks through road design, template point centerlines, surface modeling, and hydrology setup, offering practical examples and design tips for everyday engineering tasks.

Key Topics:

- Carlson Road Network and Template Point Centerlines
- Surface modeling and grading workflows
- Hydrology setup, watershed layers, and storm drainage design

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This session was presented by Mark Long on 10/11/2018.

Making Models from a Mess – Carlson Tools to Elevate 2D Drawings to 3D for staking or surface models

Recorded 10/25/2018

This webinar, *Making Models from a Mess*, teaches Carlson Software users how to clean up poorly drafted CAD drawings and convert 2D entities into accurate 3D models for staking and surface modeling. It covers essential tools, workflows, and best practices for managing layers, fixing geometry, and elevating polylines to create usable 3D data.

Key Topics:

- Cleaning and organizing messy CAD drawings
- Elevating 2D polylines and contours to 3D
- Managing layers and converting Civil 3D/Land Desktop data
- Using Carlson tools for model building and stakeout preparation
- Handling spot elevations, contours, and building pads

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This session was presented by Jennifer DiBona on 10/25/2018.

Jeremy's Favorite Things in Carlson Desktop Software – by Jeremy Taylor PLS

11/09/2018

This webinar features licensed surveyor Jeremy Taylor sharing his favorite tools and workflows in Carlson Desktop Software. He demonstrates practical tips for surveyors and CAD professionals to streamline drafting, data management, and field-to-finish processes.

Key Topics:

- Carlson Software utilities and cleanup tools
- Best Fit Centerline and Lot Closure workflows
- Legal Description Writer and sequential numbering
- Integration with Google Earth and Carlson Cloud
- Importing PDFs and creating alignments/profiles

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This session was presented by Jeremy Taylor on 11/09/2018.

Features of Carlson Hydrology

– Drafting Pipes & Structures Recorded 06/20/2018

This webinar introduces the drafting and setup features of Carlson Hydrology, focusing on creating and labeling sewer networks, profiles, and pipe structures. It demonstrates how to configure network settings, build and visualize storm sewer systems, and export them into Carlson Civil profiles for design and documentation.

Key Topics:

- Sewer network setup and drafting workflows
- Creating and labeling profiles (existing, proposed, and sewer)
- Using Carlson Hydrology's SEW and PRO file structures
- Drawing plan views, profiles, and data tables
- Integration with Carlson Civil and 3D Viewer

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This session was presented by Jennifer DiBona on 06/20/2018.

If You're Not Using LandXML – You Should Be (yes, all of

you!)

Recorded 09/11/2018

This webinar, hosted by That CAD Girl and presented by Nathan Cruz of Carlson Software, introduces LandXML as a universal data format for sharing and managing civil engineering and survey data. It covers LandXML's structure, supported data types, interoperability between CAD and survey platforms, and its expanding role in photogrammetry and machine control.

Key Topics:

- Overview and history of LandXML
- Data exchange between Carlson, Autodesk, and Bentley products
- Using LandXML with photogrammetry and drone data
- LandXML 2.0 enhancements (materials, 3D objects)
- Future ISO standardization for machine control

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This session was presented by Nathan Crews on 09/1/2018.

**Drawing Templates, Carlson
Layer Library & Other Layer**

Management Tips

Recorded 07/27/2018

This webinar explains how to create, customize, and manage drawing template files (DWT) and layers in Carlson Software and AutoCAD/IntelliCAD. It covers best practices for setting up company standards, using the Layer Library, and improving drawing efficiency through template customization.

Key Topics:

- Creating and customizing DWT template files
- Understanding Carlson and NCS layer standards
- Using Layer Library for layer management and standardization

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This session was presented by Jennifer DiBona on 07/27/2018.