

# **2016 Virtual Classroom – Civil & Hydrology Virtual Workshop – Bonus Lunch Session 3 Recorded 05/24/2016**

This session of the Civil and Hydro Virtual Workshop provided an in-depth overview of new features and enhancements in Carlson 2017, covering updates across Civil, Survey, Hydrology, GIS, and Take off modules. Dave Carlson demonstrated performance improvements, new tools, and integration capabilities designed to streamline CAD and hydrology workflows.

## **Key Topics:**

- Carlson 2017 new features and release timeline
- IntelliCAD 8.2 and solids functionality
- Enhancements in Survey, Civil, Hydrology, GIS, and Takeoff modules

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

This session was presented by Dave Carlson on 05/24/2016.

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## **2016 Virtual Classroom – Civil**

# **& Hydrology Virtual Workshop – Session 2 Recorded 05/24/2016**

This session from the Civil & Hydrology Virtual Workshop provides an in-depth look at creating and managing surfaces and grading in Carlson Civil and Survey. It covers triangulation, contour generation, break lines, merging surfaces, and practical grading workflows for real-world design projects.

## **Key Topics:**

- Building surfaces from points, contours, and break lines
- Managing TIN files and contour labeling
- Using Field-to-Finish, triangulation, and surface editing
- Merging survey and GIS elevation data
- Grading pads, daylighting, and balancing cut/fill volumes

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This session was presented by Jennifer DiBona on 05/24/2016.

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## **2016 Virtual Classroom – Civil & Hydrology Virtual Workshop –**

# Session 1

## Recorded 05/24/2016

This webinar, hosted by That CAD Girl, provides a detailed walk through of Carlson Civil and Hydrology tools, focusing on CAD productivity tips, polyline utilities, annotation techniques, and surface modeling workflows. Attendees learn practical methods for editing, labeling, and automating civil design elements within Carlson software.

### Key Topics:

- GoToWebinar setup, PDH credit tracking, and participation instructions
- Polyline editing and 3D offset tools in Carlson Civil
- Annotation, labeling, and auto-annotate settings for survey drawings
- Layout utilities for roads, cul-de-sacs, and right-of-way design
- Point management, text rotation, and labeling pad elevations

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This session was presented by Jennifer DiBona on 05/24/2016.

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## 2020 Virtual Workshop 3-6 Hot

# **New Features in Carlson 2021 Recorded 12/17/2020.**

This virtual workshop session showcased new and enhanced features in Carlson 2021 software, focusing on Survey, Civil, and CADNet modules. Presenter Scott Griffin demonstrated dynamic point attributes, BIM/Revit file integration, road network improvements, and advanced parking design tools for surveyors and engineers.

## **Key Topics:**

- Dynamic Point Attributes in Survey module
- BIM/Revit file import and manipulation in CADNet
- Road Network enhancements including hammerhead cul-de-sacs
- New Parking Network and design tools
- Handicap and layout customization features

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This session was presented by Scott Griffin on 12/17/2020.

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## **2020 Virtual Workshop 3-8 Utility Network Design in Carlson Hydrology**

# Recorded 12/17/2020.

This virtual Carlson Software workshop, led by Mark Long, provided an in-depth demonstration of detention pond design, hydrology analysis, and utility network creation within Carlson Civil and Hydrology. The session covered practical workflows, design parameters, and troubleshooting tips for stormwater management and utility modeling.

## Key Topics:

- Detention pond design and hydrology setup
- Rainfall data integration and hydrograph generation
- Outlet structure configuration (riser, orifice, weir)
- Utility network creation and pipe crossing management
- Troubleshooting and Q&A with developers

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This session was presented by Mark Long on 12/17/2020.

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# Survey Project from Field to Plotted Sheet Recorded 1/12/2021

This webinar demonstrates a complete Carlson Survey workflow, showing how to take raw field data through coordinate file creation, deed entry, surface modeling, and final sheet plotting. It co

vers practical commands, configuration tips, and troubleshooting steps for surveyors using Carlson 2020/2021 on IntelliCAD.

### **Key Topics:**

- Carlson configuration and project setup
- Importing and managing point data (CRD files)
- Deed entry, correlation, and legal description tools
- Field-to-Finish automation and surface creation
- Plotting, labeling, and sheet preparation

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*This session was presented by Jennifer DiBona on 01/12/2021.*

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# **Surfaces and Breaklines – the Basics**

## **Recording 1/19/2021**

This webinar introduces the foundational concepts of surface modeling and breaklines in Carlson Civil and Takeoff. It covers how to prepare data, build accurate surfaces, use breaklines effectively, and avoid common pitfalls when working with contours and triangulated irregular networks (TINs).

## **Key Topics:**

- Surface modeling fundamentals in Carlson Civil/Takeoff
- Using 3D Viewer and Shrink Wrap Entities
- Managing non-surface points and breaklines
- Field-to-Finish automation
- Combining and exporting surface data

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*This session was presented by Jennifer DiBona on 01/19/2021.*

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# **SiteNet & Takeoff Menus In Carlson Civil, Construction & Takeoff, Recorded 1/27/2021**

This webinar provides a detailed walkthrough of surface modeling and material takeoff workflows using Carlson Civil and Construction's SiteNet and Takeoff menus. Jennifer DiBona explains how to prepare clean CAD layers, define surfaces, calculate volumes, and generate material quantity reports for accurate construction estimating.

## **Key Topics:**

- Layer management and cleanup for surface modeling

- Defining existing and design surfaces in SiteNet
- Setting up subgrade, topsoil, and boundary polylines
- Calculating cut/fill volumes and material quantities
- Visual verification and troubleshooting techniques

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*This session was presented by Jennifer DiBona on 01/27/2021.*

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# **Overview of Carlson Point Clouds Using PhotoCapture Recording 5/20/2021**

This webinar provides a detailed demonstration of Carlson Photo Capture and Carlson Point Cloud software, showcasing how drone imagery and LiDAR data can be processed into accurate 3D surfaces for site design. The session covers workflows, pricing models, and integration with Carlson Precision 3D and hydrology tools.

## **Key Topics:**

- Carlson Photo Capture setup and workflow
- Carlson Point Cloud processing and editing tools
- Integration with Precision 3D and hydrology modeling
- Kentucky LIDAR data access and usage
- Surface creation, breaklines, and stormwater design

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*This session was presented by Steve Cummings on 05/20/2021.*

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# **More Surfaces: Volumes, Editing & Display Tips & Tricks**

## **Recorded 10/12/2021**

This webinar, hosted by That CAD Girl, provides an in-depth walkthrough of Carlson Software's surface modeling tools, including creating, editing, and analyzing surfaces, volumes, and contours. Jennifer demonstrates practical workflows for managing TIN files, comparing surfaces, and visualizing data in 3D for civil and survey applications.

### **Key Topics:**

- Working with TIN files and surface visualization
- Creating and editing surfaces, contours, and boundaries
- Volume calculations and cut/fill analysis
- Integrating GIS and elevation data
- Practical Carlson Civil and Survey tips

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*This session was presented by Jennifer DiBona on 10/12/2021.*