

# **2021 Virtual Workshops 1-4 Tips & Tricks in Carlson Civil & Hydrology Recorded 12/01/2021**

This virtual workshop session, led by Mark Long from Carlson Software, explores advanced design workflows in Carlson Civil, focusing on RoadNet, hydrology, and utility network tools. Attendees learned practical tips for roadway design, intersection grading, sewer and stormwater modeling, and creating custom structures for efficient civil engineering design.

## **Key Topics:**

- RoadNet advanced features and intersection control
- Grading, pad elevation, and contour management
- Sewer and storm drainage network design
- Utility network setup and waterline crossings
- Custom structure and inlet creation

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

This session was presented by Mark Long on 12/01/2021.

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## **2021 Virtual Workshops 1-2**

# Tips & Tricks for Standardizing Carlson Software with IntelliCAD

## Recorded 12/01/2021

This session from That CAD Girl's 2021 Virtual Workshops features Travis Maxwell presenting advanced Carlson Software and IntelliCAD techniques for establishing and maintaining CAD standards. The webinar covers fonts, line types, blocks, symbol libraries, and tool palettes to streamline drafting workflows and ensure consistent, efficient project delivery.

### Key Topics:

- Managing fonts, line types, and CAD standards in Carlson Software
- Creating and scaling custom blocks and symbols
- Setting up shared symbol libraries and tool palettes
- Troubleshooting IntelliCAD compatibility issues
- Implementing company-wide CAD standards and workflows

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This session was presented by Travis Maxwell on 12/01/2021.

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# **2021 Virtual Workshops 1-1 Overview of Carlson Software Products Recorded 12/01/2021.**

This virtual workshop introduces Carlson Software's core CAD tools, licensing options, and interoperability with AutoCAD and IntelliCAD. Jennifer DiBona demonstrates setup, field-to-finish workflows, surface modeling, lot design, and road network creation for surveyors and civil engineers.

## **Key Topics:**

- Carlson Software overview and independence
- Licensing, installation, and maintenance structure
- Field-to-Finish, surfaces, and data management
- GIS and Google Earth integration
- LotNet and RoadNet design workflows

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This session was presented by Jennifer DiBona on 12/07/2021.

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# **2022 Virtual Workshops 1-1**

# Introduction to CAD

## Recorded 11/15/2022

The opening session of the 2022 Virtual Workshops introduced participants to IntelliCAD 2023 and Carlson 2023, focusing on CAD fundamentals, interface navigation, and drafting precision. Jennifer DiBona guided attendees through command usage, settings, object snaps, polylines, text tools, and practical workflow tips for survey and civil design professionals.

### Key Topics:

- Workshop logistics and GoToWebinar Q&A setup
- Overview of Carlson 2023 (IntelliCAD 10.1) release and stability improvements
- CAD interface elements: command line, toolbars, menus, ribbons, workspaces
- Default settings, options, and drafting preferences
- Command entry, quick keys, and aliases
- Object snaps (OSNAP) and precision drafting
- Lines vs. polylines, grips, and selection methods
- Text creation (single-line vs multi-line) and editing
- Saving, backups, and workspace management

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This session was presented by Jennifer DiBona on 11/15/2022.

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# Introduction to RoadNet in Carlson Software

## A Virtual Webinar Using Carlson Software – Learn to Create Road Networks

This webinar introduces Carlson RoadNet, focusing on fundamental setup, workflow, and troubleshooting for creating road networks in Carlson Civil. The session covers drawing centerlines, setting templates, managing intersections and cul-de-sacs, and integrating lot grading for subdivision design.

### Key Topics:

- Carlson RoadNet basics and setup
- Drawing and orienting centerlines
- Templates, profiles, and intersections
- Cul-de-sac design and troubleshooting
- Lot and pad elevation automation

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*This session was presented by Travis Maxwell on 07/20/2022.*

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# 2022 Virtual Workshops 6-5 – Tips & Tricks and Management of Project Data Recorded 12/13/2022

In the final session of That CAD Girl's 2022 Virtual Workshop series, Travis demonstrated advanced CAD project management workflows using tables, custom fields, and sheet sets. The session also covered Civil 3D conversions, LIDAR data handling, grading, watershed analysis, and integration with HEC-RAS for hydrology modeling.

## Key Topics:

- Automating project data with tables and custom fields
- Using Sheet Set Manager for large projects
- Civil 3D file conversion and XREF management
- LIDAR data processing and surface creation
- Watershed analysis and drainage modeling
- HEC-RAS integration for hydraulic design
- Grading and pad design enhancements

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This session was presented by Travis Maxwell on 12/13/2022.

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# 2022 Virtual Workshops 6-4 Live Design\_New Techniques for Better Project Design with Carlson Civil Recorded 12/13/2022

This virtual workshop session features civil engineer Bill Dennis demonstrating a streamlined field-to-office GIS and CAD workflow using Carlson Software. The presentation covers integrating GPS data, GIS mapping, and CAD design to improve efficiency in large-scale land development projects.

## Key Topics:

- Field-to-office GIS and CAD integration
- GPS-based conceptual design workflows
- Carlson Software tools for civil engineering
- Data export/import between CAD, GIS, and mobile devices
- Real-world project demonstration

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This session was presented by Bill Dennis of Civil Design Team LLC of Greer on 12/13/2022.

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# **2022 Virtual Workshops 6-3 – Fire Flow Analysis Case Study Recorded 12/13/2022**

This Carlson Software virtual workshop session, led by Travis Maxwell, demonstrates how to model waterline extensions and perform fire flow and hydrostatic pressure analysis using Carlson's Pressure Pipe Network tools. The presentation covers setup, data input, hydraulic grade line calculations, and integration with EPA Net for validation.

## **Key Topics:**

- Pressure Pipe Network setup and configuration
- Fire flow and hydrostatic pressure testing
- Hydraulic grade line (HGL) and PSI-to-head conversions
- Integration with EPA Net for model verification
- Managing pipe crossings, profiles, and demand nodes

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This session was presented by Travis Maxwell on 12/13/2022.

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# **2022 Virtual Workshops 6-2 – Pervious Paver Parking Lot**

# Design

## Recorded 12/13/2022

This virtual workshop showcased a real-world case study on designing a permeable paver stormwater system using Carlson HydroNet. Engineers from Finch & Associates demonstrated how to model complex drainage networks, link watershed areas, and simulate stormwater detention using Carlson's 2022–2023 hydrology tools.

### Key Topics:

- Permeable paver stormwater design
- Carlson HydroNet modeling and routing
- Stormwater detention and drainage analysis
- Project case study: Veterinary hospital expansion in Knightdale, NC

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This session was presented by Finch & Associates from Raleigh, NC on 12/07/2022.

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## 2022 Virtual Workshops 6-1-

# Wet Pond Design for Multi-Family Development

## Recorded 12/13/2022

This virtual workshop demonstrates advanced stormwater design techniques using Carlson Software's HydroNet Explorer. Presenter Travis Maxwell guides attendees through converting Civil 3D files, creating surfaces from Google Earth data, and designing detention and wet ponds within Carlson's hydrology tools.

### Key Topics:

- Carlson Hydrology and HydroNet Explorer workflows
- Stormwater detention and wet pond design
- Civil 3D data conversion and surface modeling
- Curve number and time of concentration calculations
- Integration with Google Earth and LiDAR data

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This session was presented by Travis Maxwell on 12/13/2022.