

# Annotation for Surveyors

## Recorded on 3/24/2022

This webinar, *Annotation for Surveyors*, presented by Carlson Software's Doug Oberg, provides a detailed walkthrough of annotation tools and best practices in Carlson CAD software. The session covers area labeling, bearings and distances, curve annotation, and automation techniques for efficient survey drafting.

### Key Topics:

- Annotation setup and configuration in Carlson Software
- Labeling areas, bearings, distances, and curves
- Using Auto Annotate and Lot Network tools for automation

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

*This session was presented by Doug Aaberg on 03/24/2022.*

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## 2022 Virtual Workshops 4-1-Field to Finish from Start to Finish

# Recorded 12/06/2022

This virtual workshop session, led by Carlson Software's Doug Aaberg and hosted by That CAD Girl, provides an in-depth, step-by-step demonstration of Carlson's Field to Finish workflow. The training covers code table creation, special codes, multiple coding, layering strategies, and symbol management for efficient survey drafting and CAD automation.

## Key Topics:

- Field to Finish fundamentals and workflow setup
- Creating and managing code tables (FLD files)
- Using special codes and multiple coding for linework automation
- Layer management and attribute separation
- Drawing symbols, hatching, and labeling techniques

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

This session was presented by Doug Aaberg and Jennifer DiBona on 12/06/2022.

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# All About Coordinates in Carlson Software

# Recorded on 9/8/2022

This webinar, hosted by That CAD Girl and presented by Carlson Software's Doug Oberg, explores the fundamentals of coordinate systems used in surveying and CAD workflows. It covers ellipsoids, geoids, datums, scale factors, and Carlson tools for managing grid-to-ground conversions and projections.

## Key Topics:

- Coordinate system fundamentals (ellipsoid, geoid, state plane, grid vs. ground)
- Scale factors and combined scale factor calculations
- Carlson Software tools for coordinate management and projection setup
- Upcoming datum and unit changes (NAD 2022, low-distortion projections, U.S. survey foot retirement)
- Practical applications for surveyors using GPS, RTK, and CAD integration

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*This session was presented by Doug Aaberg on 09/08/2022.*

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# 2022 Virtual Workshops 3-6 – Carlson Software Showcase Hydrology – P3D Round Table continued Recorded 11/29/2022

This session of the 2022 Virtual Workshops continued the exploration of Carlson Hydrology and P3D tools, led by Bruce Carlson. The presentation demonstrated advanced storm sewer design, parametric inlet creation, and the upcoming Hydrology Engineer Game for training and competition.

## Key Topics:

- Storm sewer network analysis and optimization
- Parametric design of inlets and catch basins
- Integration of CAD and P3D Hydrology
- LandXML 2.0 and intelligent TIN modeling
- Introduction to the Hydrology Engineer Game

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This session was presented by Jennifer DiBona on 11/29/2022.

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# 2022 Virtual Workshops 3-5 – Carlson Software Showcase Hydrology – P3D Round Table Recorded 11/29/2022

This virtual workshop session from Carlson Software explored hydrology design workflows using Carlson Hydrology and Precision 3D Hydro. Presenters demonstrated detention pond design, rational and TR-55 methods, and integration between CAD and 3D modeling for stormwater management.

## Key Topics:

- Detention pond design using Rational and TR-55 methods
- Carlson Hydrology workflows and watershed analysis
- Precision 3D Hydro for 3D drainage and storm sewer modeling
- Multi-pond routing, tailwater, and green infrastructure discussions
- Integration between CAD, P3D, and future gamified design tools

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This session was presented by Jennifer DiBona on 11/29/2022.

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# 2022 Virtual Workshops 3-4 – Carlson Software Showcase Desktop Software Round Table Recorded 11/29/2022

This 2022 Virtual Workshop session hosted by That CAD Girl featured Carlson Software experts discussing new features in the 2023 release, customization of toolbars and menus, hydrology and civil design workflows, and user-submitted questions. The interactive session included live demonstrations, troubleshooting, and feature requests for future development.

## Key Topics:

- Carlson 2023 release overview and stability improvements
- Customizing toolbars, menus, and workspaces (CUI management)
- Hydrology and civil design workflows (pipe inverts, automation)
- Retaining wall design tools and feature requests
- Managing external references and images in CAD drawings

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This session was presented by Jennifer DiBona on 11/29/2022.

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# **2022 Virtual Workshops 3-2 – Carlson Software Showcase Field Software Round Table Recorded 11/29/2022**

This 2022 Carlson Virtual Workshop session introduced major updates to Carlson's field software, including new least-squares analysis tools, enhanced reporting, and BIM integration for SurvPC Version 7. Presenters demonstrated real-world workflows for boundary surveys, redundancy checks, and BIM-based stakeout, followed by live Q&A and support tips.

## **Key Topics:**

- SurvPC 7.0 new features and redundancy tools
- Field least-squares analysis and reporting
- BIM model visualization and stakeout
- Web map overlays and NGS benchmark queries
- Carlson Cloud for field-to-office file transfer

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This session was presented by Jennifer DiBona on 11/29/2022.

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# **2022 Virtual Workshops 3-1**

# Carlson Software Showcase

## Overview of Carlson

### Recorded 11/29/2022

This Carlson Software virtual workshop, led by Scott Griffin, introduced users to new and existing features in Carlson 2023, including Drawing Cleanup, Field to Finish utilities, CADnet, and BIM integration. The session emphasized workflow efficiency, data cleanup, and 3D modeling enhancements for surveyors, engineers, and CAD professionals.

#### Key Topics:

- Drawing Cleanup and CAD file optimization
- Field to Finish updates and symbol management
- CADnet tools for PDF and BIM integration
- Wall Polyline Profile Editor and 3D modeling
- Subdivision layout automation and reporting

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This session was presented by Scott Griffin on 11/29/2022.

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## 2022 Virtual Workshops 1-3 – Introduction to CAD

# Recorded 11/15/2022

This virtual workshop session from That CAD Girl's 2022 series provides an in-depth tutorial on CAD line types, line-type scales, and paper-space layout management in Carlson and IntelliCAD. Attendees learned how to create, edit, and manage custom line types, control scaling across model and paper space, and use viewports effectively for plotting.

## Key Topics:

- Creating and editing custom line types (.LIN files)
- Managing line-type scales (LTscale, PSLTscale, Plinegen)
- Using paper space, layouts, and viewports
- Handling text orientation and rotation flags
- Managing layers and visibility across multiple viewports
- Carlson-specific tools and troubleshooting

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

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# 2022 Virtual Workshops 1-2, Introduction to CAD Recorded 11/15/2022

This virtual CAD workshop session covers foundational and intermediate concepts in IntelliCAD and AutoCAD, focusing on layers, properties, symbols, dimension styles, and drawing templates. Par

Participants learned how to manage visibility, organize drawings, create reusable blocks, and apply national CAD standards for consistent project setup.

**Key Topics:**

- Layer management and visibility control
- Properties toolbar and entity editing
- Symbols, blocks, and WBLOCK creation
- Dimension styles and scaling
- National CAD Standards and template setup

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