# 2022 Virtual Workshops Session 4-3: Field to Finish from Start to Finish

## A Virtual Workshop Using Carlson Software – Automate Symbols and Survey Feature Labels

This session from the 2022 Virtual Workshops series covers advanced “Field to Finish” workflows in Carlson Software, led by Doug. The training focuses on coding strategies, symbol rotation, scaling, pipe and tree features and automated labeling techniques for survey drafting efficiency.

**Key Topics:**

- Field to Finish code setup and management
- Special codes (ROT, SZ, RAMP, etc.)
- Multi-point and rotation symbol handling
- Pipe and tree feature configuration
- GIS notes, attributes and formulas
- Field-to-Finish Inspector and troubleshooting

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

*This session was presented by Doug Aaberg on 12/06/2022.*

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# 2022 Virtual Workshops Session 4-2: Field to Finish from Start to Finish

## A Virtual Workshop Using Carlson Software – Master Advanced Field-to-Finish Coding

This session of the 2022 Carlson Virtual Workshops provides an in-depth demonstration of Carlson's Field to Finish tools for survey data processing. The instructor covers code table setup, special codes, templates and workflow optimization for efficient CAD drafting and survey data management.

**Key Topics:**

- Field to Finish code table setup and management
- Special codes (JOG, OFFSET, LTF, PARKING, etc.)
- FLD and F2F file configuration and sharing
- Symbol creation, labeling and layer management
- Use of templates for curbs, steps and parking lines
- Integration with Carlson Serve PC and GIS features

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*This session was presented by Doug Aaberg on 12/06/2022.*

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

## A Virtual Workshop Using Carlson Software – Learn Field-to-Finish Code Table Automation

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.*

# 2022 Virtual Workshops Session 3-6: Carlson Software Showcase Hydrology – P3D Round Table continued

## A Virtual Workshop Using Carlson Software – Refine P3D Stormwater Models and Profiles

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

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

*This session was presented by Bruce Carlson on 11/29/2022.*

# 2022 Virtual Workshops Session 3-5: Carlson Software Showcase Hydrology – P3D Round Table

## A Virtual Workshop Using Carlson Software – Model Storm Networks and Parametric Drainage Designs

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

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

*This session was hosted by Jennifer DiBona with panelists Bruce Carlson, Shan Lu and Mark Long on 11/29/2022.*

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# 2022 Virtual Workshops Session 3-4: Carlson Software Showcase Desktop Software Round Table

## A Virtual Workshop Using Carlson Software – Discuss Carlson Desktop Features and Design Questions

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

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

*This session was hosted by Jennifer DiBona with panelists Scott Griffin, Leonid Entov, Mark Long, Mike Jones and Doug Aaberg on 11/29/2022.*

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# 2022 Virtual Workshops Session 3-2: Carlson Software Showcase Field Software Round Table

## A Virtual Workshop Using Carlson Software – Review Field Data Collection and Staking Tools

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 hosted by Jennifer DiBona with panelists Sarah Winter, John Gerber and Butch Herter on 11/29/2022.*

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# 2022 Virtual Workshops Session 3-1: Carlson Software Showcase Overview of Carlson

## A Virtual Workshop Using Carlson Software – Explore Carlson 2023 Desktop Tools and CAD Workflows

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 Session 1-3: Introduction to CAD

## A Virtual Workshop Using Carlson Software – Learn Custom Linetypes and Paper-Space Layouts

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 Session 1-2: Introduction to CAD

## A Virtual Workshop Using Carlson Software – Learn Layers, Dimensions, Blocks and CAD Standards

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

templates. 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.*