

2022 Virtual Workshops 5-3 – Civil Design in Carlson Software Recorded 12/07/2022

This recorded session from the 2022 Virtual Workshops features Carlson Software's Mark Long demonstrating step-by-step civil design workflows in Carlson Civil and Hydrology. The class covers sanitary-sewer and storm-drain network setup, surface merging, pipe-network editing, and profile design techniques used in real-world subdivision projects.

Key Topics:

- Creating and merging surface models (existing, finished-grade, merged)
- Designing sanitary-sewer networks and setting pipe parameters
- Storm-drain design with hydrology and hydraulic calculations
- Using Carlson's Spreadsheet Sewer Editor and profile-view editing
- Managing automation, slopes, inverts, and crossings
- Workflow philosophy and training plans for future instructional videos

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

This session was presented by Mark Long on 12/07/2022.

2022 Virtual Workshops 5-2 – Civil Design in Carlson Software

Recorded 12/07/2022

This Carlson Software virtual workshop provides an in-depth demonstration of RoadNet for roadway and subdivision design, including surface modeling, template management, intersections, and grading workflows. The session covers practical techniques for widening roads, handling intersections, creating cul-de-sacs, and balancing earthwork using Carlson Civil tools.

Key Topics:

- RoadNet setup and file structure
- Template Point Center Line and Template Series usage
- Intersection grading and profile adjustments
- Super elevation and cul-de-sac design
- Earthwork balancing and volume calculations
- Profile and cross-section generation

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This session was presented by Mark Long on 12/07/2022.

2022 Virtual Workshops 5-1 – Civil Design in Carlson Software Recorded 12/07/2022

This session from the 2022 Virtual Workshops features Mark Long of Carlson Software demonstrating advanced CAD workflows using Carlson's LotNet and RoadNet tools. The training covers efficient subdivision layout, automated lot labeling, setbacks, and roadway design for civil engineering and hydrology applications.

Key Topics:

- Carlson LotNet setup and automation for subdivision design
- RoadNet configuration, templates, and grading workflows
- Surface modeling and triangulation (TIN) creation and validation
- Hydrology preparation and ground-cover planning
- Troubleshooting performance and CAD layer management

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This session was presented by Mark Long on 12/07/2022.

2022 Virtual Workshops 4-3 –

Field to Finish from Start to Finish

Recorded 12/06/2022

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

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

2022 Virtual Workshops 4-2 – Field to Finish from Start to

Finish

Recorded 12/06/2022

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.

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

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

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.

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.

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.

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.