2023 Virtual Workshops: Session #3-3 Overview of Carlson Survey, GIS and Point Cloud

A Virtual Workshop Using Carlson GIS – Collect Survey Attributes with Field Data

This workshop session, led by Carlson Software's Doug Aaberg, provides an in-depth overview of the GIS and Point Cloud capabilities in Carlson Survey. The presentation demonstrates how to integrate GIS data with field-to-finish workflows, manage attribute data and import/export shape files for practical surveying and mapping applications.

Key Topics:

- Carlson GIS module setup and usage
- Field-to-finish integration with GIS attributes
- CRDB vs. CRD coordinate file formats
- Importing and labeling Esri shape files
- Using Serve PC for field data collection
- Managing line labels, monuments and attribute-based symbology

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

This session was presented by Doug Aaberg on 11/29/2023.

2023 Virtual Workshop: Session #3-2 Overview of Carlson and What's New in Carlson 2024

A Virtual Workshop Using Carlson Civil – Create Lots, Roads, Profiles and Sheets

This 2023 Carlson Software virtual workshop, led by Scott Griffin, provides an in-depth demonstration of new and enhanced features in Carlson 2024. The session covers Lot Network, Road Network, Sheet Production, Profile Capture and Parking Network tools, showcasing practical workflows for surveyors, engineers and CAD designers.

Key Topics:

- Lot Network setup and dynamic lot editing
- Road Network design and intersection handling
- Sheet production and profile management
- New Profile Capture command
- Parking Network and 3D design tools

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This session was presented by Scott Griffin on 11/29/2023.

2023 Virtual Workshops: Session #3-1 Overview of Carlson and What’s New in Carlson 2024

A Virtual Workshop Using Carlson Software – Explore What’s New in Carlson 2024

This virtual workshop, led by Scott Griffin and hosted by Jennifer, provided an in-depth overview of Carlson Software’s 2024 updates and practical demonstrations of key CAD and surveying tools. Topics included drawing cleanup, Google Earth integration, PDF import, BIM handling, field-to-finish workflows and point cloud processing.

Key Topics:

- Drawing cleanup and data preparation
- Google Earth and GIS imagery integration
- PDF import and vectorization using CADnet
- BIM and IFC/Revit file handling
- Field-to-Finish enhancements for trees, pipes and labeling
- Point cloud processing and AI-based feature extraction

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This session was presented by Scott Griffin on 11/29/2023.

Working With Sheet Sets

A Virtual Webinar Using IntelliCAD – Learn Sheet Set Automation

This webinar, presented by Travis Maxwell and hosted by That CAD Girl, provides a comprehensive walkthrough of using sheet sets in IntelliCAD. It covers creating a sheet set from existing drawings, sheet numbering and titles with fields and managing project data across drawings with tables, custom drawing properties and a LISP routine to streamline large CAD projects.

Key Topics:

- Creating a sheet set from existing drawings and layouts
- Ordering, numbering and naming sheets
- Sheet set fields for sheet titles and numbers in title blocks
- Managing project data with tables, custom drawing properties and a LISP routine
- Keeping detail sheets and design drawings in separate files
- Publishing multi-sheet PDFs

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This session was presented by Travis Maxwell on 10/27/2023.

The Ultimate Drawing Template

A Virtual Webinar Using CAD – Learn to Build the Ultimate Drawing Template

This webinar, led by Travis Maxwell and hosted by That CAD Girl, provides a comprehensive walkthrough of creating, cleaning and optimizing CAD drawing templates in Carlson Software. It covers best practices for fields, attributes, layers, fonts and scaling to ensure consistency and efficiency across projects.

Although Carlson Software with IntelliCAD was used in this session and a few Carlson-specific commands are shown, the workflows are by and large the same for all AutoCAD or IntelliCAD based programs, and other programs will likely have their own version of those Carlson commands.

Key Topics:

- Building and maintaining CAD drawing templates
- Using fields and block attributes for automation
- Managing fonts, layers and line types
- Cleaning drawings with purge commands
- Implementing National CAD Standards

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This session was presented by Travis Maxwell on 08/08/2024.

Paper Space, Title Blocks & Templates

This webinar, hosted by That CAD Girl, provides a comprehensive walkthrough of using paper space, title blocks and templates in Carlson on IntelliCAD, with notes on how AutoCAD differs. It covers best practices for layouts, title blocks and reusable drawing templates.

2024 Virtual Workshops: Session #4-4 Continuation of Advanced Design with Carlson Civil and Hydrology Presenter: Mark Long

A Virtual Workshop Using Carlson Software – Design Storm Sewer and Hydrology Models

This advanced Carlson Software virtual workshop, led by Mark Long, demonstrates integrated civil and hydrology design

workflows using Carlson Hydrology, Sewer Network and Precision 3D Hydro. Participants learn how to model surfaces, design storm and sanitary systems and visualize drainage networks in 3D for more efficient, accurate engineering.

Key Topics:

- Precision 3D Hydro and Dynamic CAD integration
- Storm drainage and sewer network design in Carlson Hydrology
- Surface modeling, watershed analysis and runoff coefficients
- Pipe sizing, hydraulic grade line (HGL) setup and profile generation
- Utility network creation (water, conduit, laterals)
- Future Carlson Software enhancements (2026 release preview)

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This session was presented by Mark Long on 12/11/2024.

2024 Virtual Workshops: Session #4-3 Advanced Design with Carlson Civil and

Hydrology
Presenter: Mark Long

A Virtual Workshop Using Carlson Software – Design Roads and Subdivisions with Carlson Civil

In this advanced Carlson Software virtual workshop, Mark Long demonstrates time-saving techniques for civil and hydrology design using Carlson Civil and Hydrology modules. The session focuses on efficient subdivision layout, road network design, templates, super elevation and grading transitions to enhance productivity and precision in engineering workflows.

Key Topics:

- Lot Network and Subdivision Layout Tools
- Road Network (RoadNet) Design and Settings
- Template Creation and Management
- Super Elevation and Transition Design
- Grading, Slopes and Stream Impact Minimization

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

This session was presented by Mark Long on 12/11/2024.

2024 Virtual Workshops: Session #4-2 Continuation of Surface Modeling in Carlson Software
Presenter: Jennifer DiBona

A Virtual Workshop Using Carlson Software – Grade Sites with Surfaces and 3D Polylines

This virtual workshop continues the 2024 series on Carlson Software, focusing on surface modeling, pad grading and 3D polyline workflows. Participants learn practical grading techniques, daylight line creation and surface triangulation for real-world site design projects.

Key Topics:

- Pad grading and daylight line creation
- 3D polyline utilities and elevation editing
- Building pad and curb grading workflows
- Surface triangulation, contour generation and volume analy sis
- Cut/fill color mapping and contour cleanup

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This session was presented by Jennifer DiBona on 12/11/2024.

2024 Virtual Workshops: Session #4-1 Surface Modeling in Carlson Software Presenter: Jennifer DiBona

A Virtual Workshop Using Carlson Software – Build Accurate Surface Models

This session from *That CAD Girl's 2024 Virtual Workshop Series* introduces participants to surface modeling and grading workflows in Carlson Software. The training covers building existing ground surfaces, using breaklines, creating 3D polylines, merging surfaces and integrating GIS imagery for visualization.

Key Topics:

- Carlson Software surface modeling fundamentals
- Breaklines, boundaries and triangulation (TIN) creation
- Field-to-Finish automation and 3D polyline generation
- Contour labeling, line-type generation and cleanup
- Importing Google/NASA/USGS surfaces and merging TIN files
- Using GIS imagery and 3D flyovers for visualization

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This session was presented by Jennifer DiBona on 12/11/2024.