Best Practices for Network Solutions with Carlson’s GNSS RTK Systems
Recorded 1/27/2022

This webinar led by Carlson Software’s Doug Hoberg covers best practices for using GNSS and RTK systems in surveying workflows. It focuses on establishing accurate control networks, integrating GPS and EDM data, and performing least-squares adjustments using Carlson SurvNet.

Key Topics:

- GNSS/RTK field procedures and accuracy considerations
- Establishing and verifying control networks
- Using Carlson SurvNet for traverse adjustment and network analysis
- Managing standard errors, redundancy, and blunder detection
- Generating ALTA/NSPS relative positional accuracy (RPA) reports

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

This session was presented by Doug Aaberg on 01/27/2022.

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.

Basics of Annotation in Carlson Software

Recorded on 2/11/2022

This webinar introduces the fundamentals of annotation in Carlson Software, covering text styles, scaling, labeling, and configuration best practices. Attendees learn how to manage annotation consistency across drawings, use Auto Annotate, and customize text styles for professional, readable plans.

Key Topics:

- Text styles and fonts in IntelliCAD and AutoCAD
- Drawing setup and annotation scaling
- Auto Annotate for bearings, distances, and line/curve tables
- Object linking and label updates
- Managing point labels and templates

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This session was presented by Jennifer DiBona on 02/11/2022.

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.

Annotation for Surveyors Recorded on 3/24/2022

This webinar, *Annotation for Surveyors*, presented by Carlson Sof tware’s Doug Oberg, provides a detailed walkthrough of annotatio n 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

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

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 autom

ation
- 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.

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.

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 hyd rology 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 f or 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 modelin g
- Multi-pond routing, tailwater, and green infrastructure discussi ons
- Integration between CAD, P3D, and future gamified design t ools

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