2021 Virtual Workshops Session #4-5: Traverse Adjustment & Best Practices for Network Solutions

A Virtual Workshop Using Carlson Software – Learn Survey Network Adjustment and Annotative Scaling

This session from the 2021 Virtual Workshops series featured Doug from Carlson Software demonstrating advanced survey workflows using Carlson Survey and SurvCE/Carlson CNET. The training covered GPS vector processing, network adjustments, annotative text handling and subdivision design using LotNet.

Key Topics:

- GPS and vector data processing in Carlson CNET
- Network adjustment and chi-square testing
- Annotative text and symbol scaling in CAD drawings
- LotNet for subdivision and parcel layout
- Troubleshooting survey data and configuration migration

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 12/14/2021.

2021 Virtual Workshops Session #4-4: Traverse Adjustment and Best Practices for Network Solutions with Carlson GNSS RTK Systems

A Virtual Workshop Using Carlson Software – Adjust Survey Networks and Verify Control

This virtual workshop session, led by Doug Aaberg and hosted by That CAD Girl, provides a detailed walkthrough of Carlson Survey tools for performing traverse adjustments, compass rule balancing and least squares network adjustments. The presentation includes practical demonstrations using real survey data, focusing on everyday workflows for field and office surveyors.

Key Topics:

- Carlson Survey’s Edit Process Raw and Traverse Adjustment tools
- Compass Rule and Least Squares (SNET) adjustment methods
- Integrating RTK/GNSS data with EDM traverses
- Managing raw files, control points and error tolerances
- Practical field and office workflows for survey accuracy

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This session was presented by Doug Aaberg on 12/14/2021.

2021 Virtual Workshops Session #4-2: Advanced Field to Finish in Carlson Survey (continued)

A Virtual Workshop Using Carlson Software – Automate Trees, Pipes and Survey Linework

This virtual training session continues the Advanced Field-to-Finish workshop led by Doug Aaberg, focusing on Carlson Survey tools for automating legends, tree features and pipe networks. The session demonstrates practical workflows for survey data processing, symbol management and integration with Carlson Hydrology for plan and profile generation.

Key Topics:

- Field-to-Finish legend creation and symbol management
- Tree feature setup and automation
- Pipe feature and sewer network integration
- Carlson Hydrology module usage for plan/profile drawings

- Code table organization and substitution codes

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This session was presented by Doug Aaberg on 12/14/2021.

2021 Virtual Workshops Session #4-1: Advanced Field to Finish in Carlson Survey

A Virtual Workshop Using Carlson Software – Learn Advanced Field-to-Finish Survey Coding

This Carlson Software virtual workshop explores advanced field-to-finish survey coding, demonstrating core tools and settings that help surveyors and CAD professionals develop reliable project workflows. The session covers code table organization, offsets and curves, attributes and labels and practical checks that support consistent model and drawing output.

Key Topics:

- Code Table Organization
- Offsets and Curves
- Attributes and Labels
- Parking and Site Details

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This session was presented by Doug Aaberg on 12/14/2021.

2021 Virtual Workshops Session #3-4: Tips & Tricks for Site Grading

A Virtual Workshop Using Carlson Software – Learn SiteNet Grading, Takeoff and Surface Cleanup

This session from the 2021 Virtual Workshop series provides a detailed, step-by-step demonstration of grading, drawing cleanup and surface modeling techniques in Carlson Civil. It focuses on using LandXML, Civil 3D object imports and the SiteNet/Takeoff tools to create accurate surface models and calculate earthwork and material quantities.

Key Topics:

- Importing and managing LandXML and Civil 3D data
- Drawing cleanup and layer management best practices
- Building existing and design surfaces in SiteNet
- Performing topsoil removal/replacement and material takeoff calculations
- Troubleshooting proxy entities and nested blocks

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

This session was presented by Jennifer DiBona on 12/09/2021.

2021 Virtual Workshops Session #3-3: Making Models from a Mess

A Virtual Workshop Using Carlson Software – Learn Grading and Making Surface Models from a Mess

This 2021 Virtual Workshop session, *Making Models from a Mess*, teaches Carlson Software users how to clean up and prepare messy CAD drawings for accurate surface modeling and grading. The session covers practical workflows for converting 2D linework into 3D data, managing layers and building balanced, constructible surfaces.

Key Topics:

- Converting 2D polylines and contours into 3D surfaces
- Cleaning and organizing CAD layers for modeling
- Grading workflows using Carlson Civil and Takeoff tools
- Handling curb lines, building pads and daylight projections
- Calculating cut/fill volumes and balancing earthwork

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This session was presented by Jennifer DiBona on 12/09/2021.

2021 Virtual Workshops Session #3-2: Site Grading Project from Start to Finish

A Virtual Workshop Using Carlson Software – Learn Site Grading from Start to Finish

This virtual workshop session, led by Jennifer DiBona of That CAD Girl, provides a comprehensive walkthrough of a site grading project using Carlson Civil software. The training covers practical tools and workflows for converting 2D linework into 3D models, managing layers and building accurate grading surfaces from start to finish.

Key Topics:

- Elevating 2D to 3D polylines using Carlson Civil tools
- Layer management and PDH credit tracking
- Site grading workflow: building pads, curbs, slopes and su rfaces
- Managing arcs, vertices and polyline densification
- Creating and refining surface models for design and constr

uction

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This session was presented by Jennifer DiBona on 12/09/2021.

2021 Virtual Workshops Session #3-1: Basics of Surface Modeling in Carlson Software

A Virtual Workshop Using Carlson Software – Learn Building and Troubleshooting Surface Models

This session from That CAD Girl's 2021 Virtual Workshops introduces the fundamentals of surface modeling in Carlson Software. Jennifer DiBona demonstrates how to build, verify and refine surfaces using points, breaklines and public elevation data sources.

Key Topics:

- Building and checking surfaces in Carlson Software
- Using shrink-wrap boundaries, 3D viewer and triangulate & contour tools

- Creating and applying breaklines for accurate terrain models
- Importing and merging public elevation datasets (NED, Google Earth)
- Best practices for contour generation and data exchange (LandXML)

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This session was presented by Jennifer DiBona on 12/09/2021.

2021 Virtual Workshops Session #2-4: Basic Introduction to Carlson Field to Finish

A Virtual Workshop Using Carlson Software – Learn Field-to-Finish Fundamentals

This virtual workshop session provides an in-depth demonstration of Carlson Software's *Field to Finish* feature, showing how to automate point layering, symbol insertion and linework generation from survey data. The session walks through setup, coding and customization of FLD files to streamline survey

drafting and surface modeling workflows.

Key Topics:

- Introduction to Carlson Field to Finish
- Comparison to Land Desktop and Civil 3D description keys
- Setting up and editing FLD code tables
- Layer management and symbol control
- Handling descriptive codes and special characters
- Q&A on tree surveys, point groups and symbol scaling

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

This session was presented by Jennifer DiBona on 12/02/2021.

2021 Virtual Workshops Session #2-3: Survey Project from Start to Finish

A Virtual Workshop Using Carlson Software – Learn Survey Project from Deed Entry to Surface

This session from the 2021 Virtual Workshops walks participants through a complete Carlson Survey project from importing field data and creating boundaries to building surfaces and generating deliverables. Jennifer DiBona demonstrates practical workflows,

data management techniques and visualization tools to streamline survey drafting and analysis.

Key Topics:

- Importing and managing survey point data
- Creating boundaries and deed descriptions
- Using point groups, field-to-finish and surface modeling
- Deed correlation and alignment tools
- Annotation, legends and final sheet preparation

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This session was presented by Jennifer DiBona on 12/02/2021.