

# **2023 Virtual Workshop – Session #4-3 Recorded 12/06/2026**

This virtual Carlson Software workshop demonstrates advanced SiteNet workflows for calculating material and dirt quantities, managing topsoil removal and replacement, and performing drawing cleanup and 2D-to-3D data conversion. The session provides practical guidance for preparing accurate takeoff models and cleaning complex CAD drawings for construction and civil design.

## **Key Topics:**

- Carlson SiteNet volume and material reports
- Topsoil removal and replacement setup
- Surface Inspector and Surface Tools
- 2D-to-3D Polyline conversion methods
- Drawing Cleanup and Layer Management
- LandXML export and machine control files

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

This session was presented by Jennifer DiBona on 12/06/2023.

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# **2023 Virtual Workshop –**

# Session #4-2

**Recorded 12/06/2023**

This virtual workshop, led by Mark Long of Carlson Software, provided an in-depth walkthrough of hydrology and pipe design tools within Carlson Civil and Hydrology modules. The session covered watershed setup, storm drainage design, pipe network creation, and profile management for civil engineering projects.

## Key Topics:

- Hydrology and watershed layer setup
- Storm drainage and pipe network design
- Surface modeling and volume balancing
- Inlet and structure libraries
- Sewer network settings and profile generation

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This session was presented by Mark Long on 12/06/2023.

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# 2023 Virtual Workshop –

## Session #4-1

**Recorded 12/6/2023**

This virtual training session, led by Mark Long from Carlson Software, provides an in-

depth walkthrough of Carlson Civil's RoadNet module for roadway and site design. The class covers setup, surface modeling, templates, intersections, cul-de-sacs, knuckles, and integration with hydrology and grading workflows.

**Key Topics:**

- Carlson RoadNet setup and configuration
- Creating and managing surfaces, templates, and subgrades
- Handling intersections, cul-de-sacs, and knuckles
- Layer discipline and hydrology integration
- Template point centerlines and super elevation design

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This session was presented by Mark Long on 12/06/2023.

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# **2023 Virtual Workshop – Session #3-4 Recorded 11/29/2023**

This Carlson Software virtual workshop, hosted by That CAD Girl, provided an in-depth demonstration of Carlson's Point Cloud module, lidar data integration, and survey data processing workflows. The session concluded with updates on coordinate projection changes in 2024 and practical guidance on raw data editing and GPS processing.

**Key Topics:**

- Point Cloud module setup and lidar data workflows
- Creating and refining surface models (TINs)
- Integrating lidar, Google Earth, and survey data
- Carlson 2024 projection and datum updates (NAD83 2011)
- Edit Process Raw Data and GPS base point handling
- Upcoming improvements in Carlson Serve PC, Serve Net, and GNSS tools

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

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## **2023 Virtual Workshops – Session #3-3>br>Recorded 11/29/2023**

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

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

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# **2023 Virtual Workshop – Session #3-2 Recorded 11/29/23**

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.

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# 2023 Virtual Workshops – Session #3-1 Recorded 11/29/2023

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.

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# 2023 Virtual Workshops Point Clouds, P3D, CPC, etc, Recorded 10/11/23

This internal Carlson Software virtual workshop focused on the Carlson Photo Capture (CPC) and Point Clouds 3D modules, comparing standalone versus cloud processing, hardware requirements, and workflows for drone data. The session also covered product positioning, AI-based feature extraction, and internal coordination on hydrology and engineering modules.

## Key Topics:

- Carlson Photo Capture standalone vs. web-based tiers
- Hardware specs and performance considerations
- Point Cloud Advanced features and AI extraction tools
- Drone data processing workflow (images, GCPs, LAS export)
- Internal engineering and personnel updates

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

This session was presented by Scott Griffin and Jennifer DiBona on 10/11/2023.

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## In-Depth Carlson Takeoff –

# Session 2-3

## Recorded 01/26/2023

This advanced Carlson Takeoff training session walks participants through elevating 2D polylines to 3D, creating grading surfaces, and performing material quantity takeoffs. The instructor demonstrates step-by-step workflows for building pads, sidewalks, curbs, and balancing cut/fill volumes within Carlson Construction Suite.

### Key Topics:

- Elevating 2D to 3D polylines using text, points, and leaders
- Building pad and sidewalk grading workflows
- Managing layers, offsets, and contour cleanup
- Quantity takeoff setup and material reporting
- Balancing cut/fill and generating subgrade surfaces
- Troubleshooting and workflow optimization

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This session was presented by Jennifer DiBona on 01/26/2023.

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# Web Feature Services with Carlson GIS

# Recorded 5/24/2023

This webinar, hosted by That CAD Girl and presented by Travis, provides a detailed walkthrough of using web feature services (WFS) and web map services (WMS) within Carlson GIS. It demonstrates how to access, import, and manage GIS data layers such as FEMA flood maps, USGS topo maps, wetlands, and soils data to create accurate base maps for civil and survey projects.

## Key Topics:

- Accessing and importing web feature and map services in Carlson GIS
- Integrating USGS, FEMA, wetlands, and soils data layers
- Setting coordinate projections and verifying grid alignment
- Using shape files and QGIS for supplemental GIS workflows
- Creating tool palettes for efficient project setup

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*This session was presented by Travis Maxwell on 05/24/2023.*