

# Overview of Carlson Takeoff Recorded 10/30/2020

This webinar provides a comprehensive overview of Carlson Takeoff and the Takeoff Suite, explaining how construction and civil design professionals can use the software for estimating, modeling, and quantity takeoffs. It covers product differences, pricing, module functions, and step-by-step demonstrations of CAD Net, Construction, Geotech, and Trench tools.

## Key Topics:

- Carlson Takeoff vs Civil Suite capabilities
- CAD Net digitizing and PDF vectorization
- Drawing cleanup and elevation tools
- Model building for machine control and quantity reports

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

This session was presented by Jennifer DiBona on 10/30/2020.

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## Drawing Cleanup for Model Building and Construction Staking

# Recorded 11/6/2020

This webinar, hosted by That CAD Girl and presented by Walt Liles of Terrain Technology, provides an in-depth walkthrough of Carlson Software's *Drawing Cleanup* tools for preparing CAD files for construction staking and machine control modeling. The session covers best practices for reducing file size, cleaning DWGs, converting entities, and managing layers to optimize performance in field applications.

## Key Topics:

- Carlson Drawing Cleanup workflow and settings
- File size optimization for GPS and machine control
- Layer management and XREF handling
- Converting Civil 3D and LDD entities into Carlson formats
- Creating and exporting points for layout and staking

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*This session was presented by Walt Liles on 11/06/2020.*

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# Site Grading Tips & Tricks Recorded 12/19/2018

This webinar by That CAD Girl demonstrates practical grading workflows in Carlson Software, covering surface creation, merging, and pad design techniques. It provides step-by-step examples for building, editing, and inspecting TIN surfaces and

grading pads using Carlson Survey, Civil, and Construction modules.

**Key Topics:**

- Creating and merging TIN surfaces
- Using public elevation data (NED/USGS)
- Pad grading and slope projection
- Design Pad Template vs. manual grading
- 3D Polyline and elevation editing tools

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This session was presented by Jennifer DiBona on 12/19/2018.

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# **Making Models from a Mess – Carlson Tools to Elevate 2D Drawings to 3D for staking or surface models**

## **Recorded 10/25/2018**

This webinar, *Making Models from a Mess*, teaches Carlson Software users how to clean up poorly drafted CAD drawings and convert 2D entities into accurate 3D models for staking and surface modeling. It covers essential tools, workflows, and best practices for managing layers, fixing geometry, and elevating polylines to create usable 3D data.

## **Key Topics:**

- Cleaning and organizing messy CAD drawings
- Elevating 2D polylines and contours to 3D
- Managing layers and converting Civil 3D/Land Desktop data
- Using Carlson tools for model building and stakeout preparation
- Handling spot elevations, contours, and building pads

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This session was presented by Jennifer DiBona on 10/25/2018.

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# **2020 Virtual Workshop 3-6 Hot New Features in Carlson 2021 Recorded 12/17/2020.**

This virtual workshop session showcased new and enhanced features in Carlson 2021 software, focusing on Survey, Civil, and CADNet modules. Presenter Scott Griffin demonstrated dynamic point attributes, BIM/Revit file integration, road network improvements, and advanced parking design tools for surveyors and engineers.

## **Key Topics:**

- Dynamic Point Attributes in Survey module
- BIM/Revit file import and manipulation in CADNet
- Road Network enhancements including hammerhead cul-de-sacs
- New Parking Network and design tools
- Handicap and layout customization features

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This session was presented by Scott Griffin on 12/17/2020.

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# **2020 Virtual Workshop 3-8 Utility Network Design in Carlson Hydrology Recorded 12/17/2020.**

This virtual Carlson Software workshop, led by Mark Long, provided an in-depth demonstration of detention pond design, hydrology analysis, and utility network creation within Carlson Civil and Hydrology. The session covered practical workflows, design parameters, and troubleshooting tips for stormwater management and utility modeling.

## **Key Topics:**

- Detention pond design and hydrology setup
- Rainfall data integration and hydrograph generation
- Outlet structure configuration (riser, orifice, weir)
- Utility network creation and pipe crossing management
- Troubleshooting and Q&A with developers

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This session was presented by Mark Long on 12/17/2020.

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# SiteNet & Takeoff Menus In Carlson Civil, Construction & Takeoff

## A Virtual Webinar Using Carlson Software – Learn to Calculate Site Quantities

This webinar provides a detailed walkthrough of surface modeling and material takeoff workflows using Carlson Civil and Construction's SiteNet and Takeoff menus. Jennifer DiBona explains how to prepare clean CAD layers, define surfaces, calculate volumes, and generate material quantity reports for accurate construction estimating.

### Key Topics:

- Layer management and cleanup for surface modeling
- Defining existing and design surfaces in SiteNet
- Setting up subgrade, topsoil, and boundary polylines
- Calculating cut/fill volumes and material quantities
- Visual verification and troubleshooting techniques

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

*This session was presented by Jennifer DiBona on 01/27/2021.*

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# **Project Case Study-Using Carlson Takeoff For Quantities and Surface Modeling**

## **A Virtual Webinar Using Carlson Software – Learn to Calculate Quantities**

This webinar features Ashton Carey of Terrain Technology demonstrating how to use Carlson Takeoff for quantity calculations and surface modeling in a real-world project. The session covers drawing cleanup, layer management, surface creation, and exporting data for machine control applications.

### **Key Topics:**

- Carlson Takeoff workflow for grading and quantity estimation
- Drawing cleanup and layer management in AutoCAD/IntelliCAD
- Creating and verifying existing and proposed surfaces
- Topsoil removal and subgrade adjustments
- Exporting data for machine control (Topcon, Leica)

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

*This session was presented by Ashton Cary on 05/26/2021.*

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# **2020 Virtual Workshops Session 3-7 Sanitary Sewer Design in Carlson Hydrology Recorded 12/17/2020.**

This Carlson Software virtual workshop, led by hydrology expert Mark Long, provides an in-depth walkthrough of storm and sanitary sewer design using Carlson Hydrology tools. The session covers watershed setup, pipe network creation, stormwater management, and integration with CAD surfaces for accurate drainage modeling.

## **Key Topics:**

- Setting up watershed layers and runoff coefficients
- Designing storm sewer networks and detention ponds
- Creating and editing sanitary sewer systems
- Using Carlson Hydrology's network, drainage, and profile tools
- Managing surfaces, rainfall data, and hydraulic grade lines

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This session was presented by Mark Long on 12/17/2020.

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# **2020 Virtual Workshops Session 3-5 Tips & Tricks in CAD & Carlson Software Recorded 12/17/2020.**

This virtual workshop, led by That CAD Girl, covers practical CAD and Carlson Software tips and tricks for surveyors, engineers, and CAD technicians. The session demonstrates workflows for merging raster images, using Field to Finish, managing polylines, cleaning drawings, and creating reusable title block templates.

## **Key Topics:**

- CADNet raster merging and image handling
- Field to Finish setup and automation
- Polyline editing and boundary creation
- Drawing cleanup and block management
- Title block templates and layout management
- Converting spot elevations to Carlson points
- Line type customization and text rotation

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This session was presented by Jennifer DiBona on 12/17/2020.