

# **Customizing Carlson for Erosion Control Permitting and Design – Session 2-3 Recorded 9/21/2023**

This webinar demonstrates advanced techniques for customizing Carlson Software for erosion control, permitting, and design workflows. It covers grading swales, creating stockpiles, managing surfaces, and automating plan set production using sheet sets and data links.

## **Key Topics:**

- Grading and modeling swales and ponds in Carlson Civil
- Surface management and triangulation techniques
- Automating erosion control plan sets with sheet sets
- Linking CAD tables with Excel for dynamic calculations
- Integrating GIS data and slope analysis

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

This session was presented by Travis Maxwell on 09/21/2023.

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# **Customizing Carlson for**

# **Erosion Control Permitting and Design – Session 2-2**

## **Recorded 9/21/2023**

This training session, led by Travis Maxwell, demonstrates advanced customization of Carlson Civil software for erosion control design, permitting, and hydrology workflows. The session covers watershed analysis, surface modeling, pond design, stormwater network setup, and sediment basin sizing techniques.

### **Key Topics:**

- Watershed analysis and surface preparation
- Time of concentration and runoff calculations
- Sediment basin and pond design using Carlson tools
- Storm Net setup and drainage network modeling
- Integration of hydrology and surface data for erosion control

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# **Customizing Carlson for**

# **Erosion Control Permitting & Design – Session 2-1**

## **Recorded 9-21-2023**

This webinar session, led by Travis and moderated by Jennifer, continues training on customizing Carlson Civil Suite for erosion control design. The presentation demonstrates workspace customization, creating line types, setting up base maps, and using GIS and hydrology tools to streamline erosion control workflows.

### **Key Topics:**

- Customizing Carlson Civil Suite workspace and menus
- Creating and managing custom line types and layers
- Building erosion control templates and legends
- Integrating GIS data and base maps
- Setting up sheet sets and map templates

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# **Customizing Carlson for Erosion Control Permitting &**

# Design 1-3

## Recorded 9/19/23

This training session covers advanced Carlson CAD workflows for erosion control and survey cleanup, including Excel-driven macros, layer translation, and automation using scripts and tool palettes. Participants learn how to streamline project setup, manage templates, and integrate GIS and public data into CAD workflows.

### Key Topics:

- Automating CAD notes and blocks using Excel and scripts
- Cleaning and translating survey layers
- Setting up templates, legends, and tool palettes
- Integrating GIS data and public map services
- Handling PDFs, symbols, and block libraries

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This session was presented by Travis Maxwell on 09/19/2023.

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# Customizing Carlson for Erosion Control Design – Session 1-1

# Recorded 09/19/2023.

This webinar introduces advanced customization techniques for Carlson Software's user interface, focusing on erosion control, permitting, and design workflows. Travis demonstrates how to modify menus, toolbars, and workspaces in IntelliCAD to streamline productivity for civil and environmental design professionals.

## Key Topics:

- Customizing Carlson's user interface (CUI)
- Creating and managing workspaces
- Combining modules (Civil, Hydrology, GIS, Survey)
- Editing menus, toolbars, and tool palettes
- Workflow optimization for erosion control design

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This session was presented by Travis Maxwell on 09/19/2023.

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# 2024 Virtual Workshops – Session #4-4 Recorded 12/11/2024

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 effi

cient, 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.

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# **2024 Virtual Workshops – Session #4-3 Recorded 12/11/2024**

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

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

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# **2024 Virtual Workshops – Session #4-2 Recorded 12/11/2024**

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 anal

ysis

- Cut/fill color mapping and contour cleanup

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

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# **2024 Virtual Workshops – Session #4-1 Recorded 12/11/2024**

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

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

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

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# 2024 Virtual Workshops – Session #3-4 Recorded 12/10/2024

This session from That CAD Girl's 2024 Virtual Workshop series features Donnie's in-depth training on Carlson's Least Squares Adjustment tools for survey data analysis. The workshop covers interpreting reports, identifying blunders, understanding statistical tests, and applying best practices for boundary and DOT survey adjustments.

## Key Topics:

- Carlson Least Squares Adjustment fundamentals
- Error analysis and residual interpretation
- Chi-square testing and blunder detection
- ALTA/NSPS accuracy standards
- Practical examples: boundary and DOT survey data

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This session was presented by Donnie Stallings on 12/10/2024.