

# **In Depth Carlson Hydrology with Travis Maxwell 1-1 Recorded 09/07/2022**

This webinar provides a comprehensive introduction to Carlson Hydrology, led by veteran engineer Travis, focusing on setup, work flows, and best practices for stormwater modeling and design. Attendees learn how to configure libraries, manage sewer networks, and apply hydrologic methods such as SCS and Rational within Carlson Software.

## **Key Topics:**

- Carlson Hydrology module overview and setup
- Sewer and storm network configuration
- Use of SCS and Rational methods for runoff and detention
- Inlet libraries, rainfall data, and HydroNet integration
- Best practices for file management and dynamic modeling

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

This session was presented by Travis Maxwell on 11/07/2024.

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## **Beyond the Basics-Advanced Layout and Grading Techniques**

# With Carlson Software Follow Up 1-3 Recorded 08/09/2022

This follow-up training session for *Beyond the Basics: Advanced Layout and Grading Techniques* with Carlson Software dives deeper into SiteNet workflows, pad grading, and dynamic surface modeling. Travis demonstrates practical grading tools, troubleshooting tips, and efficient methods for balancing earthwork and managing contour updates.

## Key Topics:

- SiteNet boundaries vs. areas of interest
- Dynamic contour updates and reprocessing
- Pad Grade workflows and balancing techniques
- Layer management and display settings
- Driveway and surface grading best practices

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This session was presented by Travis Maxwell on 08/09/2022.

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## Beyond the Basics-Advanced

# **Layout and Grading Techniques With Carlson Software 1-2 Recorded 08/03/2022**

This advanced Carlson Software training session demonstrates how to integrate RoadNet, LotNet, and SiteNet for efficient site design, grading, and earthwork balancing. Travis provides step-by-step instruction on creating entrances, managing templates, grading driveways, and dynamically adjusting surfaces for balanced cut/fill results.

## **Key Topics:**

- Integrating RoadNet, LotNet, and SiteNet for coordinated grading
- Creating and editing road and entrance templates
- Dynamic surface editing and balancing earthwork
- Driveway and building pad elevation control
- Using SiteNet for cost estimation and surface management

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This session was presented by Travis Maxwell on 08/03/2022.

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## **Beyond the Basics - Advanced**

# Layout and Grading Techniques With Carlson Software 1-1 Recorded 08/03/2022

This webinar introduces advanced subdivision layout and grading workflows in Carlson Software, focusing on Lot Net, Road Net, and Site Net integration. Attendees learn how to automate residential subdivision design, apply sheet sets, and manage 3D grading for efficient plan production.

## Key Topics:

- Carlson Lot Net, Road Net, and Site Net workflows
- Sheet Set Manager setup and custom fields
- Layer management and naming conventions
- Automated lot subdivision and grading logic
- Road Network intersections, cul-de-sacs, and roundabouts
- Template creation, transitions, and 3D line generation
- Earthwork balancing and site modeling

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This session was presented by Travis Maxwell on 08/03/2022.

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## Site Selection and Feasibility

# Studies Using Carlson Software Session Follow Up 1-3 Recorded 07/19/2022

This follow-up webinar, led by Travis and hosted by That CAD Girl, provided an in-depth demonstration of Carlson Software tools for site selection and feasibility studies. The session focused on residential lot grading, cost estimation, and advanced use of Road Net, Lot Net, and SiteNet modules.

## Key Topics:

- Residential lot grading and elevation setup
- Road Net and Lot Net configuration for subdivisions
- Cost estimation using sewer and utility networks
- Driveway and pad design automation
- Integration of GIS and Google imagery for site modeling

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This session was presented by Travis Maxwell on 07/19/2022.

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## Site Selection and Feasibility

# **Studies Using Carlson Software**

## **Session 1-2**

### **Recorded 7/12/2022**

This training session demonstrates how to perform site selection and feasibility studies using Carlson Software tools. Travis walks through practical workflows for importing GIS and Google Earth data, grading, balancing earthwork, and estimating construction costs for commercial and residential projects.

#### **Key Topics:**

- Importing and aligning GIS and Google Earth data
- Creating and balancing grading surfaces with SiteNet
- Cost estimation using linear, area, and count-based materials
- Setting up residential subdivisions with RoadNet and LotNet
- Managing floodplain, wetlands, and feasibility constraints

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This session was presented by Travis Maxwell on 07/12/2022.

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## **Site Selection and Feasibility**

# Studies Using Carlson Software 1-1

## Recorded 07/12/22

This webinar, led by Travis Maxwell and hosted by That CAD Girl, provides a detailed walkthrough of performing site selection and feasibility studies using Carlson Software. The session demonstrates how to obtain existing site data, analyze flood hazards, calculate earthwork volumes, and create grading models efficiently within Carlson's Civil Suite.

### Key Topics:

- Using Carlson SiteNet for feasibility and earthwork analysis
- Importing and processing Google Earth and GIS data
- Evaluating flood hazard elevations and site grading
- Creating and editing pad grades and boundaries
- Cost estimation and balancing cut/fill volumes

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This session was presented by Travis Maxwell on 07/12/2022.

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# Introduction to Carlson

# Software – Settings Setup Configuration & Points Recorded 1/4/2022

This webinar introduces new and returning users to Carlson Software, focusing on initial setup, configuration, and point management. It covers interface navigation, project folder organization, default settings, and template creation for efficient CAD workflows.

## Key Topics:

- Carlson Software interface and configuration
- Managing project and data folders
- Setting up drawing defaults and templates
- Importing and displaying survey points
- Understanding data vs. settings 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 01/04/2022.*

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## Stormwater Spread Calculations

# using Storm Networks

## Recorded 3/15/2023

This webinar, hosted by That CAD Girl and presented by Travis Maxwell, provides a step-by-step introduction to road design using Carlson Software. It covers essential workflows including drawing setup, creating centerlines, profiles, templates, intersections, and cul-de-sacs for civil design projects.

### Key Topics:

- Carlson drawing setup and coordinate systems
- Creating and managing road centerlines and profiles
- Building and editing templates for pavement, curbs, and grading
- Handling intersections and cul-de-sacs
- Using Google surfaces for preliminary design

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*This session was presented by Travis Maxwell on 03/15/2023.*

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# Surfaces and Breaklines – the

# Basics

## Recorded 2/16/2023

This webinar provides a step-by-step introduction to creating and refining surface models in Carlson Software. It covers essential workflows for checking elevations, defining boundaries, using breaklines, and merging terrain data from multiple sources.

### Key Topics:

- Surface modeling fundamentals in Carlson Survey and Civil
- Using breaklines and shrink-wrap boundaries
- Field-to-Finish automation and non-surface point management
- Importing and merging Google Earth and NED elevation data

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*This session was presented by Jennifer DiBona on 02/16/2023.*