2023 Virtual Workshop: Session #4-2 Overview of Carlson Civil & Hydrology

A Virtual Workshop Using Carlson Hydrology – Design Pipe Networks and Detention Workflows

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

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

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

2023 Virtual Workshop: Session #4-1 Overview of Carlson Civil & Hydrology

A Virtual Workshop Using Carlson Civil – Set Up RoadNet and Civil Design Models

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

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

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

2023 Virtual Workshop: Session #3-4 Overview of Carlson Survey, GIS and Point Cloud

A Virtual Workshop Using Carlson Point Cloud – Work with Public LiDAR Data

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

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

This session was presented by Jennifer DiBona and Doug Aaberg on

11/29/2023.

2023 Virtual Workshops: Session #3-3 Overview of Carlson Survey, GIS and Point Cloud

A Virtual Workshop Using Carlson GIS – Collect Survey Attributes with Field Data

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

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

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

2023 Virtual Workshop: Session #3-2 Overview of Carlson and What's New in Carlson 2024

A Virtual Workshop Using Carlson Civil – Create Lots, Roads, Profiles and Sheets

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

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

This session was presented by Scott Griffin on 11/29/2023.

2023 Virtual Workshops: Session #3-1 Overview of Carlson and What's New in Carlson 2024

A Virtual Workshop Using Carlson Software – Explore What's New in Carlson 2024

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

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

This session was presented by Scott Griffin on 11/29/2023.

In-Depth Carlson Takeoff: Session #2-3

A Virtual Classroom Using Carlson Takeoff – Finish Grading and Material Quantities

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

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

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

Web Feature Services with Carlson GIS

A Virtual Webinar Using Carlson GIS – Learn Web Feature Services

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

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

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

Working With Sheet Sets

A Virtual Webinar Using IntelliCAD – Learn Sheet Set Automation

This webinar, presented by Travis Maxwell and hosted by That CAD Girl, provides a comprehensive walkthrough of using sheet sets in IntelliCAD. It covers creating a sheet set from existing drawings, sheet numbering and titles with fields and managing project data across drawings with tables, custom drawing properties and a LISP routine to streamline large CAD projects.

Key Topics:

- Creating a sheet set from existing drawings and layouts

- Ordering, numbering and naming sheets
- Sheet set fields for sheet titles and numbers in title blocks
- Managing project data with tables, custom drawing properties and a LISP routine
- Keeping detail sheets and design drawings in separate files
- Publishing multi-sheet PDFs

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

This session was presented by Travis Maxwell on 10/27/2023.

In-Depth Carlson Takeoff: Session #2-2

A Virtual Classroom Using Carlson Takeoff – Define Materials for Takeoff Quantity Reports

This in-depth Carlson Takeoff training session guides users through advanced layer management, surface modeling and material quantity calculations. The webinar demonstrates how to clean CAD files, assign layers, build surfaces and calculate cut/fill volumes and topsoil adjustments for accurate takeoff reporting.

Key Topics:

- Carlson Takeoff layer-based workflow and TRG file management
- Cleaning and organizing CAD layers for modeling
- Building existing and design surfaces
- Subgrade and topsoil removal/replacement calculations
- Exporting LandXML and TIN files for machine control

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