

2016 Virtual Classroom – Civil & Hydrology Virtual Workshop – Session 4

Recorded 05/24/2016

This session of the Civil & Hydrology Virtual Workshop, led by Scott Griffin, provides an in-depth demonstration of Carlson Software's Lot Network (Lot Net) tools for subdivision layout and design. The webinar covers lot creation, cleanup utilities, labeling, setbacks, building placement, reporting, and integration with Google Earth and other Carlson modules.

Key Topics:

- Lot Network (Lot Net) setup and configuration
- Cleaning up subdivision linework
- Subdividing areas and adjusting lot geometry
- Labeling, setbacks, and building placement
- Generating reports, exporting data, and Google Earth integration

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This session was presented by Scott Griffin on 05/24/2016.

Using Carlson Hydrology for Storm Drain Design

A Virtual Webinar Using Carlson Software – Learn to Design Storm Drains

This webinar provides a detailed walkthrough of storm drain design using Carlson Hydrology. Mark Long demonstrates how to set up networks, define watershed parameters, size pipes, and create plan and profile drawings within Carlson Software.

Key Topics:

- Carlson Hydrology interface and setup
- Watershed and drainage area calculations
- Storm and sanitary sewer network creation
- Pipe sizing, slopes, and hydraulic grade line design
- Drawing plan and profile views with labeling and crossings

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This session was presented by Mark Long on 05/13/2021.

Using Carlson Hydrology for Sanitary and Utility Design

A Virtual Webinar Using Carlson Software – Learn to Design Sanitary Sewer Networks

This webinar demonstrates how to use Carlson Hydrology for sanitary sewer and utility network design. Mark Long walks through setting up sewer network parameters, creating SEW files, importing polylines, and managing profiles and laterals for efficient civil design workflows.

Key Topics:

- Setting up sanitary sewer and utility networks in Carlson Hydrology
- Sewer network settings, parameters, and design criteria
- Importing 2D polylines to create networks
- Editing profiles, slopes, and manholes
- Creating and managing laterals and cleanouts

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This session was presented by [speaker(s)] on 07/08/2021.

Using Carlson Hydrology for Detention Pond Design

A Virtual Webinar Using Carlson Software – Learn to Improve Hydrology Workflows

This webinar, hosted by That CAD Girl and presented by Mark Long, provides a detailed walkthrough of using Carlson Hydrology software for detention pond design. It covers watershed setup, surface modeling, stormwater calculations, and pond sizing workflows within Carlson Civil.

Key Topics:

- Setting up watershed layers and ground covers
- Pre- and post-construction surface modeling
- Detention pond sizing and stage-storage calculations
- Creating outlet devices and hydrographs
- Generating reports and design documentation

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This session was presented by Mark Long on 6/10/2021.

Using Carlson GIS for Base Mapping

A Virtual Webinar Using Carlson Software – Learn to Manage Site Models

This webinar demonstrates how to use Carlson GIS tools for creating survey base maps by integrating publicly available GIS, LiDAR, and imagery data. Doug Aaberg walks through importing shape files, labeling parcels, adding contours, and overlaying aerial imagery to produce accurate, data-rich base plans.

Key Topics:

- Importing and managing GIS shape files
- Creating and labeling parcel base maps
- Integrating LiDAR, contour, and imagery data

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This session was presented by Doug Aaberg on 05/27/2021.

Tips & Tricks to Recover Corrupt Drawings

A Virtual Webinar Using AutoCAD, IntelliCAD and Carlson Software – Learn to Recover Corrupt Drawings

This webinar by That CAD Girl provides practical guidance on recovering and repairing corrupt DWG files using AutoCAD, IntelliCAD, and Carlson Software tools. It covers essential commands, troubleshooting workflows, and Autodesk utilities to restore damaged drawings efficiently.

Key Topics:

- Using PURGE, AUDIT, and WBLOCK commands to clean drawings
- Recovering inaccessible DWG files with RECOVER and RECOVER ALL
- Leveraging DWG TrueView and DWG Convert for file repair and version conversion
- Handling Civil 3D files and registered applications
- Managing layouts and Xrefs during recovery

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This session was presented by Jennifer DiBona on 02/09/2021.

Survey Project from Field to Plotted Sheet

A Virtual Webinar Using Carlson Software – Learn to Complete Survey Workflows

This webinar demonstrates a complete Carlson Survey workflow, showing how to take raw field data through coordinate file creation, deed entry, surface modeling, and final sheet plotting. It covers practical commands, configuration tips, and troubleshooting steps for surveyors using Carlson 2020/2021 on IntelliCAD.

Key Topics:

- Carlson configuration and project setup
- Importing and managing point data (CRD files)
- Deed entry, correlation, and legal description tools
- Field-to-Finish automation and surface creation
- Plotting, labeling, and sheet preparation

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This session was presented by Jennifer DiBona on 01/12/2021.

Surfaces and Breaklines – the Basics

A Virtual Webinar Using Carlson Software – Learn to Build Accurate Surfaces

This webinar introduces the foundational concepts of surface modeling and breaklines in Carlson Civil and Takeoff. It covers how to prepare data, build accurate surfaces, use breaklines effectively, and avoid common pitfalls when working with contours and triangulated irregular networks (TINs).

Key Topics:

- Surface modeling fundamentals in Carlson Civil/Takeoff
- Using 3D Viewer and Shrink Wrap Entities
- Managing non-surface points and breaklines
- Field-to-Finish automation
- Combining and exporting surface data

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This session was presented by Jennifer DiBona on 01/19/2021.

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

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

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)

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