

AutoCAD and Civil 3D 2022

Checklist of New Features from 2020 to 2022

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Introduction

Autodesk continues to update their products and release new versions on a yearly cycle. For this reason, there have been many new features added to both AutoCAD and Civil 3D between the 2020 release and the 2022 release. This document provides a list of those new features broken down by product and version.

AutoCAD 2021 and 2022 New Features

The following new features were added to the base AutoCAD program in either 2021 or 2022.

AutoCAD 2021

- Quick Mode for Trim and Extend in which all linework in the drawing is immediately considered a boundary without the need for selection.
- Break Objects at a single point with new “BREAKATPOINT” command.
- Quick Measure enhancement that allows for automatic area and perimeter when the user clicks inside of a closed area.
- Drawing History and Compare when drawings are stored in cloud services such as Dropbox, OneDrive, or Box.
- Enhanced Revision Cloud in which a single value for arc length can be adjusted easily through the Properties Palette.
- XREF Compare that allows a user to review the changes that occurred when a modified XREF is reloaded.
- Block Palette enhancements for synching favorites, saving recent blocks in selected locations, and easily accessing block libraries.
- Improved 2D graphics performance and speed.

AutoCAD 2022

- Object Counts and Count Tables
- Floating Drawing Windows
- “My Insights” data and information provided on Start tab based on tracked usage of the product.
- Sharing the current drawing for viewing or editing on the AutoCAD web app.
- New, faster installer.

Civil 3D 2021 and 2022 New Features

Civil 3D 2021

- Pressure Pipe Runs and paths for more efficient layout and editing
- Automatic creation of Alignments from Pressure Networks
- Automatic placement of tees and crosses when pipe runs cross
- Pressure Pipe Run Profile following (Surface or design).
- Corridor Interoperability with Infraworks
- Bridge functionality and Interoperability with Infraworks
- Publish to ArcGIS and Export to FGDB allow for output of object properties to attribute information.
- Feature Line Editing Enhancements

Civil 3D 2022

- Create Pressure Parts Lists using more than one Pressure Part Catalog at a time.
- Override cover for Pressure Networks from Profile along specific station ranges.
- Gravity and Pressure Network label expressions can now be used in Profile View bands.
- Add, move, delete Pressure vertical bends and PVIs in Pipe Run Profiles
- Enhanced Connected Alignment functionality (Compound Curves and spirals, 3-centered arcs, set Degree of Curvature, etc.)
- Grading Optimization tool for more interactive and efficient grading of large sites (AEC Collection Only)
- Project Explorer for managing large amounts of information and data in a Civil 3D project.