

Release Comparison Matrix

LEGEND

- ✓ Supported Feature
- ENHANCED** Enhanced Feature
- NEW** New Feature

	2010	2011	2012
USABILITY			
Application Menu	NEW	✓	✓
New User Interface	NEW	✓	✓
Context Specific User Interface Tabs	NEW	✓	✓
Menu Tooltips	NEW	✓	✓
Zoom to Point		NEW	✓
64-bit Version		NEW	✓
Wizard Driven Point Import			NEW
MULTIUSER PROJECT ENVIRONMENT			
Multiuser Project Environment	ENHANCED	✓	✓
Labeling Through Xref	✓	✓	✓
Civil 3D Project Integration Within Autodesk® Vault Collaboration AEC*		✓	ENHANCED
Multidiscipline Project Team Support via Autodesk Vault Collaboration AEC*			NEW
STYLES AND SETTINGS MANAGEMENT			
Import Styles	✓	✓	ENHANCED
Import Settings	✓	✓	ENHANCED
Replace Styles			NEW
Purge Styles			NEW
Find Styles in Use			NEW

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PLAN PRODUCTION AND PRODUCTION DRAFTING			
Customized Object Styles	ENHANCED	ENHANCED	✓
Customized Label Styles	ENHANCED	ENHANCED	✓
Cross Section Sheet Styles	✓	ENHANCED	✓
Cross Section Sheet Labels	✓	ENHANCED	✓
Cross Section Object Projection	NEW	ENHANCED	✓
Profile Hatching	NEW	✓	✓
Profile Object Projection	NEW	✓	✓
Profile and Section Band Label Grips	NEW	✓	✓
Create Section Sheets Wizard		NEW	✓
Rotate Label Independent of Marker			NEW
Maximum Label Width Control			NEW
Autodesk Vault Collaboration AEC Integration with Sheet Set Manager*			NEW
SURVEY			
Translate Survey Database	✓	✓	✓
Survey Figure Creation	✓	ENHANCED	✓
Create and Transform Custom Coordinate Systems	ENHANCED	ENHANCED	ENHANCED
Data Connection Link	ENHANCED	✓	✓
Automatic Linework from Points and Linework Code Sets	NEW	✓	✓
Survey Data Wizard	NEW	✓	✓
Edit Survey Figure Vertices		NEW	✓
Point File Format with User-Defined Properties		NEW	✓
Survey Change Report		NEW	✓
COGO Editor			NEW
Support for 2-Point Curve Linework Coding			NEW
POINT CLOUDS			
Point Cloud Object		NEW	ENHANCED
Point Cloud Analysis and Visualization		NEW	✓
Creating Surfaces from Point Clouds		NEW	✓

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SURFACES			
Reorder Surface Operations	✓	✓	✓
Simplify Surface	✓	✓	✓
Finding and Resolving Crossing Breaklines		NEW	✓
Create Surface From GIS Data		NEW	✓
Crop Surfaces		NEW	✓
Level of Detail Surface Viewing			NEW
Automated Display of Surface Volume Bands			NEW
PARCELS			
Automatic Parcel Sizing Tools Based on Frontage from an Offset	NEW	✓	✓
Temporary Layout Graphics	NEW	✓	✓
GEOSPATIAL ANALYSIS			
Topology (Drawing Objects)	✓	ENHANCED	✓
Buffering	✓	✓	✓
Overlay (Features)	NEW	✓	✓
ALIGNMENTS AND PROFILES			
Tangents, Curves, Spirals	ENHANCED	ENHANCED	ENHANCED
Alignment Types (Centerline, Offset, Curb Return, Miscellaneous)	NEW	✓	✓
Dynamic Offset Alignments and Widening	NEW	ENHANCED	✓
Alignment Masks	NEW	✓	✓
Profile Locking	NEW	✓	✓
Extending Profile Tangents to PVI		NEW	✓
Best Fit Alignment and Profile		NEW	✓
Create Alignment from Existing Alignment		NEW	✓
Maintain Alignment Constraints with LandXML Import			NEW
Swap Alignment Design Constraints			NEW

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SUPERELEVATION			
Superelevation-Subassembly Integration	✓	✓	ENHANCED
Shoulder Rollover Integration	✓	ENHANCED	ENHANCED
Axis of Rotation Options	✓	ENHANCED	ENHANCED
Import Superelevation from CSV		NEW	✓
Dynamic Graphical Editing of Superelevation Transitions		NEW	✓
Copy Superelevation Parameters from One Lane to Another			NEW
CORRIDOR MODELING			
Automatic Surface Boundary Creation for Multiple Baseline Corridor	NEW	✓	✓
QTO Pay Items for Corridor Feature Lines and Links	NEW	✓	✓
Creation and Editing of Corridors via Visual Interaction	NEW	ENHANCED	ENHANCED
Multiple Baseline Corridor Viewing and Editing			NEW
Interactive Editing of Corridor in Plan, Profile, and Section Simultaneously			NEW
INTERSECTION MODELING AND ROUNDABOUT LAYOUT			
Intersection Object	NEW	✓	✓
Automatic Creation of Intersection Corridor Regions and Targets	NEW	✓	✓
2D Layout Design Tool for Roundabouts		NEW	✓
SECTIONS AND SECTION VIEWS			
Wizard-Driven Generation of Layouts for Plotting Cross Section		NEW	✓
Project Objects to Multiple Plotted Sections		NEW	✓
Section and Volume Extraction for Intersections			NEW
Multiple Corridor Baseline Section Views			NEW
Support for Corridor Data at Skewed or Angled Sections			NEW

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PIPE NETWORKS			
Pipe Networks Pipe Catalog	ENHANCED	ENHANCED	ENHANCED
QTO Pay Items Built into Pipe Network	NEW	✓	✓
Pipe Network from Polyline		NEW	✓
Pipe Network Join and Break		NEW	✓
Import Pipes from GIS Data			NEW
WATER ANALYSIS			
Pipe Network Interoperability with Autodesk® Storm and Sanitary Analysis 2012 Software		NEW	ENHANCED
Autodesk Storm and Sanitary Analysis 2012 Software Integrated into the Standard Installation as an Optional Component			NEW
Drainage Catchment Area Object with Time of Concentration Property			NEW
Automatic Civil 3D Model Underlay in Autodesk Storm and Sanitary Analysis 2012 Software			NEW
VISIBILITY CHECKS			
Drive Tool		NEW	✓
Line-of-Sight Tools		NEW	✓
Integrated Export to Civil View for Autodesk® 3ds Max® Design 2012			NEW
DATA INTEROPERABILITY			
Import DGN	✓	ENHANCED	ENHANCED
Export DGN	✓	ENHANCED	ENHANCED
Direct Read/Write of GIS Data with Feature Data Objects (FDO) Data Provider Integration	✓	ENHANCED	ENHANCED
Import and Export GIS Files (for example, SHP, SDF, TAB, GML, SDTS)	ENHANCED	✓	✓
PDF Export	ENHANCED	✓	✓
Google Earth™ Mapping Service Image and Data Import	ENHANCED	✓	✓
PDF Underlay	NEW	✓	✓
Import of Autodesk® Revit® Building Model	NEW	✓	✓
Copy Elements from DGN Underlay		NEW	✓

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QUANTITY TAKEOFF			
Quantity Takeoff Manager	NEW	✓	✓
Pay Item Assignment to Drawing Objects	NEW	✓	✓
Quantity Takeoff Reports	NEW	✓	✓
Pay Item Assignment to Corridors and Pipe Networks	NEW	ENHANCED	✓

*Autodesk Vault Collaboration AEC 2012 software is available as a separate purchase and installation for customers with AutoCAD Civil 3D 2012 software who want a more comprehensive data management solution

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