

## AutoCAD® Civil 3D 2010

## Release Comparison Matrix

## LEGEND

✓ Feature supported

\* New feature

★ Improved feature

	2006	2007	2008	2009	2010
<b>USEABILITY</b>					
Application Menu					*
Ribbon					*
Context Specific Ribbon Tabs					*
Quick Access Toolbar					*
Menu Tooltips				*	★
Object Tooltips	✓	✓	✓	★	★
Wizards with Illustrative Graphics		*	★	★	★
Simplified Commands			*	★	★
<b>MULTIUSER PROJECT ENVIRONMENT</b>					
XREF	✓	✓	✓	✓	✓
Data Shortcuts	*	✓	★	★	★
Autodesk® Vault		*	✓	✓	✓
Corridor Sections through XREF			*	✓	✓
Labeling Through XREF				*	✓
<b>PLAN PRODUCTION</b>					
Sheet Set Manager	✓	✓	✓	✓	✓
Map Books	✓	✓	✓	✓	✓
Plan Production Wizard			*	✓	✓
<b>PRODUCTON DRAFTING</b>					
Customizable Object Styles	✓	★	★	★	★
Customizable Label Styles	✓	★	★	★	★
Contour Labeling	✓	✓	★	✓	★
Label Leaders	✓	✓	✓	★	★
Label Expressions		*	✓	✓	✓
Reference Text		*	✓	✓	✓
Profile Hatching					*
Profile Object Projection					*
Profile Band Label Grips					*
Profile and Profile View Staggered Labels					*
Section Object Projection					*
Section Band Label Grips					*
Section and Section View Staggered Labels					*

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<b>SURVEY</b>					
Map Check	✓	✓	✓	★	✓
Survey Toolspace		*	★	★	★
Lines and Curves Tools			*	✓	✓
Automatic Linework from Fieldbook		✓	✓	✓	★
Automatic Linework from Points and Linework Code Sets					*
Translate Survey Database				*	✓
Data Connection Link				*	★
Survey Data Wizard					*
<b>SURFACES</b>					
Surface Data from Block Attributes			*	✓	✓
Move AutoCAD Text to an Elevation			*	✓	✓
Project Blocks onto a Surface			*	✓	✓
Extract Objects from Surface			*	✓	★
Import DEM from a GeoTIFF			*	✓	✓
Drape Image			*	✓	✓
Reorder Surface Operations				*	✓
Simplify Surface				*	✓
Surface Volume Correction				*	✓
Data Clip Boundary				*	✓
<b>PARCELS</b>					
User Defined Properties	*	✓	✓	✓	✓
Automatic Parcel Sizing Tools based on frontage	✓	✓	✓	✓	✓
Automatic Parcel Sizing Tools based on frontage from an offset					*
Temporary Layout Graphics					*
<b>ALIGNMENTS</b>					
Tangents, Curves and Spirals	✓	✓	★	★	★
Siteless Alignments			*	✓	★
Labels Reference Multiple Alignments			*	✓	✓
Labels Reference Surfaces and Profiles		*	✓	✓	✓
Best Fit Entities				*	✓
Criteria Based Design				*	✓
Design Checks				*	✓

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Alignment Types (Centerline, Offset, Curb Return, Utility)					*
Dynamic Offset Alignments and Widening					*
Alignment Masks					*
<b>PROFILES AND PROFILE VIEWS</b>					
Profile View Buffer	*	✓	✓	✓	✓
Data Bands	✓	★	✓	✓	★
Use of PLINEGEN for Profile linetypes	*	✓	✓	✓	✓
Element Based Vertical Geometry			*	✓	✓
Quick Profiles			*	✓	✓
Criteria Based Design				*	✓
Design Checks				*	✓
Profile Locking					*
Best Fit Entities				*	✓
<b>CORRIDOR MODELING</b>					
Use Alignments and/or Profiles as Targets	✓	✓	✓	✓	✓
Use Survey Figures, Feature Lines and/or Polylines as Targets				*	✓
View/Edit Corridor Section	✓	✓	✓	★	★
Extract static alignments, profiles, polylines and/or feature lines	✓	✓	✓	✓	✓
Extract dynamic alignments, profiles, polylines and/or feature lines				*	✓
Copy/move/mirror subassemblies				*	✓
Assembly sharing				*	✓
Enhanced Corridor Properties dialog			*	★	★
Enhanced Region editing			*	★	★
Automatic Surface Boundary Creation for Single Baseline Corridor	✓	✓	✓	✓	✓
Automatic Surface Boundary Creation for Multiple Baseline Corridor					*
Interactive Boundary			*	✓	✓
Render material assignment in Code Set Styles			*	✓	✓
Hatching assignment in Code Set Styles			*	✓	✓
QTO Pay Items for Corridor Feature Lines and Links					*
Section overrides	✓	✓	✓	★	★
<b>INTERSECTION MODELING</b>					
Intersection Object					*
Automatic creation of corridor regions and targets					*

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<b>SECTIONS AND SECTION VIEWS</b>					
Grip Edit Sample Lines	*	✓	✓	✓	✓
Section Volume Tables			*	✓	✓
Enhanced Group Plot Style			*	★	✓
Section View Wizard				*	✓
Mass Haul Diagrams				*	✓
<b>GRADING</b>					
Grading Objects	✓	✓	✓	✓	✓
Grading Object Daylighting		*	✓	✓	✓
Create and Edit Feature Lines		*	★	★	★
Feature lines in Prospector				*	✓
Feature line names				*	✓
<b>PIPE NETWORKS</b>					
Cylindrical and Rectangular Structures	*	✓	✓	✓	✓
Rectangular Headwalls	*	✓	✓	✓	✓
Flared End Sections and Winged Headwalls					*
Pipe Spanning Labels			*	✓	✓
Pipe End Clean Up			*	✓	✓
Concrete, PVC and Ductile Iron Pipe	*	✓	✓	✓	✓
HDPE, Corrugated HDPE, and Corrugated Metal Pipe					*
Round, Egg-Shaped and Rectangular Pipe	*	✓	✓	✓	✓
Arch Pipe					*
Create Pipe Network from Object		*	✓	✓	✓
Pipe and Structure Tables			*	✓	✓
Create an Alignment from Pipe Network		*	✓	✓	✓
Part Builder		*	✓	✓	✓
Pipe Interference Detection		*	✓	✓	✓
QTO Pay Items built into Pipe Network					*
<b>HYDRAULICS AND HYDROLOGY</b>					
Hydraflow Extensions				*	✓
Hydraflow Extensions Incorporated into Civil 3D User Interface					*
Imperial Units Supported				✓	✓

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Metric Units Supported					*
Hydraulic and Energy Grade Lines in Profile View					*
Import and Update Pipe Network in Civil 3D					*
Export Pipe Network to Storm Sewers					*
Automatic Part Mapping between Storm Sewers and Civil 3D					*
<b>DATA INTEROPERABILITY AND MIGRATION</b>					
Revit Building Model					*
Google Earth Image Import		*	★	★	★
Google Earth Surface Import			*	✓	✓
Google Earth Grid Import					*
Publish Model to Google Earth			*	✓	✓
Import/Export LandXML	✓	★	★	★	★
Import/Export DEM			*	✓	✓
Publish Model to SDF			*	✓	✓
Open/export and underlay MicroStation® DGN format drawings			*	✓	✓
Publish Model to DWF and 3D DWF	*	★	★	★	★
<b>QUANTITY TAKEOFF</b>					
Quantity Takeoff Manager					*
Pay Item Assignment to drawing objects					*
Pay Item Assignment to Corridors and Pipe Networks					*
Quantity Takeoff Reports					*
Pay Item Formulas					*