

# Civil Synopsis

## Groundbreakers Civil 3D User Group (GBUG)

December 11, 2008

Thanks to everyone for joining us! It was great to have Jerry Bartels with Autodesk here and show us an overview of Map 3D and advanced styles in Civil 3D. The following people attended...

<b>Company Name</b>	<b>First Name</b>	<b>Last Name</b>
American Water	David	Patrick
American Water	Lance	Thompson
American Water	Ken	Mortimer
Benham Companies LLC	Fran	Randolph
Benham Companies LLC	Jeremy	McMillen
BIS Fru-Con Engineering	Jeffrey	McCourt
CDG Engineers Architects Planners Inc.	Terry	Entwistle
CDG Engineers Architects Planners Inc.	Andy	Worfler
Civil & Environmental Consultants Inc.	Paul	Mertz
Civil & Environmental Consultants Inc.	Cynthia	Colthorp
Dave Derosse	Dave	Derosse
Gonzalez Companies LLC	Cindy	Bednara
HBE Corporation	Jim	Sander
HBE Corporation	Terry	Reed
Heneghan & Associates	Josh	Stumpe
Metropolitan St. Louis Sewer District	Roger	Shaw
Nooter/Eriksen	Marianna	Tripp
Pickett Ray & Silver Inc	Brad	Temme
Wind Engineering	Michael	Grzovic

The meeting started off with Jerry explaining the differences between Civil and Civil 3D. Civil is missing all the bells and whistles. Here is a breakdown of the features...

	AutoCAD Civil	AutoCAD Civil 3D
<b>Description and Target User</b>	Design and construction documentation for civil engineering technicians, drafters, and surveyors.	A more comprehensive solution that adds analysis and simulation capabilities for the civil engineer and designer.
<b>Drafting and Documentation</b>	<ul style="list-style-type: none"> <li>Plan production and drafting</li> <li>Drafting styles and standards</li> <li>Reporting</li> </ul>	Same as AutoCAD Civil
<b>Design</b>	<ul style="list-style-type: none"> <li>Surfaces and grading</li> <li>Parcels</li> <li>Corridor modeling and road design</li> <li>Pipe layout</li> </ul>	Same as AutoCAD Civil
<b>Surveying &amp; Coordinate Systems</b>	<ul style="list-style-type: none"> <li>Import raw survey data</li> <li>Traverse and least squares adjustment</li> <li>Survey figures</li> <li>COGO</li> <li>Coordinate system setting and transformations</li> <li>Survey database</li> </ul>	Same as AutoCAD Civil
<b>Data Management and Team Coordination</b>	<ul style="list-style-type: none"> <li>Data shortcuts and xrefs</li> <li>Advanced data management with Autodesk Vault (included)</li> </ul>	Same as AutoCAD Civil
<b>Data Exchange and Interoperability</b>	DGN, LandXML, Google Earth™, and SDF	Same as AutoCAD Civil + GIS and raster data formats including ESRI SHP, TIF, and more
<b>Stormwater Analysis and Simulation</b>	No	Stormwater analysis and simulation with Hydraflow Storm Sewers Extension, Hydraflow Hydrographs Extension, and Hydraflow Express Extension
<b>Geospatial Analysis and Mapping</b>	No	Includes geospatial analysis and mapping functionality from AutoCAD® Map 3D
<b>Land Desktop Project Support</b>	Import/Export only	Includes AutoCAD® Civil 3D® – Land Desktop Companion (available as subscription download only)

Jerry's outline was as follows...

- Map 3D/Geospatial Tools
  - Drawing Cleanup
  - FDO
- Style Creation
  - Reference Text
  - Construction Lines

Jerry displayed the Map clean up tool and showed how easily it is used to clean up drawings.

During the FDO (Feature Data Objects) discussion, Jerry explained how to collect geospatial data.

Bringing in parcels was covered also.

Jerry covered Styles which includes advanced set up of objects, labels and tables. When putting in text, turn the marker on to see the names. Always put your initials before your styles to make them unique and easily accessible.

He also covered Reference Text which is text referenced to an object.

The following additional items were discussed...

- Can you show parcels that cross rail road tracks? This can be done using FDO or in a reporting map.
- Jerry demonstrated loading soil files into Map.
- There are 57 color shades available for mapping. Fills and labels can also be used.
- Raster Images can be brought in as x-refs.

Here is info on the next meeting...



Thursday, March 5, 2009

***“Feature Lines and Grading”***

Brett Settles, Hagerman & Company, Inc. Solution Engineer, will use feature lines in three different ways. First, explaining general feature line operation, then moving to grading criteria and finally extracting feature lines from civil objects.

Thanks again to our GBUG co-chairs for providing such great leadership and ideas to the group!

The committee met and came up with some great topics for 2009! Here’s the GBUG webpage with future events listed...

[http://www.hagerman.com/Upcoming\\_Events/UG\\_Civil3DStL.asp](http://www.hagerman.com/Upcoming_Events/UG_Civil3DStL.asp)

## Groundbreakers Civil 3D User Group Co-Chairs

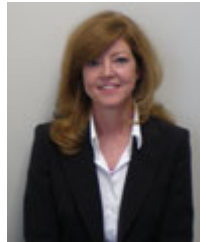


**Daniel Hull**

Civil CAD Technician

[BIS Fru-Con Engineering](#)

[bio](#)



**Cynthia Colthorp**

CAD Manager

[Civil & Environmental Consultants Inc.](#)

[bio](#)

Please let Tracy ([tracyfisher@hagerman.com](mailto:tracyfisher@hagerman.com)) or Amy ([amyameling@hagerman.com](mailto:amyameling@hagerman.com)) know if you have comments or suggestions. Feel free to bring anything to **show n share** or provide us with **classified ads** you would like to go to all GBUG members.

**Please let everyone know about the group.** The more the merrier!