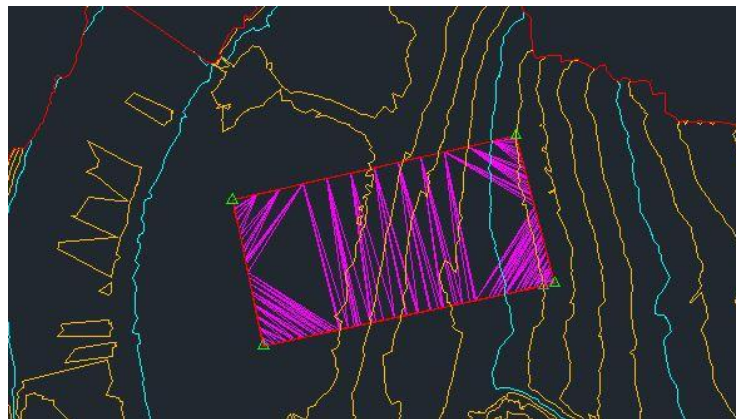


3D Solids from AutoCAD Civil 3D Surfaces

AutoCAD Civil 3D 2014

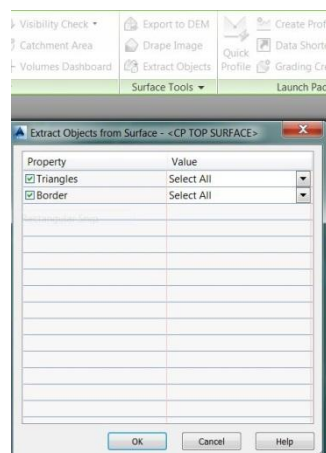
At times I have found it quite frustrating to use my designed AutoCAD Civil 3D surfaces in a collaborative way especially when using within Autodesk Navisworks and its associated tools, Wes Newman at Autodesk has come up with a workflow to convert to AutoCAD solids that works really well therefor making it easier to use outside of Civil 3D

First of all create all your surfaces in the normal way and display as triangles

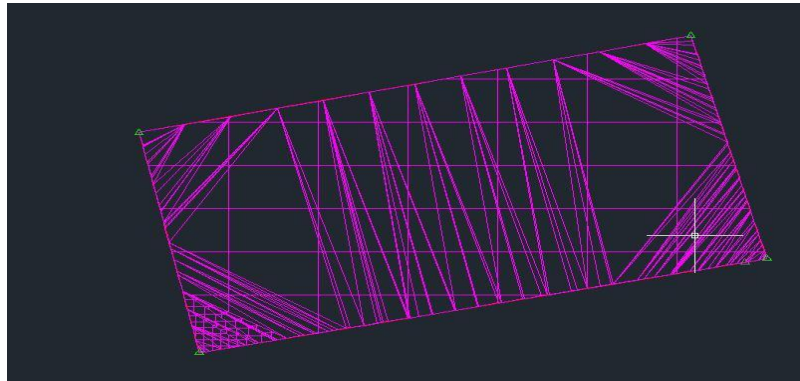


You can then use the extract tools that are available from the Surface Contextual Ribbon, Surface Tools panel.

Once I have done this I hide the boundary so that i am just left with the extracted triangles displaying in the model space.

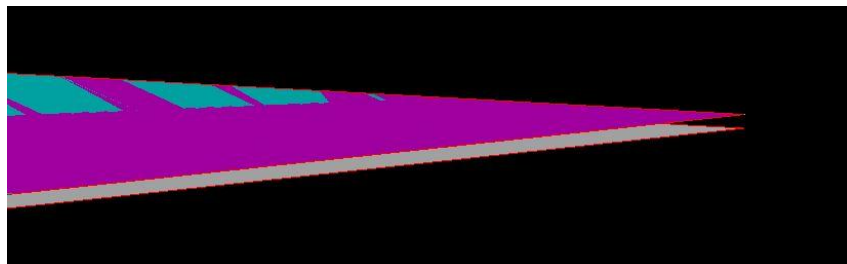


If you then use the command CONVOTOSURFACE and select all of the triangles, followed by the command UNION and again select all of the triangles, that is the first surface created



You can then repeat this for subsequent surfaces. It will make life a bit easier if you turn the surface off once you have extracted the triangles and border

I have created an offset surface just to show the depth



All that is need from there is to loft the 2 borders together, type in UNION and select both the 2 surfaces and the lofted boundaries followed by the command CONVOTOSOLID

