

SURFACE BUILDING

How to Merge Surfaces:

Issue:

You would like to merge two surfaces, however when pasting them together the results are not as desired. The goal is to replace old survey data with new survey data in the same area, without losing the original surface data.

Solution:

In Autodesk® AutoCAD® Civil 3D® it is possible to update surfaces with new data by adding the new data (points, lines, surfaces) to the existing surface.

All dynamically linked object such as alignments, profiles, corridors, etc. will be automatically updated at the same time.

1. On the Civil 3D Toolspace, click on "Prospector" tab.
2. Right mouse click on "Surfaces" and create a new surface.
3. Expand the "Definition" subfeature for that new surface and right click on "Edits".
4. Click "Paste Surface" and chose the original surface.
5. Change the new surfaces style to show points.
6. Create an outline of the area you wish to overwrite with you updated surface data.
7. Once outline is drawn, navigate to the new surfaces definitions and click on the "Edits" feature again.
8. Click "Delete Point", and select all the point visible within the outlined area.
9. Once all the points in the outlined area have been deleted, click on the "Edits" feature one more time.
10. Click "Paste Surface" and chose the updated data surface.
11. Change the new surface style to show contours or desired look.