

Overview: Export soil boring logs from gINT and import them into an AutoCAD Civil 3D drawing that contains a profile of the ground surface.

Software: gINT 8 Pro; AutoCAD Civil3D 2014 using Civil3D Workspace

Notation Method

Displayed Text Icon Action {Text to Enter} Menu Item...

Verify and Modify the Profile Grid View of the Ground Profile in CAD.

In AutoCAD C3D open the drawing that has the profile of the ground surface.

1. Go the Profile Grid View that the soil boring logs will be placed onto.

Review the Profile view: Adjust the scale or the station and elevation range to have enough depth for the boring log if needed.

2. Select the Profile View grid. Right-click... click *Profile View Properties*

Changing the Scale of the view:

3. On the *Information* tab, Pull-down the *Object Style* to the desired scaling (E.g. A50Hx10V). The text will be sized correctly once you set the drawing scale (or viewport scale) to match the horizontal scale of the profile view. (E.g. 1" = 50')

Modifying the extent of the stations and elevation

4. On the *Stations* tab, select *User specified range* and input the start & end stations.
5. On the *Elevations* tab, select *User specified height* and input the minimum & maximum elevations.
6. When done click .


Export Soil Boring Log plots from gINT.

In gINT, after soil boring logs have been created:

7. Click *Output... Fences....*
8. Select the holes.
9. In the Fences Option input the Vertical Axis and Distance Axis *Scales* that match the AutoCAD C3D Vertical scale and Horizontal scale of the profile grid view that the soil boring will be placed onto. E.g. Distance = {50}, Vertical = {10}.
10. Input the station value of the first hole into the *Initial Baseline Distance* entry.
11. Set the file location for exporting and change the format to .dxf.
12. Click to save it to a DXF.

Create and Import a Soil Boring block in CAD.

In AutoCAD Civil 3D

13. Once AutoCAD Civil 3D is open click  *Application menu ... Open... Drawing...*
14. Set the *Files of Type* to *DXF (*.dxf)*.
15. Browse to the .dxf file exported from gINT.
16. Click .
17. Type {wblock}. Press Enter.

gINT Soil Boring Logs into C3D

18. Click **Select Objects** and select the boring logs. Press Enter once all items have been selected.
19. Click **Pick Insertion Base Point**. Osnap to the intersection of an elevation and station that exists in the profile grid view where the soil boring logs will be placed. (E.g Station 100 & Elevation 900.)
20. Set the folder location for saving the block and input a file name for the block. E.g. {SmithPond CL Dam Soil Borings}
21. Click .
22. If asked to confirm AutoCAD Map information click .
23. Close the DXF file without saving.

24. Open the dwg soil borings “block” file and do a cleanup so that unwanted grids, lines, and text are not included.
25. Save the dwg and close it.

Within the drawing that contains the ground profile grid view:

26. Click *Insert... Block... Insert...*
27. From the Insert screen click to find the soil boring block created within CAD.
E.g. *SmithPond CL Dam Soil Borings*
28. Click
29. Checkmark *Insertion Point: Specify On-screen*
30. Checkmark *Scale: Specify On-screen*
31. Uncheck *Rotation*
32. Click
33. Snap to the Grid location of the station/elevation base point using shift + right-click.
Click *Intersection*. Click on the grid intersection of the base point station and elevation. (E.g. Station 100, Elevation 900)
34. For the X scale factor input the Horizontal Scale factor. E.g. 50. Press Enter.
35. For the Y scale factor input the same value. E.g 50. Press Enter.
36. Click .