



OHDOT_gINT_Conversion.mvba

Description:

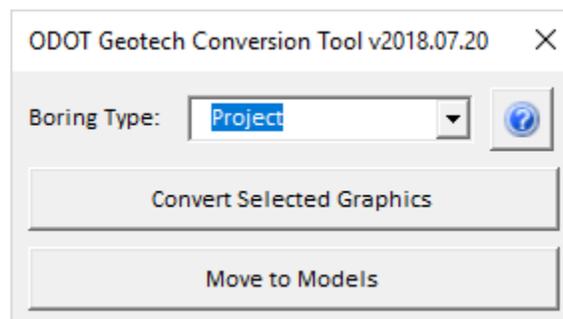
ODOT's Geotechnical Drafting Standards document the required CADD standards for Soil Boring graphics drawn in MicroStation. The Soil Boring graphics are exported from gINT into a DXF file that is then imported into MicroStation. Once imported, there are several steps that must be completed to ensure that the soil boring graphics are drawn with the correct symbology to meet ODOT's requirements. This application is used to facilitate the conversion of the soil boring graphics exported from gINT to meet the CADD standards required by the ODOT Geotechnical Drafting Guide.

Accessing the Application:

The application is loaded in MicroStation Connect Edition or OpenRoads Designer Connect Edition by selecting the **gINT Conversion** icon from the Ohio DOT Workflow.

Application Operation:

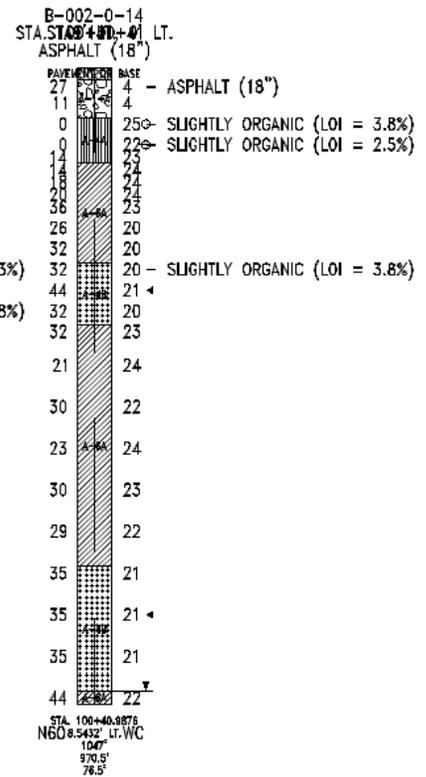
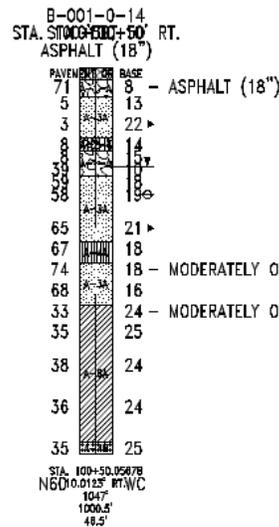
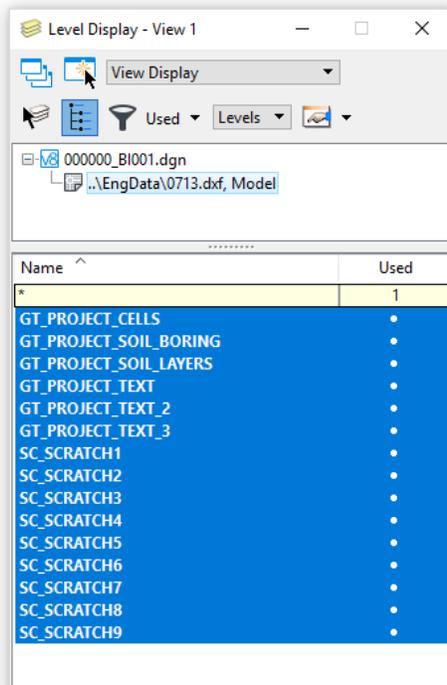
When the application is accessed, the dialog shown below is opened.



The application uses a MicroStation selection set to define the soil boring graphics to be converted. Choose the elements for the conversion before proceeding.

Boring Type

Regardless of the boring type, the graphics exported from gINT are initially placed on the levels shown below.



The **Boring Type** item is used to choose the type of boring that the graphics represent. The following options are available:

- Historic
- Instrumented
- Project

Choose the desired type for the graphics to be converted.

Convert Selected Graphics

Choose the button to start the conversion process.

When the selected graphics are converted, the graphics are moved to the appropriate level for the selected **Boring Type**.

Since each boring type uses a specific set of levels, it is important to select only the elements to be converted for the selected **Boring Type**. Multiple soil borings of the same type can be selected and converted simultaneously, assuming they are all the same type.

In the example below, the soil boring on the left has been selected for conversion.

Note!

The conversion process does not address every item in the soil boring. Some manual cleanup is still required. See the Geotech Drafting Guide for additional information.



Move to Models

After the soil boring graphics have been converted to the correct symbology, users may elect to move each soil boring into a separate model. This is done to allow each soil boring to be used as a cell, or a reference attachment, that can be placed on the cross sections and profile. When the boring graphics are moved to separate models the 0, 0 point of the model will be the top center location of the boring graphic.

When **Move to Models** is selected a tagset named ODOT_Boring_Prof_XS with a tag named “Data” is created and assigned to the topmost text for each boring graphic. This should be the name of the boring. The tag’s value is set for each boring graphic with its respective boring name, station, offset, and elevation.

This tagged data can then be used with the **Place Boring Graphics** mvba to add references of these boring graphics to profile cells and cross section cells. Since each boring graphic is not associated with an alignment it is recommended that each boring file only contains the boring graphics for one alignment. This will result in multiple boring files. This way when using the **Place Boring Graphics** mvba it can be assured that the correct boring graphics get placed on the correct profile and cross section cells.

Choose the **Move to Models** option to initiate the process. The exploration ID of each soil boring is used as the name for the models that are created.

Updates:

Version 2018.07.20

Initial release for MicroStation and OpenRoads Designer Connect Edition

Version 2021.09.24

Modified the application to use new text styles

Version 2022.12.20

Updated to remove all ftp links to use HTTPS protocol.

Version 2023.07.03

- (v2023.03.17) Updated to work in ORD 10.11
- (v2023.07.03) Updated to fix problem where elements were not set to correct levels.

Version 2023.09.21

Fixed bug introduced with previous update

Contacts

For any questions, suggestions, or problems with this document please contact the ODOT Office of CADD and Mapping Services by use of the following form on the ODOT website:

https://odot.formstack.com/forms/cadd_servicerequest