

# CDOT Importing gINT Project Data



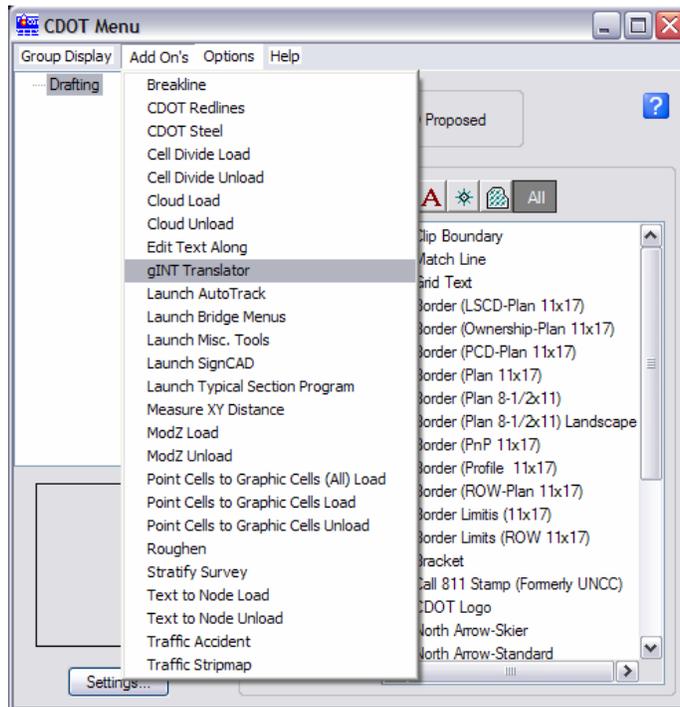
This document is designed to serve as a guide for importing data from gINT project files (.gpj files) into MicroStation. The gINT Translator/Import tool is designed to place the selected bore hole points in a MicroStation design file, plot the hole profiles along with a corresponding grid, and place the sheet border with legend items. Using the *Automatic* fit option the drawing and graph (bore hole profile and grid) scales, view rotation, and sheet legend position will be calculated based on the range of the points selected. These settings can be overridden by using the *Manual* fit option. No matter what fit options are used the point locations are plotted in their true geographic position. The gINT software is not required to run this utility.

## Creating a new file

1. From the MicroStation pull-down menu select **File > New**. The **New** dialog will appear.
2. Navigate to the project directory folder *Drawings* by double clicking the directory folders.
3. At the bottom of the dialog box verify that the seed file is set to *3D-Seed.dgn*.
4. Enter the name of the file to create and select the **OK** button.

## Importing gINT project data

5. From the CDOT Menu, select **Add On's > gINT Translator**.



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- From the gINT Import dialog click on the **Open Project** button and select the gINT project file (.gpj file) to import.

The screenshot shows the 'gINT Import' dialog box. The 'gINT Project' section contains fields for Project ID (Name, Location, Route, Project Num, County, Code). The 'Points' section has a 'Point ID' dropdown menu, 'Date Drilled', 'Northing', 'Easting', 'Elevation', 'Lithology Points', 'Sample Points', and 'Hole Depth'. The 'Open Project' button is highlighted with a black box. The 'Display Parameters' section has a 'Points to Display' list, a 'Select All' button, and a 'Prefix' field. The 'Graph Display' section has 'Fit Options' (Automatic, Manual), 'Drawing Scale' (100), 'Lock Drawing Scale', 'Graph Scale' (5), 'Rotation' (None, Fixed), and 'Sheet Legend Position' (Bottom, Left). The 'Legend Notes' section has 'Place Sheet Border' checked and 'Boulder Note', 'Ground Water Note' options.

- The left side of the dialog displays information about the opened project file. Selecting the different points from the **Point ID** drop down will display the Northing, Easting, Elevation, etc. about that point.

The screenshot shows the 'gINT Import' dialog box with the 'gINT Project' section highlighted by a black box. The 'Points' section has 'Point ID' set to '1', 'Date Drilled' set to '4/17/2007', 'Northing' set to '69647', 'Easting' set to '55858', 'Elevation' set to '7372.3', 'Lithology Points' set to '5', 'Sample Points' set to '5', and 'Hole Depth' set to '24'. The 'Open Project' button is highlighted with a black box. The 'Display Parameters' section has a 'Points to Display' list with items 1, 2, 3, 4, and 5. The 'Select All' button is highlighted with a black box. The 'Graph Display' section has 'Fit Options' (Automatic, Manual), 'Drawing Scale' (100), 'Lock Drawing Scale', 'Graph Scale' (5), 'Rotation' (None, Fixed), and 'Sheet Legend Position' (Bottom, Left). The 'Legend Notes' section has 'Place Sheet Border' checked and 'Boulder Note', 'Ground Water Note' options.

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- The right side of the dialog is for making the display selections. In the **Points to Display** list select one or more points to import in to the design file. You may also click on the **Select All** button to select all the points.

The screenshot shows the 'gINT Import' dialog box. The 'Points to Display' list is highlighted with a black box, and the 'Select All' button is also highlighted. The 'Prefix' box is empty.

Field	Value
Name	US 34: Upper Big Thompson River Bridges
Location	Estes Park
Route	US 34
Project Num	BR 0341-068
County	Larimer
Code	15548
Point ID	1
Date Drilled	4/17/2007
Northing	69647
Lithology Points	5
Easting	55858
Sample Points	5
Elevation	7372.3
Hole Depth	24

- In the **Prefix** box enter a label to be placed in front of the point ID. This may be left blank if no prefix is desired.

The screenshot shows the 'gINT Import' dialog box. The 'Prefix' box is highlighted with a black box and contains the text 'TH'. The 'Points to Display' list is also highlighted with a black box.

Field	Value
Name	US 34: Upper Big Thompson River Bridges
Location	Estes Park
Route	US 34
Project Num	BR 0341-068
County	Larimer
Code	15548
Point ID	1
Date Drilled	4/17/2007
Northing	69647
Lithology Points	5
Easting	55858
Sample Points	5
Elevation	7372.3
Hole Depth	24

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- The **Automatic** fit option will calculate the best fit based on the range of the points selected. Selecting the **Manual** option will enable the grayed out fields for you to enter your own values.

The screenshot shows the 'gINT Import' dialog box. The 'Project ID' section contains: Name: US 34: Upper Big Thompson River Bridges, Location: Estes Park, Route: US 34, Project Num: BR 0341-068, County: Larimer, Code: 15548. The 'Points' section contains: Point ID: 1, Date Drilled: 4/17/2007, Northing: 69647, Lithology Points: 5, Easting: 55858, Sample Points: 5, Elevation: 7372.3, Hole Depth: 24. The 'Display Parameters' section contains: Points to Display (list 1-5), Select All button, Prefix: TH, and Place Sheet Border checked. The 'Graph Display' section contains: Fit Options (Automatic selected, Manual unselected), Drawing Scale: 100, Lock Drawing Scale unchecked, Graph Scale: 5, Rotation (None selected, Fixed unselected, Angle: 0), Sheet Legend Position (Bottom selected, Left unselected), and Legend Notes (Boulder Note unselected, Ground Water Note unselected). The 'Open Project' button is visible at the bottom.

- The **Drawing Scale** will default to the active scale of the design file. The Automatic fit will readjust the scale to best fit the points selected. If you do not want the scale to be adjusted select the **Lock Drawing Scale** check box.

This screenshot is identical to the one above, but with a red box highlighting the 'Lock Drawing Scale' checkbox in the 'Graph Display' section, which is now checked. The 'Automatic' radio button remains selected.

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- The bottom portion of the Display Parameters section of the dialog is for the sheet border related items. By default the **Place Sheet Border** checkbox will be selected. You may also select the automatic placement of the **Boulder Note** or **Ground Water Note** if it is required.

The screenshot shows the 'gINT Import' dialog box with the following fields and options:

- Project ID:** Name: US 34: Upper Big Thompson River Bridges; Location: Estes Park; Route: US 34; Project Num: BR 0341-068; County: Larimer; Code: 15548.
- Points:** Point ID: 1; Date Drilled: 4/17/2007; Northing: 69647; Lithology Points: 5; Easting: 55858; Sample Points: 5; Elevation: 7372.3; Hole Depth: 24.
- Display Parameters:** Points to Display: 1, 2, 3, 4, 5; Select All button; Prefix: TH.
- Graph Display:** Fit Options: Automatic (selected), Manual; Drawing Scale: 100; Lock Drawing Scale (unchecked); Graph Scale: 5; Rotation: None (selected), Fixed (Angle: 0).
- Legend Notes:** Sheet Legend Position: Bottom (selected), Left; Legend Notes: Place Sheet Border (checked), Boulder Note (unselected), Ground Water Note (unselected).

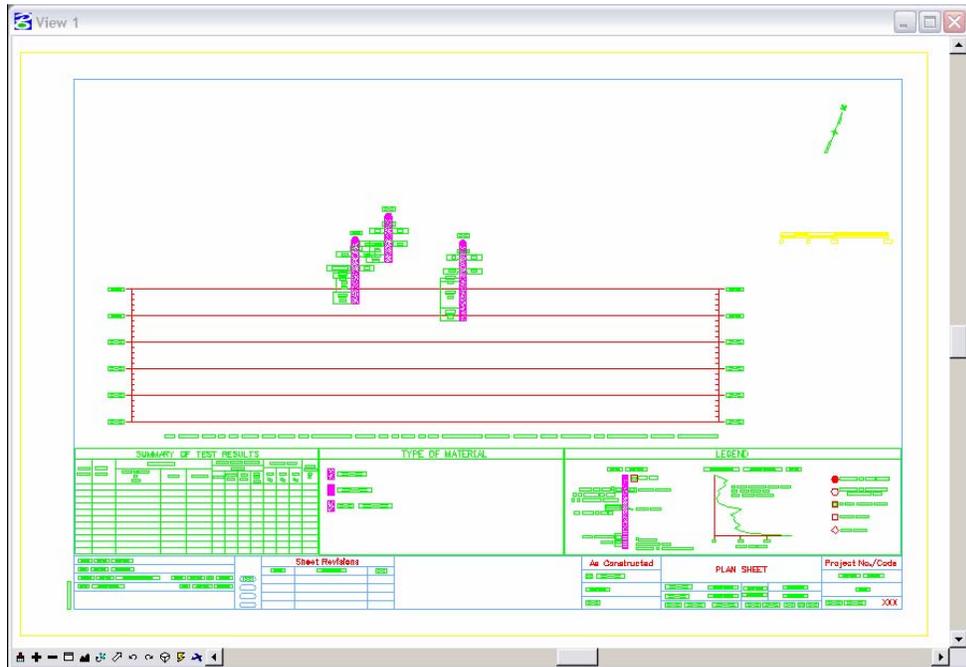
- Once all of the selections have been made click on the **OK** button to place the items in the design file.
- When the processing is completed the **gINT Import Summary** dialog box will appear displaying the range values of the selected points and the fit parameters. Click on the **OK** button to dismiss this dialog and exit the utility.

The 'gINT Import Summary' dialog box displays the following summary information:

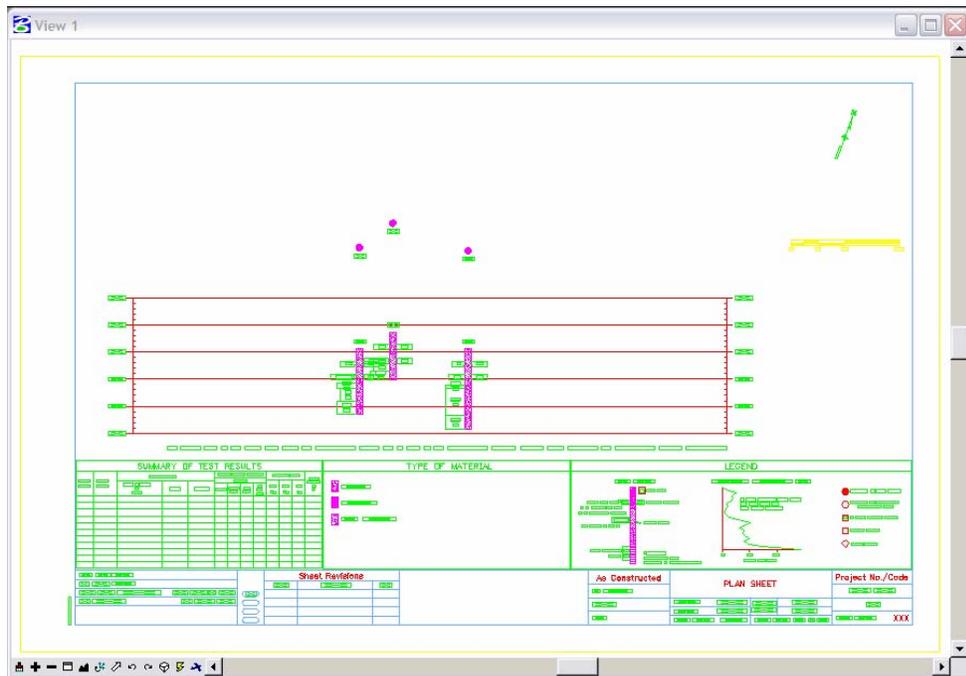
- Drawing scale: 100
- Graph scale: 5
- Data Orientation : 18.524895027703 degrees
- Data Range X: 191 feet
- Data Range Y: 64 feet
- Data Range Z: 3.80000000000018 feet
- Hole Depth Range: 12 feet
- View Rotation Angle : -20 degrees
- Border Position = Bottom

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15. For many data sets the bore hole profile plots may be positioned on the bore hole point instead of the grid.

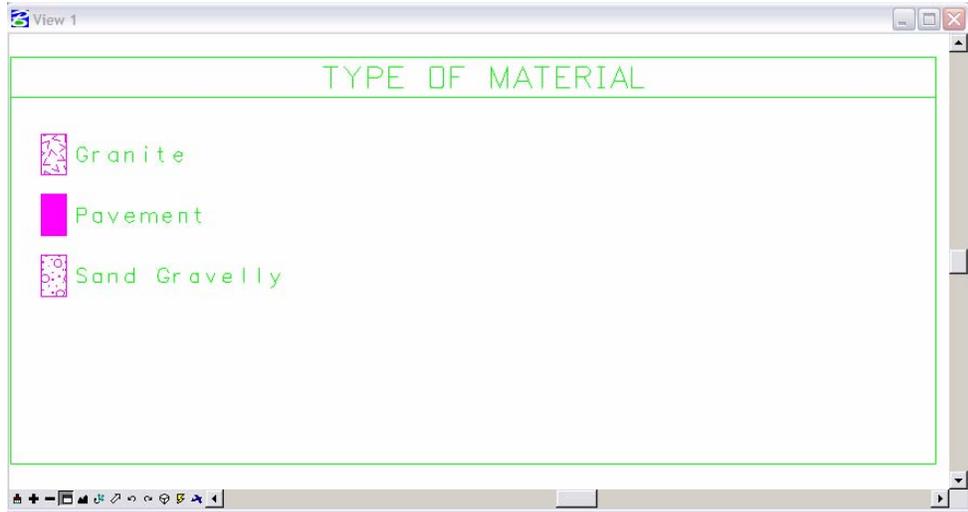


16. In these cases you will need to manually move the bore hole profile bar down to the correct position on the grid. The profile bar, top label, and side labels are all a single graphic group. With the **Graphic Group Lock** on you will be able to reposition it as a single element.



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17. The items placed in the *Type of Material* legend will reflect the found in the bore hole profile plots.



18. If you did not get the desired results you may delete all of the elements from the design file and rerun the utility again, selecting a different set of points and/or using the *Manual* fit options.