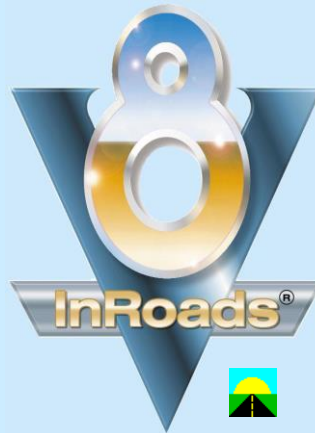


# Welcome to the InRoads® V8i Essentials Class

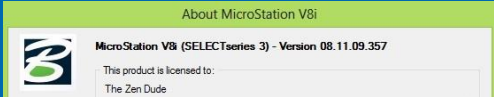
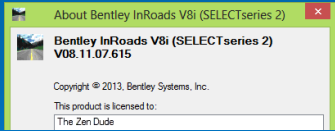


by Mark S. Ditko 

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## Computer Set-up

- Check InRoads Install
  - ♣ Start it up and open the **zen\_Design2.dgn** file
  - ♣ Hook up the MicroStation Line Resource File
  - ♣ Make sure the **Cell Library** is attached
- Verify MicroStation version under **Help > About...**
- Verify InRoads version under **Help > About...**
- Install Sample Files on C:Drive root - **Ztrain** folder
- Close MicroStation / InRoads

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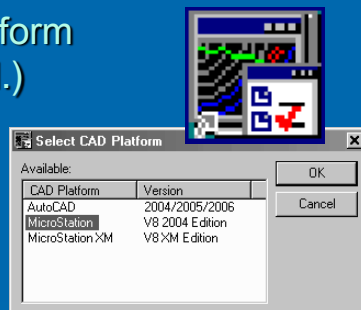


# Introduction - Objectives

- What is InRoads?
- Why InRoads, and what about CAD?
- Starting InRoads
- The InRoads interface.
- ... a few other miscellaneous items
- A bit about user preferences
- Exiting the product

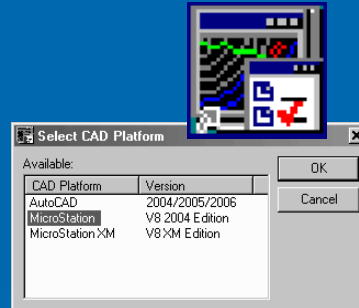
## Before Starting InRoads 1

- First .... select the CAD Platform (if more than one is installed.)
- The selected CAD platform locks in the one which launches when InRoads is started
- Then start InRoads by double-clicking on the InRoads shortcut icon



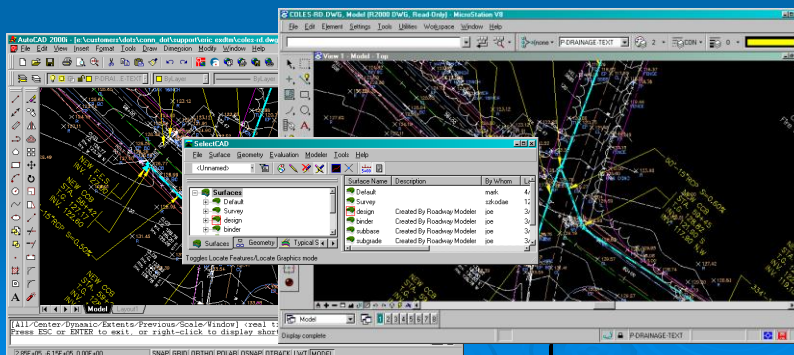
# Before Starting InRoads 2

- Select the CAD Platform
  - MicroStation V8i
  - AutoCAD -> 2010++
- Once the CAD platform is locked in, that one launches when InRoads is started



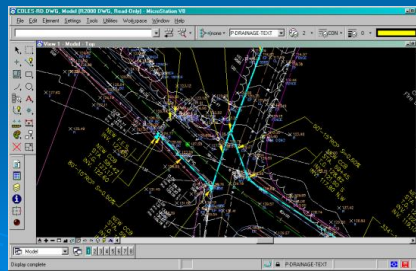
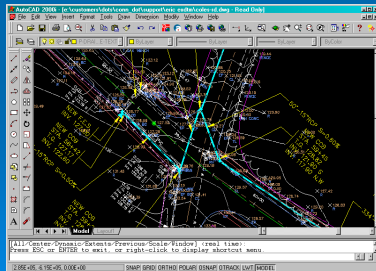
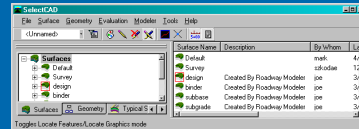
# InRoads and CAD

- Starting InRoads will load the 'Defaulted' CAD package as well as InRoads
- 2 Separate Programs are running



# InRoads versus CAD

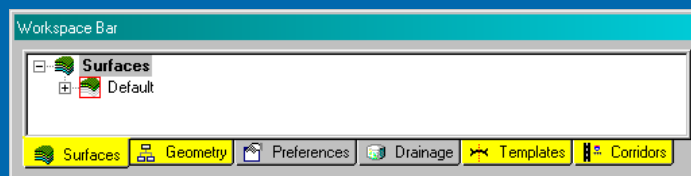
- InRoads handles the 'Engineering'
- CAD is the viewer



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## InRoads Data



- The Workspace Bar shows the various types of InRoads data
  - ♣ Surfaces – DTM, Digital Terrain Model (3-D model)
  - ♣ Geometry – ALG, ALIgNment (Geometry data)
  - ♣ Templates – ITL, InRoads Template Library (Sections)
  - ♣ Corridors – IRD, InRoads Roadway Designer (Rd Models)

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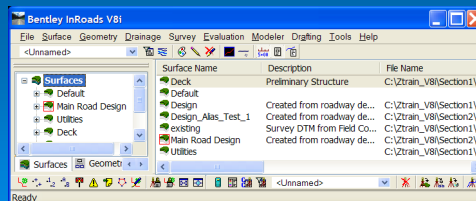
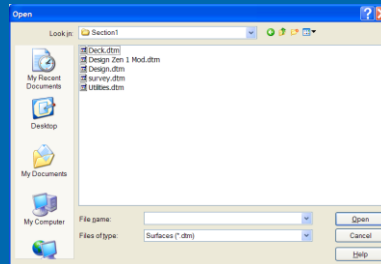
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# Opening InRoads Data

## ● InRoads 'copies' data

- From the hard drive
- Storing it in memory for use

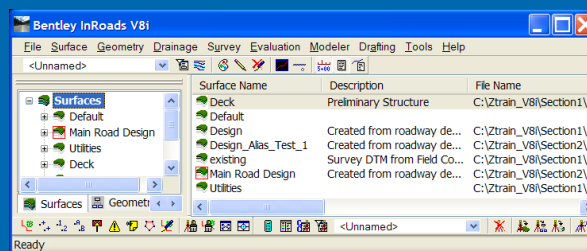
## ● Modifications are made to a 'copy'



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# The InRoads Interface



## ● 3 Parts of the InRoads Interface:

- **Main Menu Bar** –Pull-down menus
- **Workspace Bar** - InRoads Project Data Explorer
- **Feedback Pane** - Feedback window tied to the Workspace Bar selection

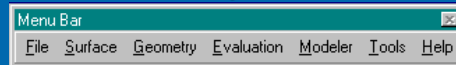
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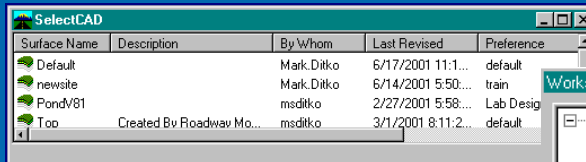
# The InRoads Interface

- The Civil menu really does have 3 parts to it.

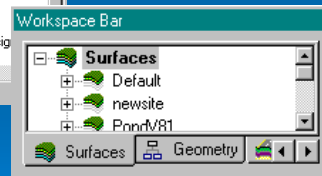
- The **Main Menu Bar**



- The **Feedback Pane**

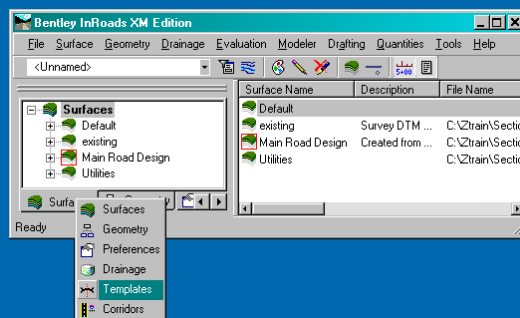


- The **Workspace Bar**



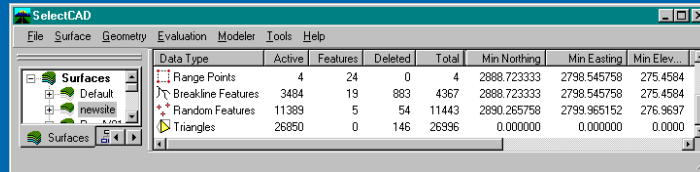
- Normally these are attached but they don't have to be.

# The Workspace Bar

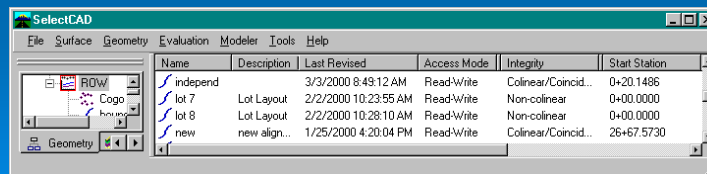


- The Workspace Bar allows you to explore the various types of project data that is loaded.
  - Select a data type on the Workspace Bar to show what information is currently loaded into memory.

# The Feedback Pane



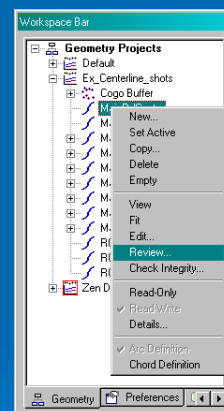
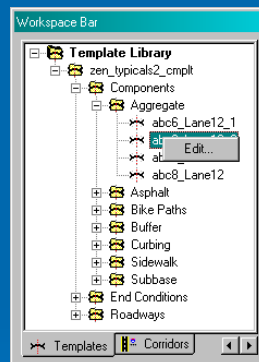
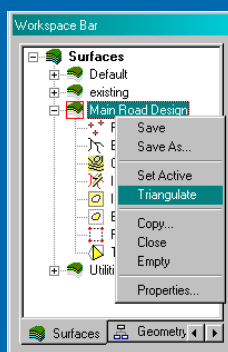
- Select left pane objects and view right pane details
- 'Explore' this viewing capability further as data is loaded & created throughout this class



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# Command Shortcuts



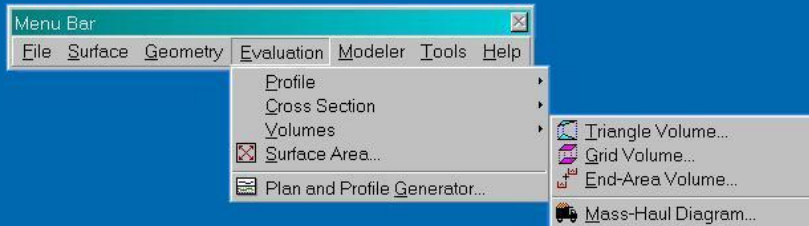
- The InRoads interface also has built-in **shortcuts** that increase user speed.
- Right-click on the left (or right) pane Objects

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# Accessing the Functionality

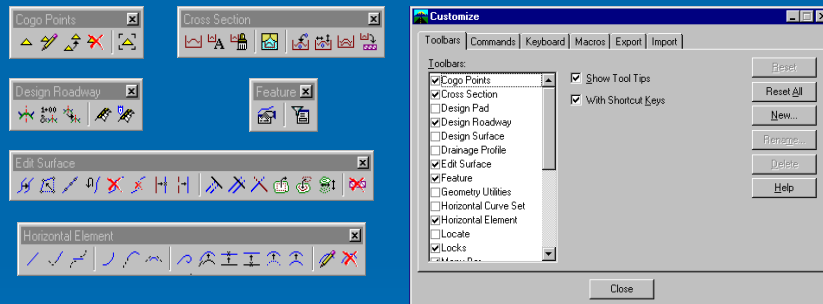
## Main Menu Bar



- All of the functionality is available from the pull-down commands off the Main menu

# Accessing the Functionality

## Toolbars



- Position your frequently used Toolbars somewhere, or dock them in the InRoads Explorer frame...



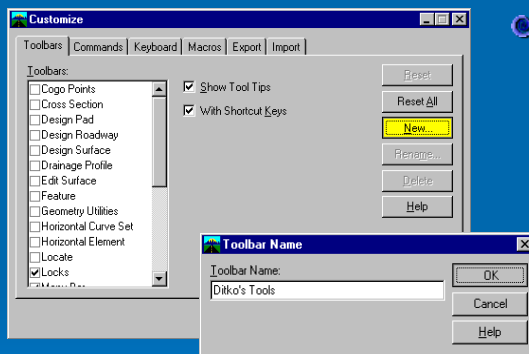
# Accessing the Functionality

## Docking



- Dock your frequently used Toolbars inside the InRoads interface frame

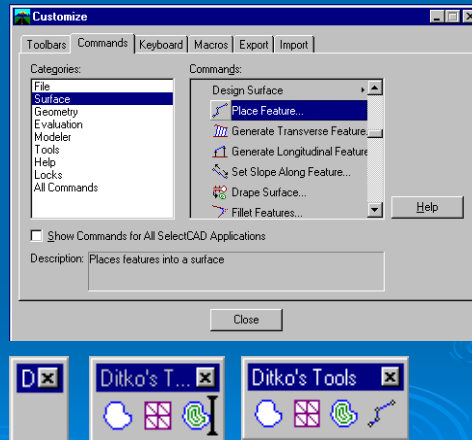
# Customized Toolbars



- Create your own Custom Toolbars
  - ↗ *Tools>Customize;*
  - ↗ Toolbar Tab
  - ↗ Select New...
  - ↗ Key-in the *Toolbar Name*
  - ↗ Find the empty Toolbar
  - ↗ And then...

# Customized Tool Palettes

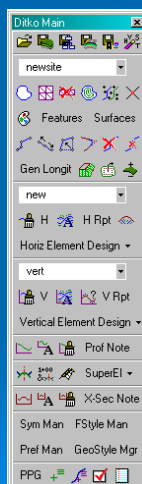
- Go to the *Commands* Tab;
- Select a *Category*;
- Drag and Drop a command into the new Toolbar.
- Build your Toolbar with the commands that you need.



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# Customized Tool Palettes



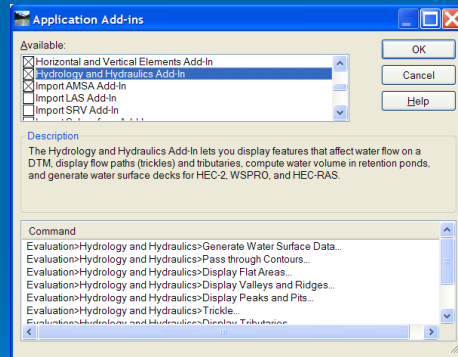
- Create any toolbars that you like.
- Export them as a **.TBR** file
- Import **.TBR** files created by others
- Open & Close them when needed.
- Resize and dock them just like any other toolbar.

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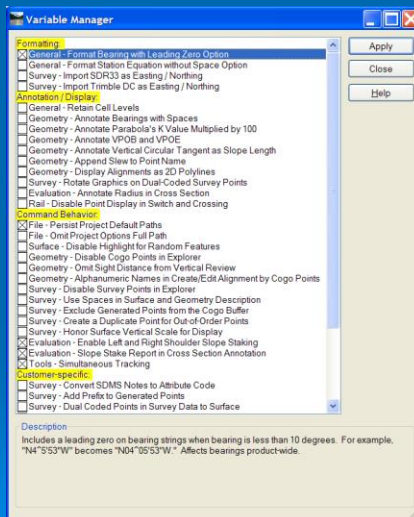
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# Application Add-ins

- Tools > Application Add-ins
- These are special tools that can be turned on
- Explore and switch on anything useful

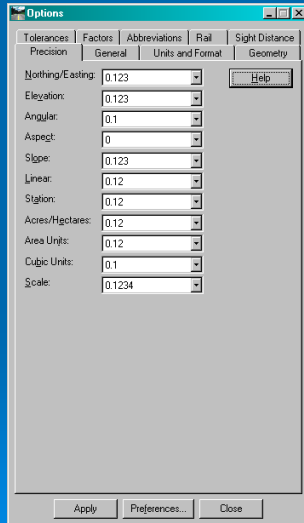


# Variable Manager



- This is a Special Application Add-in
- Variable Options
  - Formatting
  - Annotation \ Display
  - Command Behavior
  - Customer Specific
- Be aware of these new optional settings

# Options & Preferences



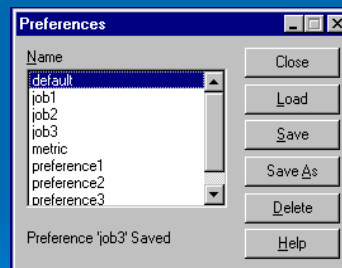
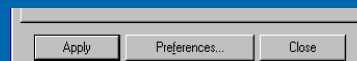
- The *File > Project Options* dialog box is used to set working defaults.
- Set your desired values in all the various tab categories.
- These changes can be saved and recalled later.
- This information is stored in the **.XIN** file.
- The Default settings are always used unless something different is either set or opened.

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# Saving Preferences

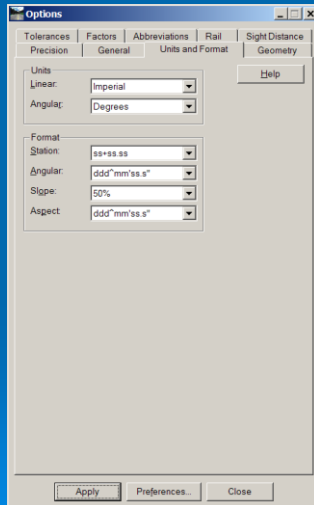
- A dialog box may have a '**Preferences...**' button
  - Save As is used to name individual 'personal' preferences & settings
  - Save will store any changes to the active preference
- Preferences can be stored & recalled later
- The **XIN** (also called the *Preference file*) stores these preferences



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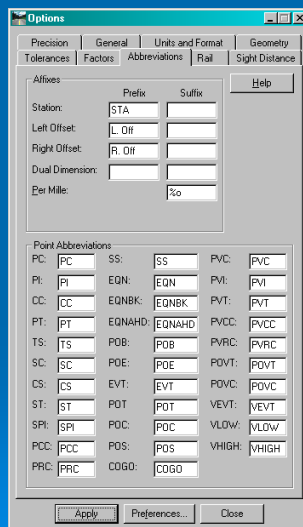
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# Options - Units & Format



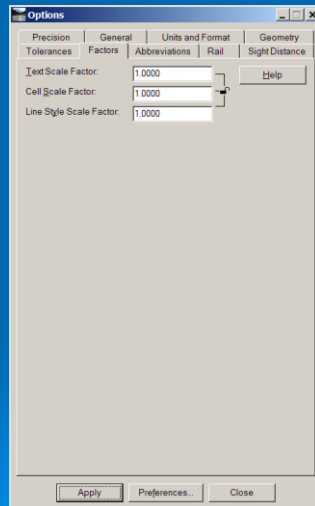
- Set and save the Units for the Project here
- Switch these settings to whatever you are familiar with when you are doing your work
  - if your angular data at hand is DD MM SS or DD.DDDD
  - ... etc.

# Options - Abbreviations



- Abbreviations & Affixes (suffix & prefix) are used by the software to control naming as well as place text before and after the display of various pieces of information

# Options - Factors

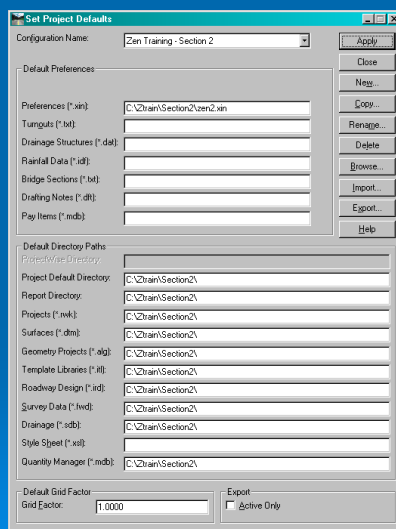


- Factors are used as a multiplier when items are viewed by InRoads
- Scale:
  - Text
  - Cells / Blocks
  - Line Styles
  - Line Width (ACAD only)
- We'll look at some of the other Options later

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# Project Defaults



- File > Project Defaults* establish 'project' specific path & settings
- Upper settings load physical files
- Lower setting lock in data paths only
- 'Close' on a specific 'Config Name' will activate those settings.

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# Exiting InRoads

- To exit InRoads and remain in MicroStation / AutoCAD, choose *File > Exit* from the InRoads command palette.
- To exit both InRoads and the CAD package, choose *File > Exit* from the CAD Main menu, or key in *exit* in the CAD platform.

# Introduction - Summary

- Either **start InRoads** directly, or start CAD and then load InRoads as an *Application*
- Get to the functionality of InRoads by using either the **pull down menus**, or going to *InRoads > Tools > Customize...* and the **pre-fab toolbars**, the many **shortcuts**, or by creating your own **Custom Toolbars**.
- **Preferences** can save the setting for displays, units and other defaults for InRoads.
- Set up **Project Defaults** for Job1, 2, 3, ... etc.
- **Exit** both the CAD package & InRoads, or InRoads only.