What's New in MicroStation 2025 (25.1)

Tamicca Sellars – MicroStation Product Manager

Dan Eng – MicroStation Product Expert

Bentley®

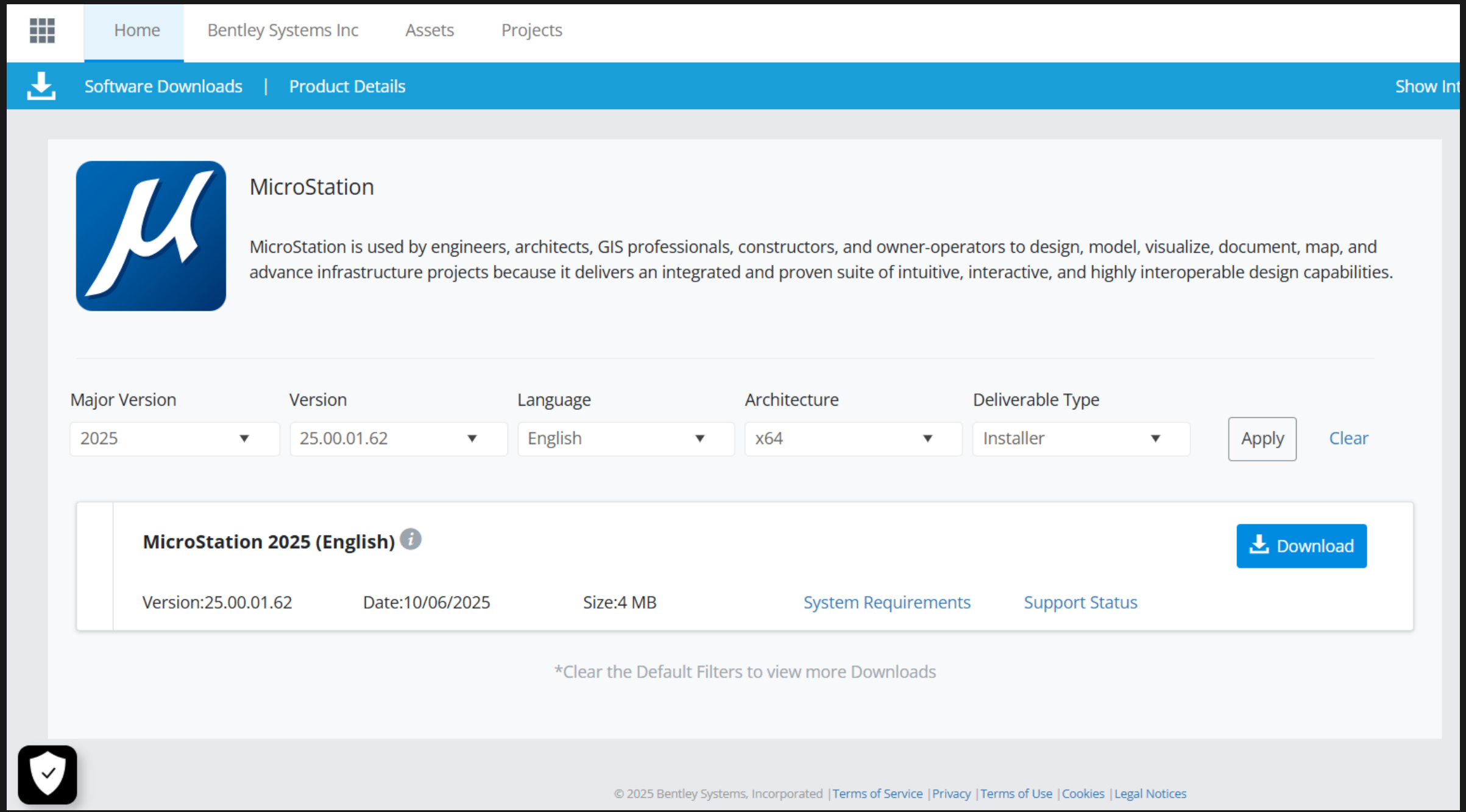
Presenters

Tamicca Sellars
MicroStation Product Manager

Dan Eng
MicroStation Product Expert

MicroStation is the trusted computer-aided design (CAD) platform for infrastructure projects. Professionals like you, use it to design, manage, and deliver infrastructure projects efficiently.

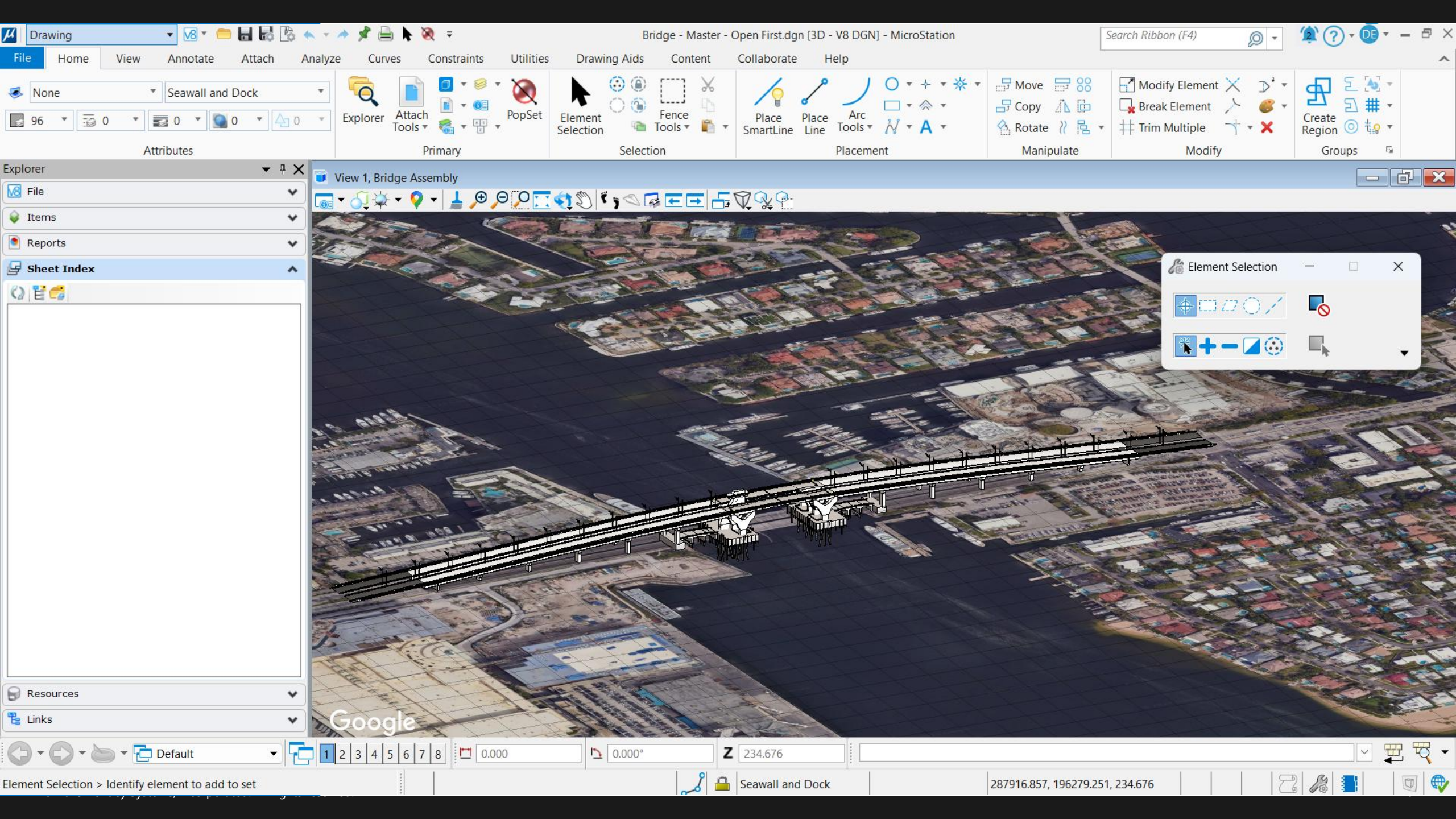
Power, flexibility, automation, and 3D geospatial context, enable innovative designs and creative visualizations.



Side by Side installation

MicroStation 2024	10/15/2024 3:34 PM	File folder
MicroStation 2025	3/10/2025 10:26 AM	File folder

River Bridge Data Set


Drawing
Bridge - Master - Open First.dgn [3D - V8 DGN] - MicroStation
Search Ribbon (F4)
File
Home
View
Annotate
Attach
Analyze
Curves
Constraints
Utilities
Drawing Aids
Content
Collaborate
Help
None
Seawall and Dock
96
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Attributes
Explorer
Attach Tools
PopSet
Primary
Element Selection
Fence Tools
Selection
Place SmartLine
Place Line
Arc Tools
Placement
Move
Copy
Rotate
Manipulate
Modify Element
Break Element
Trim Multiple
Modify
Create Region
Groups
Explorer
File
Items
Reports
Sheet Index
Resources
Links
View 1, Bridge Assembly
Element Selection
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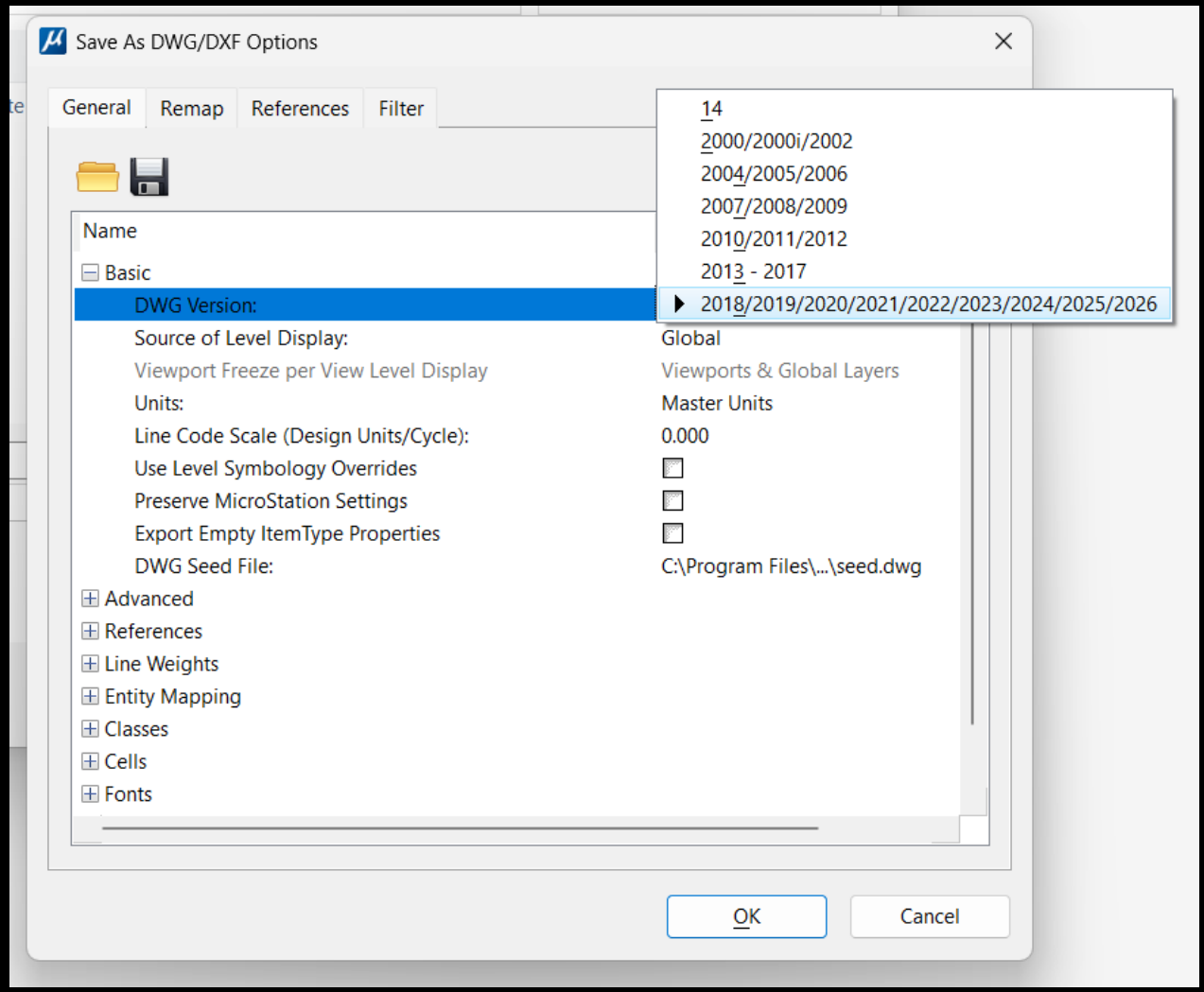
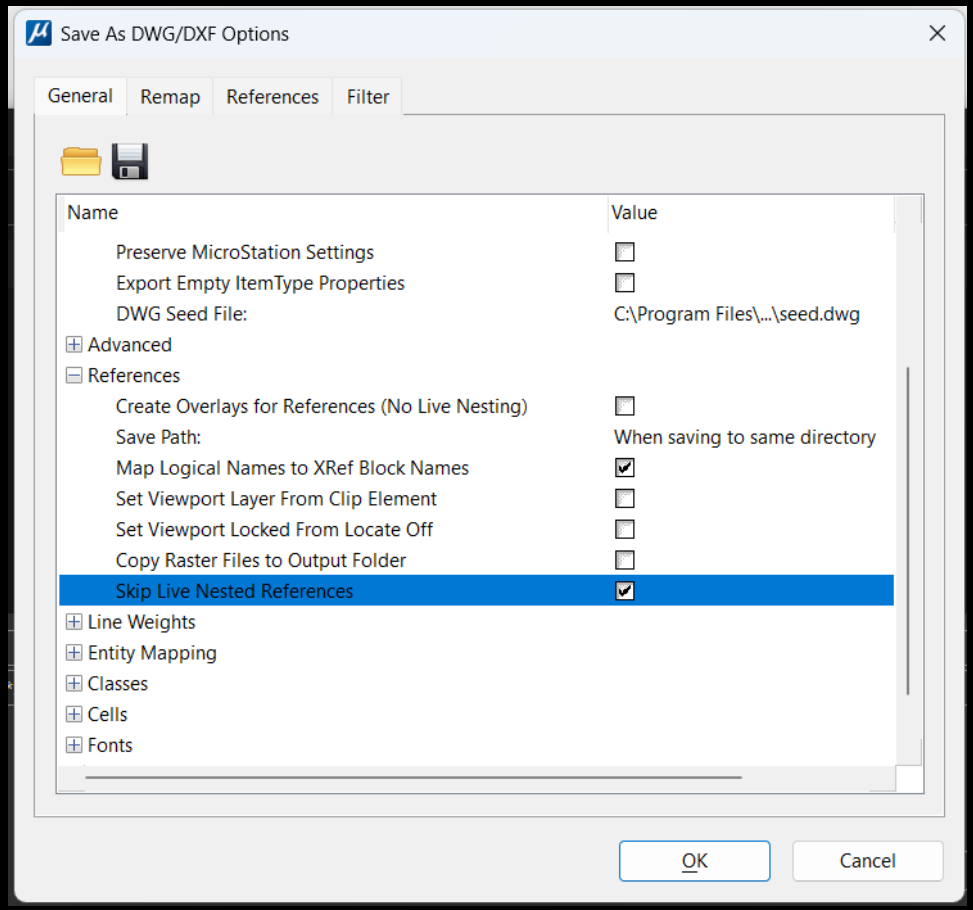
234.676
Element Selection > Identify element to add to set
Seawall and Dock
287916.857, 196279.251, 234.676

Drawing Production

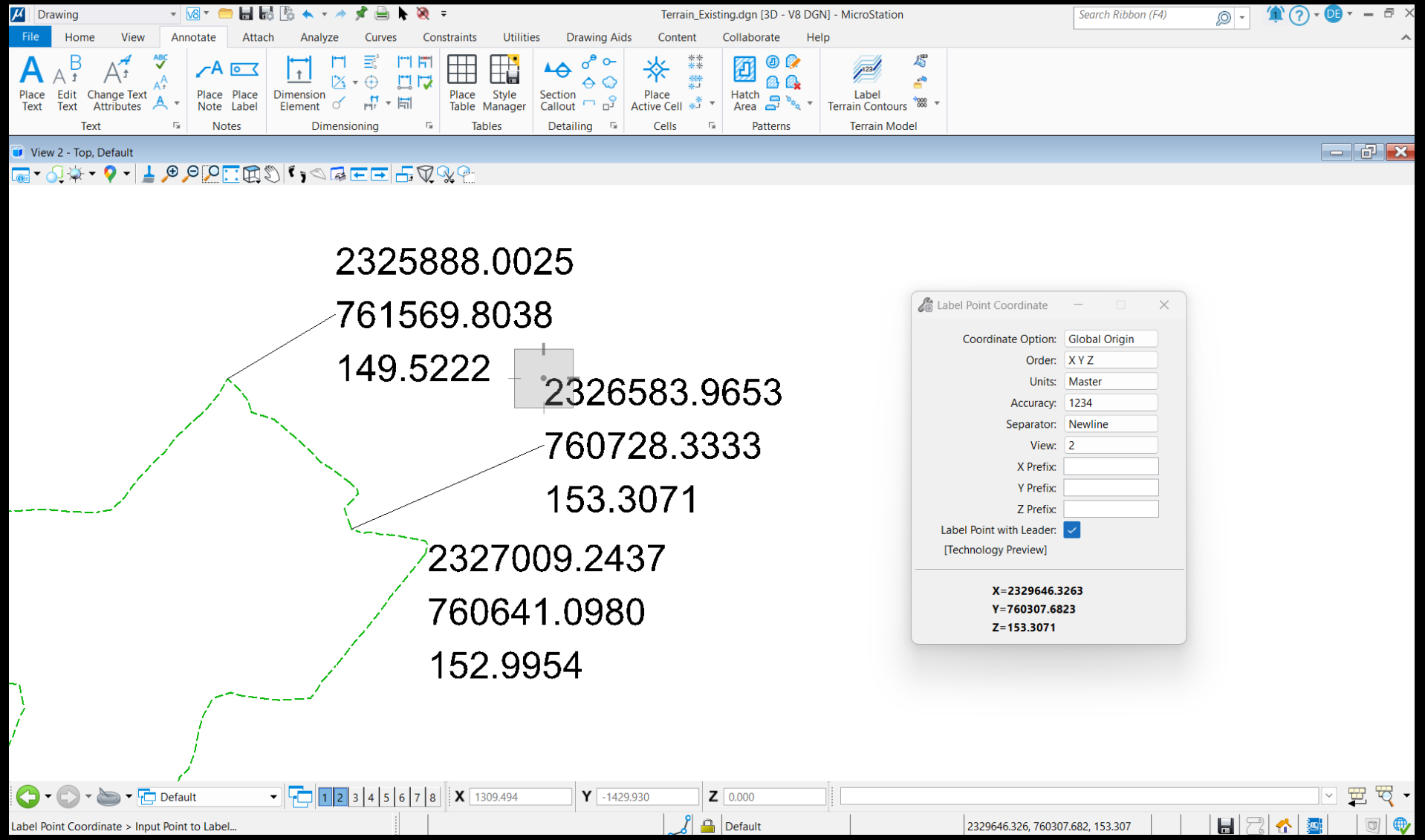
2025 – RealDWG 2026



2025.00.01.62 – RealDWG 2026 – Skip Live Nested References

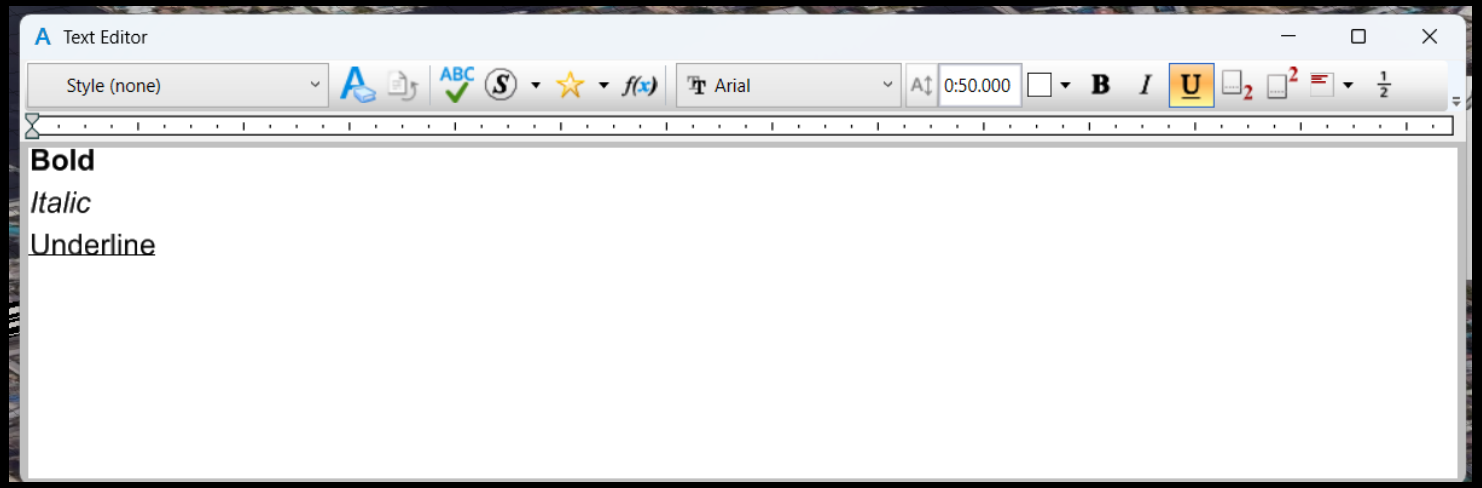


2025 - Label Point Coordinate with Leader

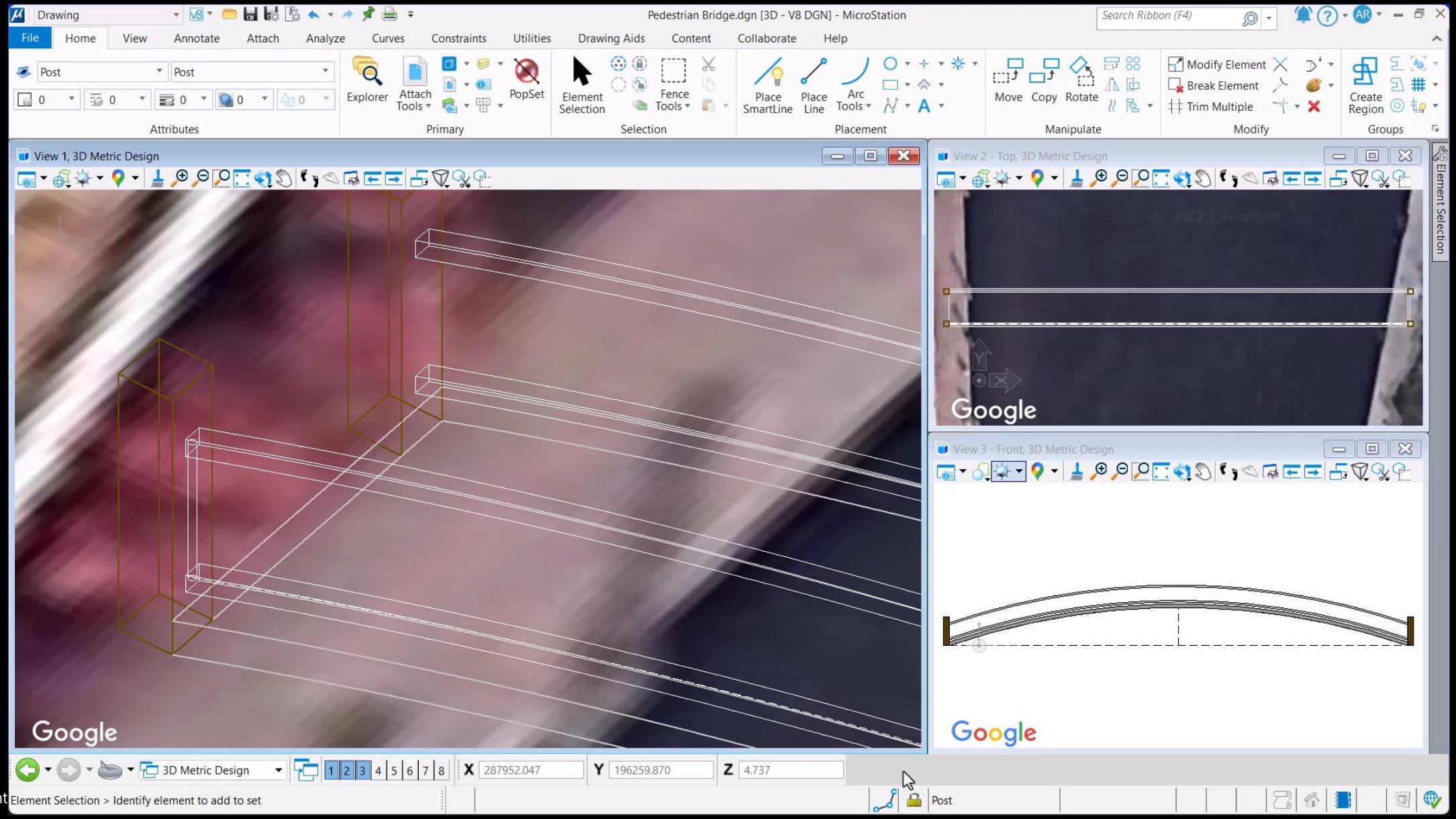


2025 – Text Editor Enhancements

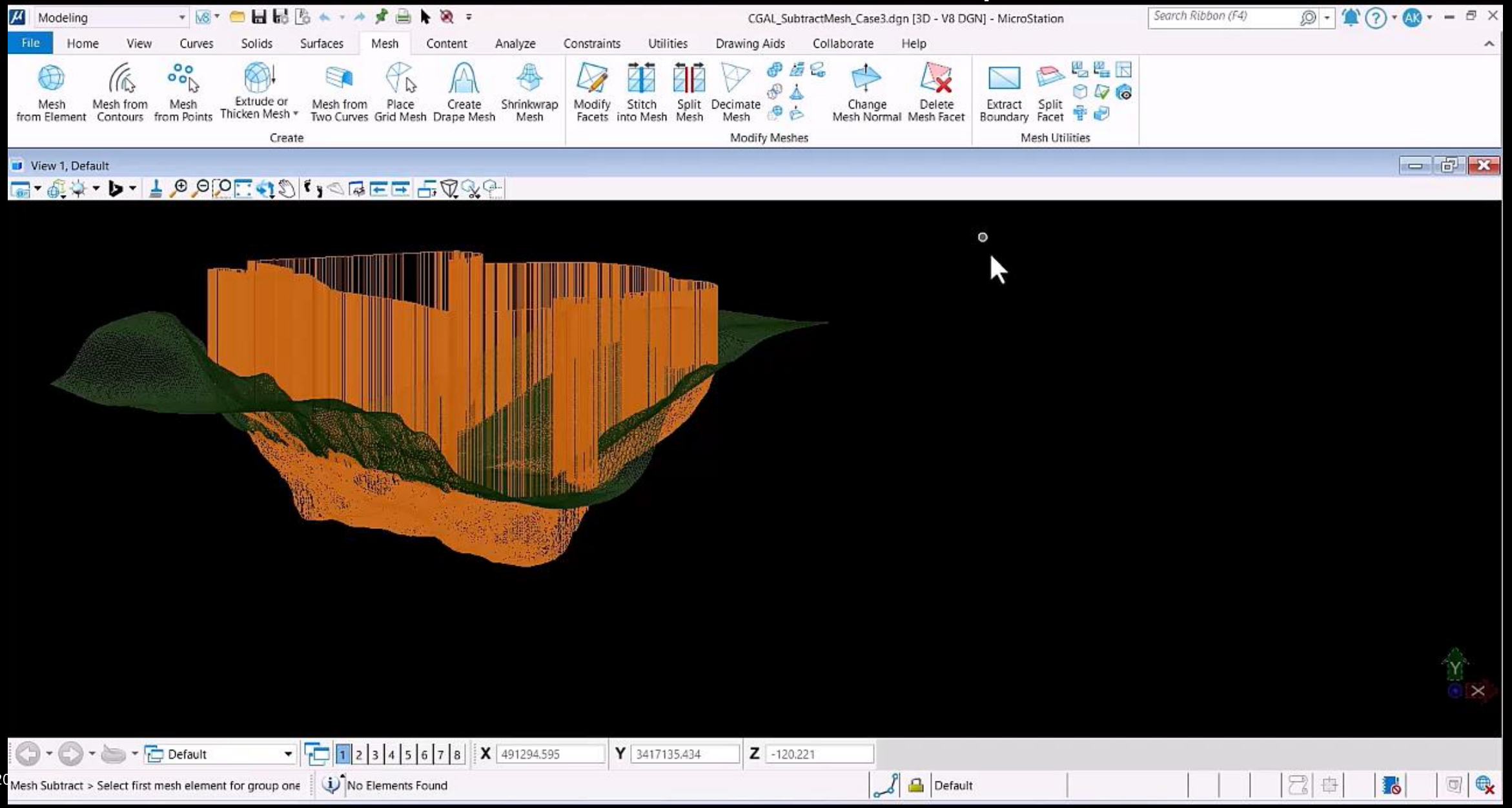
- Undo/Redo works with CTL+Z
- **Bold – CTRL+B**
- *Italic – CTRL+I*
- Underline – CTRL+U



2025 – Associative Arrays



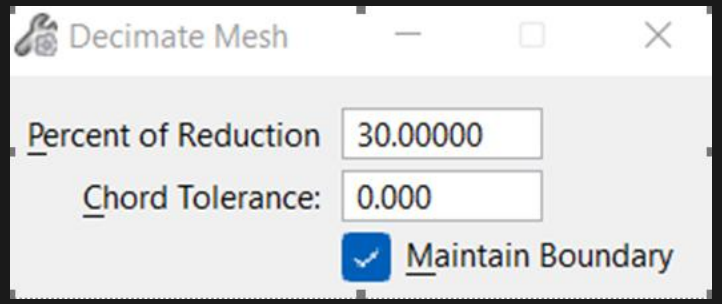
2025 - Mesh Enhancements - CGALMeshOps



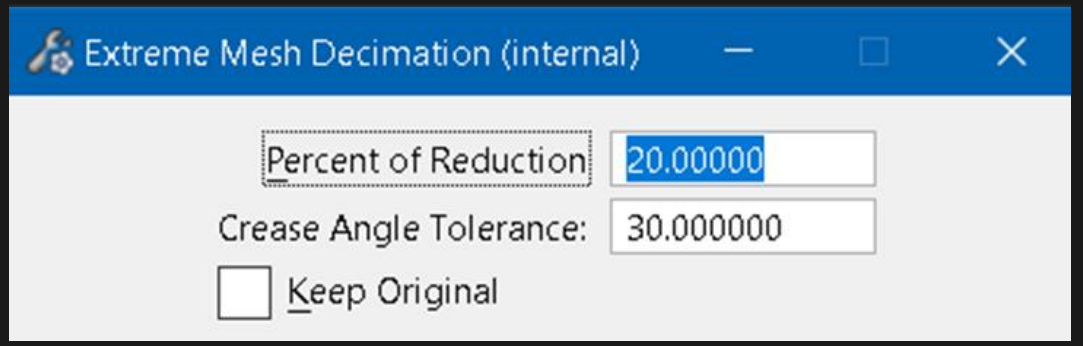
2025 - Mesh Enhancements – Extreme Decimation

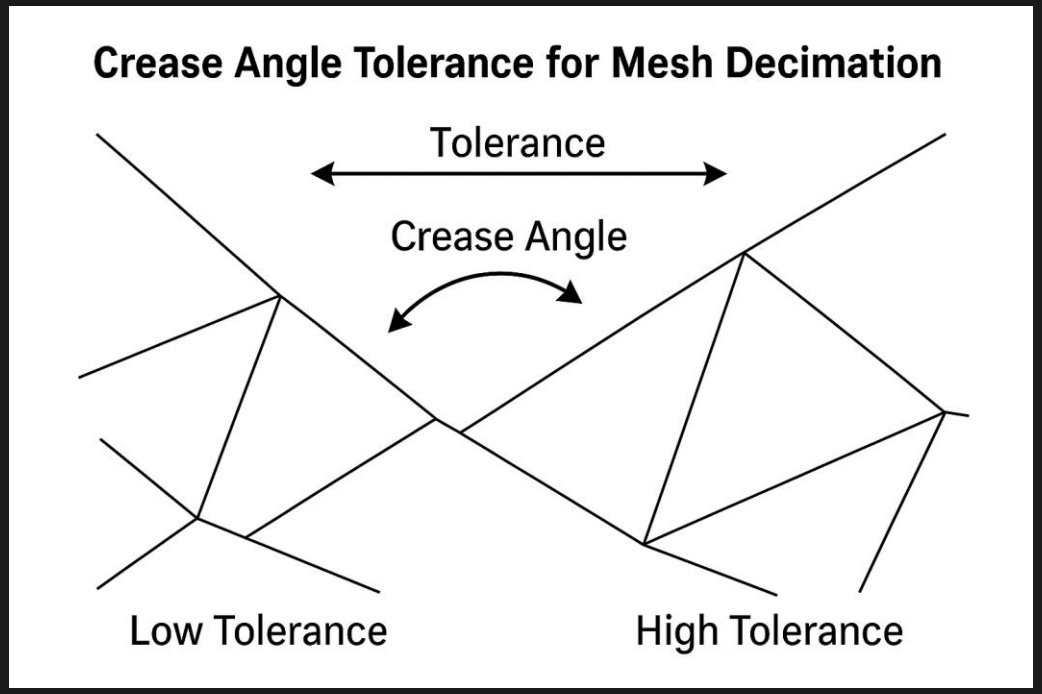
- This is an enhanced version of the decimate tool, featuring an angle tolerance setting for better control over mesh simplification.

Current Tool :

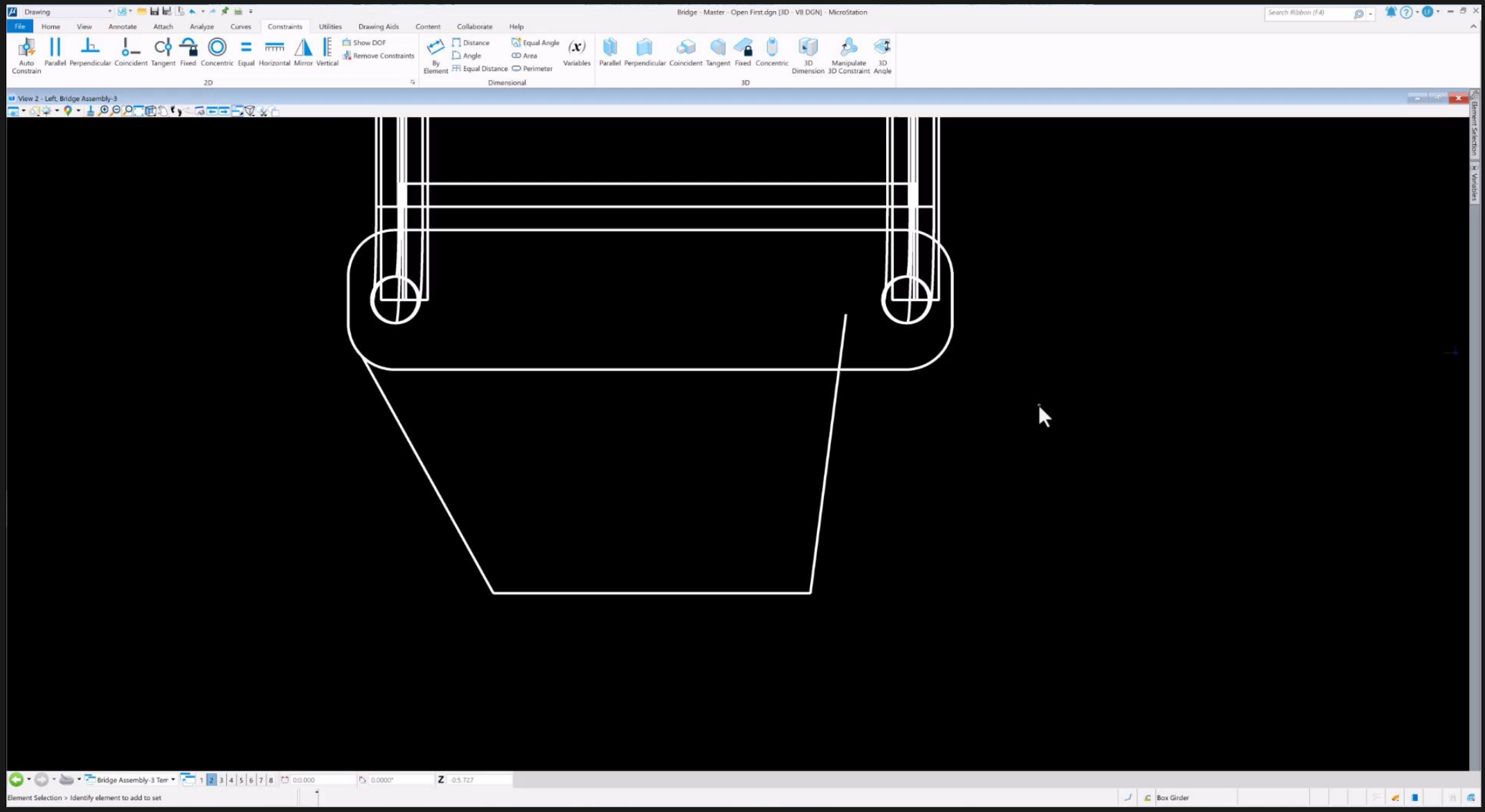


Tech Preview Extreme Decimation tool :





2025 – Equal Angle Constraint



AI Automation

Bentley's Core Principles for Data and Generative AI

Control	Contribute	Trust
You retain control of your design data, and you get to decide whether to use it to train AI models for your benefit.	Where relevant, you can choose to contribute your design data to train those AI models that benefit everyone collectively.	We will be transparent about how we created an AI model and how we obtained the data used to train it.

Optional Opt-In

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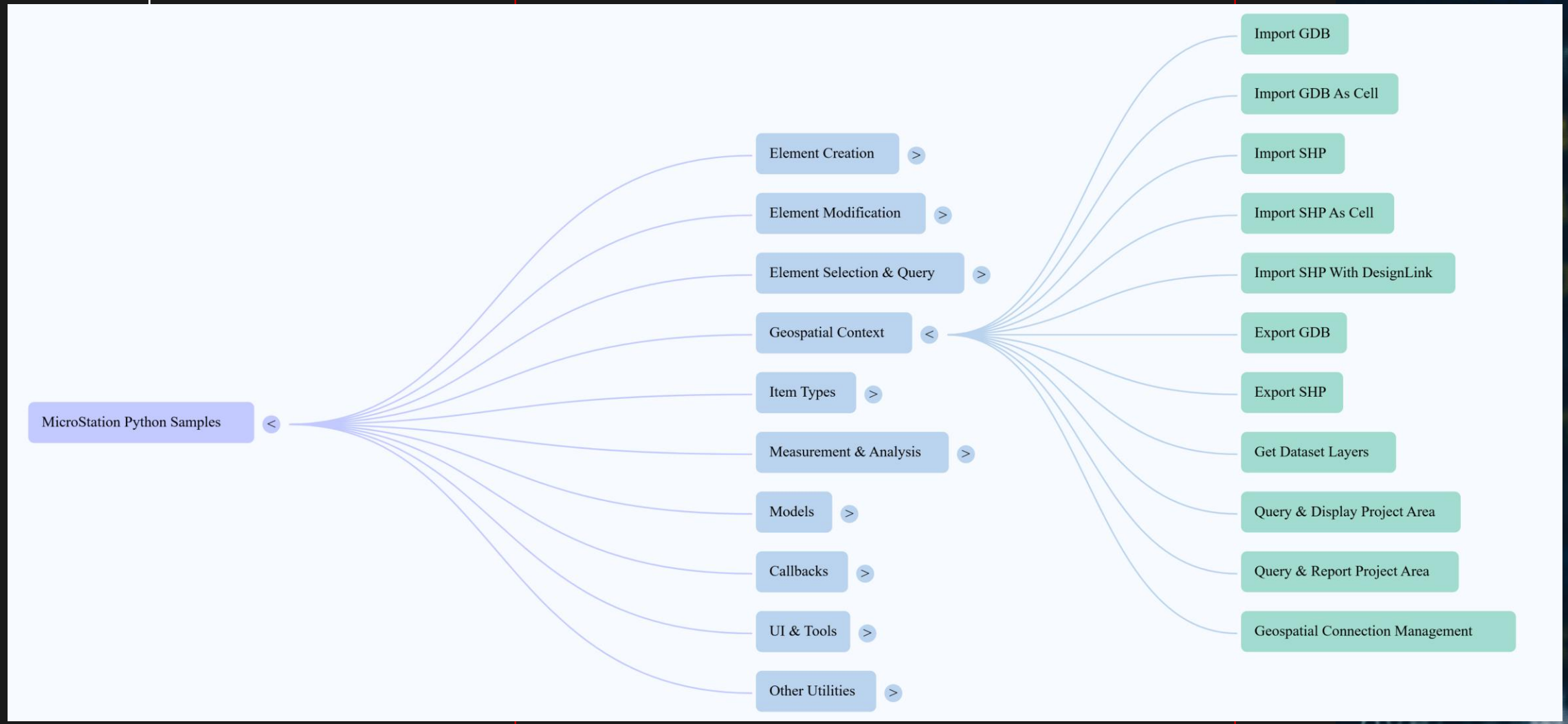
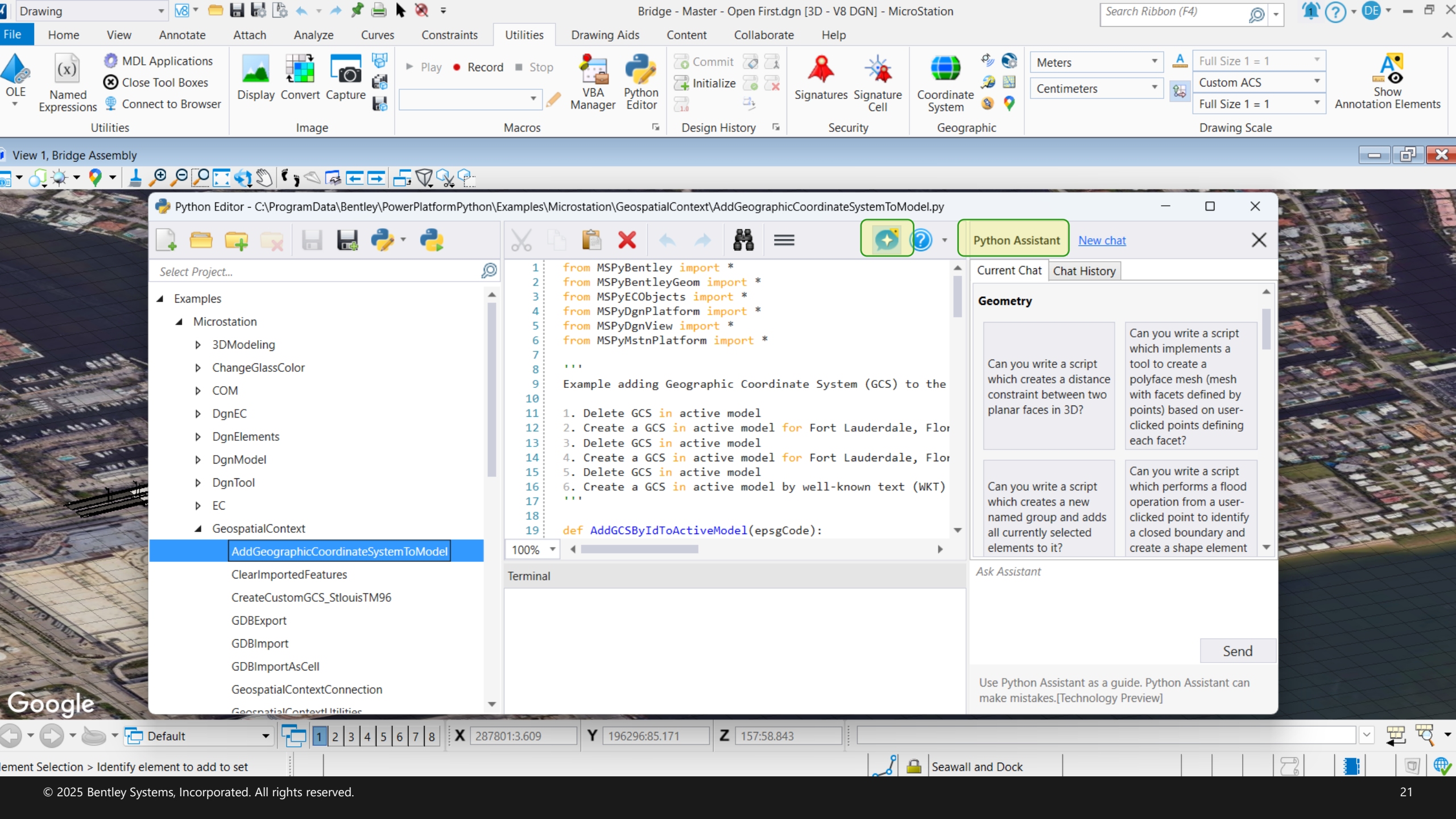
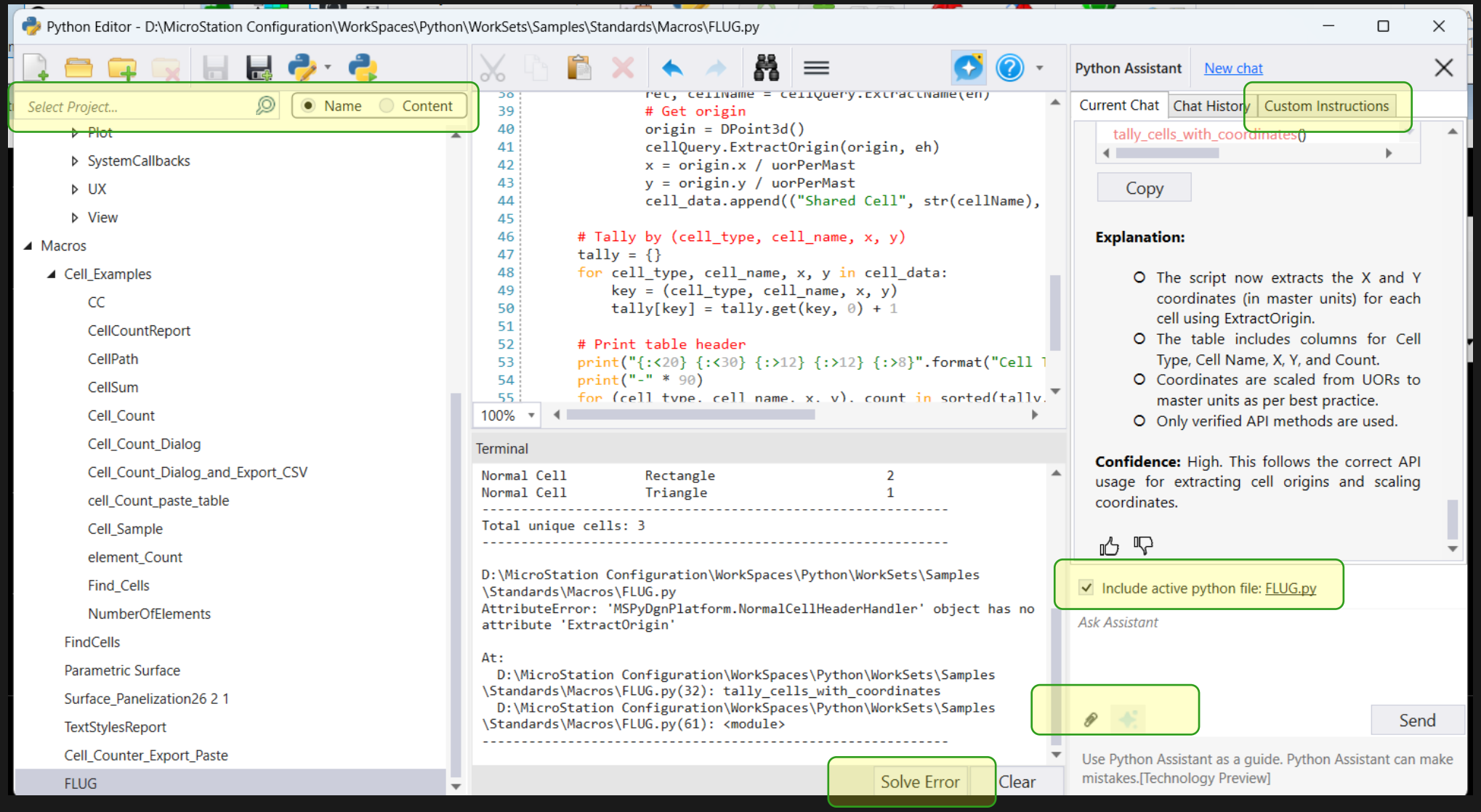
Python Samples

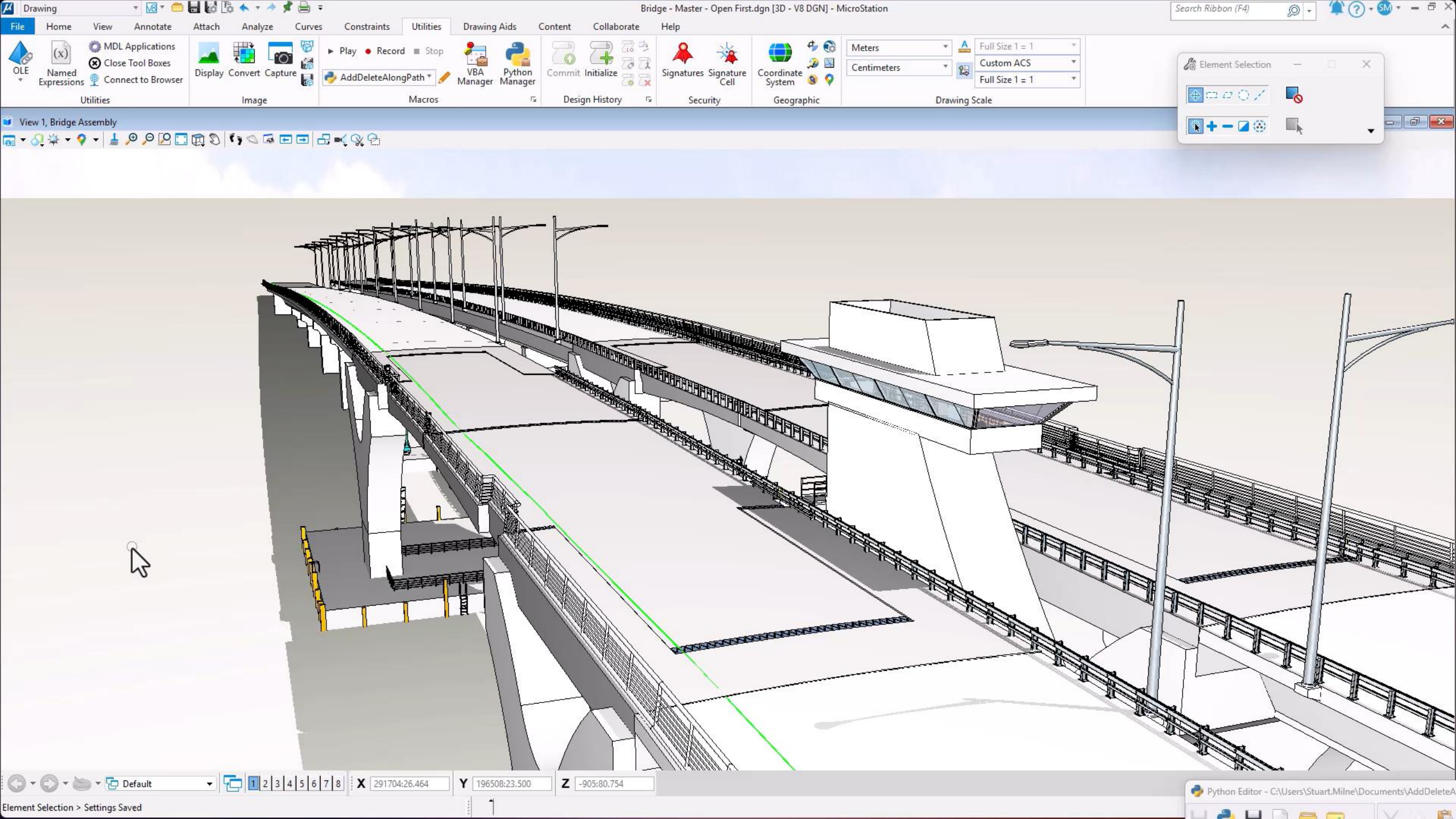
- 25.0 - Python Samples (153)
  - Geospatial





MicroStation 2025.00.01.62




Drawing
Bridge - Master - Open First.dgn [3D - V8 DGN] - MicroStation
Search Ribbon (F4)
File
Home
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Annotate
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Curves
Constraints
Utilities
Drawing Aids
Content
Collaborate
Help
OLE
Named Expressions
MDL Applications
Close Tool Boxes
Connect to Browser
Utilities
Display
Convert
Capture
Image
Play
Record
Stop
AddDeleteAlongPath
VBA Manager
Python Manager
Macros
Commit
Initialize
Design History
Signatures
Signature Cell
Security
Coordinate System
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Centimeters
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Custom ACS
Full Size 1 = 1
Drawing Scale
Element Selection
View 1, Bridge Assembly
Default
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Y 196508:23.500
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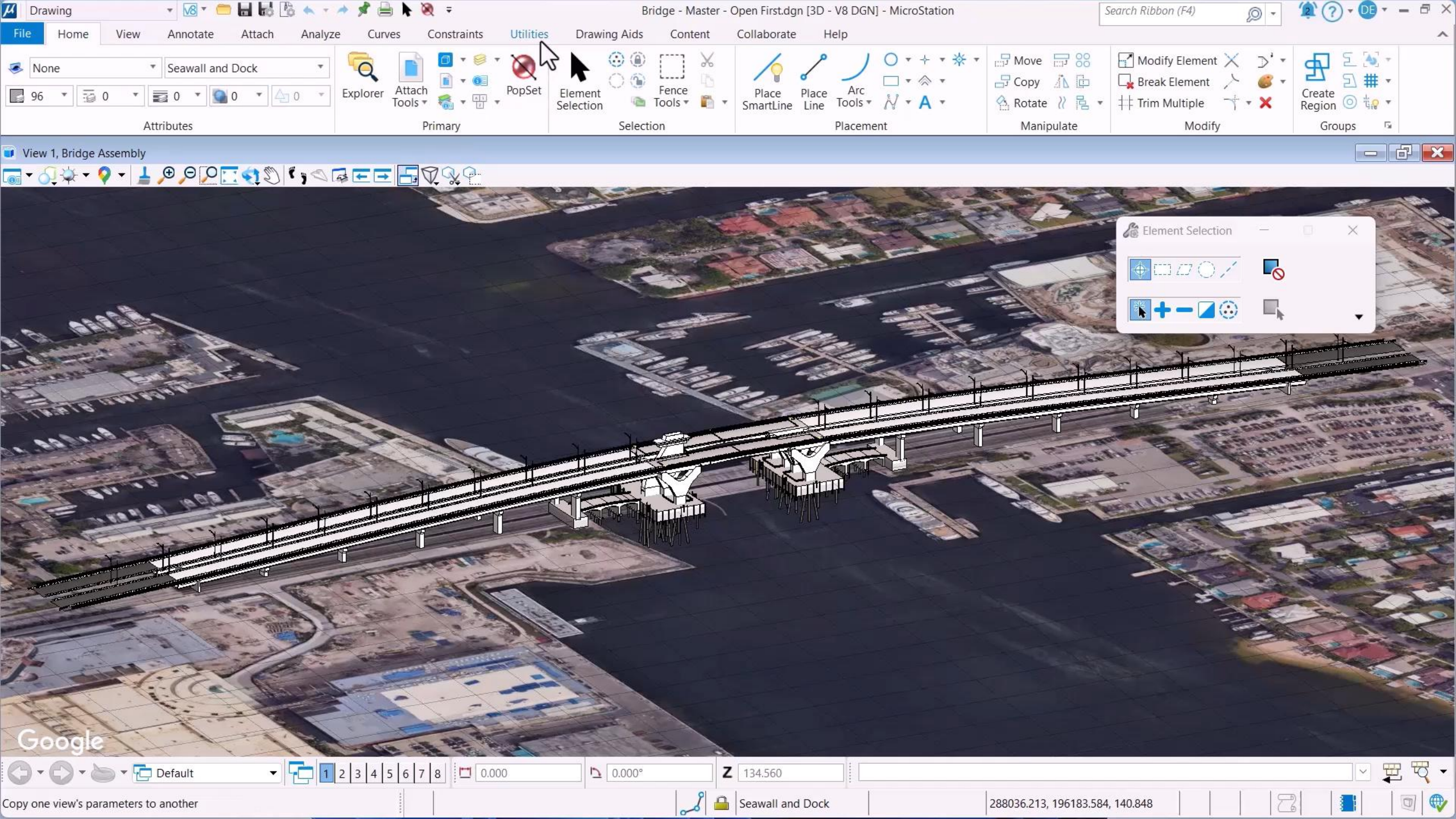
Element Selection > Settings Saved
Python Editor - C:\Users\Stuart.Milne\Documents\AddDeleteA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Utilities
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Content
Collaborate
Help
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Seawall and Dock
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Attach Tools
PopSet
Primary
Element Selection
Fence Tools
Selection
Place SmartLine
Place Line
Arc Tools
Placement
Move
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Manipulate
Modify Element
Break Element
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Create Region
Groups
View 1, Bridge Assembly
Element Selection
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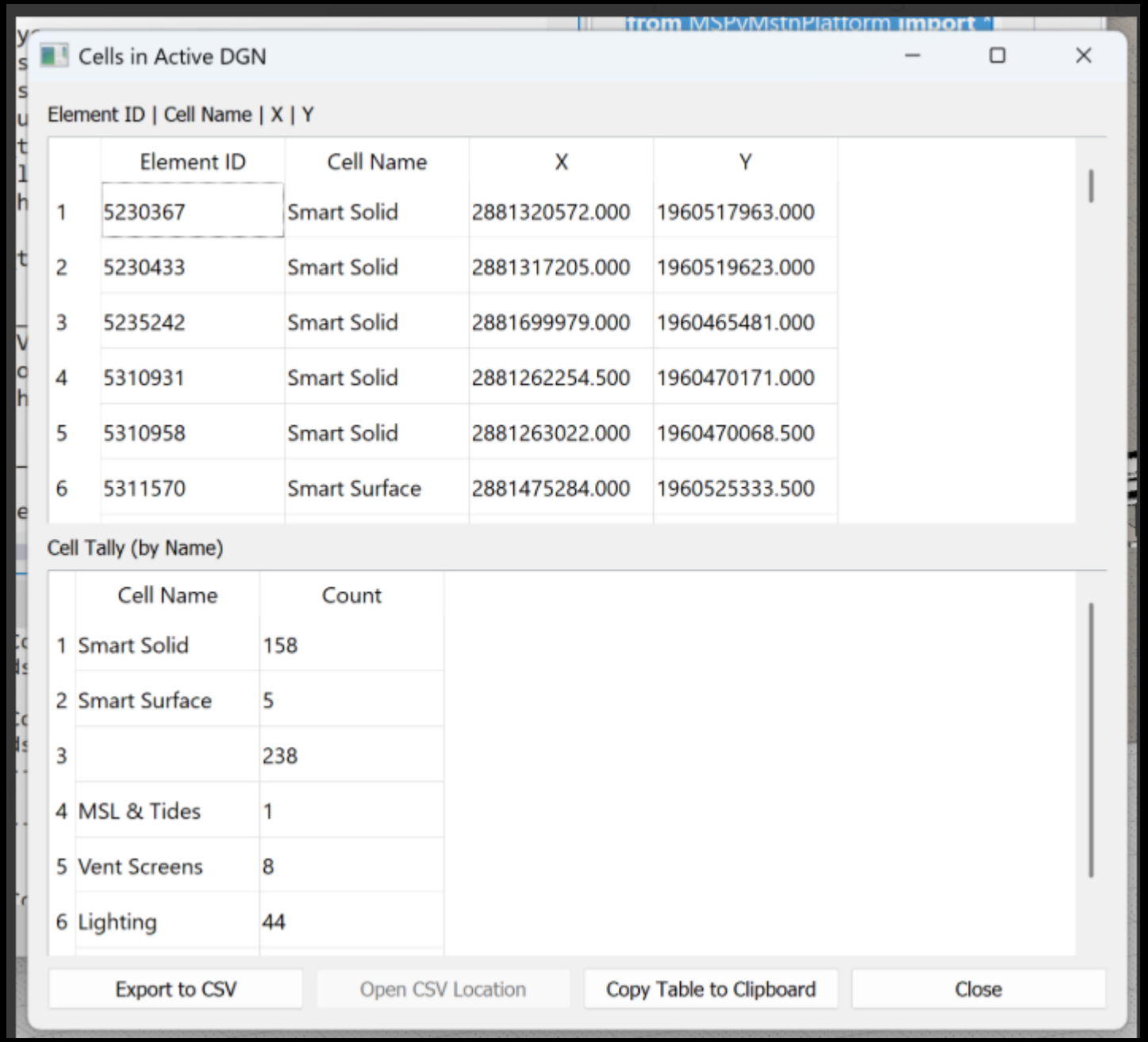
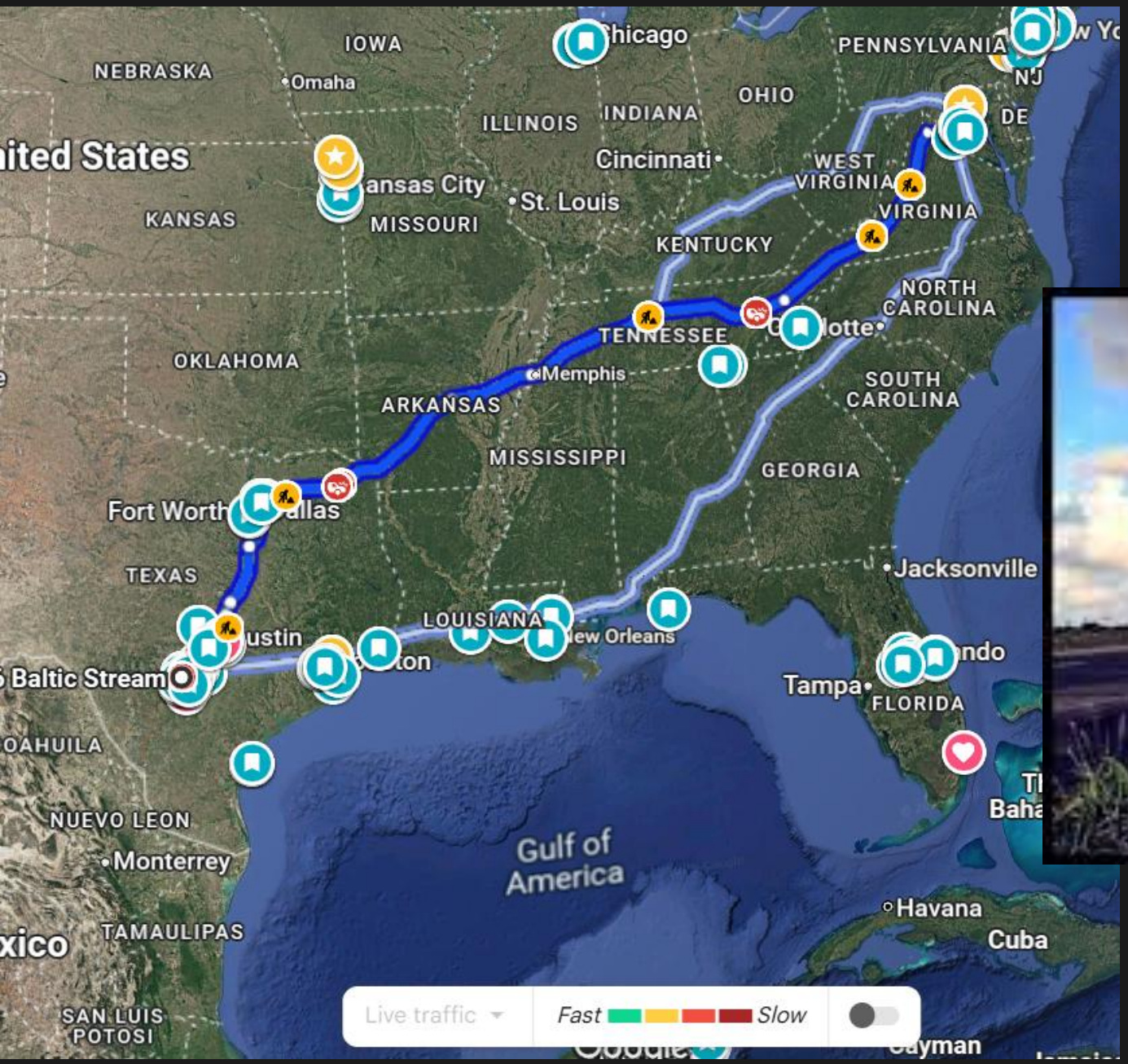
Copy one view's parameters to another
Seawall and Dock
288036.213, 196183.584, 140.848



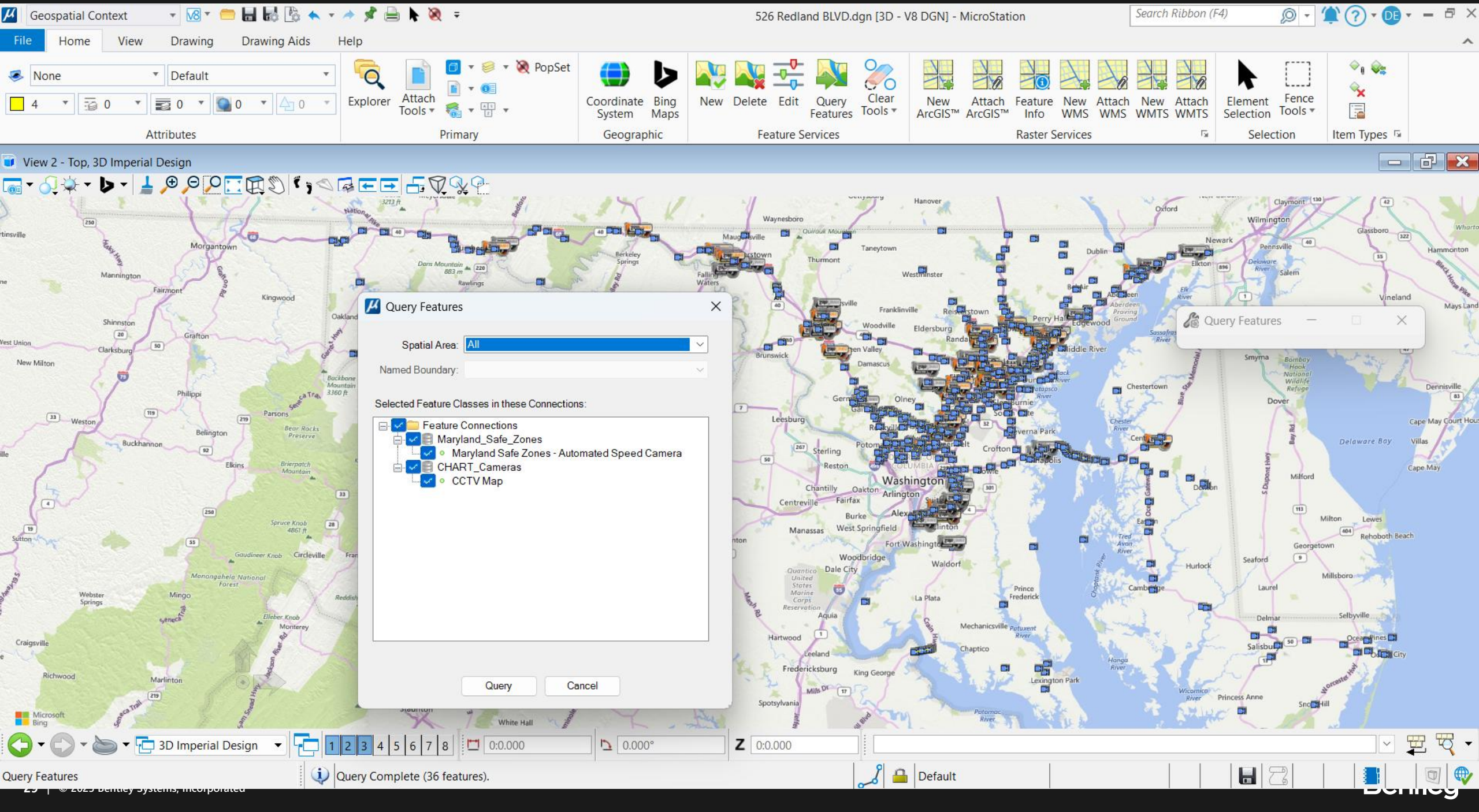
Design in Context

MicroStation’s Geospatial Foundation

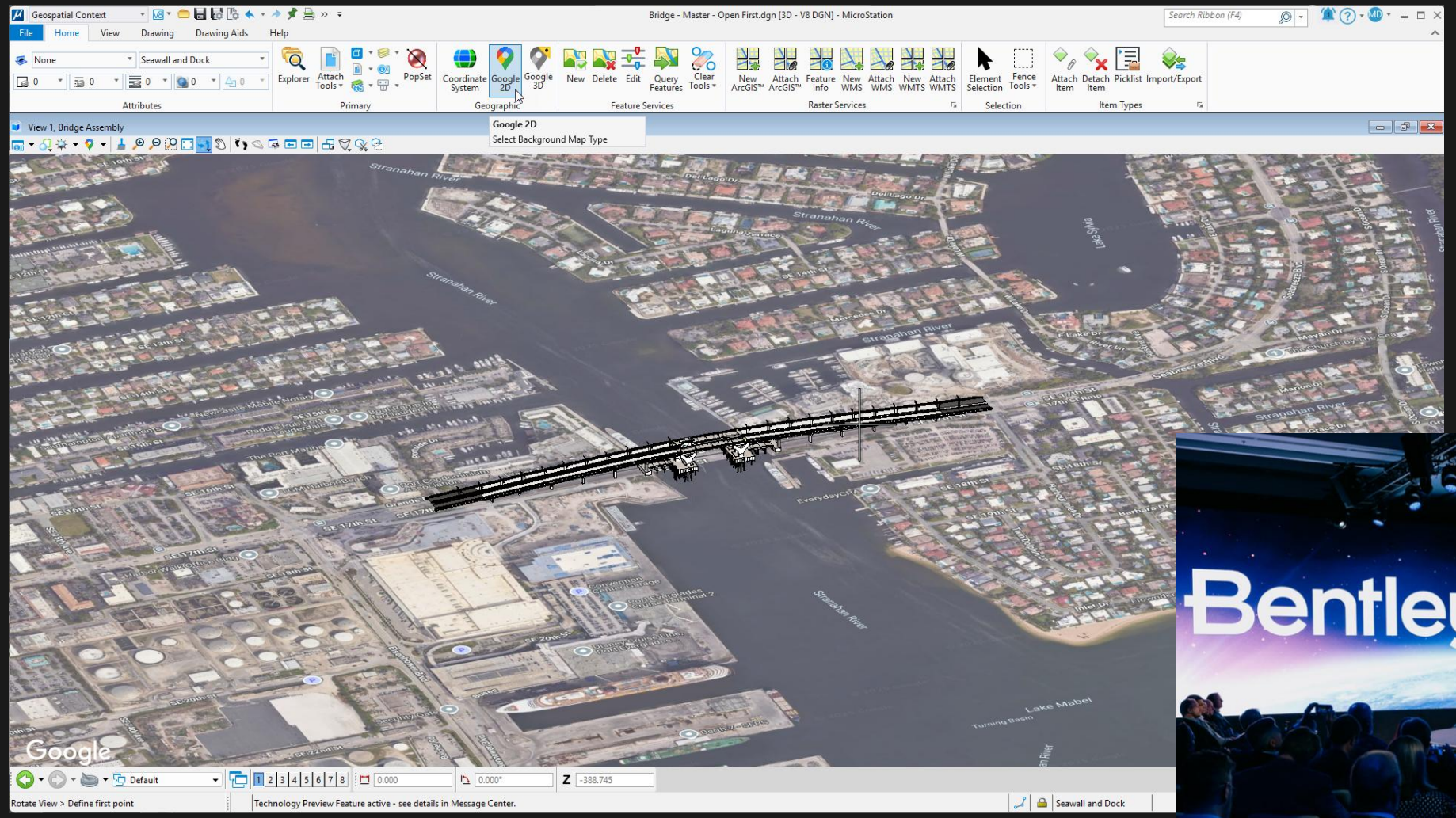
- MicroStation 2023
  - Map and Feature Services
- MicroStation 2024
  - Query and Clear Features
  - Shp import/export

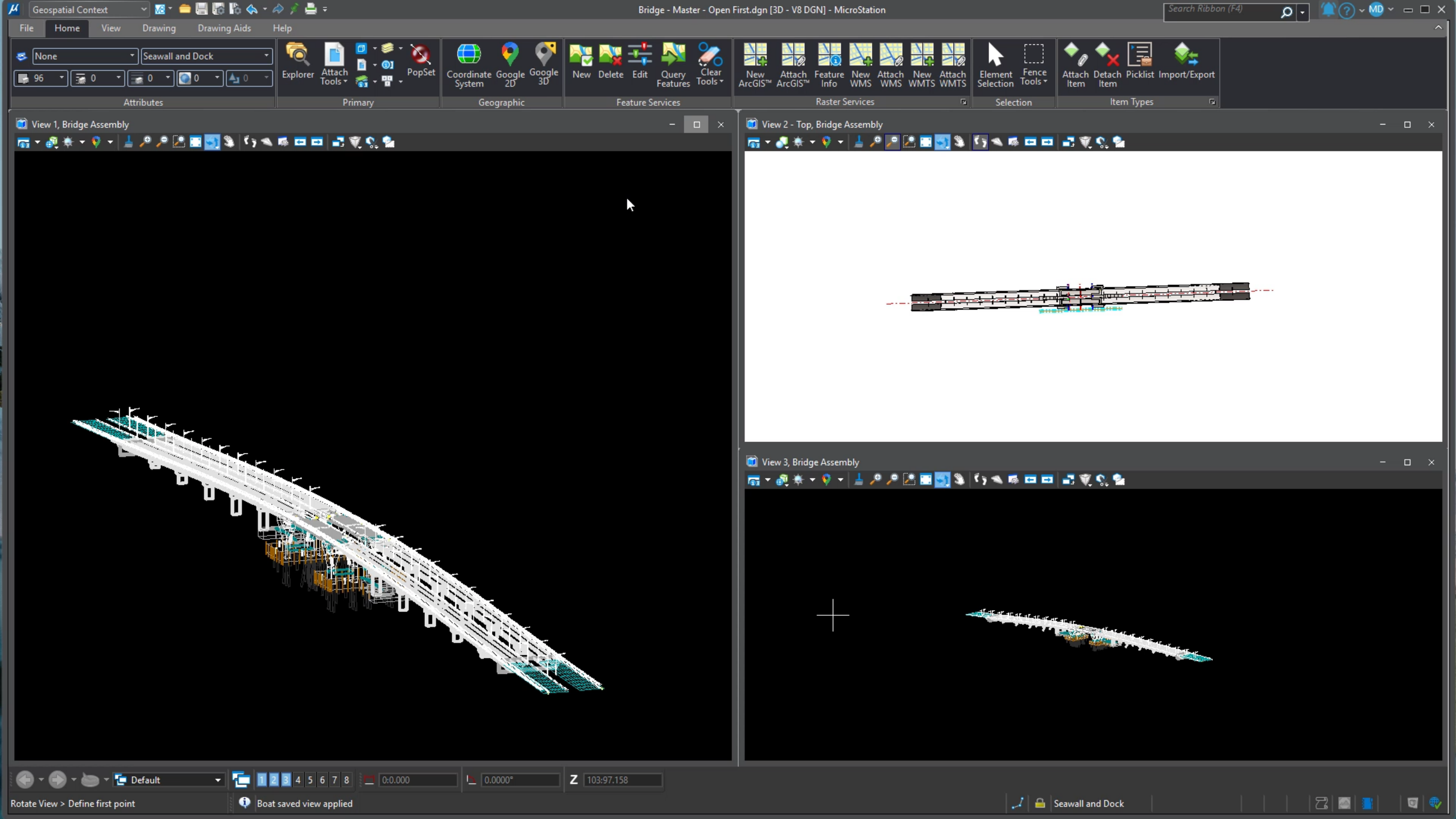


Bentley


Geospatial Context
526 Redland BLVD.dgn [3D - V8 DGN] - MicroStation
Search Ribbon (F4)
File
Home
View
Drawing
Drawing Aids
Help
None
Default
Explorer
Attach Tools
PopSet
Coordinate System
Bing Maps
New
Delete
Edit
Query Features
Clear Tools
New ArcGIS™
Attach ArcGIS™
Feature Info
New WMS
Attach WMS
New WMTS
Attach WMTS
Element Selection
Fence Tools
Item Types
Attributes
Primary
Geographic
Feature Services
Raster Services
Selection
View 2 - Top, 3D Imperial Design
Query Features
Spatial Area:
All
Named Boundary:
Selected Feature Classes in these Connections:
Feature Connections
Maryland_Safe_Zones
Maryland Safe Zones - Automated Speed Camera
CHART_Cameras
CCTV Map
Query
Cancel
Query Features
3D Imperial Design
Query Complete (36 features).
Default

Google Maps Integration (replacement of Bing Maps)




Geospatial Context
Bridge - Master - Open First.dgn [3D - V8 DGN] - MicroStation
Search Ribbon (F4)
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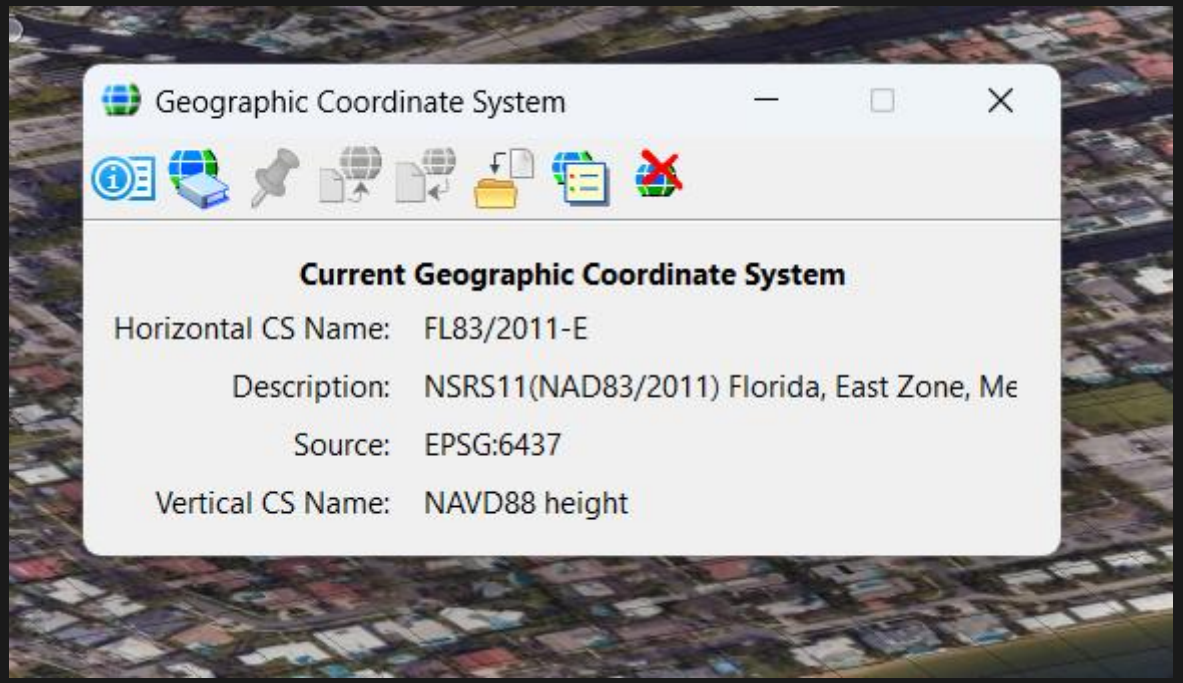
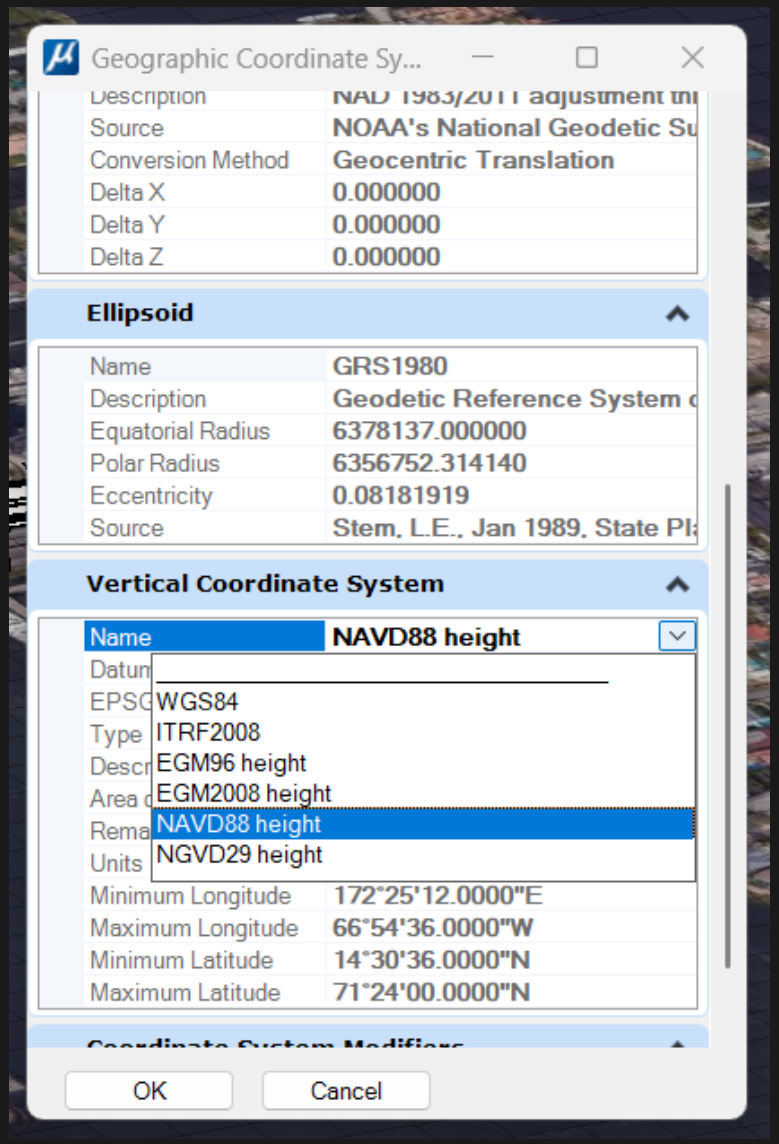
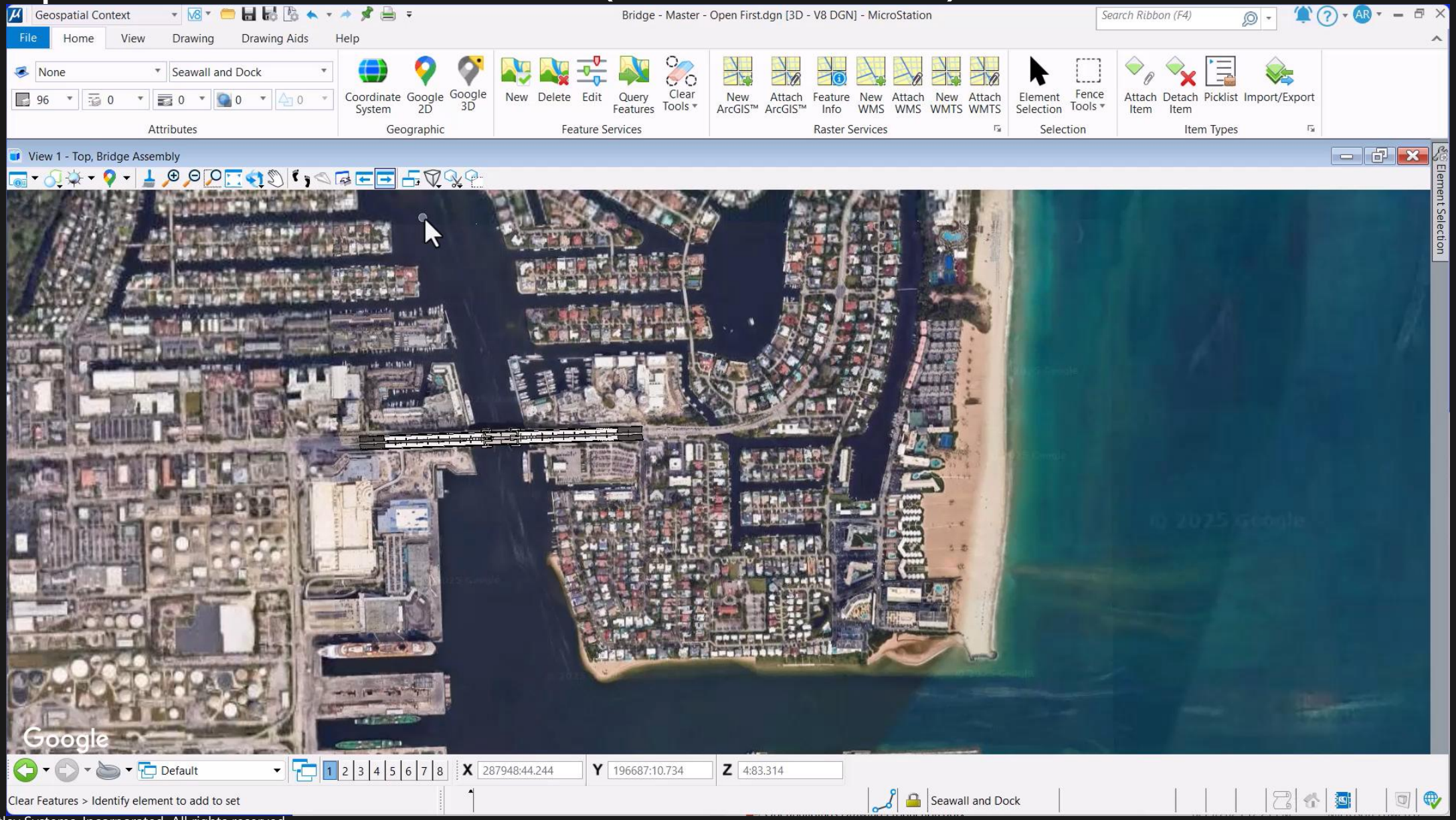
Seawall and Dock
Attributes
Explorer
Attach Tools
PopSet
Primary
Coordinate System
Google 2D
Google 3D
Geographic
New
Delete
Edit
Query Features
Clear Tools
Feature Services
New ArcGIS™
Attach ArcGIS™
Feature Info
New WMS
Attach WMS
New WMTS
Attach WMTS
Raster Services
Element Selection
Fence Tools
Selection
Attach Item
Detach Item
Picklist
Import/Export
Item Types
View 1, Bridge Assembly
View 2 - Top, Bridge Assembly
View 3, Bridge Assembly
Default
Z
103:97.158
Rotate View > Define first point
Boat saved view applied
Seawall and Dock

2025 - Vertical Datum Information

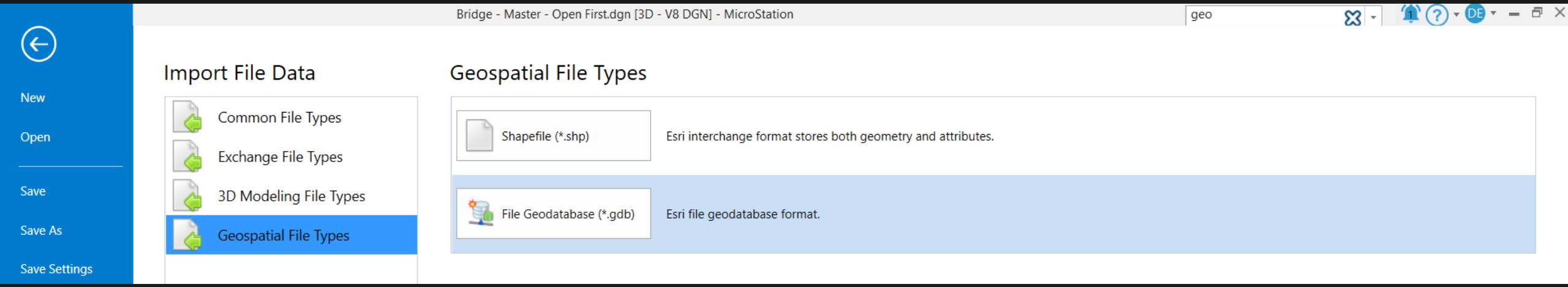


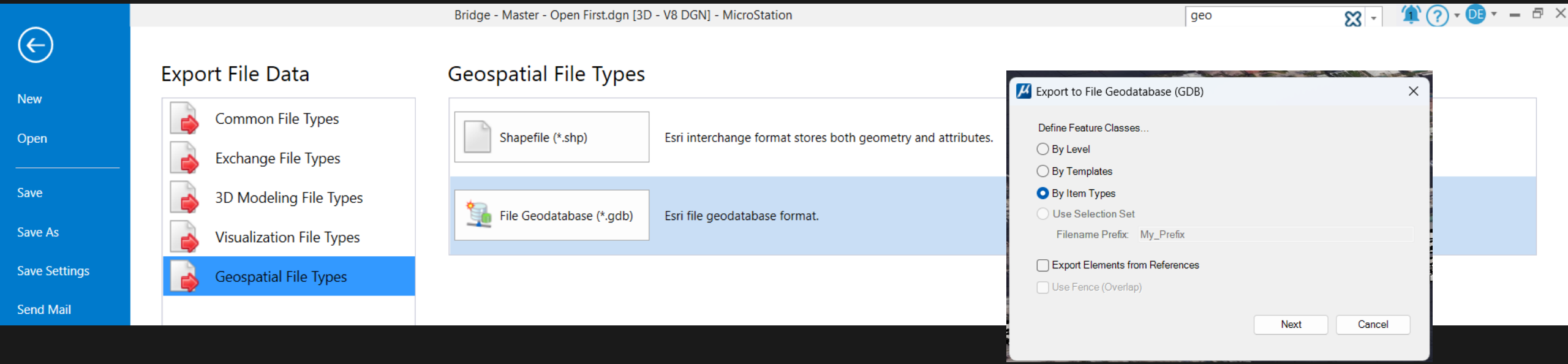


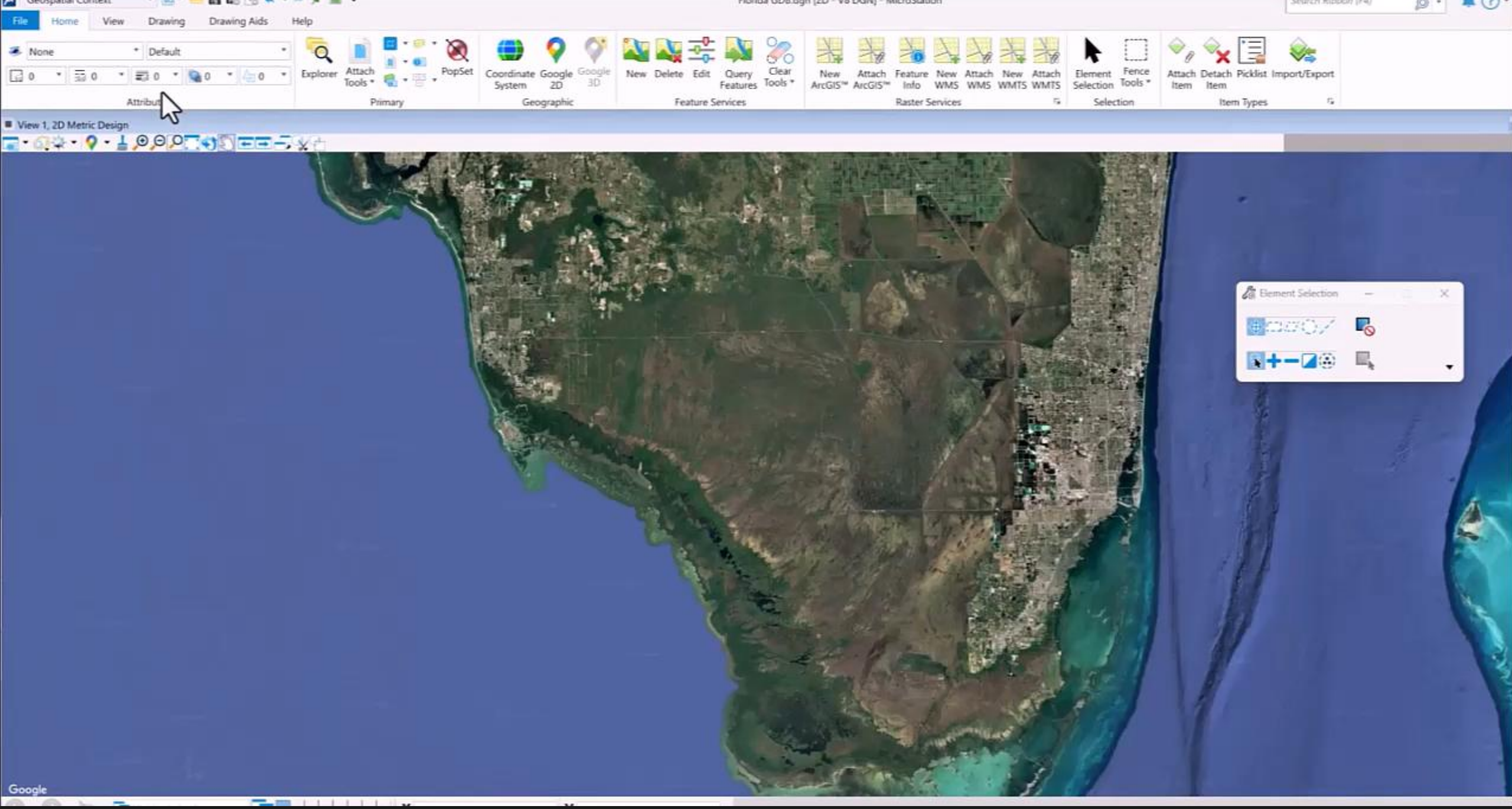
Independent zoom for cells (Cell Fixed Size)



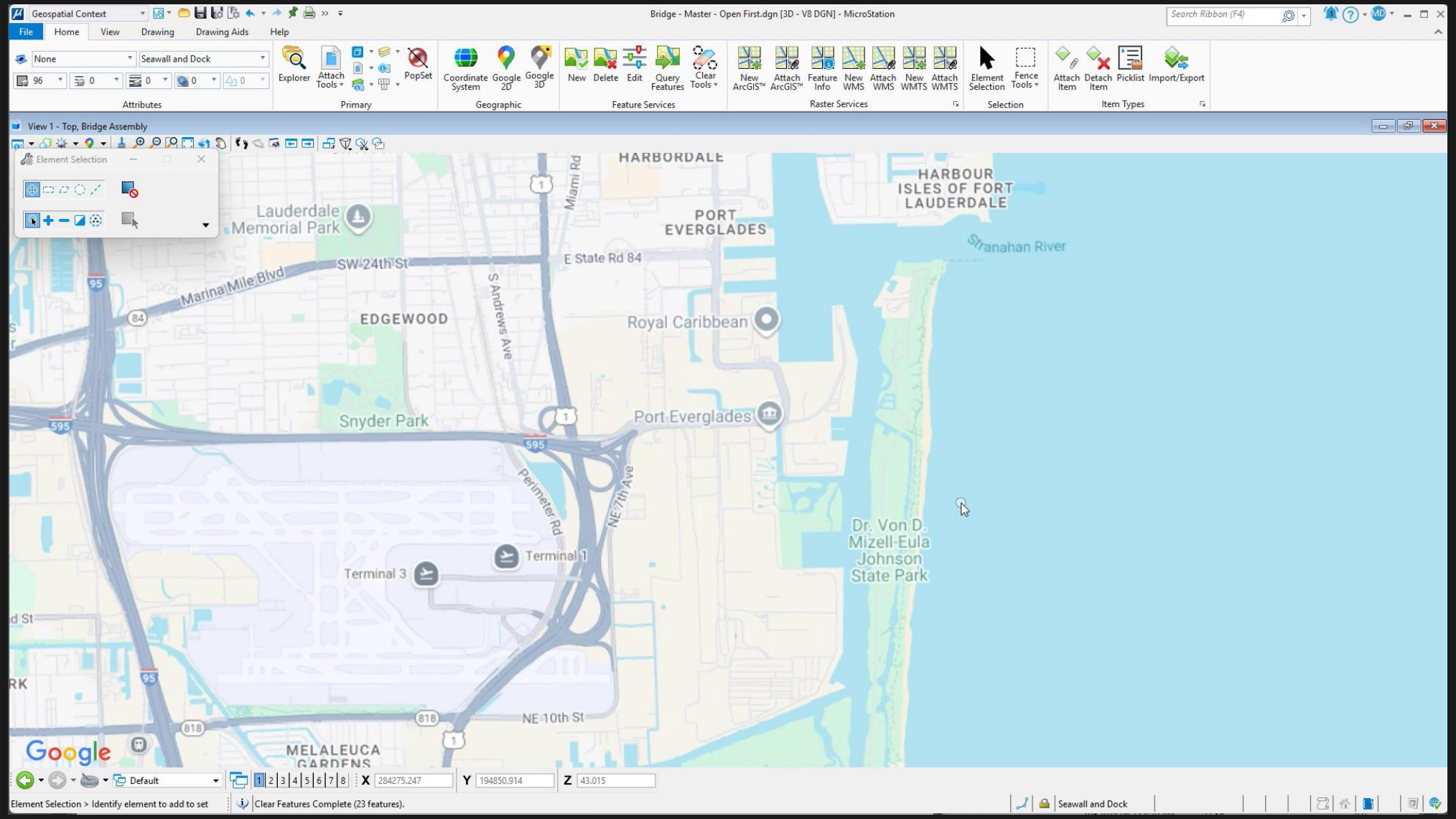
Esri File Geodatabase Support – Import/Export





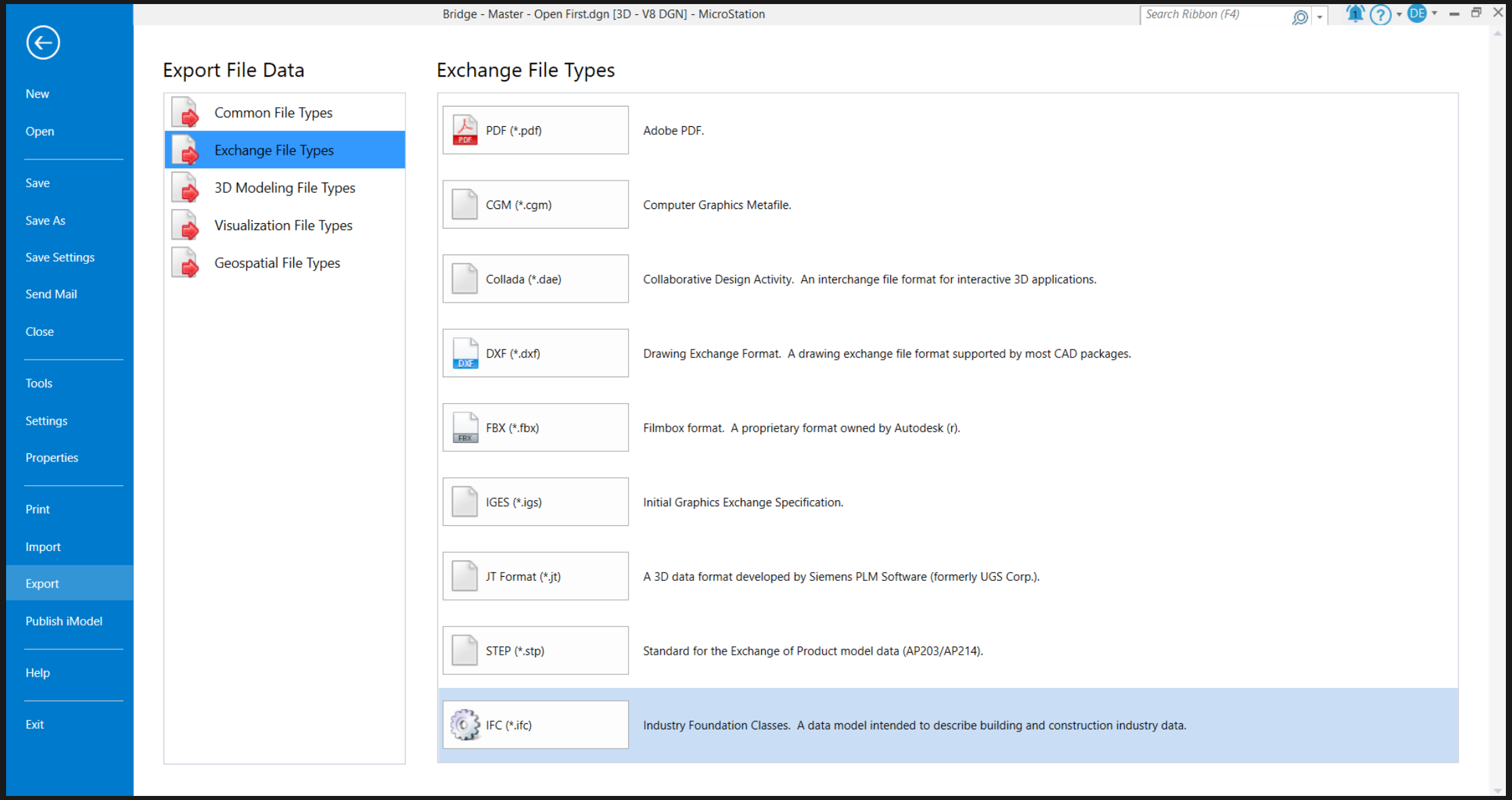


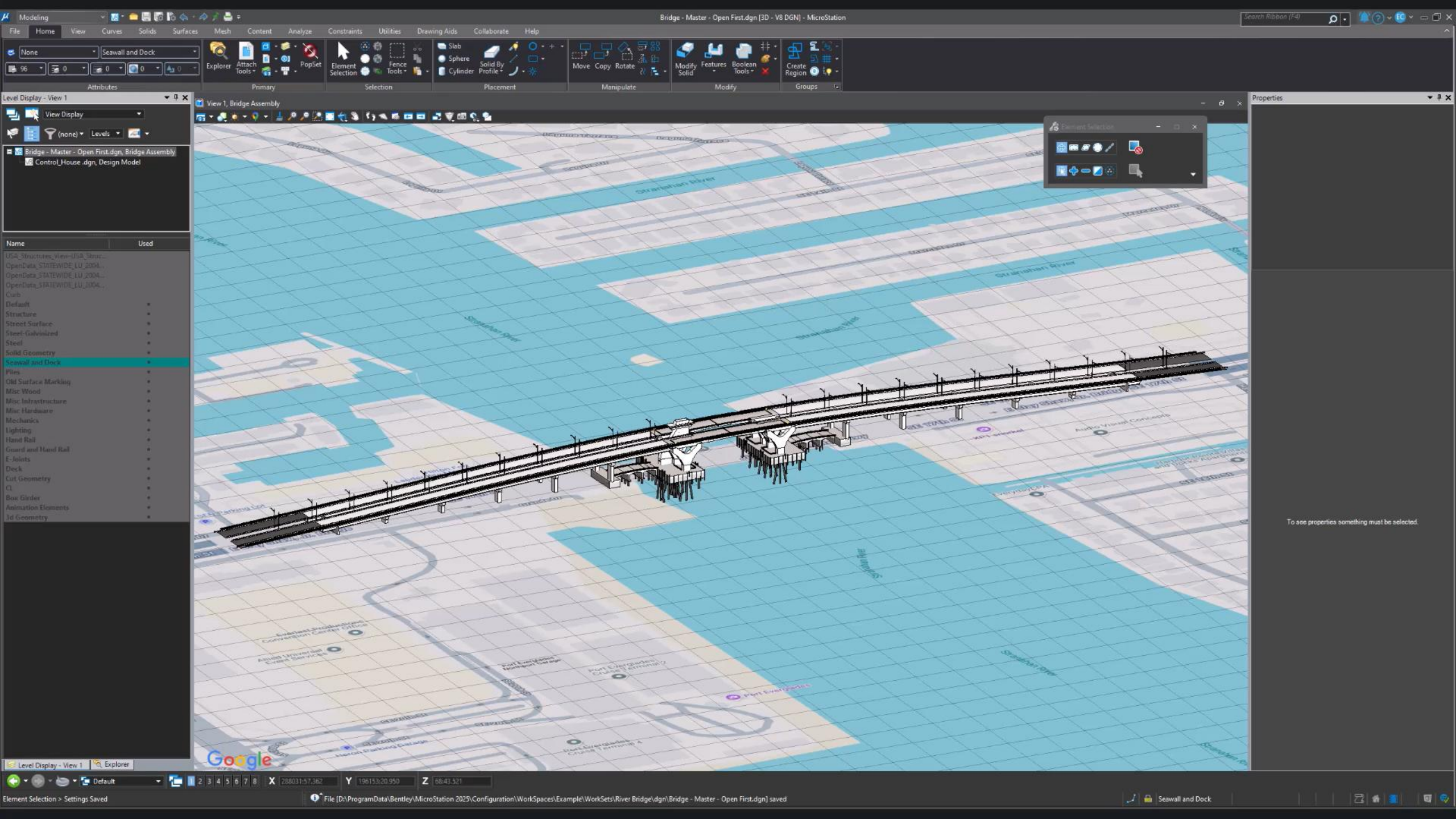
2025.00.01.62 - WFS Blyncsy integration



Interoperability & Collaboration

2025 – IFC Export and workflow




Bridge - Master - Open First.dgn [3D - V8 DGN] - MicroStation
Modeling
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Surfaces
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Utilities
Drawing Aids
Collaborate
Help
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Attach Tools
PopSet
Element Selection
Fence Tools
Slab
Sphere
Cylinder
Solid By Profile
Move
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Rotate
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Boolean Tools
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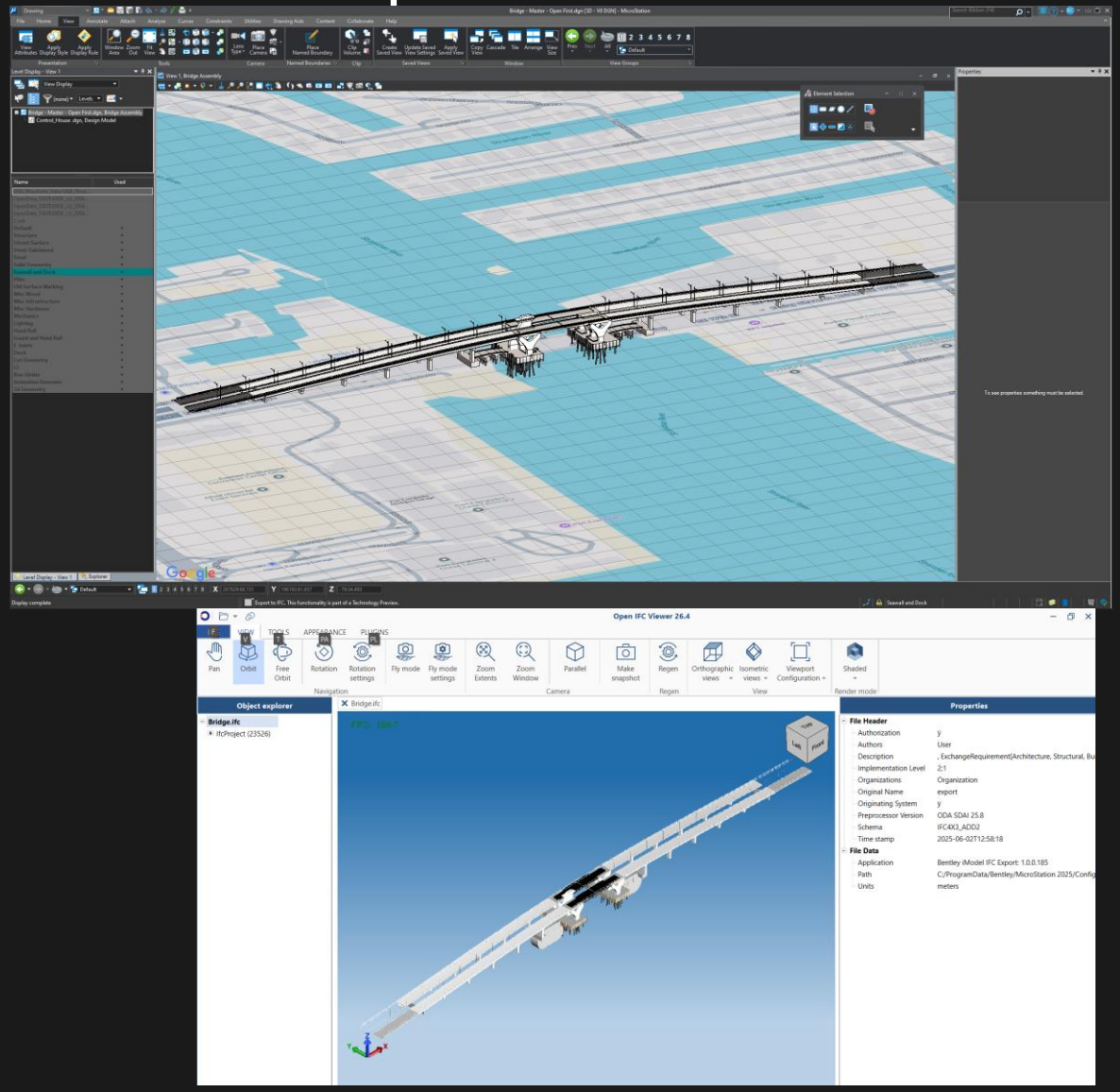
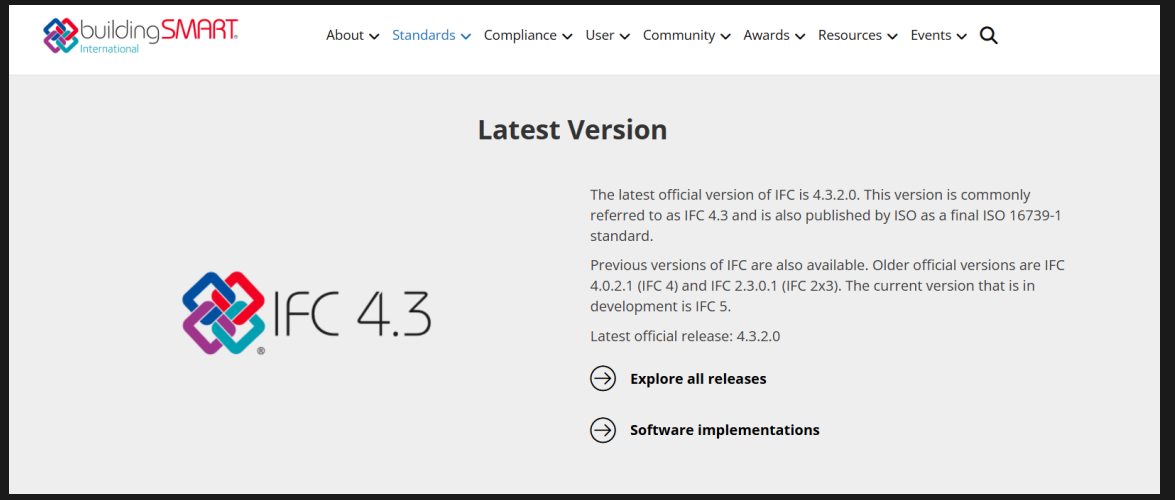
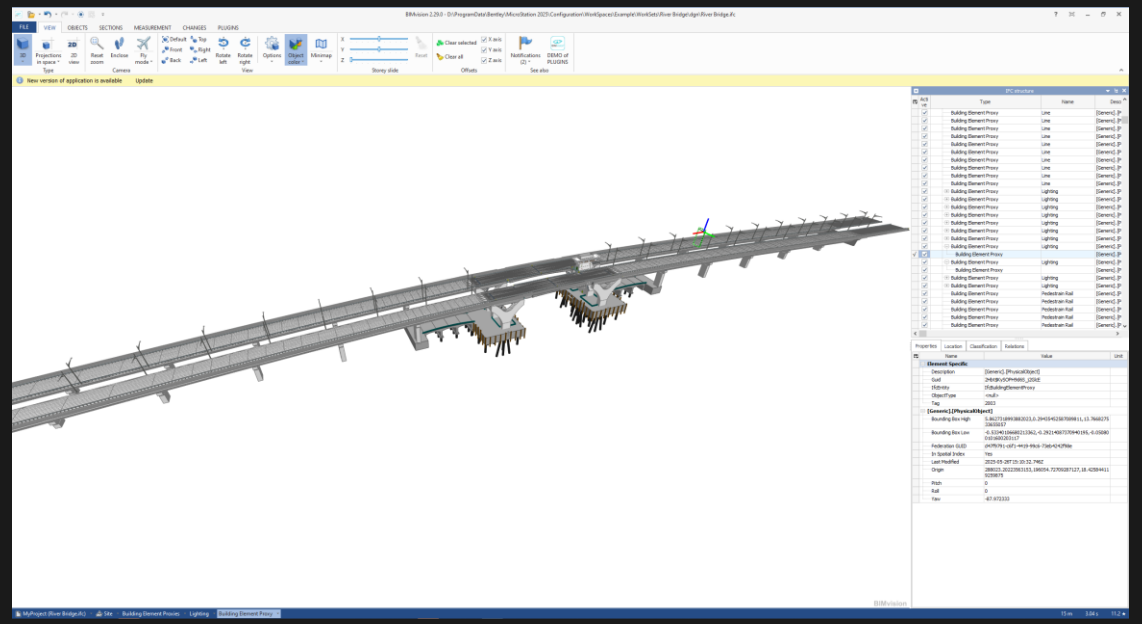
Attributes
Primary
Selection
Placement
Manipulate
Modify
Groups
Level Display - View 1
View Display
Bridge - Master - Open First.dgn, Bridge Assembly
Control_House .dgn, Design Model
Name
Used
Default
Structure
Street Surface
Steel-Galvinized
Steel
Solid Geometry
Seawall and Dock
Piles
Old Surface Marking
Misc Wood
Misc Infrastructure
Misc Hardware
Mechanics
Lighting
Hand Rail
Guard and Hand Rail
E-Joints
Deck
Cut Geometry
Box Girder
Animation Elements
3d Geometry
View 1, Bridge Assembly
Element Selection
Properties
To see properties something must be selected.
Google
Level Display - View 1
Explorer
Default
Element Selection > Settings Saved
File [D:\ProgramData\Bentley\MicroStation 2025\Configuration\WorkSpaces\Example\WorkSets\River Bridge\dgn\Bridge - Master - Open First.dgn] saved
Seawall and Dock

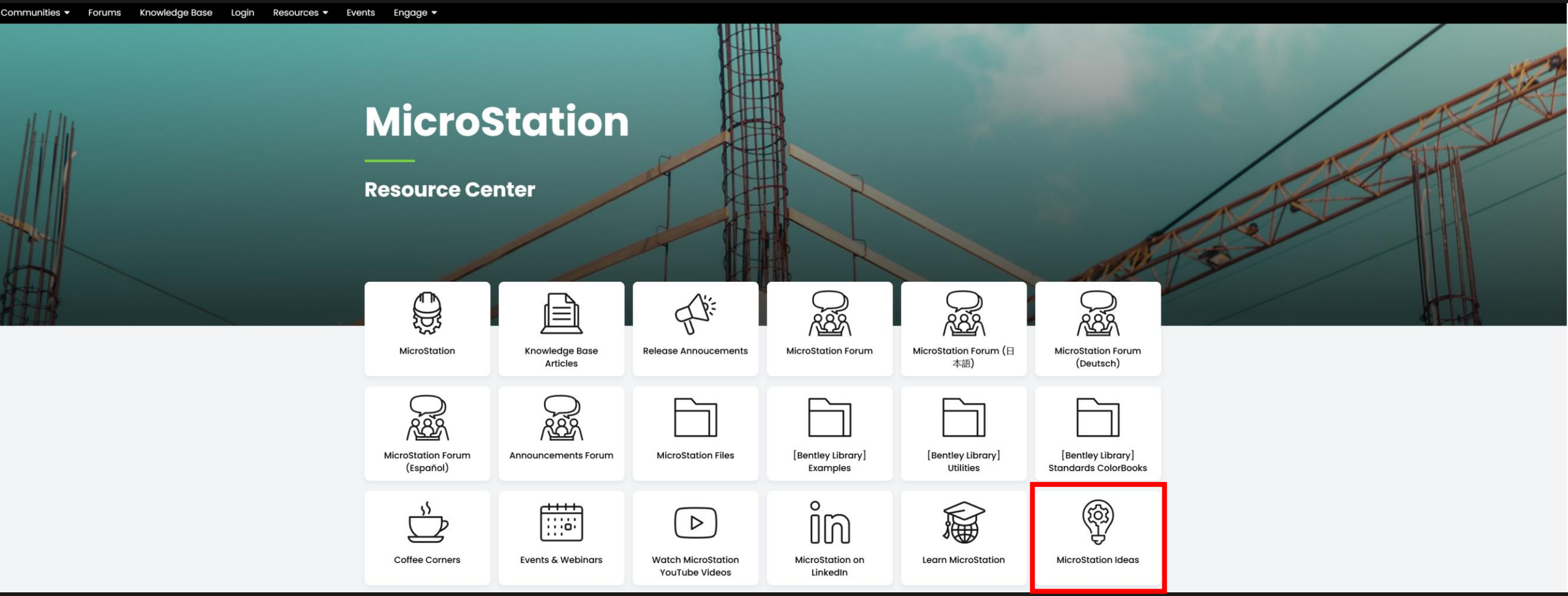
2025 – IFC Export



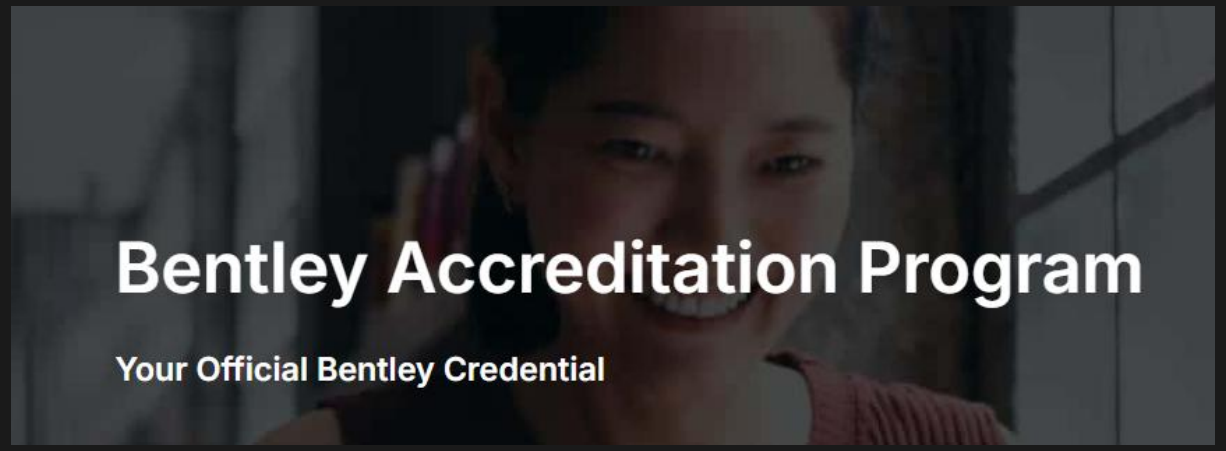


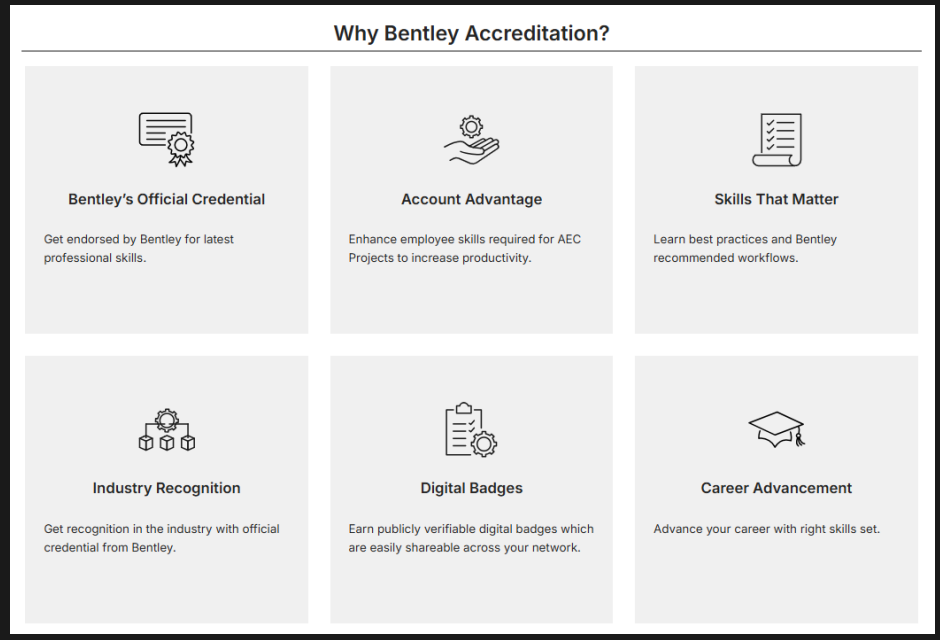


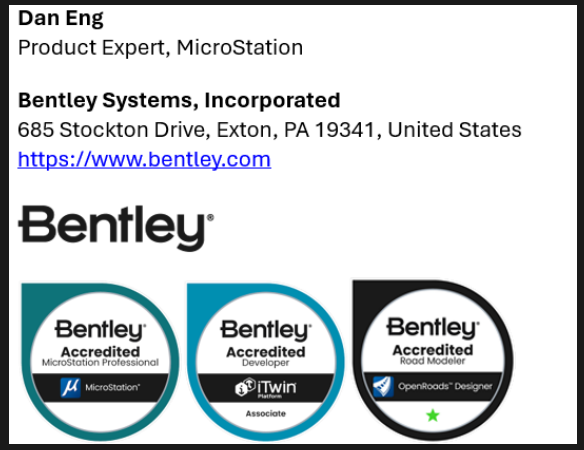
MicroStation Ideas Portal

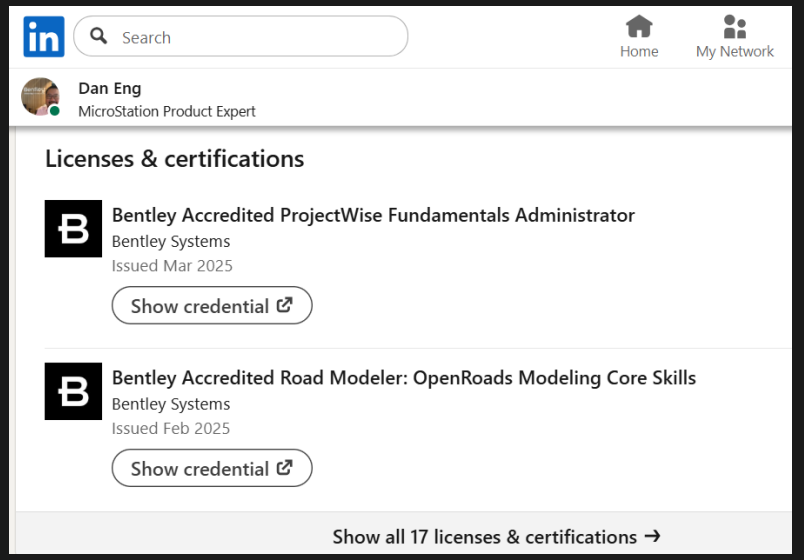


Accreditation



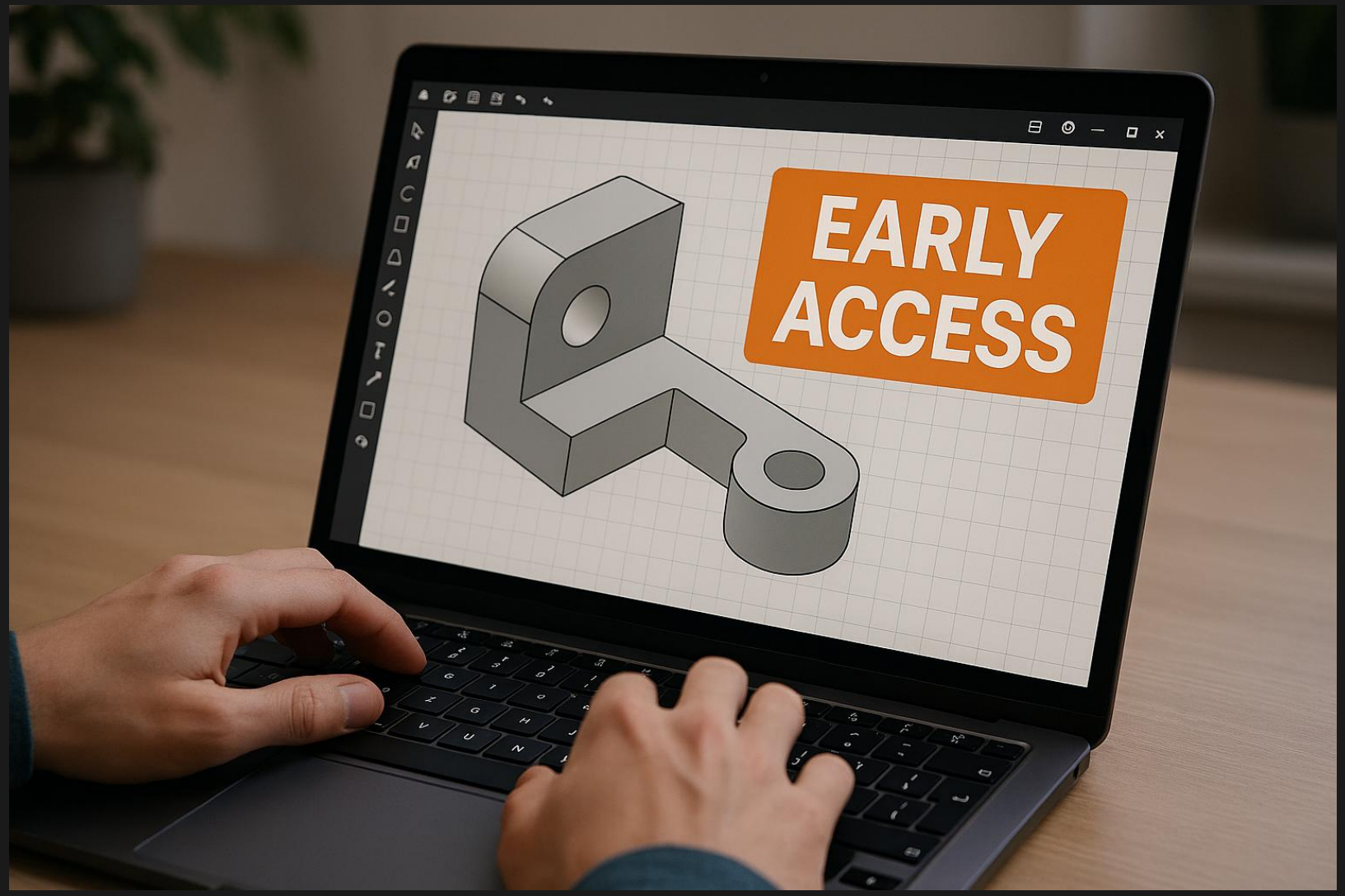






Ways to Participate and interact with the MicroStation Team

- Early Access Program
  - Non-disclosure Agreement (NDA)
  - Must have a MicroStation license
  - Able to access Nutanix environment



Product Research

Bentley | Software | Industries | Digital Twins | Support | Services | Company | Shop | Login | Lang

Home / Product Research

Join The Product Research Program!

Help Shape The Experience Of The Bentley Products You Use

Join Now

Why Product Research?

The challenges of infrastructure can be complex, but its software doesn't have to be. You are the expert in your field, and we need your help to stress-test our solutions against YOUR reality.

How Does It All Work?

The first step is to simply tell us you're willing to participate. If there is a match between your expertise and an upcoming product research activity, we'll contact you and arrange a time to meet with a researcher. You'll attend the online session, try out the product, and provide your feedback. Our product teams then use your input to improve the experience of the product you use.

What Will We Do?

Product Research sessions are virtual 1-on-1 sessions between a user and a researcher. A typical session lasts ~45 minutes and might include testing a prototype or exploring workflows. No preparation required!

What Is In It For You?

Your voice influences what gets built into the products you use. Be heard, share your feedback with the product team and get a glimpse of potential solutions.

Interested? Join Us In A Lab.

Join Now

Questions/Comments

Presenters

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MicroStation Product Manager
Tamicca.sellars@bentley.com

Dan Eng
MicroStation Product Expert
Dan.eng@bentley.com