Discover the Value in MicroStation V8*i* (SELECTseries 2)

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MicroStation V8*i* Core Capabilities

- Core capabilities enable infrastructure practitioners to…
  - **Interoperate** using information from multiple sources
  - **Design** intuitively based on common standards and processes
  - **Publish** high quality interactive deliverables and work packages

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MicroStation V8*i* Extending Your Value

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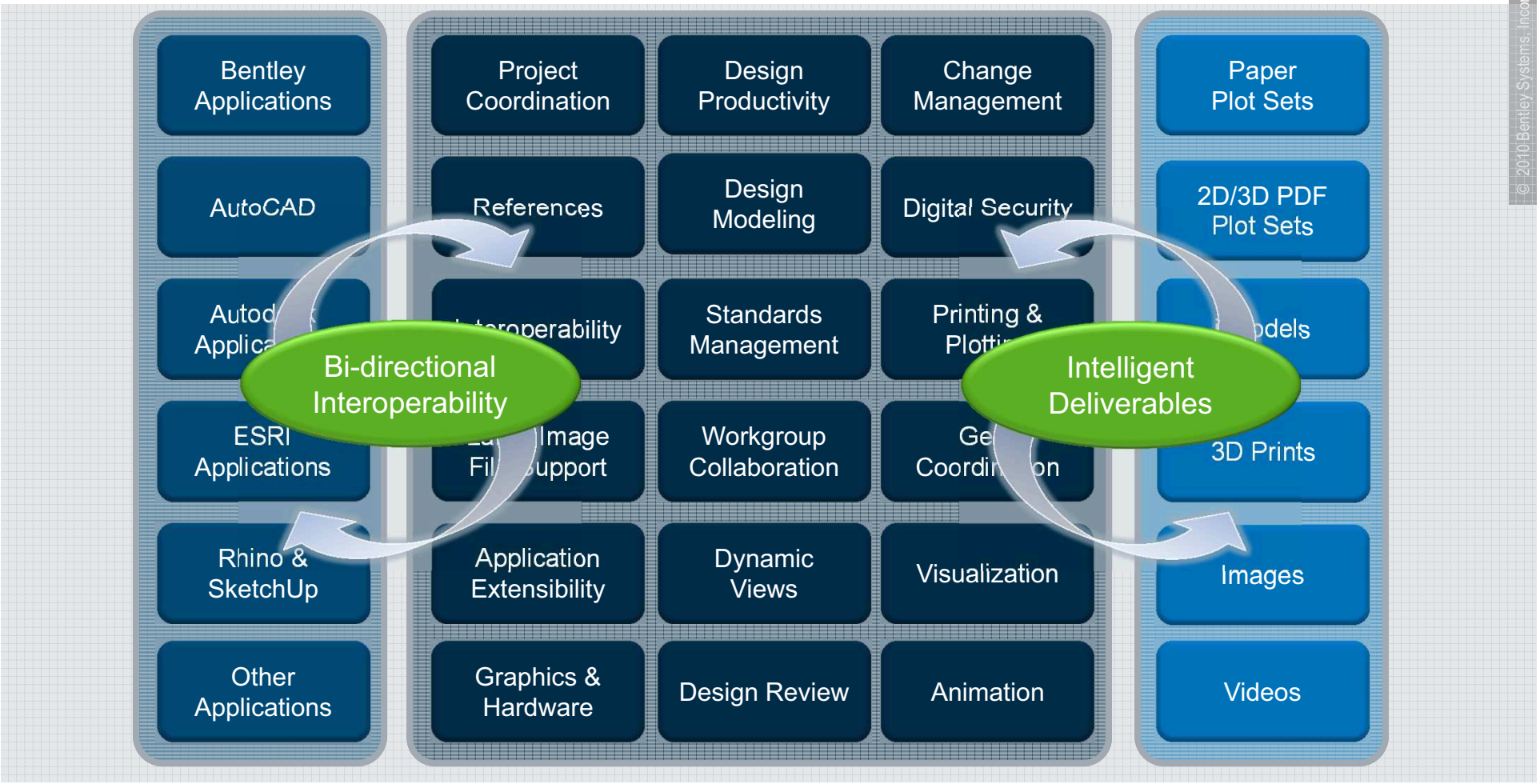
MicroStation V8*i* Extending Your Value



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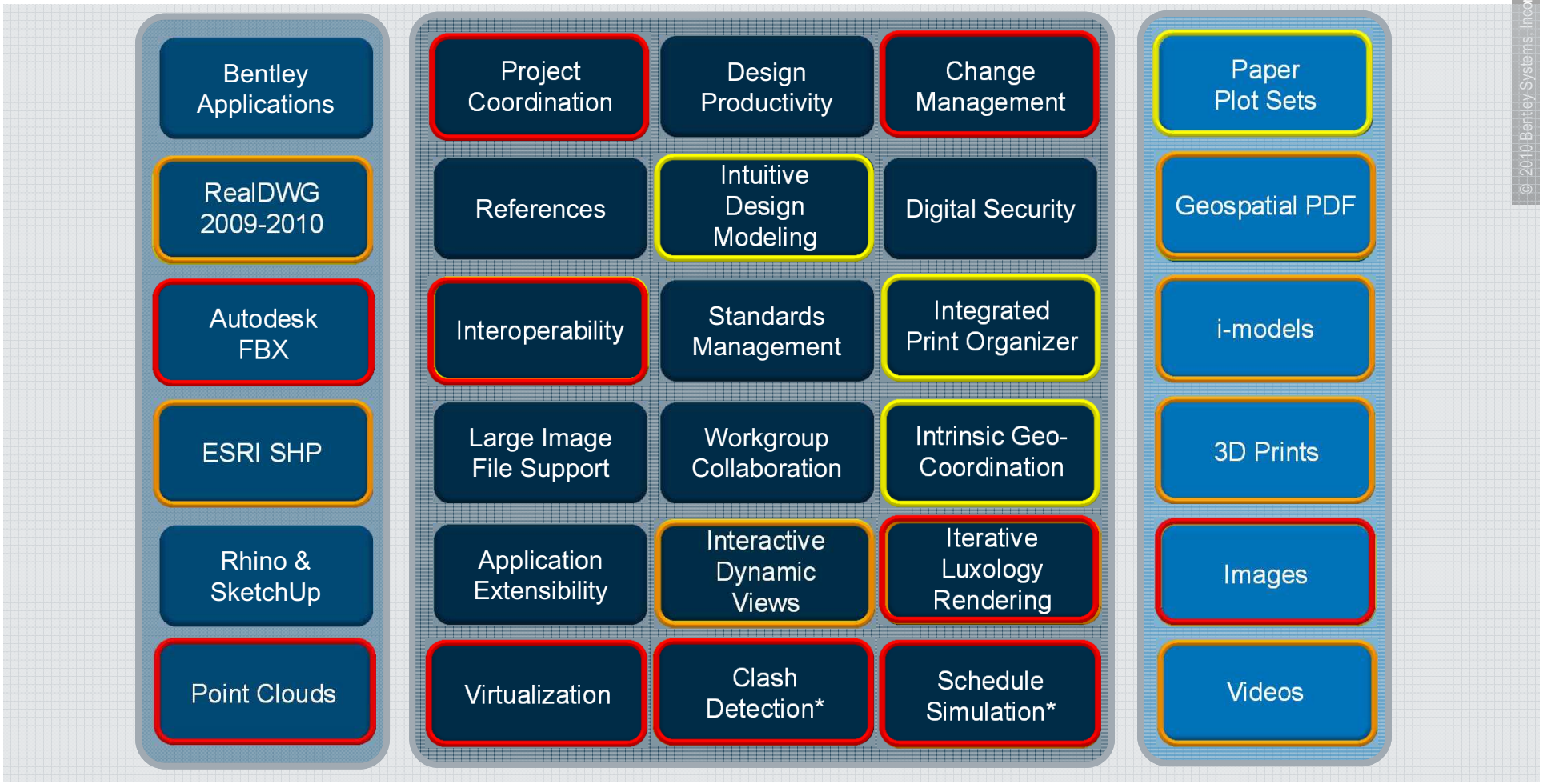
MicroStation V8*i* Extending Your Value



MicroStation V8*i* | **(SELECTseries 1)** | **(SELECTseries 2)**

* Requires ProjectWise Visa

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MicroStation V8*i*

November, 2008 – (V8.11.0)

- **Interoperable Software**
  - AutoCAD 2009
  - Import 3DM (Rhino)
  - Export OBJ
- **Intuitive Design Modeling**
  - Intuitive New Modeling tools
  - Precise Freeform Modeling tools
  - GenerativeComponents Extension
- **Interactive Dynamic Views**
  - Annotation and Detailing tools
  - Linked Sections
  - 3D Model Visualization
  - Display Styles
- **Integrated Print Organizer**
  - Print Styles
  - Multi sheet, hierarchal PDF Support
  - Print Organizer Client
- **Intrinsic Geo-Coordination**
  - Geospatial Referencing
  - Web Map Server Support
  - GPS Device Support
- **Iterative Luxology Rendering**
  - Physically Correct Materials
  - Light Manager
  - Render Setups
  - Distributed Rendering

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MicroStation V8*i* (SELECTseries 1)

November, 2009 – (V8.11.7)

- **Interoperable Software**
  - Autodesk ® RealDWG 2009
  - Autodesk ® Object Enablers
  - ESRI SHP Files
  - Item Browser Dialog
- **Intuitive Design Modeling**
  - 3D Printing
  - GenerativeComponents Extension
- **Interactive Dynamic Views**
  - Drawing Automation
  - Drawing Model
- **Intrinsic Geo-Coordination**
  - Geospatial PDF
- **Iterative Luxology Rendering**
  - Complete integration
  - Camera Speed Control
  - Animation Tone Mapping
- **Insightful Design Review**
  - Overlay files
  - Mark up Manager
  - i-models

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MicroStation V8*i* (SELECTseries 2)

July, 2010 – (V8.11.7)

- **Interoperable Software**
  - Point Clouds
  - Autodesk ® RealDWG 2010
  - Autodesk ® FBX
- **Intuitive Design Modeling**
  - GenerativeComponents Extension
- **Intrinsic Geo-Coordination**
  - Define Placemark Monuments
- **Iterative Luxology Rendering**
  - Render Output Channels
  - User Interface Optimization
  - Animation improvements
- **Insightful Design Review**
  - ProjectWise Clash Detection
  - ProjectWise Schedule Simulation
- **Improved Deployments**
  - Citrix Ready Verification
  - Update Installs

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MicroStation V8*i* (SELECTseries 2)

- **Increased Productivity**
  - View Different Models
  - Reference Activation
  - Raster References as Elements
  - Edit Text in Cells
  - Coordinate Cell
  - ALT+DATA to Match Settings
  - Display Sets
  - Display Styles
  - Change Reference Presentation
  - Color Preferences
  - New Color Books
  - Drag and Drop to Attribute Pickers
  - Drag selection support during manipulate commands
  - Selection Overlap mode is right to left
  - Quick Info
  - Pin and Roll Tabs
  - Transparent Toolboxes
  - Dialog Docking
  - Right click context menu
  - Eye Dropper
  - On The Fly Links
  - Reference View Flags
  - Remap Elements in Level Manager
  - Snapmode as preference
  - Jump to Active Level
  - Element Selection Tabs
  - Named Groups (Quicksets) for References
  - Save As Image with Display Styles

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MicroStation V8*i* Product Line

- MicroStation PowerDraft V8*i*
  - is a professional-level product used for production 2D drafting and detailing for creating, editing, and manipulating drawings and models in DGN or DWG format.
- MicroStation GenerativeComponents Extension V8*i*
  - is an associative parametric modeling system used by architects and engineers to automate design processes and accelerate design iterations.
  - enables architects and engineers to pursue designs and achieve results that were virtually unthinkable before.

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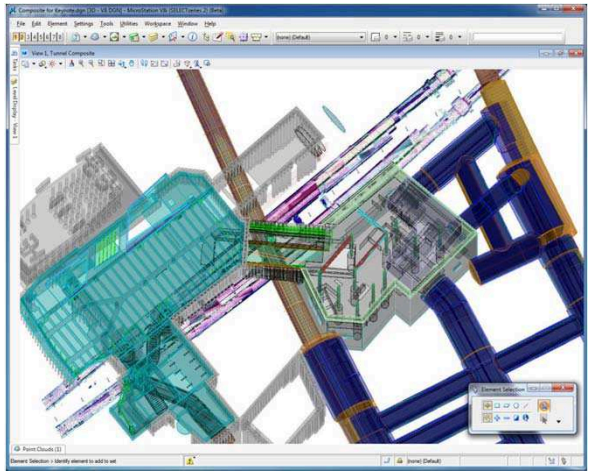
MicroStation V8*i* (SELECTseries 2)

Interoperable Software

MicroStation V8*i* (SELECTseries 2)

- Interoperable Software
  - Autodesk ® RealDWG Libraries
  - Autodesk ® Object Enablers
  - ESRI SHP Files
  - Item Browser Dialog
  - Import 3DM (Rhino)
  - Export OBJ



- New in MicroStation V8*i* (SELECTseries 2)
  - Point Clouds
  - Autodesk ® RealDWG Libraries
    - 2010 Delivered with product as default for (SELECTseries 2)
    - 2009 Delivered with product as option for (SELECTseries 2)
    - 2011 Will be available as an update for (SELECTseries 2) following the release
  - Autodesk ® FBX file support

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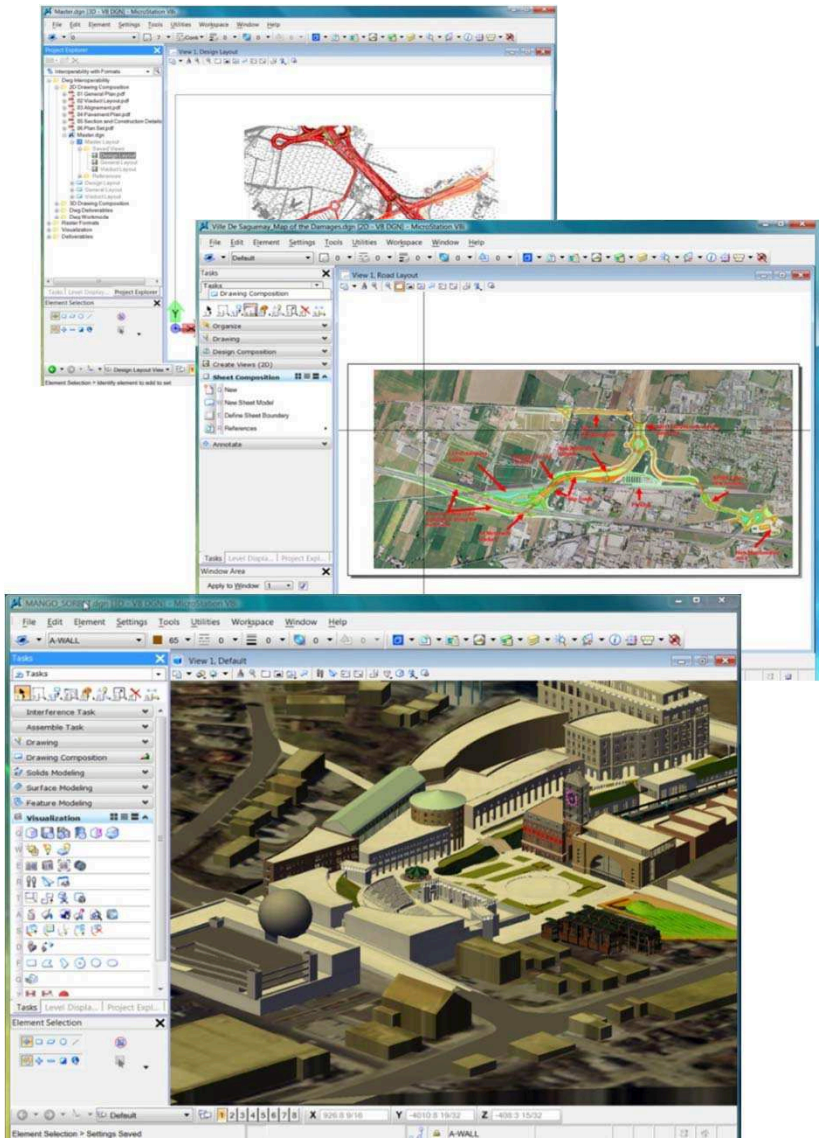
Why Interoperate?

- Share work efficiently across a multi-discipline team that has diverse project needs
- Develop designs accurately in full project context without unnecessary rework
- Maintain project intelligence and avoid lossy translations as information is transferred between applications



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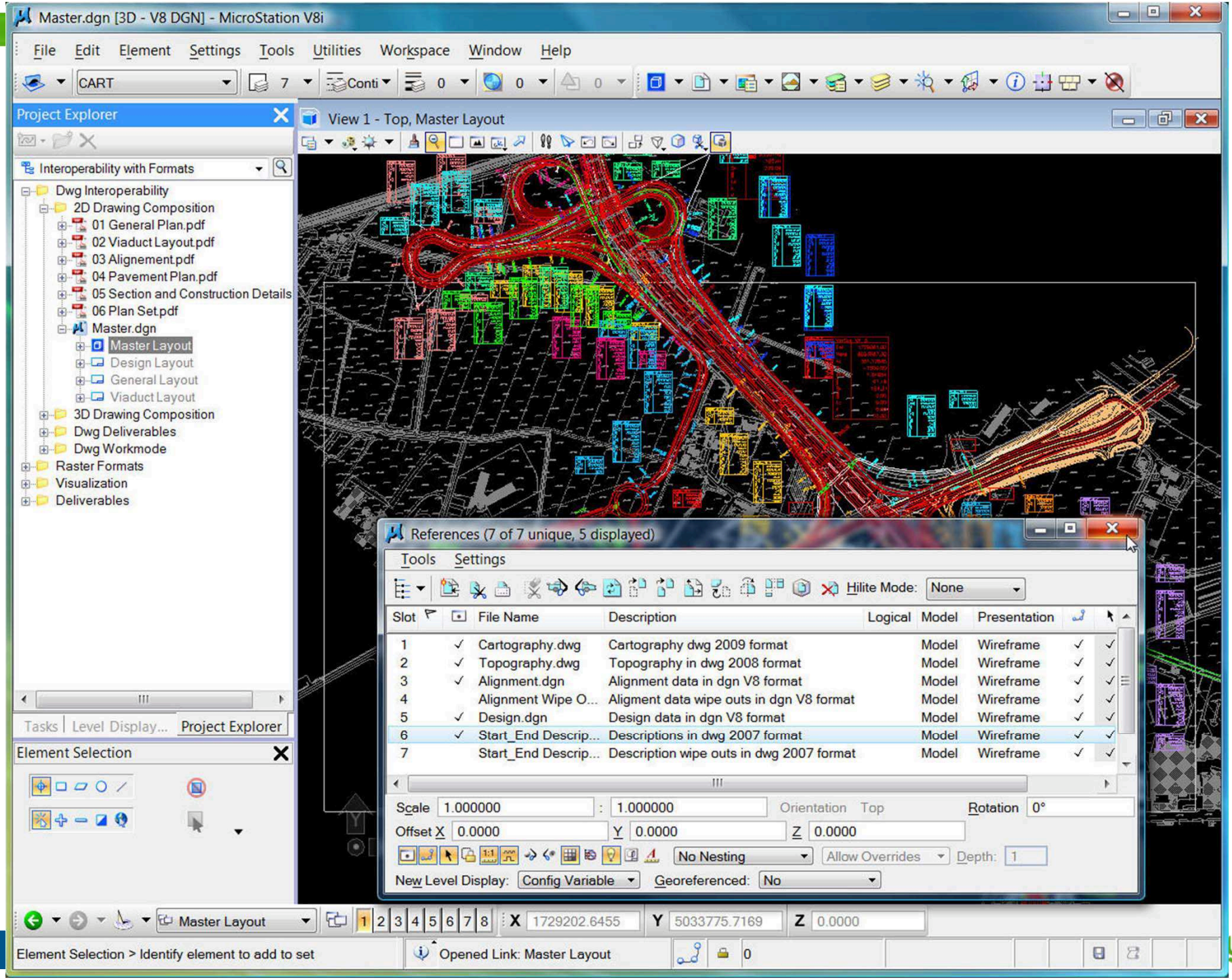

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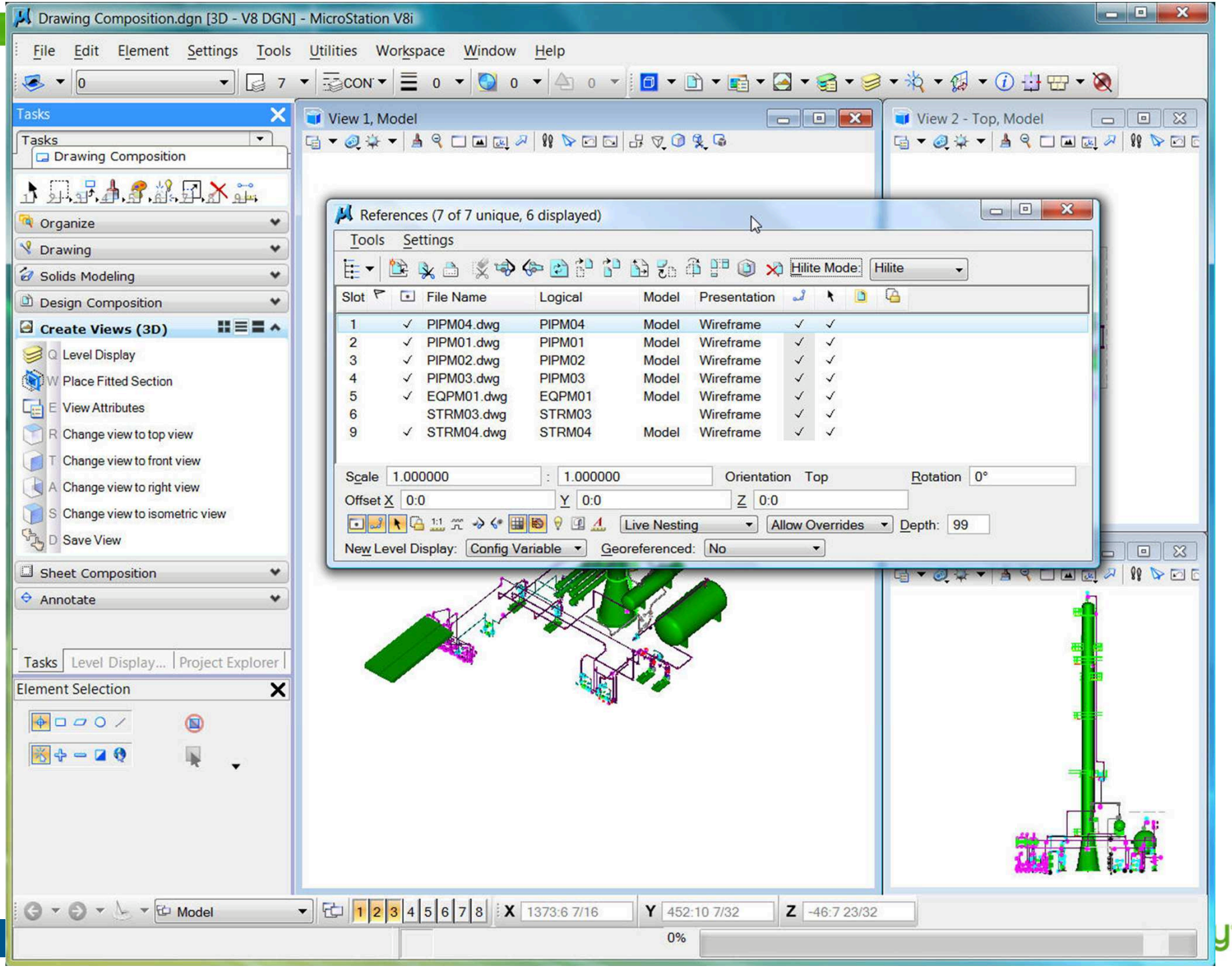

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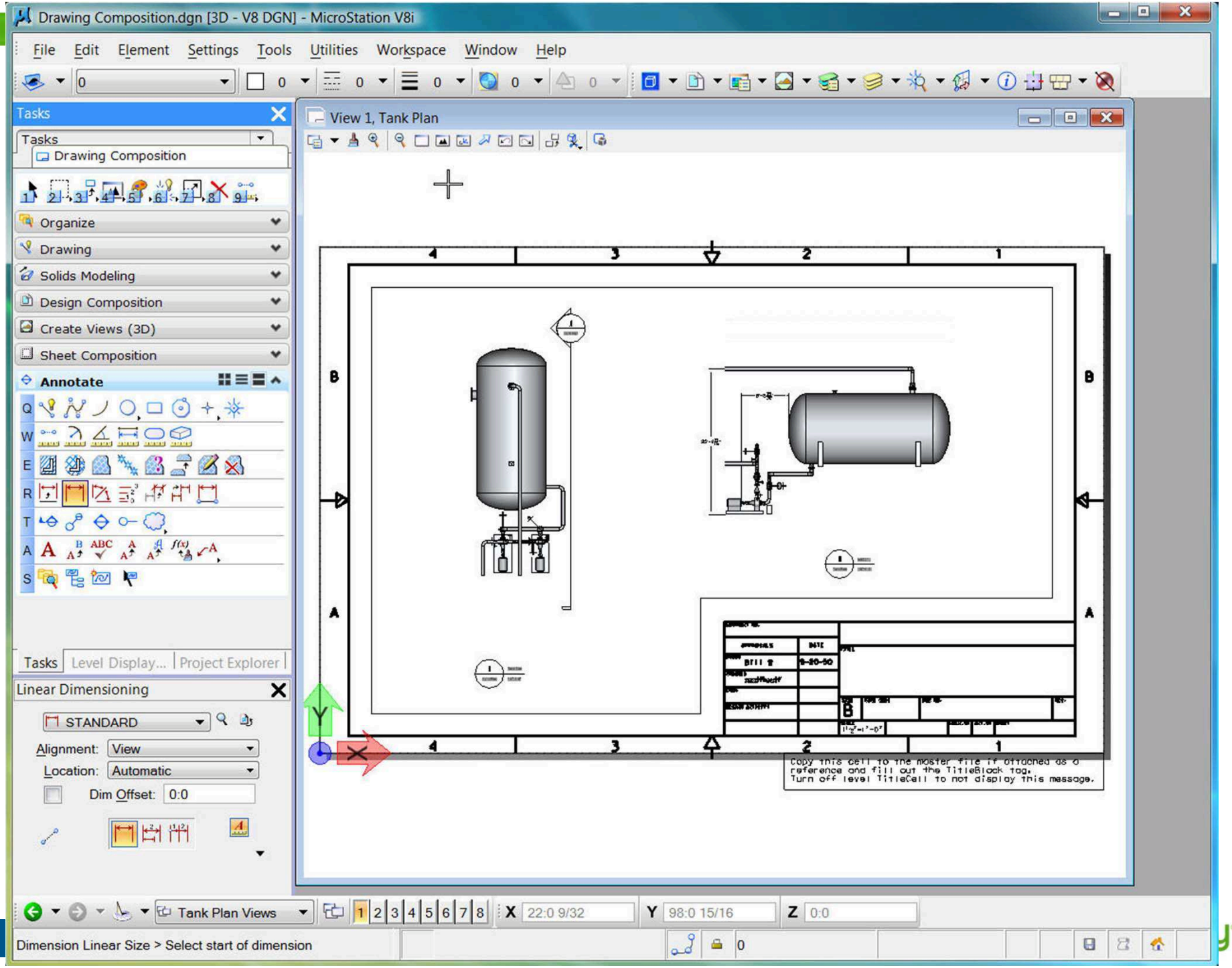

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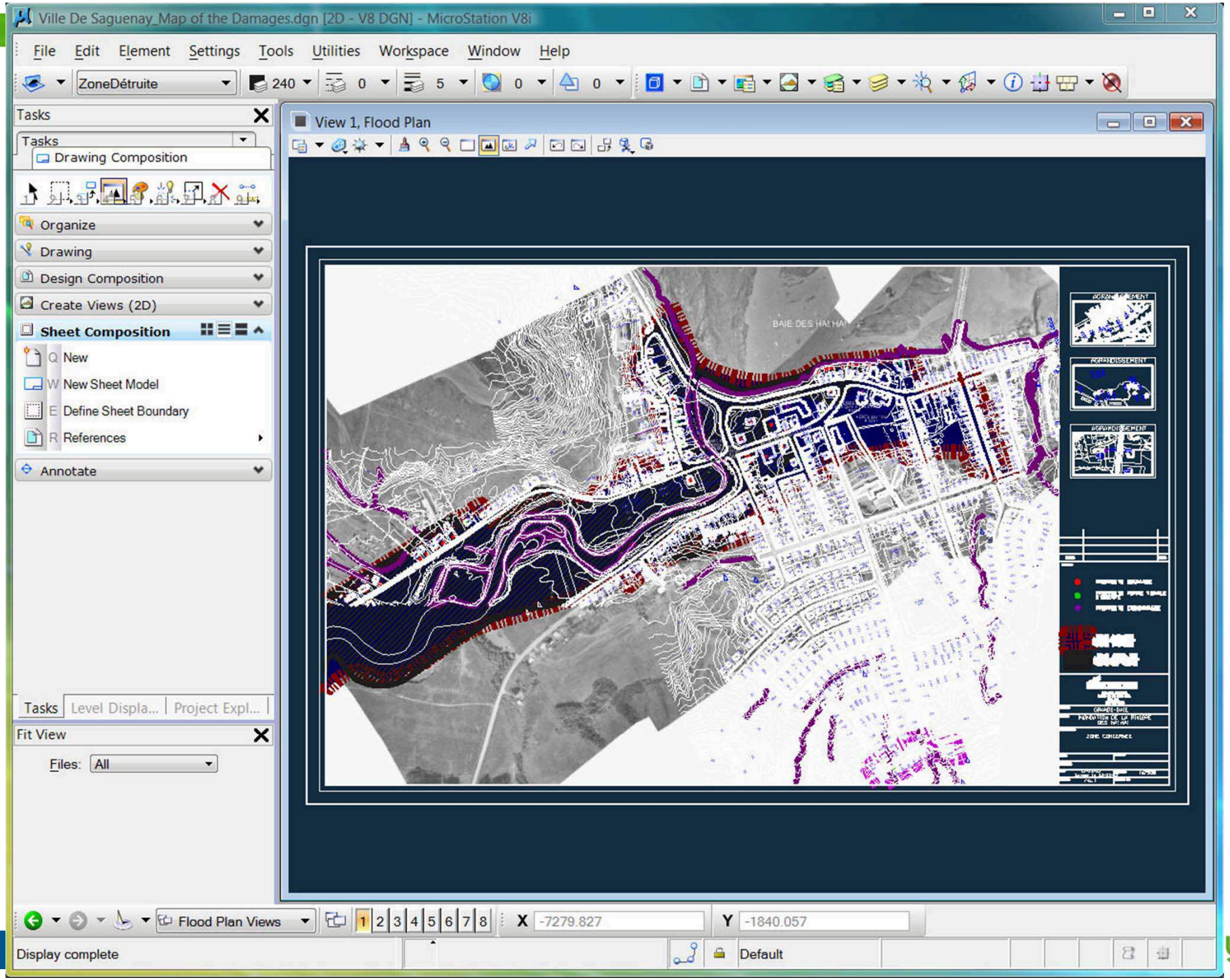

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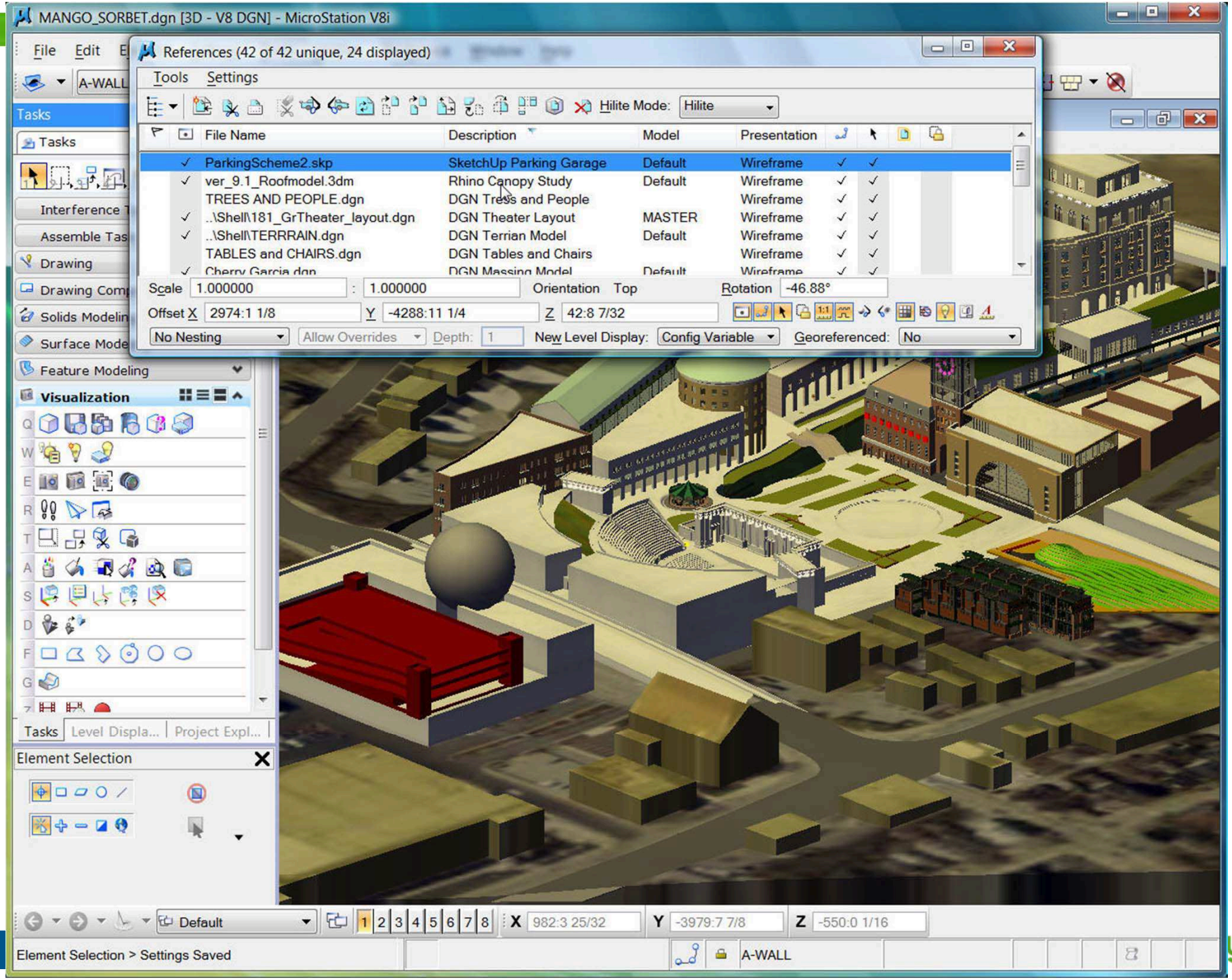

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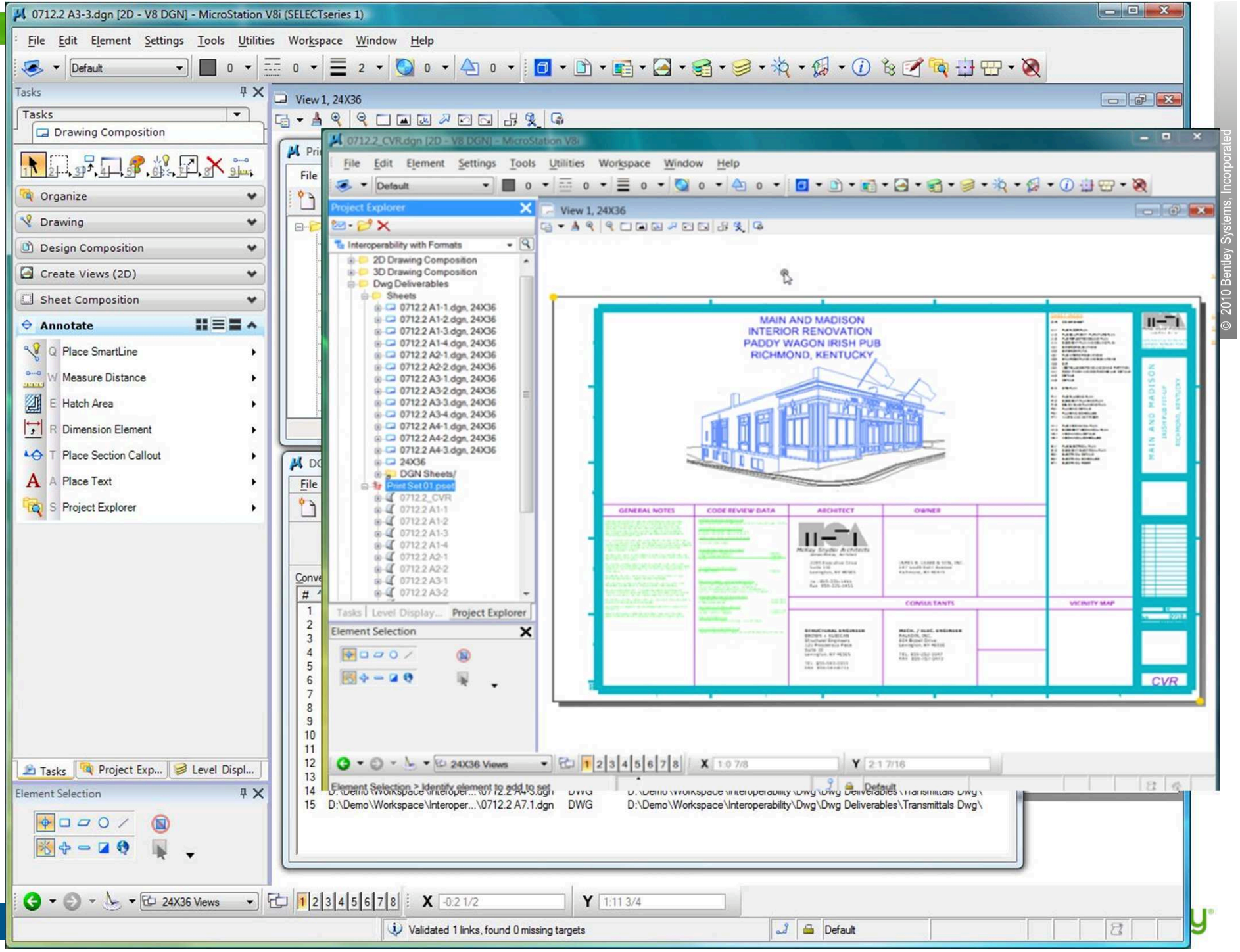

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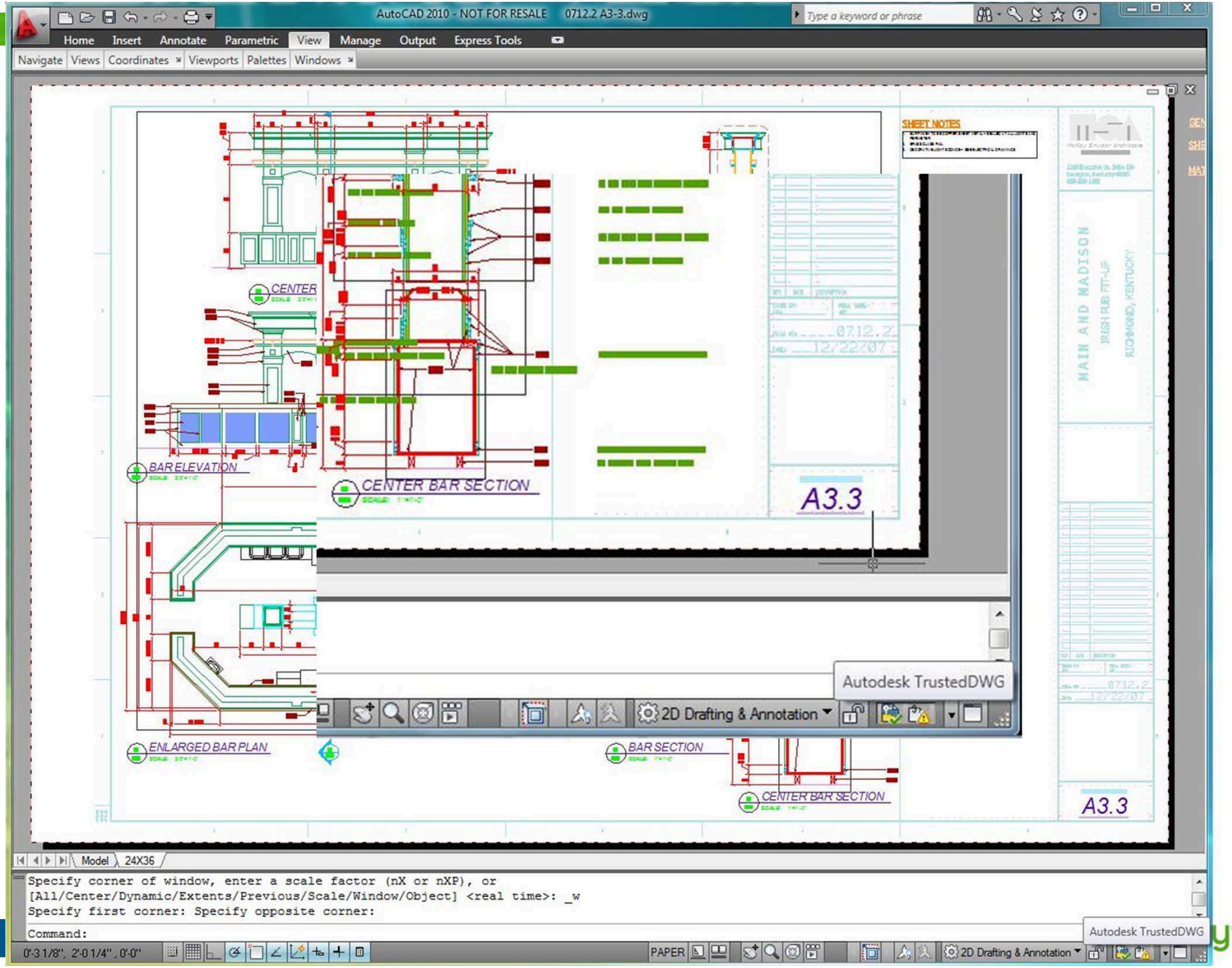

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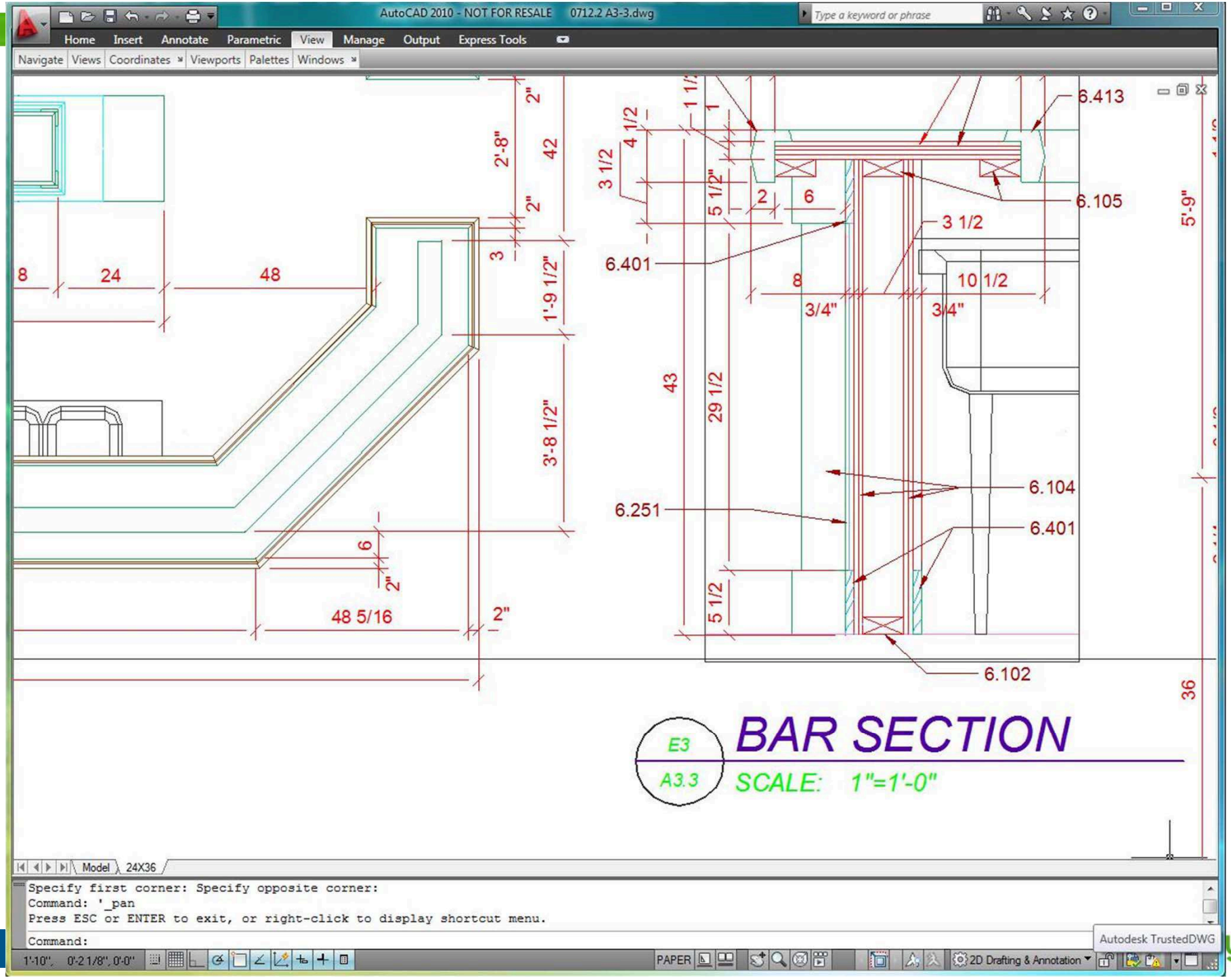

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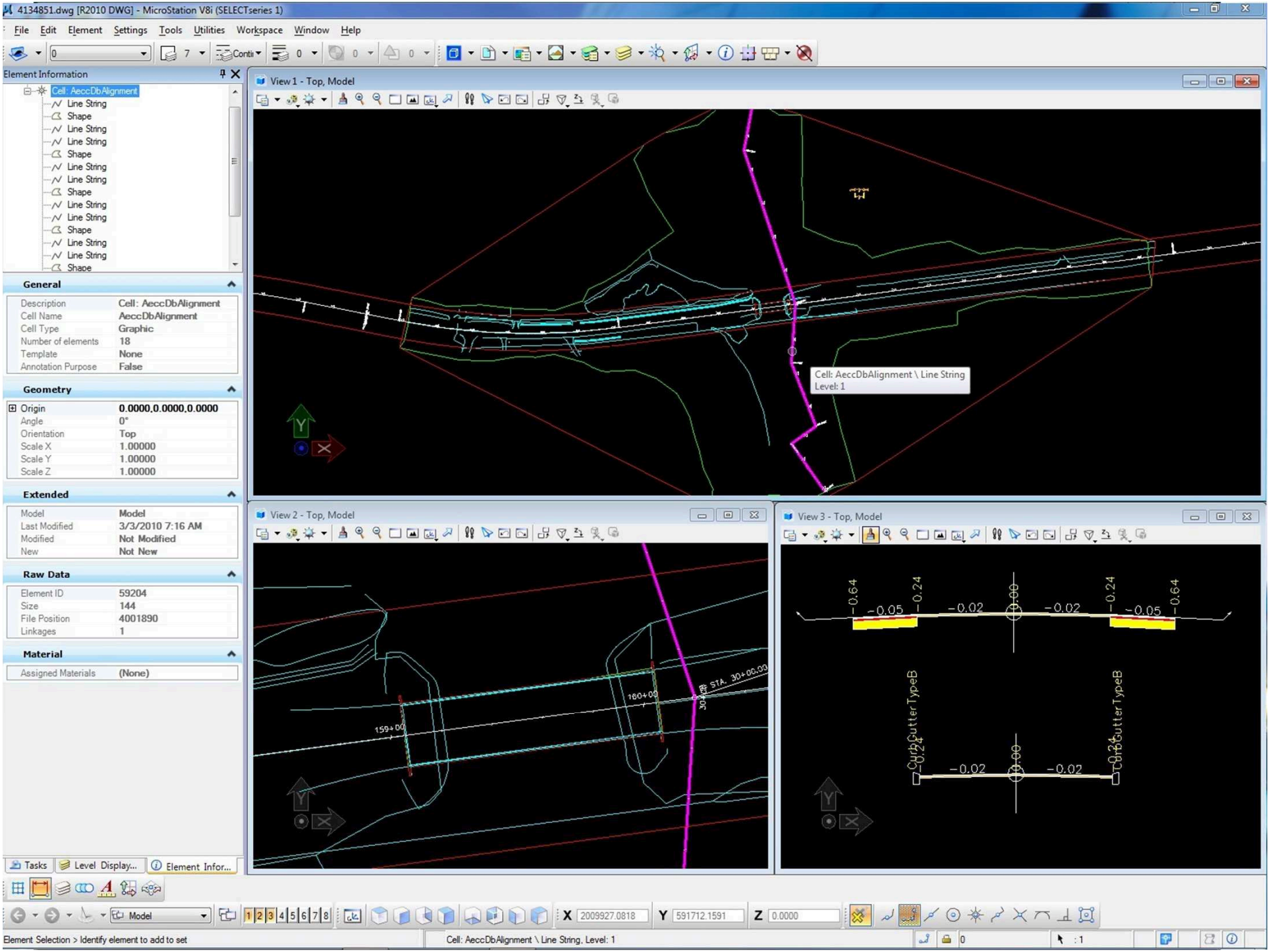
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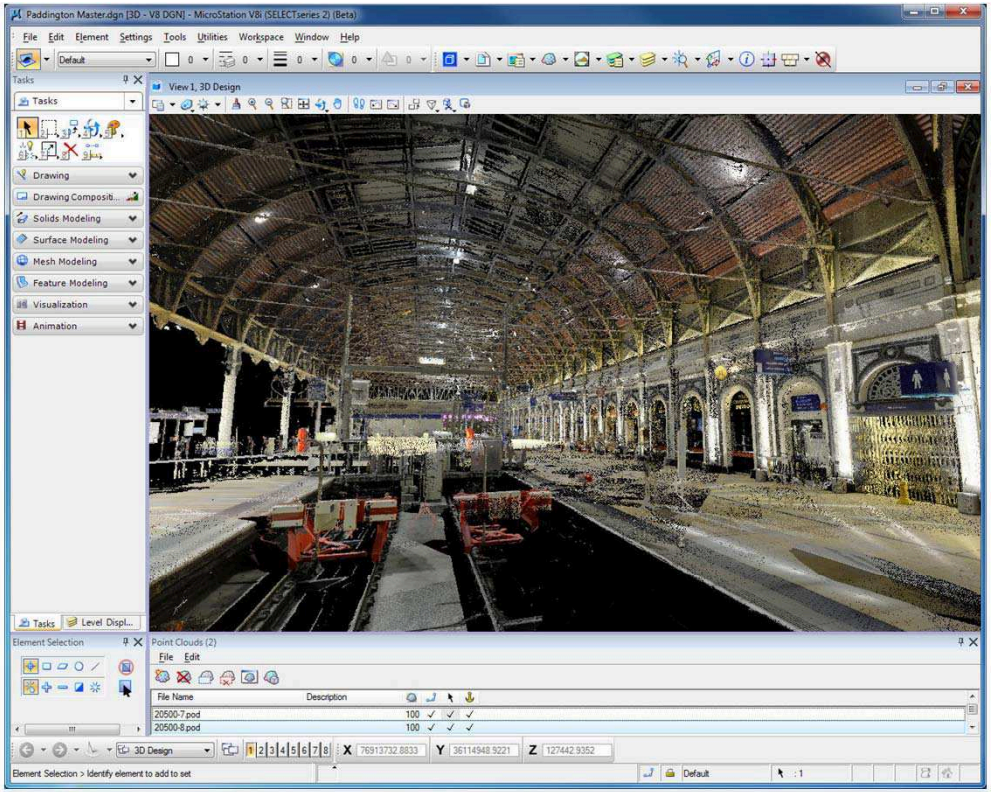
Line String
Shape
General
Description Cell: AeccDbAlignment
Cell Name AeccDbAlignment
Cell Type Graphic
Number of elements 18
Template None
Annotation Purpose False
Geometry
Origin 0.0000,0.0000,0.0000
Angle 0°
Orientation Top
Scale X 1.00000
Scale Y 1.00000
Scale Z 1.00000
Extended
Model Model
Last Modified 3/3/2010 7:16 AM
Modified Not Modified
New Not New
Raw Data
Element ID 59204
Size 144
File Position 4001890
Linkages 1
Material
Assigned Materials (None)
View 1 - Top, Model
Cell: AeccDbAlignment \ Line String
Level: 1
View 2 - Top, Model
159+00
160+00
STA. 30+00.00
View 3 - Top, Model
-0.64
-0.05
-0.24
-0.02
0.00
Curb&Gutter TypeB
Tasks
Level Display...
Element Infor...
Model
X 2009927.0818
Y 591712.1591
Z 0.0000
Element Selection > Identify element to add to set
Cell: AeccDbAlignment \ Line String, Level: 1

MicroStation V8*i* (SELECTseries 2)

- Point Clouds
  - Leverage LIDAR data in MicroStation
  - Easy to use, high performance visualization
  - Provide access to all project team members



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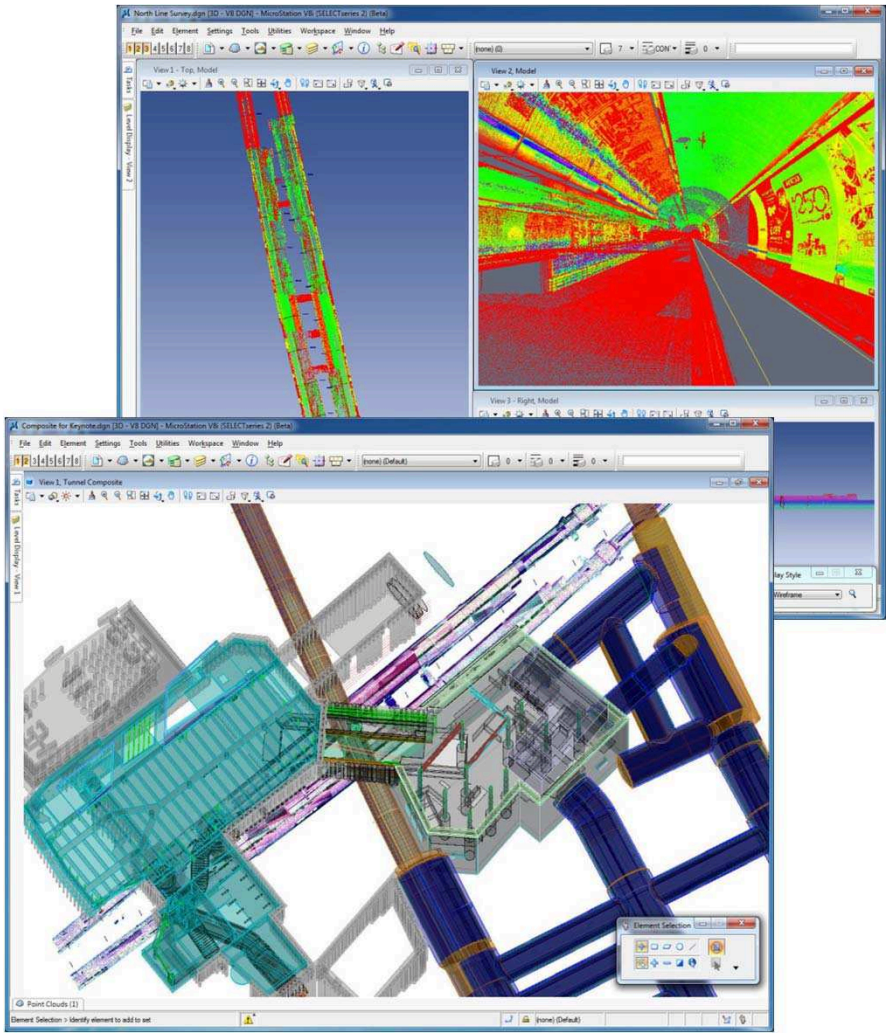
MicroStation V8*i* (SELECTseries 2)

Point Cloud Tools

- Standard Viewing tools
- Similar to a reference file attachment
- Snap and Locate
- Measure, move, scale, etc.
- Level on/off

Point Cloud Presentation

- RGB
- Classification
- Elevation
- Intensity



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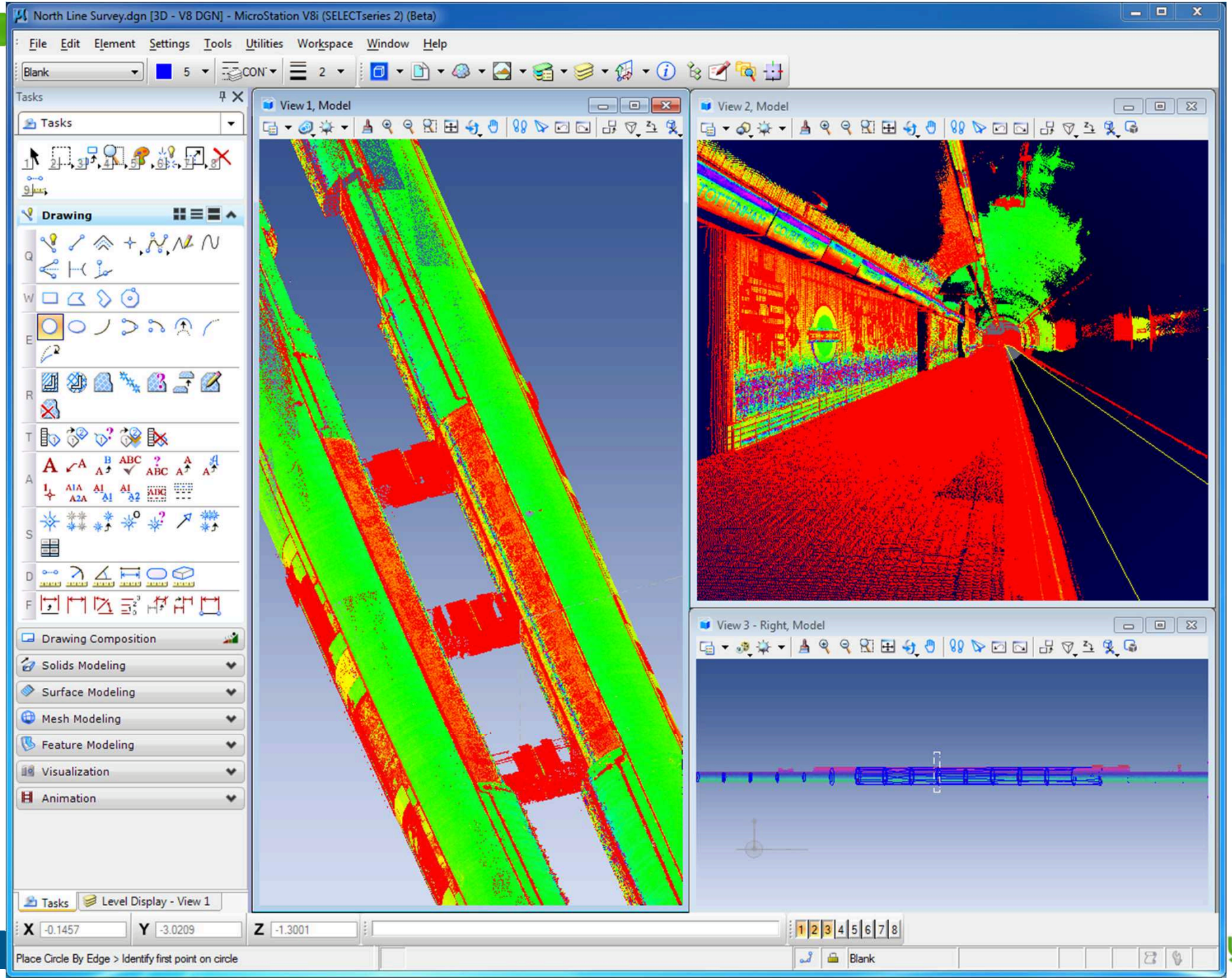

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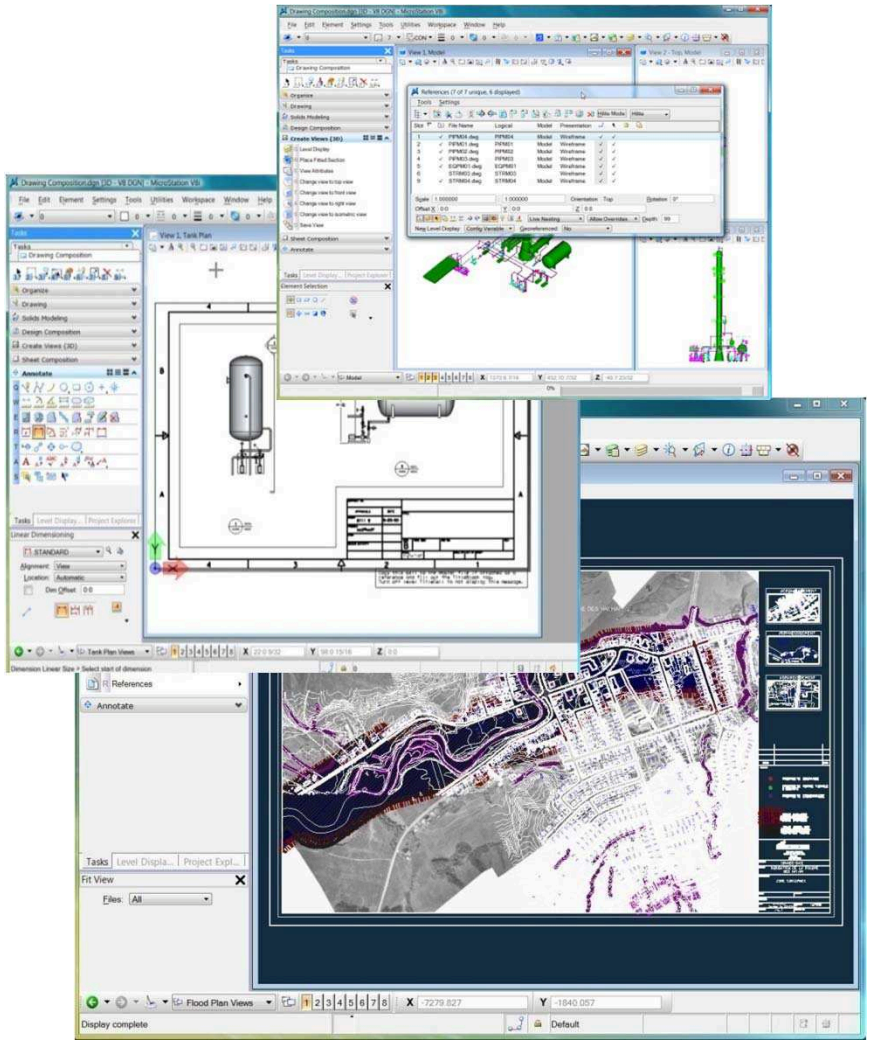
The Interoperability Advantage

- Improve Efficiency
  - Assemble information easily from multiple sources
  - Reuse assembled information
- Increase Quality
  - Read and write RealDWG files
  - Create better performing assets
- Save Money
  - Consolidate software
  - Reduce data translation cost
  - Eliminate need for re-work



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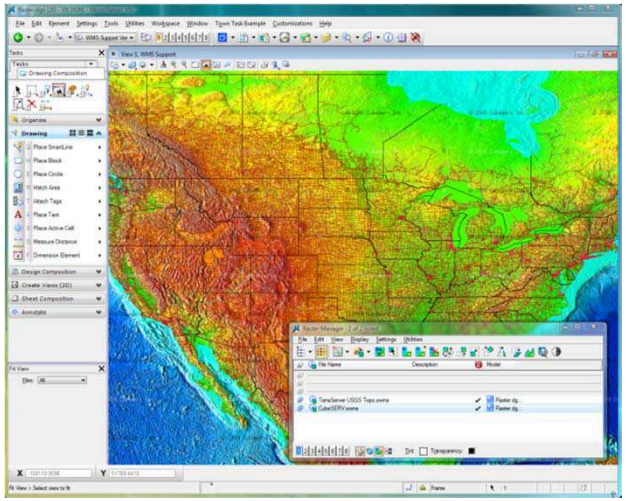
MicroStation V8*i* (SELECTseries 2)

Intrinsic GeoCoordination

MicroStation V8*i* (SELECTseries 2)

- Intrinsic GeoCoordination
  - Geospatial Referencing
  - Web Map Server Support
  - GPS Device Support
  - Geospatial PDF



- New in MicroStation V8*i* (SELECTseries 2)
  - Define Placemark Monuments
    - Longitude and Latitude
    - Cartesian Coordinates
    - Global Positioning System
    - Reference with Geographic Coordinate System

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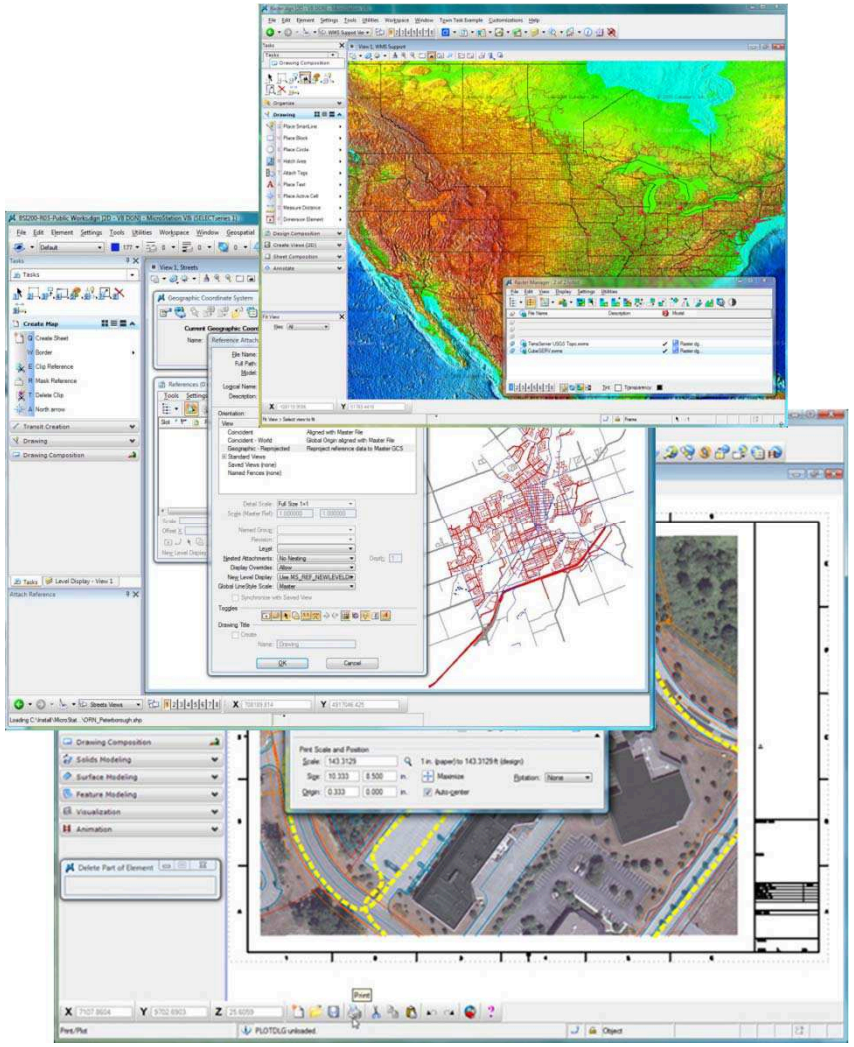
Why Geo-Coordinate Anything?

- Assemble information with multiple coordinate systems from multiple sources
- Align work accurately to create a reliable view of the design project in real-world context
- Avoid on-site coordination errors as project is constructed
- Create data-rich design and construction deliverables



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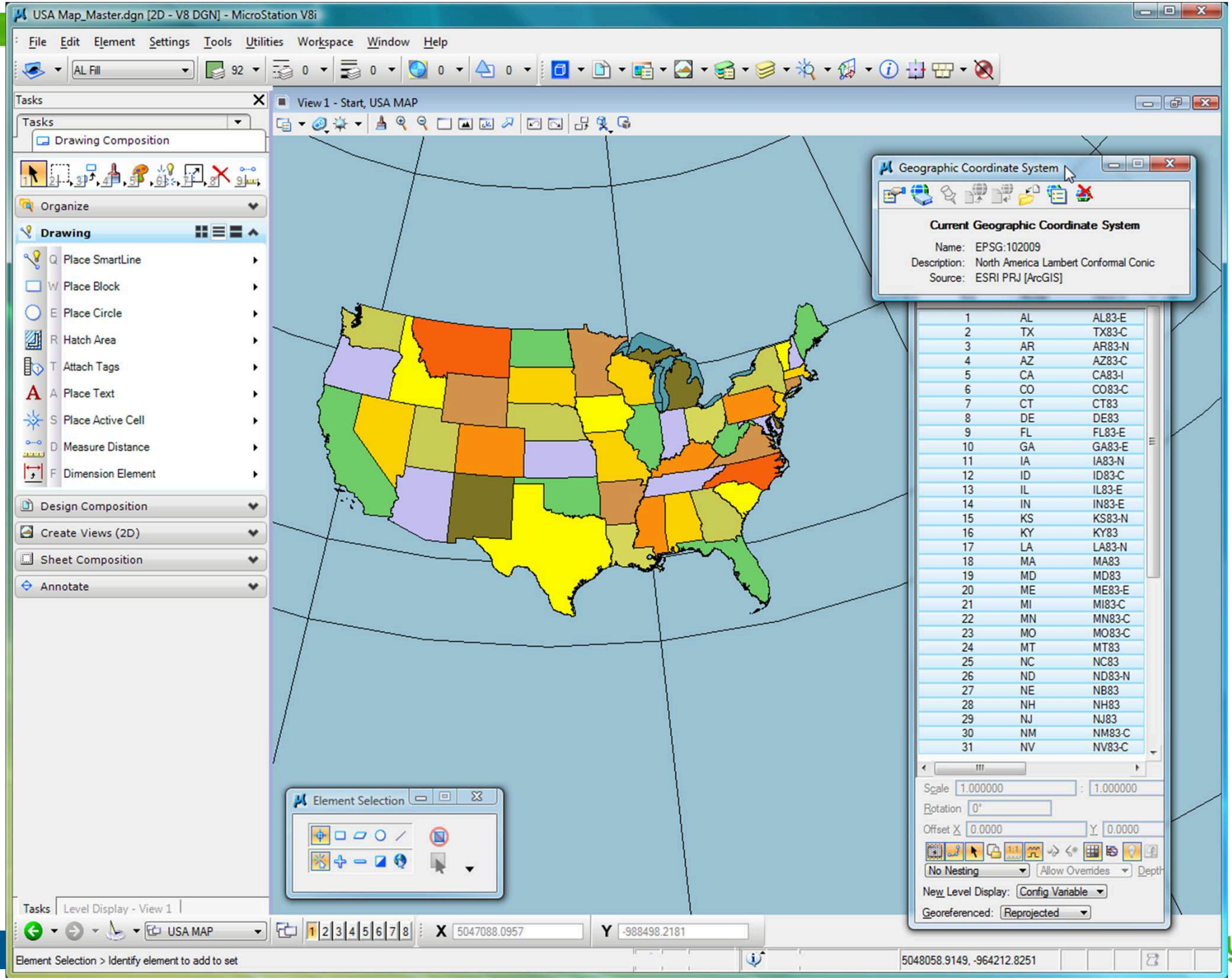

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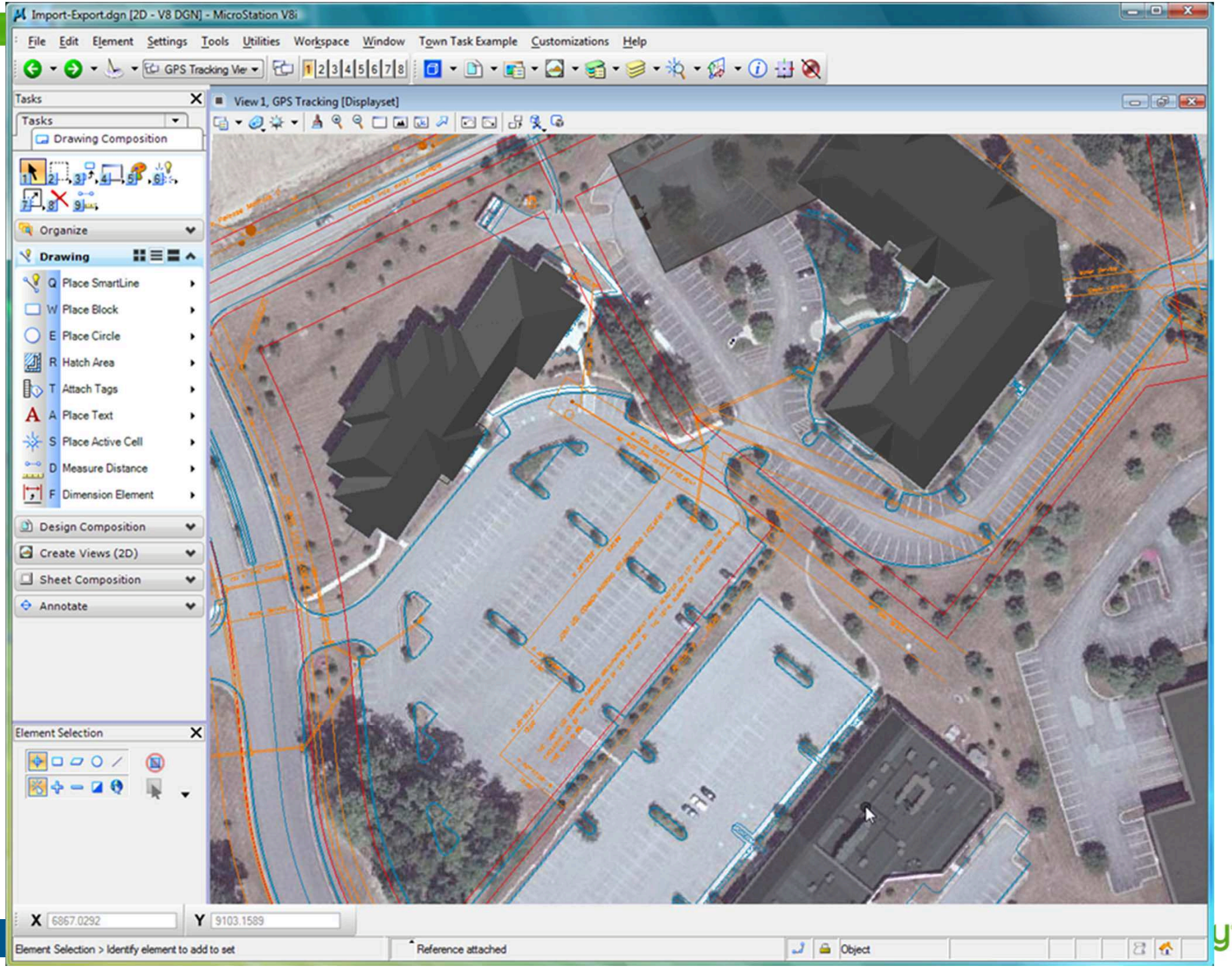

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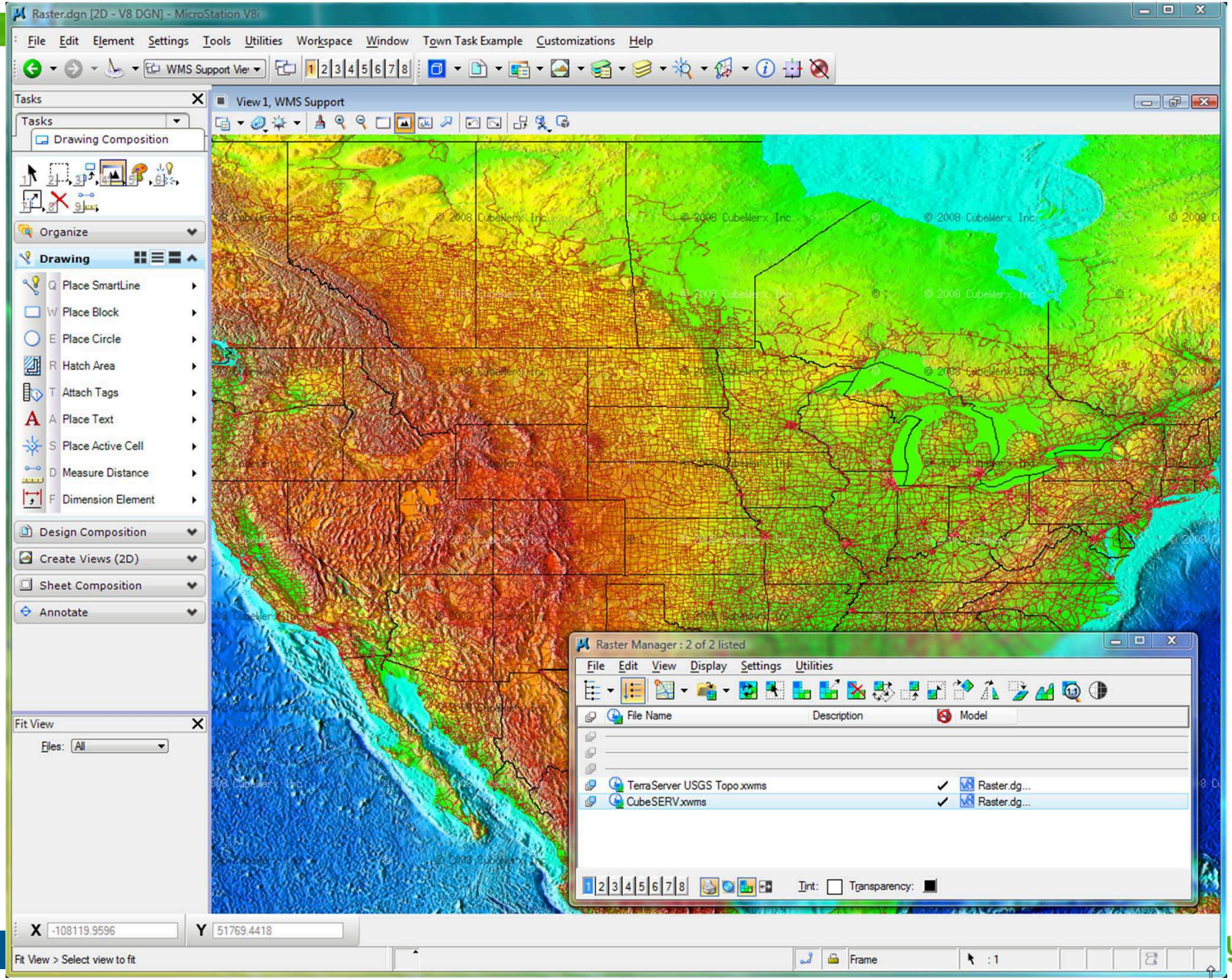

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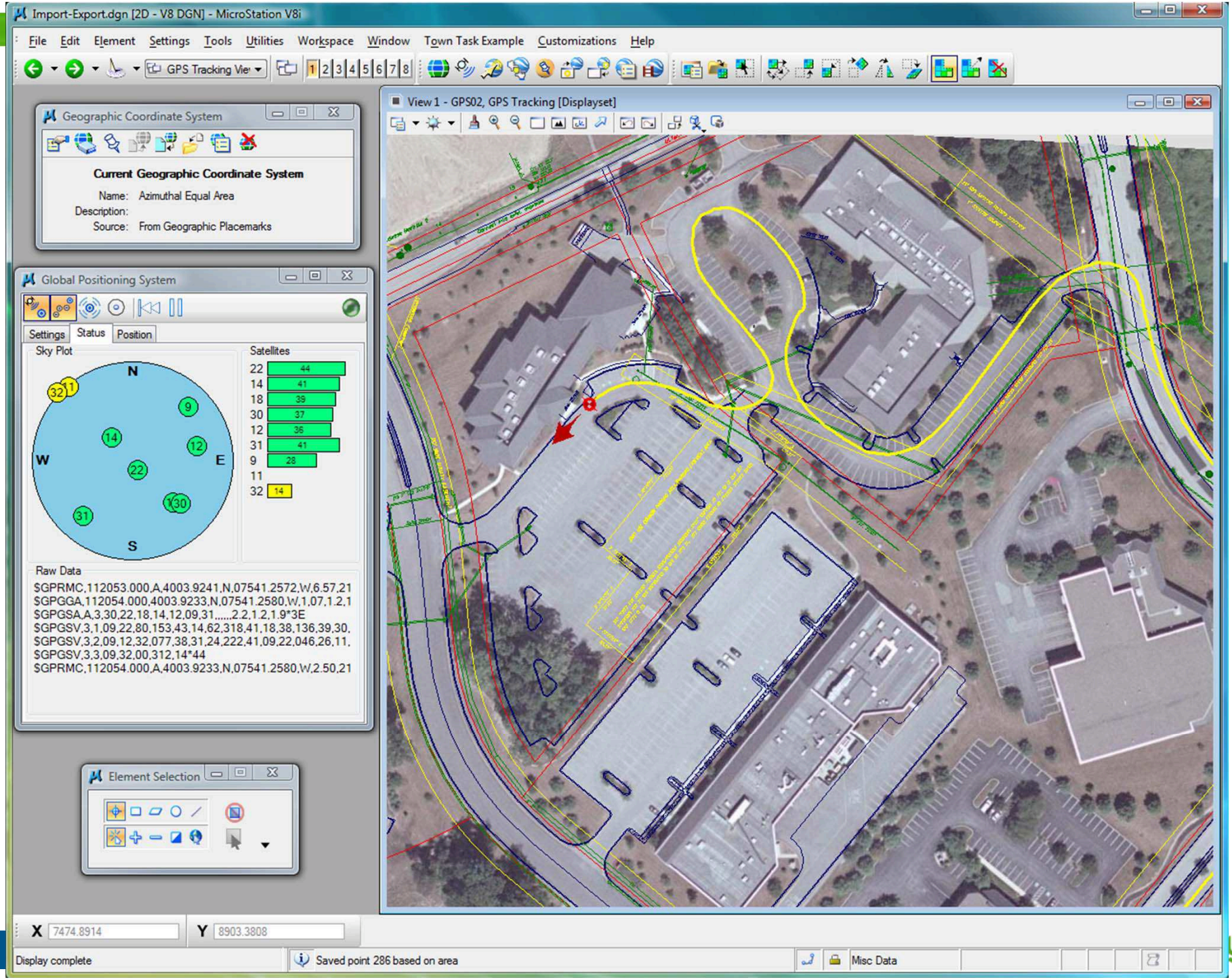

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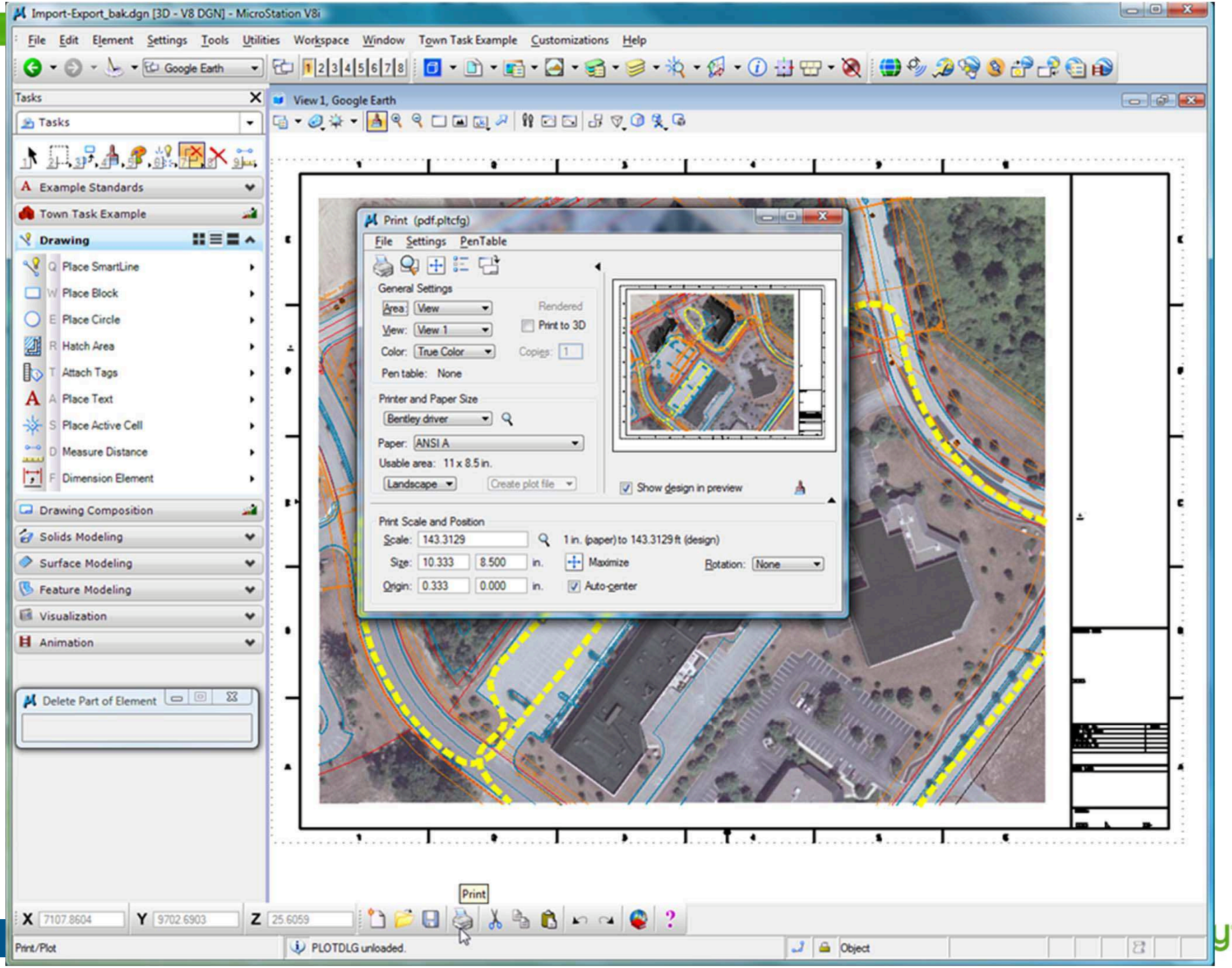

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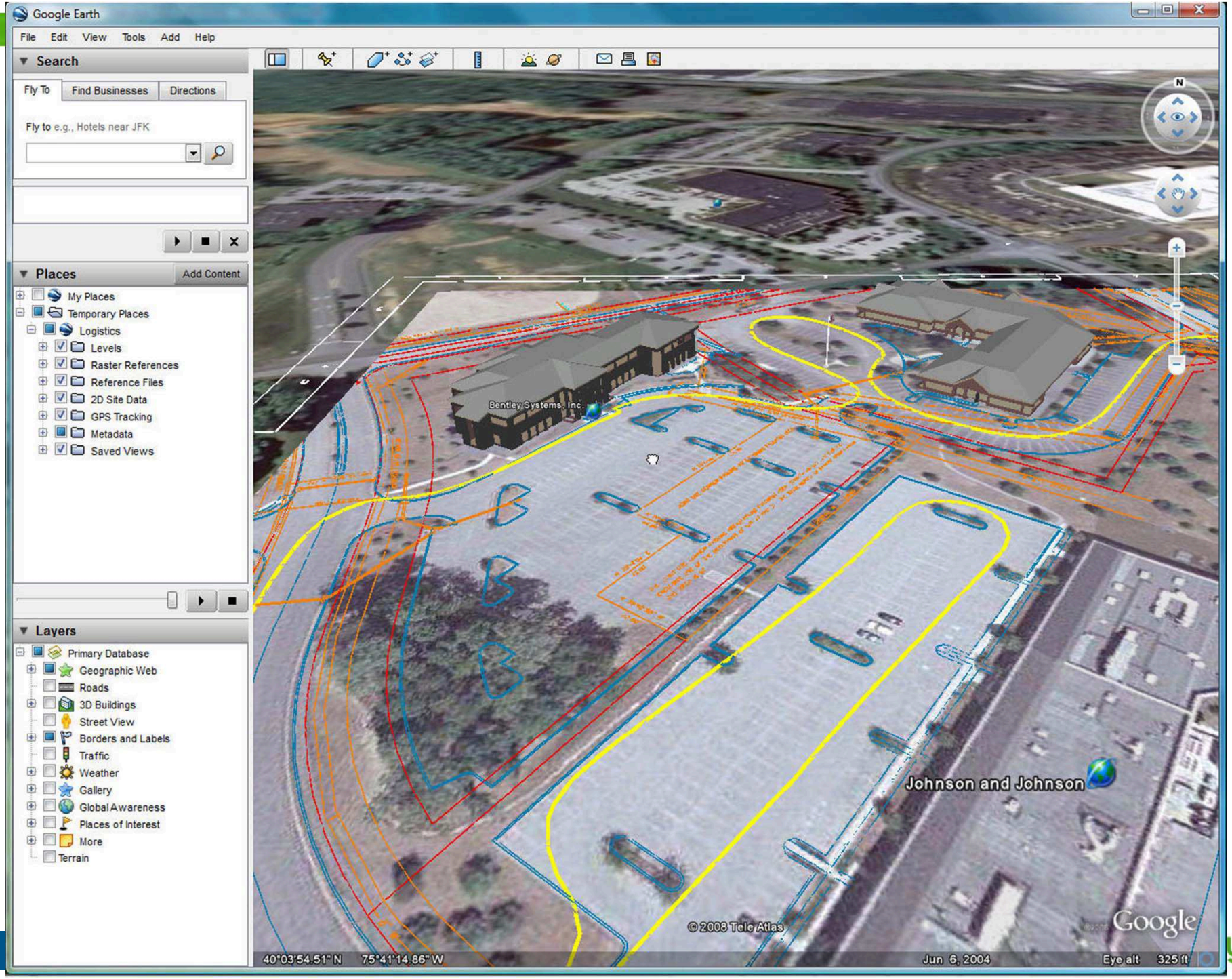

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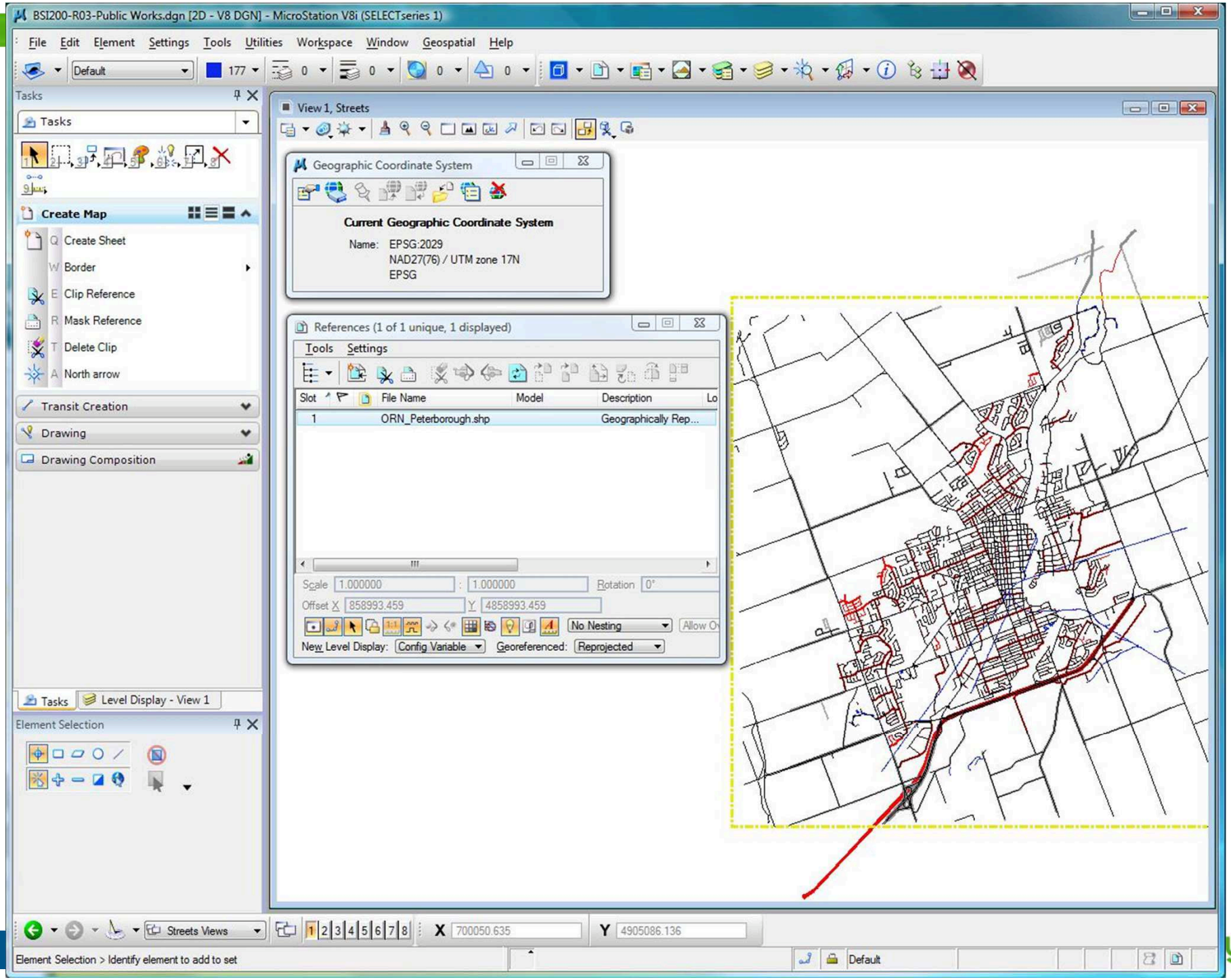

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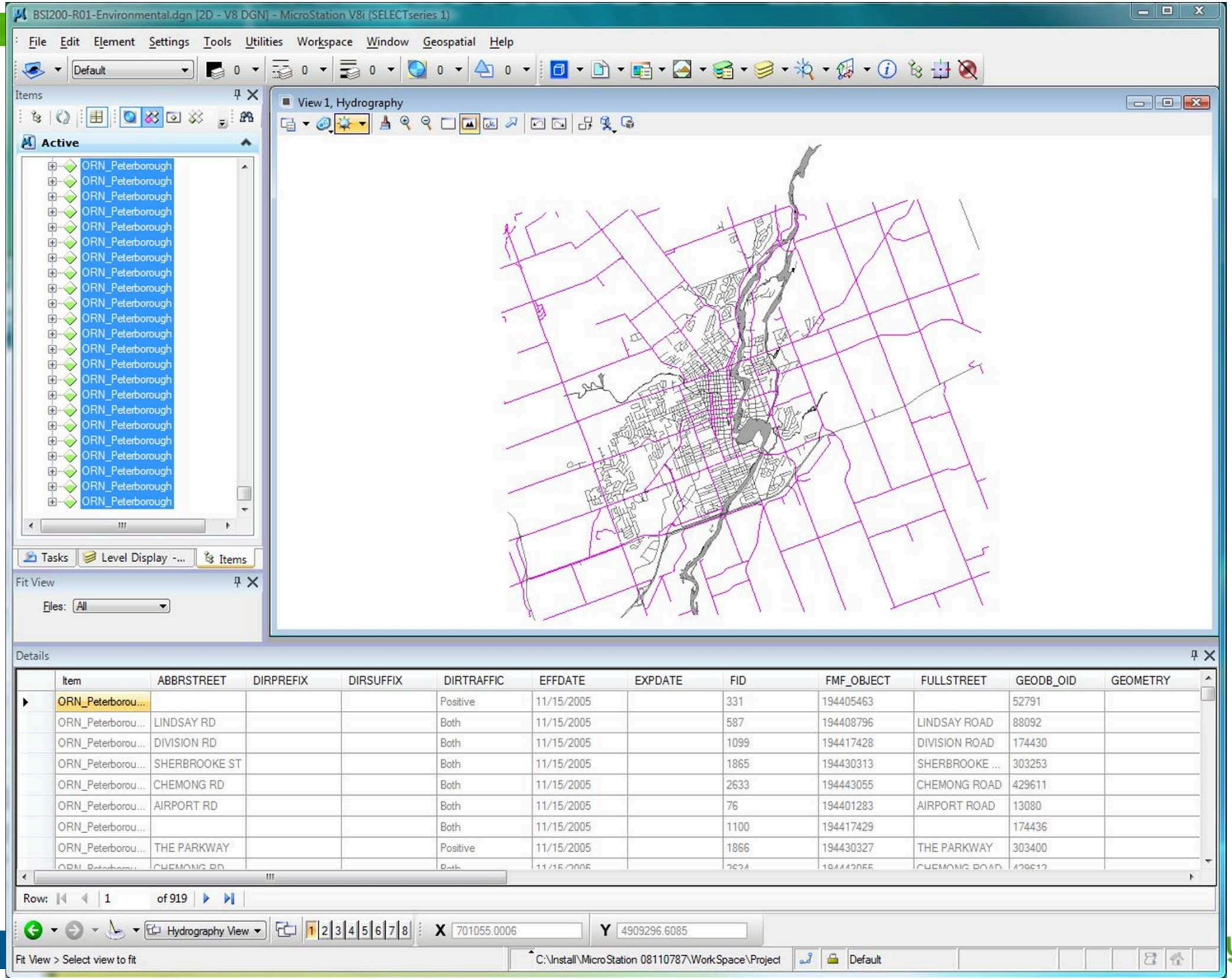

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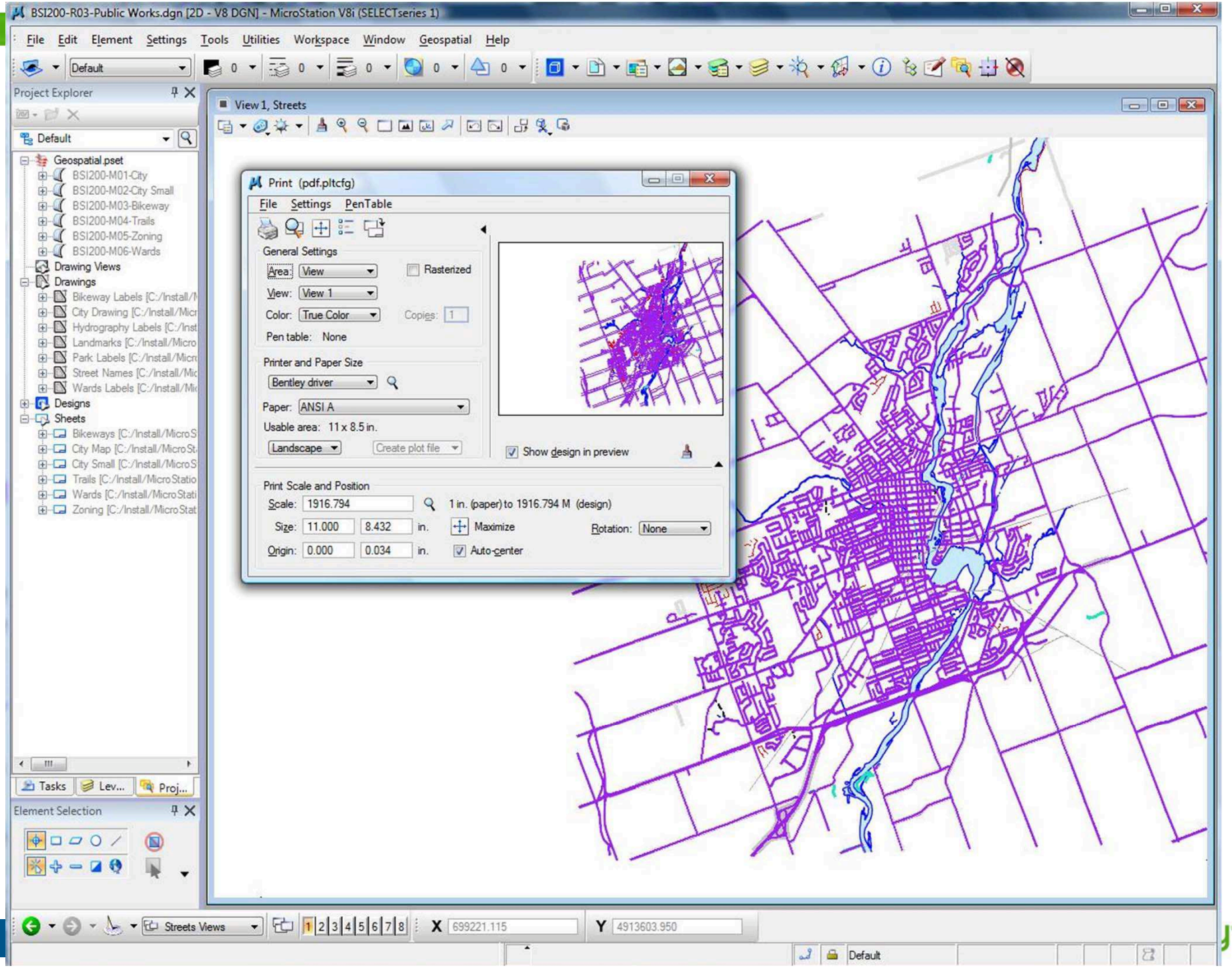

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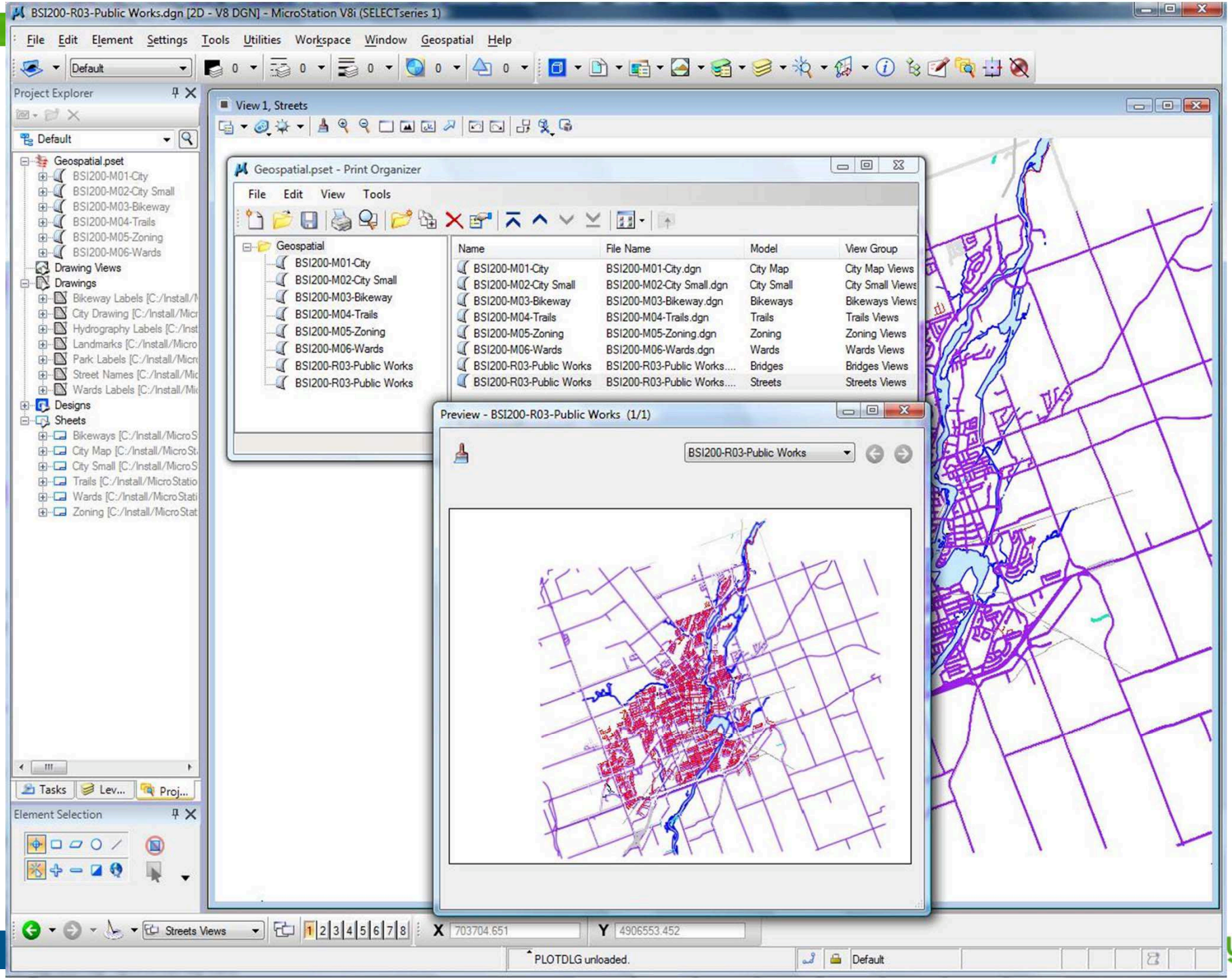

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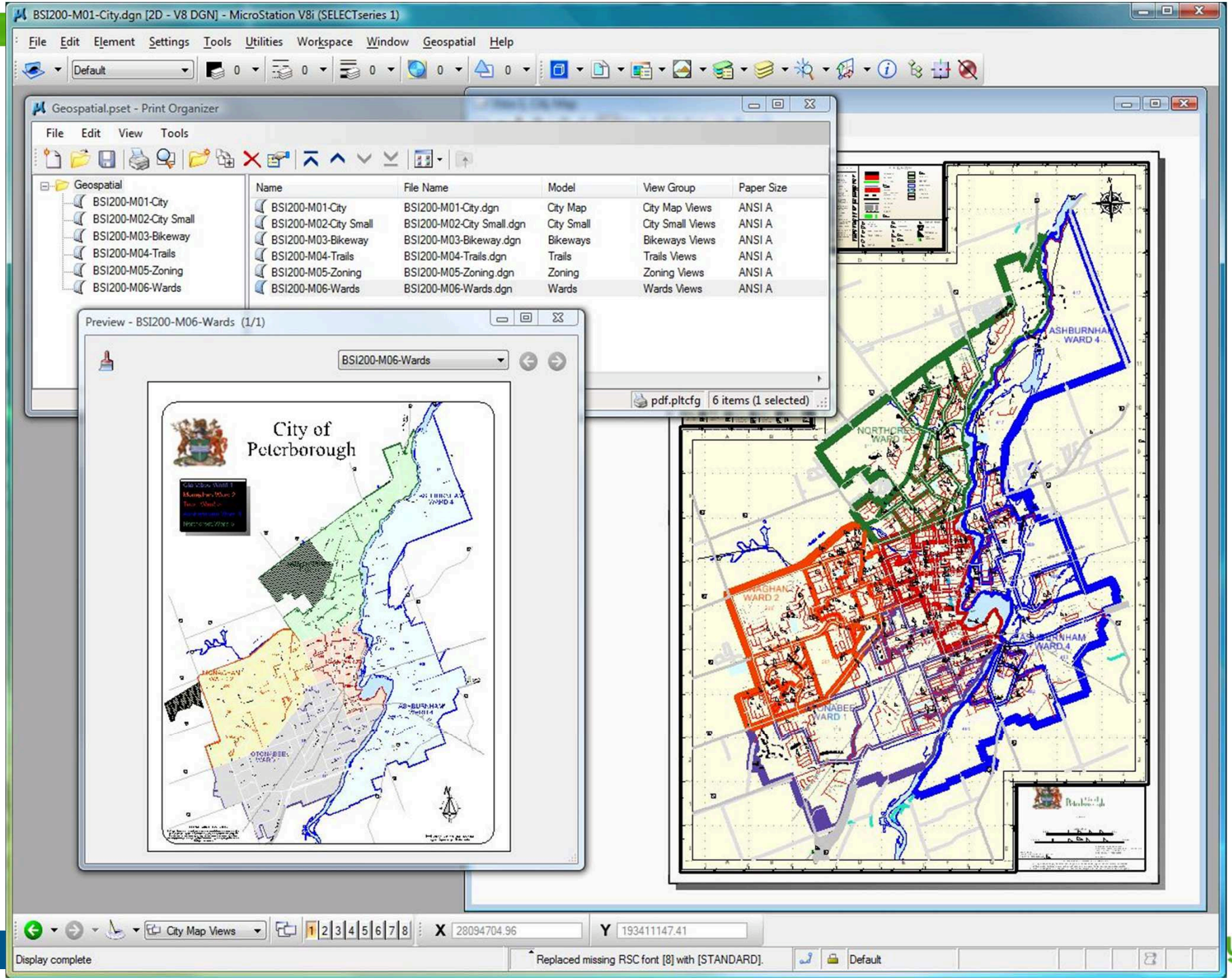

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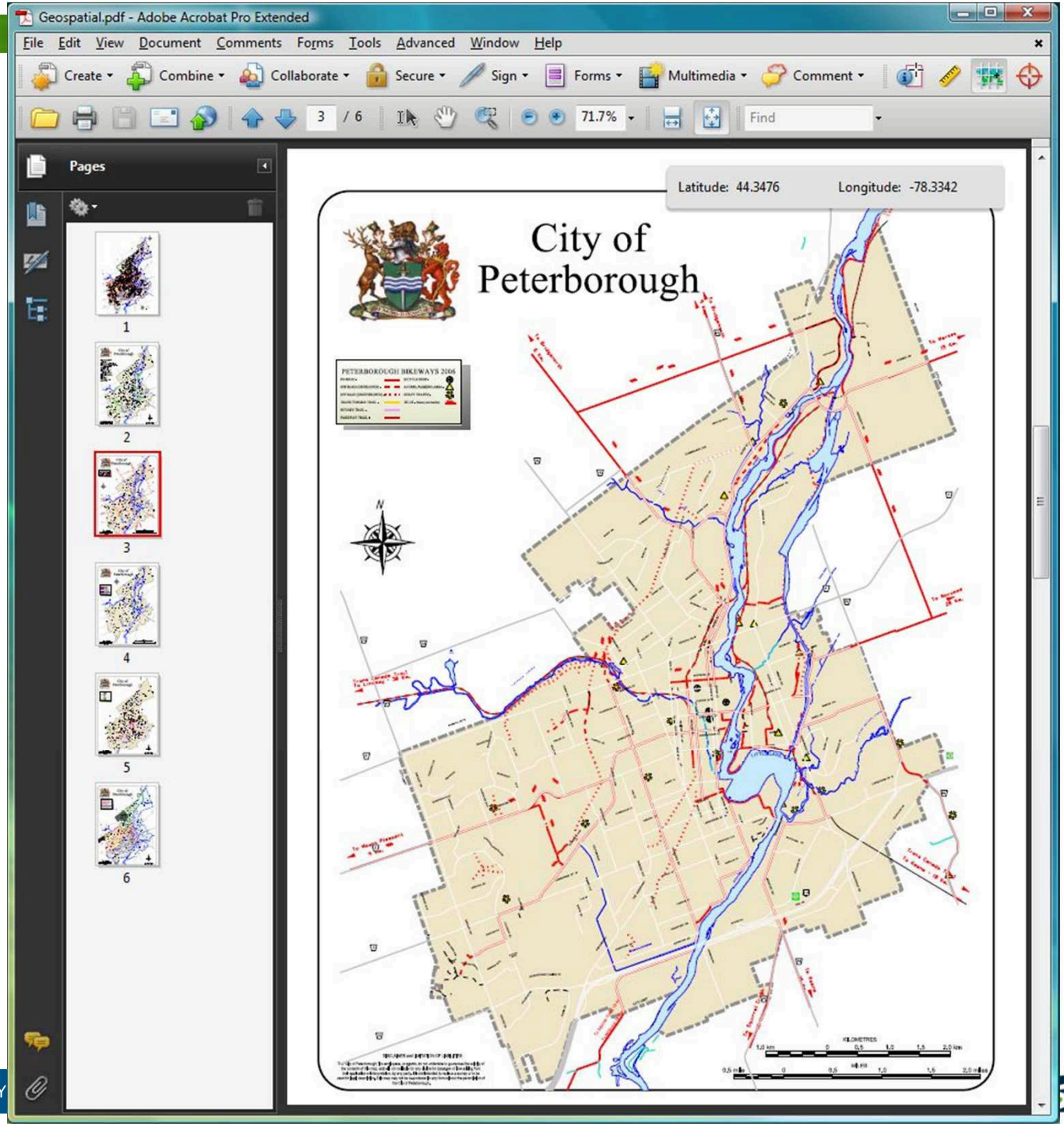

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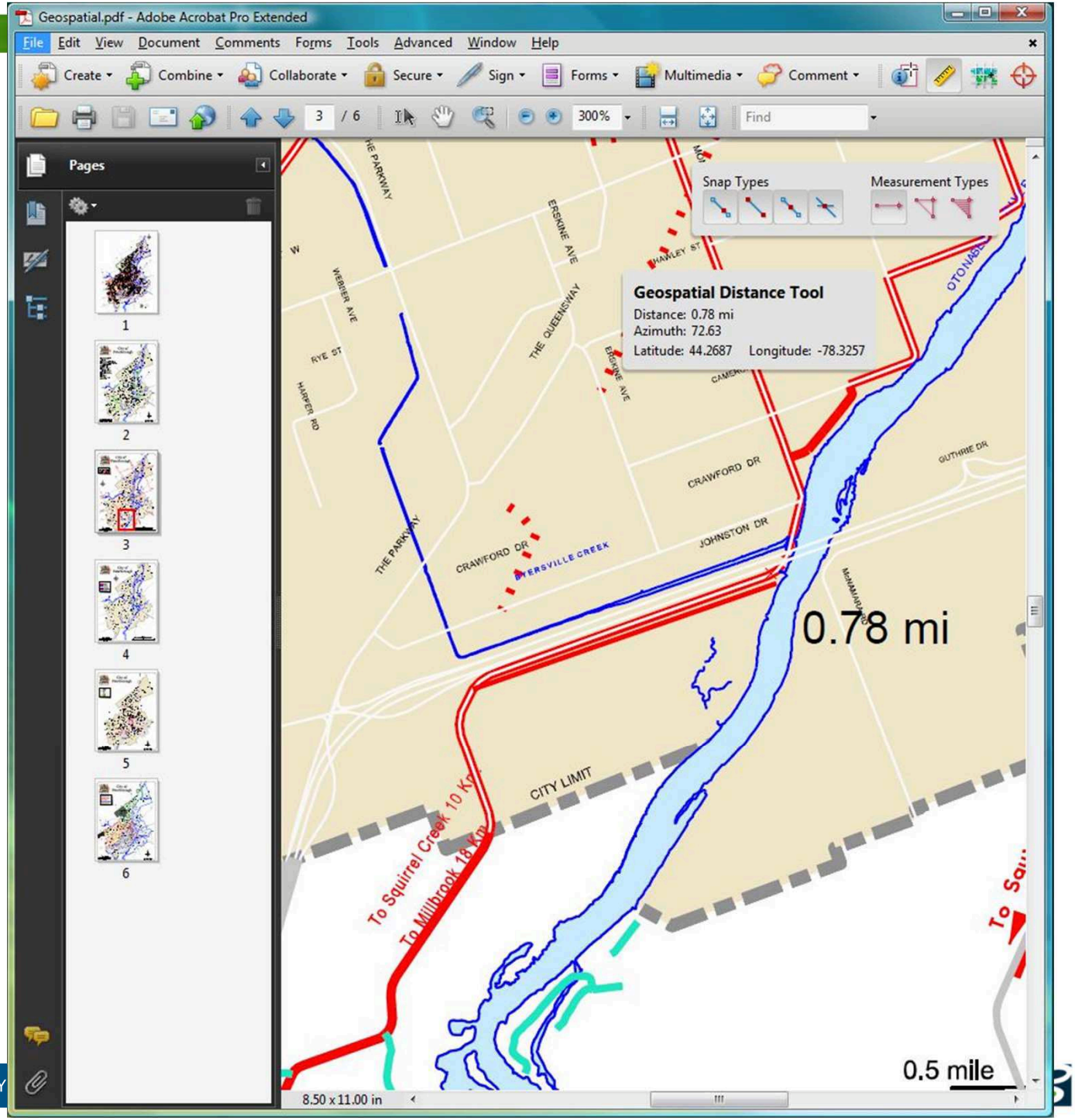

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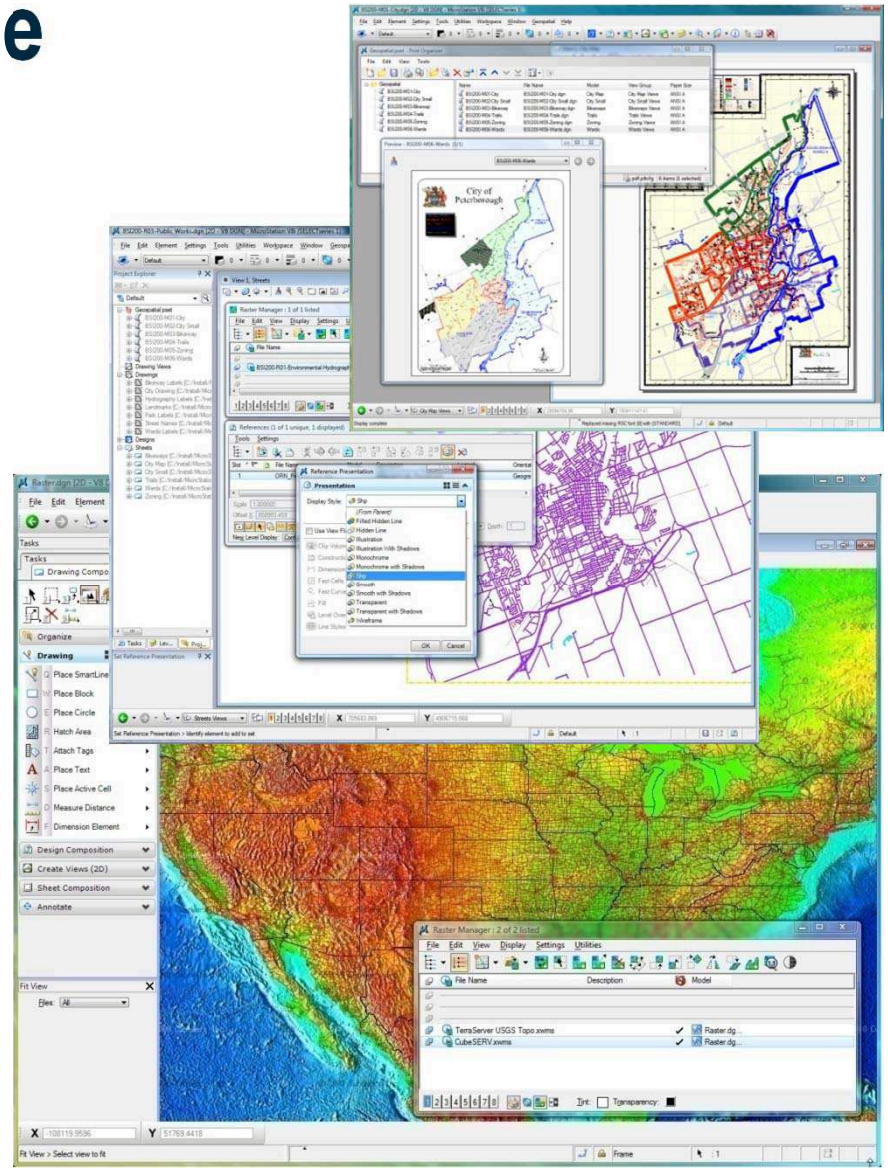
The Intrinsic Advantage

- Save Time
  - Streamline process
  - Reuse native data
  - Avoid doing things twice
- Improve Quality
  - Add Geo-Context to PDF's
  - Enhance data richness
- Reduce Risk
  - Eliminate mistakes on site



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MicroStation V8*i* (SELECTseries 2)

Interactive Dynamic Views

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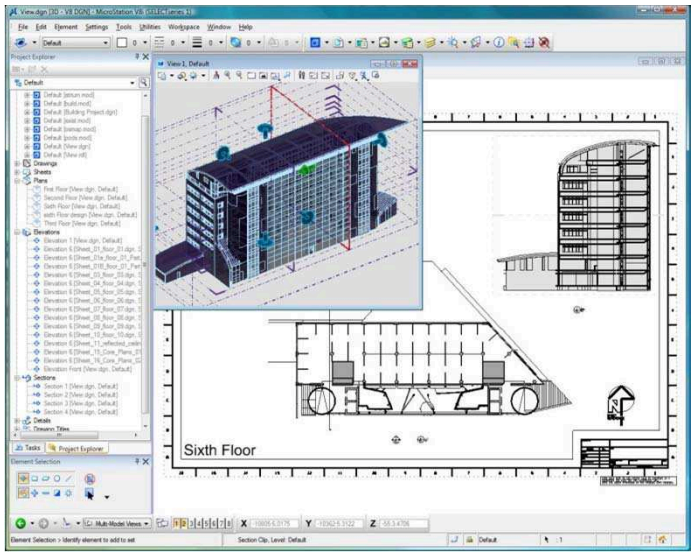
MicroStation V8*i* (SELECTseries 2)

- Interactive Dynamic Views
  - 3D Model Visualization
  - Drawing Automation
  - Linked Sections and Drawings
  - Annotation and Detailing
  - Drawing Model



- Major Innovations Coming In MicroStation V8*i* (SELECTseries 3)

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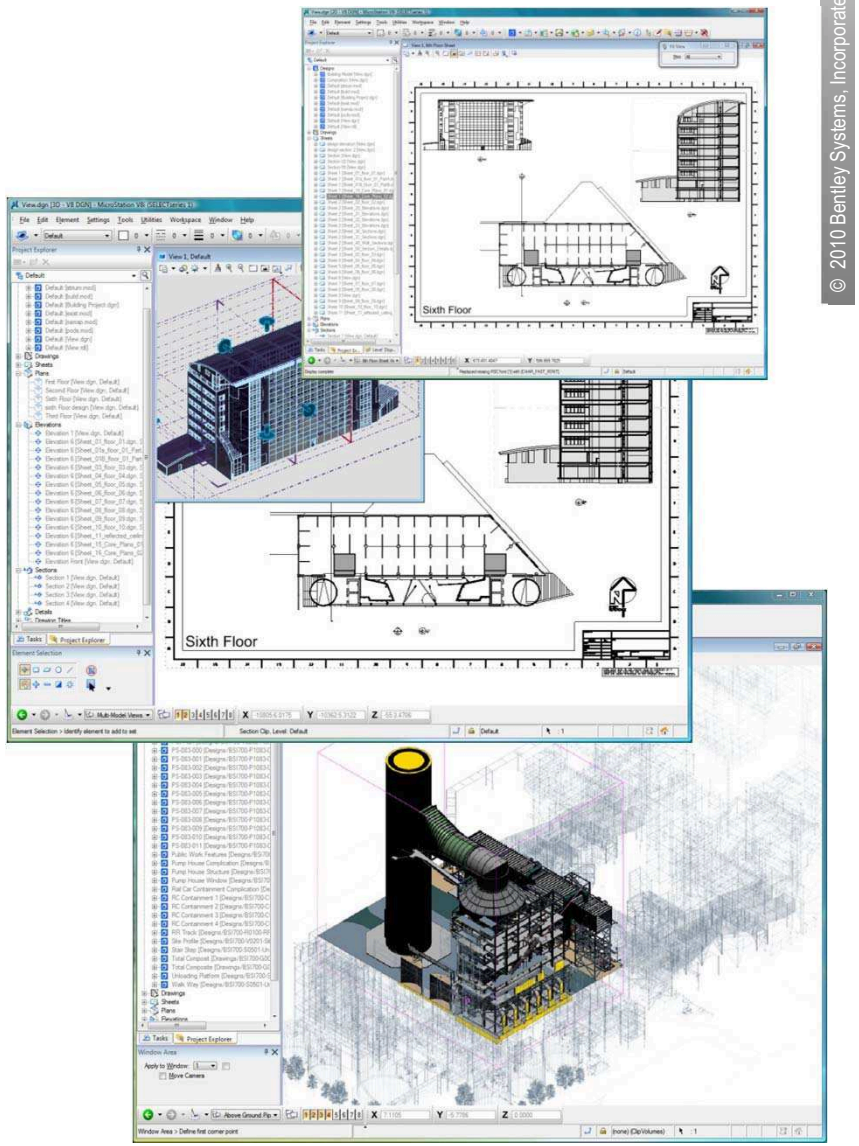
Why Use Dynamic Views?

- Synchronize models and drawings to coordinate deliverables
- Simplify and automate the drawing composition process
- Improve drawing package production efficiencies
- Make project information reliable across all design and drawing files
- Slice and filter 3D models to remove clutter and simplify view



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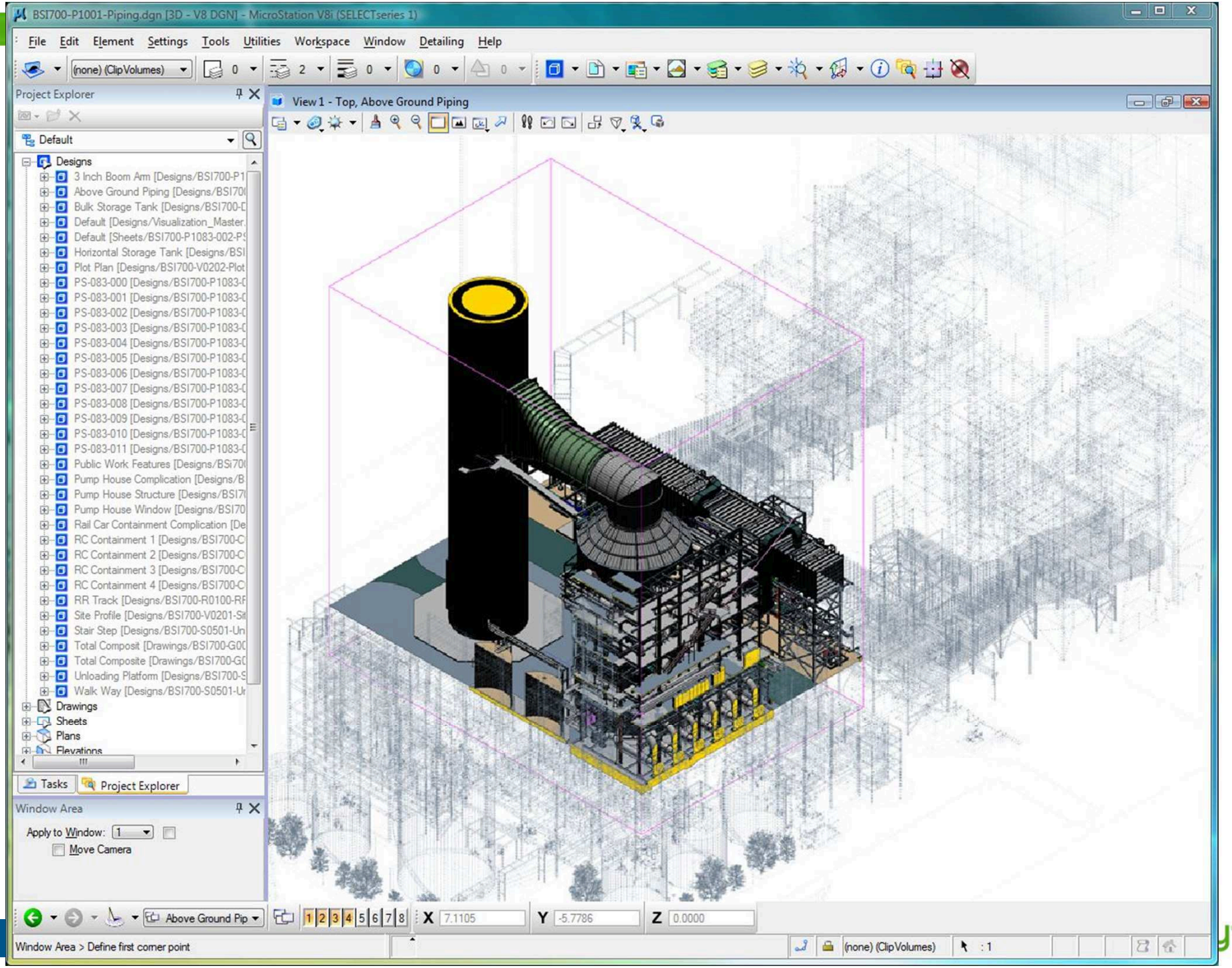

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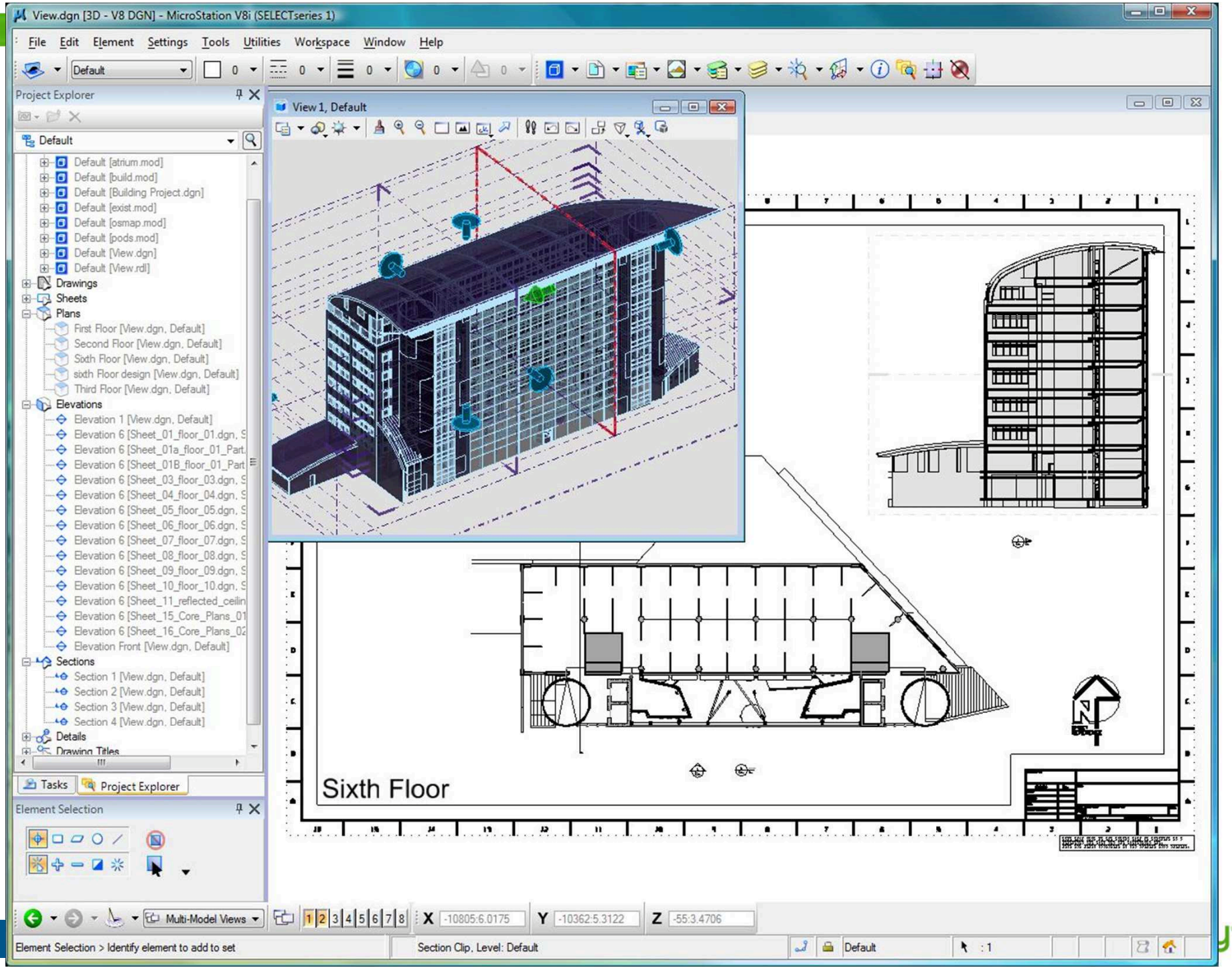

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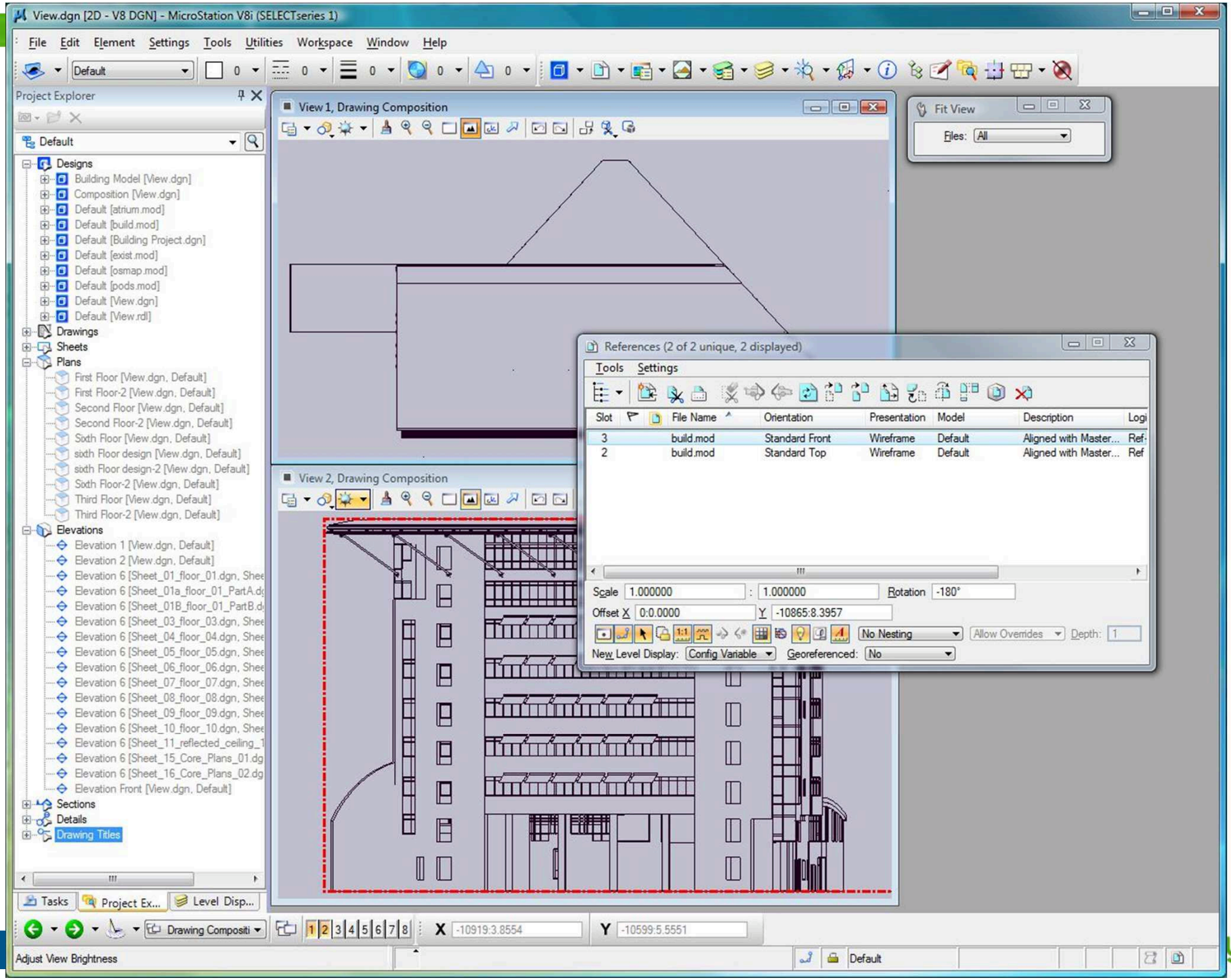

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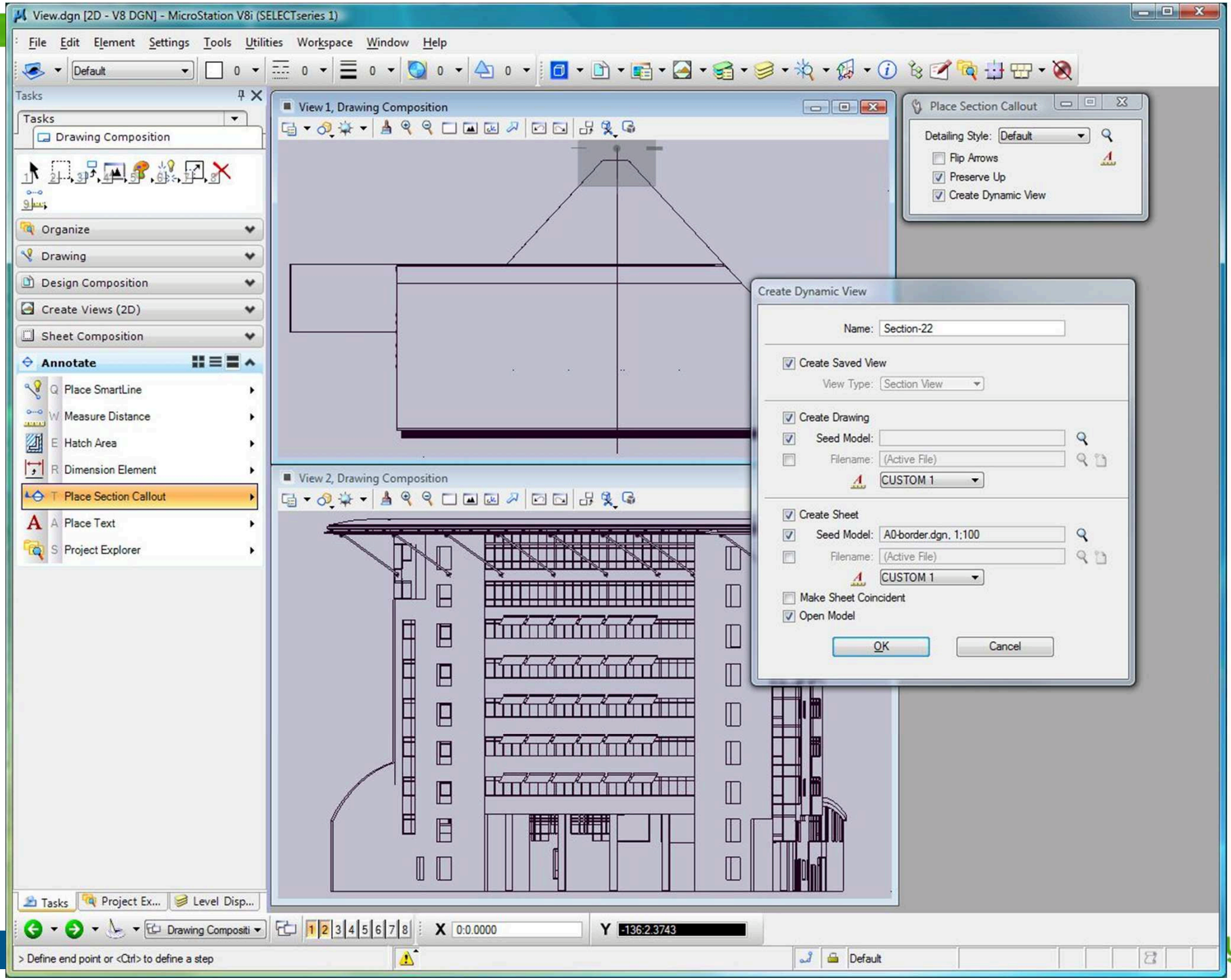

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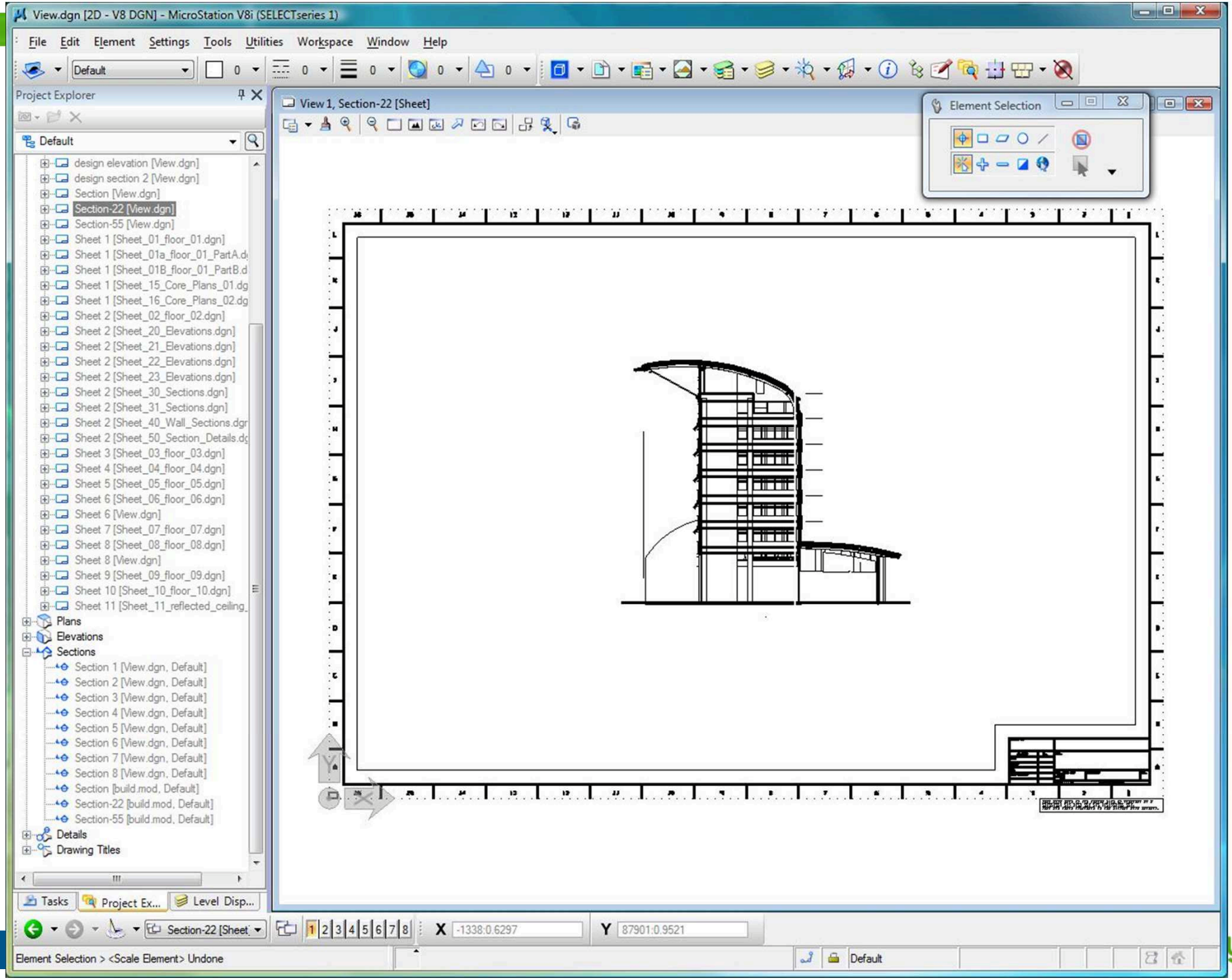

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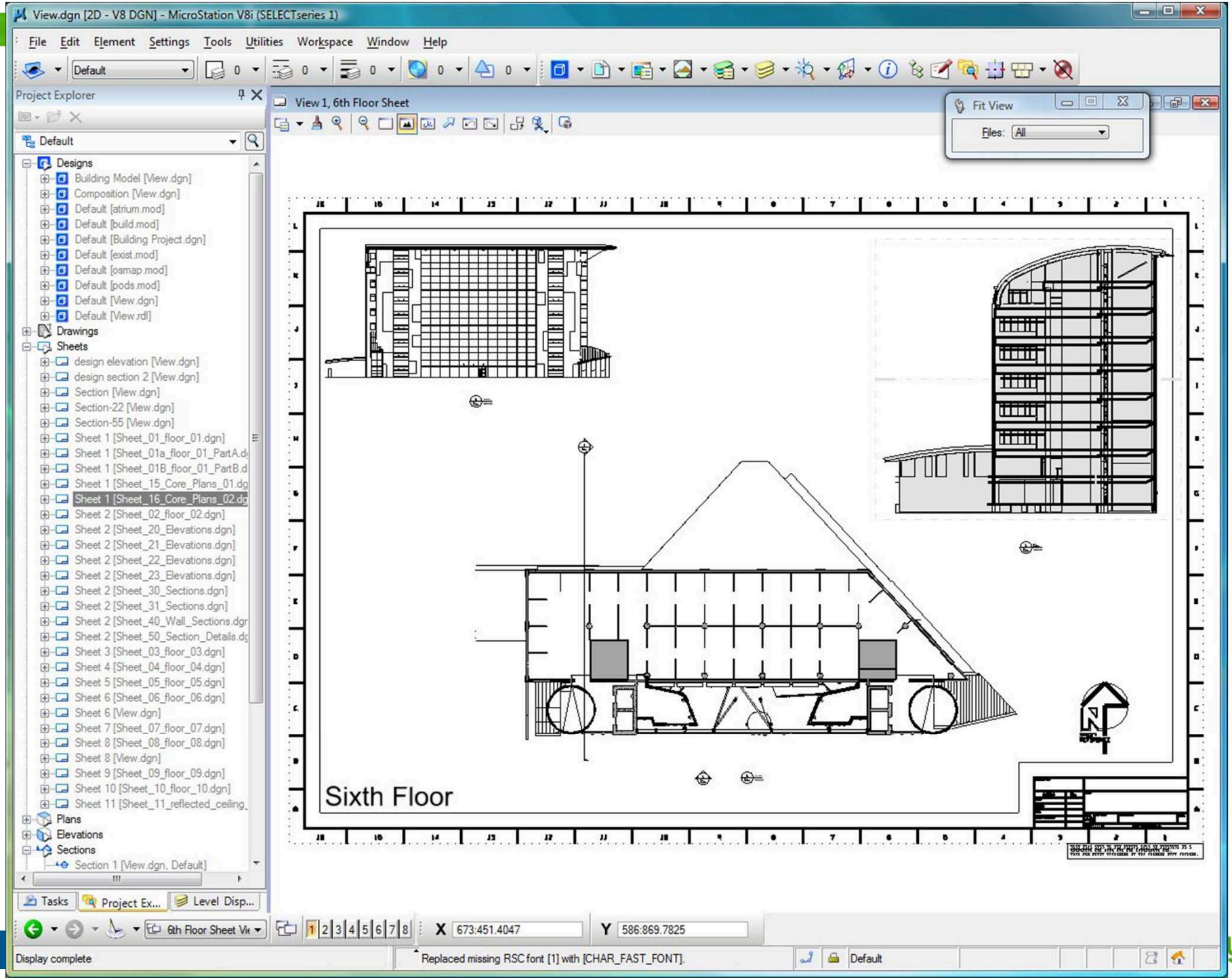

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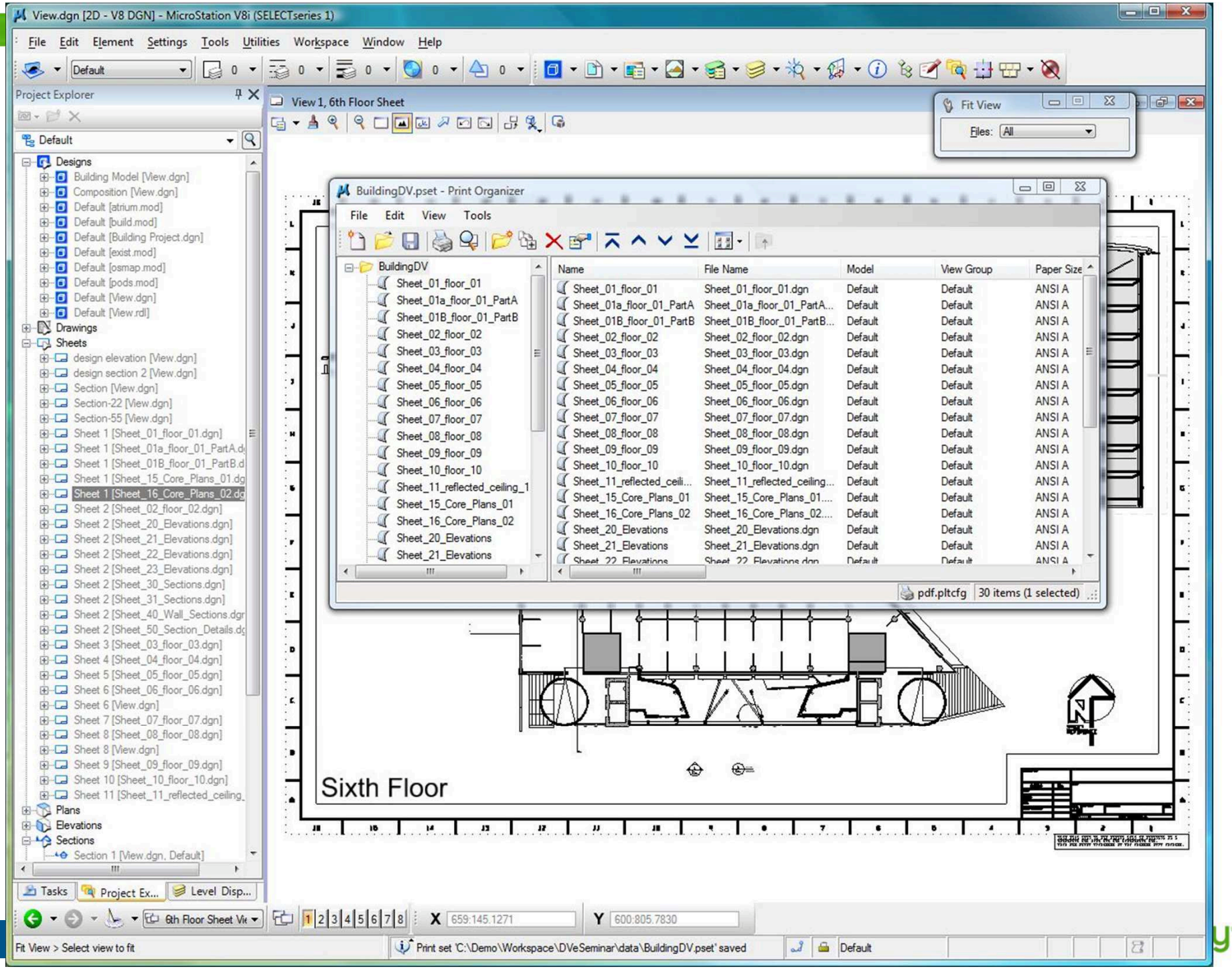

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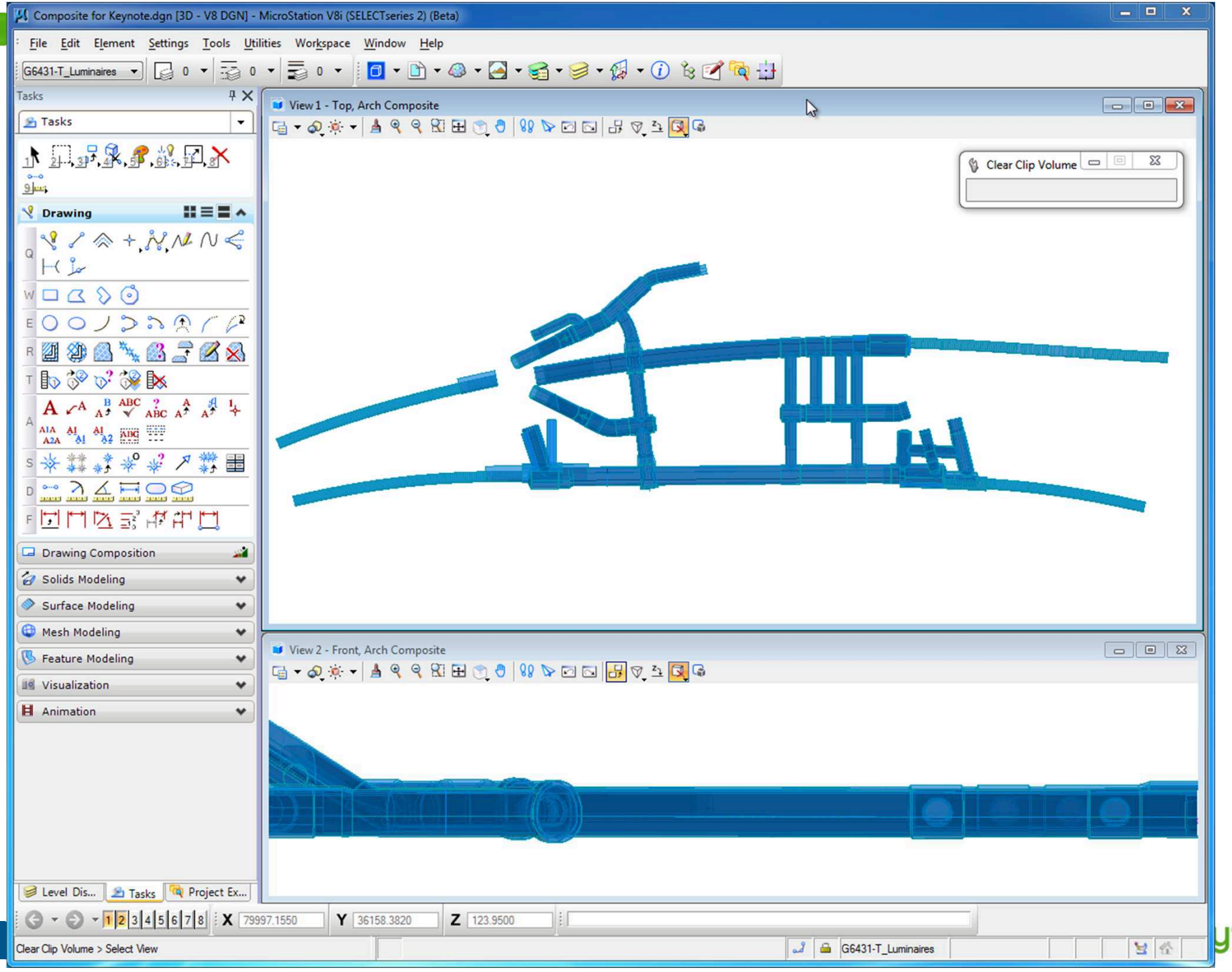

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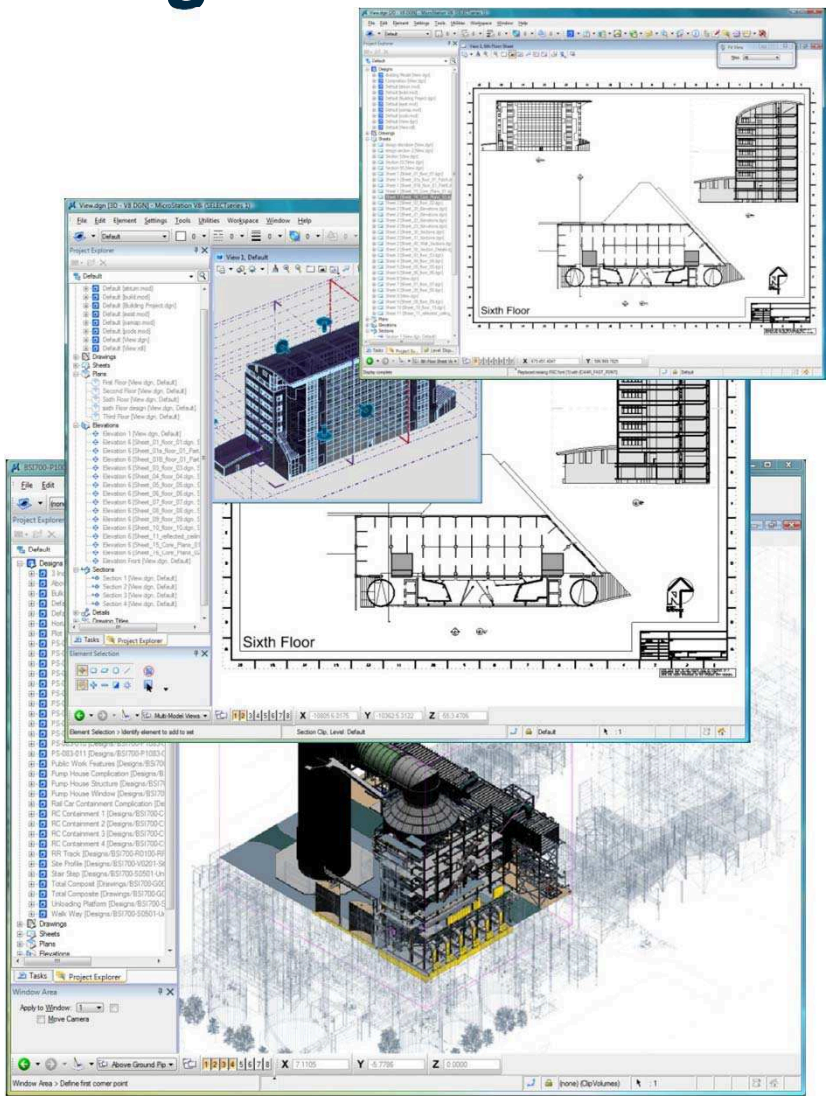
The Dynamic Views Advantage

- Save Time
  - Automate 3D/2D updates
  - Eliminate repetitive tasks
  - Streamline drawing composition
  - Simplify user interaction
- Save Money
  - Improve productivity
  - Reduce risk of errors
- Improve Quality
  - Make design information reliable
  - Produce data-rich deliverables



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Bentley Sustaining Infrastructure

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MicroStation V8*i* (SELECTseries 2)

Intuitive Design Modeling

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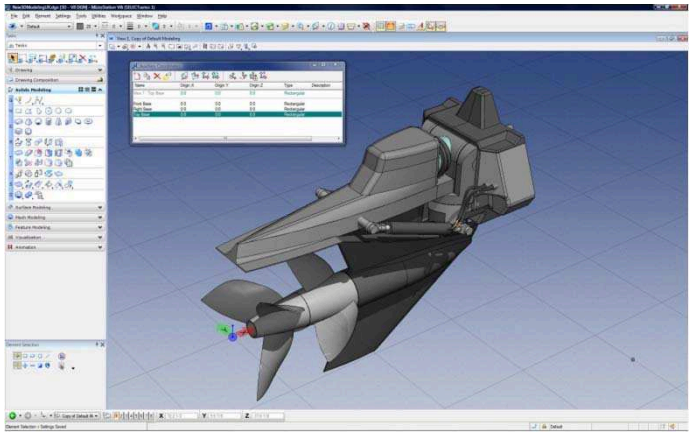
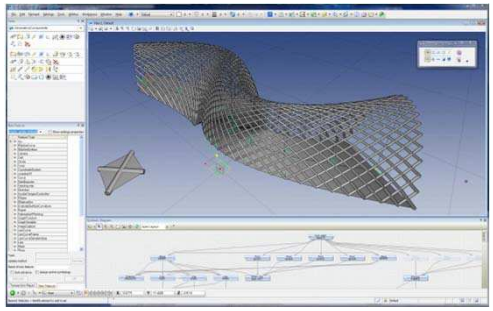
MicroStation V8*i* (SELECTseries 2)

- Intuitive Design Modeling
  - Intuitive New Modeling tools
  - Precise Freeform Modeling tools
  - 3D Printing
  - GenerativeComponents Extension



- New in MicroStation V8*i* (SELECTseries 2)
  - GenerativeComponents Symbolic Diagram
  - GenerativeComponents Element Sensors



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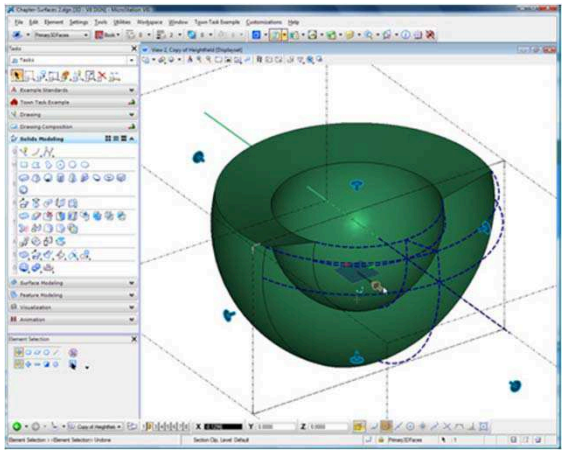
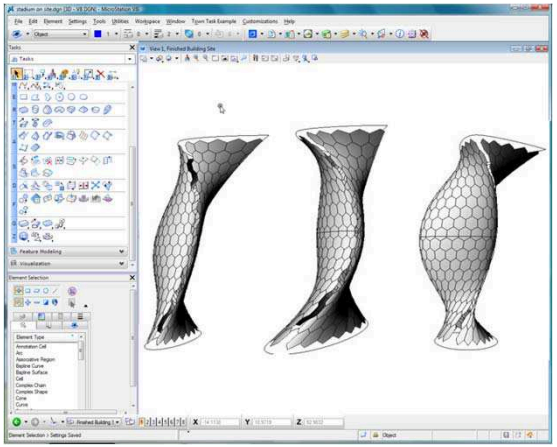
Why Make It “Intuitive”?

- Satisfy all modeling needs using a single 3d modeling application
- Move models from one design stage to the next without lossy translations
- Model intuitively to create more versatile design models
- Edit models by simply pushing on and pulling at 3d faces
- Generate parametric design models for rapid iteration through design options





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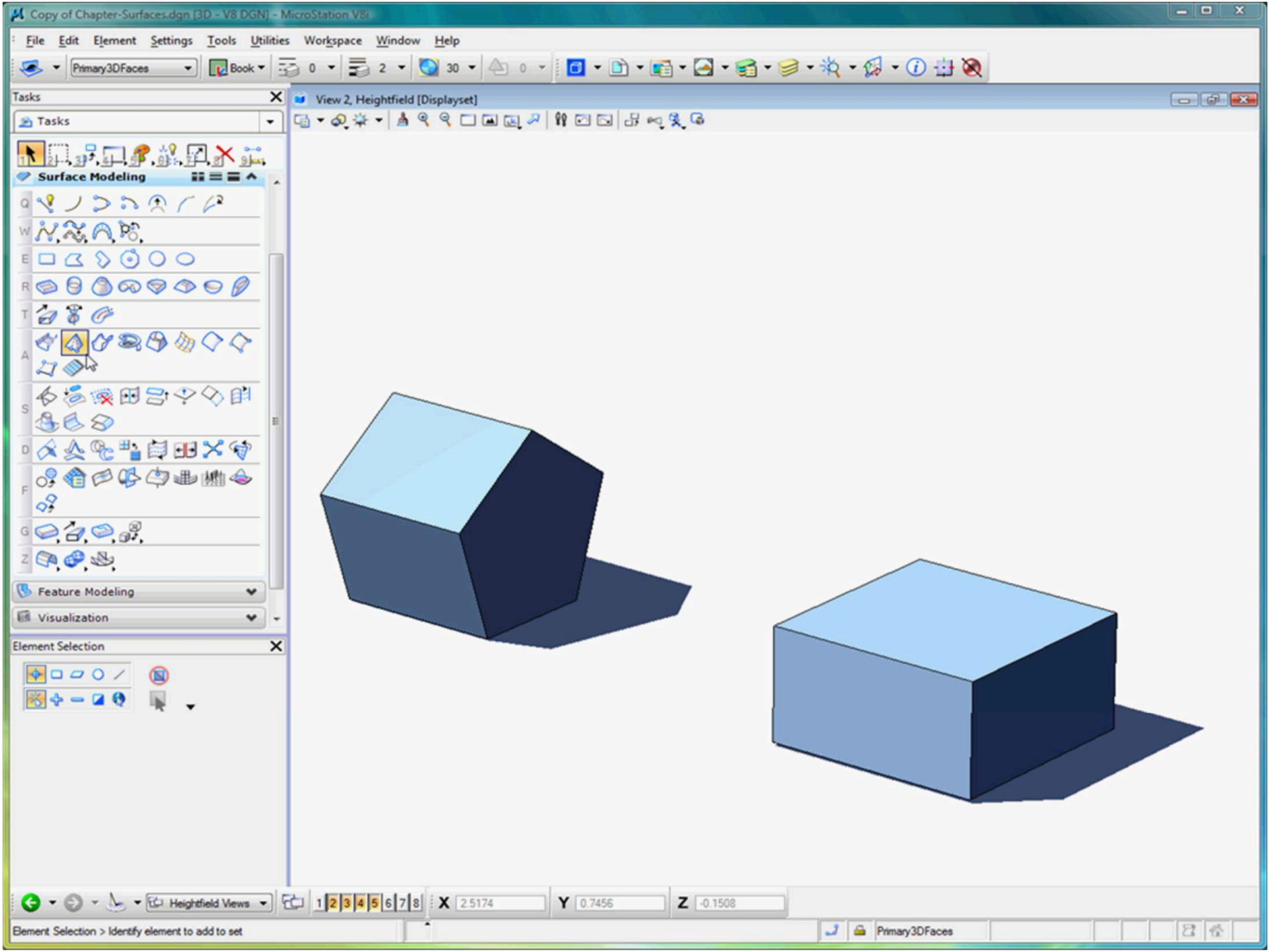
Copy of Chapter-Surfaces.dgn [3D - V8 DGN] - MicroStation V8i
File Edit Element Settings Tools Utilities Workspace Window Help
Primary3DFaces
Book
Tasks
Surface Modeling
Feature Modeling
Visualization
Element Selection
View 2, Heightfield [Displayset]
Heightfield Views
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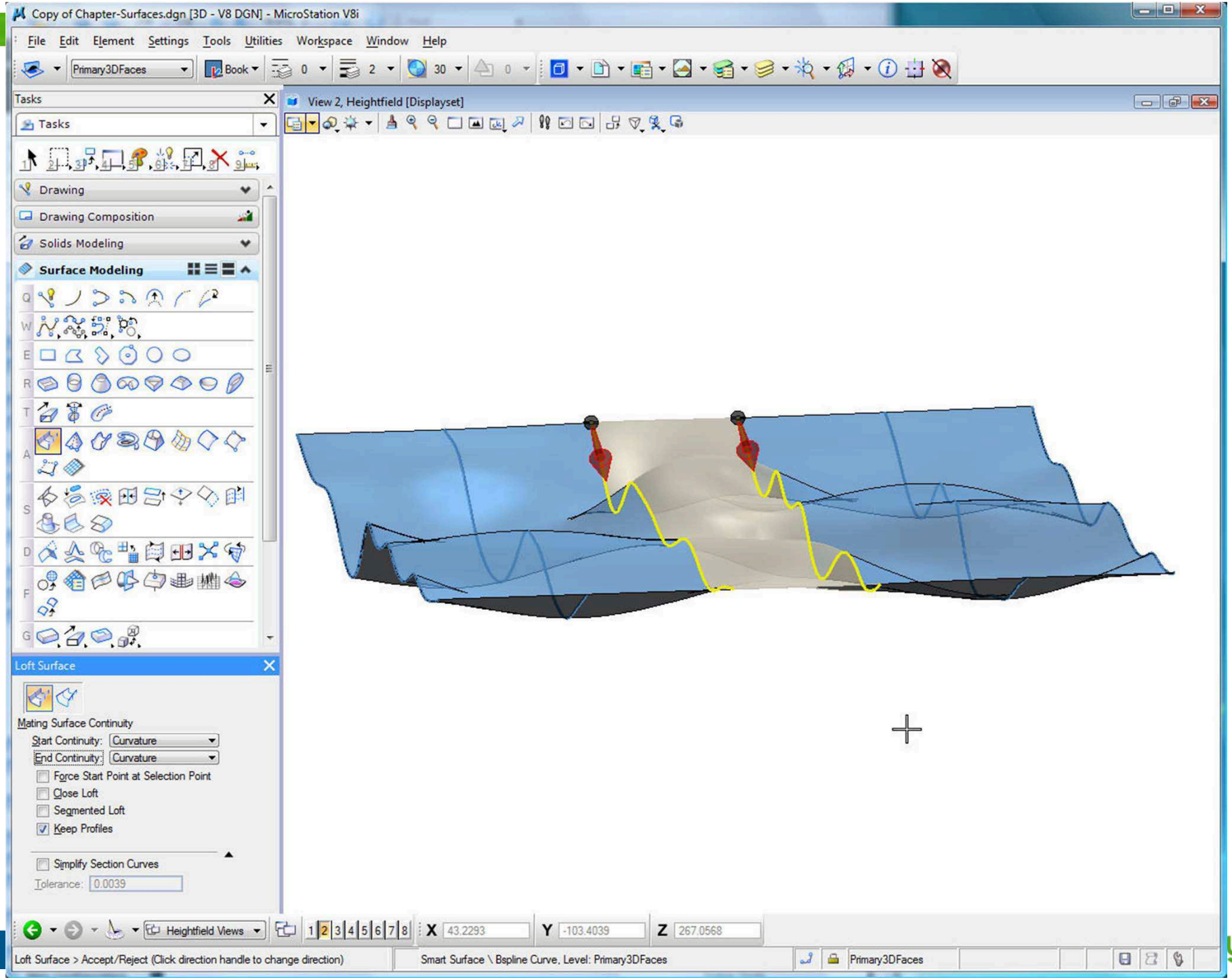
Y 0.7456
Z -0.1508
Element Selection > Identify element to add to set
Primary3DFaces



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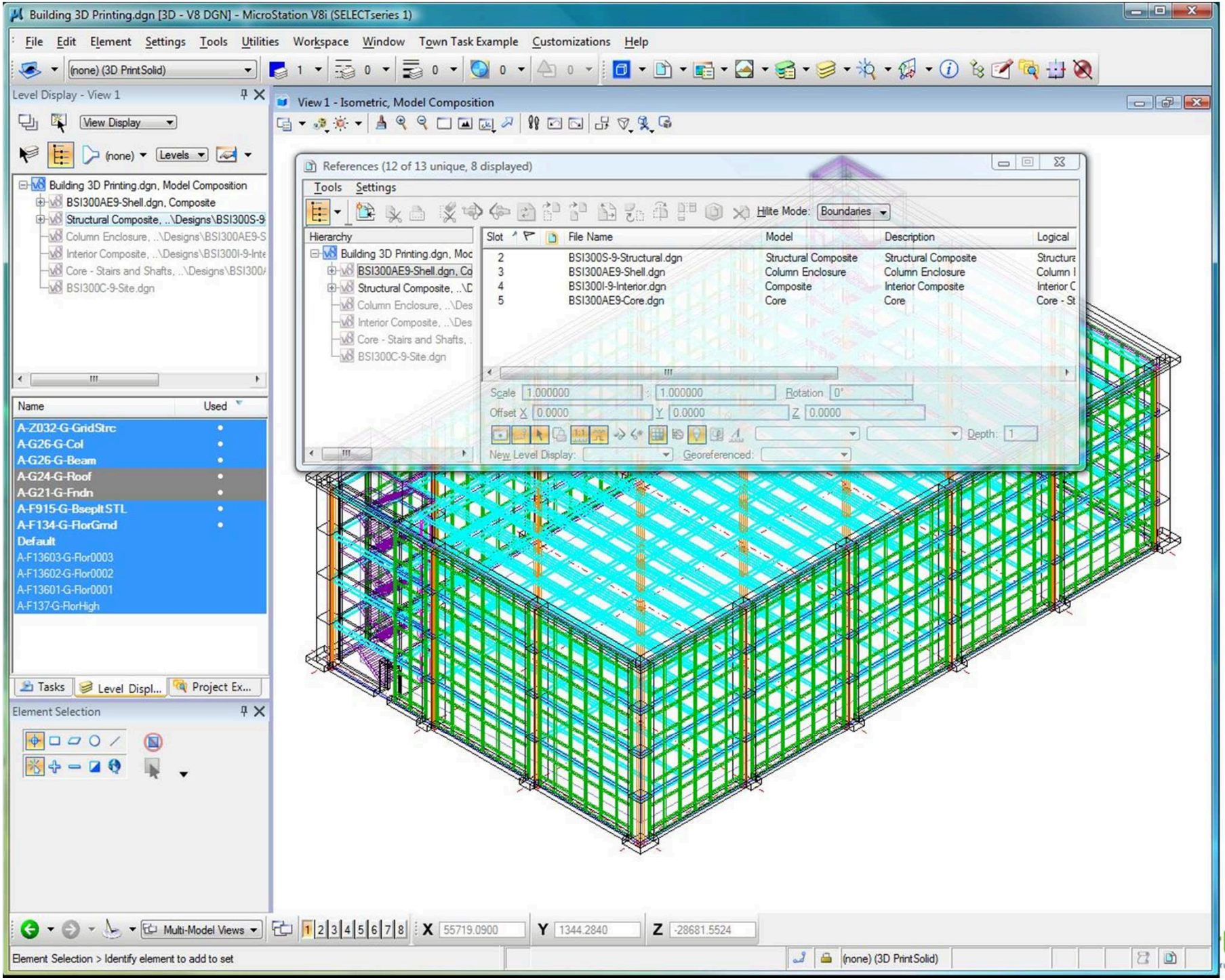

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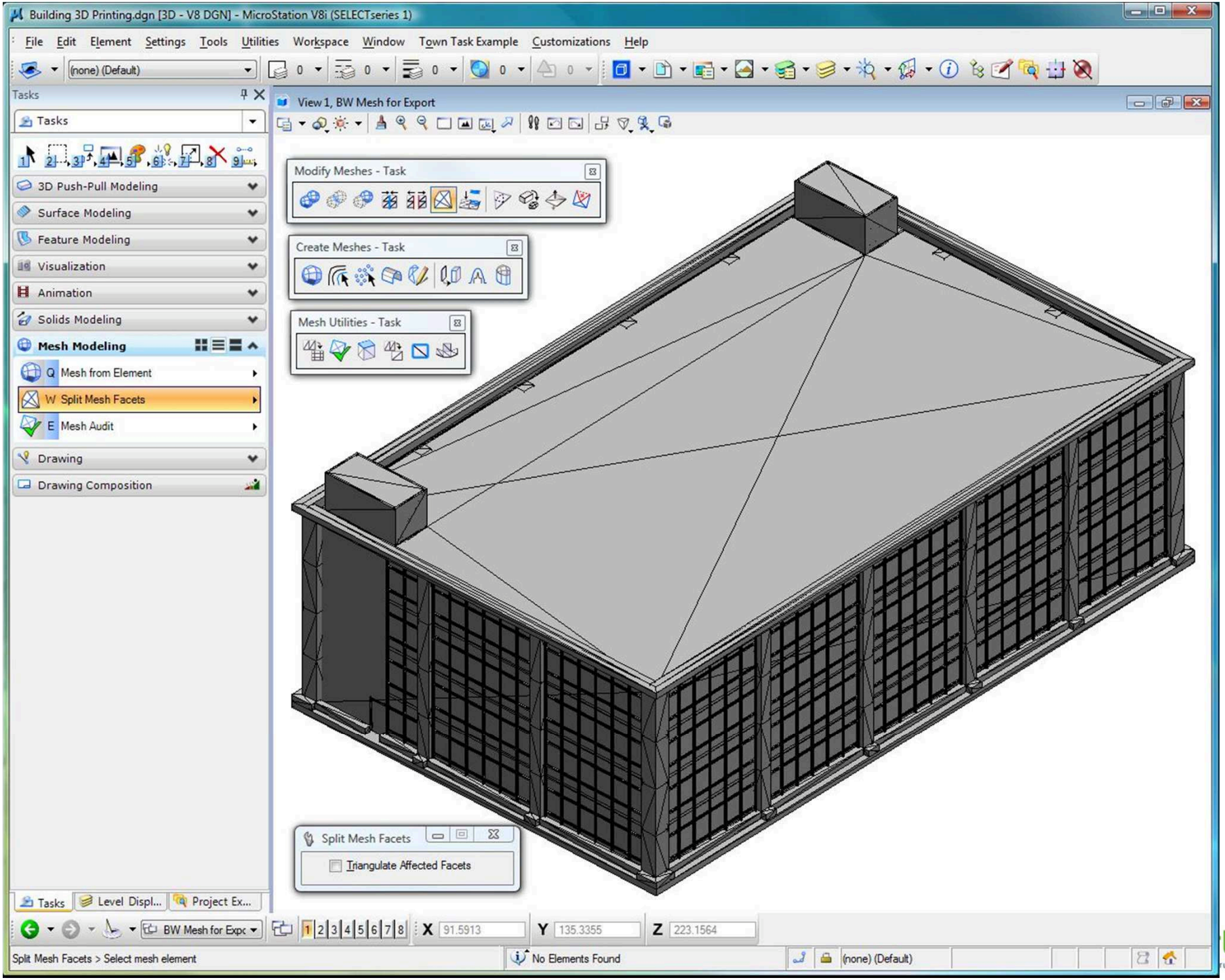

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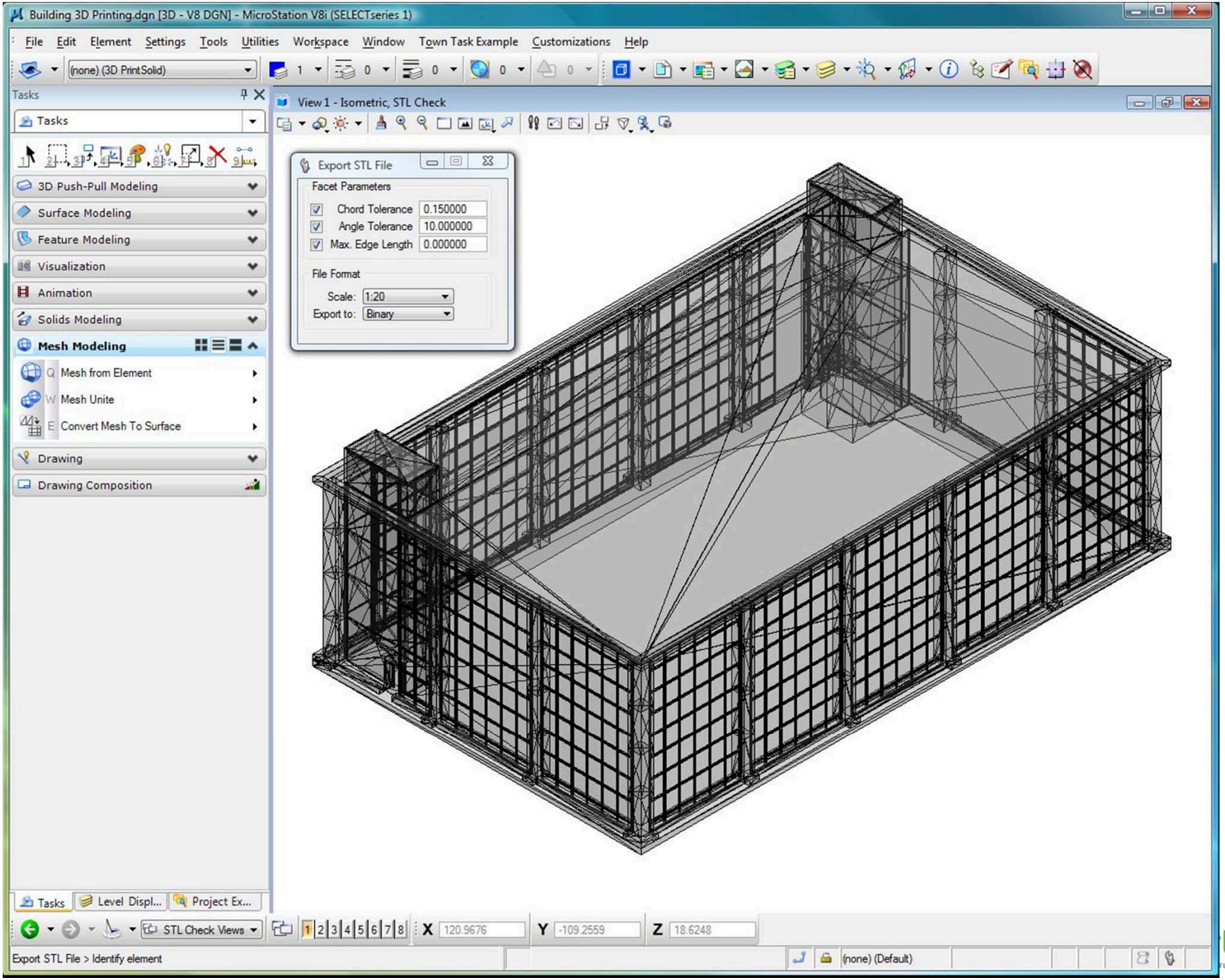

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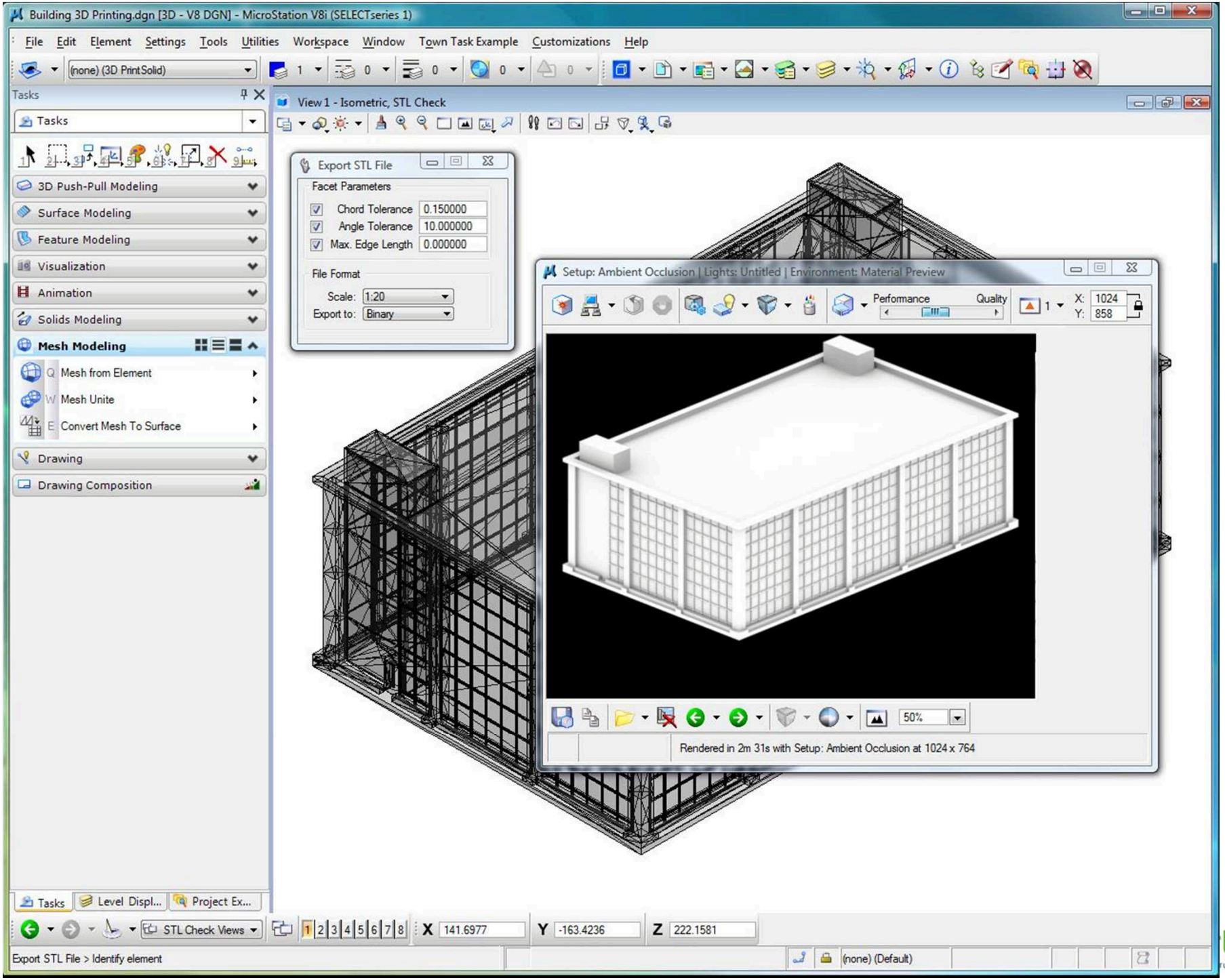

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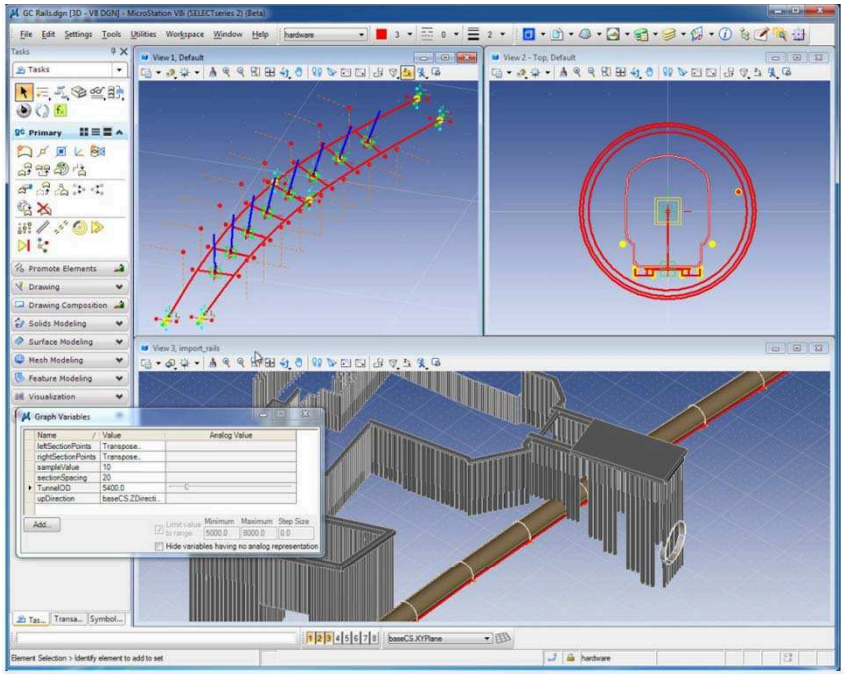
GenerativeComponents Extension

- Automate design processes and accelerate design iterations
- Pursue designs and achieve results that were virtually unthinkable before
- Leverage the power and flexibility of computational design and associative parametric modeling



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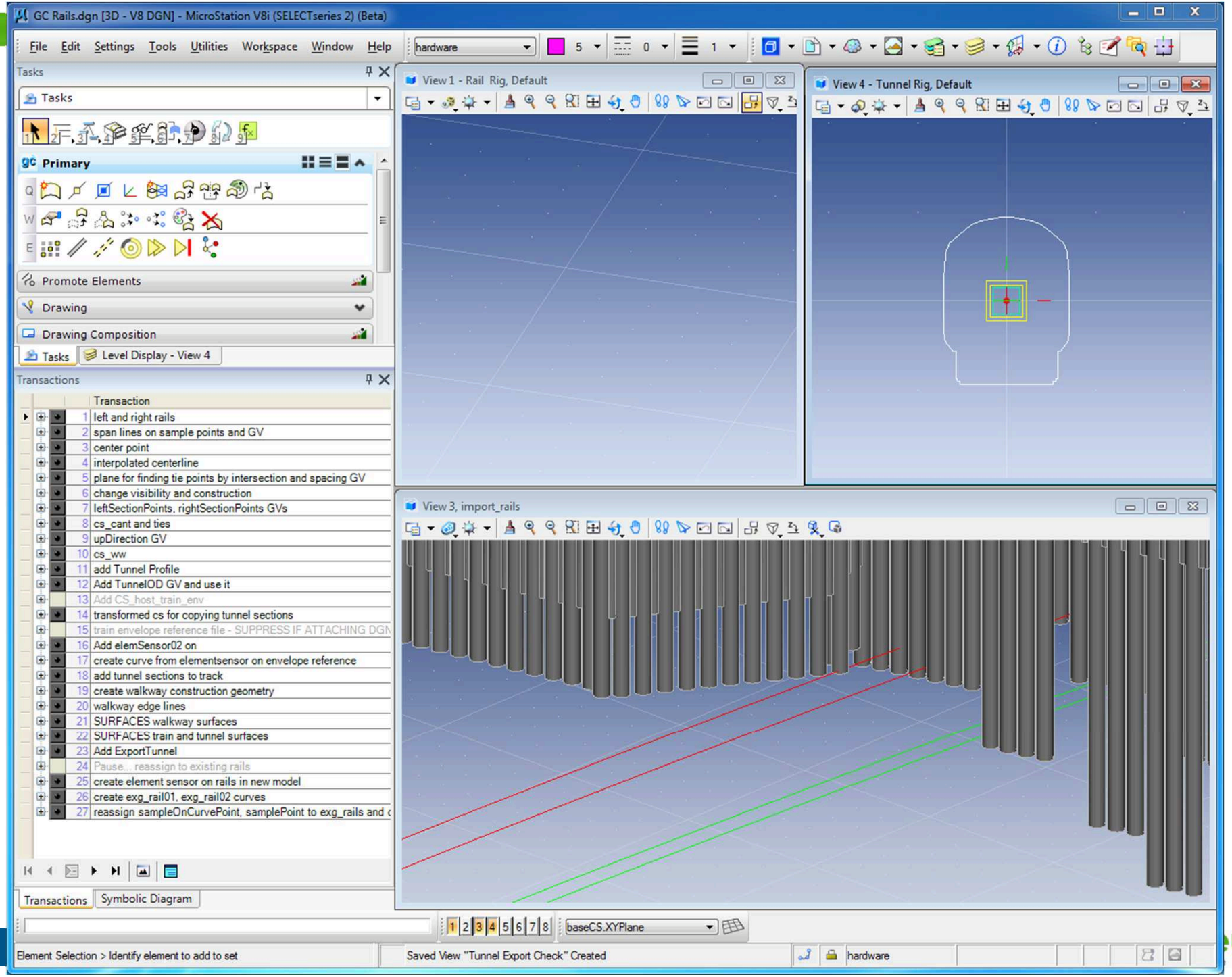

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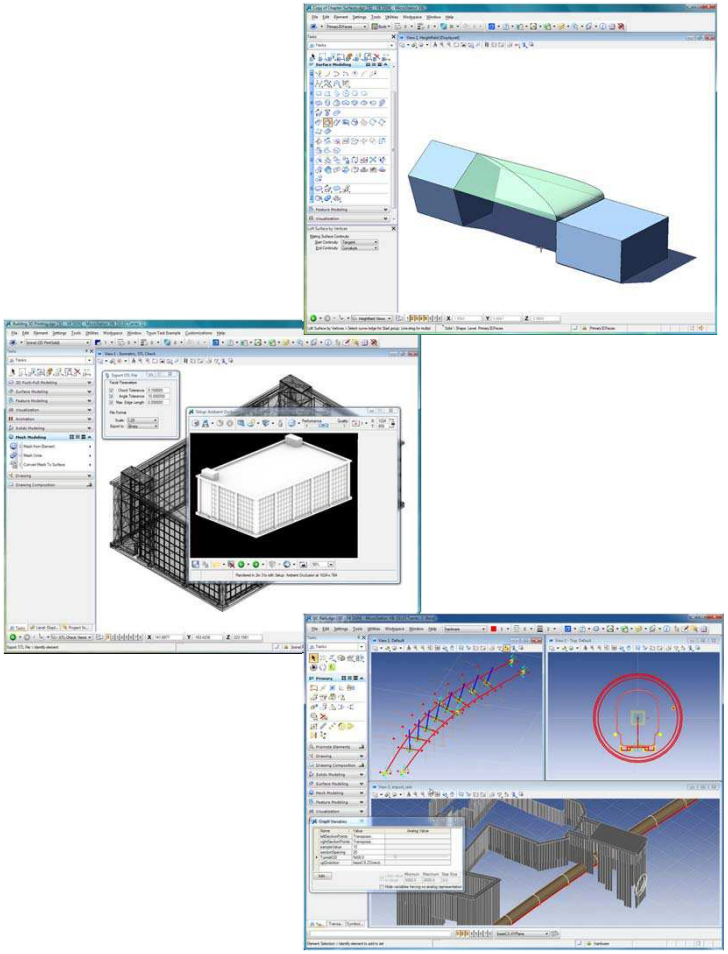
The Intuitive Modeling Advantage

- Save Time
  - Create and edit models faster
  - Avoid duplicating effort
  - Streamline 3D printing process
  - Reuse models from 3rd parties
- Improve Quality
  - Integrate design data
  - Eliminate unnecessary detail
- Save Money
  - Maintain fewer 3D applications
  - Pressure-test digital model before printing to 3D media reduces waste



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MicroStation V8*i* (SELECTseries 2)

Insightful Design Review

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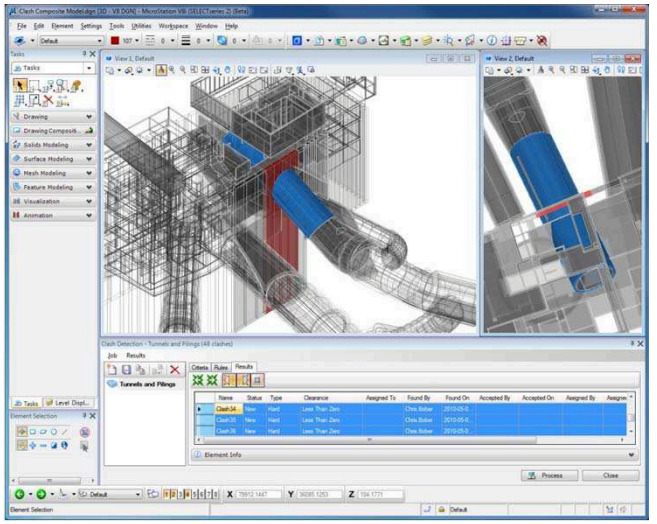
MicroStation V8*i* (SELECTseries 2)

- Insightful Design Review
  - Overlay Files
  - Mark up Manager
  - i-model Creation



- New in MicroStation V8*i* (SELECTseries 2)
  - ProjectWise Clash Detection*
  - ProjectWise Schedule Simulation*
  - *Requires ProjectWise Visa

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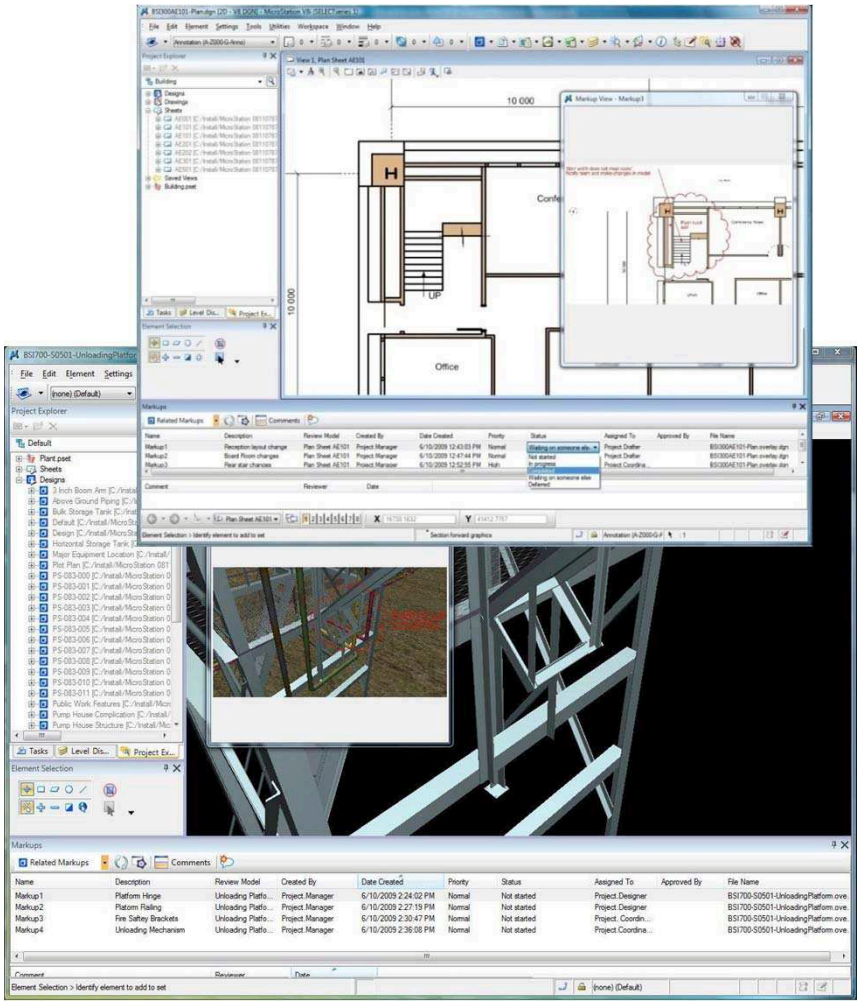
Why Review Designs on Screen?

- Eliminate rooms full of drawings and review designs electronically
- Assemble and review multiple files to coordinate and analyze design decisions
- Enable multi-discipline project teams to add comments to project designs
- Track comment status using the design review mark-up dialog
- Publish all design information to an optimized 3d model file format for interactive review



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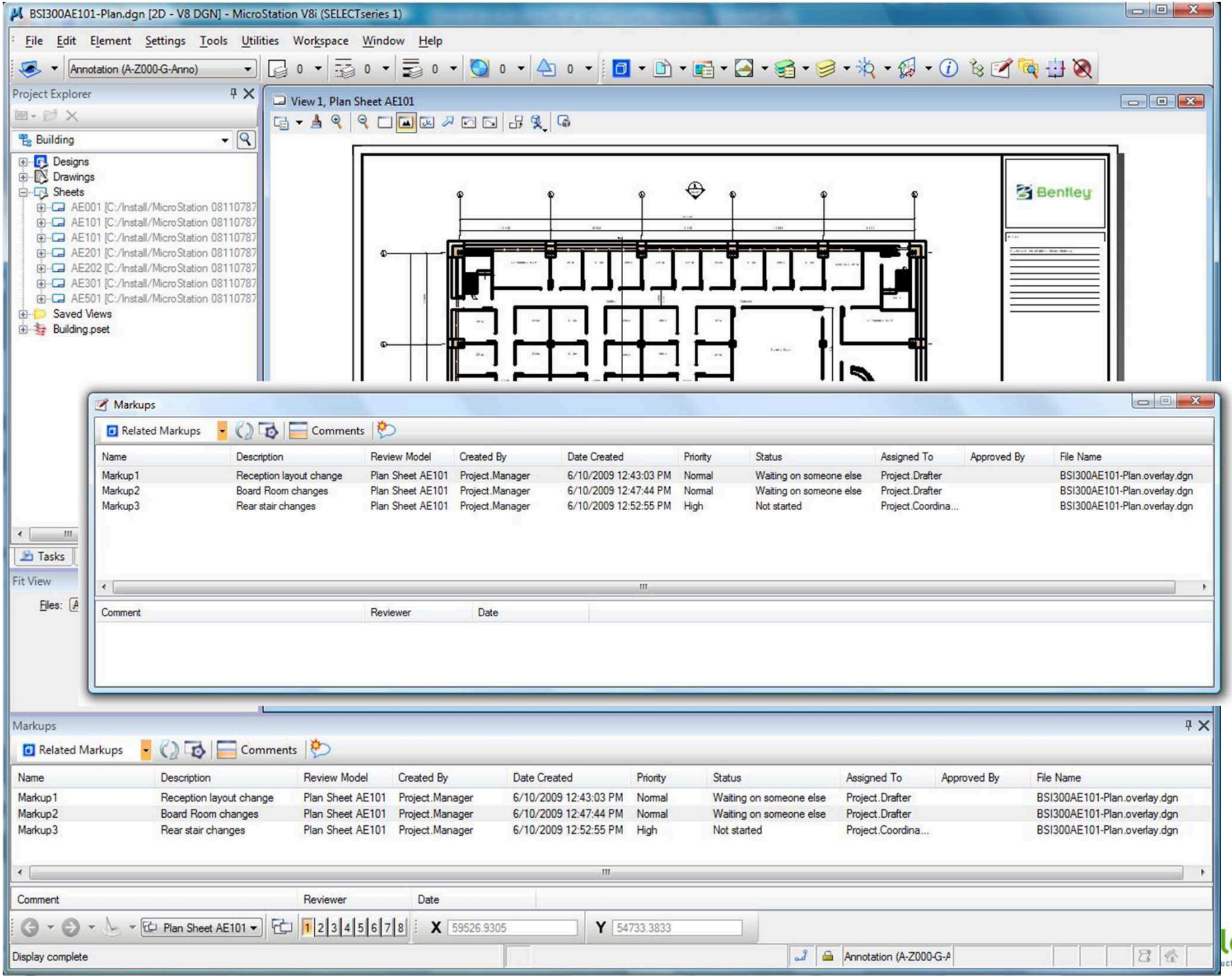

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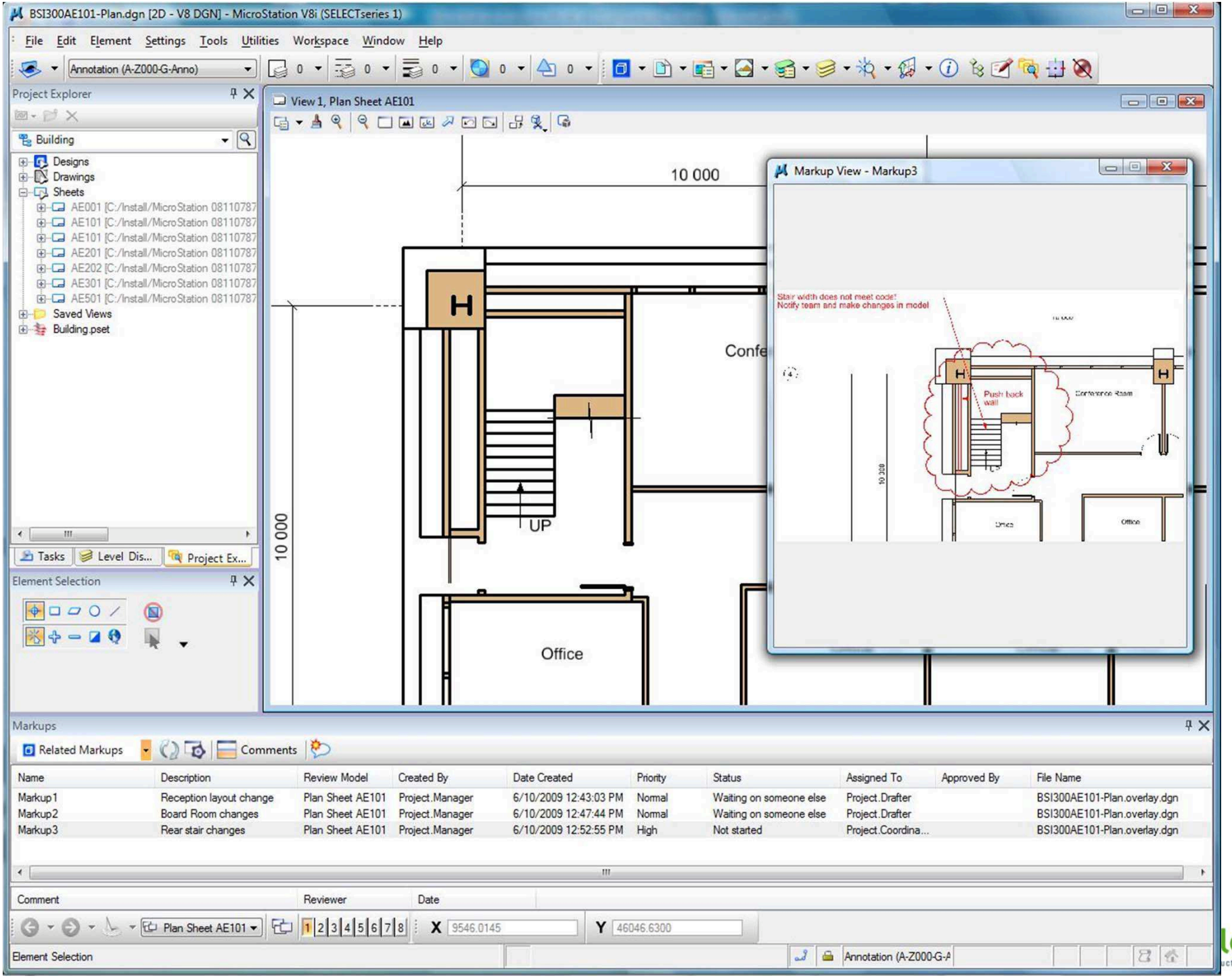

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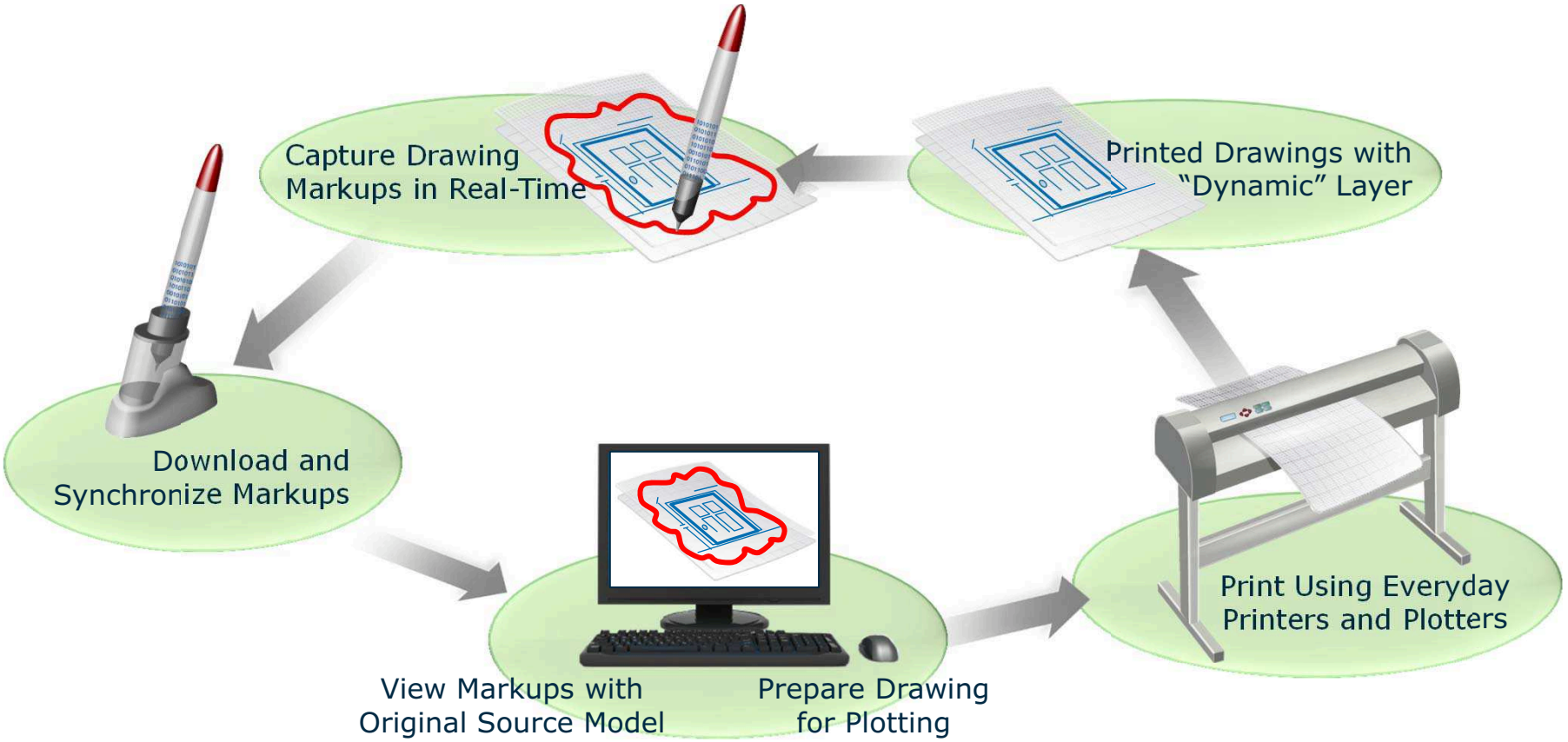

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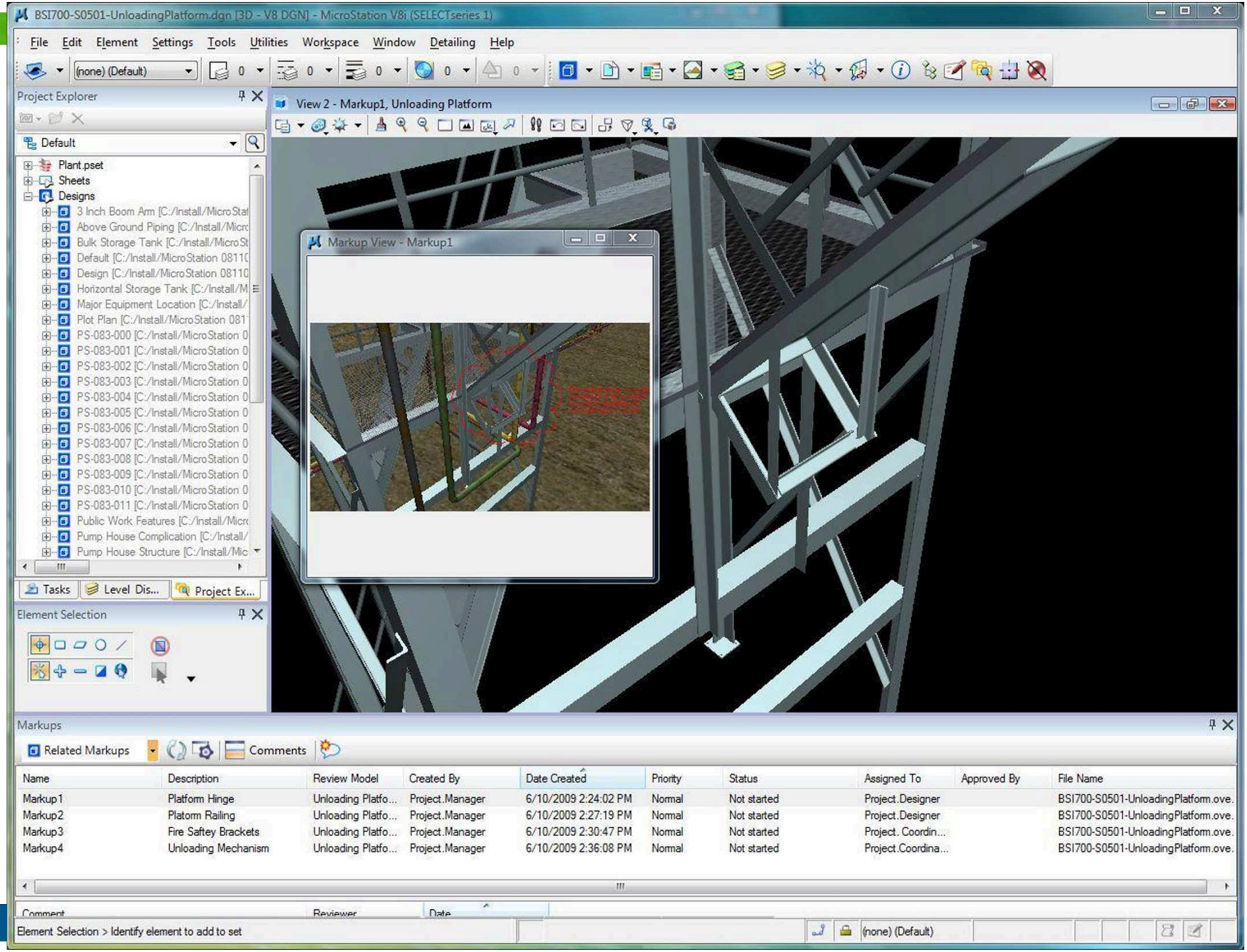
BSI700-S0501-UnloadingPlatform.dgn [3D - V8 DGN] - MicroStation V8i (SELECTseries 1)
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Markup View - Markup1
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Markups
Related Markups
Comments
Name Description Review Model Created By Date Created Priority Status Assigned To Approved By File Name
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Markup2 Platorm Railing Unloading Platfo... Project.Manager 6/10/2009 2:27:19 PM Normal Not started Project.Designer BSI700-S0501-UnloadingPlatform.ove.
Markup3 Fire Saftey Brackets Unloading Platfo... Project.Manager 6/10/2009 2:30:47 PM Normal Not started Project. Coordin... BSI700-S0501-UnloadingPlatform.ove.
Markup4 Unloading Mechanism Unloading Platfo... Project.Manager 6/10/2009 2:36:08 PM Normal Not started Project.Coordina... BSI700-S0501-UnloadingPlatform.ove.
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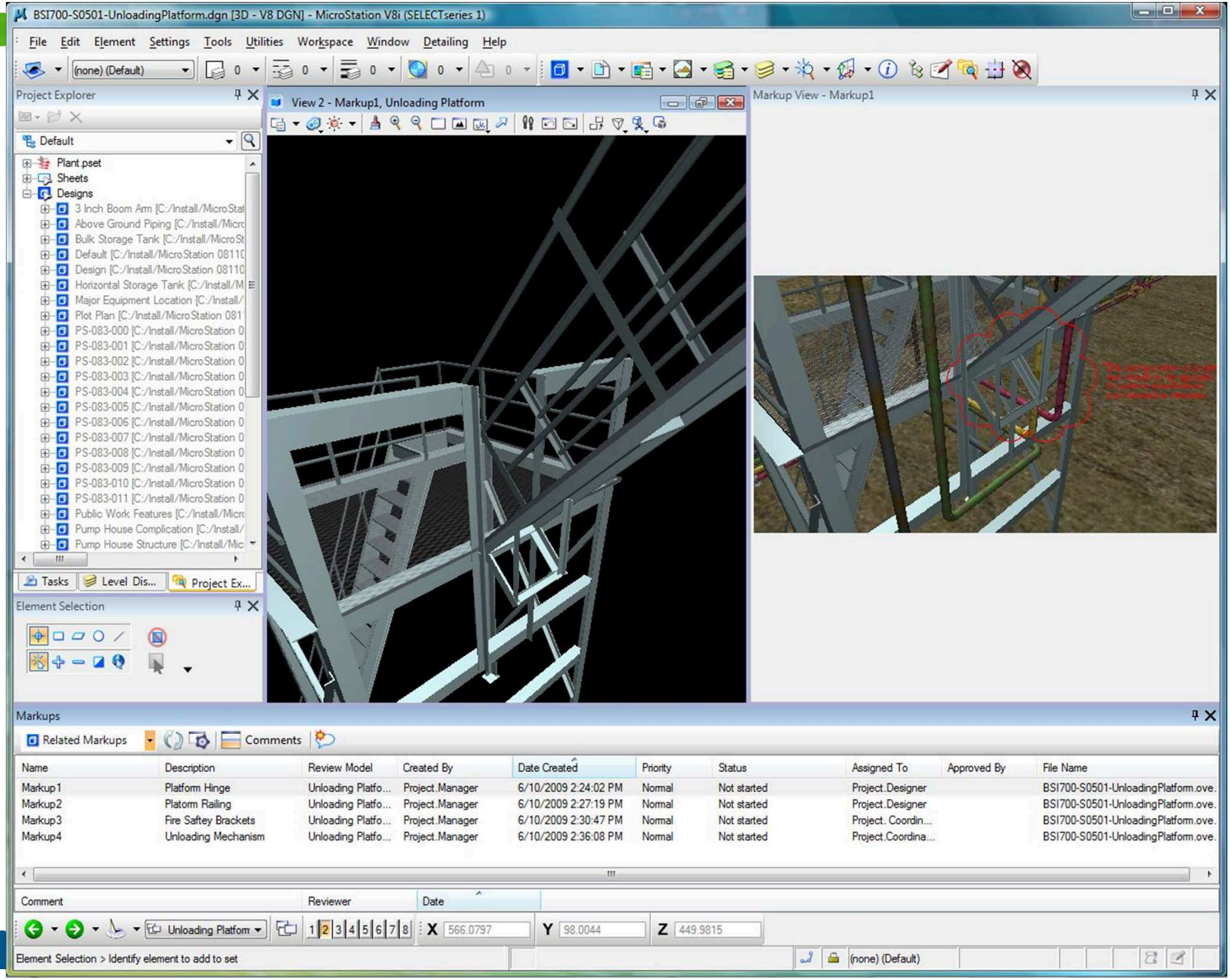

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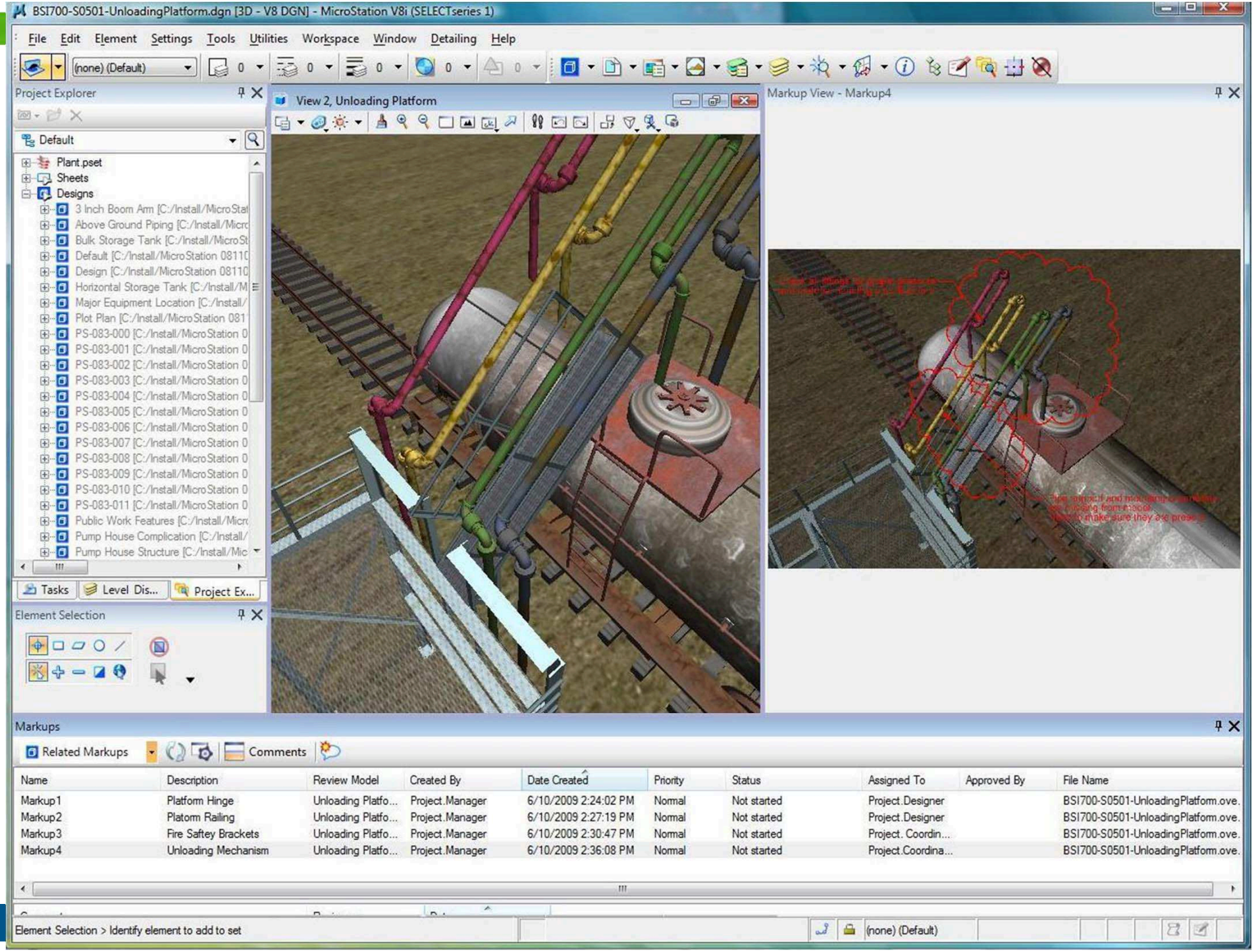
BSI700-S0501-UnloadingPlatform.dgn [3D - V8 DGN] - MicroStation V8i (SELECTseries 1)
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Markup4 Unloading Mechanism Unloading Platfo... Project.Manager 6/10/2009 2:36:08 PM Normal Not started Project.Coordina... BSI700-S0501-UnloadingPlatform.ove.
Element Selection > Identify element to add to set
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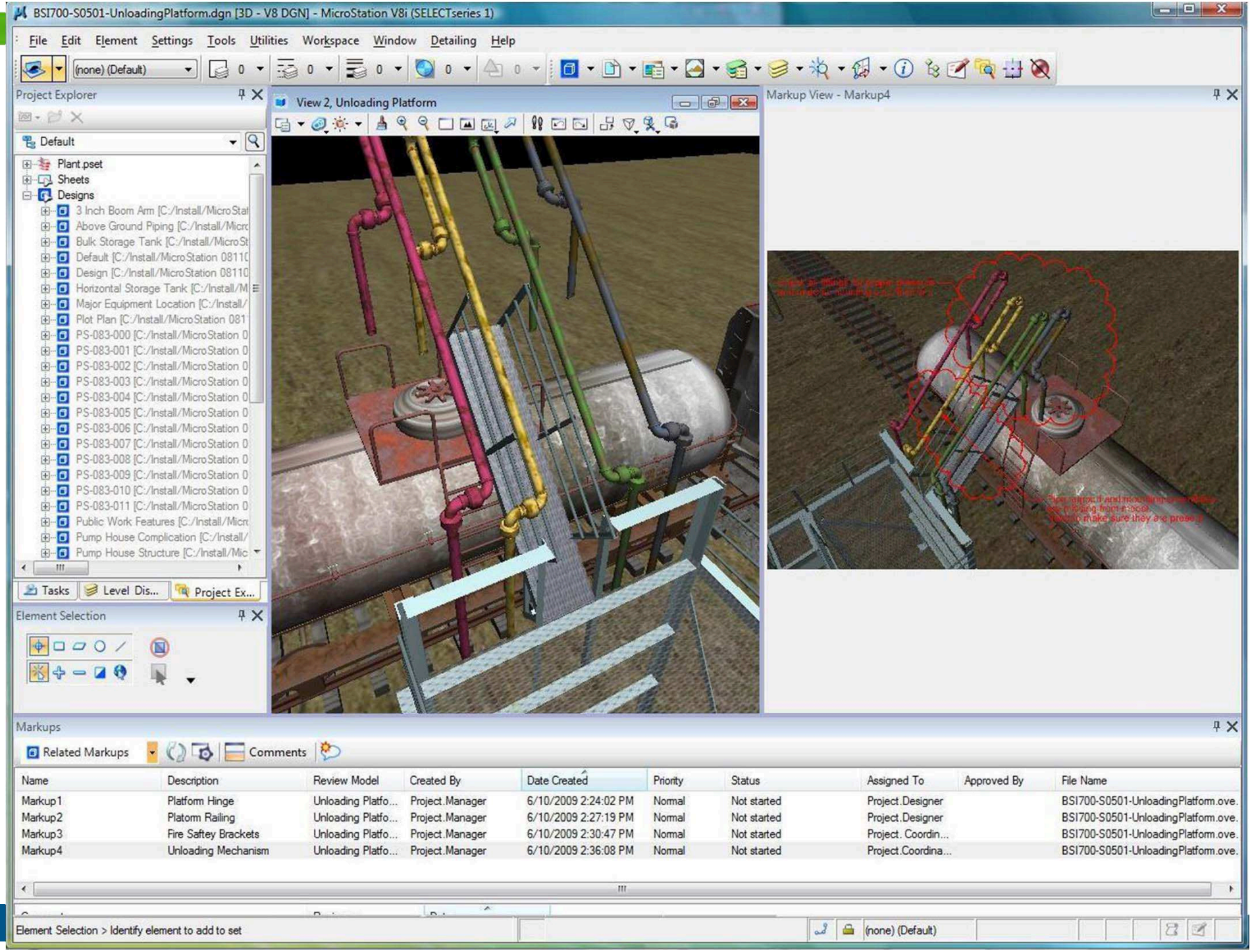
BSI700-S0501-UnloadingPlatform.dgn [3D - V8 DGN] - MicroStation V8i (SELECTseries 1)
File Edit Element Settings Tools Utilities Workspace Window Detailing Help
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Above Ground Piping [C:/Install/Micro
Bulk Storage Tank [C:/Install/MicroSt
Default [C:/Install/MicroStation 0811
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Project Ex...
Element Selection
View 2, Unloading Platform
Markup View - Markup4
Markups
Related Markups
Comments
Name | Description | Review Model | Created By | Date Created | Priority | Status | Assigned To | Approved By | File Name
Markup1 | Platform Hinge | Unloading Platfo... | Project.Manager | 6/10/2009 2:24:02 PM | Normal | Not started | Project.Designer | | BSI700-S0501-UnloadingPlatform.ove.
Markup2 | Platorm Railing | Unloading Platfo... | Project.Manager | 6/10/2009 2:27:19 PM | Normal | Not started | Project.Designer | | BSI700-S0501-UnloadingPlatform.ove.
Markup3 | Fire Saftey Brackets | Unloading Platfo... | Project.Manager | 6/10/2009 2:30:47 PM | Normal | Not started | Project. Coordin... | | BSI700-S0501-UnloadingPlatform.ove.
Markup4 | Unloading Mechanism | Unloading Platfo... | Project.Manager | 6/10/2009 2:36:08 PM | Normal | Not started | Project.Coordina... | | BSI700-S0501-UnloadingPlatform.ove.
Element Selection > Identify element to add to set
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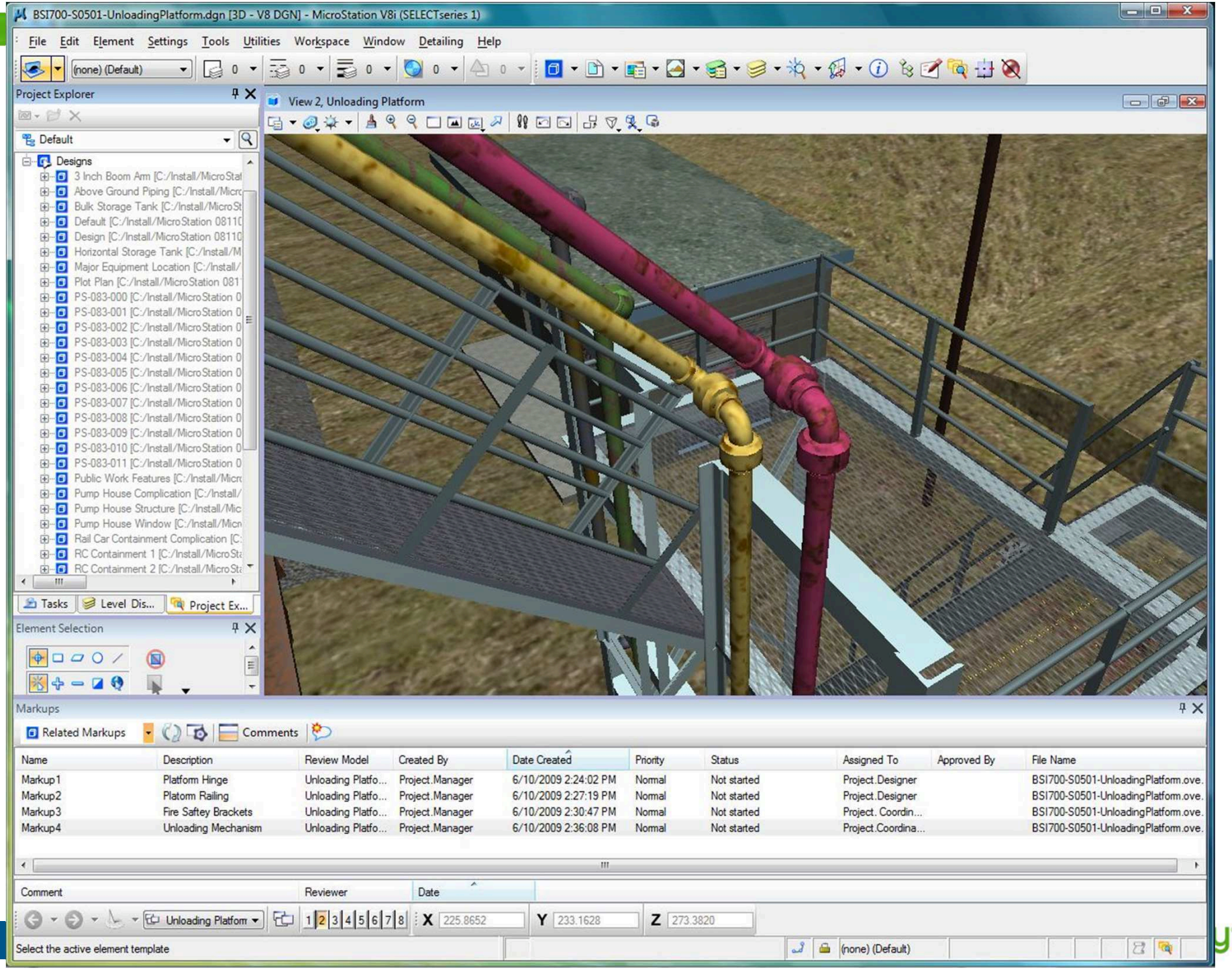

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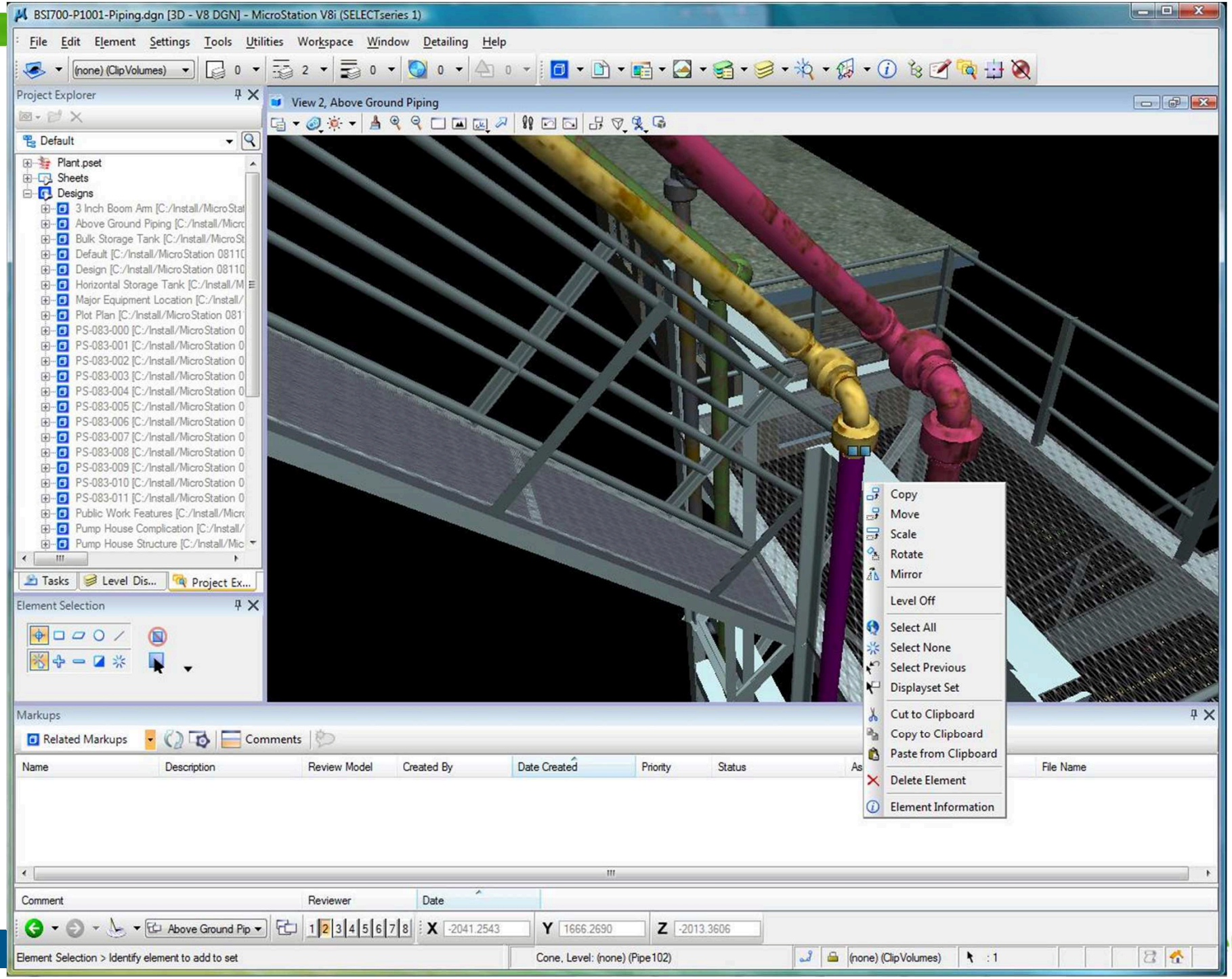

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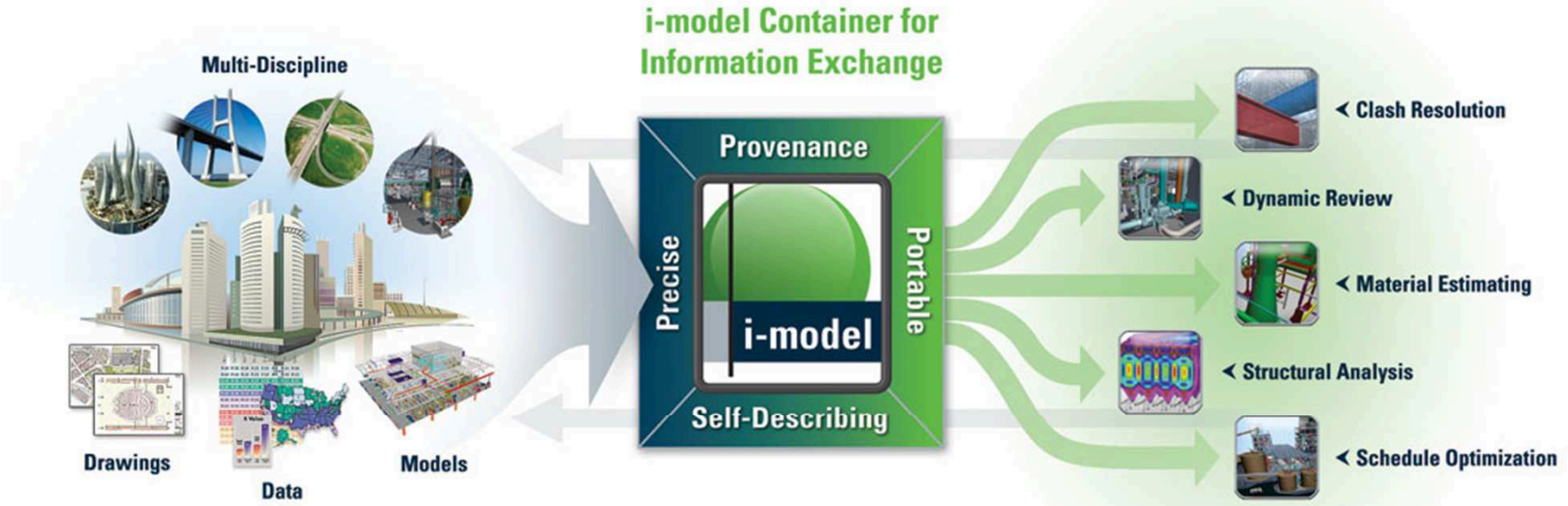
What is an i-model?



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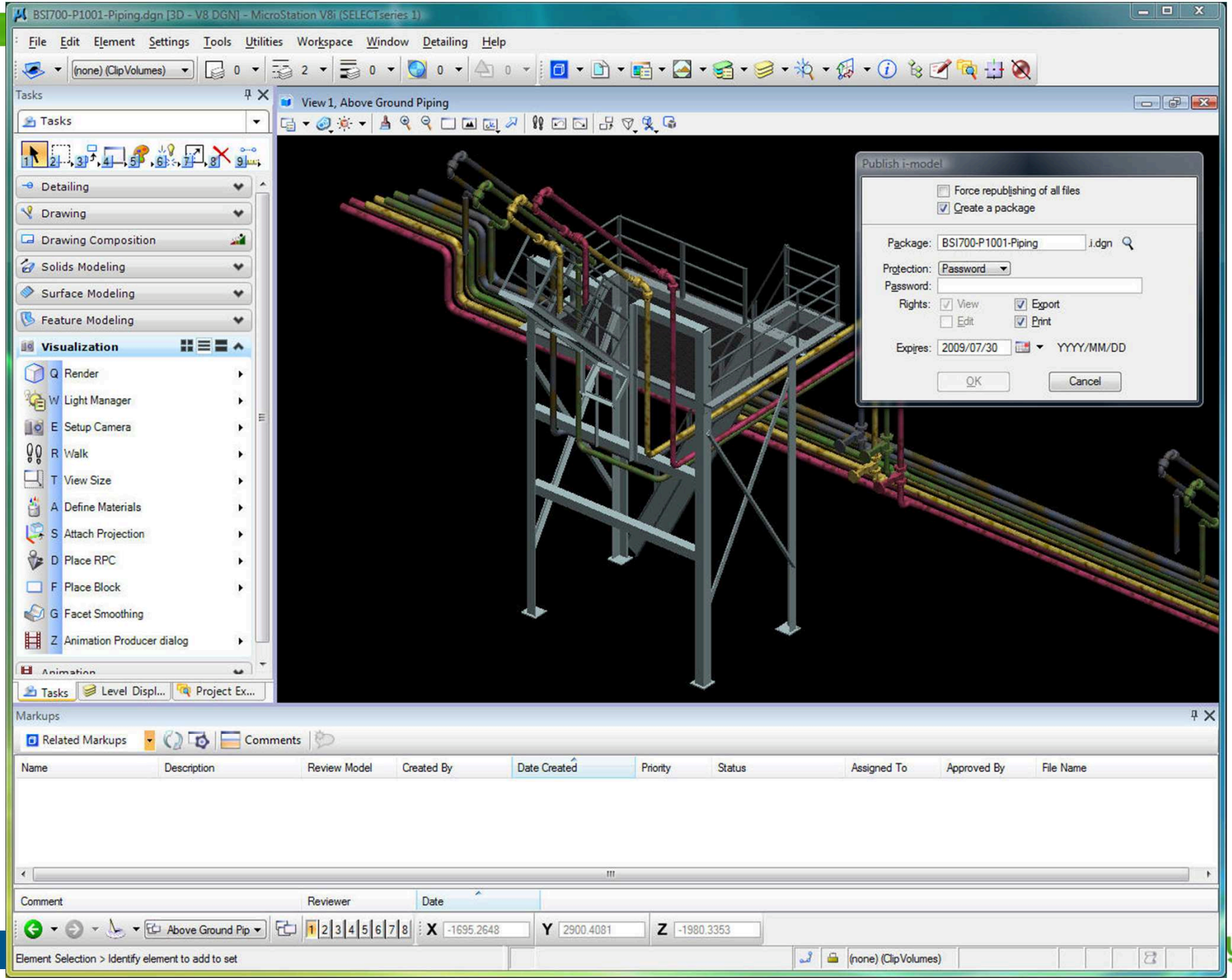

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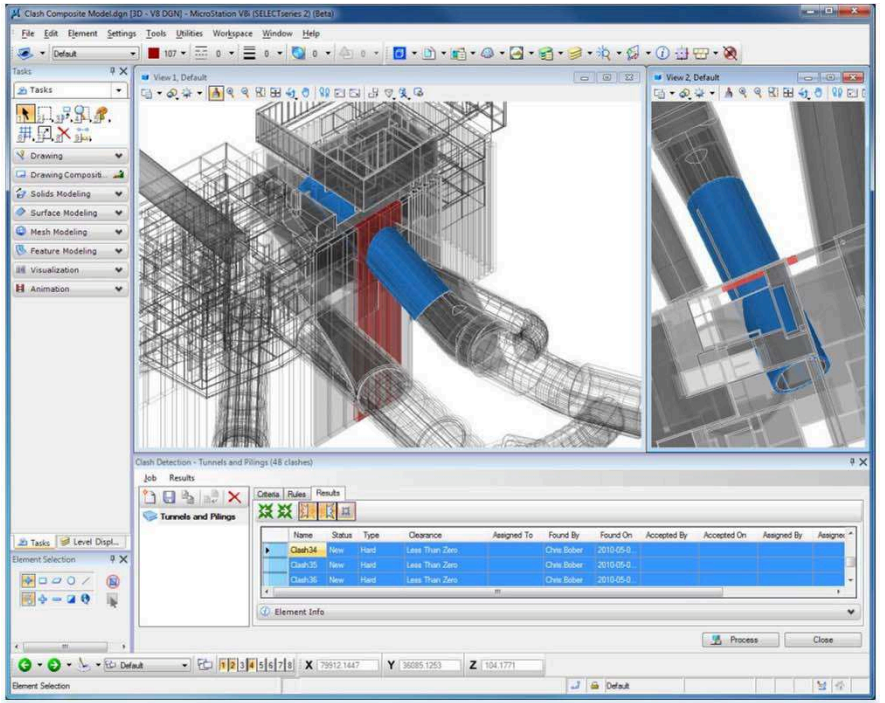
MicroStation V8*i* (SELECTseries 2)

- Clash Resolution
  - Validate design at the time of creation
  - Make changes in real-time during design and layout to avoid costly mistakes downstream
  - ProjectWise Clash Resolution Visa Required



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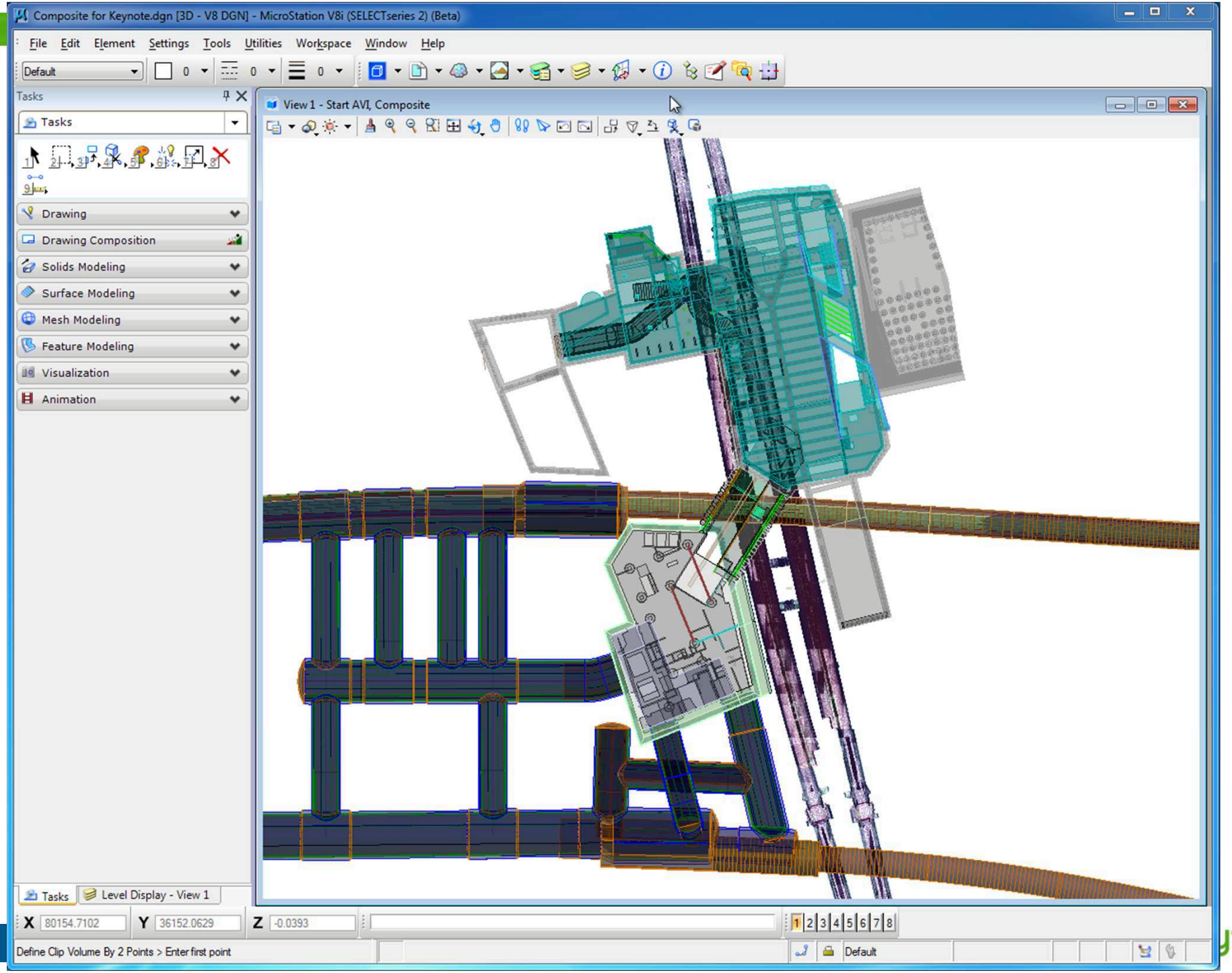

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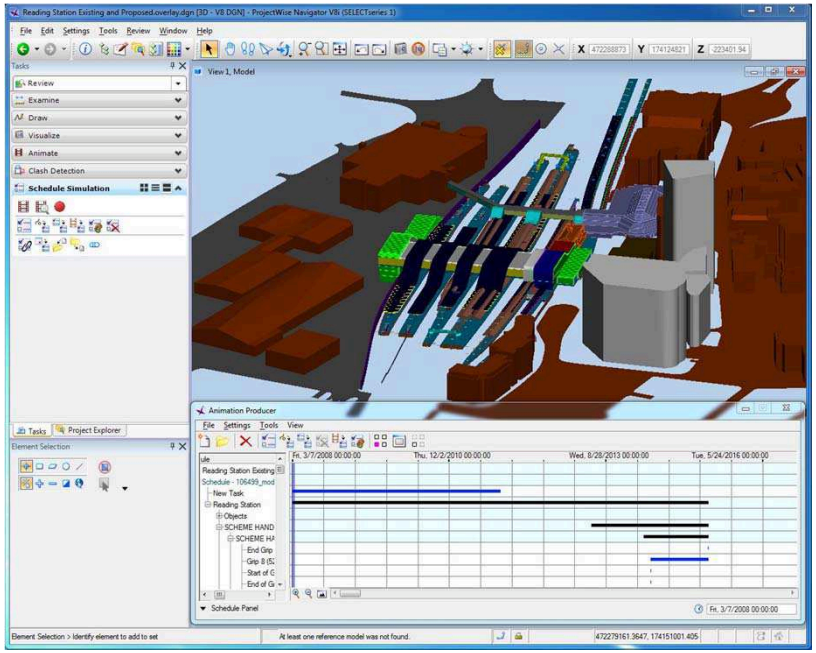
MicroStation V8*i* (SELECTseries 2)

- Schedule Simulation
  - Visualize project scheduling
  - Round trip data from scheduling software
  - Build schedules directly from in MicroStation
  - ProjectWise Schedule Simulation Visa Required



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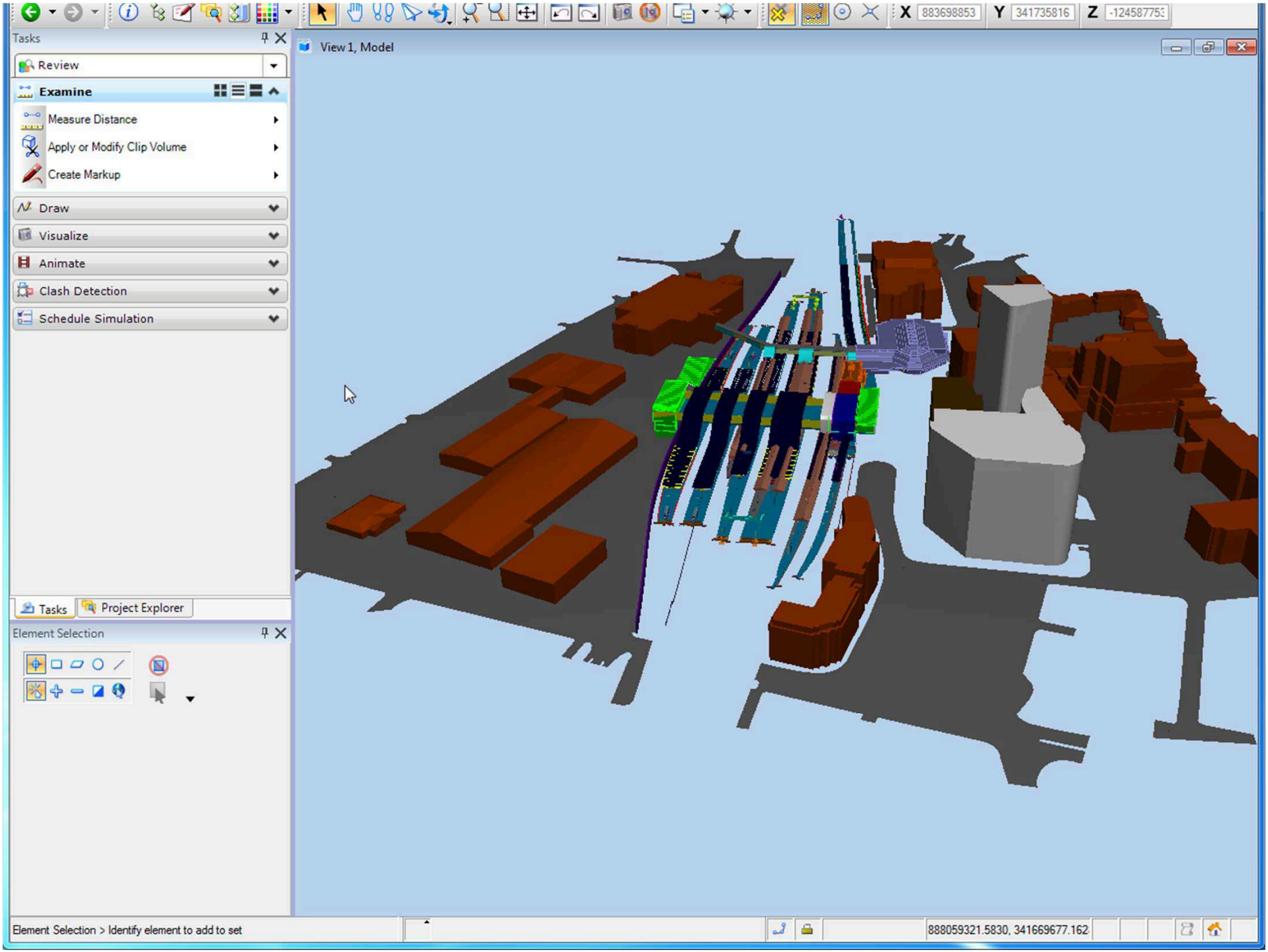
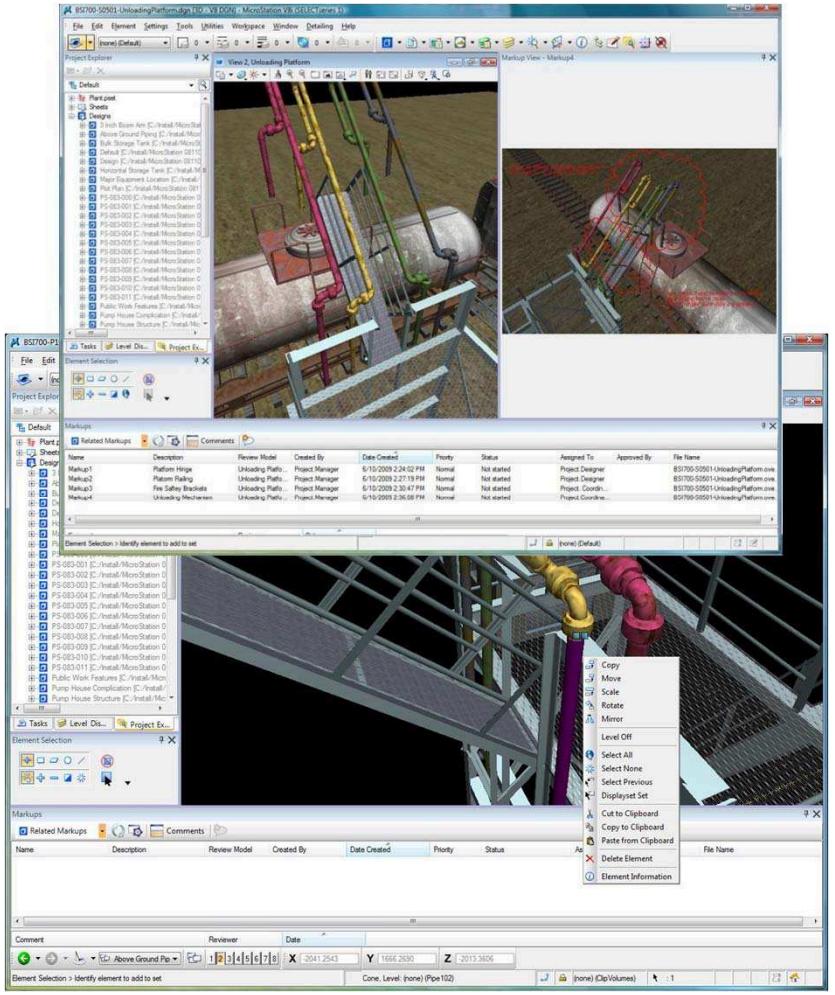

X 883698853
Y 341735816
Z -124587753
Tasks
Review
Examine
Measure Distance
Apply or Modify Clip Volume
Create Markup
Draw
Visualize
Animate
Clash Detection
Schedule Simulation
Tasks
Project Explorer
Element Selection
View 1, Model
Element Selection > Identify element to add to set
888059321.5830, 341669677.162

The Insightful Review Advantage

- Save Time
  - Faster review workflows
  - Automate comment tracking
  - Simplify review process
- Save Money
  - Reduce paper cost
  - Reduce review cycle time
- Improve Quality
  - Better managed markups
  - Maintain data integrity
  - Projects are better designed



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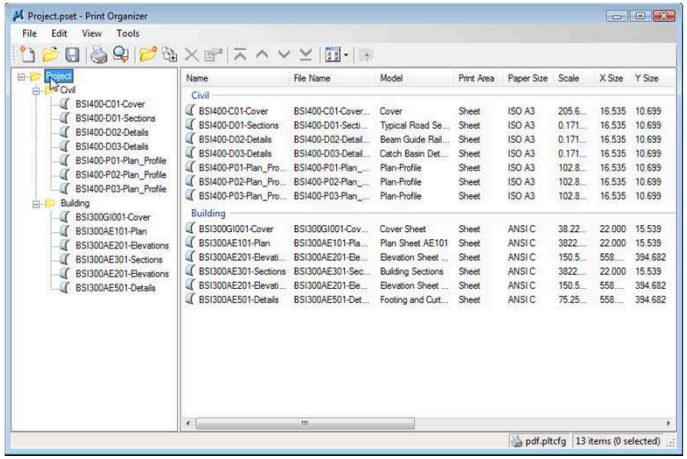
MicroStation V8*i* (SELECTseries 2)

Integrated Print Organizer

MicroStation V8*i* (SELECTseries 2)

- Integrated Print Organizer
  - Print Organizer Client dialog
  - Print Definitions
  - Print Styles
  - Batch Printing
  - Multi sheet, hierarchal PDF Support



- New in MicroStation V8*i* (SELECTseries 2)
  - More coming in (SELECT series 3)

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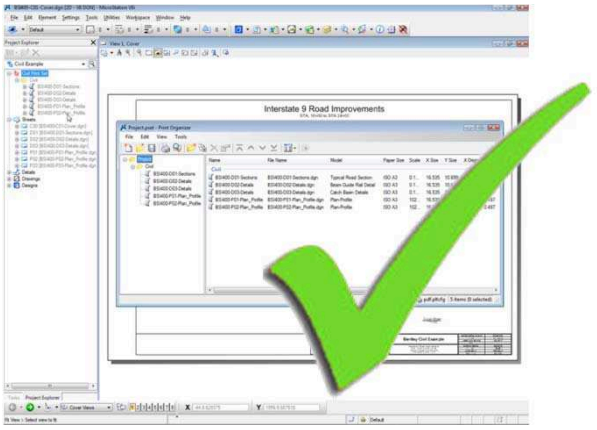
Why Integrate Print Organizer?

- Guarantee all published drawings match standards
- Assemble and plot data from multiple file formats
- Plot each file just once to many output formats
- Produce identical versions of paper and PDF
- Eliminate manual plot processes
- Automate plot setup and execution



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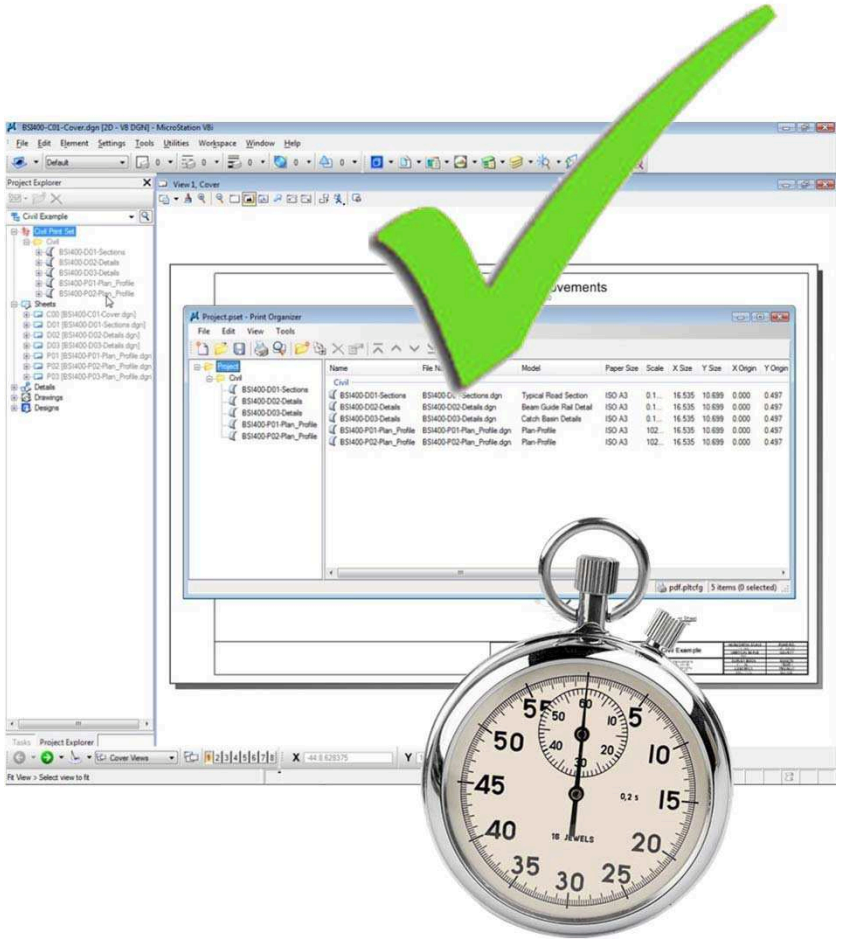
MicroStation V8*i* (SELECTseries 2)

- Print Definitions
  - Page Size, Scale, Orientation, More
- Print Styles
  - For Each Print Type
  - By Discipline, Use, Deliverable Type
- Batch Printing
  - Single or Multiple Formats



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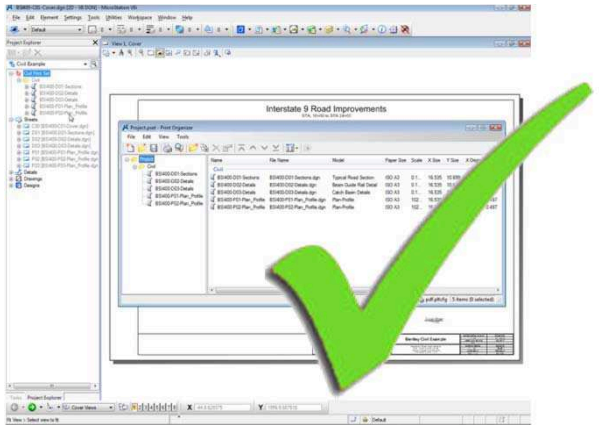
Integrated Advantages

- Save Time
  - Streamline Print Production
  - Simplify Printing Process
- Save Money
  - Produce Electronic Deliverables and Check Prints
  - Produce Consistent Results
- Improve Quality
  - Guarantee corporate and project standards compliance



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MicroStation V8*i* (SELECTseries 2)

Iterative Luxology Rendering

MicroStation V8*i* (SELECTseries 2)

- Iterative Luxology Rendering
  - High Performance Rendering Engine
  - Physically Correct Materials
  - Environmental Lighting
  - Global Illumination
  - Render Setups
  - Distributed Rendering
  - Camera Speed Control
  - Tone Mapping

- New in MicroStation V8*i* (SELECTseries 2)
  - Render Output Channels
  - User Interface Optimization
  - Animation improvements

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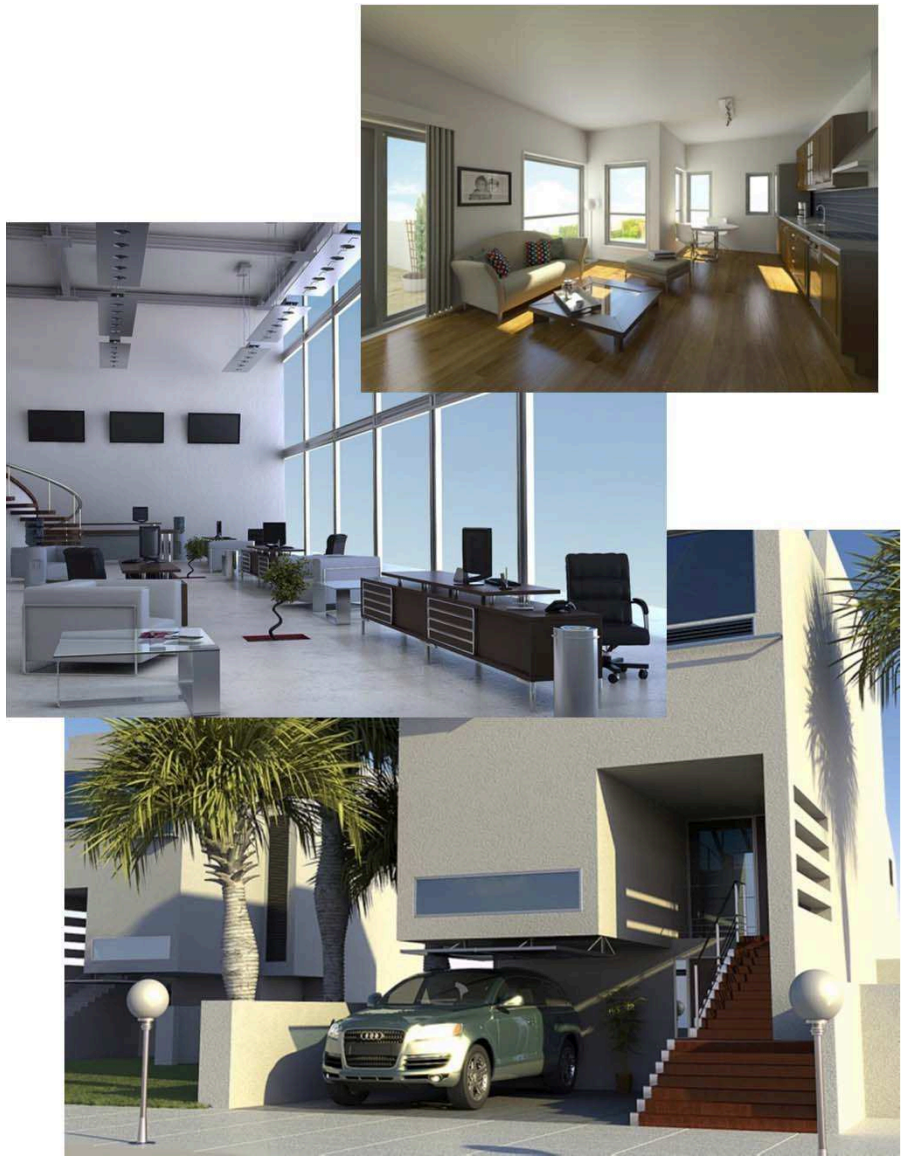
Why Luxology?

- Produce high quality images using pre-configured settings to better balance speed and quality
- Deliver photo-realistic interior and exterior views using lighting and textures that mirror project reality
- Improve stakeholder insight and secure buy-in
- Validate the fit and finish of a project
- Secure project funding for design alternatives



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Simplified Lighting

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TECHNOLOGIES
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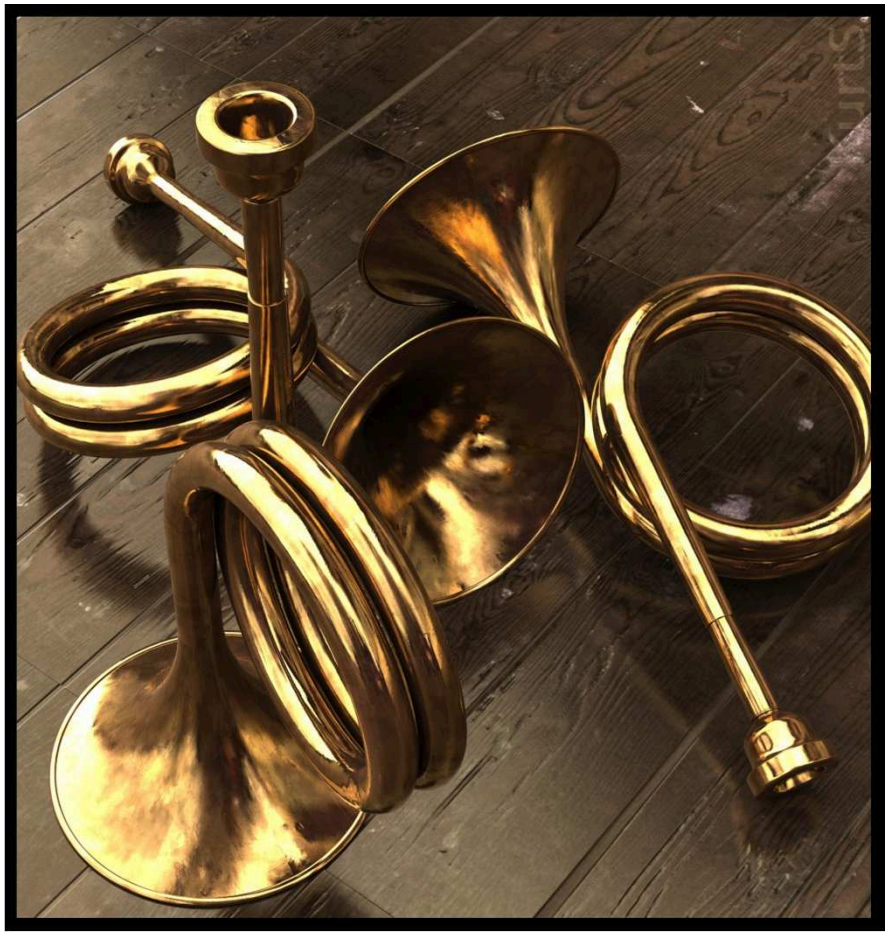
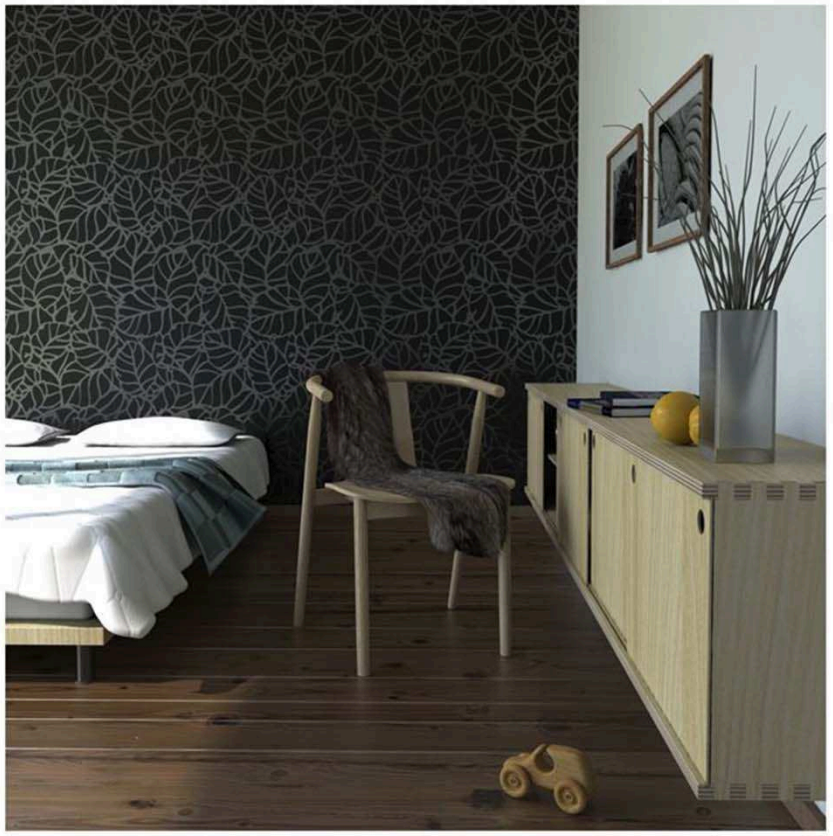
Realistic Materials





bedroom - modeled and rendered by KurtS

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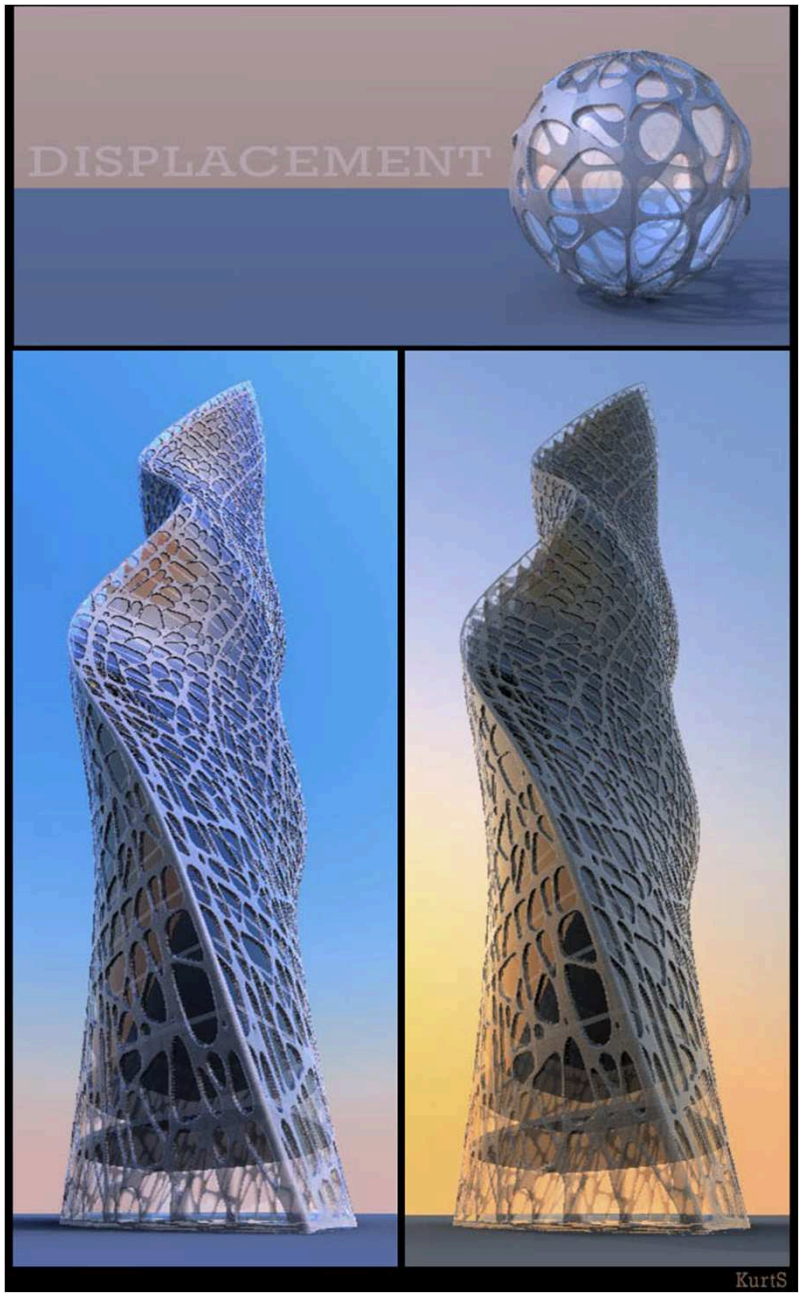
Realistic Materials



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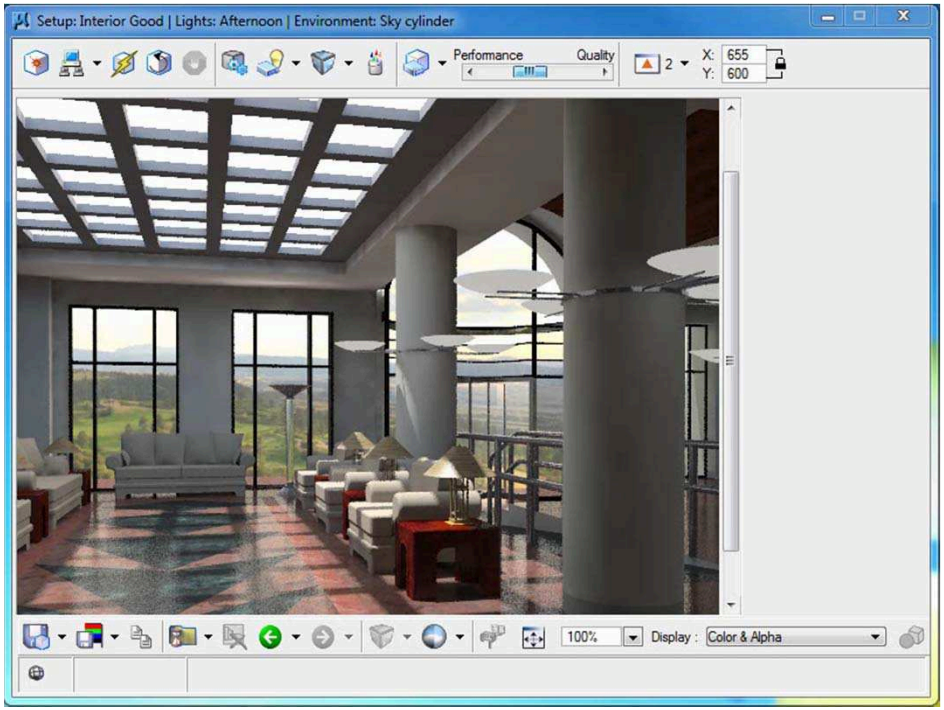
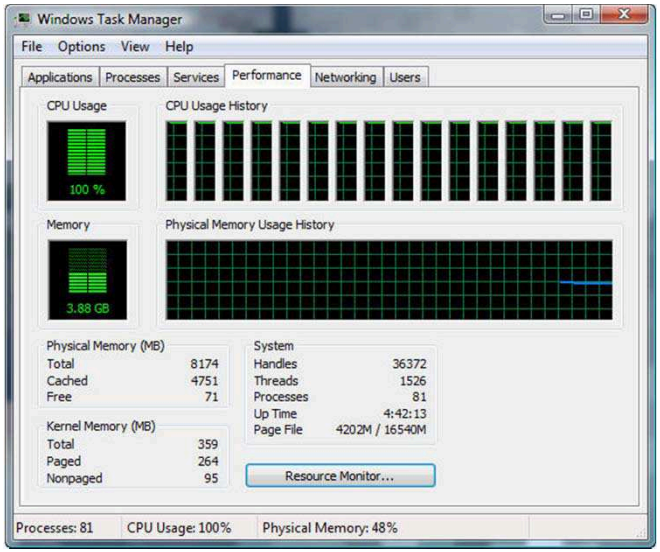
KurtS

Performance, Performance, Performance

- Native 64 Bit Engine
- Use up to 32 Cores
- Real Time Updates Onscreen





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Way out
Way out

MicroStation Visualization Community Gallery - MicroStation Visualization Community Gallery - M - Microsoft Internet Explorer p

http://communities.bentley.com/products/microstation/microstation_visualization/m/luxology-gallery/default.aspx?PageIndex=1&GalleryPostSort=Rating

Favorites | MicroStation Visualization Community Gallery - ...

Chris Bober (4) | Conversations (13) | Settings | Favorite Places | Sign out

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MicroStation Visualization

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MICROSTATION VISUALIZATION COMMUNITY GALLERY

Recent | Name | Downloads | Views | Comments | Rating

rendertest - comparison

Luxolamps - 1

bmw-speed.jpg

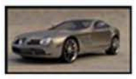
gold-silver-metallic.jpg

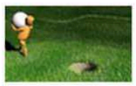
OnyxTree 4 Christmas

armchair3min31.jpg

Electric Guitar - HDR Lighting - 5 min

Fade2wireframe2 Nebula





OPTIONS

- Favorite this gallery
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TAGS

3d | 3d rendering | Architecture | BIM | car | caustics | civil | depth of field | displacement | dof | exterior | fur | glow | hdri | interior | kurts | luxology | luxology render | material | microstation | photorealistic | rendering | v8i | visualization | Volume Light

Local intranet | Protected Mode: Off

The Iterative Advantage

- Save Time
  - Near real-time rendering
  - 64-bit rendering engine
  - Create time for more design review iterations
- Improve Quality
  - Photo-realistic images
  - Better design
  - Higher Project Win-Rate
- Increase Profits
  - More Efficient Teams
  - Lower Operating Costs

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MicroStation V8*i* (SELECTseries 2)

Improved Deployments

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MicroStation V8*i* (SELECTseries 2)

- Improved Deployments
- New in MicroStation V8*i* (SELECTseries 2)
  - Update Installs
  - Bentley Application Compatibility
  - Citrix Ready Verification

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MicroStation V8*i* (SELECTseries 2)

- Less Disruptive Updates and Upgrades
  - Same Licensing as V8i, and V8i (SELECT series 1)
  - Same V8 DGN format
  - Same V8 workspace and standards support
- New Update and Upgrade Options
  - Incremental enhancements will be available as Updates
    - i.e. RealDWG, Luxology, Others
  - Major releases will be delivered as complete Installs or Updates
    - (SELECTseries 1), (SELECTseries 2)..
  - Compatibility across applications will be maintained where possible

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MicroStation V8*i* (SELECTseries 2)

- Virtualized Deployment
  - Supported in specific virtualized environments (like Citrix XenApp) for deployment
  - Provides IT organizations and administrators with more control over software deployments in their organizations
  - Users will benefit from standardized configurations and less disruptive upgrades
- MicroStation V8*i* (SELECTseries 2) is
  - Specific to Application Virtualization with Citrix XenApp
  - More specifically:

    Citrix XenApp 5.0 64bit on Microsoft Server 2008
  - Additional certifications under consideration

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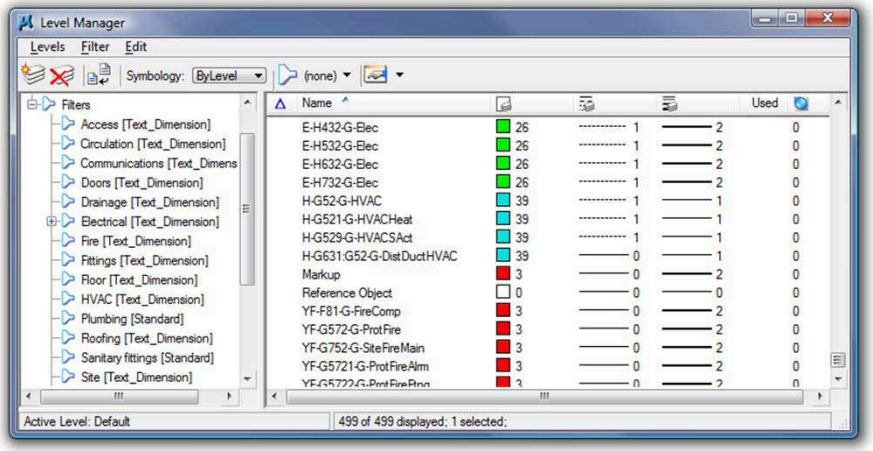
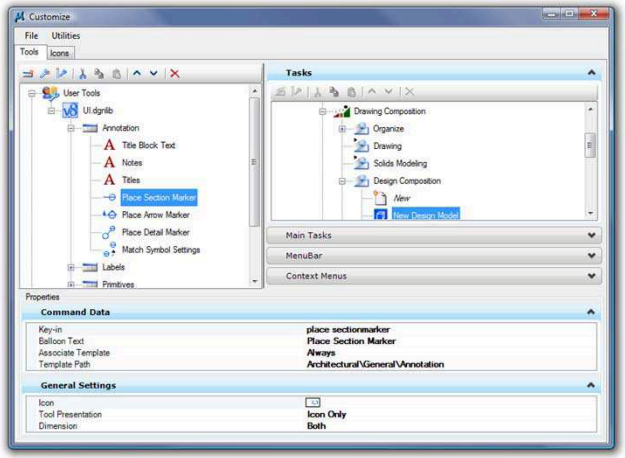
MicroStation V8*i* What's *NOT* New

Feature
Same V8DGN Format

Advantage
Enables the team to transition seamlessly from previous versions of software to V8i

Benefit
Eliminate wasted time
Improve upgrade experience
Maintain high quality data





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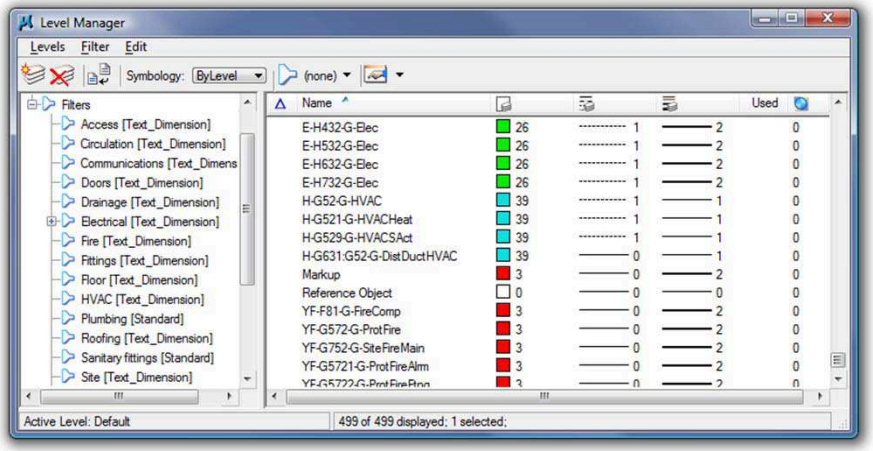
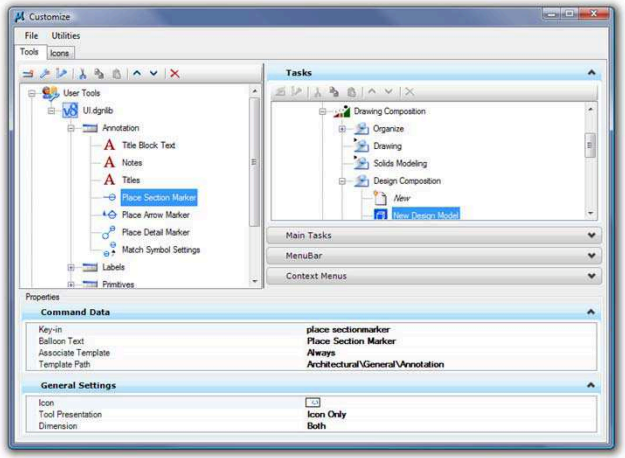
MicroStation V8*i* What's *NOT* New

Feature
Supports current standards

Advantage
Streamlines the process of moving projects from older versions of software to V8i

Benefit
Eliminate wasted time
Reduce risk to project schedule
Maintain high quality data





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Discover the Value in MicroStation V8*i* (SELECTseries 2)

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