



OpenBridge Plans Production Tools

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Bentley[®]
Advancing Infrastructure

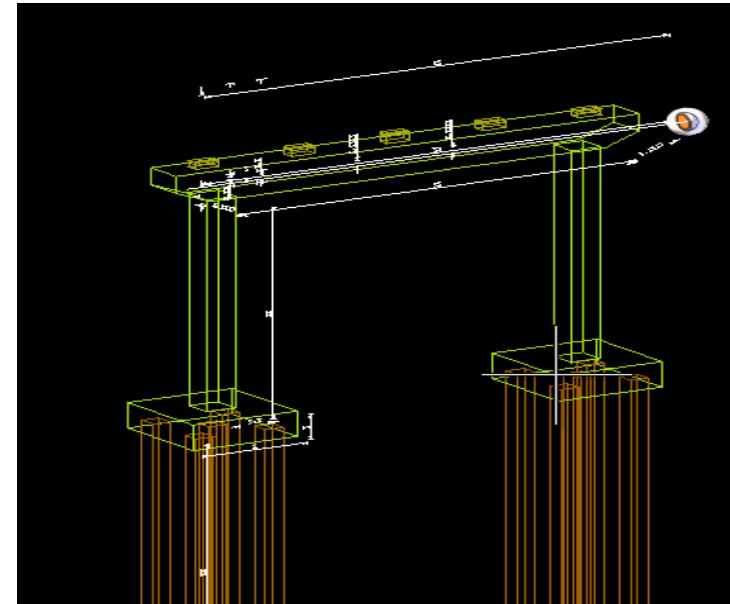
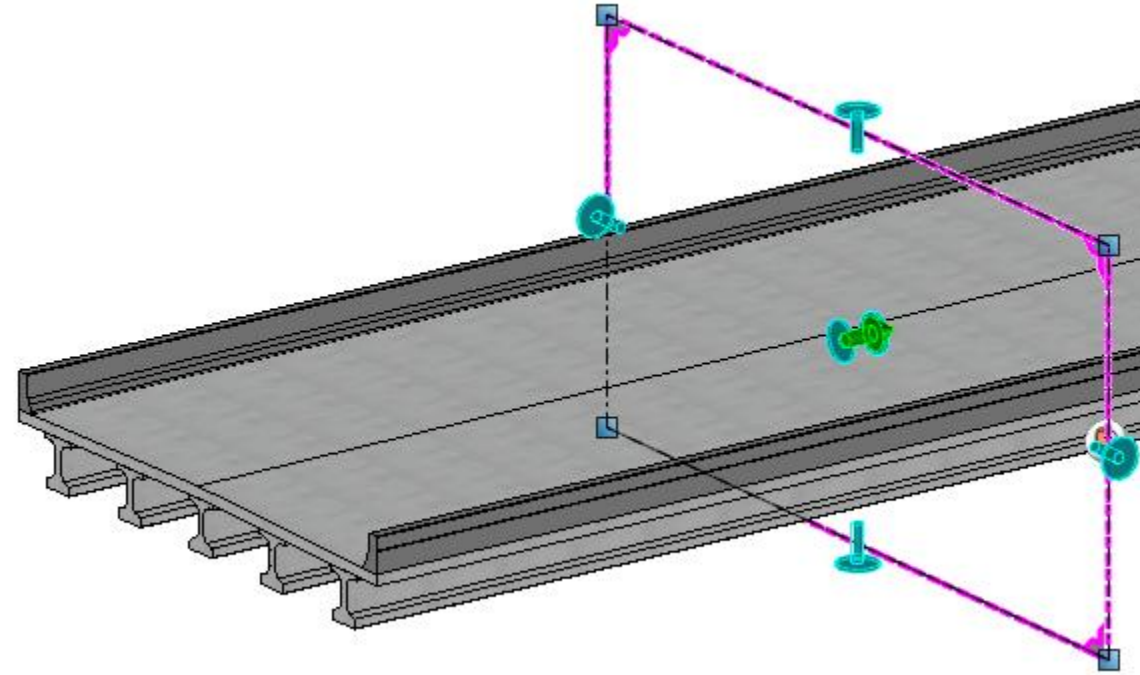
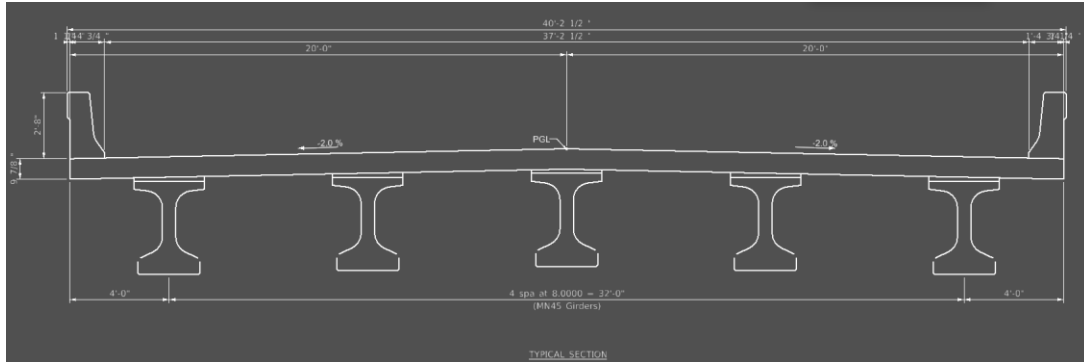
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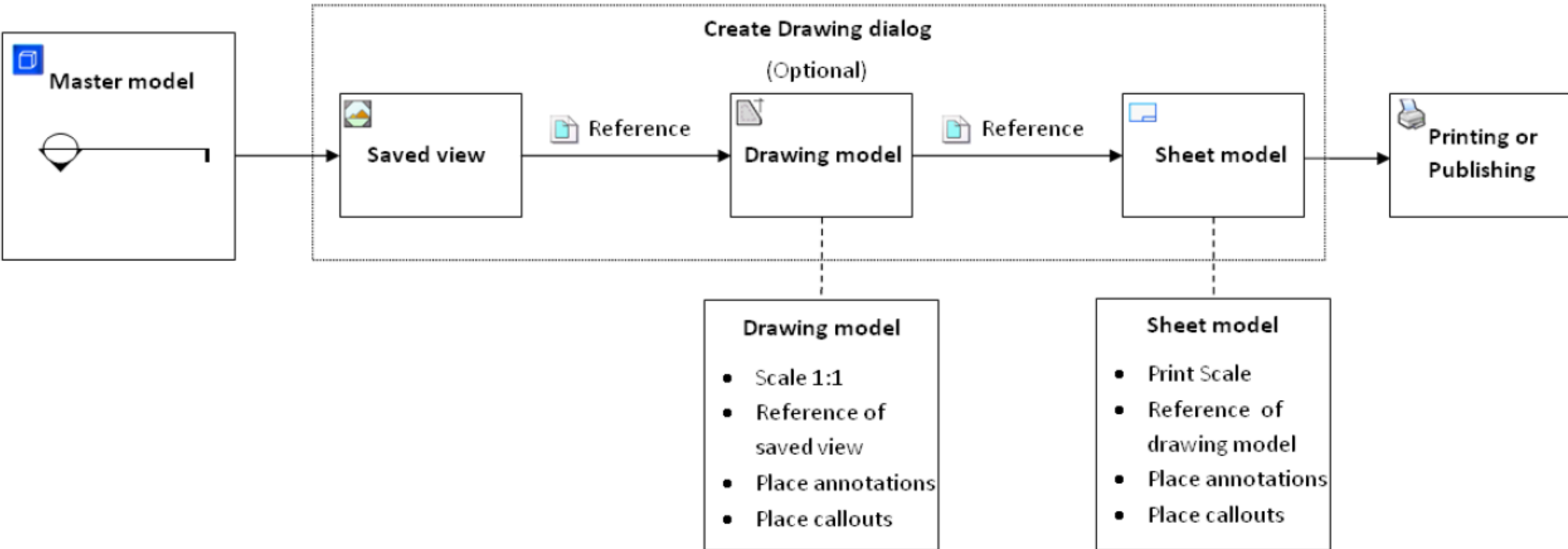
Plan and Elevation Views from 3D Model

Dynamic Views

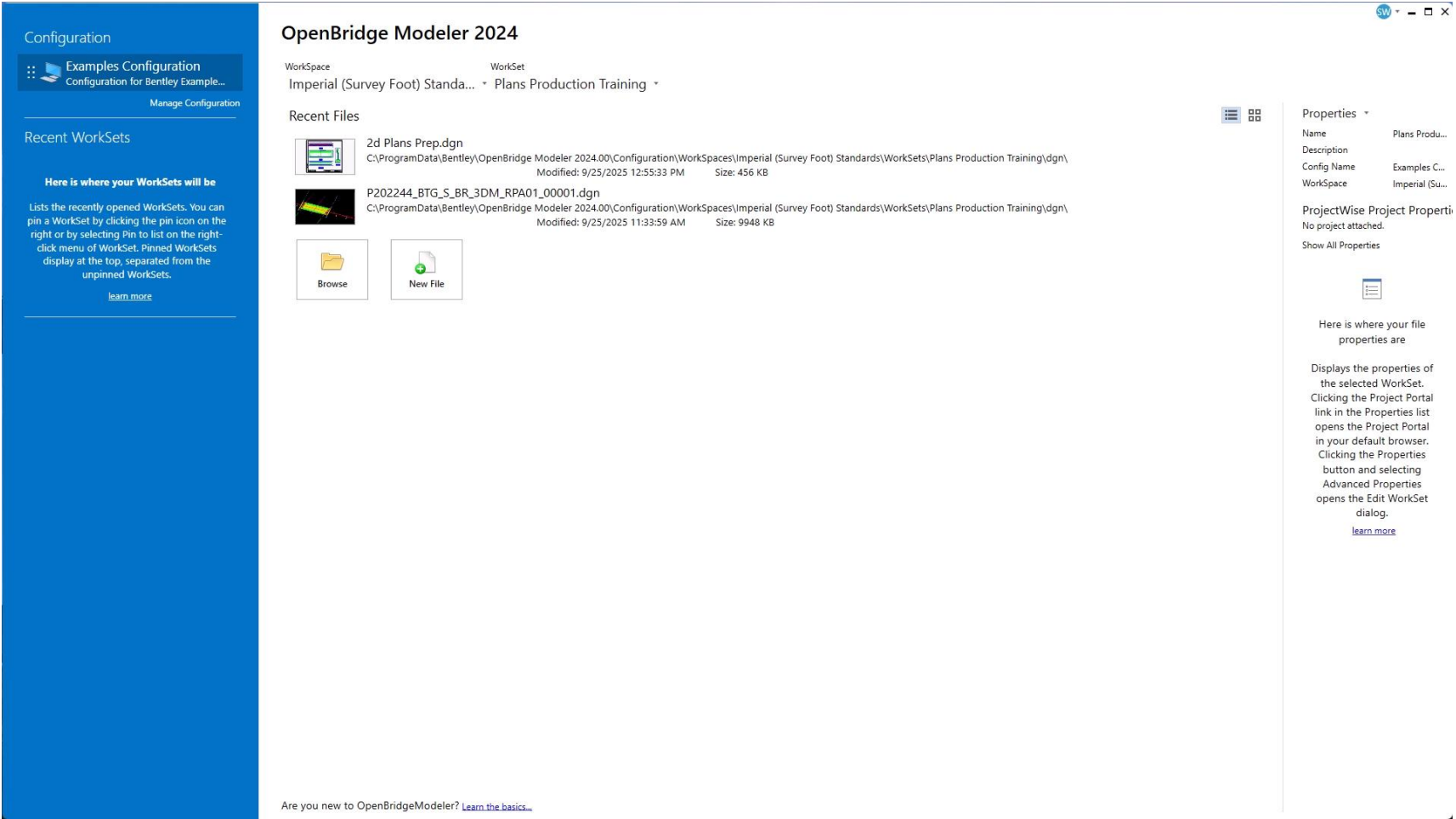
- Quick section cut using Callout tools
- Sections, plan, elevation and detail callouts
- Links between model and 2D views
- Creates drawing and/or sheet models



Dynamic View Workflow



3D Plan Elevation Getting Started

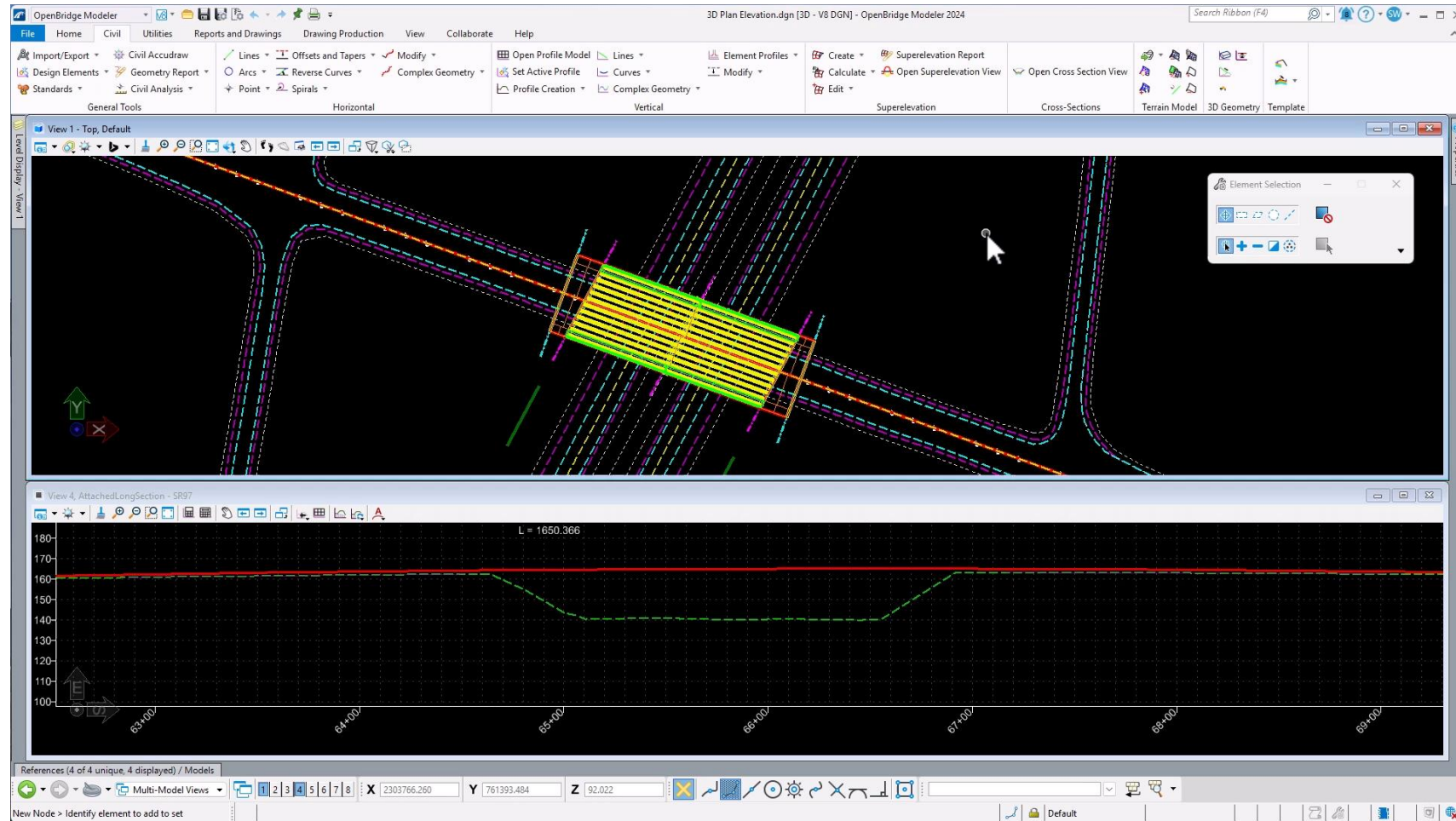


Plan View

Depends on what's configured in the workspace:

- Place Named Boundary > Civil Plan
 - Best if multiple plan sheets needed
- Place Named Boundary > By Two Points
- Create Saved View > By Two Points

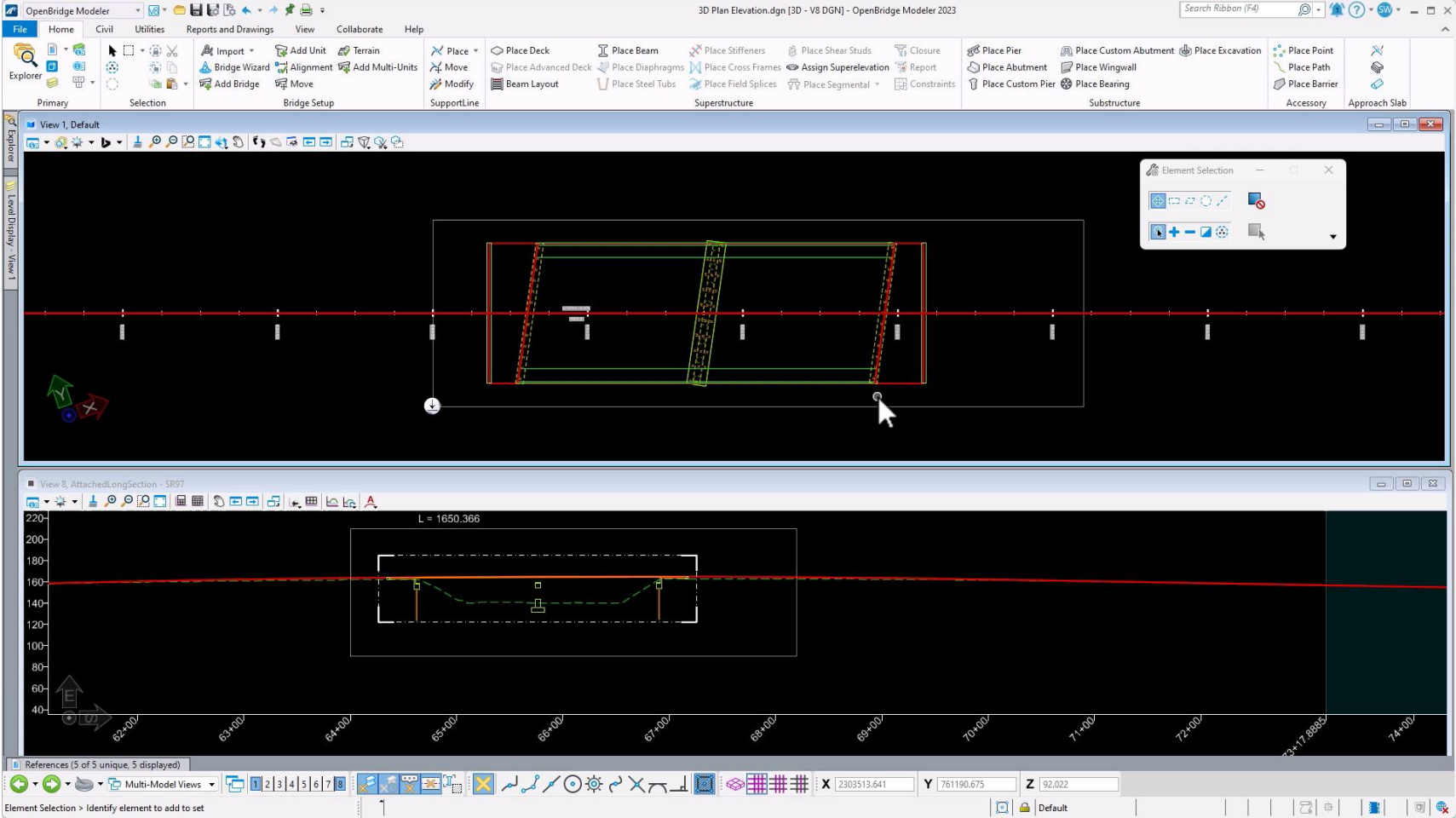
Plan and Elevation View – Place Named Boundary



Elevation View (Profile View)

- Differs from agency to agency
- Straight Bridges
 - Section Callout along CL
 - Section Callout parallel to structure
- Curved or Straight Bridges with/without Profile Grid
 - Profile View 3D Section Cut

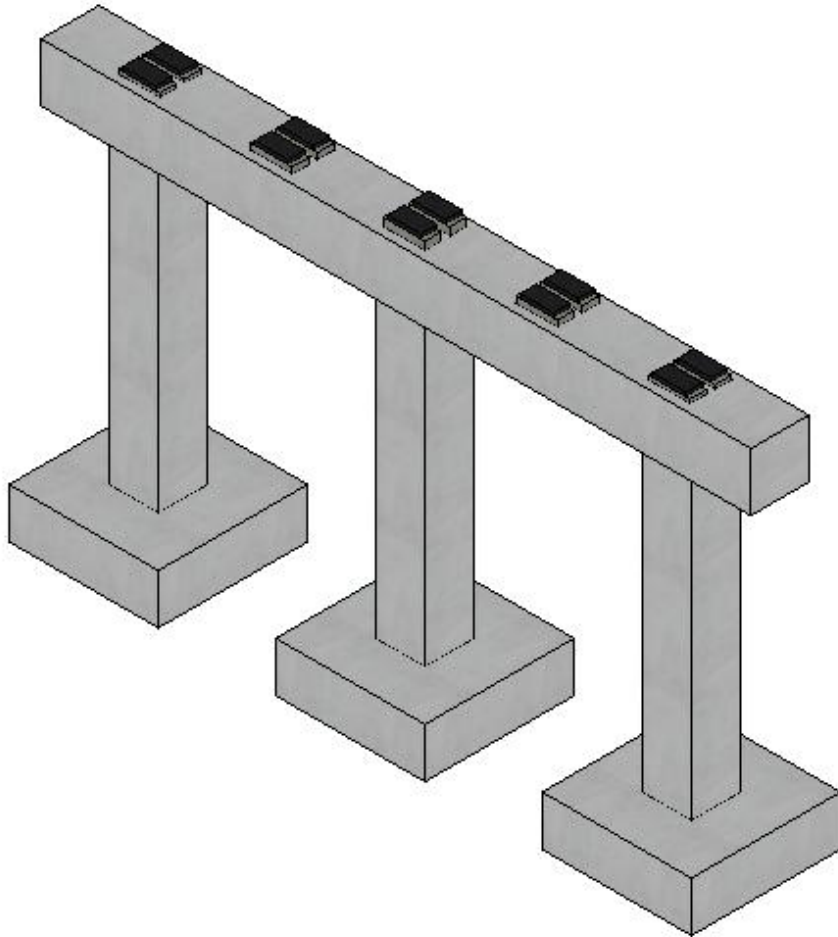
Elevation View – Section Callout along CL





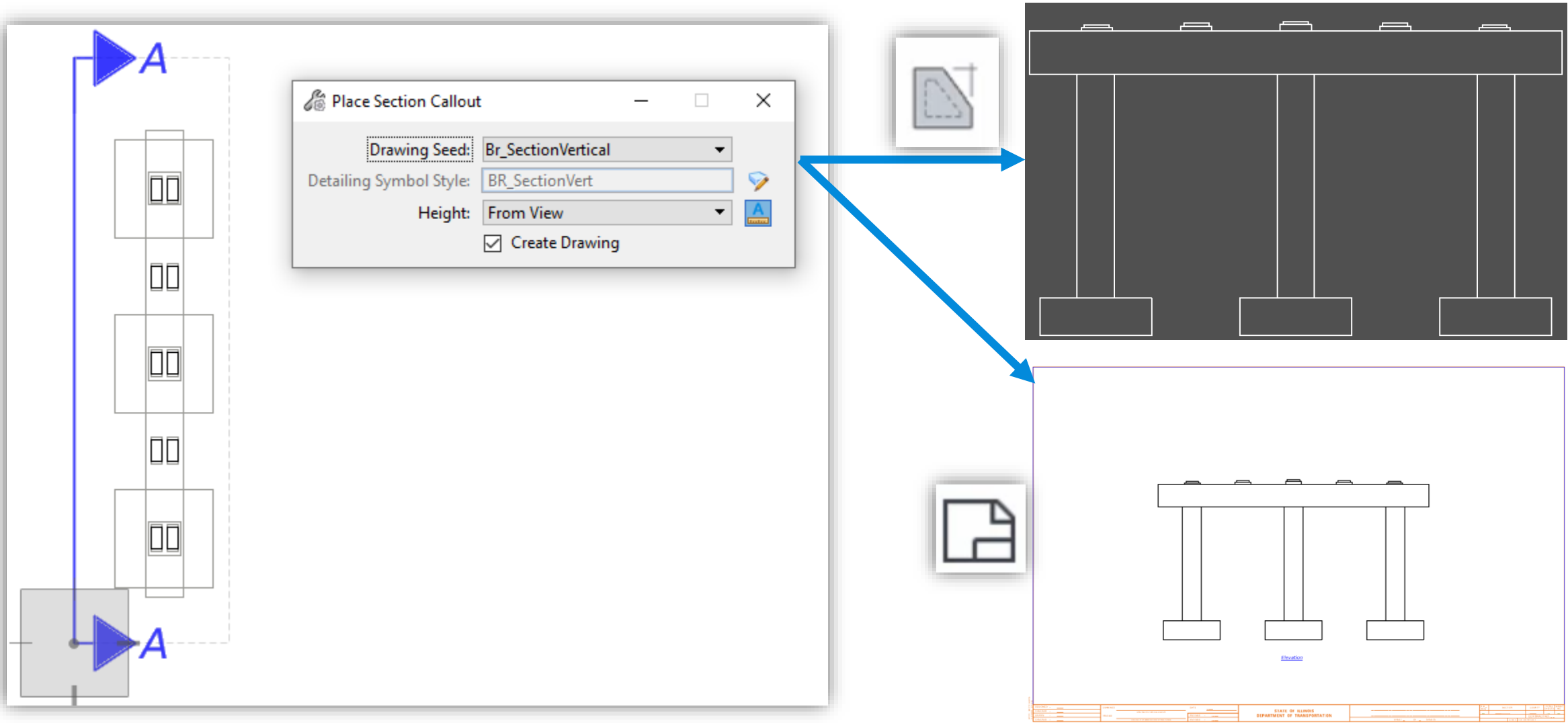
Pier Drawings from 3D BIM Model

Dynamic View Workflow – BIM Model

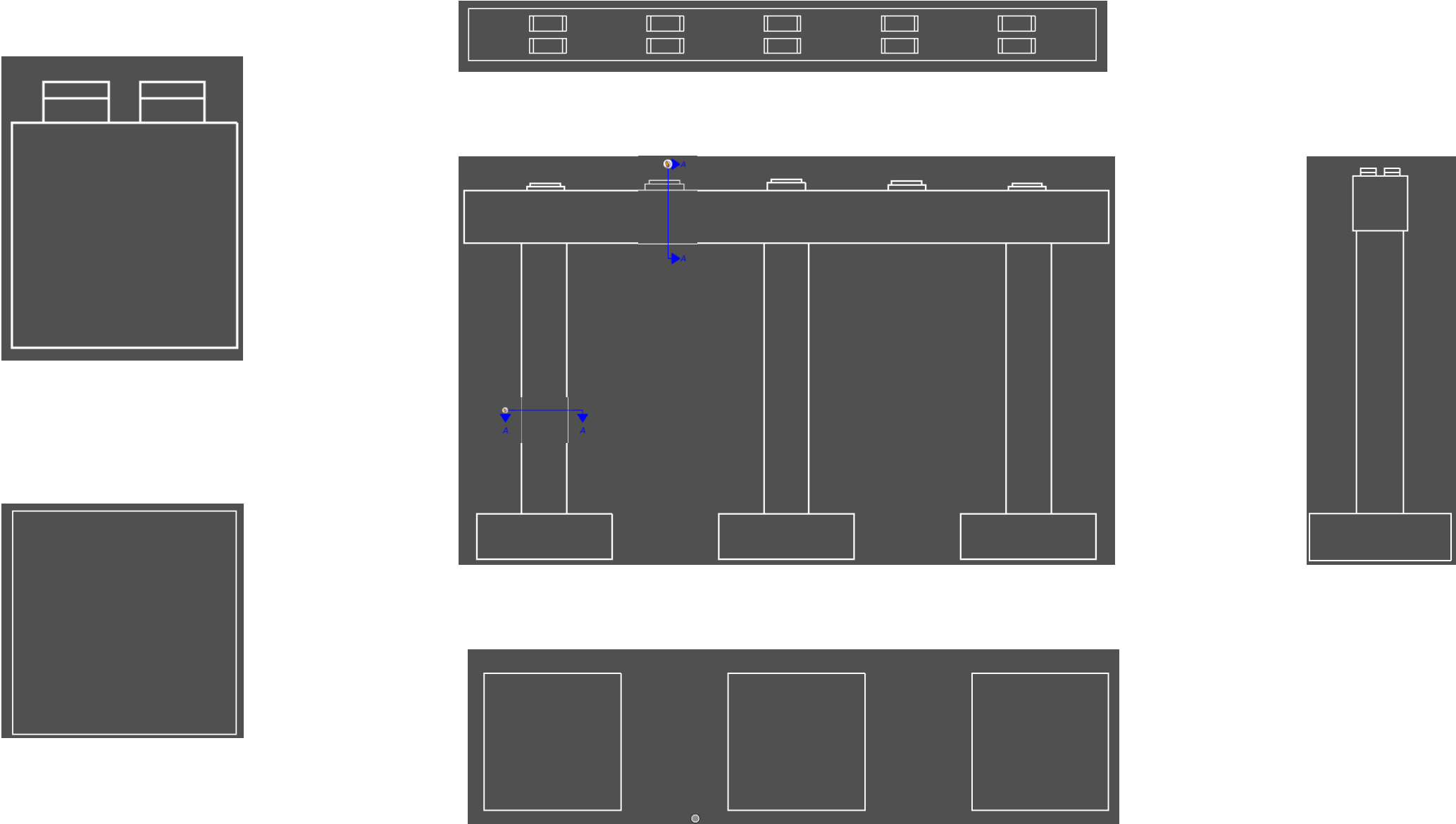


- Create New 3D Model
- Reference Bridge Model
- Turn levels on/off
- Use Section Callout from Top view to create elevation view

Dynamic View Workflow – BIM Model



Dynamic View Workflow – BIM Model



Pier Sheet from Bridge Model

Configuration

Examples Configuration

Configuration for Bentley Example...

Manage Configuration

Recent WorkSets

Imperial (Survey Foot) Standards

Plans Production Training

Here is where your WorkSets will be

Lists the recently opened WorkSets. You can pin a WorkSet by clicking the pin icon on the right or by selecting Pin to list on the right-click menu of WorkSet. Pinned WorkSets display at the top, separated from the unpinned WorkSets.

[learn more](#)

OpenBridge Modeler 2024

Workspace

Imperial (Survey Foot) Standa...

WorkSet

Plans Production Training

Recent Files

3D Plan Elevation.dgn
C:\ProgramData\Bentley\OpenBridge Modeler 2024.00\Configuration\WorkSpaces\Imperial (Survey Foot) Standards\WorkSets\Plans Production Training\dgn\
Modified: 9/25/2025 2:58:42 PM Size: 315 KB

2d Plans Prep.dgn
C:\ProgramData\Bentley\OpenBridge Modeler 2024.00\Configuration\WorkSpaces\Imperial (Survey Foot) Standards\WorkSets\Plans Production Training\dgn\
Modified: 9/25/2025 12:55:33 PM Size: 456 KB

P202244_BTG_S_BR_3DM_RPA01_00001.dgn
C:\ProgramData\Bentley\OpenBridge Modeler 2024.00\Configuration\WorkSpaces\Imperial (Survey Foot) Standards\WorkSets\Plans Production Training\dgn\
Modified: 9/25/2025 11:33:59 AM Size: 9948 KB

Browse

New File

Properties

Name

Plans Produ...

Description

Config Name

Examples C...

WorkSpace

Imperial (Su...

ProjectWise Project Properti

No project attached.

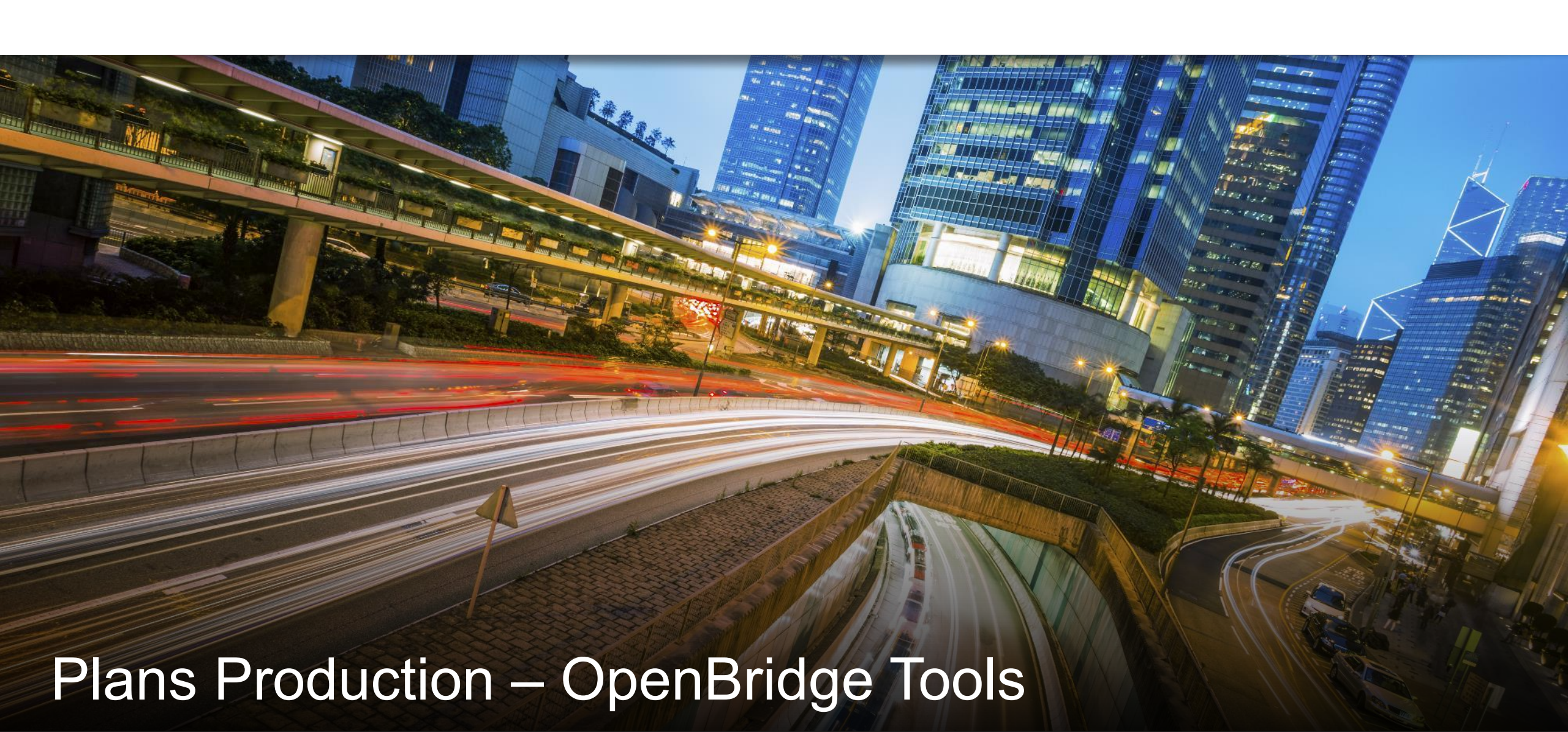
Show All Properties

Here is where your file properties are

Displays the properties of the selected WorkSet. Clicking the Project Portal link in the Properties list opens the Project Portal in your default browser. Clicking the Properties button and selecting Advanced Properties opens the Edit WorkSet dialog.

[learn more](#)

Are you new to OpenBridgeModeler? [Learn the basics...](#)



Plans Production – OpenBridge Tools

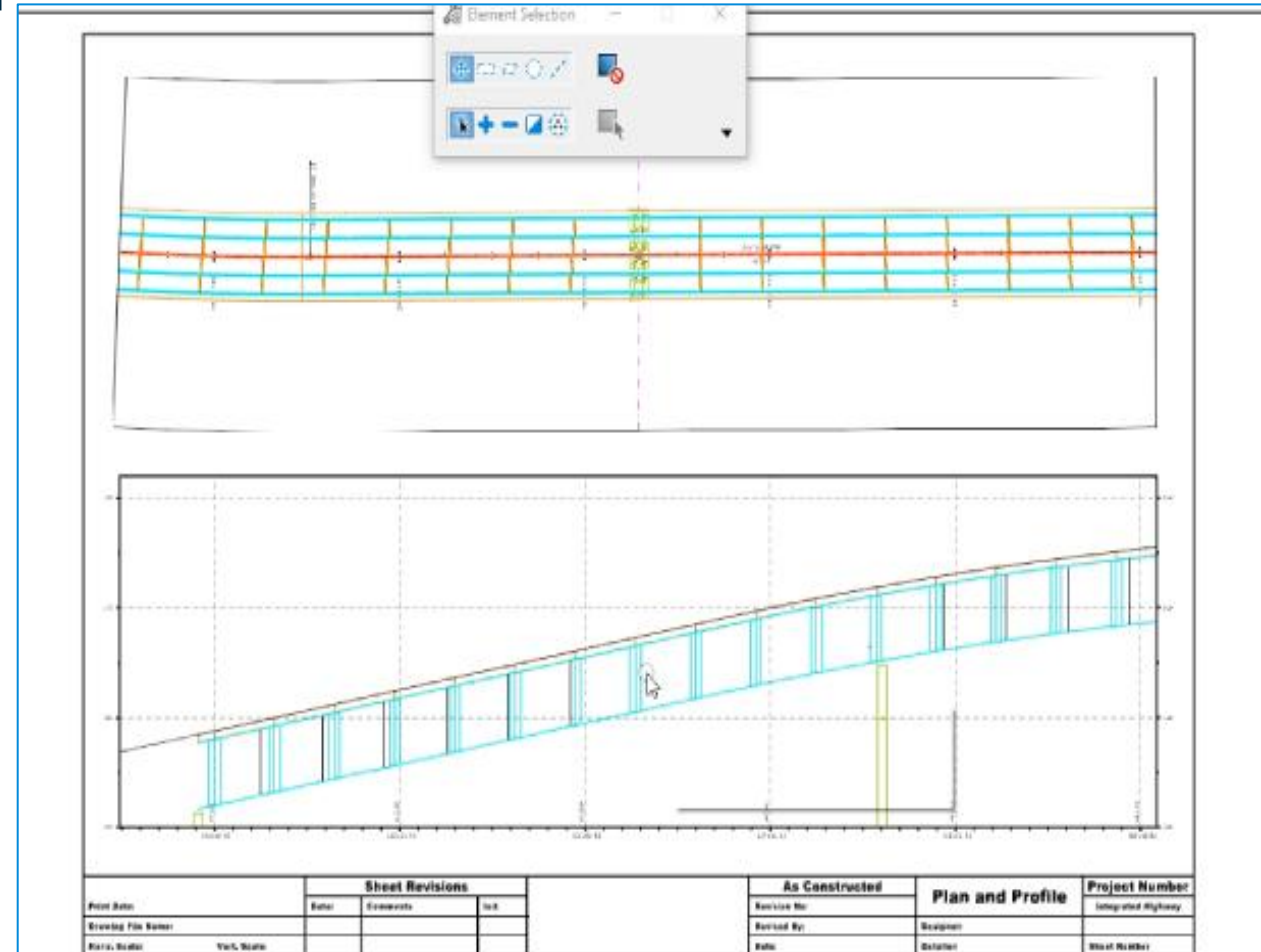
Plans Production



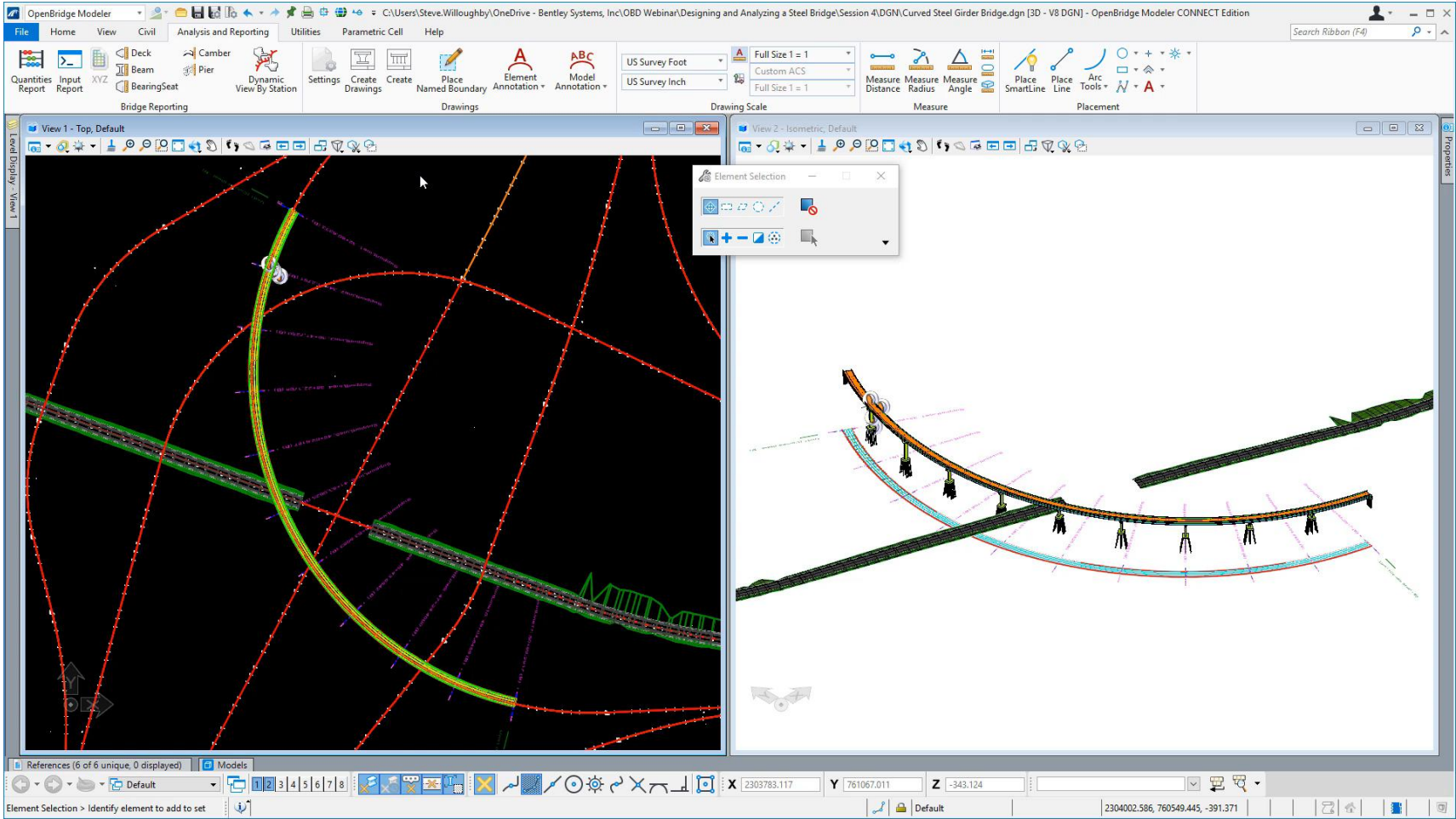
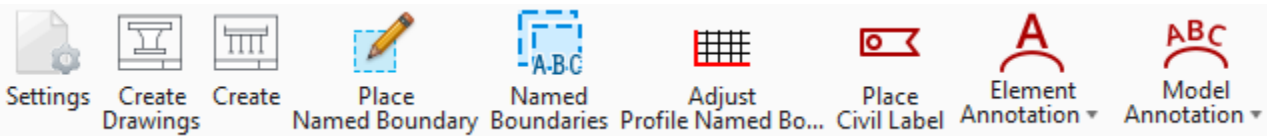
- Efficient workflows for 2D view generation from 3D models
- Model annotation by Civil tools
- Allows for rapid creation of section, plan and elevation views
- Dynamically updates 2D views based on 3D Model updates

US Survey Foot		1"=100'
US Survey Inch		Custom ACS
		1"=100'

Drawing Scale

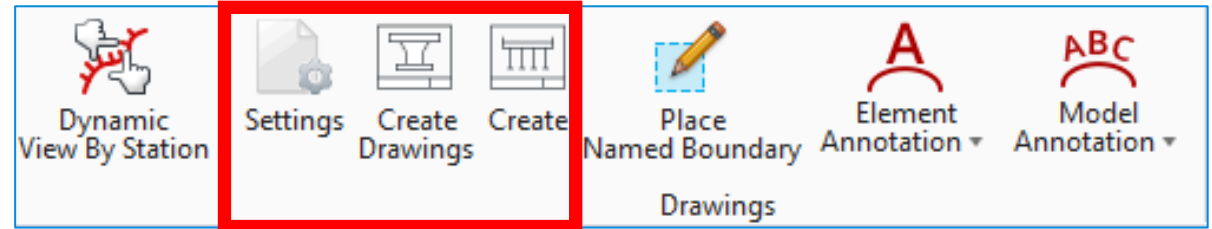


Dynamic View by Station



Drawing Generation

- Predetermined “cuts” for bridge typical section and substructure views
- User-defined settings for dimensioning styles
- Pre-defined clipping for Top, Right and Bottom views
- Creates drawings and sheet models



Create Drawing

Name: Section Pier

Drawing Seed: OBM_Section_English

View Type: Section

Discipline: General

Purpose: Section View

☒ Create Drawing Model

Seed Model: OpenBridgeModeler.DrawingSeedImperial.c

Filename: (Active File)

Visible Edges: Dynamic

☒ Create Sheet Model

Seed Model: OpenBridgeModeler.DrawingSeedImperial.c

Filename: (Active File)

Sheets: (New)

3/8" = 1'-0"

Drawing Boundary: (New)

Detail Scale: 3/8" = 1'-0"

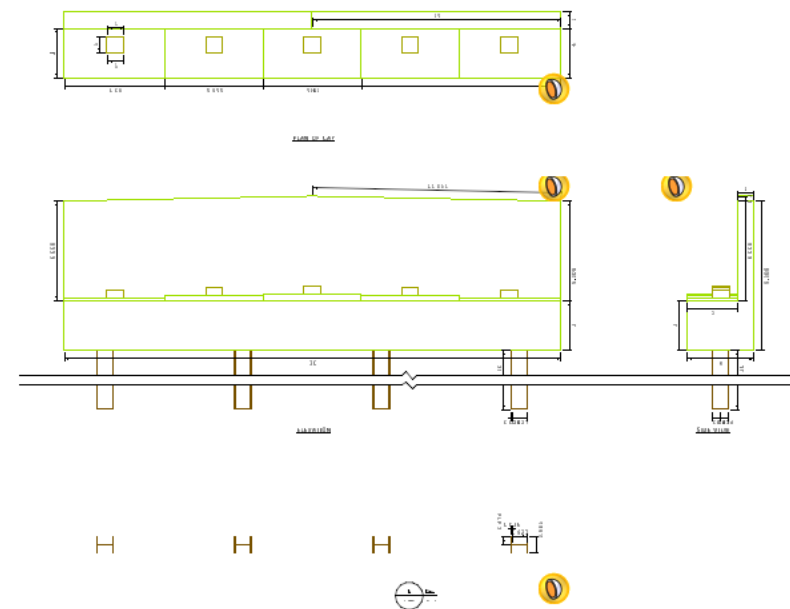
☐ Add To Sheet Index

☐ Make Sheet Coincident

☐ Replicate Drawing in Sheet File

☒ Open Model

OK Cancel



Print Date:	Sheet Revisions			As Constructed		Project Number
	Date	Comments	Init.	Revision No:	Designer	
Drawing File Name:				Revised By:	Detailer	Sheet Number
Horiz. Scale:	Vert. Scale:			Date:		

Settings

Drawings: Dynamic View Settings

General

☒ Auto Dimensions

☒ Clip

☐ Auto Fit

Hidden Style Name: Forward Hidden Edges

Unit Dependent Data Set

Unit System: English

Dimension Style Name: OBM_DimUS

Dual Dimension Style Name: OBM_DimSecUS

Title Text Style Name: OBM_Title_US

Drawing Seed Model: OBM_Section_English

Pier Reference Copies

☒ Top

☒ Right

☒ Bottom

☐ Left

☐ Back

☒ Elevation

Auto Dimensions

Offset ("): 0.500

Style: Ignore Duplicate

☒ Parallel Plane

☒ Associated Points

☒ Project Sloped Dims

☒ Unique By Type

Levels

Clip

Cut: By Fixed Length

Length ("): 3.000

Cut Gap: By Fixed Length

Length ("): 1.000

☒ Columns

☒ Piles / Drilled Shafts

OK Cancel

- Auto Dimension
 - Specify your dimension styles
 - Ignore Duplicate
 - Parallel Plane
- Clip
 - By Percent or Fixed Distance
 - Columns
 - Piles/Drilled Shafts
 - Only Applies to the Sheet Model

Settings – Pier Reference Copies

Drawings: Dynamic View Settings

General

☒ Auto Dimensions

☒ Clip

☐ Auto Fit

Hidden Style Name: Forward Hidden Edges

Unit Dependent Data Set

Unit System: English

Dimension Style Name: OBM_DimUS

Dual Dimension Style Name: OBM_DimSecUS

Title Text Style Name: OBM_Title_US

Drawing Seed Model: OBM_Section_English

Pier Reference Copies

☒ Top

☒ Right

☒ Bottom

☐ Left

☐ Back

☒ Elevation

Auto Dimensions

Offset ("): 0.500

Style: Ignore Duplicate

☒ Parallel Plane

☒ Project Sloped Dims

☒ Associated Points

☒ Unique By Type

Levels

Clip

Cut: By Fixed Length

Length ("): 3.000

Cut Gap: By Fixed Length

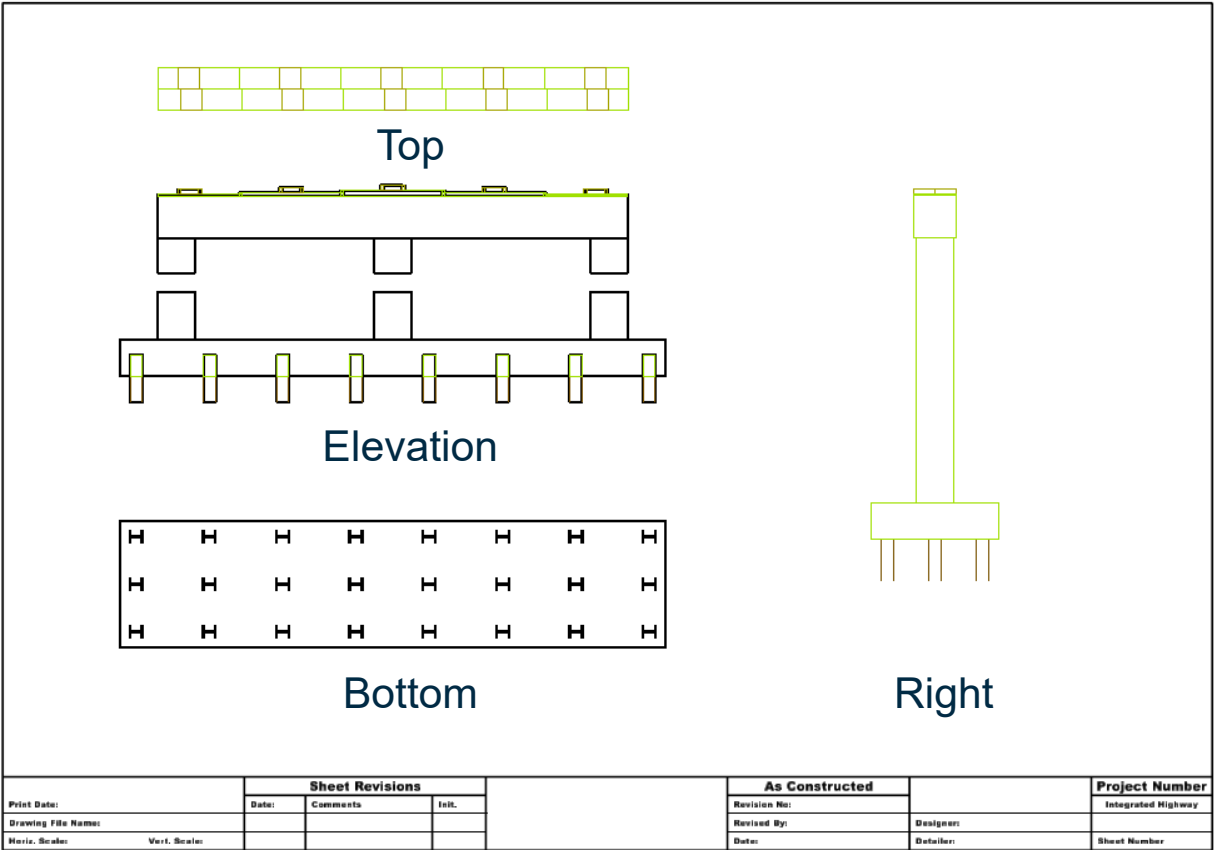
Length ("): 1.000

☒ Columns

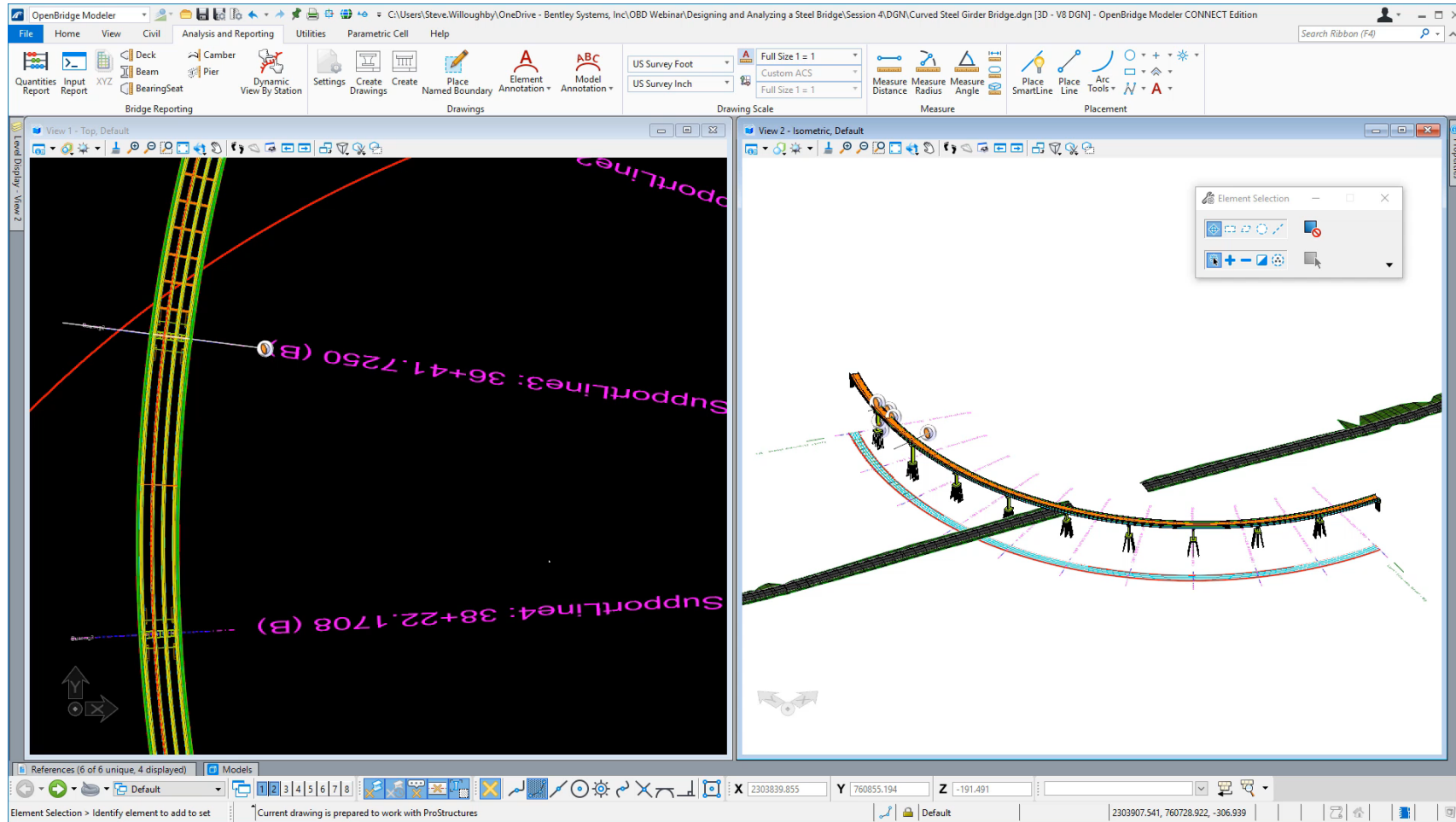
☒ Piles / Drilled Shafts

OK

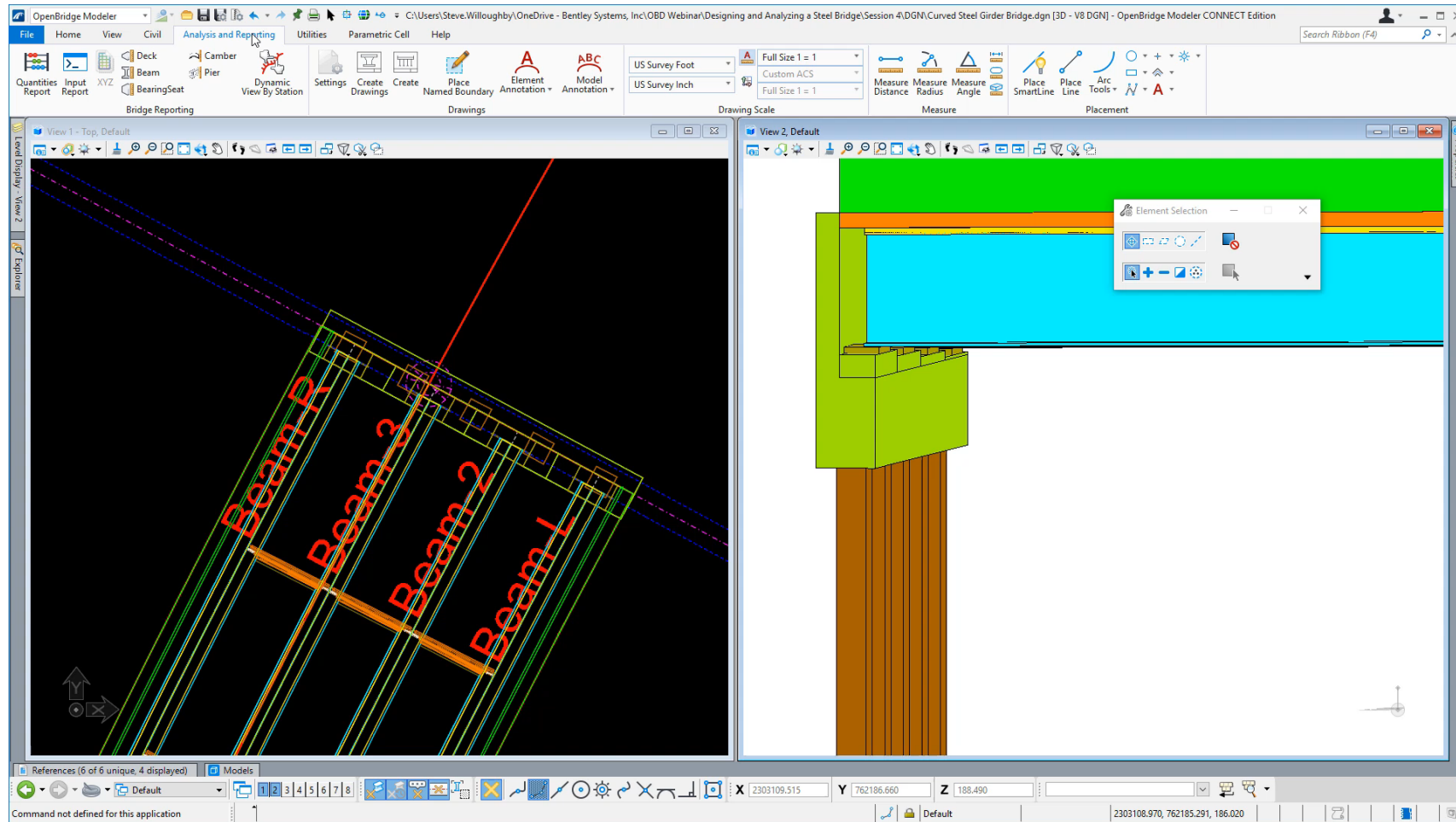
Cancel



Create Drawing Tools – Substructure and Superstructure



Create Drawing Tools - Abutment





Thank You!