New Features and Enhancements

Autodesk Revit 2020

Connect

- ✓ PDF Into Revit
- ✓ Publish Cloud Model on Revit Home
- ✓ Cloud Models for Revit Update
- ✓ Support for Sketchup 2018 Import and Link
- ✓ Revit Extension for Fabrication Exports

Create

- ✓ Elliptical Walls
- ✓ Improved Rebar Copy & Move Logic
- ✓ Multi Rebar Annotation to Concrete Faces
- ✓ Multi Rebar Annotation for Free Form Rebar
- ✓ Rebar in Model-in-place Stairs
- ✓ Steel Connections Propagation
- ✓ Steel Connections Grouping
- ✓ Tags & Dimensions of Steel Elements
- ✓ Electrical Homerun Wiring Improvements

Optimize

- ✓ Path of Travel
- ✓ Improved OR in View Filters
- ✓ Material Appearance Improvement
- ✓ Material User Interface Improvements
- ✓ Image and PDF improvements
- ✓ Tag, Schedule and View Filter for Elevation
- ✓ Track and Edit Scope Box Parameter in View List
- ✓ Copy and Paste Legends Across Sheets
- ✓ Create Parts from Imported Geometry
- ✓ InfoCenter Reduction
- ✓ Dynamo 2.1 Ships with 2020
- ✓ Steel Connections for Dynamo
- ✓ Enhanced Performance for Detailed Steel Models
- ✓ Additional Parameters for Steel Components
- ✓ Electrical panel feed through lugs connection
- ✓ Change Service Improvements

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Connect

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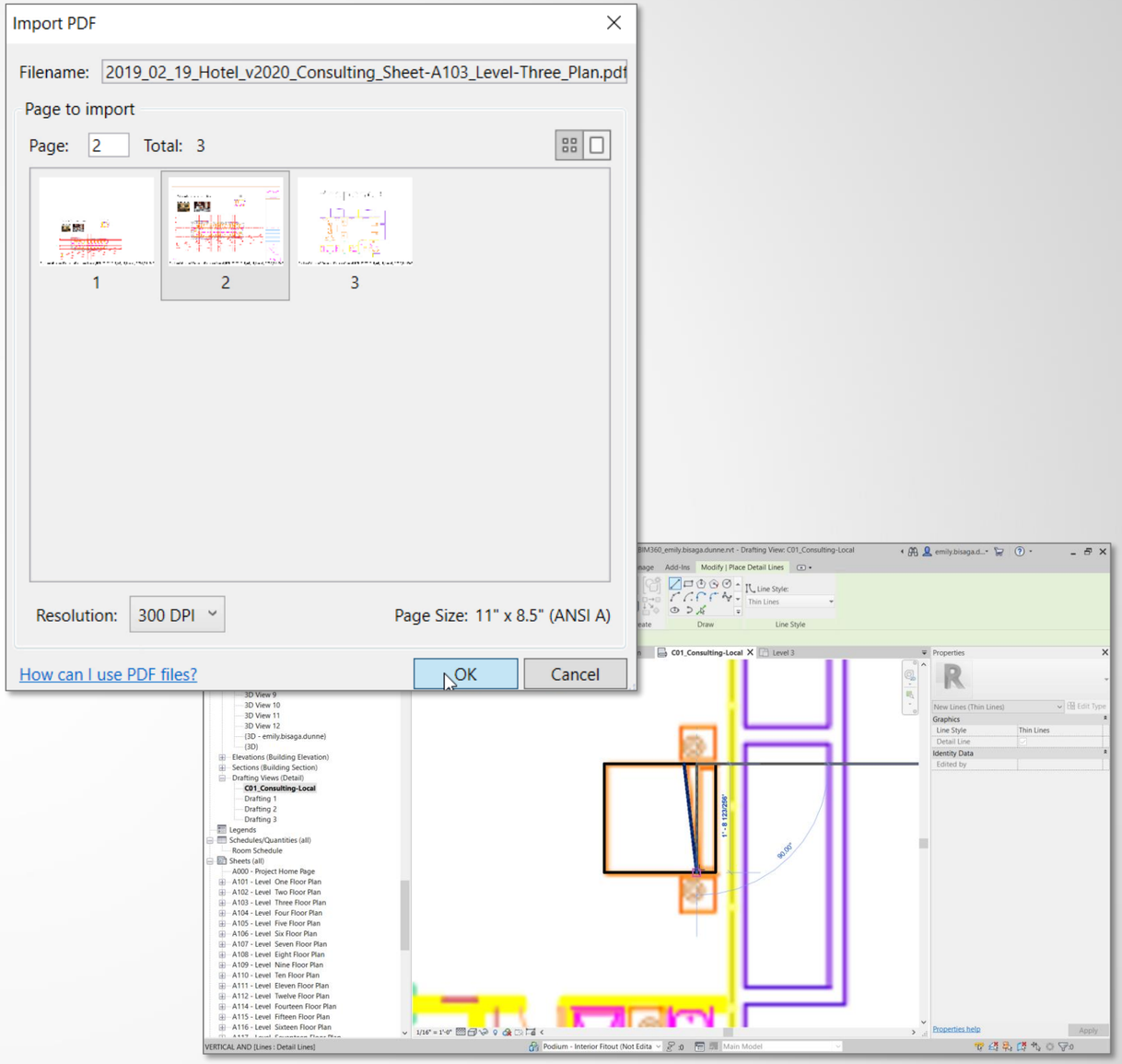
PDF Into Revit

- Use PDFs directly
- Full BIM 360 or Connected Desktop Support
- Able to snap to geometry in the view



Better support construction workflows and work with legacy documents

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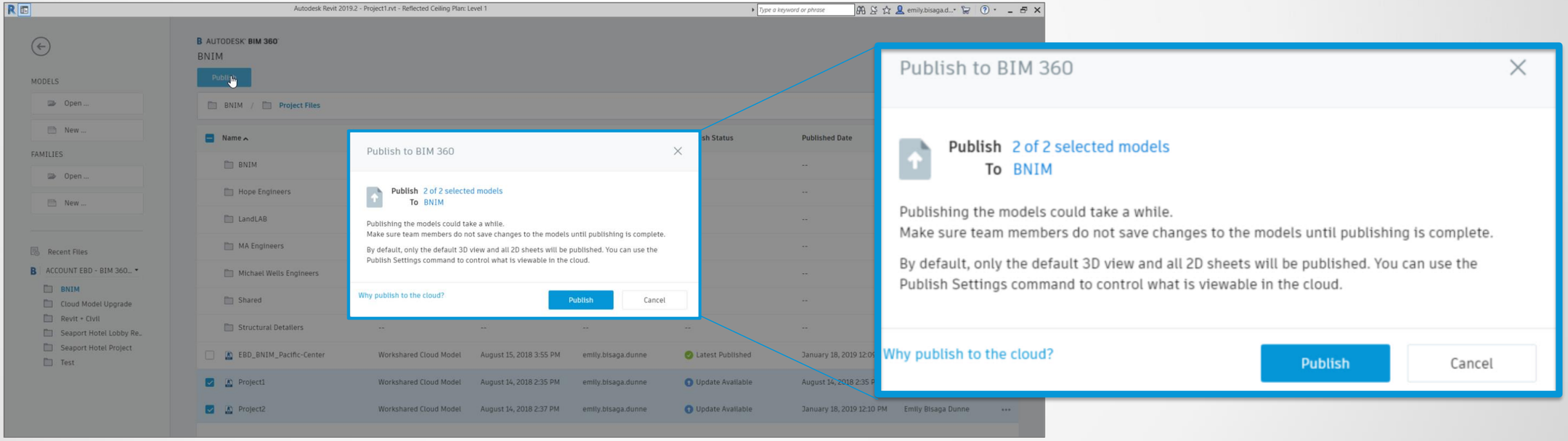
Publish Cloud Models on Revit Home

- Publish model for view and reference in BIM 360



Easier access and a tighter integration with the BIM 360 platform

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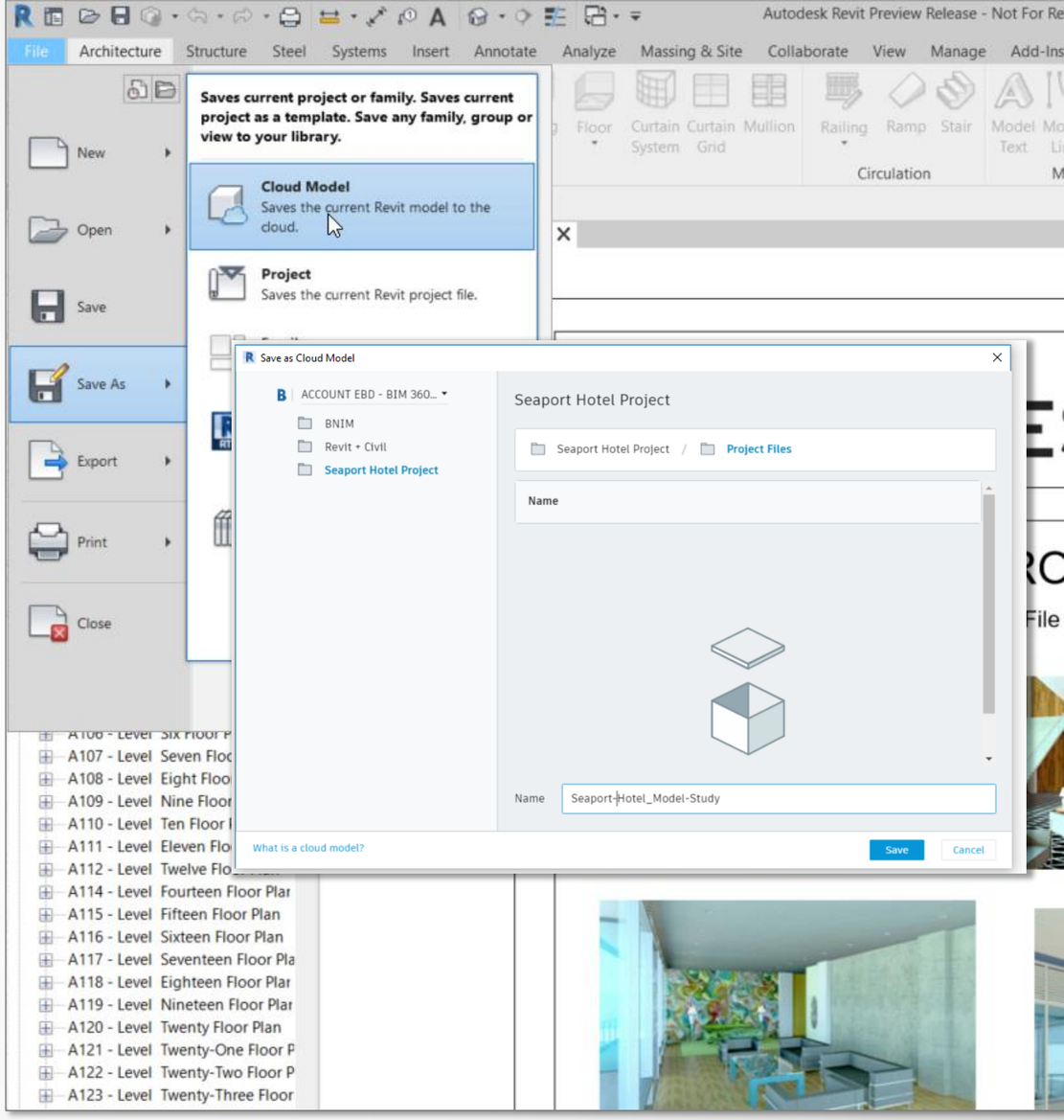
Cloud Models for Revit Update

- Store and access **workshared** and non-workshared models in the cloud
- Utilize BIM 360 for cloud storage
- Provides individual contributors and larger internal teams a connection to BIM 360 platform



Easier access and a tighter integration with the BIM 360 platform

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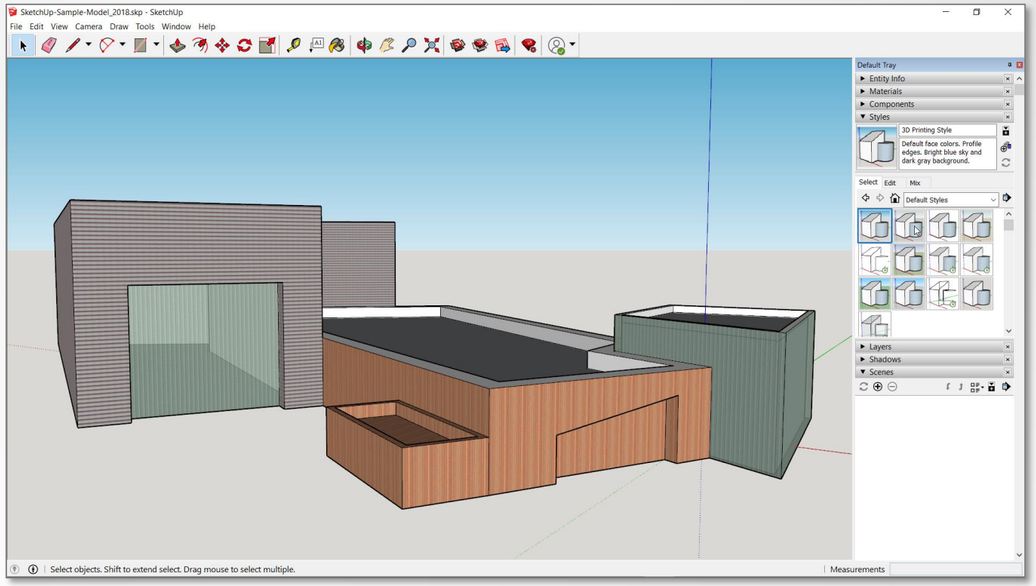
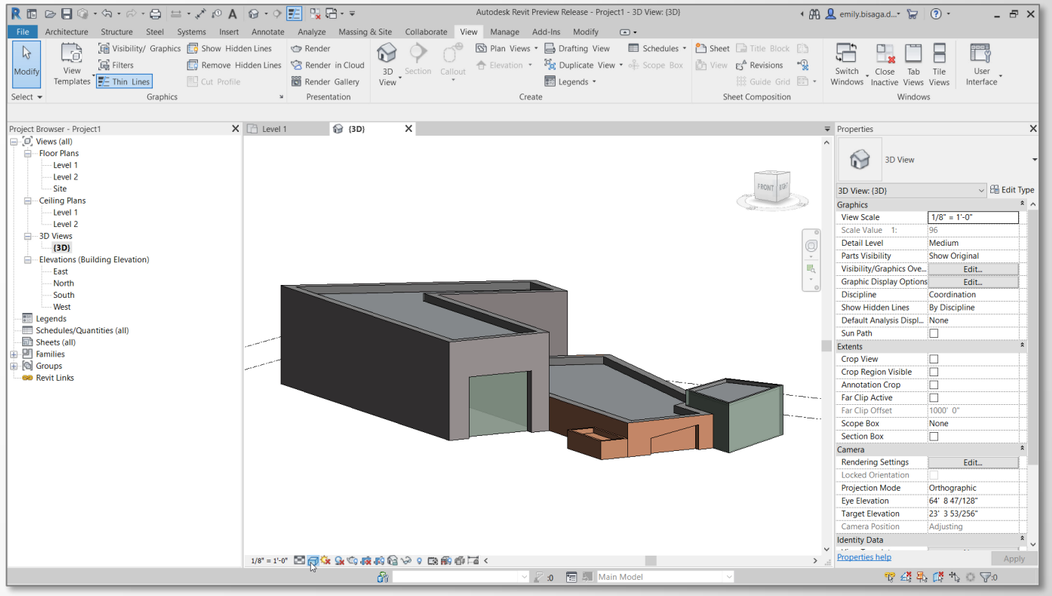


Support for Sketchup 2018 Import and Link

- Supports up to 2018 Version of SketchUp into Revit
- Colors from Sketchup model imported in Revit



Makes it easier to transfer data from sketch model to design model

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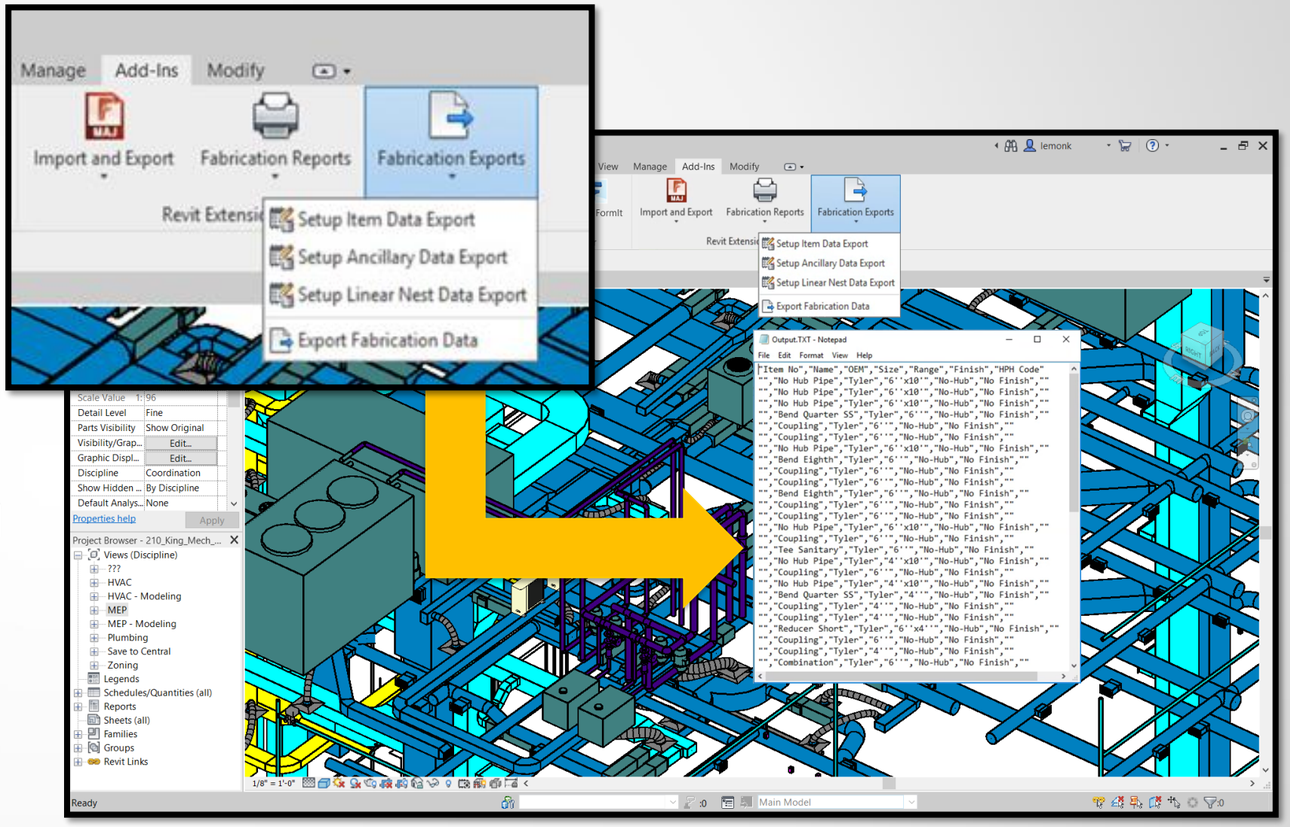
Revit Extension for Fabrication Exports

- Setup data exports
- Reuse formats in fabrication databases
- Extend data to fabrication and procurement



Extend user-definable data to spreadsheets for data driven workflows.

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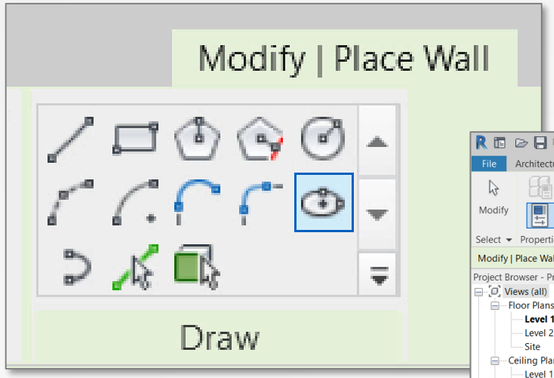
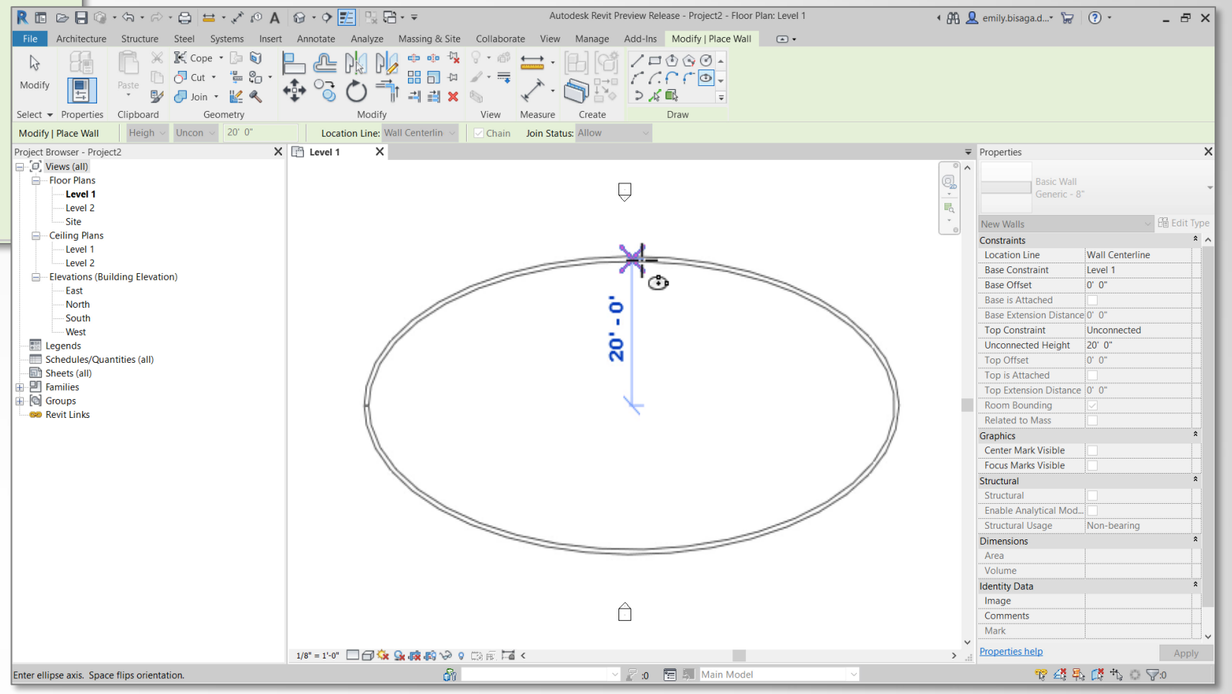
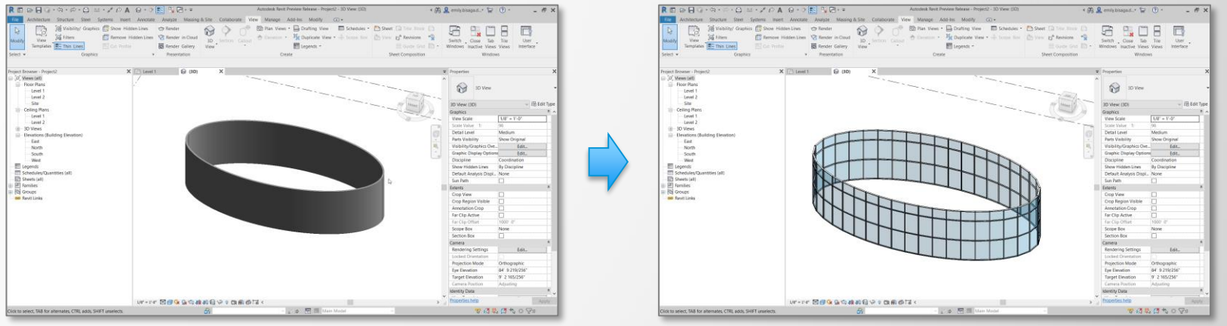




Elliptical Walls

- Ellipse in draw panel for walls
- Ability to change type
- Centerline location line
- Switch types easily



Improves ability to create advanced wall geometry in Revit

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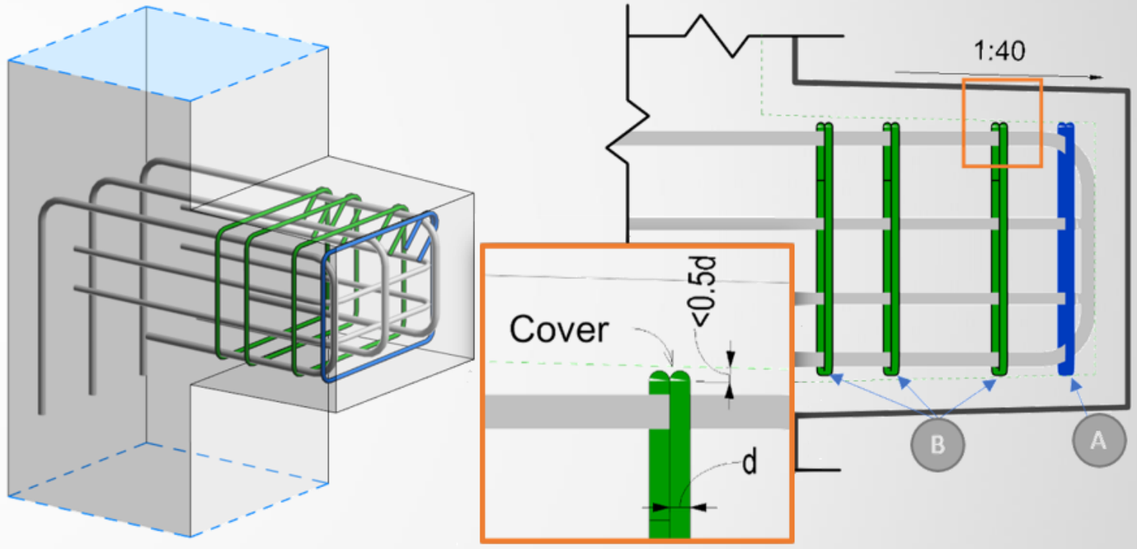
Improved Rebar Copy & Move Logic

- Improved rebar snapping to the cover
- Preserve bar dimensions during interaction with concrete cover
- Get consistent rebar fabrication data when copying bars



Increased precision for Fabrication for copied and edited rebar

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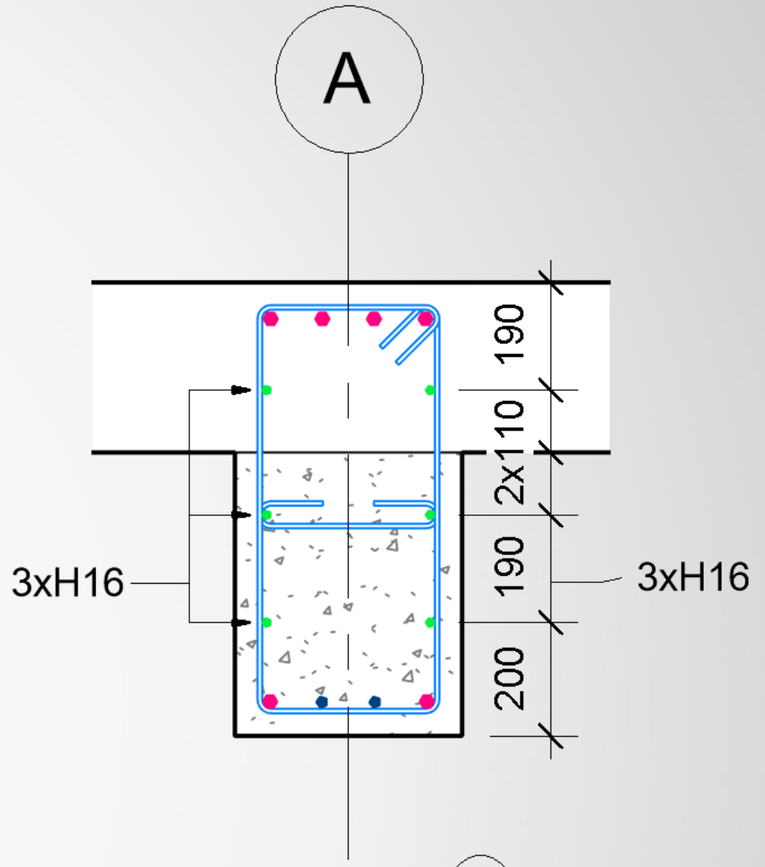
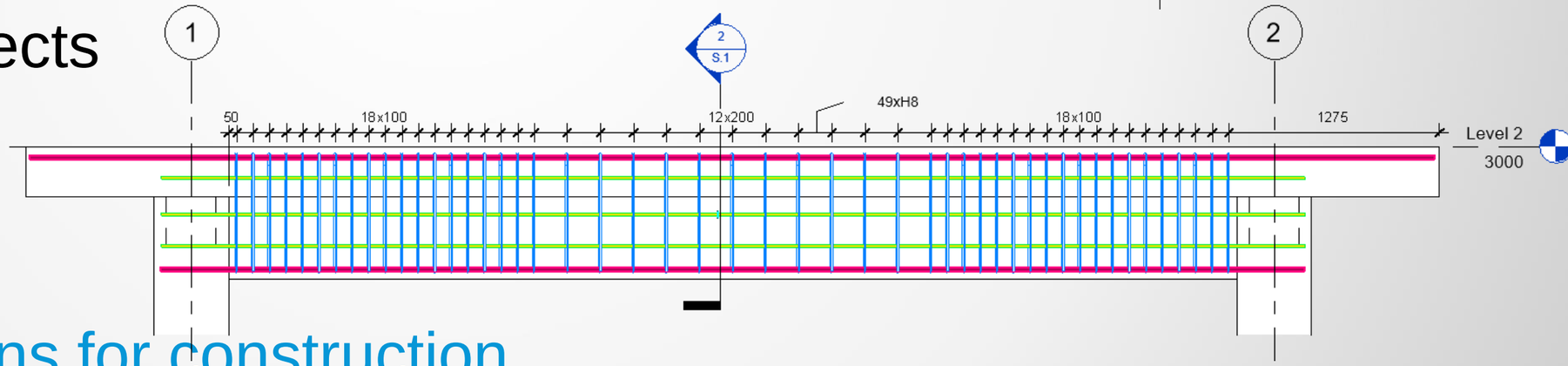


Multi Rebar Annotation to Concrete Faces

- Dimension the position of rebar sets with respect to the concrete host faces
- Accurate documentation for reinforced concrete projects



Enhanced instructions for construction

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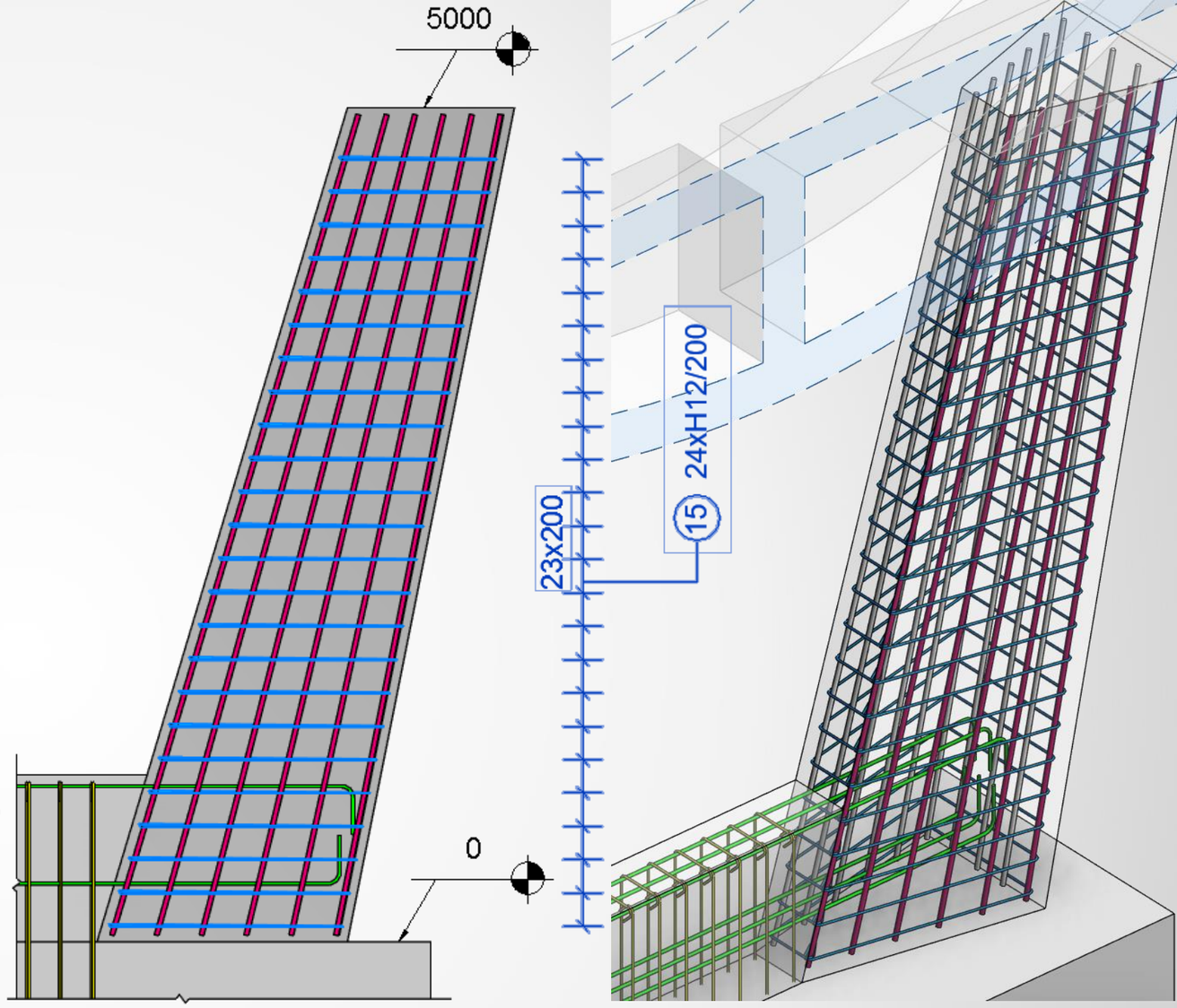
Multi Rebar Annotation for Free Form Rebar

- Dimension free form rebar sets with planar and parallel bars
- Enhanced documentation for reinforced concrete projects



Enhanced productivity and accuracy when documenting rebars in complex geometries

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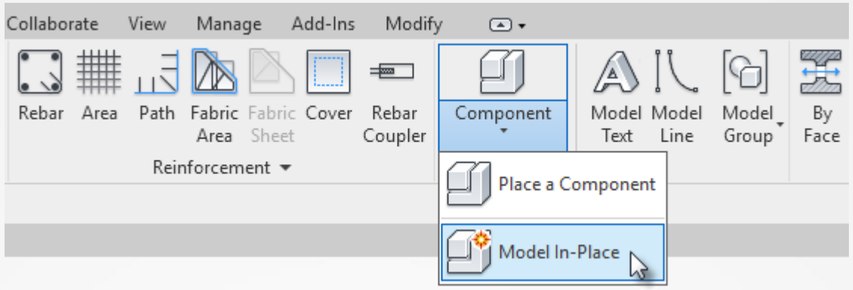
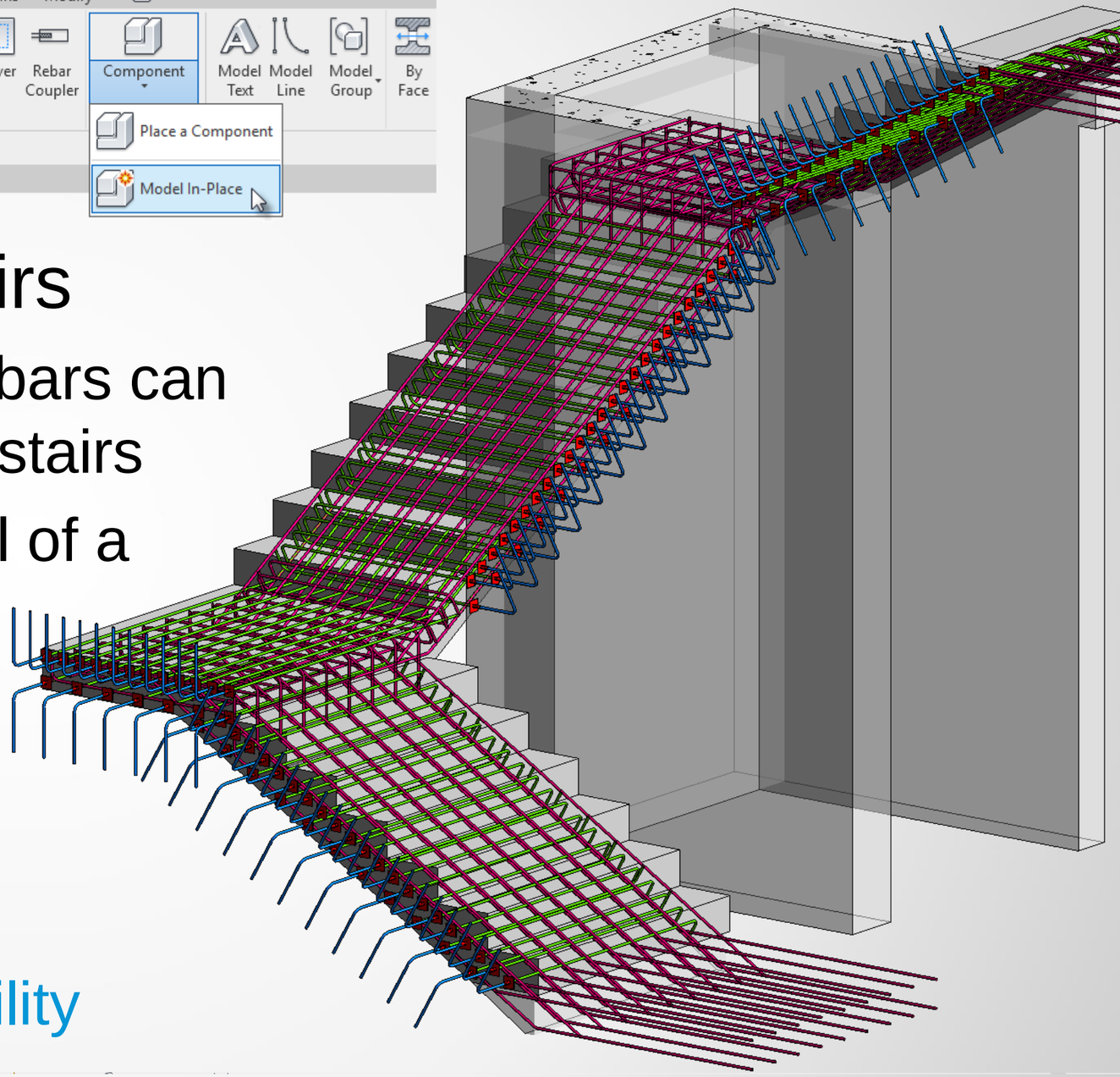


Rebar in Model-in-place Stairs

- Shape driven or free form rebars can be hosted in model-in-place stairs
- Deliver a fully detailed model of a concrete stairs



Increase 3D rebar modeling versatility

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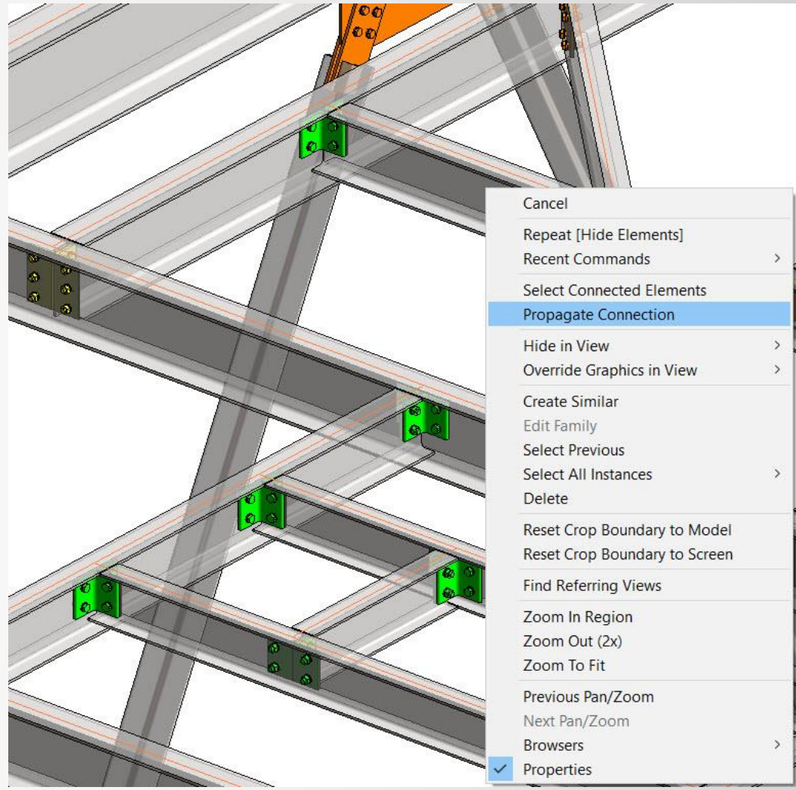
Steel Connections Propagation

- New option in the contextual menu
- Available for any steel connections available out-of-the-box
- Same framing conditions required
- Relevant to visible steel members



Quickly place the same steel connections in your project

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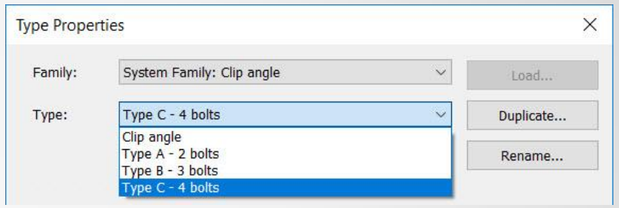
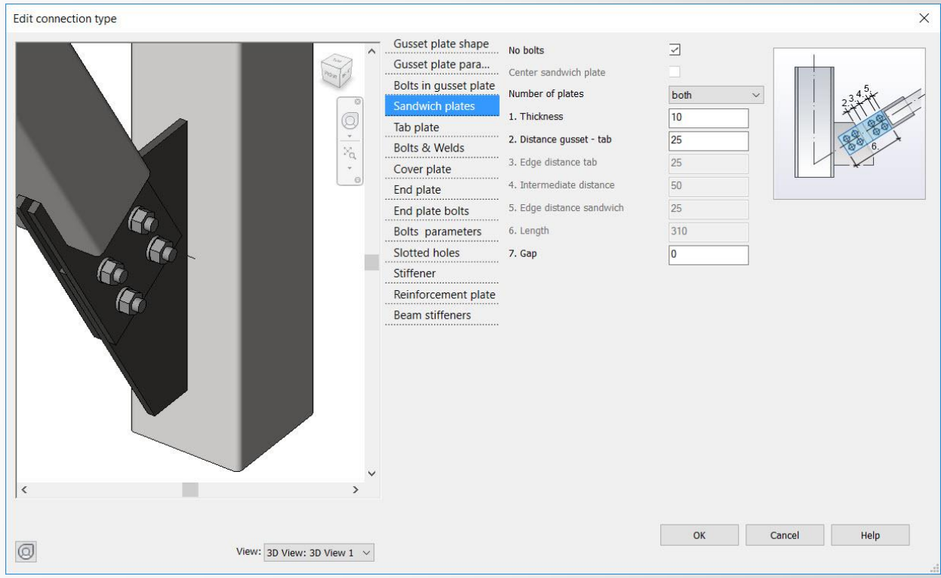


Steel Connections Grouping

- New type editor with preview
- Easily configure different types of connections
- Update all instances of the same type from one place
- Reuse them in same or other project



Manage repetitive connection design more easily and efficiently

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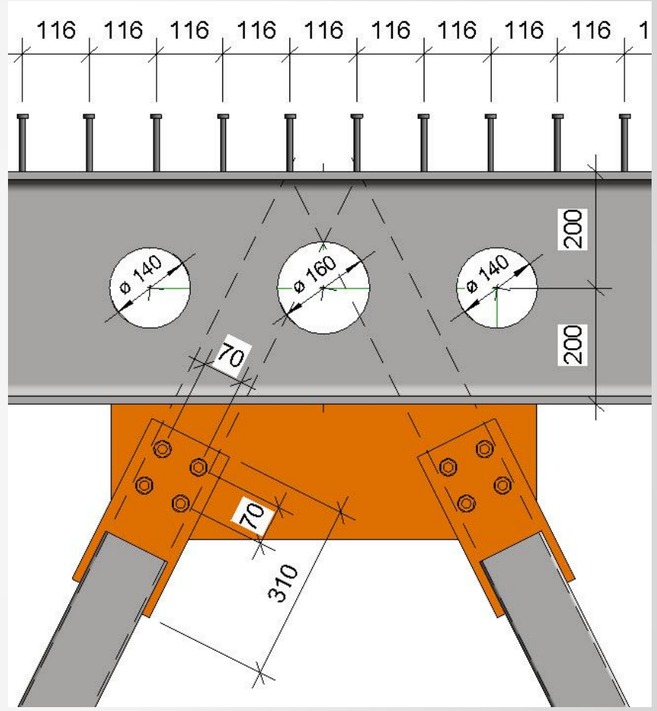
New Features for Tags and Dimensions of Steel Elements

- Radial & diameter dimensions of circular openings
- Dimension for holes and shear studs
- Now allow weld tags in any view



Create more accurate documentation for detailed steel elements

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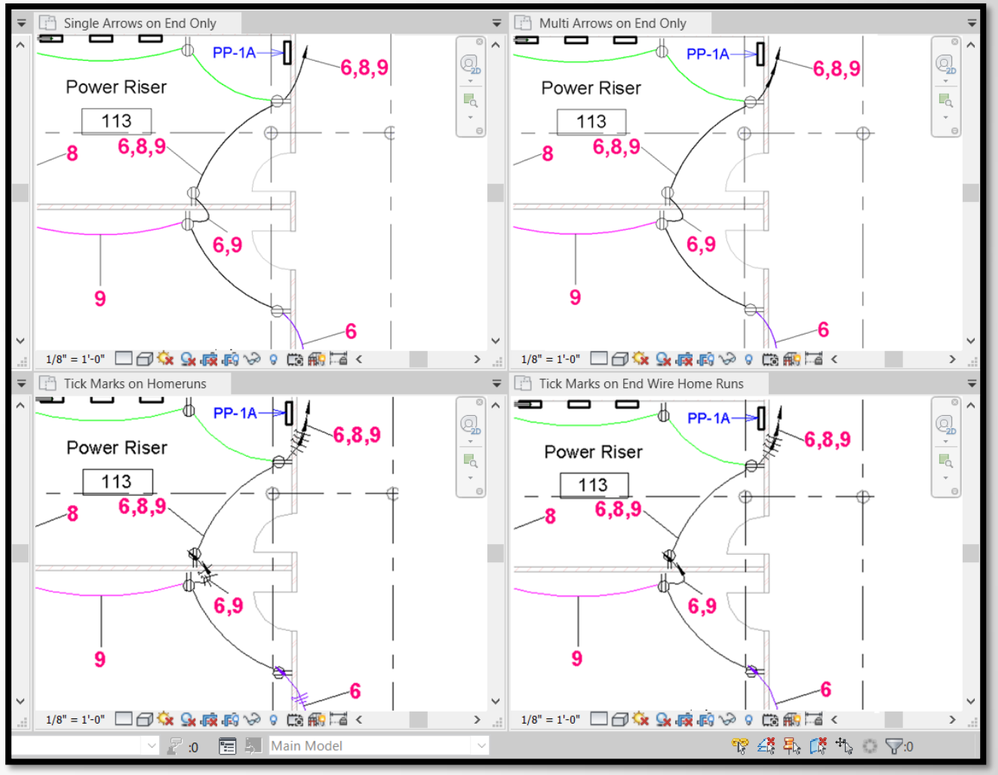
Electrical Homerun Wiring Improvements

- User definable homerun arrow style
- Multi-circuit homerun arrow control
- Additional option for wiring tick-marks



Greater control over homerun wiring displays and tick mark visibility

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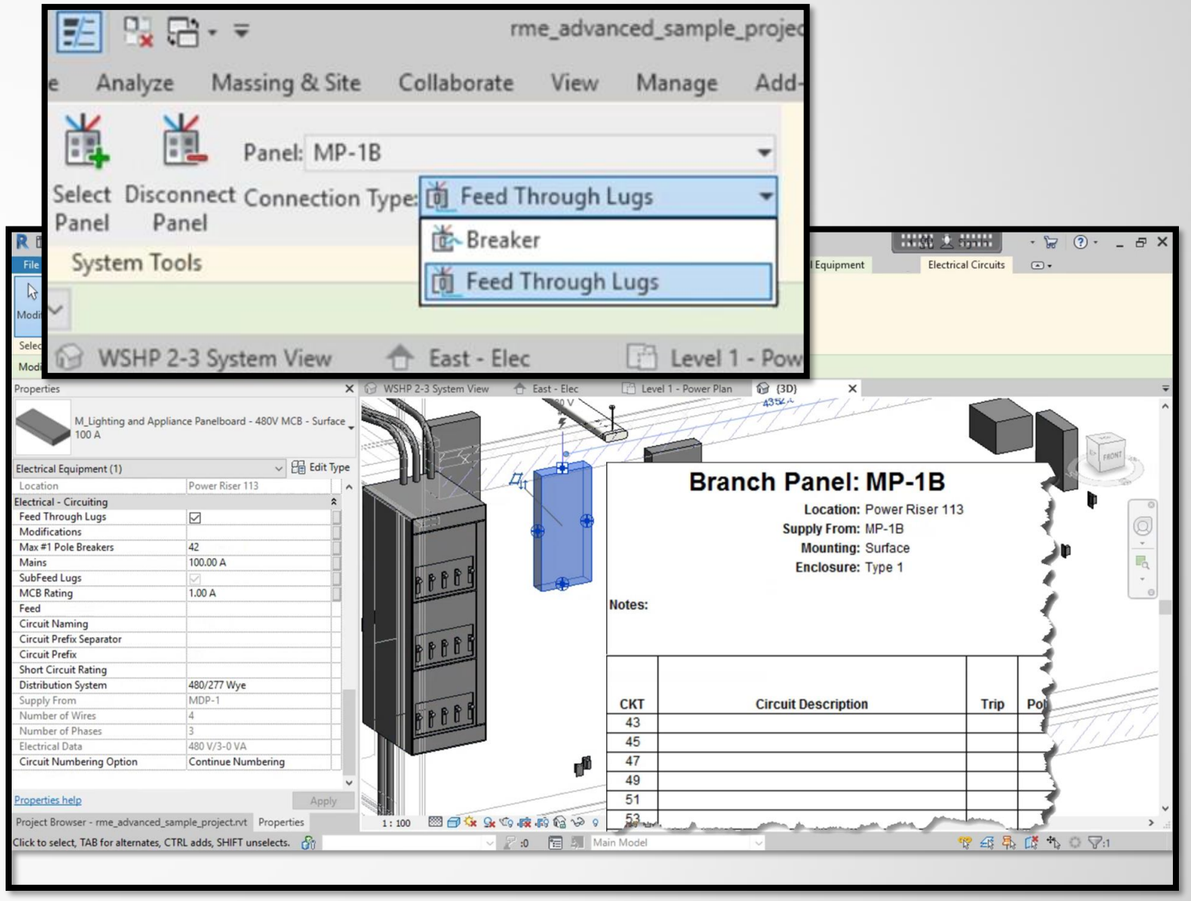
Electrical Panel Feeds Through Lug Connection

- Verify load calculation results
- Test a panel's circuit numbering with both Breaker and Feed Through Lugs.
- Modify existing panel schedule templates



Connect equipment to lugs for new load reporting abilities on panel schedules

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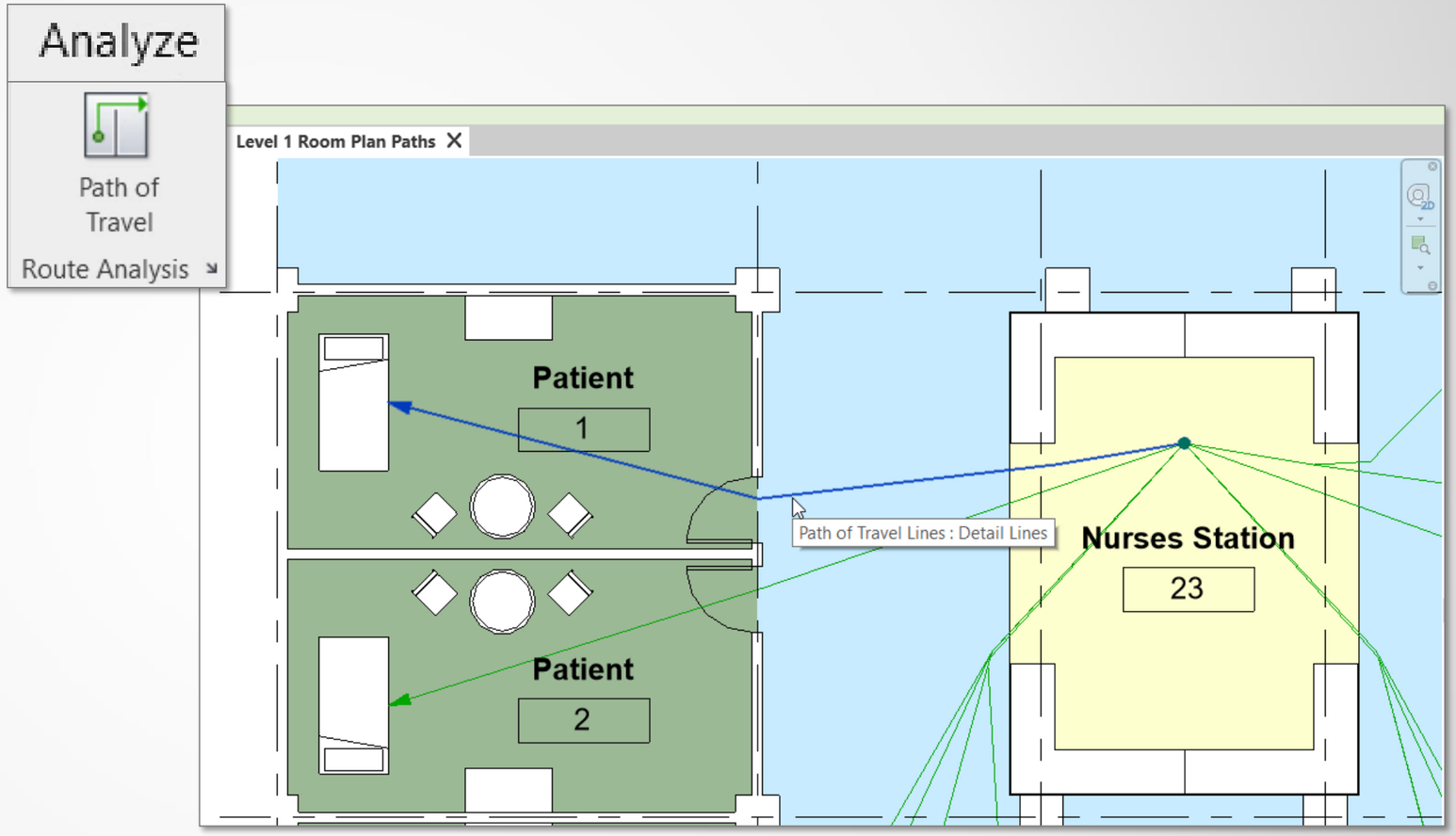
Optimize
Autodesk Revit 2020

Path of Travel

- Automates path between two points
- Creates a Revit path element
- Understands obstacles
- Schedule and tag



Design check tool to help understand navigation of occupants

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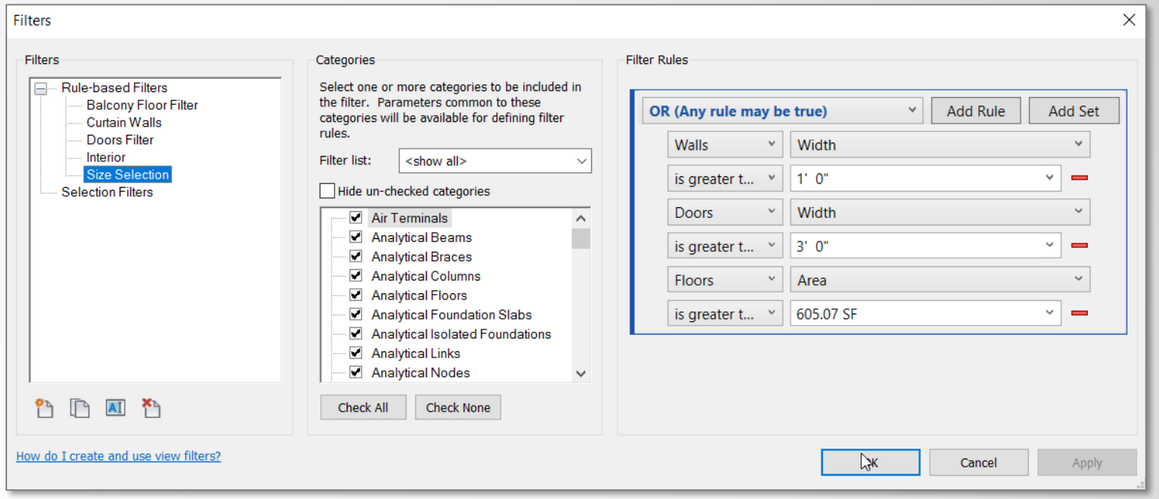
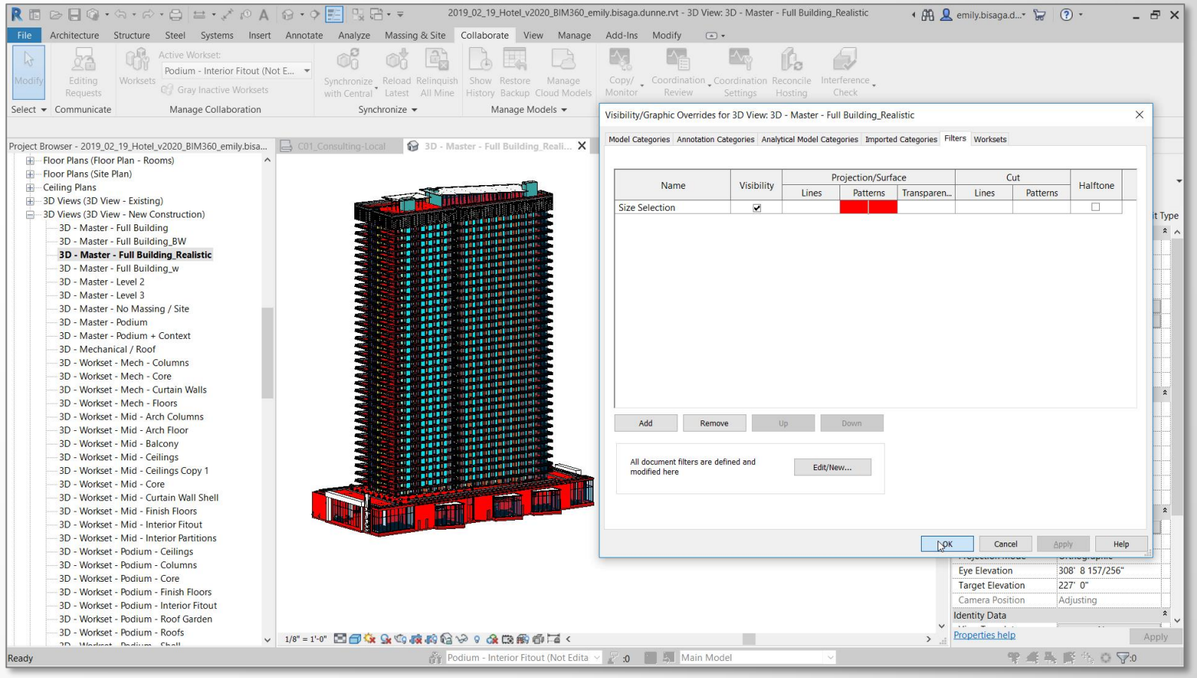


Improved OR in View Filters

- Available for OR filters only
- Shows inclusive list of parameters
  for just that category
- Extends parameters
  available for use



Allows for the creation of advanced filter sets

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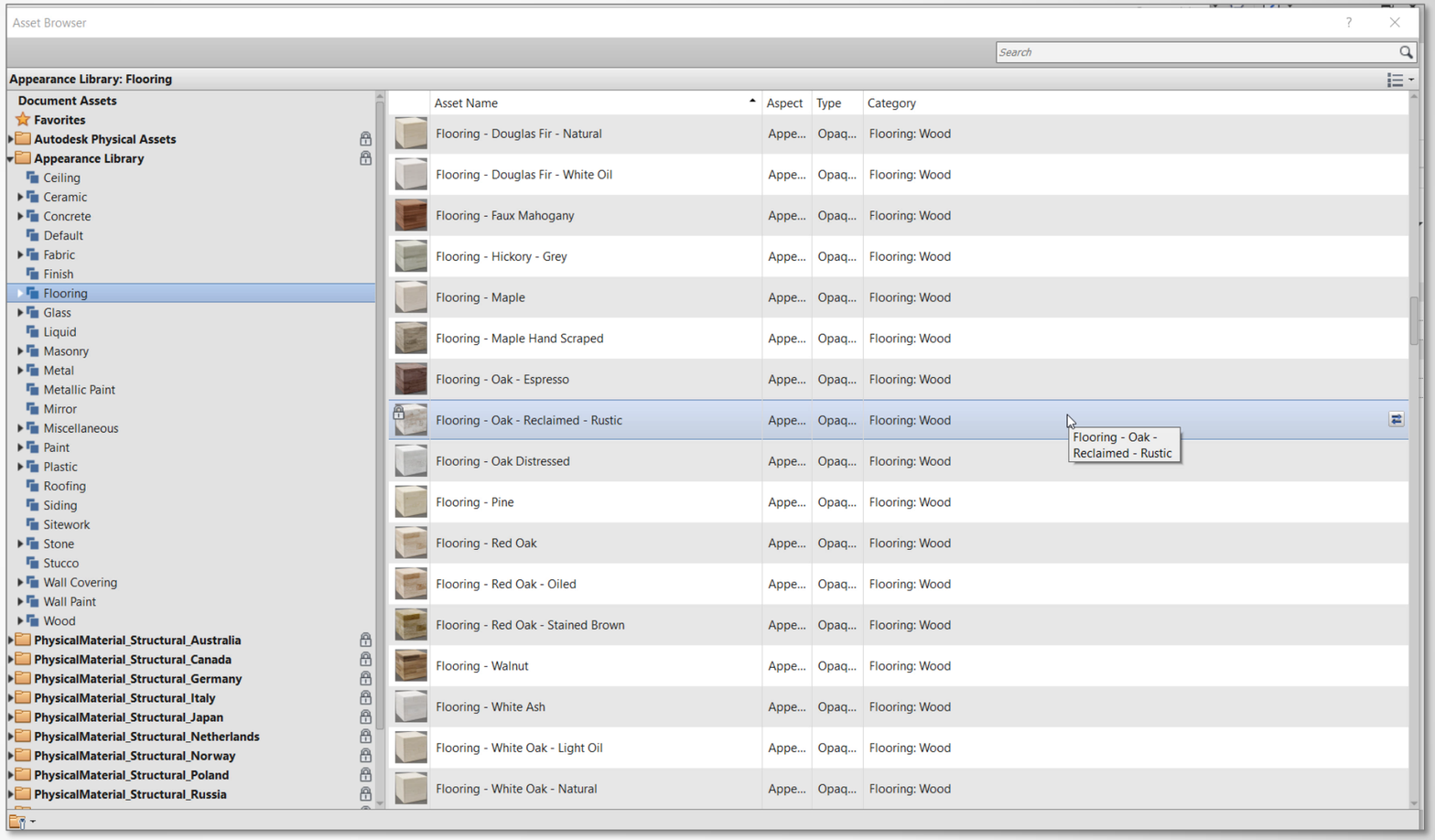
Material Appearance Improvement

- High quality
- Optimized
- Realistic



Extend your material appearance capabilities

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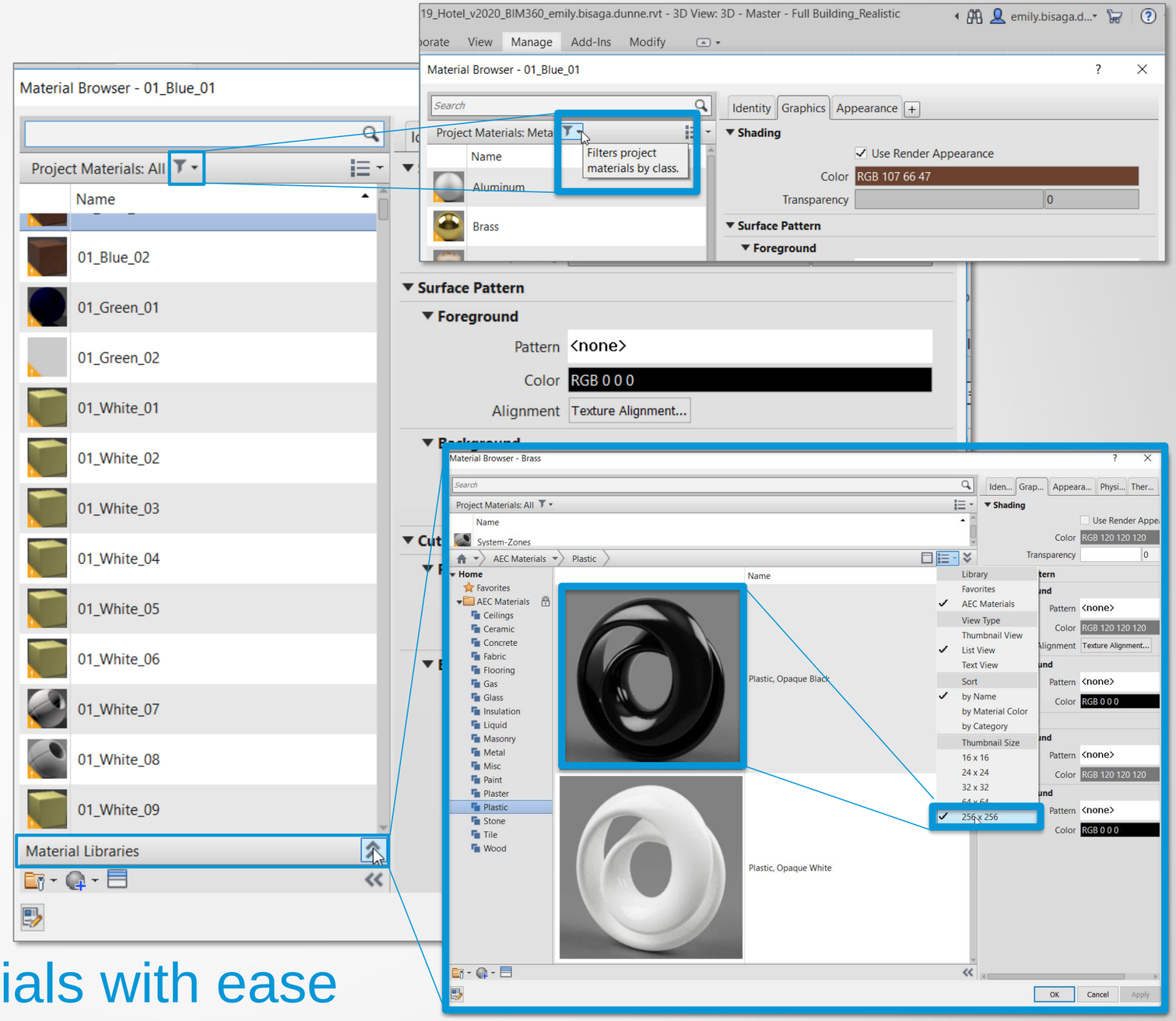
Material User Interface Improvements

- Easier access to libraries
- New filter by class
- New larger thumbnail



Access, filter and view materials with ease

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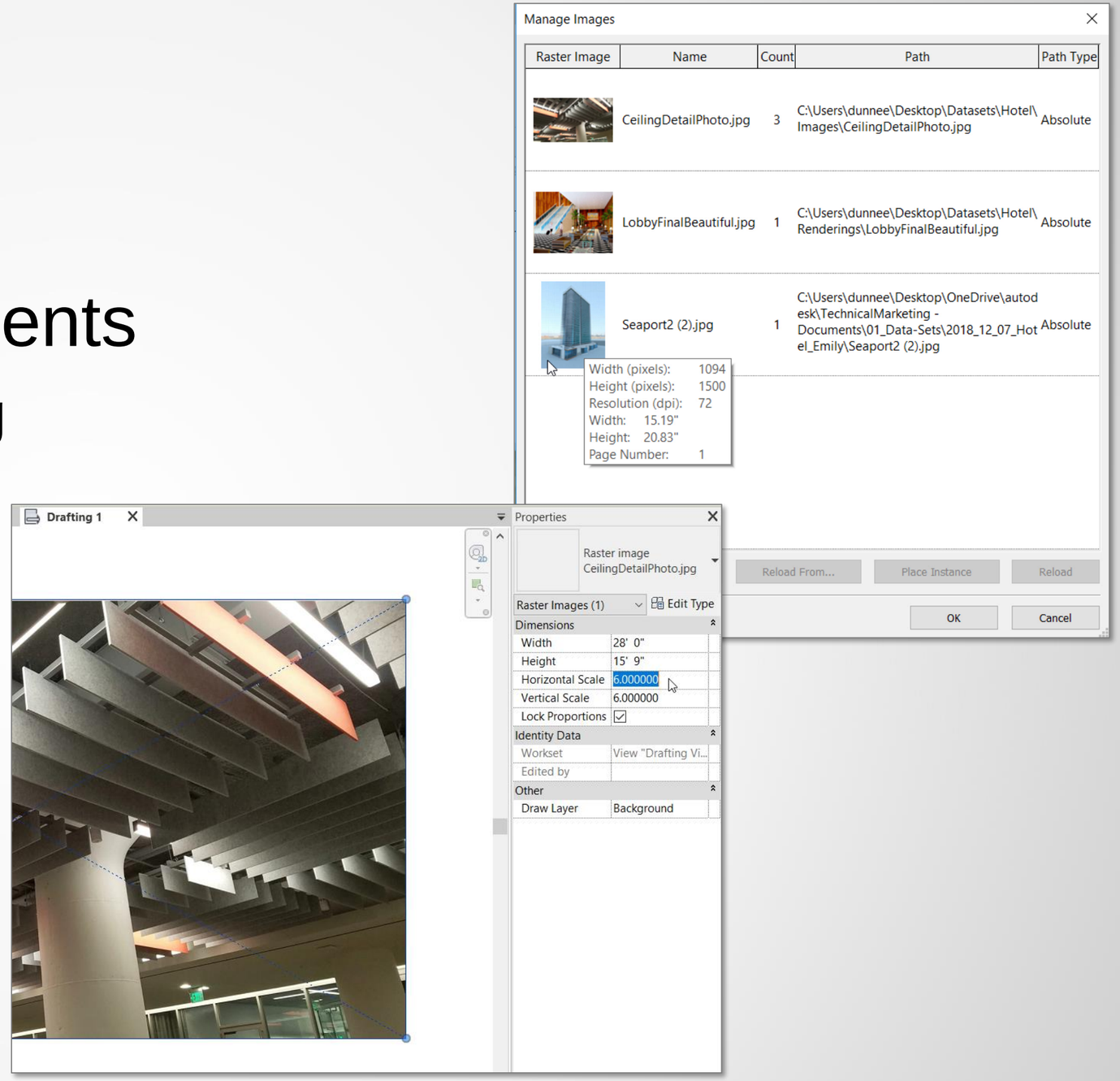
Image and PDF Improvements

- Better image info reporting
- BIM 360 paths enabled
- Modify scale parameters



Advanced image support

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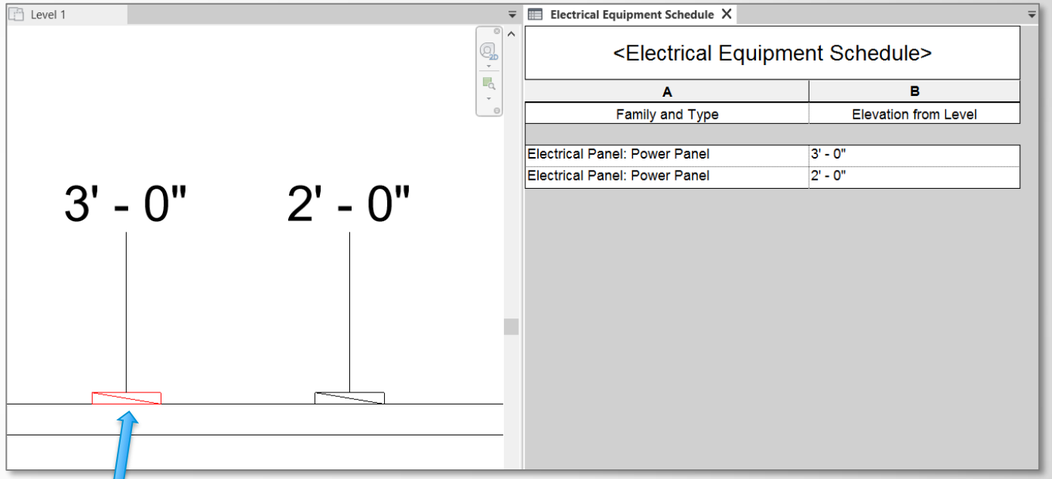
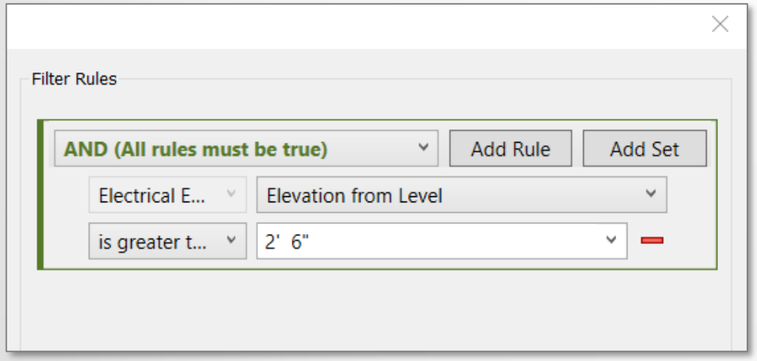
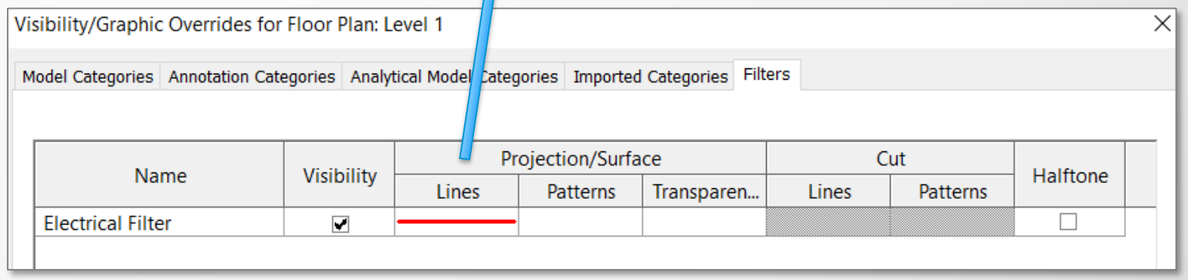
Tag, Schedule and View Filter for Elevation

- Tag elevations of elements
- Use elevations in view filters
- Schedule elevation values







Smart coordination

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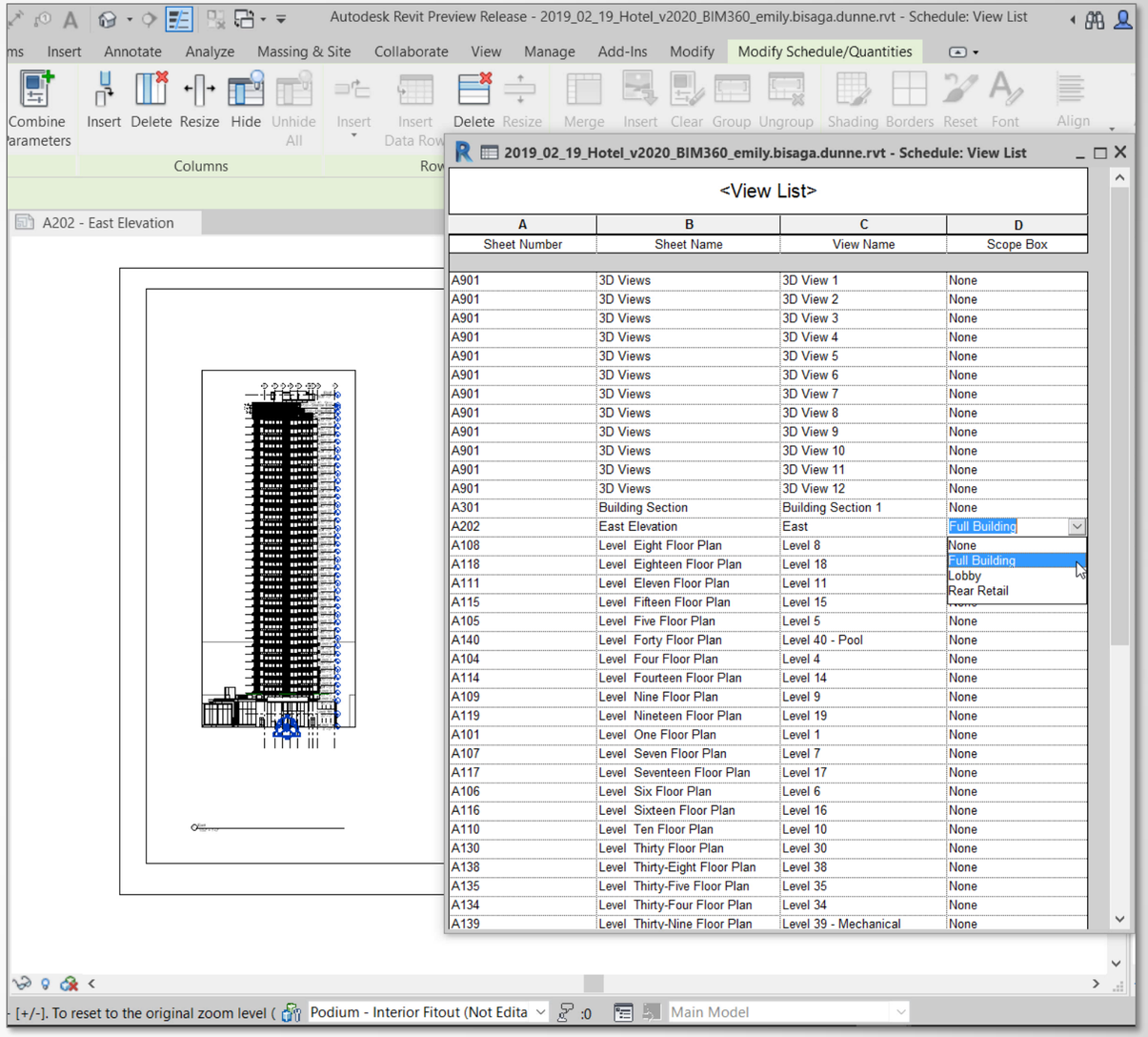
Track and Edit Scope Box Parameter in View List

- Easy to apply scope box to view from the view list
- Coordinates crop regions across views



Create consistency between views in your project

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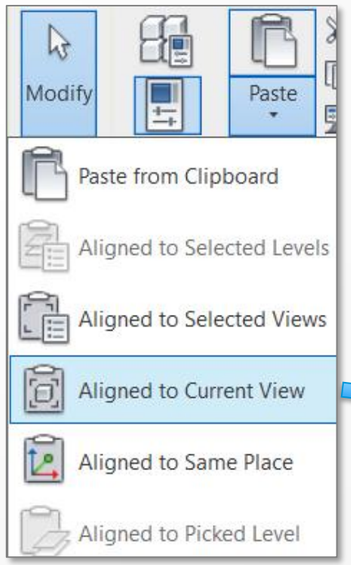
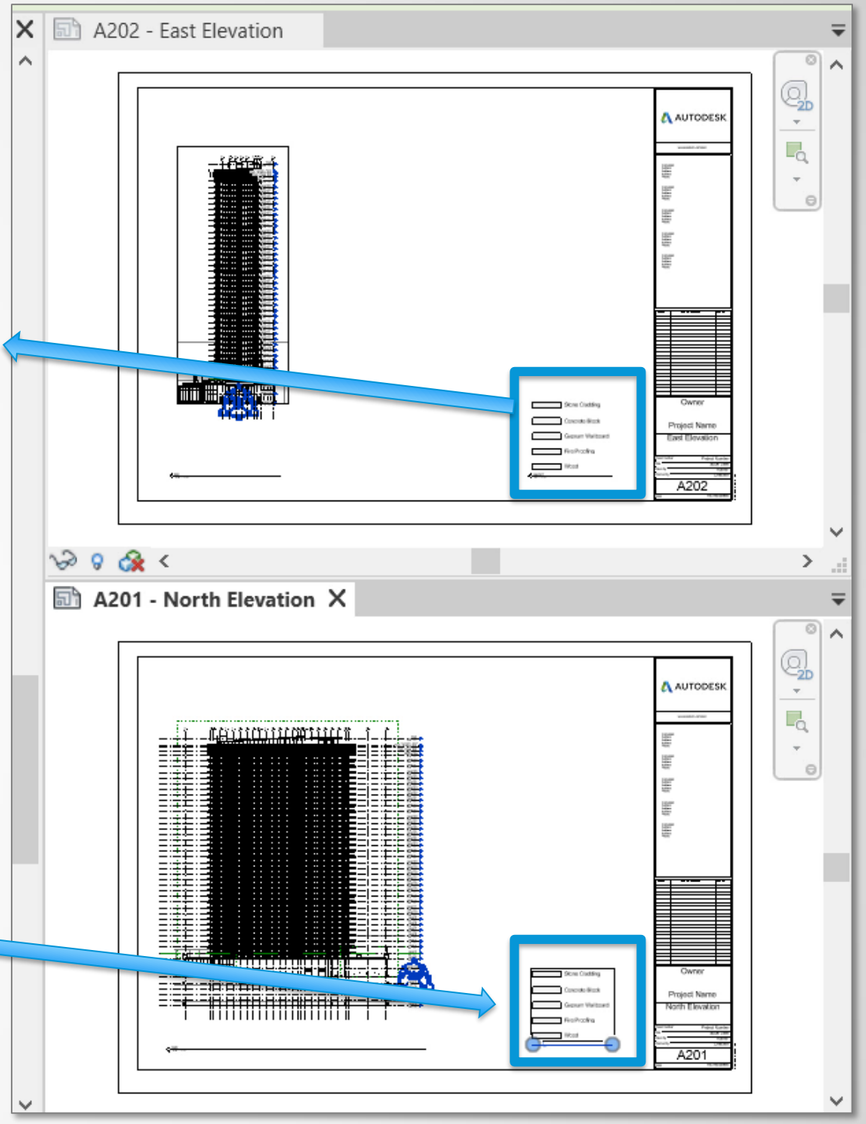
Optimize

Autodesk Revit 2020

Copy and Paste Legends Across Sheets

- Now copy and paste legends
- Dialogue is resizable
- Place on multiple sheets
- Place aligned to same place





Create consistency between views in your project

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Optimize
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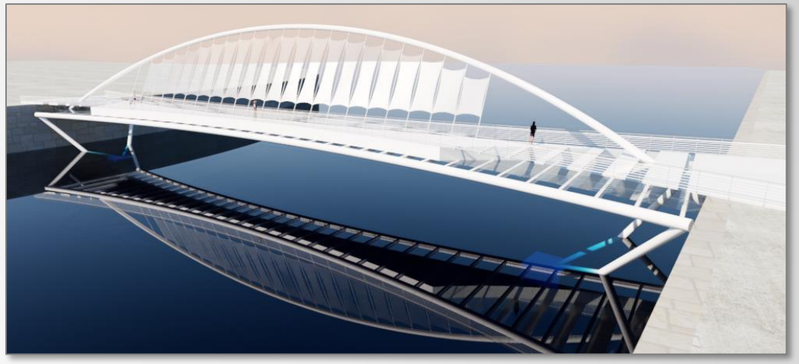
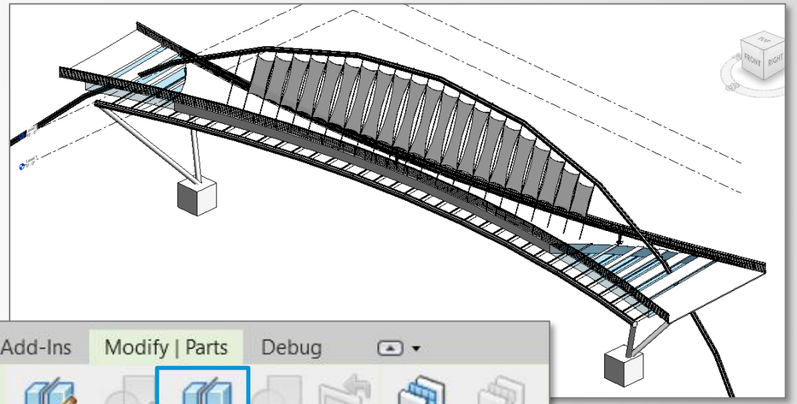
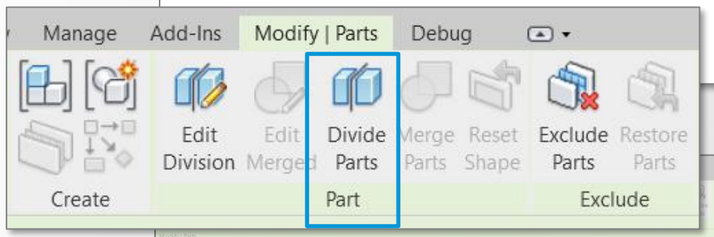
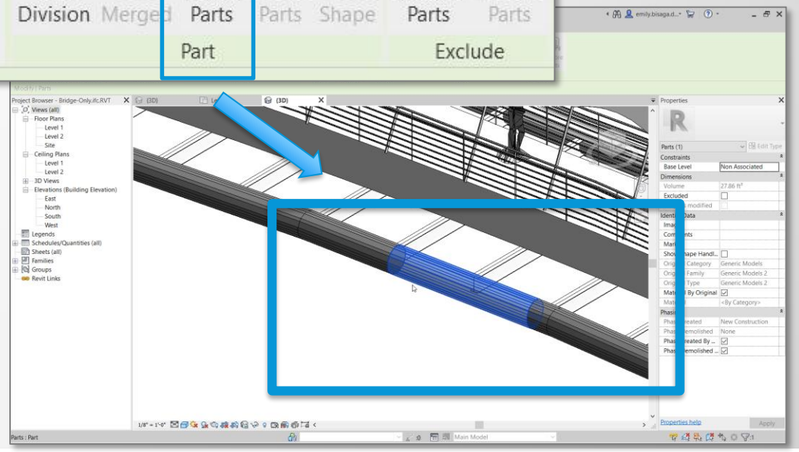


Create Parts from Imported Geometry

- Parts for imports from Infraworks
  or any DirectShape (IFC)
- Split and cut parts for construction
- Great for bridge workflow
- Revit> Link IFC> creates
  .rvt file with imported geometry for parts







Quickly parse data for construction workflows

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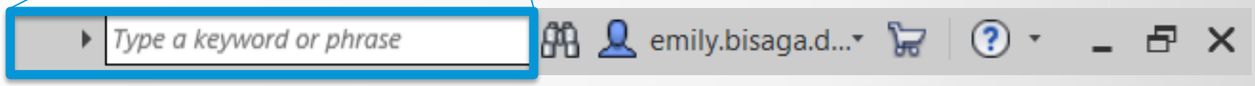
Optimize
Autodesk Revit 2020

InfoCenter Reduction

- Removed WSCmmcntr process
- Collapsed the search bar
- Increased space on title bar

2019.2 InfoCenter

Reduced 2020 InfoCenter



Expanded 2020 InfoCenter

Process project info more clearly at a glance

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Optimize

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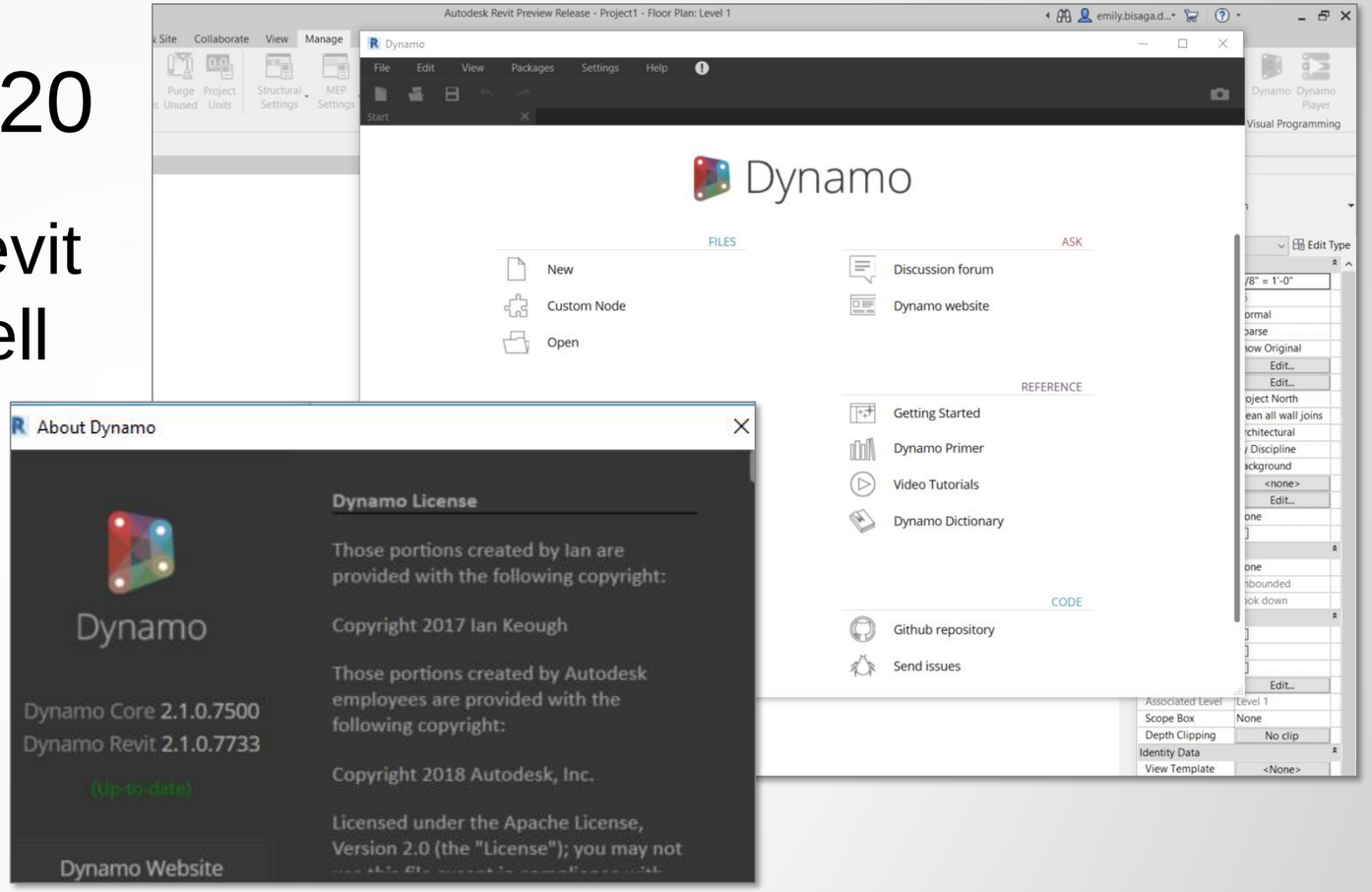
Dynamo 2.1 Ships with 2020

- Every time you update Revit Dynamo will update as well
- Does not impact other Dynamo installations



Streamline Dynamo installation coordination for your team

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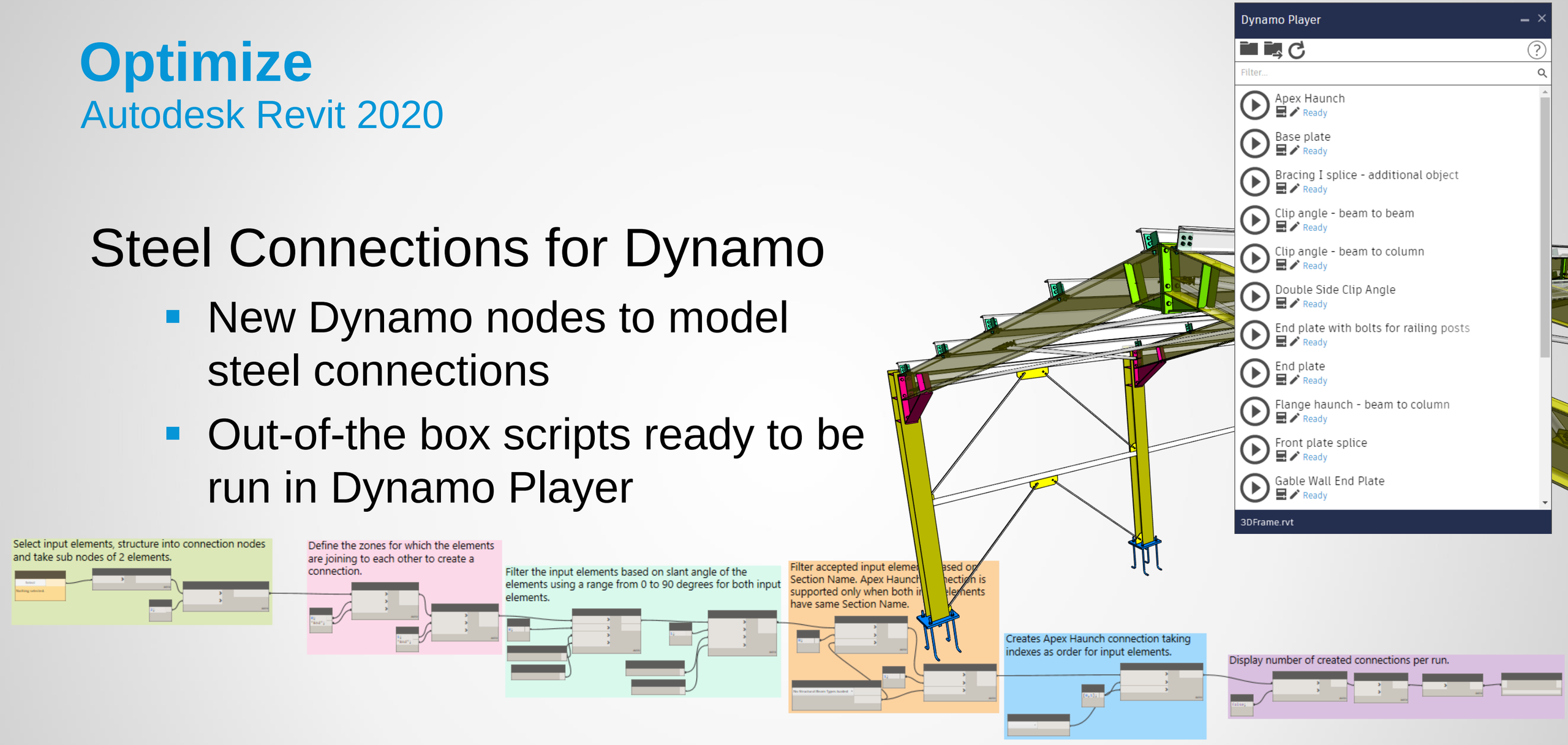
Steel Connections for Dynamo

- New Dynamo nodes to model steel connections
- Out-of-the box scripts ready to be run in Dynamo Player



Enhanced productivity by automating modeling of steel connections

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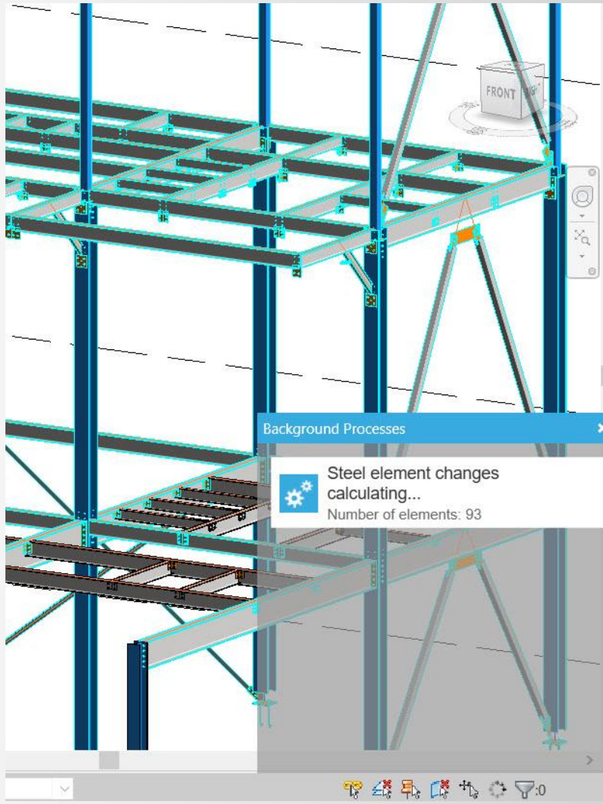
Enhanced Performance for Detailed Steel Models

- Background process for steel connections
- Faster response time
- Allow to perform other actions at the same time
- Involved elements highlighted in color
- Status visible in background processes window



Get a faster response time for performance intensive steel engineering tasks

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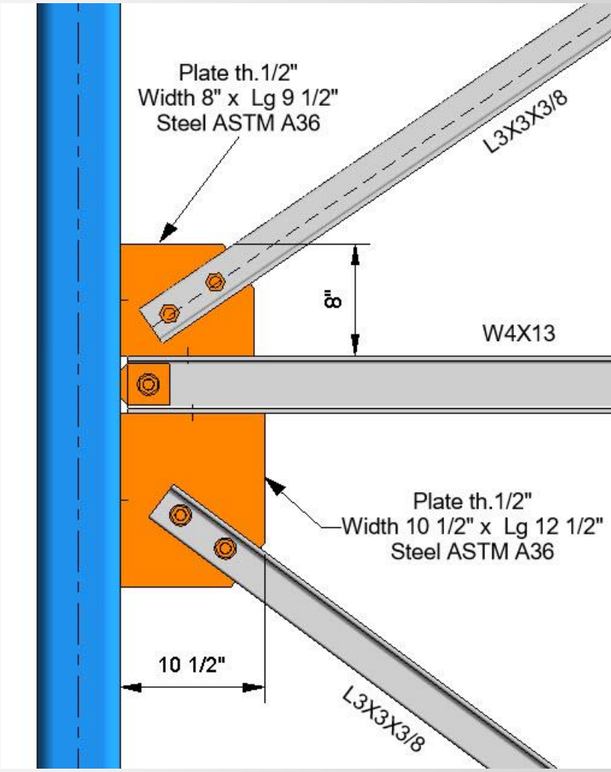
Additional Parameters for Steel Components

- More parameters at hand
  - e.g. plate width & length
- Capture more information from the BIM model
- Enhanced collaboration with fabricators
  - More detailed tags
  - Schedules with more information



Create more accurate documentation for components of steel connections

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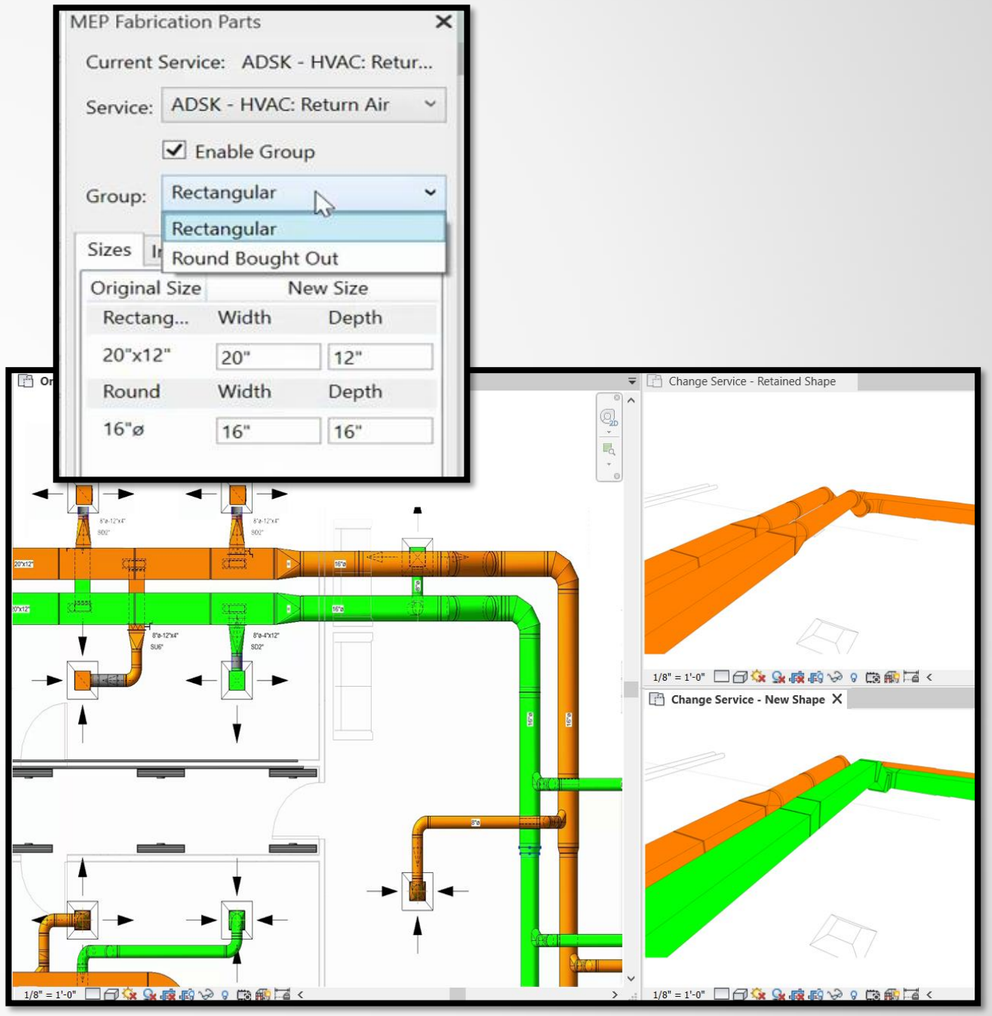
Change Service Improvement

- Maintain or retain duct shapes
- Maintain size restrictions of pipework when swapping multiple pipe types
- Group filters include couplings, adapters, and equipment



Easily change or retain duct shapes with the Change Service functionality.

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