AUTODESK. UNIVERSITY

AS462110 - Creating Intelligent Details and Keynotes in AutoCAD Architecture

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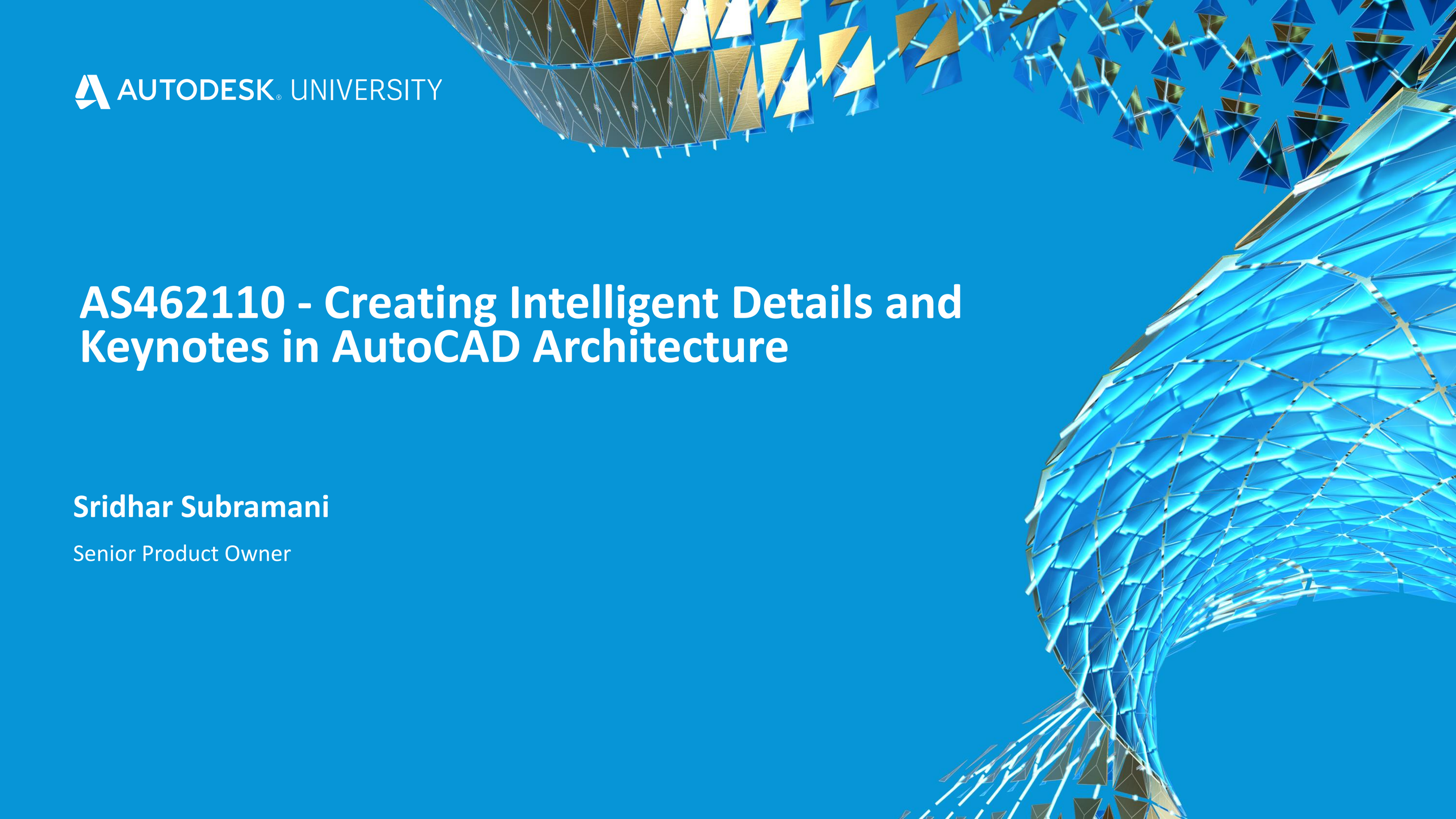
Senior Product Owner



About the speaker

Sridhar Subramani has more than 20 years of CAD experience, working as Senior Product Owner at Autodesk, Inc. A frequent presenter at AutoCAD University for the last 7 years. A seasoned professional in software testing, he has also been actively involved in news groups of AutoCAD Mechanical software and AutoCAD Architecture software and resolved over 1500 issues reported by customers. Sridhar conducts in-house training in AutoCAD software and AutoCAD Architecture software. He has written several technical solutions that are published on the Autodesk support website.

Class Summary

Everyone knows that AutoCAD Architecture is a 3D program, and that it has intelligence when modeling. However, this intelligence is sometimes lost when creating details. In this session, we'll show how to create intelligent details using detail components. In doing this, we'll be able to keynote these elements to maintain a consistent noting procedure. We will then introduce how to modify the detail components. We will also learn how to place all of the detail files on a sheet. If keynoting isn't your choice, we'll also cover how to tag these elements so that there's consistent notation of the details on every project.

Key learning objectives

At the end of this class, you will be able to:

- Learn how to create the detail components
- Learn how to modify the detail components
- Learn how to create the keynote on detail components
- Learn how to place detail files on a sheet

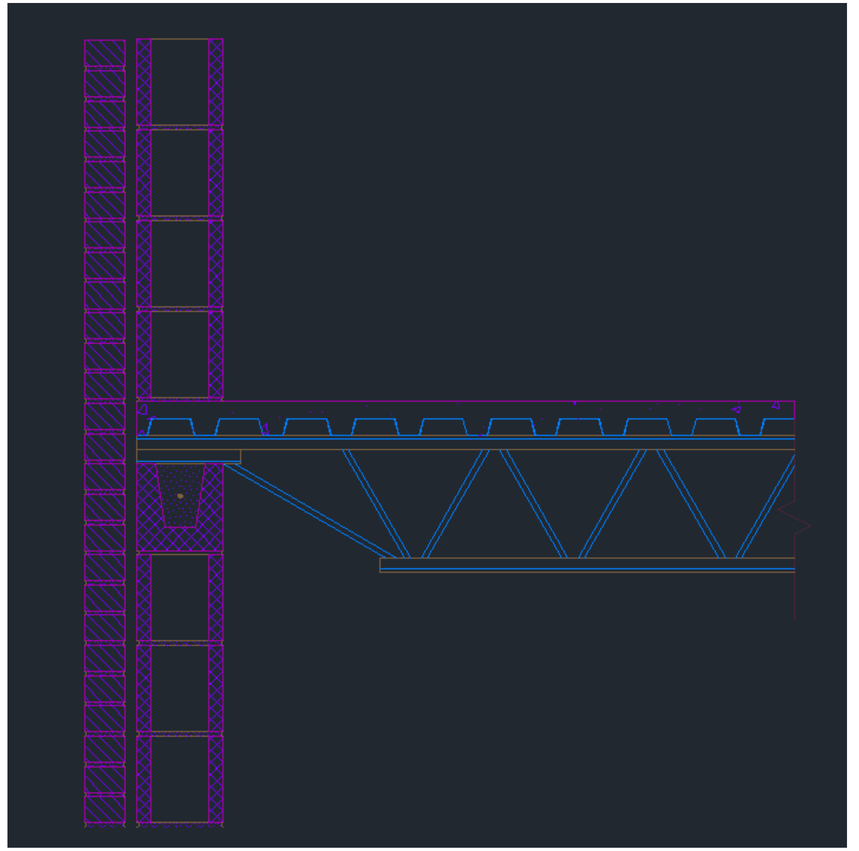
Introduction to Detail Components

Most of the components that you will need to create your 2D enlarged details in AutoCAD Architecture are available in the Detail Component Manager.

Detail Components represent specific materials or elements in a building. They can be blocks, hatches or single entities.

You can navigate among different detail component databases.

- Global
- UK
- US



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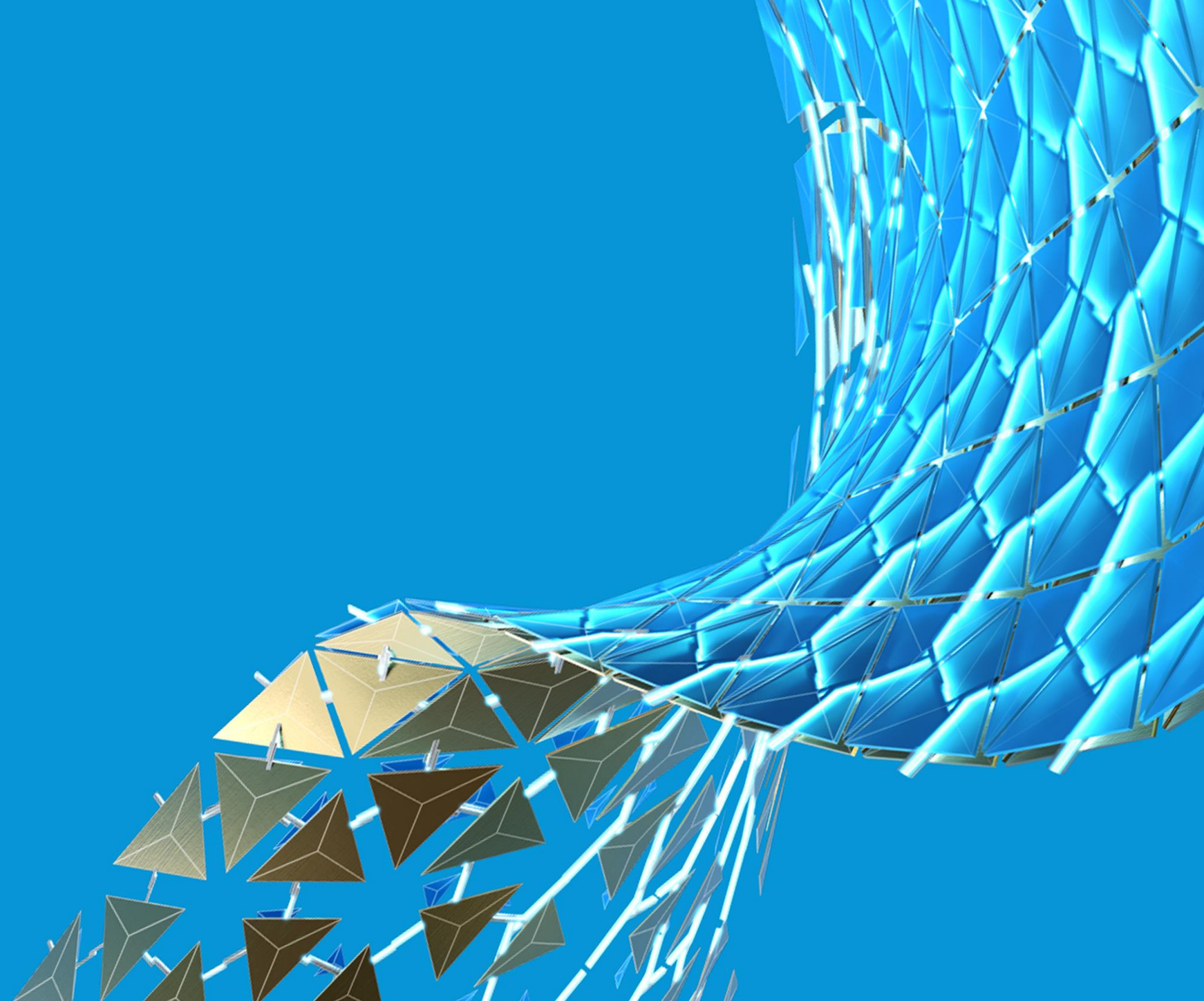
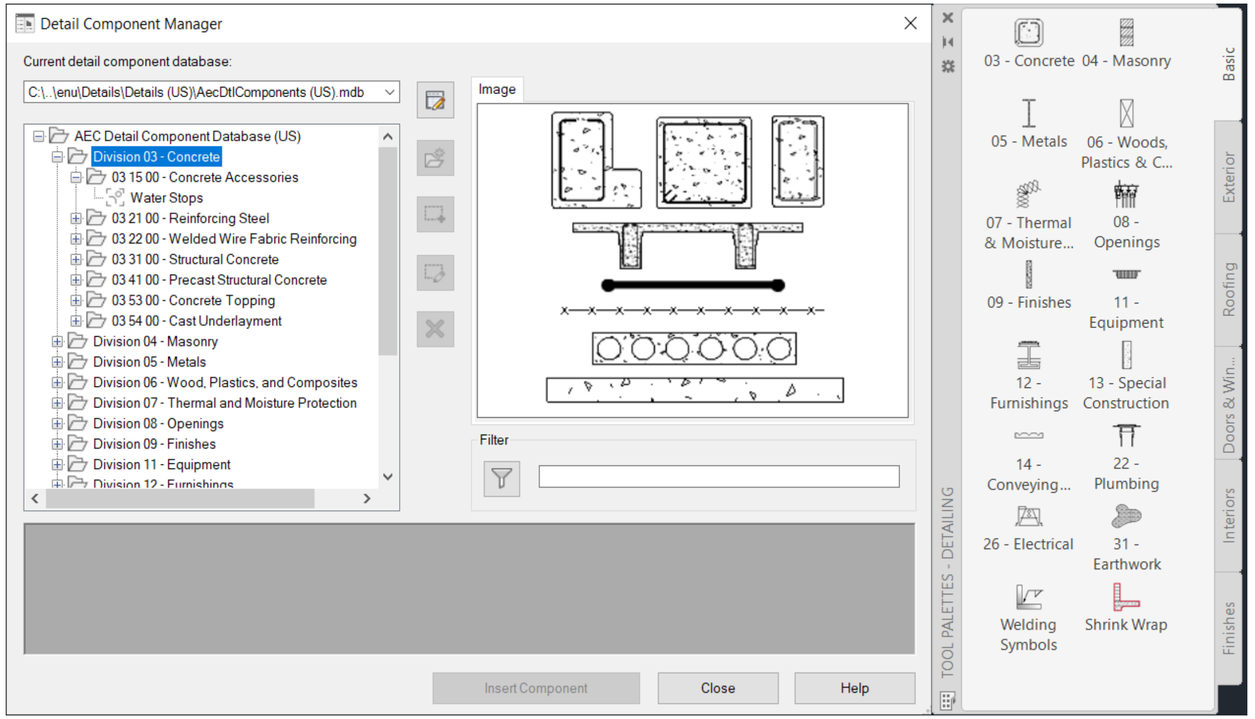


Create Detail Components

There are three methods in AutoCAD Architecture to insert detail components. The first method is on the Home tab, Detail component panel. The second method is in the Detailing palette group on the Tool Palettes. The last method is using ‘Add selected’ option.

- Detail Component Manager
  - Concrete Unit Masonry>> 2 Core CMU component
  - Steel Joist Framing>> H-Series Open Web joists.
  - Structural Concrete>> Slab with Metal Decking
- Tool Palette
  - Standard Brick - 3/8" Joint
- Add Selected



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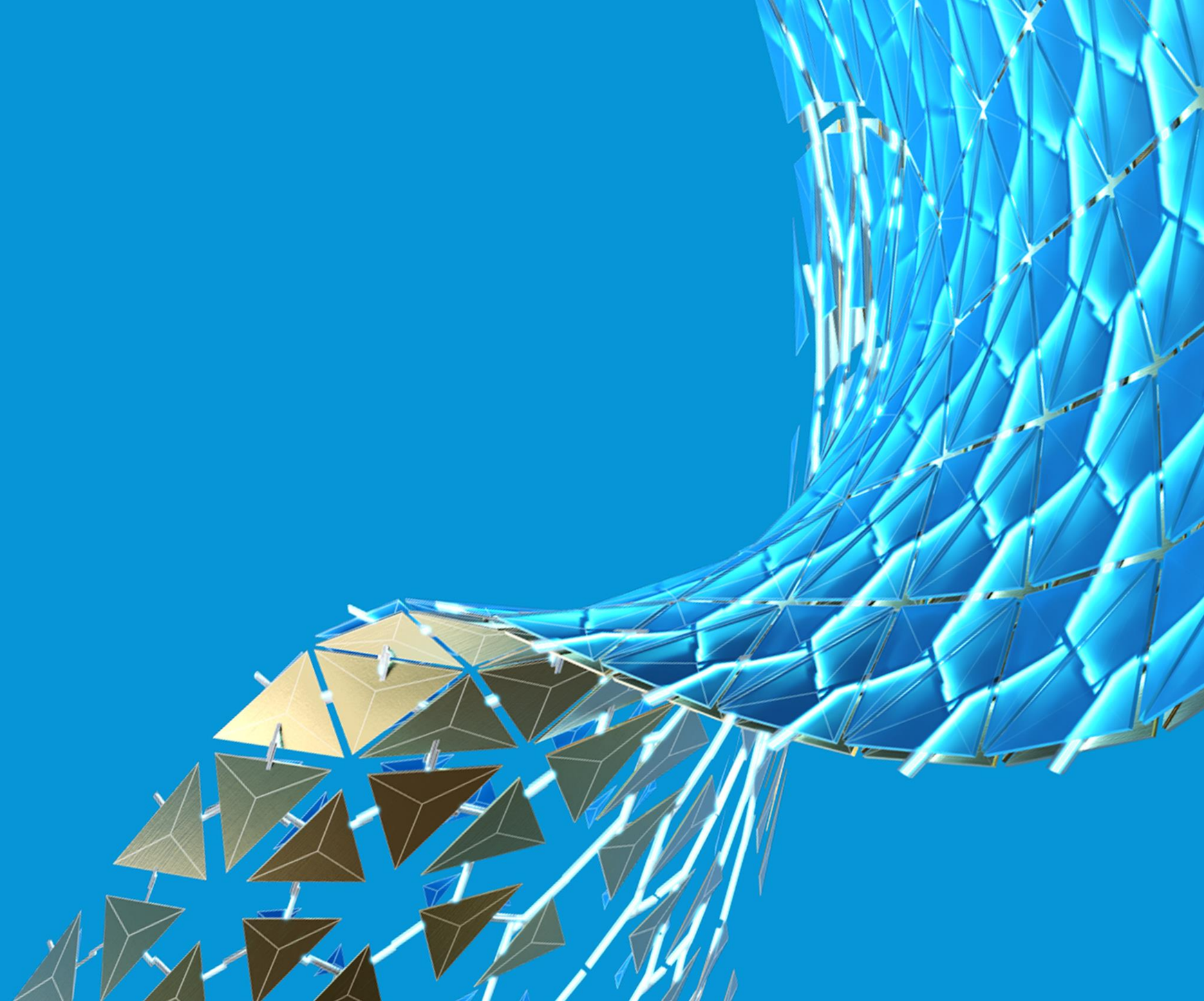
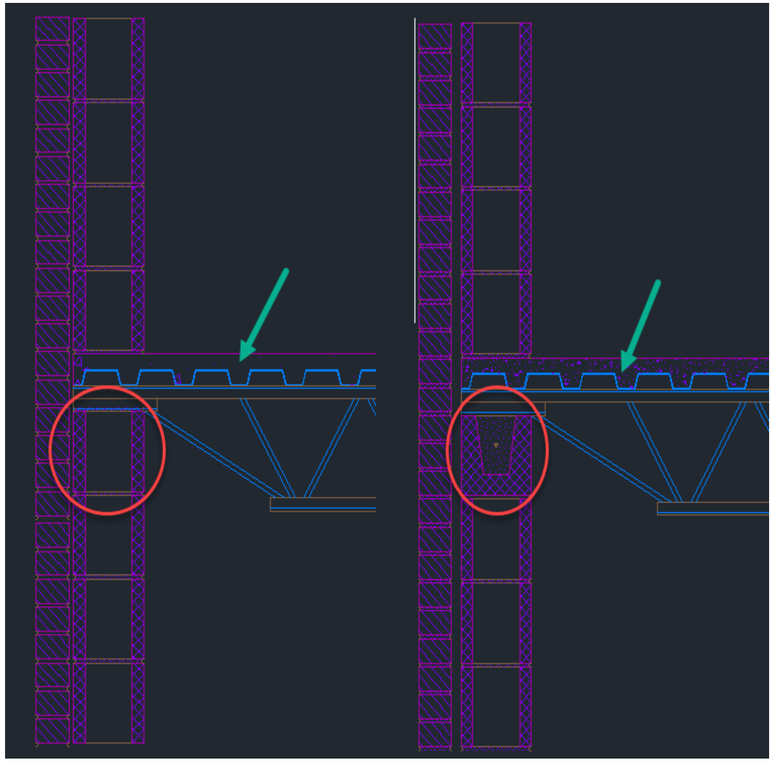
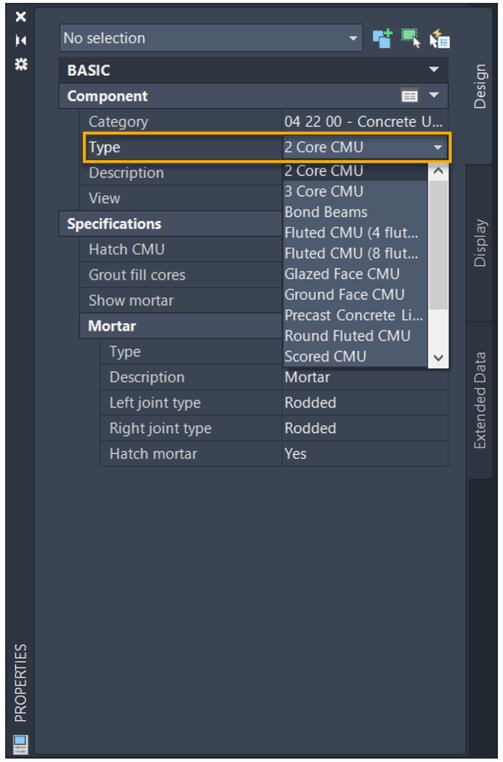


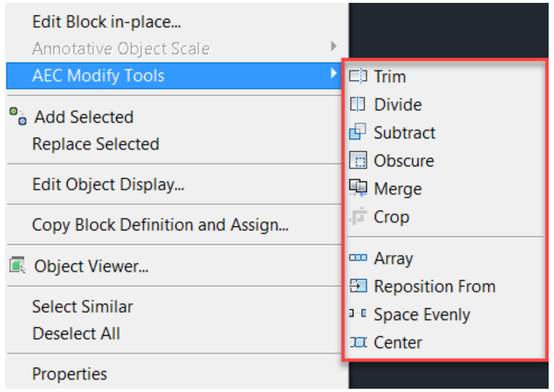
Modify Detail Components

There are three methods to modify detail components in AutoCAD Architecture.

- AutoCAD edit type using REFEDIT command
- Replace item through Property Palette
- AEC Modify Tools







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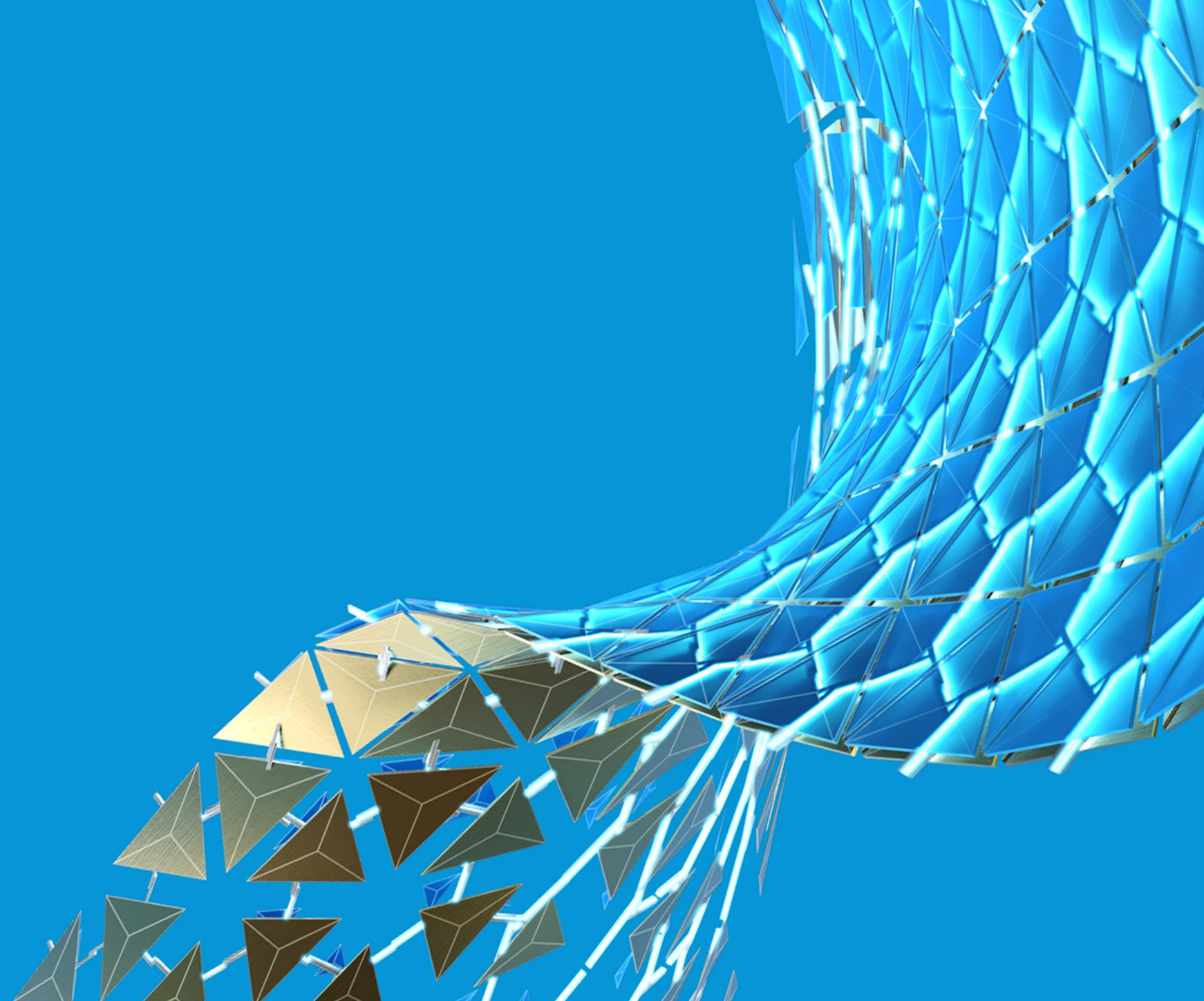
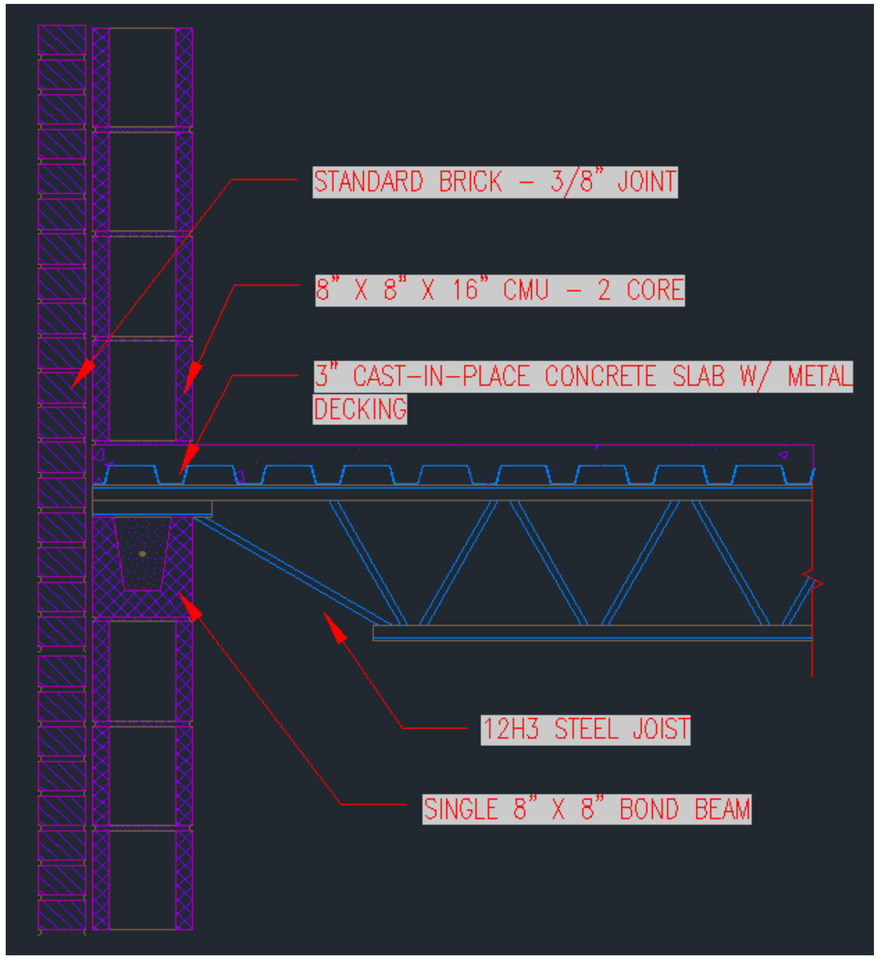


Create Keynotes

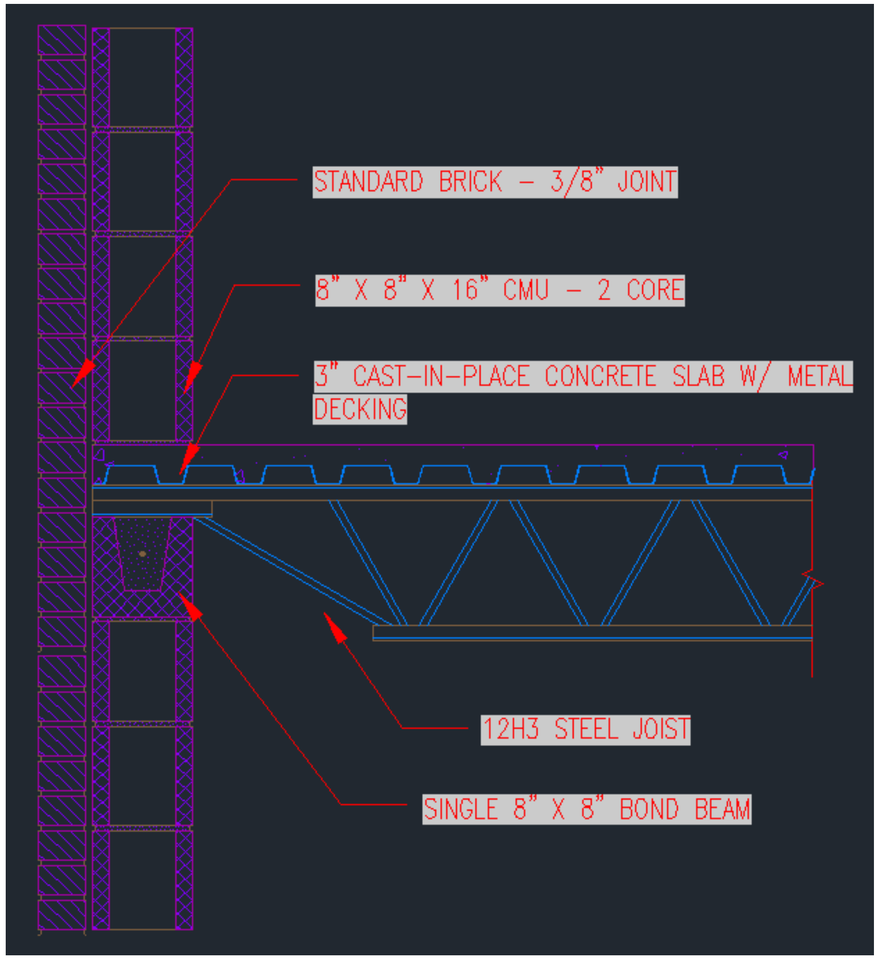
Flexible tool-based method of inserting keynotes that are linked to a keynote database

- Flexible tool-based method of inserting keynotes
- Linked to a keynote database
- Detail Components are accomplished with either Reference or Sheet Keynotes.
- Ability to toggle the format for all keynotes



Annotate detail components

- Text (Straight Leader) tool to annotate
- Annotation are created on the same layer of Keynotes



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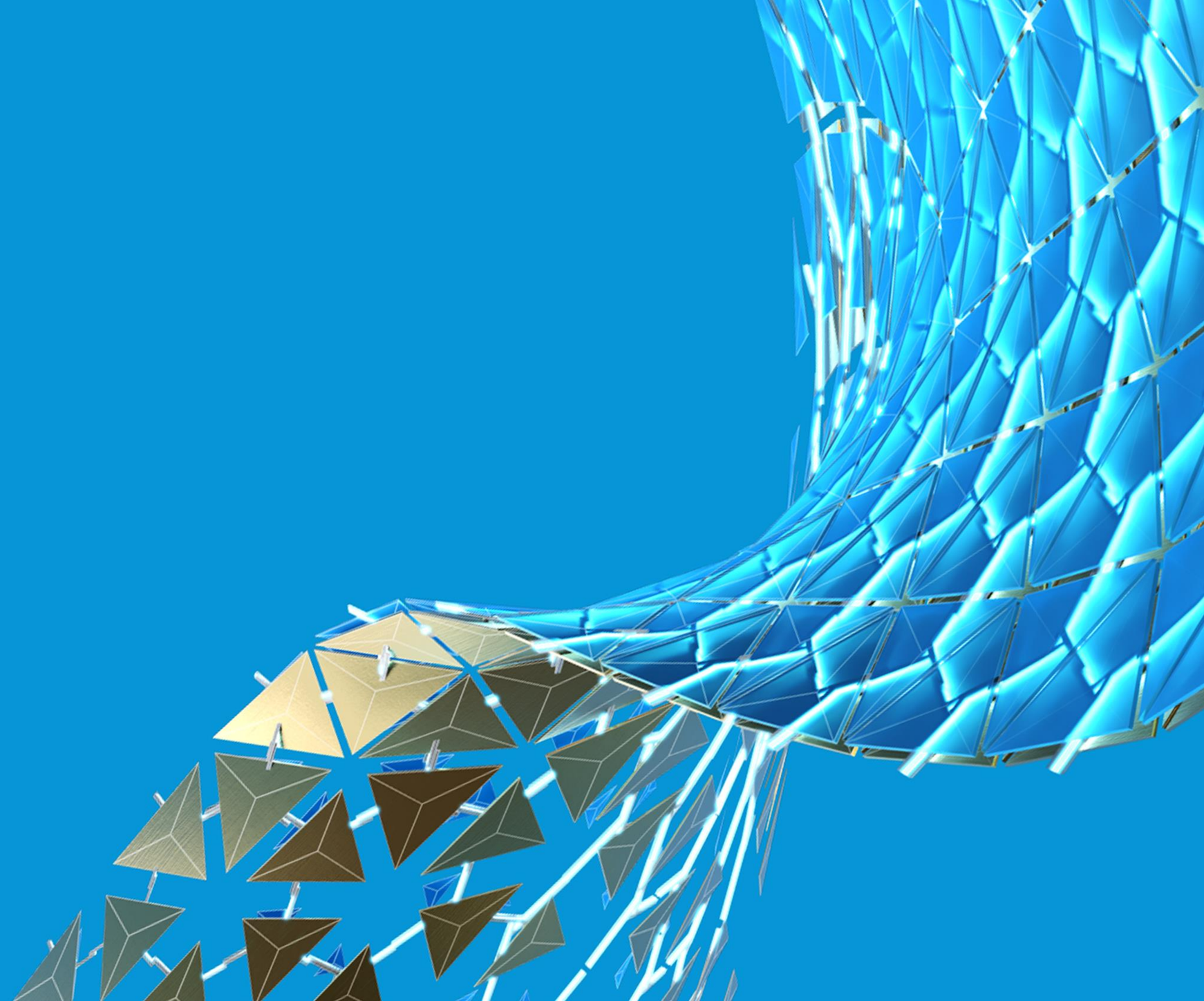
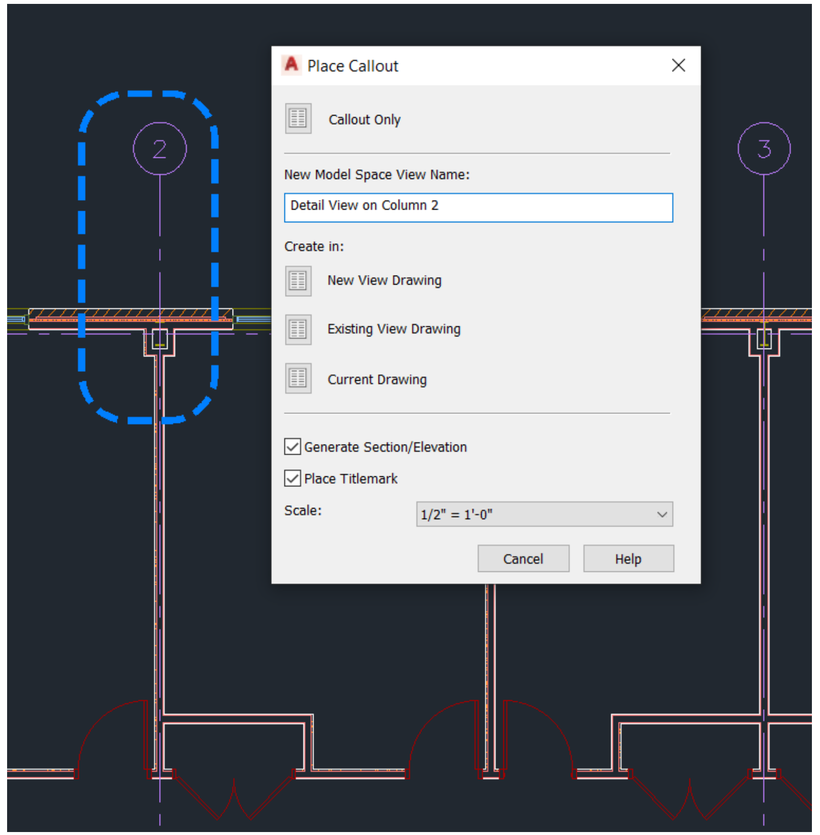


Detail view on Sheets

Create a detail and tie it into part of the building already created.

- Create a Detail Callout
- Create a view using the Callout
- Insert the Detail view in a sheet
- Update the Sheet number in the detail view and sheet.



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