

Bridging The Gap Between CIM and BIM with BIM 360

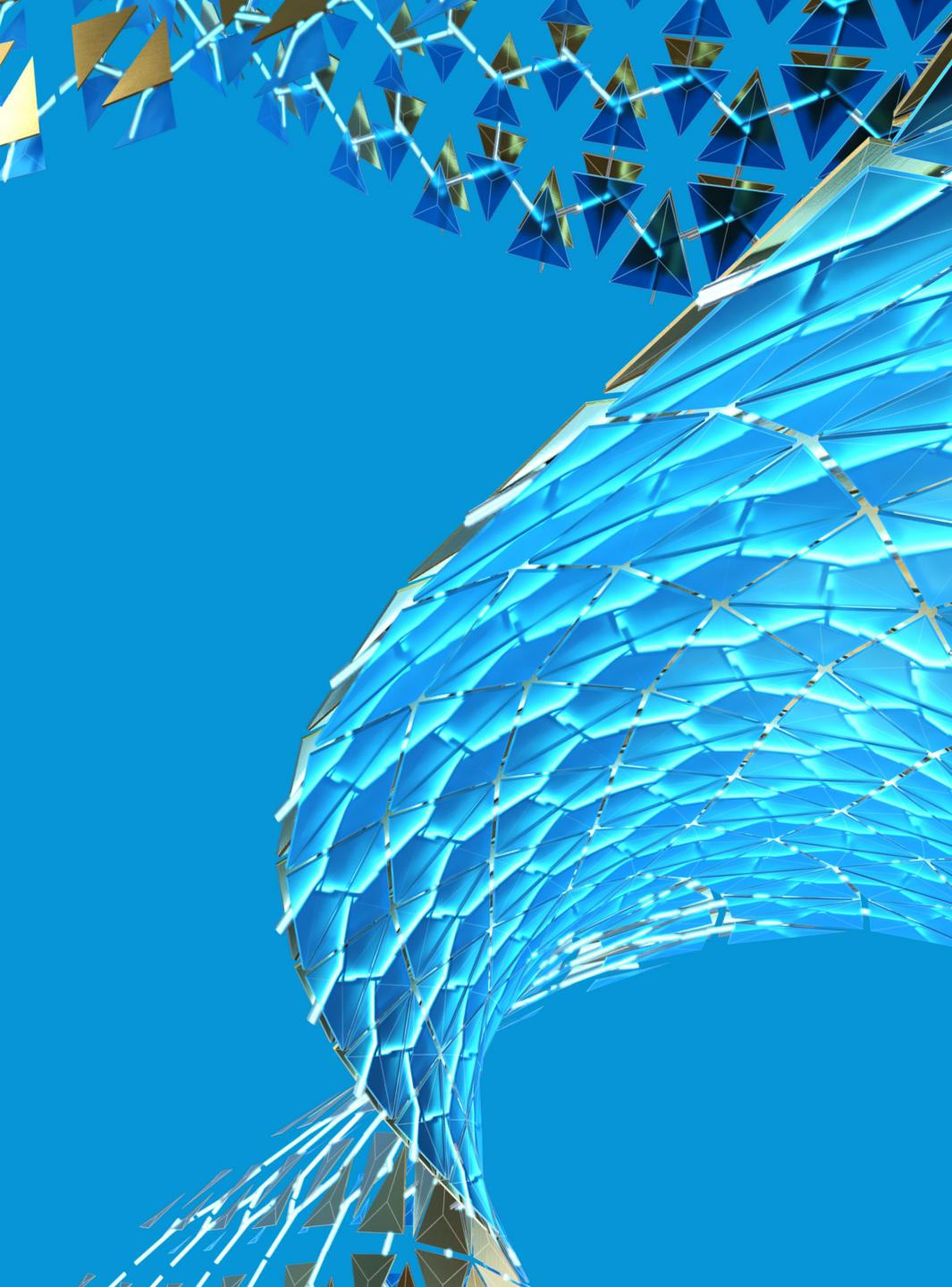
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About the speakers

David Campbell and Kevin Closson

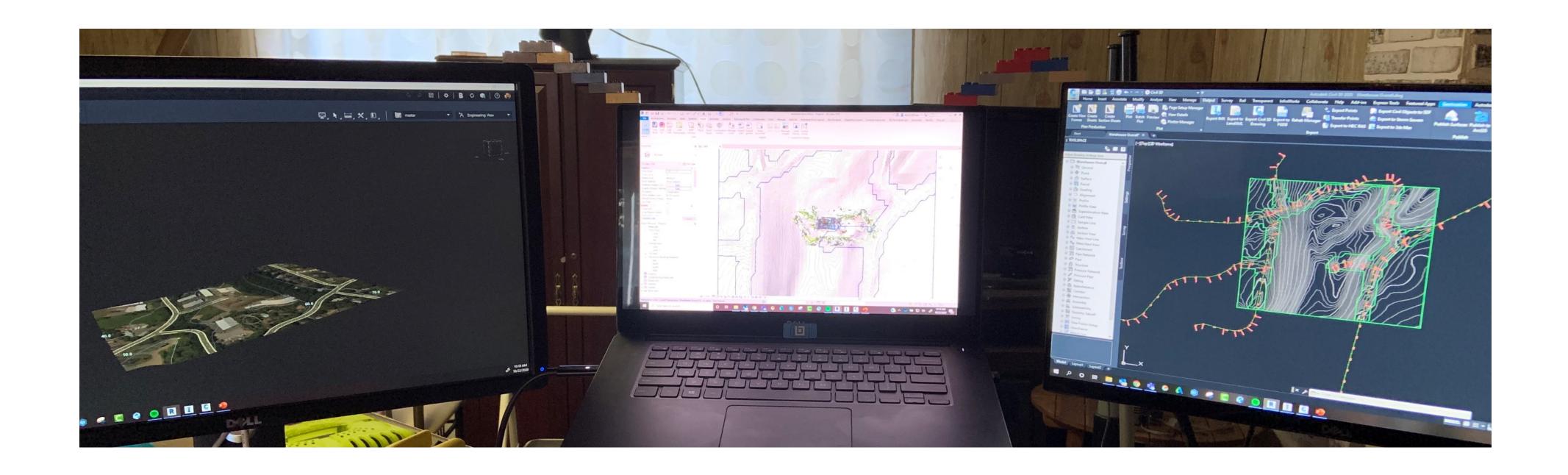
David Campbell and Kevin Closson are Application Specialists with Topcon Solutions. They work with many clients of different backgrounds to implement construction technology software. David is a vertical construction specialist, helping to tie workflows between software and hardware in the field, as well as in the office. Kevin is a horizontal construction specialist, helping to tie Civil Information to those who need it in the office and field.



Bridging The Gap

With our industry ever evolving, the need for real-time project collaboration is at an all time high. It has become evident that we must move away from siloed data efforts and bridge communication gaps between the various disciplines and remote project contributors.

How do we approach this gap, and what can help us alleviate these issues?



Learning Objectives

LEARNING OBJECTIVE 1

Learn about the communication gap between CIM and BIM

LEARNING OBJECTIVE 2

Learn to connect CIM data to BIM workflows

LEARNING OBJECTIVE 3

Learn how to enable collaboration with BIM 360

LEARNING OBJECTIVE 4

Evaluate the value of a Common Data Environment and connected workflows

Breaking down the terms

BIM- Building Information Modeling - "is a process supported by various tools, technologies and contracts involving the generation and management of digital representations of physical and functional characteristics of places. Building information models (BIMs) are <u>computer files</u> (often but not always in proprietary formats and containing proprietary data) which can be extracted, exchanged or networked to support decision-making regarding a built asset. BIM software is used by individuals, businesses and government agencies who plan, <u>design</u>, <u>construct</u>, operate and maintain buildings and diverse <u>physical infrastructures</u>." – Wikipedia

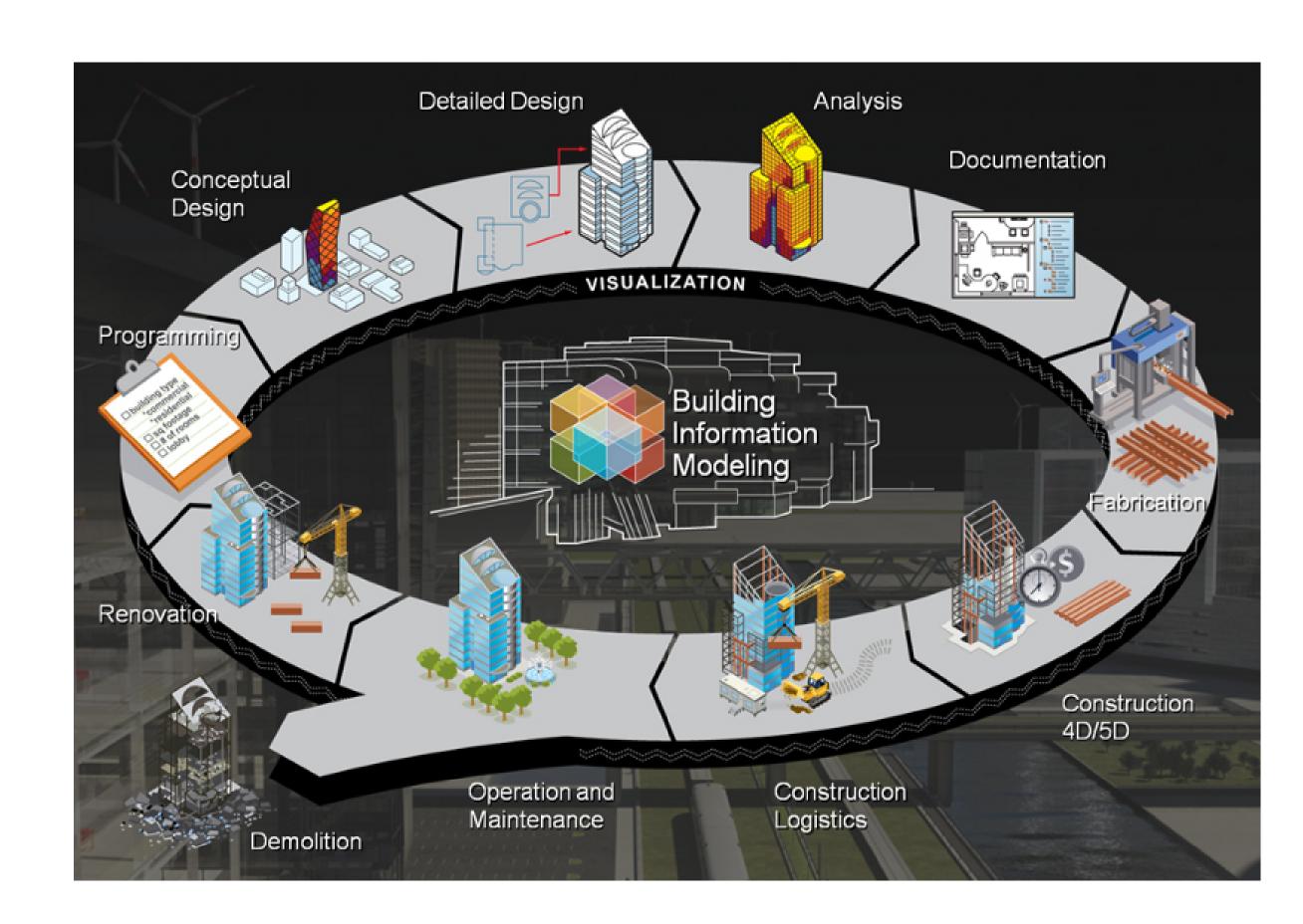
CIM – Civil Information Modeling - CIM is like BIM but more appropriately suited to horizontal projects such as roadways or tunnels. CIM enables stakeholders to come together and work on a set of 3D or 2D models. This creates an interactive project with real time collaboration. In addition, CIM technology can be used throughout the entire life cycle of construction.

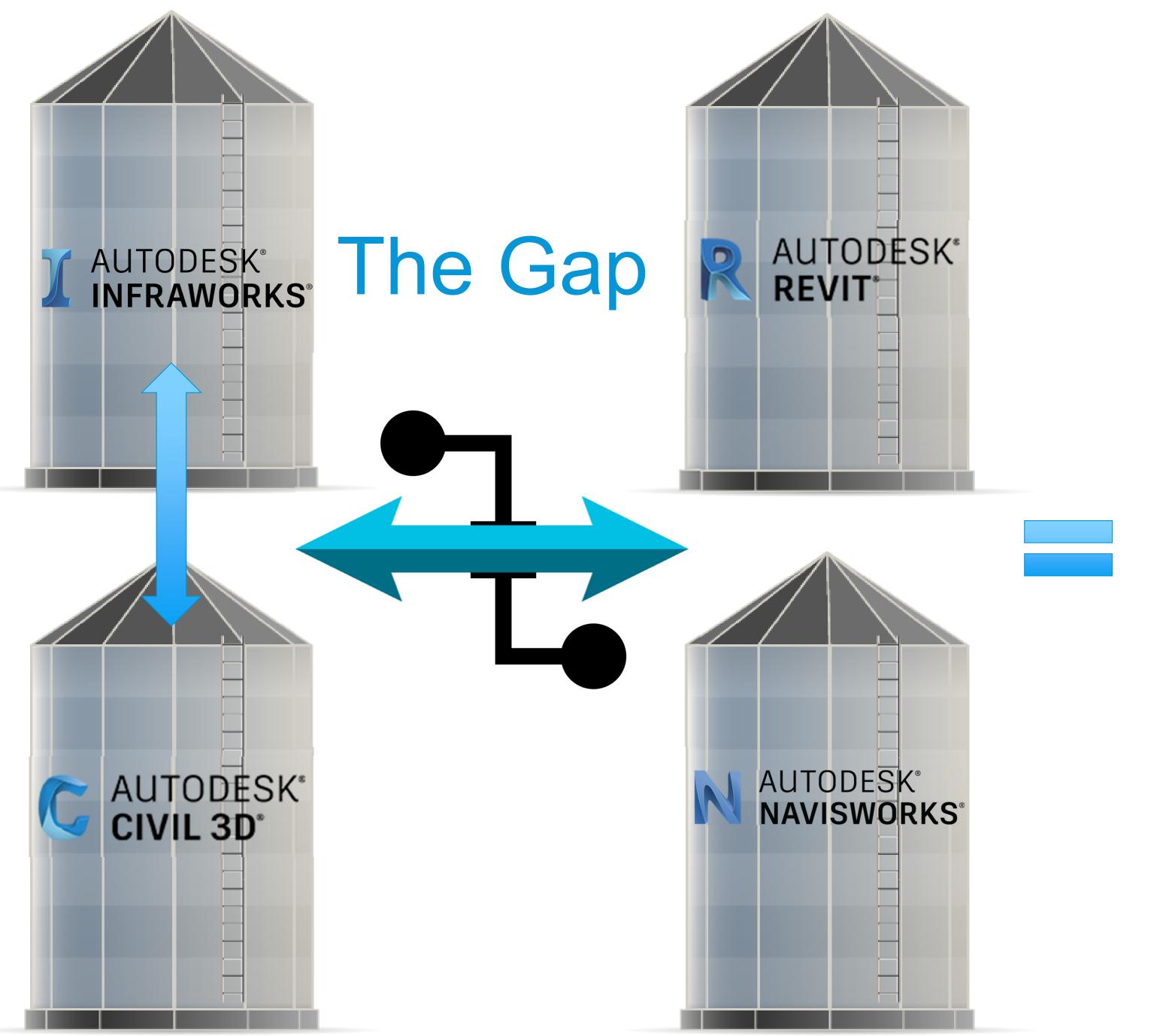
CIM – Construction Information Modeling – I believe this term fully incorporates both the civil space as well as the building space. The goal of CIM is to connect all processes for the common goal of a successful construction project. A construction project has so much more to it than the physical building and the changes associated, it all starts from the ground up.

Project lifecycle

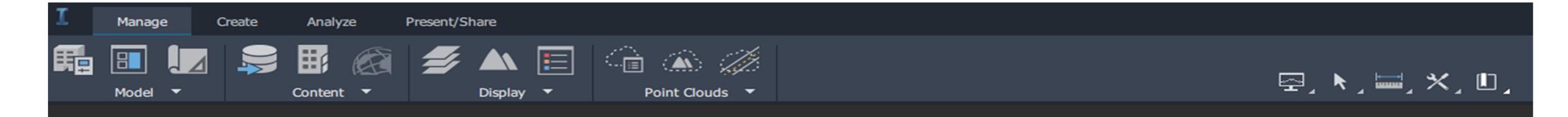
- A typical construction project will consist of many different phases.
- A building's lifecycle doesn't end until Demolition.

- Is documentation for the site updated frequently?
- How is this information managed?

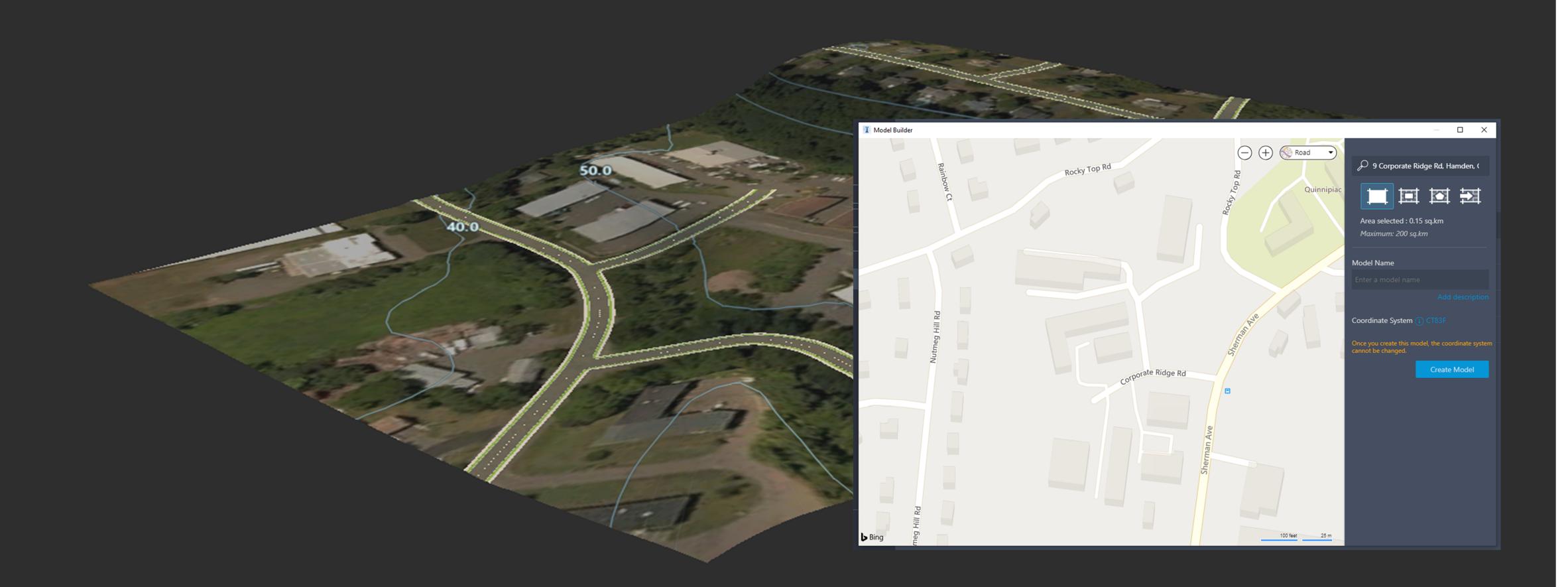


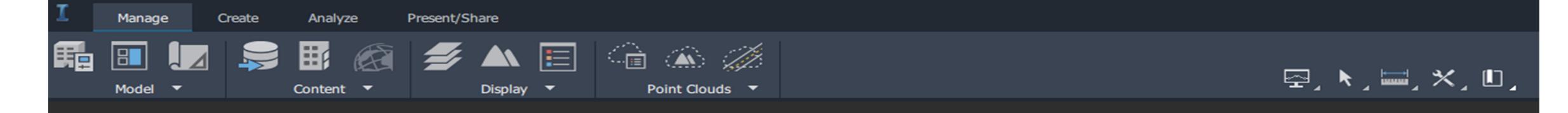




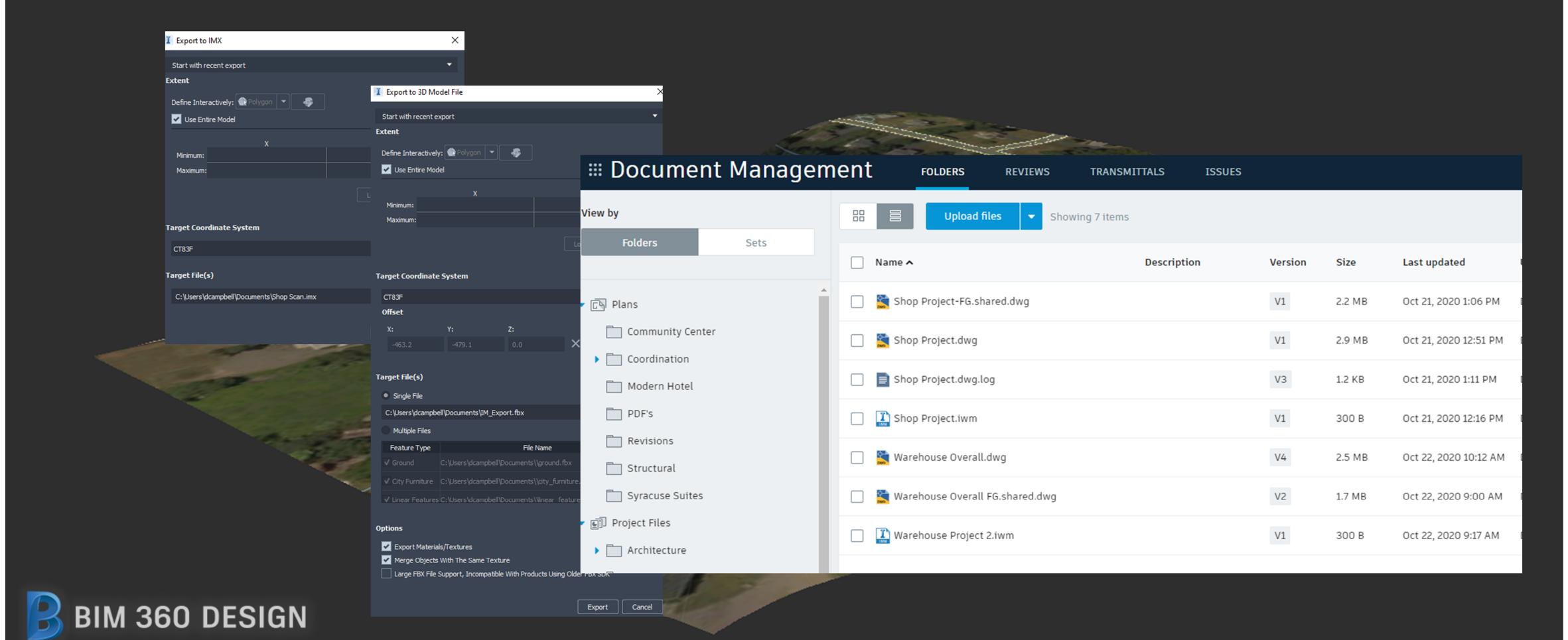


Integration: InfraWorks

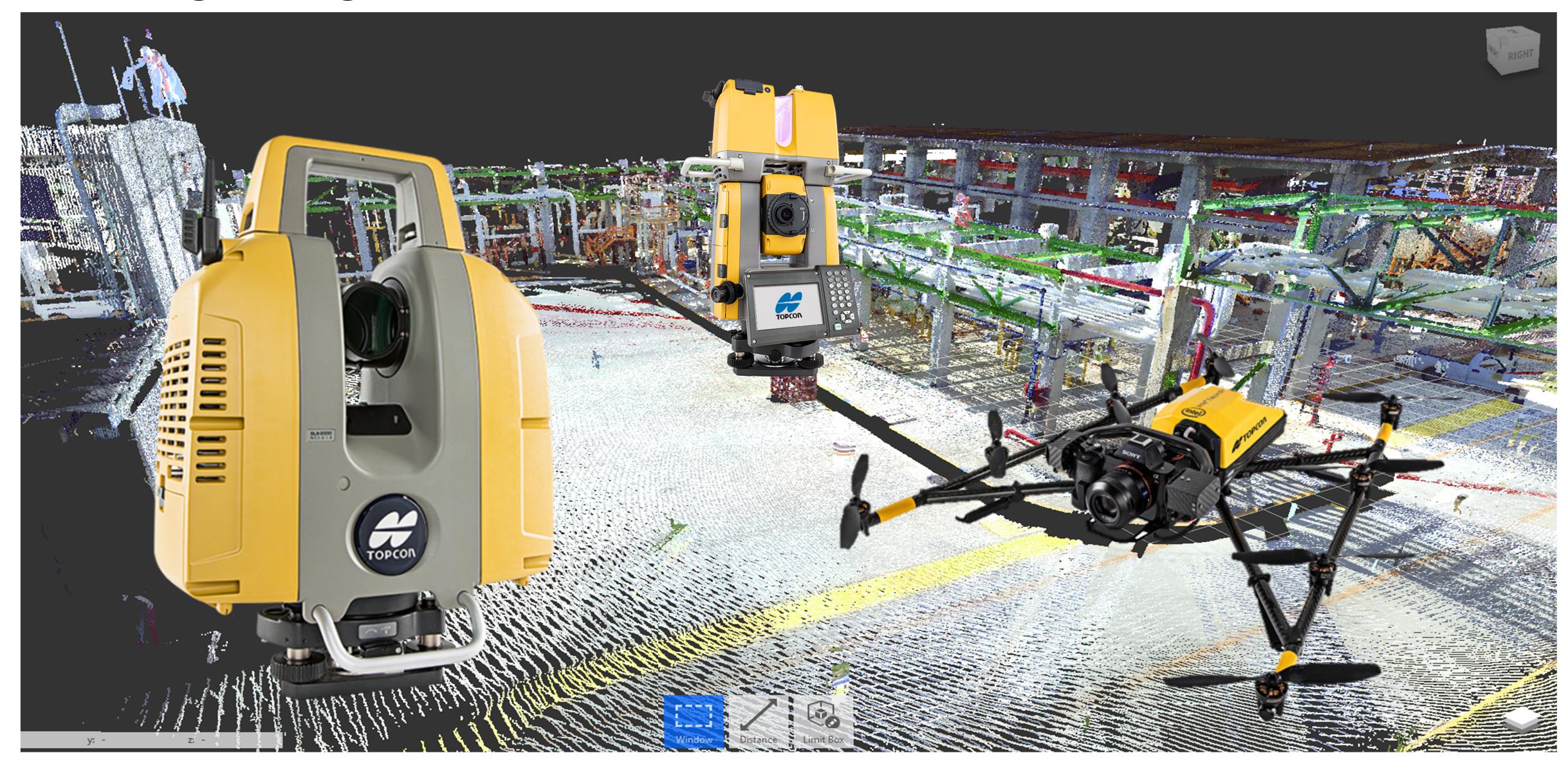




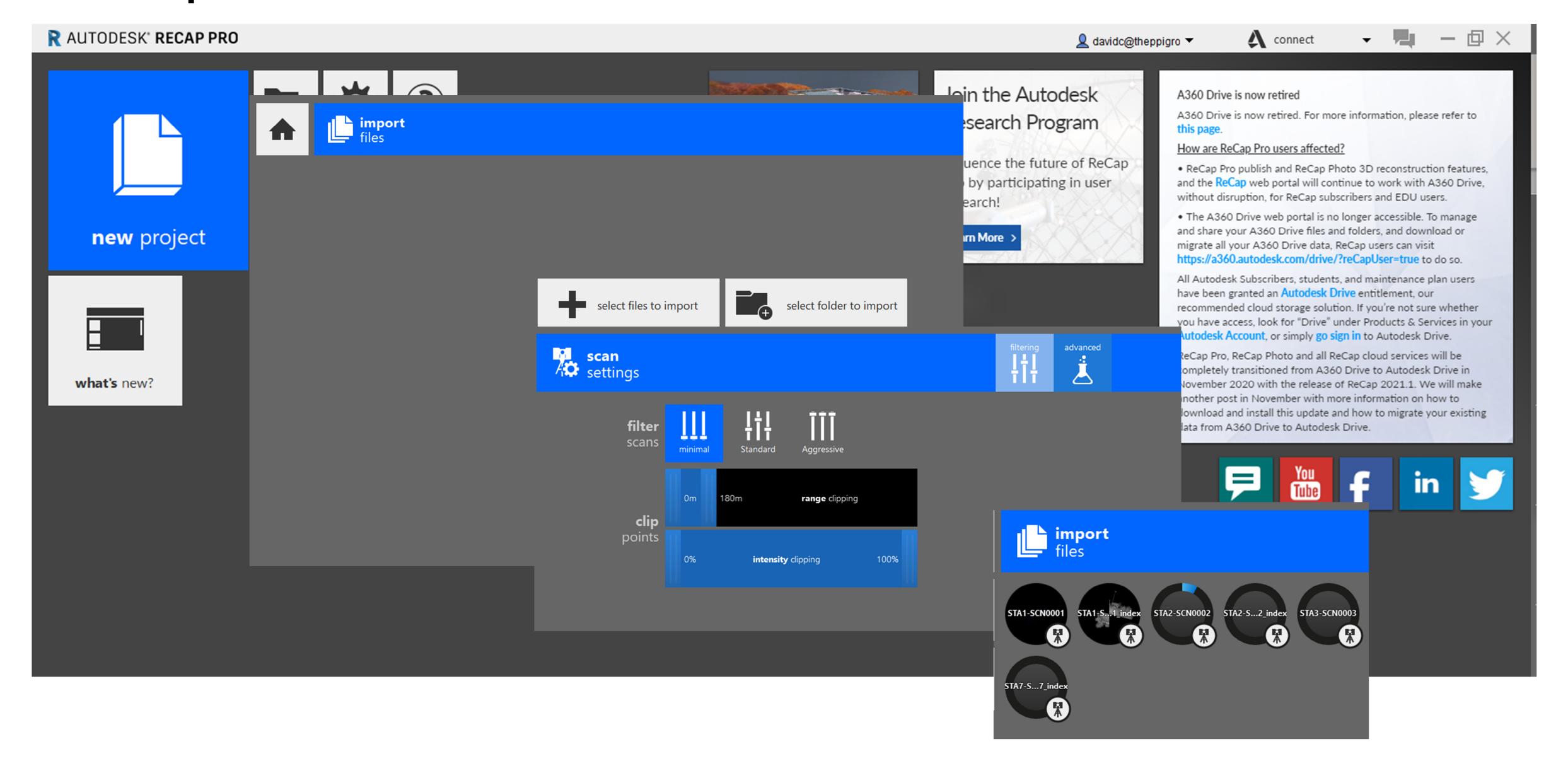
Integration: InfraWorks



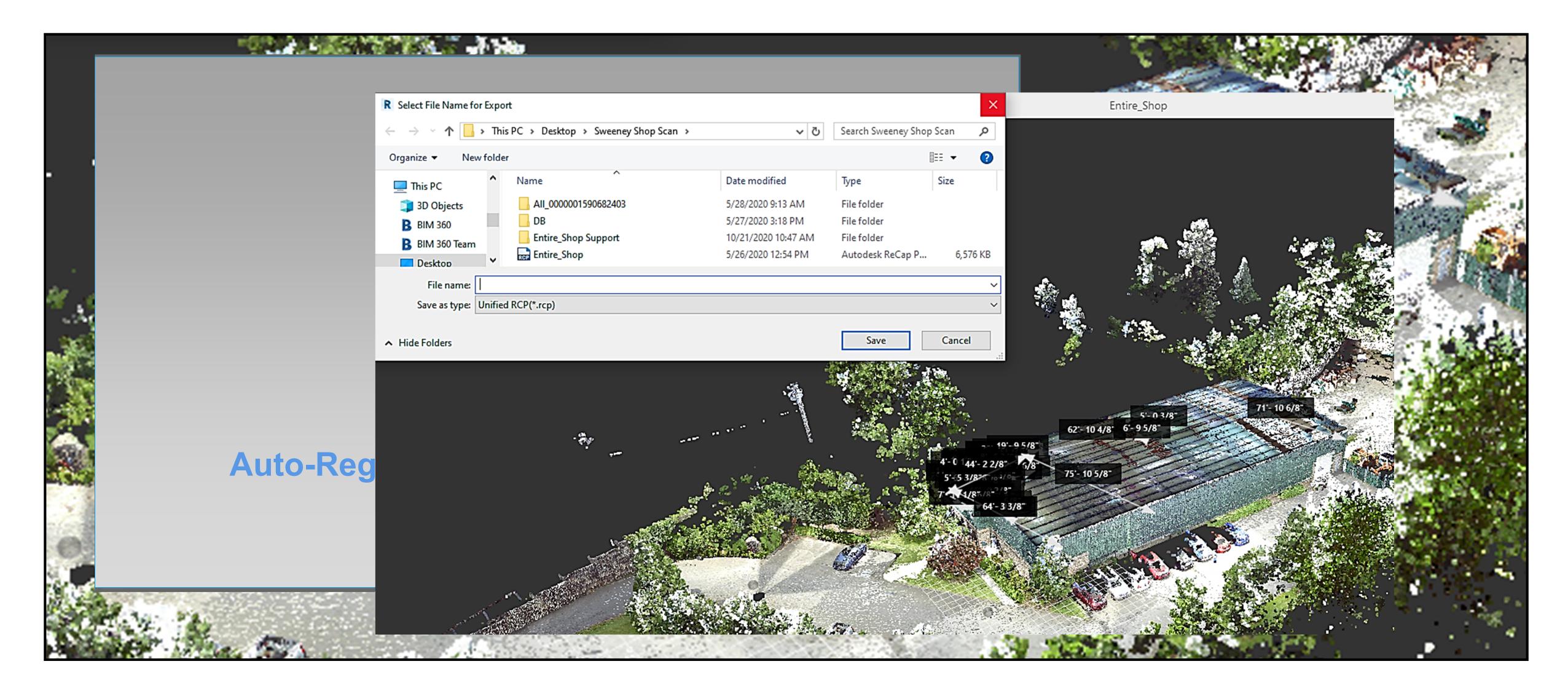
Strengthening Our Model...



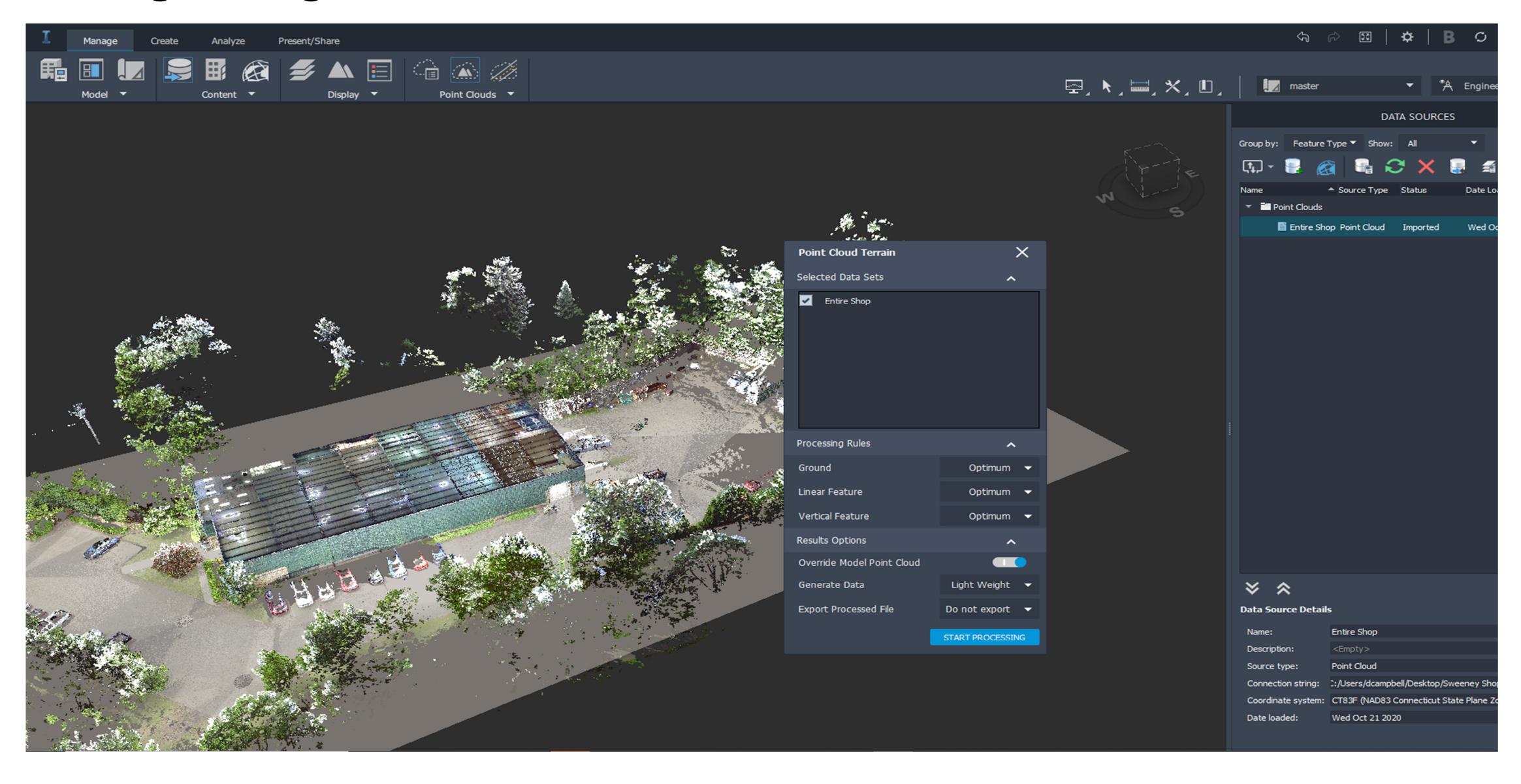
Recap Pro



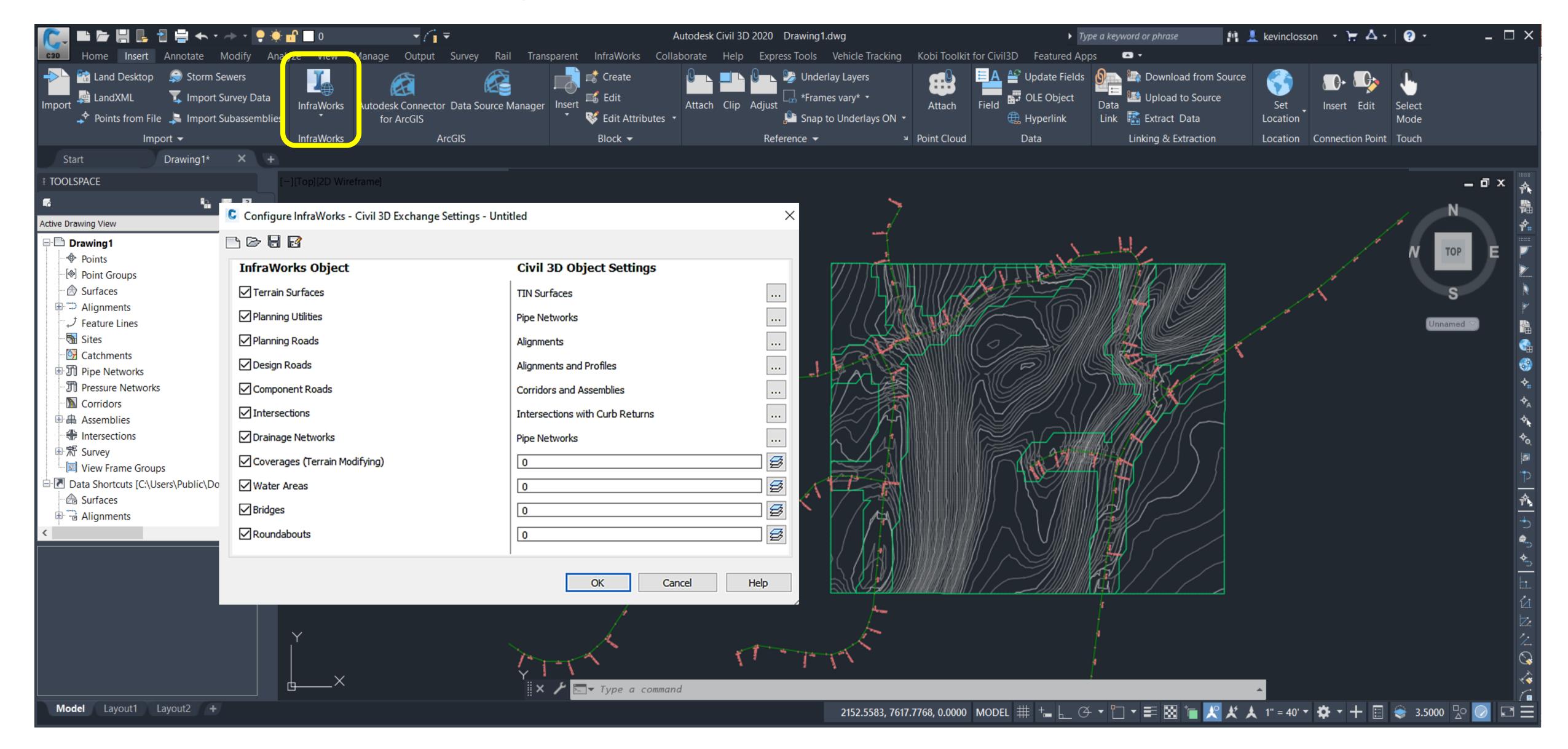
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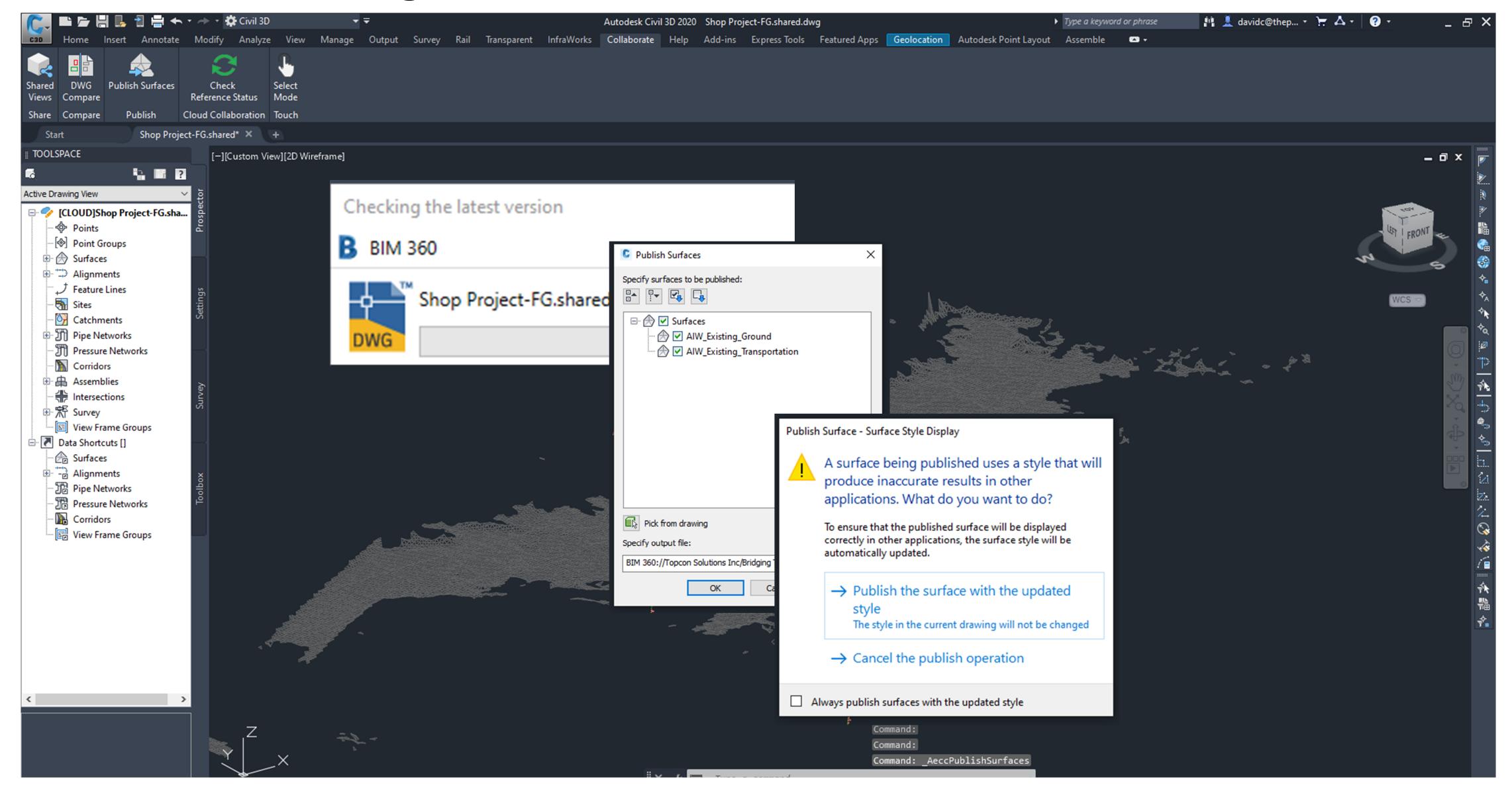
Strengthening Data



Civil 3D: Import Configuration

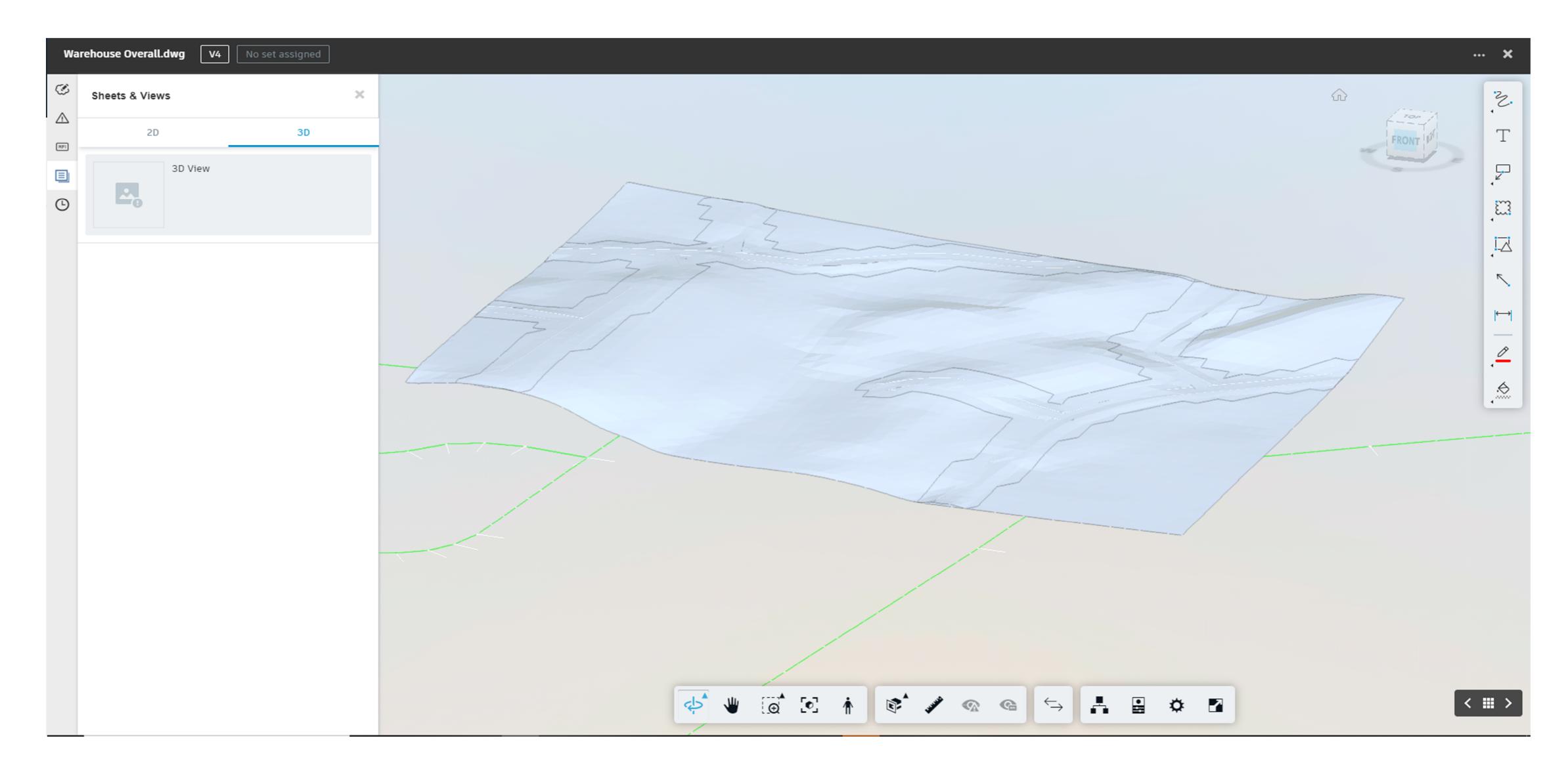


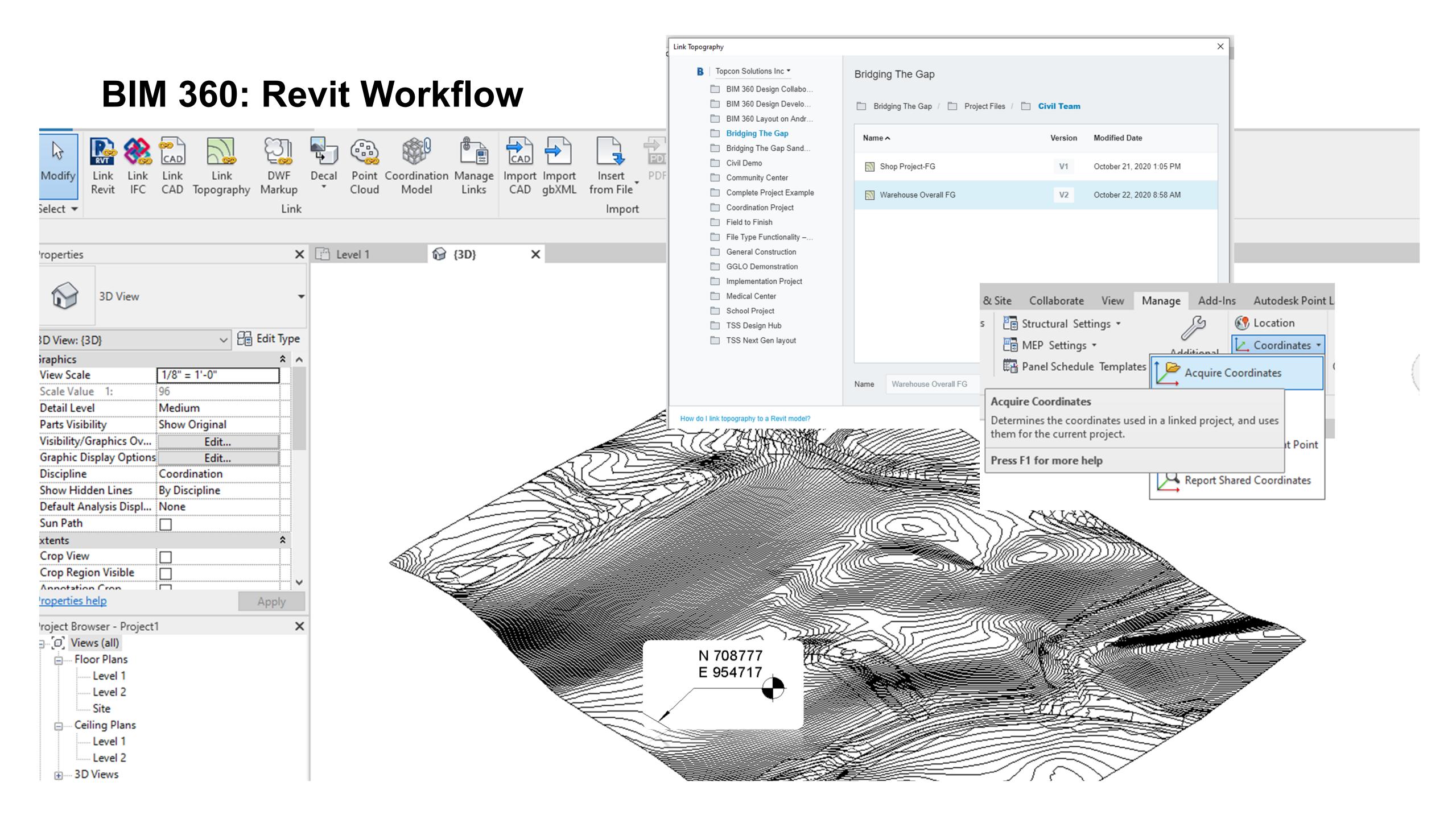
BIM 360: Publishing Process

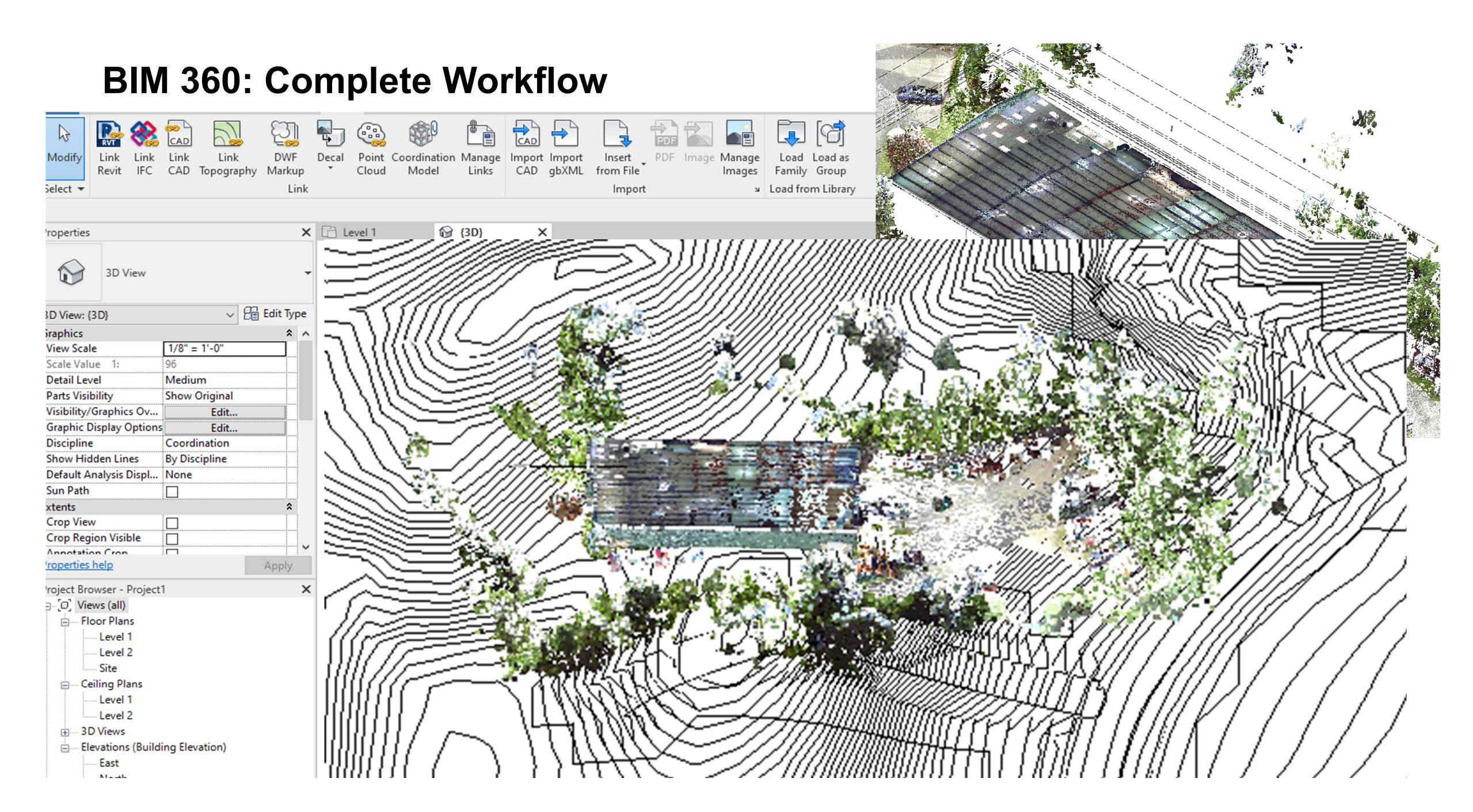


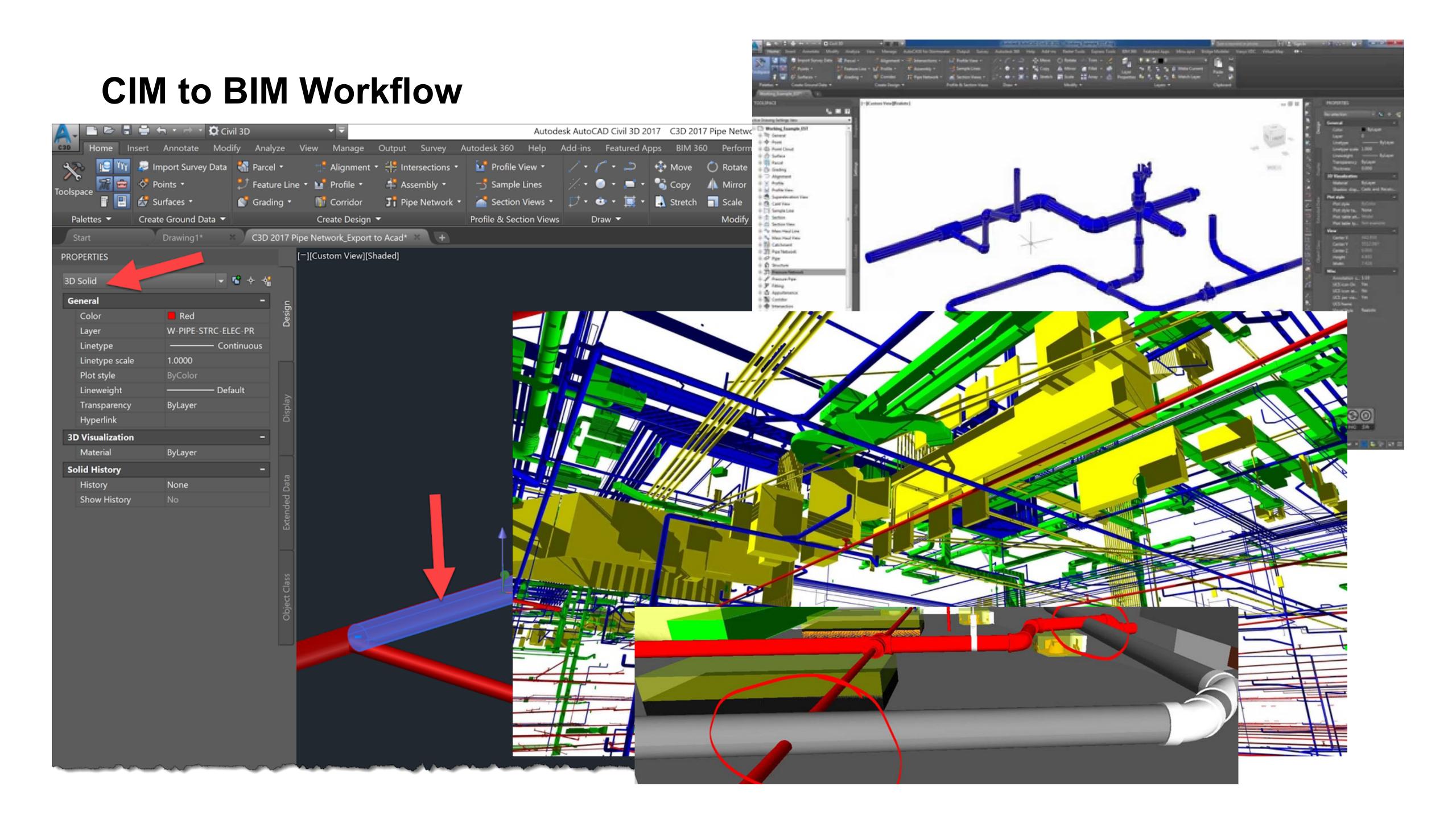
CIM – BIM Workflows

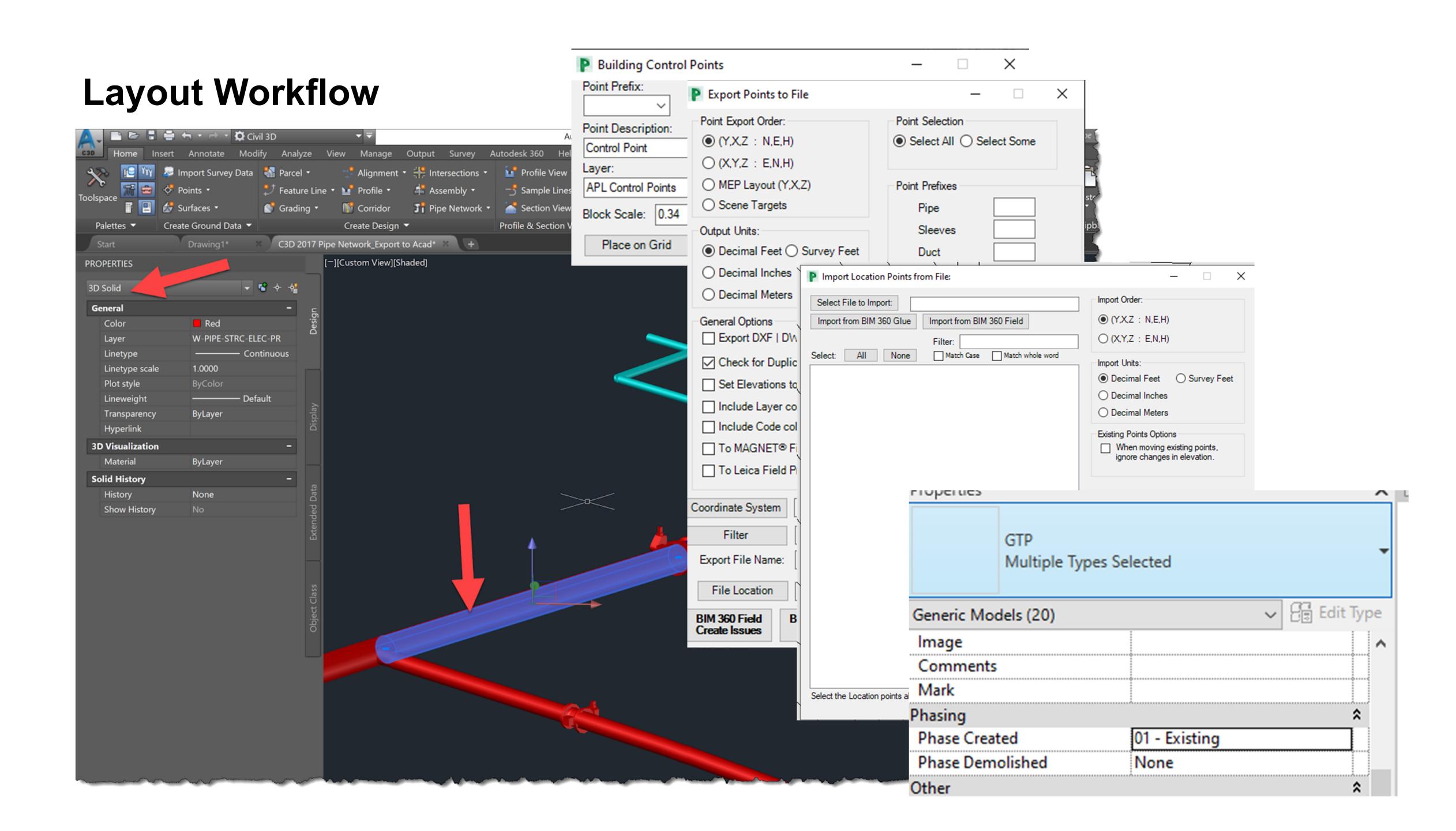
BIM 360: Common Data Environment



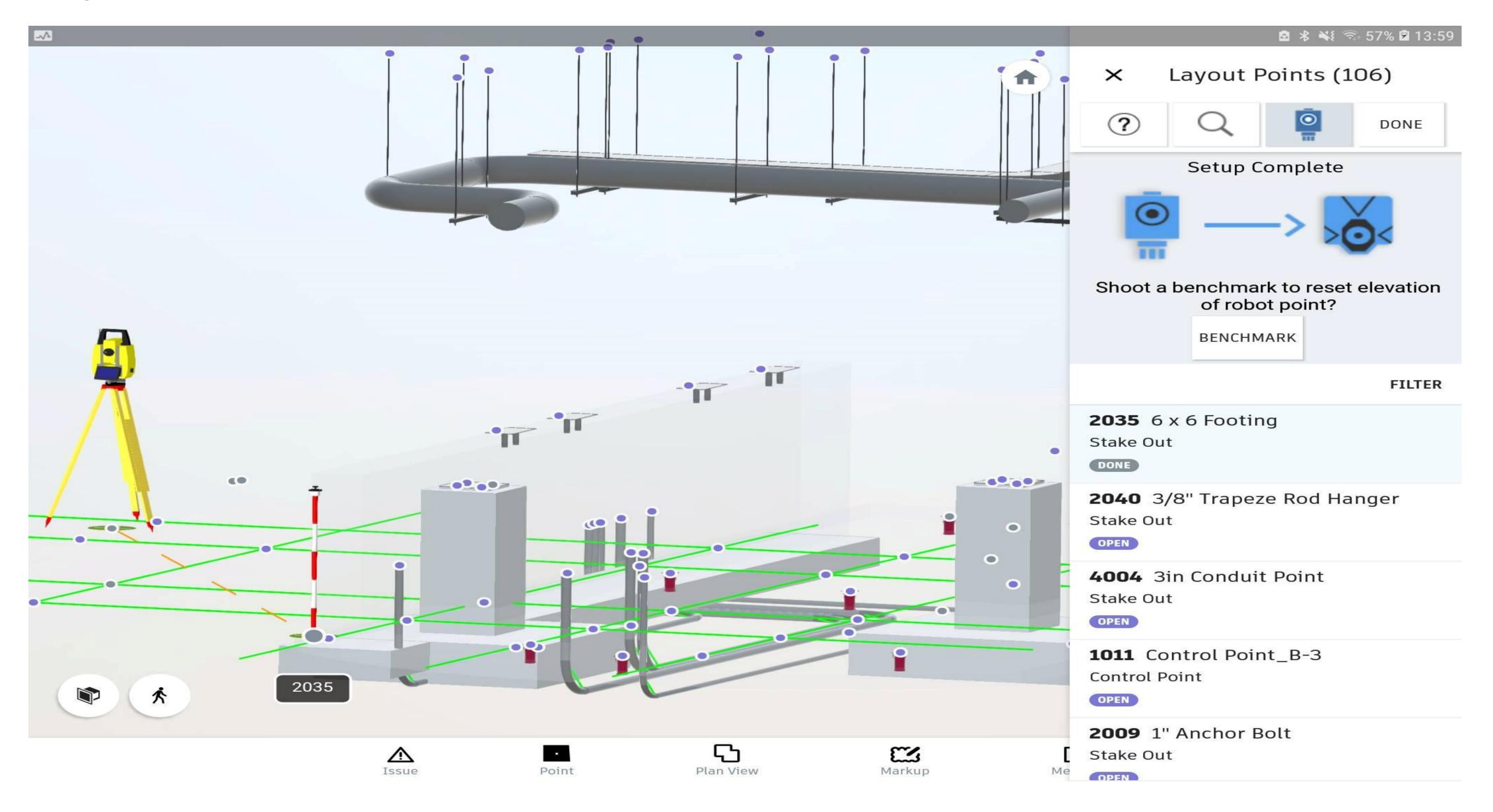




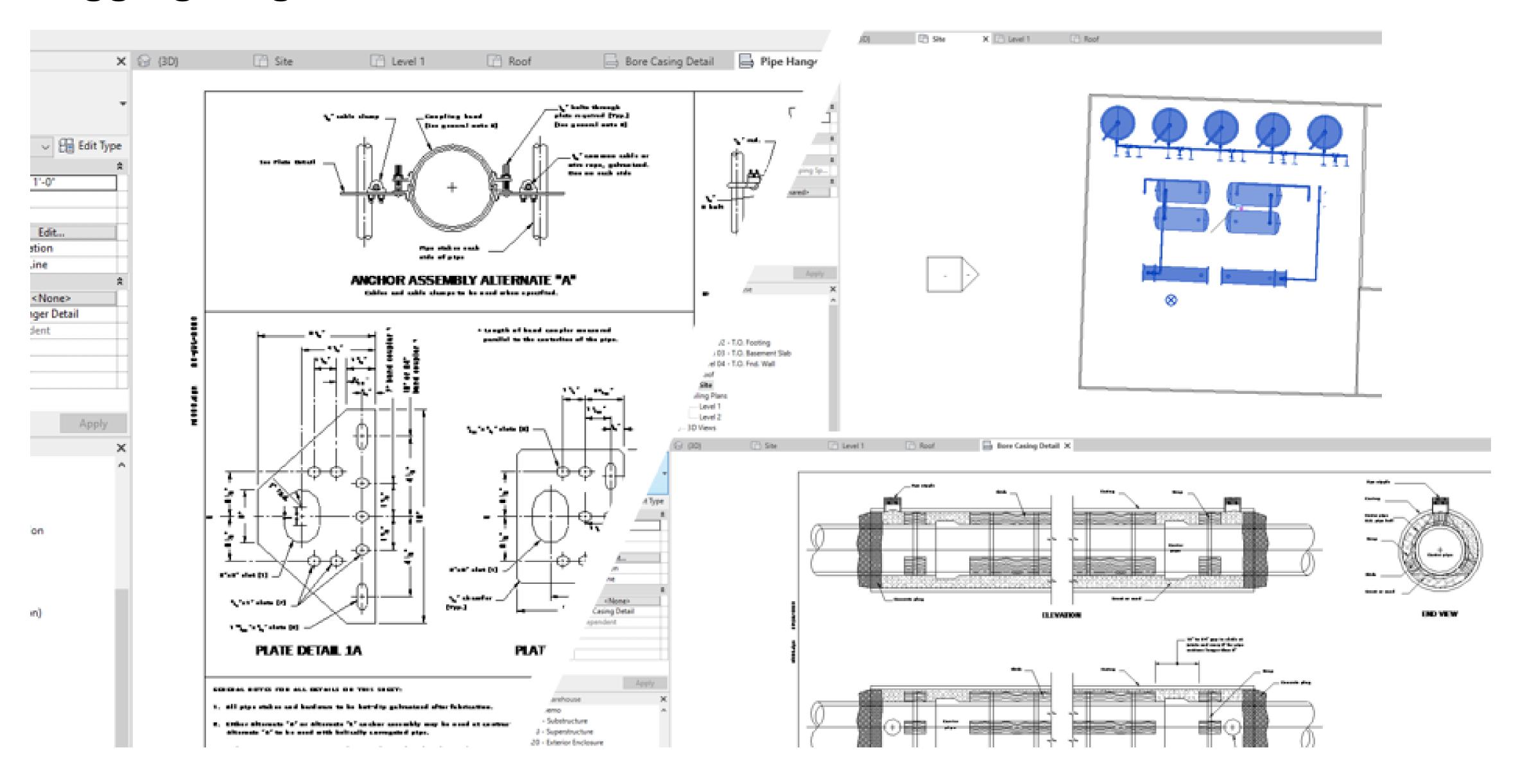




Layout Workflow



Aggregating Data



Civil Space



Building Space

Construction



Thank you for joining us!

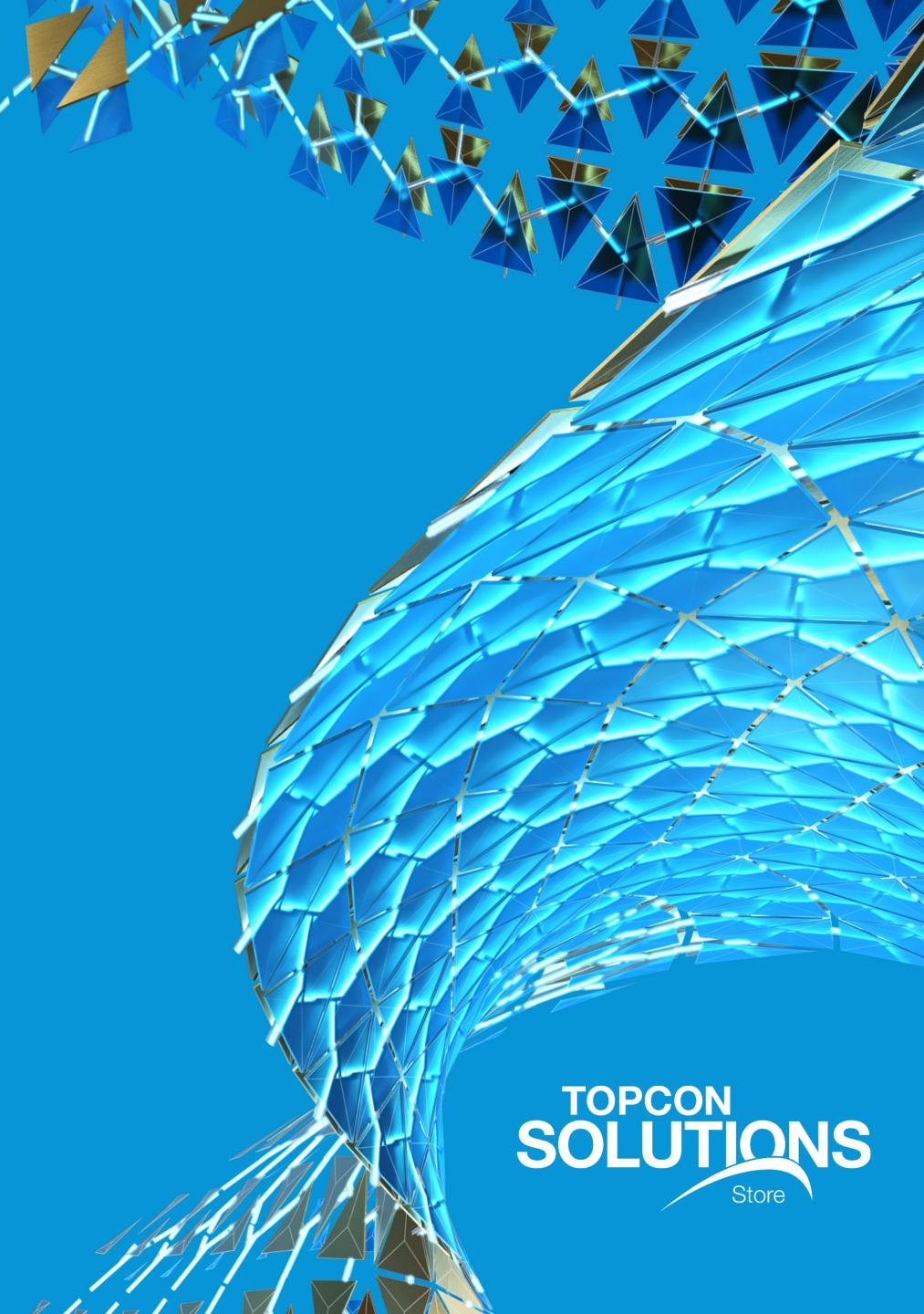
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