

BIM 360 Design Roundtable:

An Open Discussion with Industry Leaders

BES323074-R

AECOM Matthew Anderle, BIM Director (B+P Americas)

AECOM Katherine Crowley, Project Coordinator

SMITHGROUP Matt Turner, BIM Technologist

 **AUTODESK®** Dan McLean, BIM 360 Implementation
Consultant, Global Services

 **AUTODESK®**
UNIVERSITY



About the speaker

Matthew Anderle, AECOM

Matthew Anderle is the Building Information Modeling (BIM) Director for the Buildings+Places Americas business line of AECOM. He is a BIM and technology evangelist with over 18 years of experience establishing global BIM workflows and standards around content, computational BIM, interoperability, and BIM consultation as a service. His experience spans over multiple market sectors with emphasis on large healthcare facilities, data centers, aviation, government projects, and science facilities. Mr. Anderle serves AECOM as a leader in the advancement and efficient implementation of BIM processes for a variety of project types. He manages and directs large distributed project teams to successfully implement BIM collaboration workflows, enabling global offices to work as one entity.

About the speaker

Katherine Crowley, AECOM

Katherine Crowley is a project coordinator, healthcare research associate, and publisher at AECOM. As project coordinator she works closely with project teams to align their needs with their responsibilities while acting as a single-point-of-contact for internal project communications. Ms. Crowley assists project teams to leverage the latest technology in order to deliver comprehensive design solutions in the most efficient manner possible.





About the speaker

Matt Turner, SmithGroup

Matt Turner is a BIM Technologist for SmithGroup. He has 19 years of experience. Mr. Turner guided SmithGroup's engineering disciplines through the migration to BIM and supports distributed teams in the completion of large projects throughout the nation and around the world.

About the speaker

Dan McLean, Autodesk

Dan McLean is a BIM 360 Implementation Consultant, Global Services at Autodesk.



A Conversation About Collaboration

- Introduction
- Getting Started
- PDFs, Sets, and Markups
- Leveraging Metadata
- New Features

Team Poll

Snap QR code at right

Visit:
Pollev.com/manderle777

Text:
[manderle777](#) to 22333
(once to join the poll)



Project Complexities

About the Project:

A Joint Venture Team Designing a Medical Center Campus

17
FIRMS

122
MODELS

12
BUILDINGS

04
**HOSTING
METHODS**

About the Project:

A Joint Venture Team Designing a Medical Center Campus



Each with different levels of data exchange capabilities, model hosting and experience

282 unique users including:

- Project Executives
- Discipline Leads
- Quality Managers
- Trade Specialists
- BIM Team
- Specification Writers
- Cost Estimators

A variety of file types including:

- Autodesk Revit
- Microsoft Excel
- Microsoft Word
- Adobe InDesign
- Adobe Acrobat
- Bluebeam
- Proprietary software

About the Project:
A Joint Venture Team Designing a Medical Center Campus

Model schema organized by:



CAMPUS

BUILDING

DISCIPLINE

SUB-DISCIPLINE

AGGREGATE MODELS

About the Project:
A Joint Venture Team Designing a Medical Center Campus

12
BUILDINGS

PARKING Multiple Out Buildings
GARAGE Multiple Out Buildings
MAINTENANCE BUILDING Multiple Out Buildings
HOSPITAL
Central Utility Plant
Laundry Facility Main Guard Station
WATER TOWER
PARKING
GARAGE

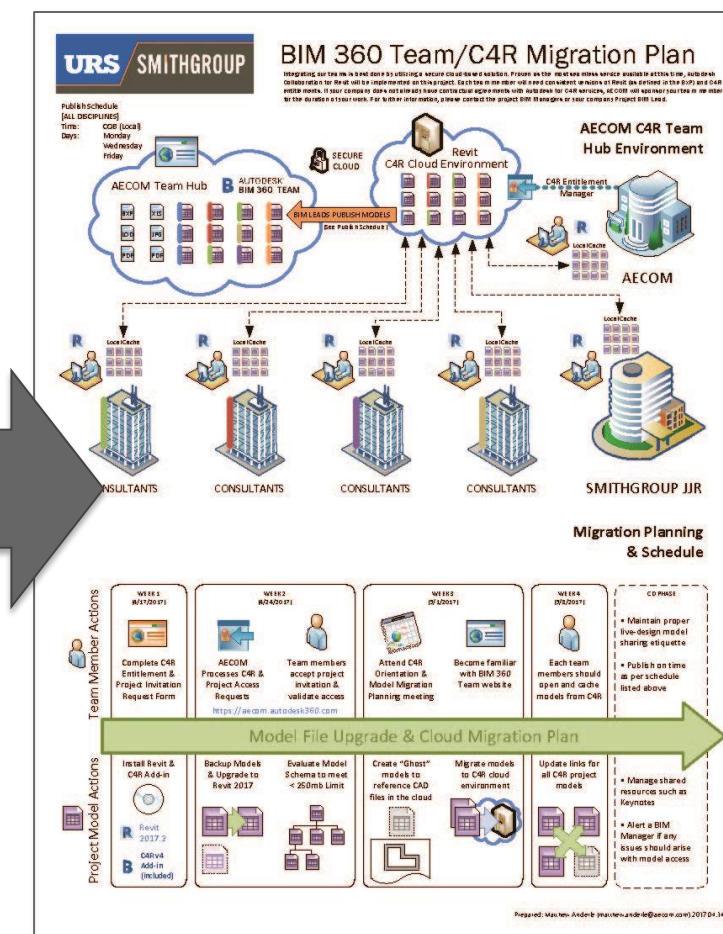
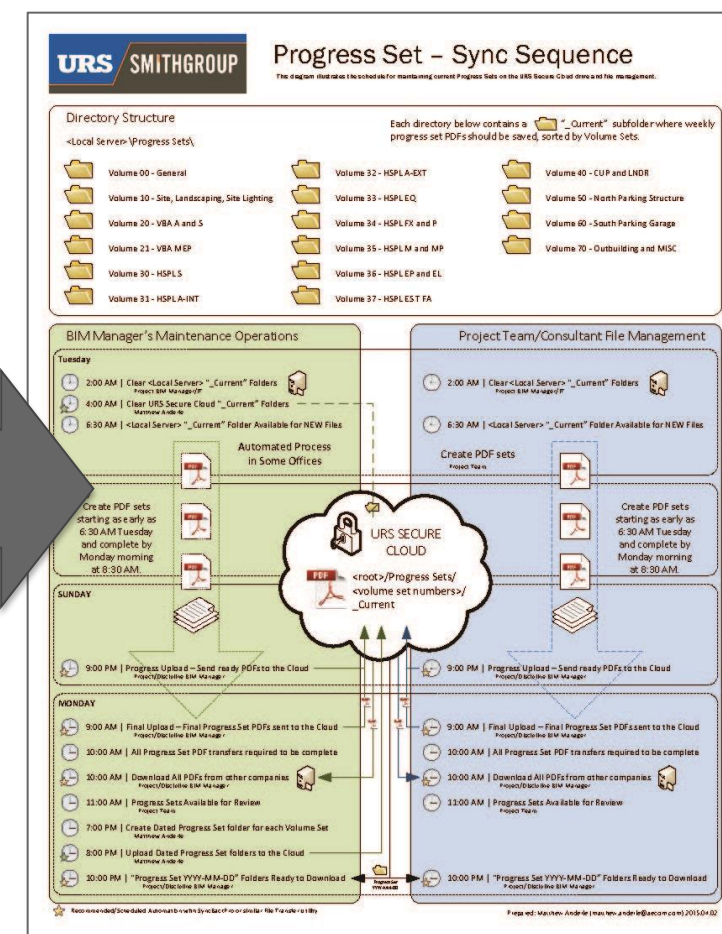
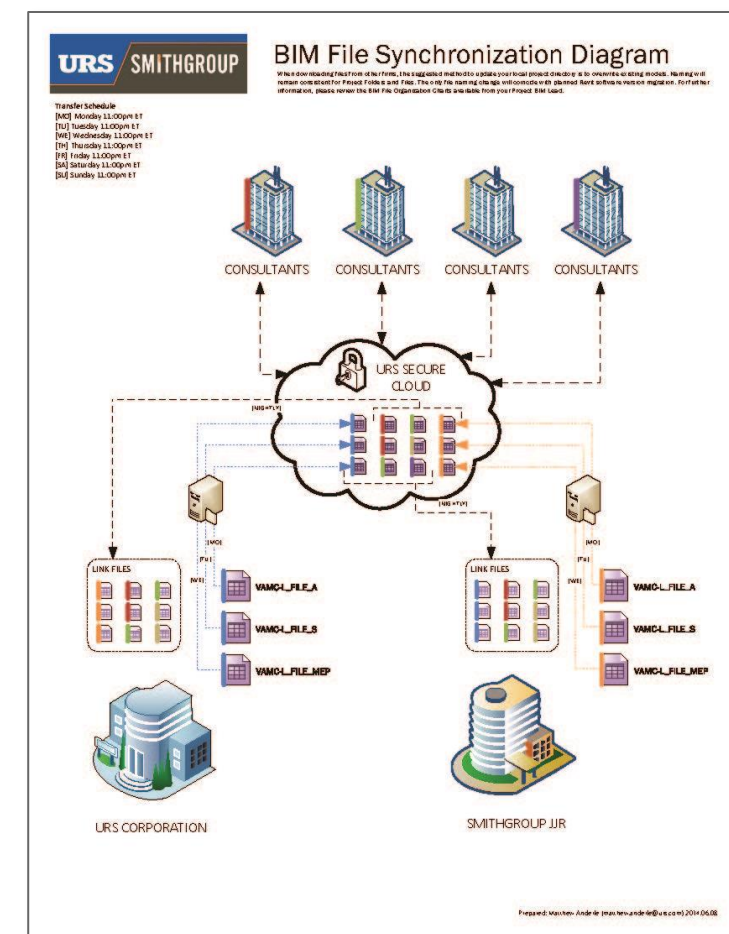
About the Project:

A Joint Venture Team Designing a Medical Center Campus

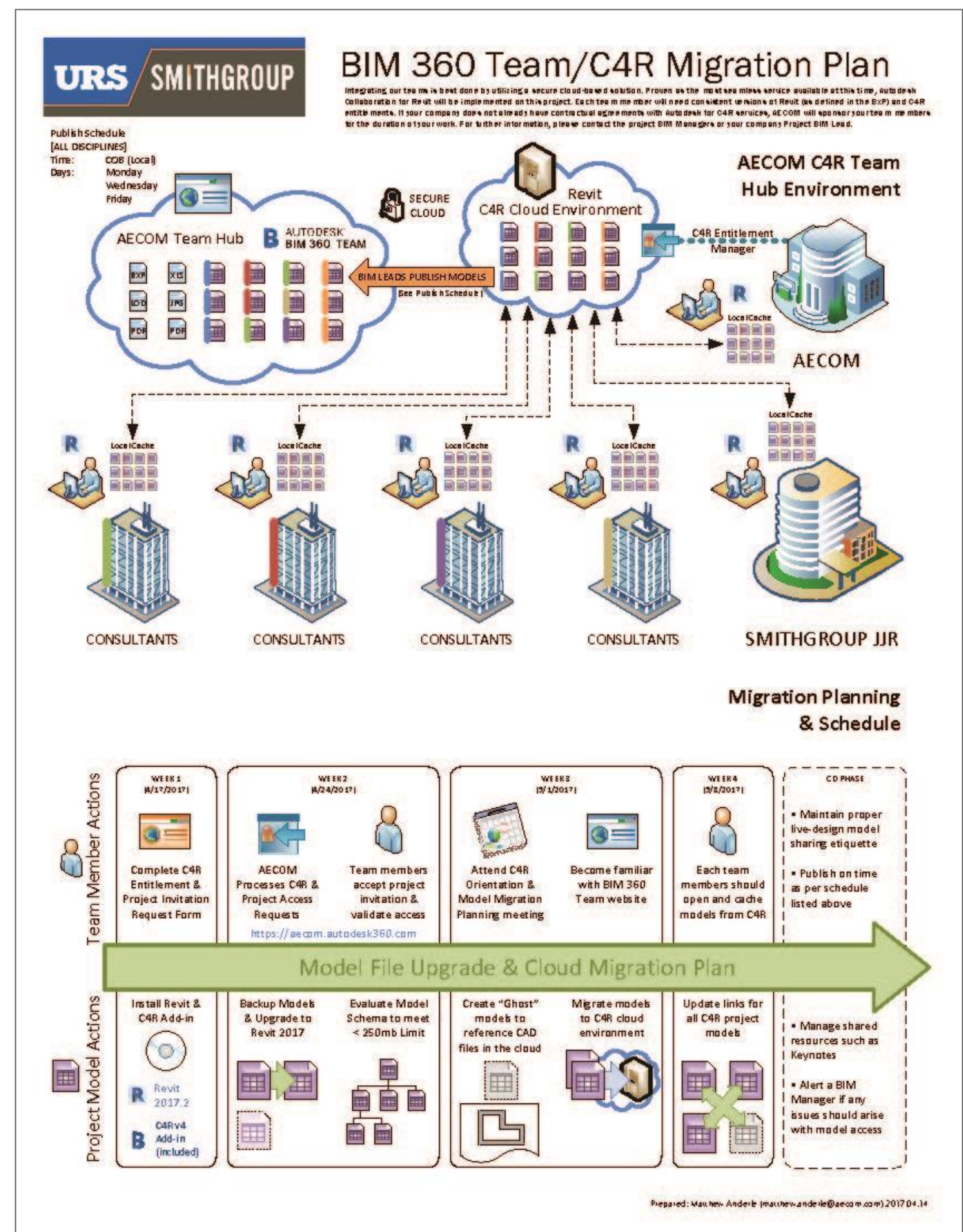
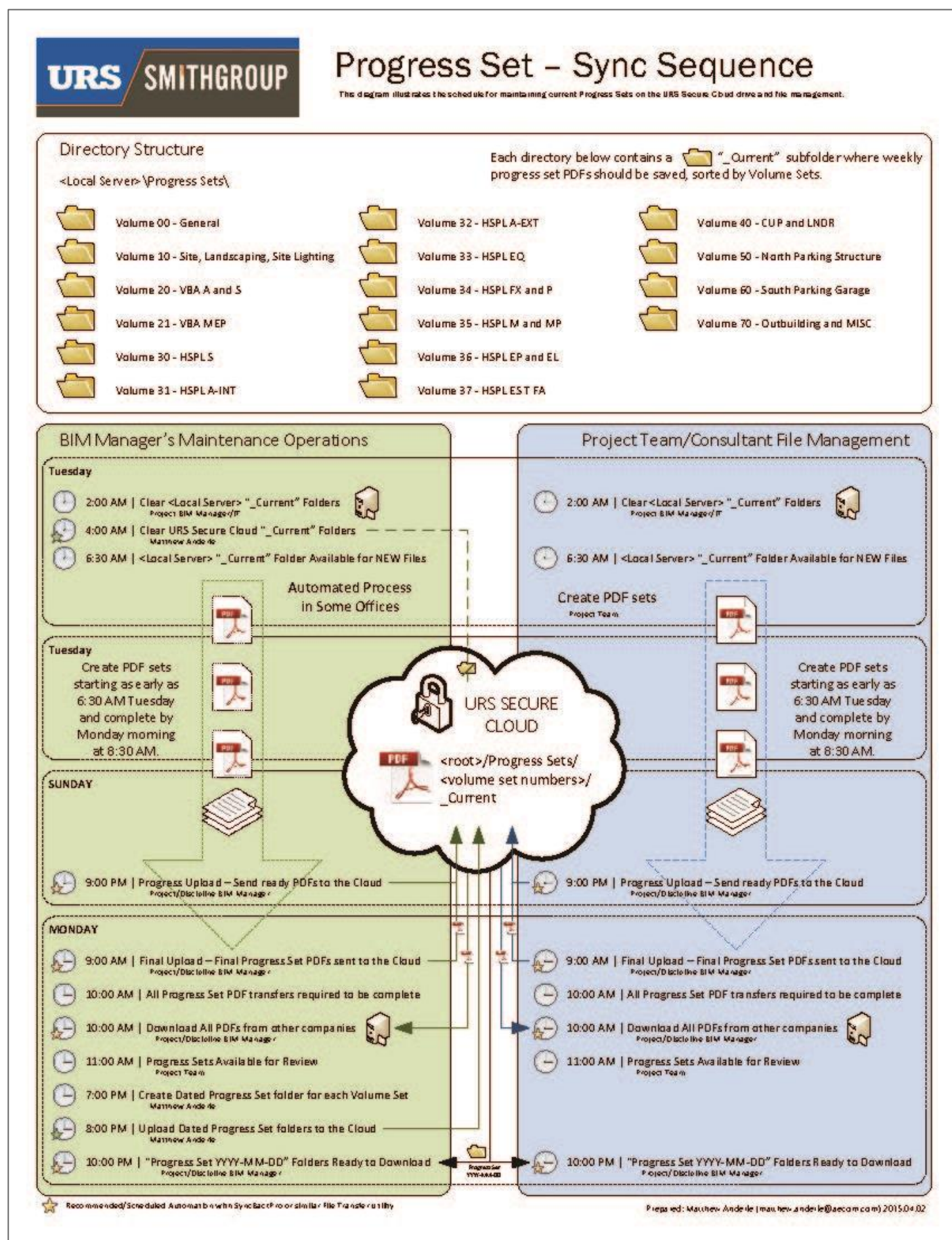
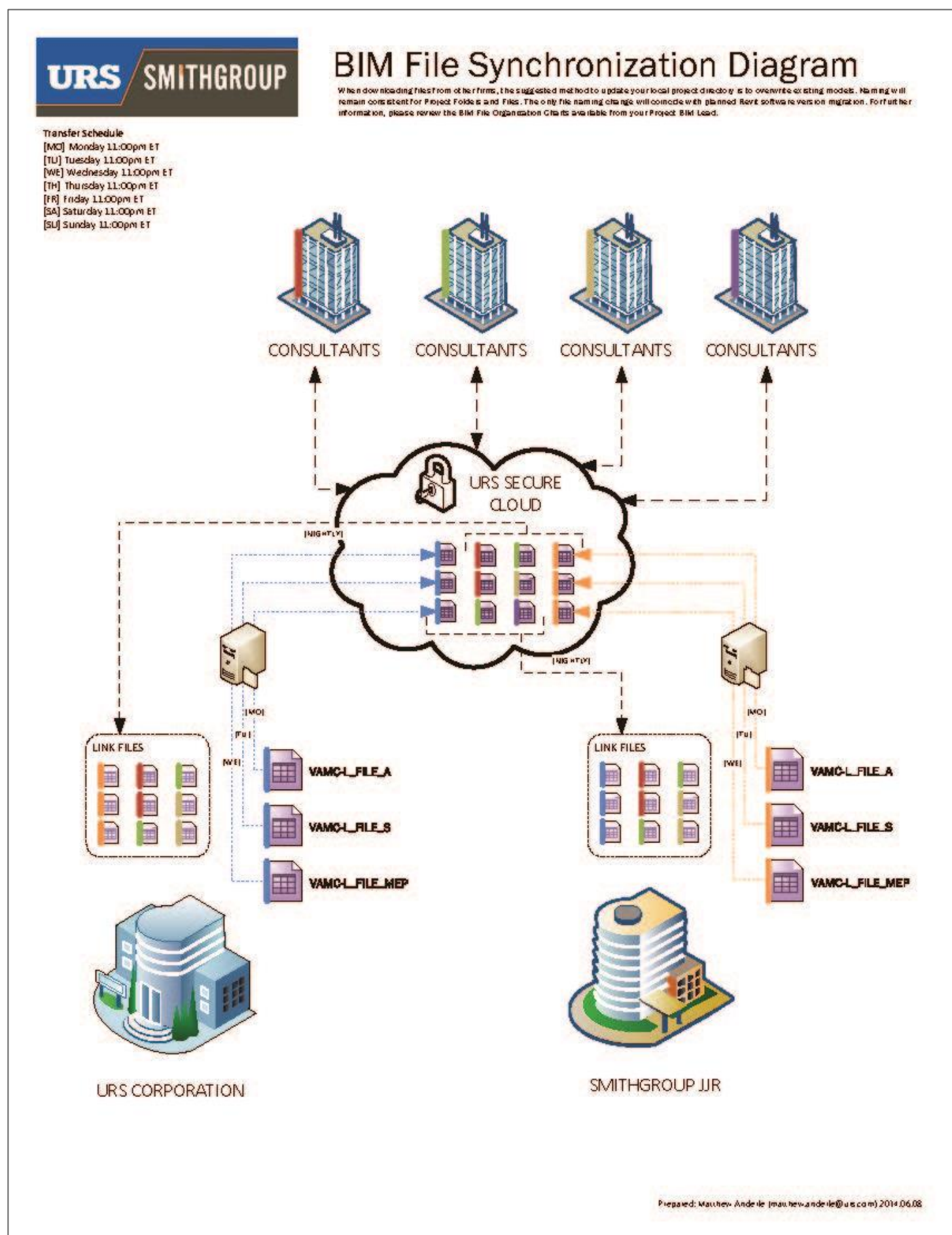
The duration of the project afforded us the opportunity to leverage several collaboration platforms which culminated in BIM 360 Design

04

HOSTING METHODS



Our Migration History



Prior to BIM 360 Design the Joint Venture team used Newforma, Box.com, SyncBackPro, and BIM 360 Team Classic to collaborate

Collaboration Poll

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[manderle777](#) to 22333
(once to join the poll)



BIM 360 Platform

- **Design**

Authoring | Collaboration | Detailing

- BIM 360 Design
- BIM 360 Plan

- **Pre-Construction**

Clash Detection | Constructability | Coordination

- BIM 360 Glue
- BIM 360 Plan

- **Field Execution**

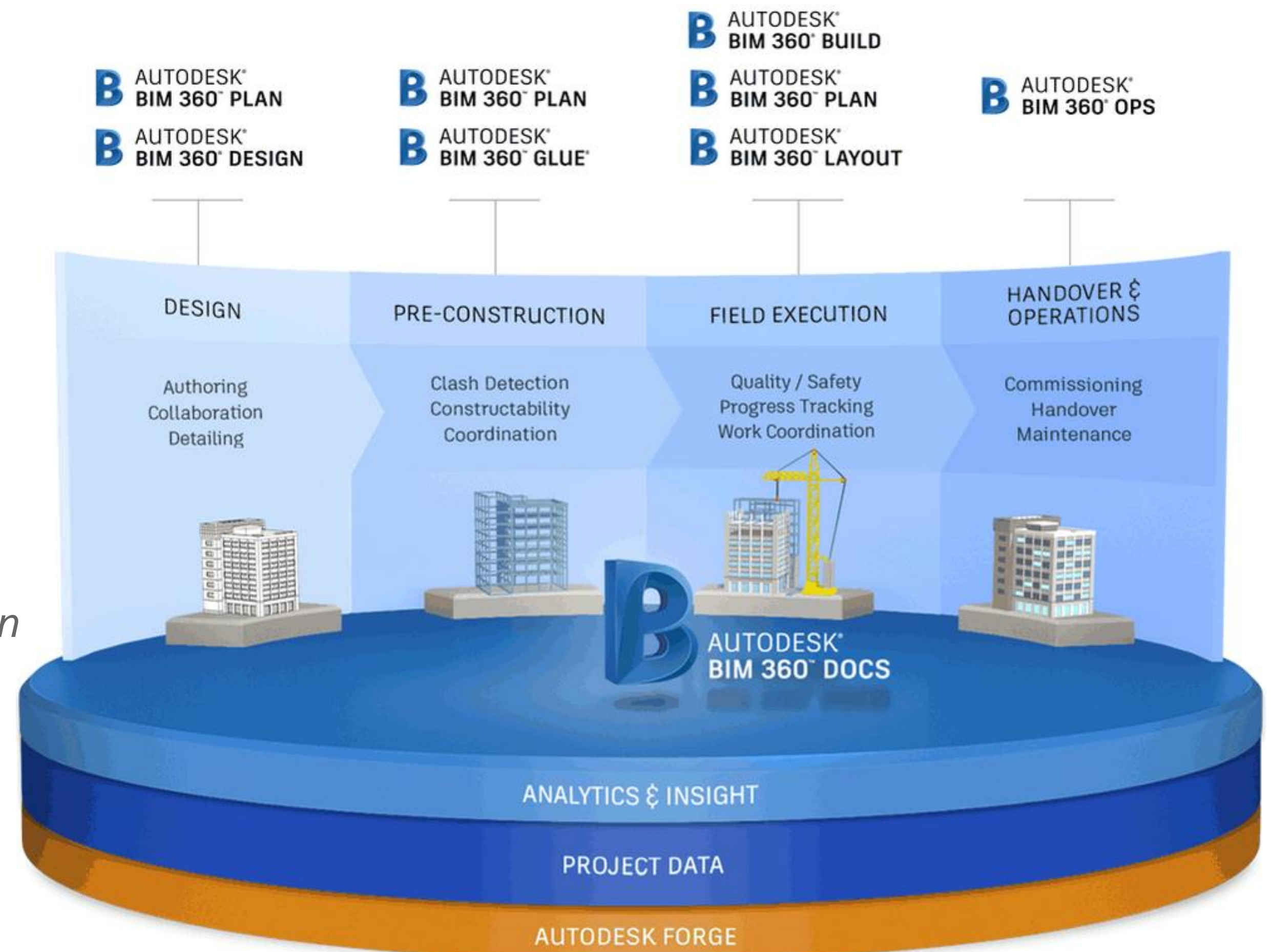
Quality & Safety | Progress Tracking | Work Coordination

- BIM 360 Layout
- BIM 360 Plan
- BIM 360 Build

- **Handover & Operations**

Commissioning | Handover | Maintenance

- BIM 360 Ops



BIM 360 Design Features



SINGLE PROJECT REPOSITORY

- Unlimited storage
- Supports all files types
- Project activity log



NAVIGATION

- Lists all thumbnail views
- Version control and rollback
- Single viewer for 2D and 3D files



DELIVERABLE COORDINATION

- Reduces rework with trackable project activity
- Facilitates model exchange and deliverable coordination
- Curates sets to separate work-in-progress from shared files



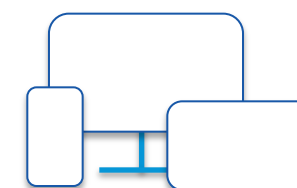
ACCESS CONTROLS

- Project- and folder-level access rights
- Defines access by role, company, and/or user
- Assigns five permission levels



CHANGE VISUALIZATION

- View added, removed, or modified elements
- Understand changes in context between aggregated models in a single space
- Navigate change visualization by team, phase, building level, and more



VIEWING

- Online and offline access on the web, phones, and tablets
- PDF and model viewer, optimized for Apple iOS
- Navigate between documents without closing viewer

Getting Started

- Project Admin
- Member Management
- Revit Model Initiation and Publish

Project Admin: BIM 360 Design Modules

- Project Home
- Project Administration
- Document Management
- Design Collaboration
- Insight
- Glue: Model Coordination
- Field: Field Management
- Cost Management
- Project Management

The image displays two overlapping screenshots of the Project Admin web application interface. The top screenshot shows the 'Services' tab selected in the top navigation bar, which lists various project service modules and their status. The bottom screenshot shows the main dashboard with a sidebar menu where the 'Project Admin' icon is highlighted.

Project Admin Interface Overview

Top Navigation Bar: Project Admin | MEMBERS | COMPANIES | **SERVICES** | PROFILE

Sidebar Menu: Project Admin | MEMBERS

Main Content Area (Services Tab):

Project Services and Admins
Project Services & Admins is where you can activate and manage project service modules, add and remove service admins, and manage the settings of active services.

Status	Module Name
Active	Document Management
Active	Project Management
Inactive	Cost Management
Active	Design Collaboration
Active	Model Coordination
Inactive	BIM 360 Field
Inactive	BIM 360 Plan

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Getting Started

- Project Admin
- Member Management
- Revit Model Initiation and Publish

BIM 360 Member Management

Project Admin

MEMBERS

COMPANIES

SERVICES

PROFILE

Project Members

Project Members lists all members of your project. This list includes pending members who have been invited to services but not yet activated their accounts as well as inactive members who were disabled by an account admin.

Add

Name ▲


Status


Email


Company


Role

Project Admin










Plan




Dan McLean


Active


dan.mclean@autodesk.com


Autodesk


IT


















Katherine Crowley


Active


katherine.crowley@aecom.com


AECOM


Document Manager, Interior D...


















Matt Anderle


Active


matthew.anderle@aecom.com


AECOM


Architect, BIM Manager


















Matt Turner


Active


matt.turner@smithgroup.com


SmithGroup, Inc


BIM Manager, Mechanical Engi...
















Filters

×


SERVICE




Insight4



Document Management4



Project Management4



Design Collaboration4

BIM 360 Plan2

- Members are assigned a Company and Role when invited to join a project
- Members can be granted access to each BIM 360 module individually
- Members inherit both a Company's and each Role's permissions, whichever is greater as applied to folders

BIM 360 Permissions Management

Document Management | AECOM > 00000000-AU2019

Permissions - Plans
Users: 3 Companies: 0 Roles: 0

View by: Folders Sets

Upload Files Showing 4 items

Name	Title	Set	Version	Last updated	Update
420 TQR	--	--	--	Sep 3, 2019 11:49 AM	
470 Progress PDF Set	--	--	--	Sep 3, 2019 11:49 AM	
500 Deliverable PDF Sets	--	--	--	Sep 3, 2019 11:49 AM	
930-40 Clash Coordination	--	--	--	Sep 3, 2019 11:49 AM	

Context Menu for 420 TQR:

- Add subfolder
- Rename
- Upload
- Share
- Add attributes
- Sort by
- Permissions**
- Title blocks
- Subscribe
- Submit for review
- Create transmittal

Permissions - Plans Table:

Name	Permission Level	Type	Project Ad...
Matt Anderle	Folder Control	User	Project Ad...
Dennis McNeal	Folder Control	User	Project Ad...
Katherine Crowley	Folder Control	User	Project Ad...

- Click the ellipsis [...] symbol and select [Permissions] from the left-hand menu
- A fly-out window appears at the right of the screen indicating Permission Levels
- Project Administrators have Folder Control permissions by default; Companies, Roles, or Users can be added

BIM 360 Permission Levels

- **View Only:** User/role/company may view, add private markups, and create issues
 - Cannot view image files
 - Cannot use Desktop Connector
 - If view settings are not set to BIM Viewer PDFs cannot be viewed on mobile devices
- **View / Download:** User/role/company may view documents, add private markups, create issues
- **Upload Only:** User/role/company may upload documents but not see the folder contents
- **View / Download + Upload:** User/role/company may share their own documents with team members and view any other documents in that folder
- **View / Download + Upload + Edit:** User/role/company may share their own documents with team members, view and edit any other documents in that folder, and publish markups
- **Folder Control:** User/role/company may share their own documents with team members and view and edit any other documents in that folder. With folder control permission they can also carry out tasks within that folder that are usually restricted to the project administrator. This includes creating title blocks, adding project members, managing permissions, and editing set assignment. This permission level offers the greatest access to folders.

Action	View only	View/Download	Upload only	View/Download + Upload	View/Download + Upload + Edit	Folder Control
Upload			✓	✓	✓	✓
Open Publish log	✓	✓		✓	✓	✓
Add Title block					✓	✓
Review/Publish					✓	✓
View document	✓	✓		✓	✓	✓
Rename document					✓	✓
Copy source folder		✓		✓	✓	✓
Copy target folder			✓	✓	✓	✓
Move source folder					✓	✓
Move target folder			✓	✓	✓	✓
Delete/Restore					✓	✓
View version history	✓	✓		✓	✓	✓
Download document		✓		✓	✓	✓
Make current					✓	✓
Edit attribute value					✓	✓
Export Document log					✓	✓

File Permissions

Action	View only	View/Download	Upload only	View/Download + Upload	View/Download + Upload + Edit	Folder Control
Create sub-folder					✓	✓
Rename folder					✓	✓
Delete sub-folder					✓	✓
Subscribe to folder		✓		✓	✓	✓
Add permission						✓
Edit / delete permission						✓
Add new member						✓
Access Title Block page	✓	✓		✓	✓	✓
Add Title Block					✓	✓
View Title Block	✓	✓		✓	✓	✓
Edit Title Block					✓	✓
Create and add a new attribute					✓	✓
Edit the droplist options/rename					✓	✓
Hide/Show		✓		✓	✓	✓
Edit attribute value					✓	✓
Reorder columns	✓	✓		✓	✓	✓
Edit set assignment					✓	✓

Folder Permissions

Action	View only	View/Download	Upload only	View/Download + Upload	View/Download + Upload + Edit	Folder Control
Add private markup	✓	✓		✓	✓	✓
Edit private markup	✓ [*]	✓ [*]		✓ [*]	✓ [*]	✓ [*]
Delete private markup	✓ [*]	✓ [*]		✓ [*]	✓ [*]	✓ [*]
Add published markup					✓	✓
Edit published markup				✓	✓	✓
Archive published markup					✓ [*]	✓ [*]
View published markup	✓	✓		✓	✓	✓
Add / edit markup attachment	✓ [*]	✓ [*]		✓ [*]	✓ [*]	✓
Add hyperlink					✓	✓
View hyperlink	✓	✓		✓	✓	✓
Edit hyperlink					✓ [*]	✓ [*]
Delete hyperlink					✓	✓
View Issue	✓ ^{AA}	✓ ^{AA}		✓ ^{AA}	✓ ^{AA}	✓ ^{AA}
Create Issue	✓ ^{AA}	✓ ^{AA}		✓ ^{AA}	✓ ^{AA}	✓ ^{AA}
Respond to an Issue	✓ ^{AA}	✓ ^{AA}		✓ ^{AA}	✓ ^{AA}	✓ ^{AA}
Close an Issue	✓ [*]	✓ [*]		✓ [*]	✓ [*]	✓ [*]
Compare (Paid Feature)	✓	✓		✓	✓	✓
Lock					✓	✓
Unlock					✓	✓
Search	✓	✓		✓	✓	✓
Share	✓	✓		✓	✓	✓

Collaborative Task Permissions

LIMITATIONS



Can only edit or delete items that they created



Issue permissions control capabilities

Getting Started

- Project Admin
- Member Management
- Revit Model Initiation and Publish

Revit Model Initiation and Publish Settings

The screenshot displays the Revit software interface with the 'Collaborate' and 'Publish Settings' ribbons highlighted. The 'Collaborate' ribbon is on the left, and the 'Publish Settings' ribbon is on the right. Below each ribbon, a dialog box is shown. The 'Collaborate' dialog box is titled 'Collaborate' and contains the following text: 'You are enabling collaboration. This will allow multiple people to work on the same Revit model simultaneously.' Below this text are three radio button options: 'Within your network', 'In BIM 360 Team', and 'In BIM 360 Document Management'. The 'In BIM 360 Document Management' option is selected. At the bottom of the dialog box are 'OK' and 'Cancel' buttons. The 'Publish Settings' dialog box is titled 'Publish Settings' and contains a 'Select Sets' section with a table of sets. The table has columns 'Include', 'Type', and 'Name'. The 'Include' column has checkboxes, and the 'Type' column has icons. The 'Name' column contains the names of the sets. The 'Include' column for 'adsk 360' and 'Set 1' is unchecked. Below the 'Select Sets' section is an 'Edit Set' section with a 'Show in list:' dropdown menu set to 'All views and sheets in the Set' and a 'Search:' text box. Below the 'Edit Set' section is a table of views and sheets. The table has columns 'Include', 'Type', and 'Name'. The 'Include' column has checkboxes, and the 'Type' column has icons. The 'Name' column contains the names of the views and sheets. The 'Include' column for all items in the table is checked. At the bottom of the dialog box are '<< Preview', 'Save & Close', and 'Cancel' buttons.

Collaborate

You are enabling collaboration. This will allow multiple people to work on the same Revit model simultaneously.

How would you like to collaborate?

- ☐ Within your network
Collaborate on a local or wide area network (LAN or WAN). The model will be converted to a workshared central model.
- ☐ In BIM 360 Team
Collaborate with open permissions among project members. The model will be cloud workshared in the project you select.
- ☒ In BIM 360 Document Management
Collaborate with controlled permissions among project members. The model will be cloud workshared in the project you select.

[Which collaboration method should I choose?](#)

OK Cancel

Publish Settings

Select Sets

Include	Type	Name
<input type="checkbox"/>		adsk 360
<input type="checkbox"/>		Set 1

Edit Set

Show in list: All views and sheets in the Set

Search:

Select All Select None

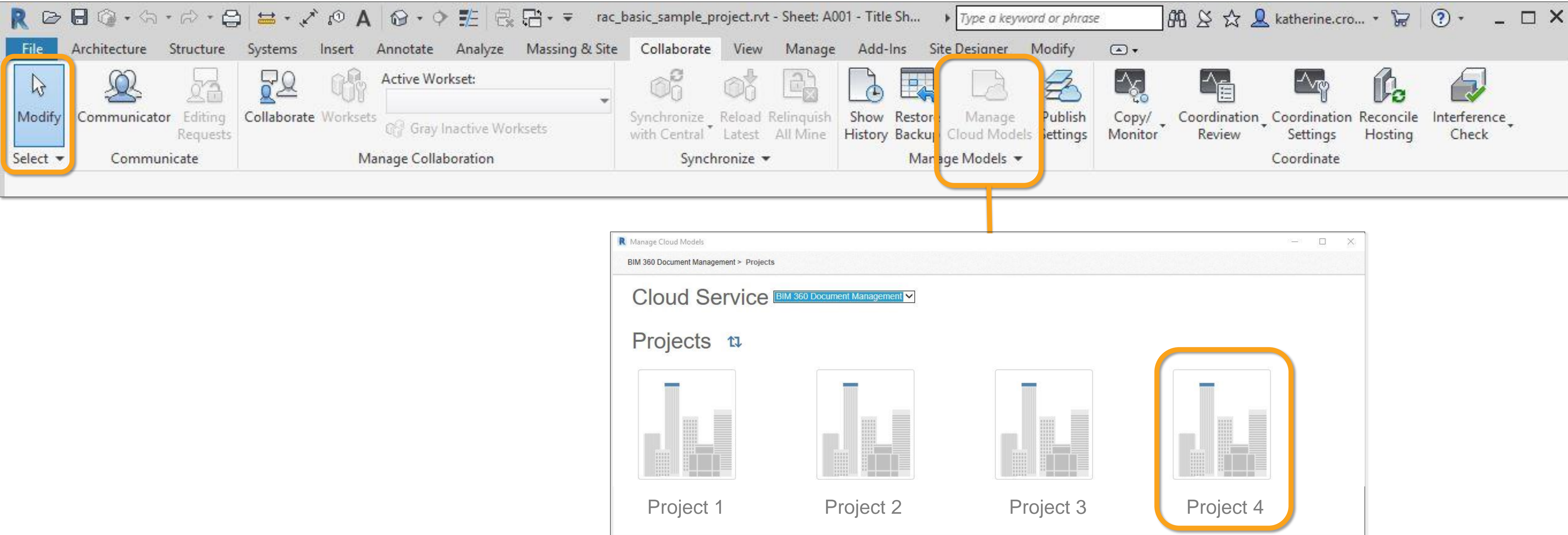
Include	Type	Name
<input checked="" type="checkbox"/>		Floor Plan: Level 1
<input checked="" type="checkbox"/>		Floor Plan: Level 2
<input checked="" type="checkbox"/>		Floor Plan: Site
<input checked="" type="checkbox"/>		Elevation: East
<input checked="" type="checkbox"/>		Elevation: North
<input checked="" type="checkbox"/>		Elevation: South
<input checked="" type="checkbox"/>		Elevation: West
<input checked="" type="checkbox"/>		3D View: Kitchen
<input checked="" type="checkbox"/>		Sheet: A102 - Plans
<input checked="" type="checkbox"/>		Section: Building Section
<input checked="" type="checkbox"/>		Section: Longitudinal Section

[How to select views/sheets to publish to the cloud](#)

<< Preview Save & Close Cancel

- Click [Collaborate] in the Collaborate Ribbon
- Select [In BIM 360 Document Management] in the dialog box
- Click [Publish Settings] and make appropriate selections in the dialog box

Revit Model Initiation and Publish



To publish the latest model:

- Click [Manage Cloud Models] to browse to a project and select models to publish

Revit Model Initiation and Publish

AUTODESK® BIM 360®
00000000-AU2019

Publish

00000000-AU2019 / Project Files / 930 Design Collaboration / Medical Research Building / Arch

<input checked="" type="checkbox"/> Name ^	Model Type	Modified Date	Modified By	Publish Status	Published Date	Published By
<input type="checkbox"/> Consumed	--	--	--	--	--	--
<input checked="" type="checkbox"/> Med Research - Arch Int	Workshared Cloud Model	October 20, 2019 10:32 A...	dennis.mcneal	Latest Published	October 20, 2019 11:30 A...	Dennis McNeal
<input checked="" type="checkbox"/> Med Research - Arch Shell	Workshared Cloud Model	November 10, 2019 10:57...	matthew.anderle@aeco...	Update Available	November 9, 2019 11:23 A...	Dennis McNeal

Recent Files

AECOM

- 00000000 ACM BIM St...
- 00000000-AECOM San...
- 00000000-AMER CIVIL...
- 00000000-AMER Prese..
- 00000000-AU2018

Open with worksets

- All
- Editable
- Specify..
- Open and Audit
- Publish Latest

To publish the latest model:

- Single model: click [...] and click [Publish Latest]
- Multiple models: Select each model's checkbox and click [Publish]

Workflow Poll

Snap QR code at right

Visit:
Pollev.com/manderle777

Text:
[manderle777](#) to 22333
(once to join the poll)



PDFs, Sets, and Markups

- PDF Uploads
- Sets
- Markups and Issues

PDF Uploads

Document Management

FOLDERSREVIEWSTRANSMITTALSISSUES

View by

FoldersSets

Plans

420 TQR

470 Progress PDF Set

2019-10-25 ITR

Current Set Tracking

500 Deliverable PDF Sets

930-40 Clash Coordination

Project Files

000 Design Teams

300 Communications

400 Technical

500 Deliverables

600 Construction Support

800 Safety

930 Design Collaboration

Shared

Upload Files

Name ^

Title

Set ▾

Version

Last updated

Updated by

Markup

We will process your plans for web and mobile viewing. Here's what's going to happen after you select your files:

Upload files

A102

Scan for sheet numbers and names

A102

A103

A104

Review results and define layouts

Extract sheets and publish

123

UploadExtractPublish

Continue

×

Upload your files

Current Set Tracking

Total: 1 file

Add files

File name

File format

Layout template

AU2019-Arch.pdf

PDF

No template ▾

×

- Click [Upload Files] / drag & drop file(s)
- Apply Template
- Apply Set and Date

PDFs, Sets, and Markups

- PDF Uploads
- Sets
- Markups and Issues

Sets

Document Management

FOLDERSREVIEWSTRANSMITTALSISSUES

View by

Folders

Sets

Set

☆ Current set

⚙ Manage sets

Don't see your documents?

<input type="checkbox"/> Name ^	Title	Set	Version	Last updated	Updated by	Path	Description
<input type="checkbox"/> A001	Title Sheet	Final Updates	V5	Nov 14, 2018 2:19 AM	Matt Turner	Plans/470 Progress ...	AU2018-Arch.pdf
<input type="checkbox"/> A101	Site Plan	Final Updates	V4	Nov 14, 2018 2:19 AM	Matt Turner	Plans/470 Progress ...	AU2018-Arch.pdf
<input type="checkbox"/> A102	Plans	Final Updates	V4	Nov 14, 2018 2:19 AM	Matt Turner	Plans/470 Progress ...	AU2018-Arch.pdf
<input type="checkbox"/> A103	Elevations/Sections	Final Updates	V4	Nov 14, 2018 2:19 AM	Matt Turner	Plans/470 Progress ...	AU2018-Arch.pdf
<input type="checkbox"/> A104	Elev./Sec./Det.	Final Updates	V4	Nov 14, 2018 2:19 AM	Matt Turner	Plans/470 Progress ...	AU2018-Arch.pdf
<input type="checkbox"/> A105	Elev./ Stair Sections	Final Updates	V4	Nov 14, 2018 2:19 AM	Matt Turner	Plans/470 Progress ...	AU2018-Arch.pdf
<input type="checkbox"/> AU2018-Arch.rvt		Final Updates	V3	Nov 14, 2018 2:19 AM	Matt Turner	Project Files/000 D...	

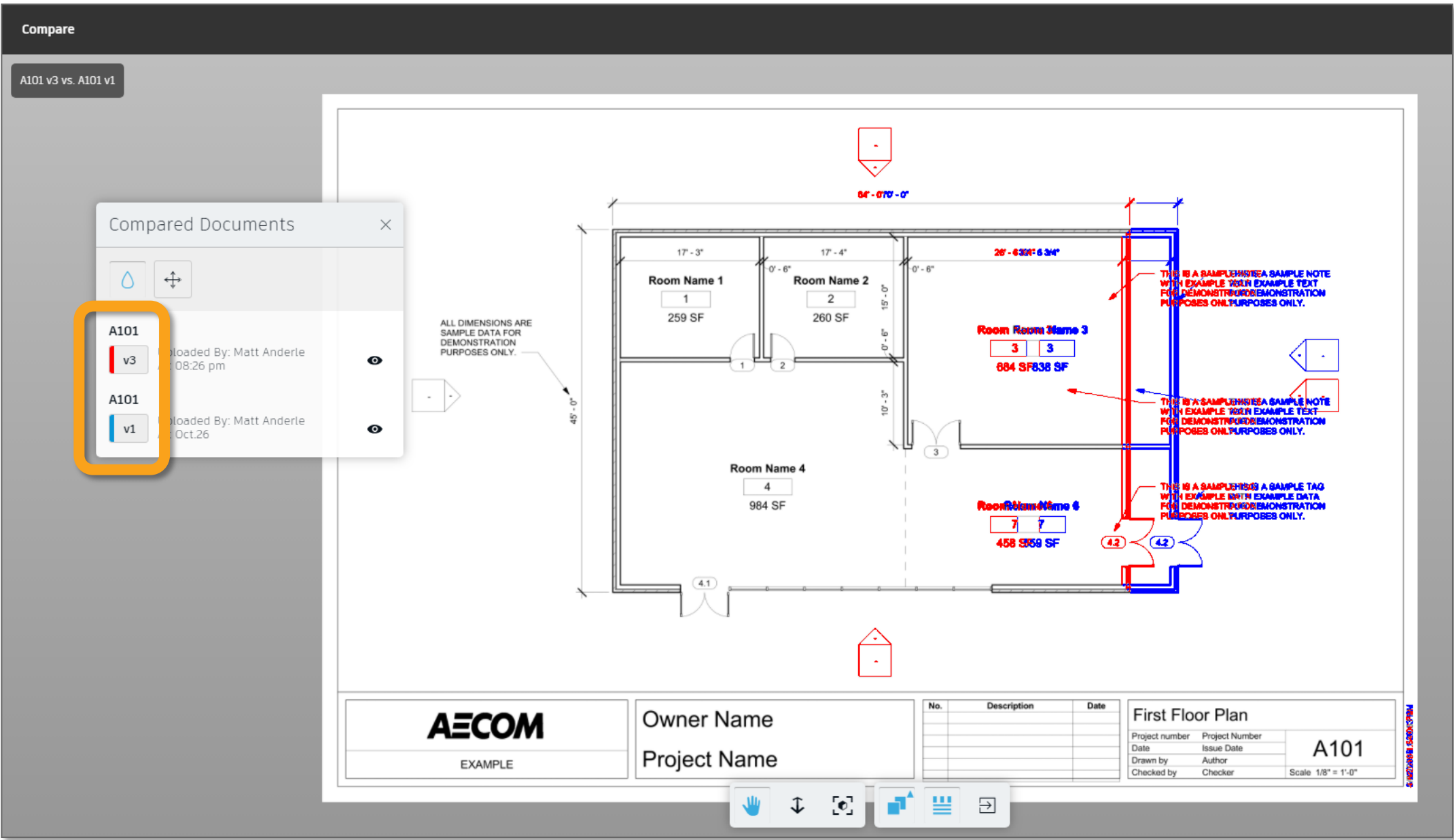
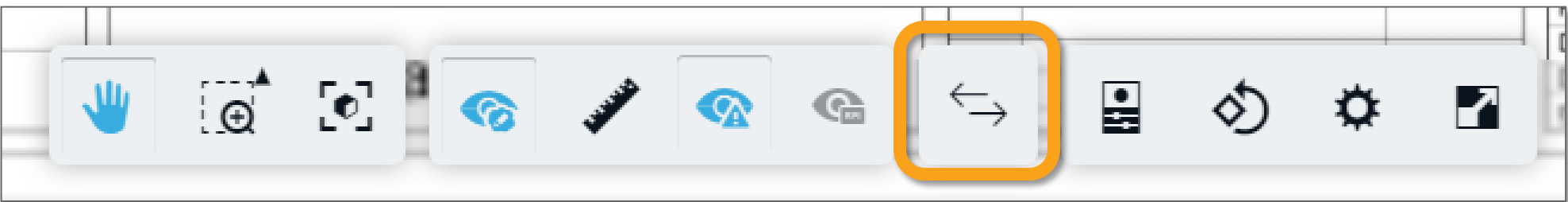
Click the [Sets] button to access all uploaded sets using the drop down menu to switch between sets

Versions and Compare Tool

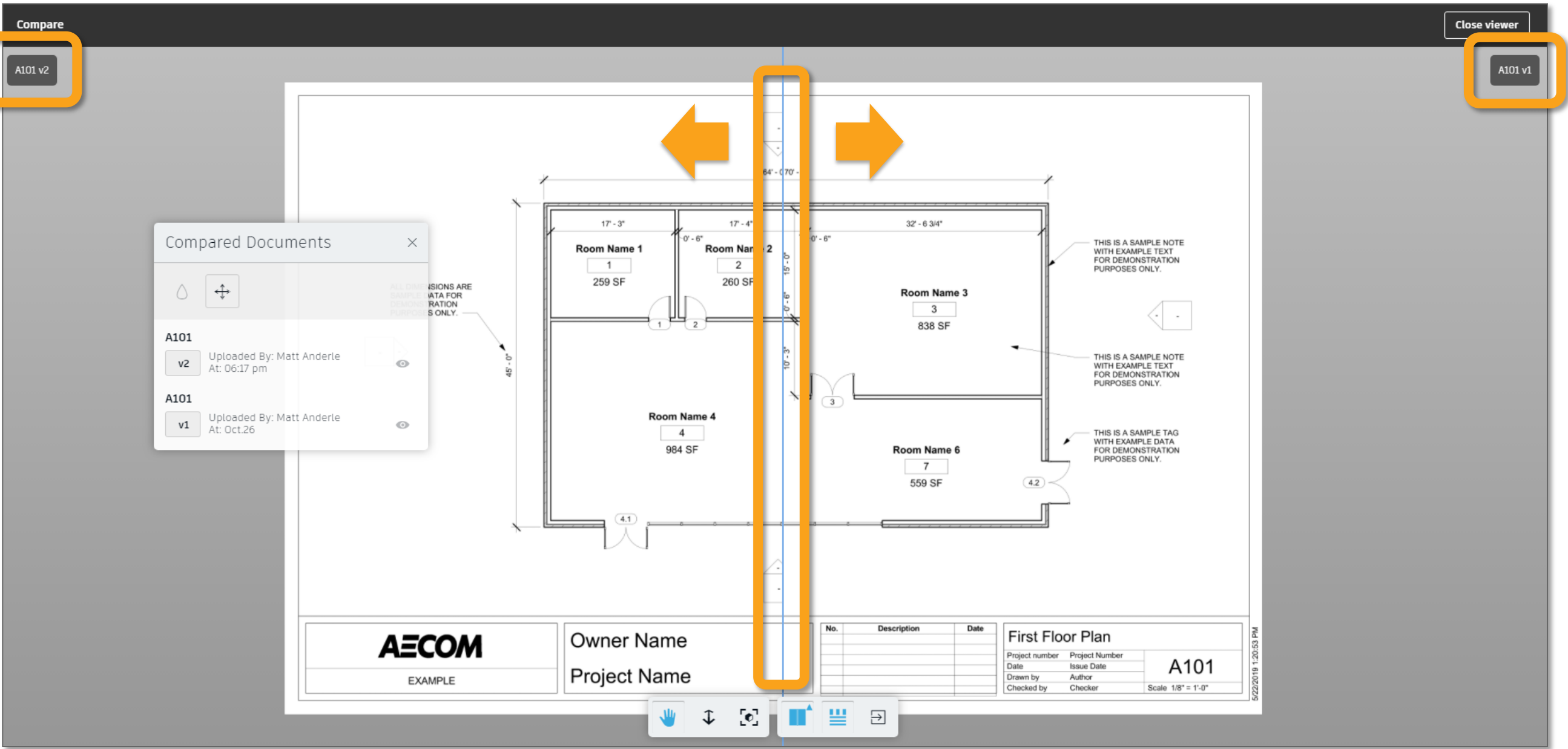
Select a file with multiple versions

<input type="checkbox"/> Name ^	Title	Set	Version	Last updated
<input type="checkbox"/> A101	First Floor Plan	AU2019 Presentati...	V2	Nov 10, 2019 6:20 PM

Select the [Compare] tool from the Control Tools menu



Overlay



Side by Side

PDFs, Sets, and Markups

- PDF Uploads
- Sets
- Markups and Issues

Markups

The screenshot displays the AECOM & SMITHGROUP software interface. At the top, the project name 'A102' and version 'V4' are shown, along with a 'Final Updates' button. On the left, a 'Markups' panel is open, showing a list of private markups. The main workspace displays a floor plan for 'Level 1' and 'Level 2'. A red dashed box highlights a room with the text 'Incorrect Room Dimensions'. On the right, there is a 'Room Legend' and a 'CONSTRUCTION DOCUMENTS' section with a table for 'Sample House Plans'. At the bottom, a toolbar contains various navigation and editing tools.

Markups Panel:

- Filter ▾ Sort ▾
- PRIVATE ▾
- Katherine Crowley
04:49 pm · V4 (current)
- + Add attachments

Room Legend:

- Bath
- Hall
- Kitchen & Dining
- Laundry
- Living
- Mech.

CONSTRUCTION DOCUMENTS:

No.	Description	Date
Autodesk		
Sample House		
Plans		
Project number	001-00	
Date	Issue Date	
Drawn by	SM	
Checked by	JLH	
A102		
Scale	1 : 100	

Markup Tools:

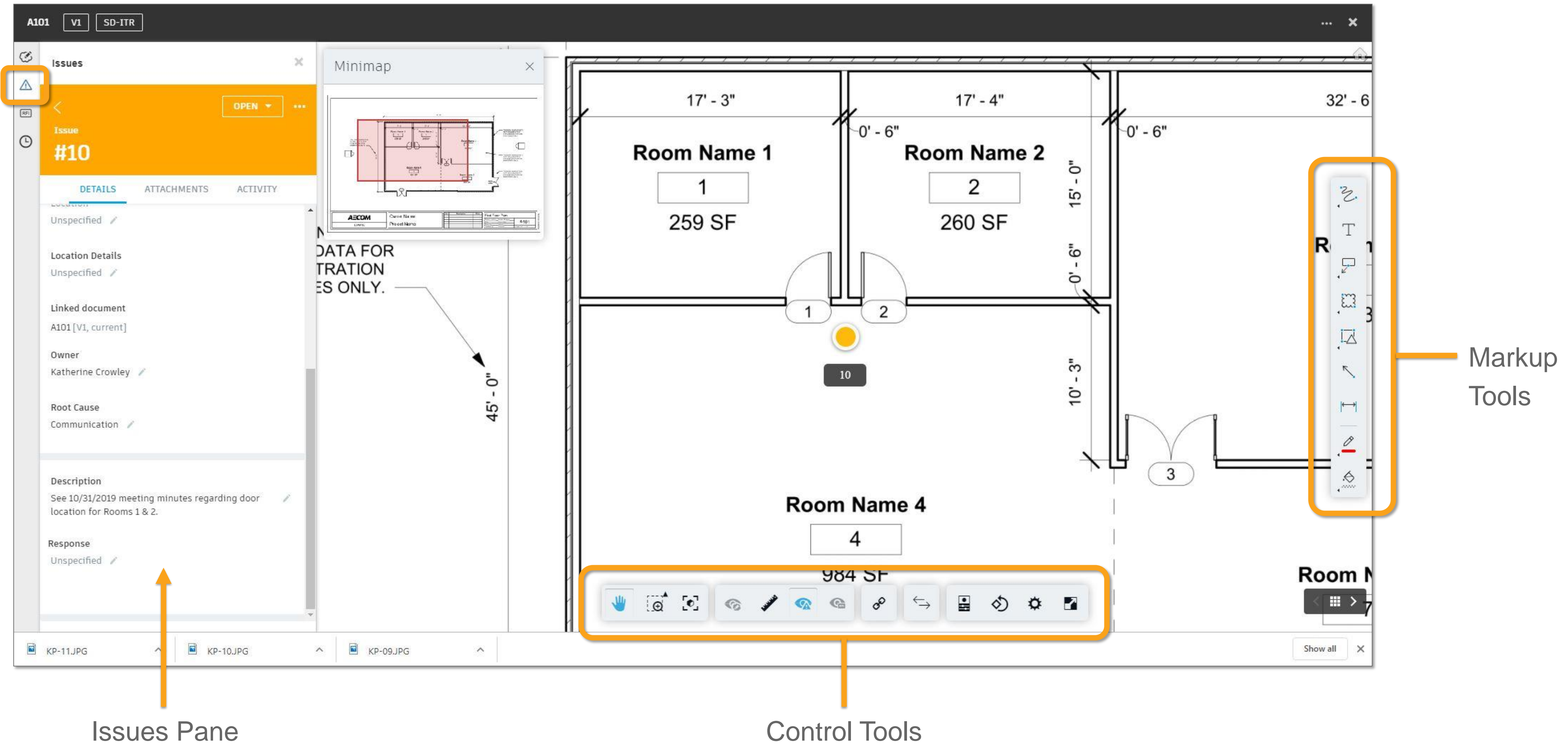
- Hand
- Zoom In
- Zoom Out
- Measure
- Rotate
- Move
- Copy
- Paste
- Undo
- Redo
- Settings
- Print

Saved Private
Markups can also
be Published so the
team can review

Markup
Tools

Control Tools

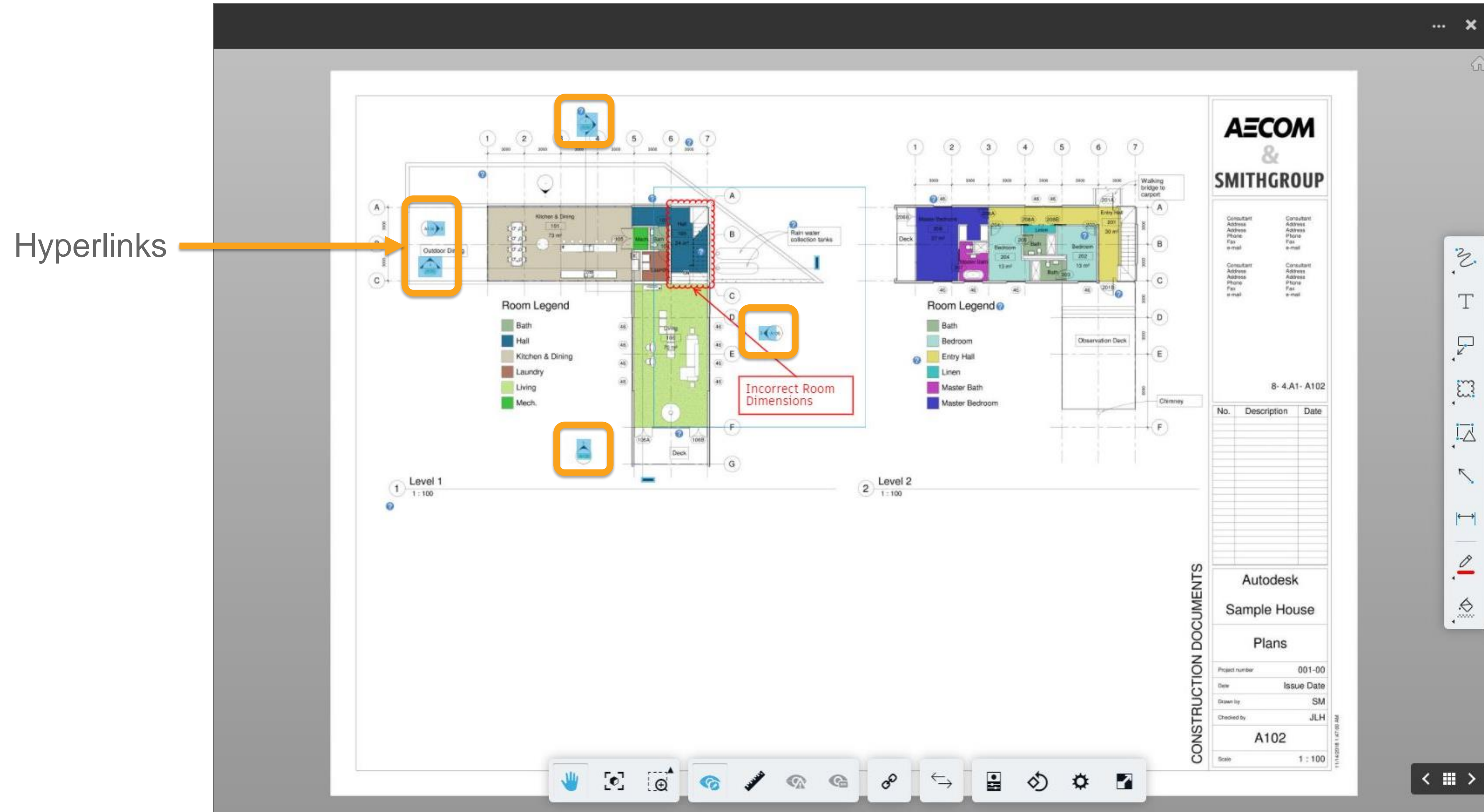
Issues



Leveraging Metadata

- Hyperlinking and Capturing Combined Sets
- Harvesting Metadata in BIM 360
- Viewing Model Properties in BIM 360

Hyperlinking and Capturing Combined Sets



Hyperlinks are created automatically when you upload RVT, DWG, DWF 2D sheets, and raster or vector PDFs with callouts to the Plans or Shop Drawings folders

Leveraging Metadata

- Hyperlinking and Capturing Combined Sets
- Harvesting Metadata in BIM 360
- Viewing Model Properties in BIM 360

Harvesting Metadata

The screenshot shows the 'Document Management' interface with a table of document items. A context menu is open for item A102, with 'Title blocks' selected. A 'Title Block Information' dialog is shown, with the 'Title' field highlighted. An arrow points from this field to the 'Title Sheet' field in a 'CONSTRUCTION DOCUMENTS' title block template on the right.

Document Management Interface

View by: Folders (selected), Sets

Upload Files | Showing 6 items | Search for documents

Name	Title	Set	Version	Last updated	Updated by	Markup	Issue	RFI	Status	File Name
A001	Title Sheet	Final Updates	V5	Nov 14, 2018 2:19 AM	Matt Turner	0	0	0		AU2018-Arch.pdf
A101	Site Plan	Final Updates	V4	Nov 14, 2018 2:19 AM	Matt Turner	0	0	0		AU2018-Arch.pdf
A102	Plans	Final Updates	V4	Nov 14, 2018 2:19 AM	Matt Turner	1	0	0		AU2018-Arch.pdf
A103	Elevations/Sections	Final Updates	V4	Nov 14, 2018 2:19 AM	Matt Turner	0	0	0		AU2018-Arch.pdf
A104	Elev./Sec./Det.	Final Updates	V4	Nov 14, 2018 2:19 AM	Matt Turner	0	0	0		AU2018-Arch.pdf
A105	Elev./ Stair Sections	Final Updates	V4	Nov 14, 2018 2:19 AM	Matt Turner	1	1	0		AU2018-Arch.pdf

Title Block Information

Name: AU2018 Final

Fields

Number: A001

Title: Title Sheet

Sorting: 8- 1.A0- A001

Disclaimer: DOCUMENTS CONSTR...

CONSTRUCTION DOCUMENTS

Autodesk

Sample House

Title: Title Sheet

Project number: 001-00

Date: Issue Date

Drawn by: SM

Checked by: JLH

Number: A001

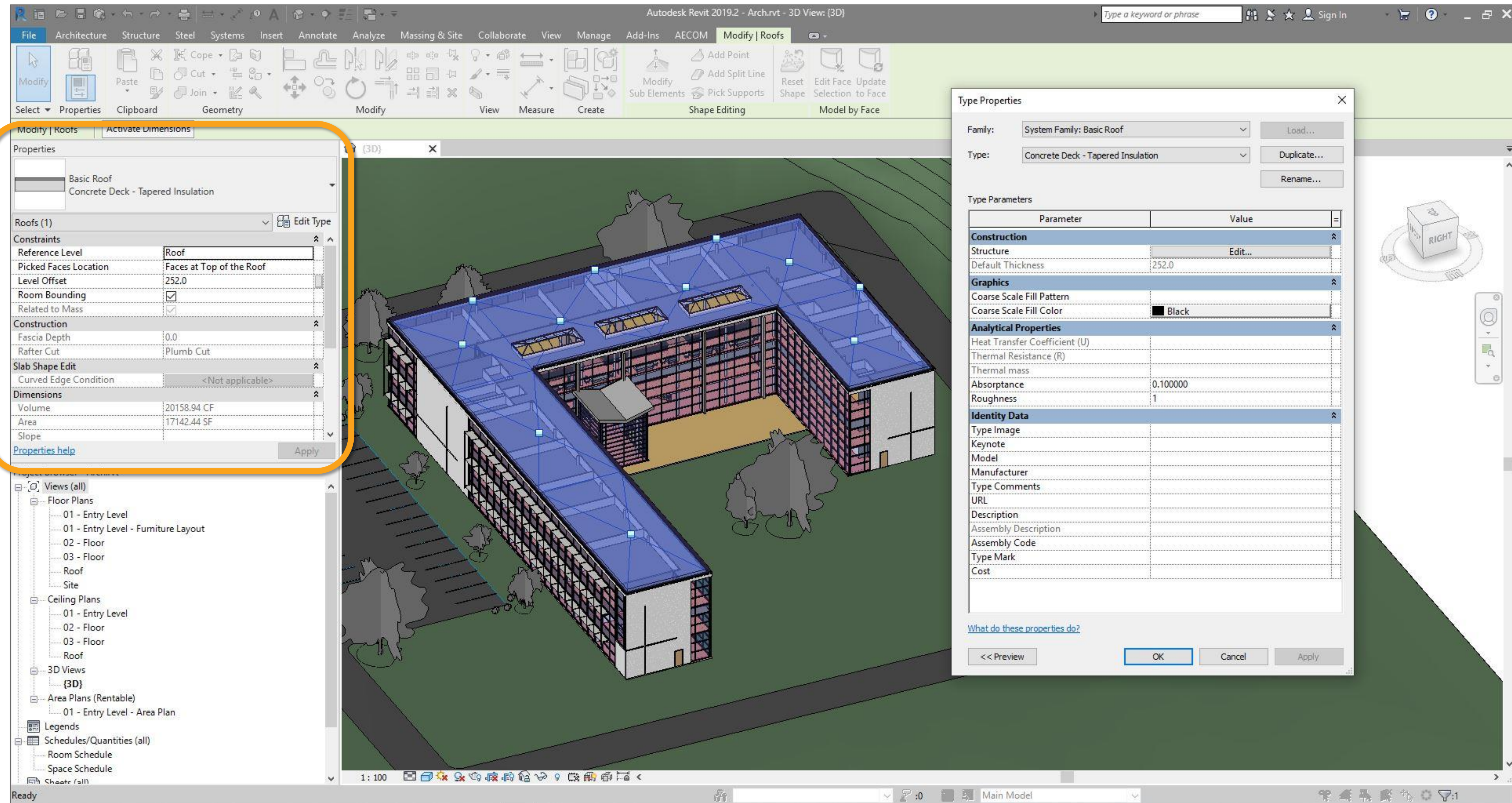
Scale: 1 : 1

- Click the ellipsis [...] symbol and select [Title Blocks]
- A Title Block management page appears
- Click [Add] or edit a Title Block to define the attribute areas within the sheet.

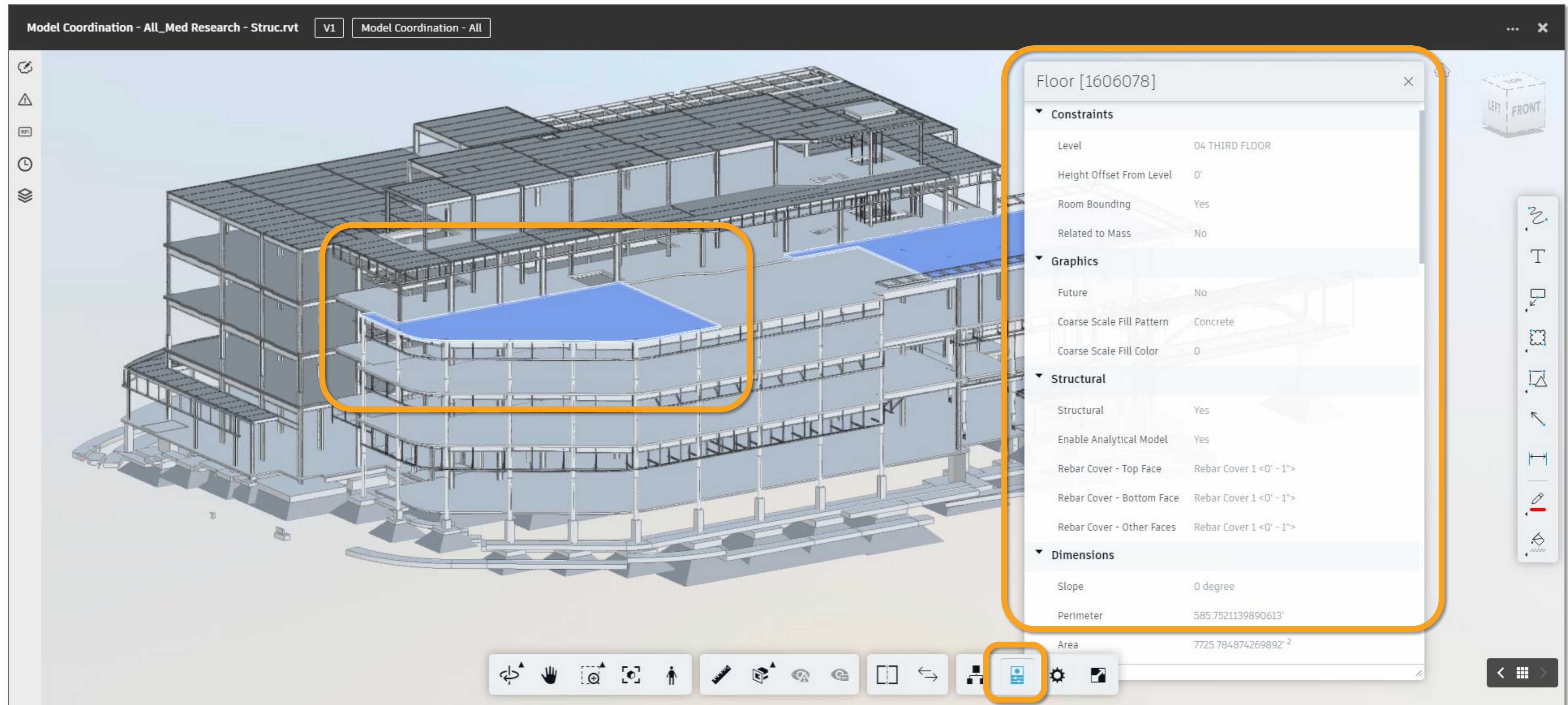
Leveraging Metadata

- Hyperlinking and Capturing Combined Sets
- Harvesting Metadata in BIM 360
- Viewing Model Properties in BIM 360

Revit Model Data



Revit Model Data in BIM 360

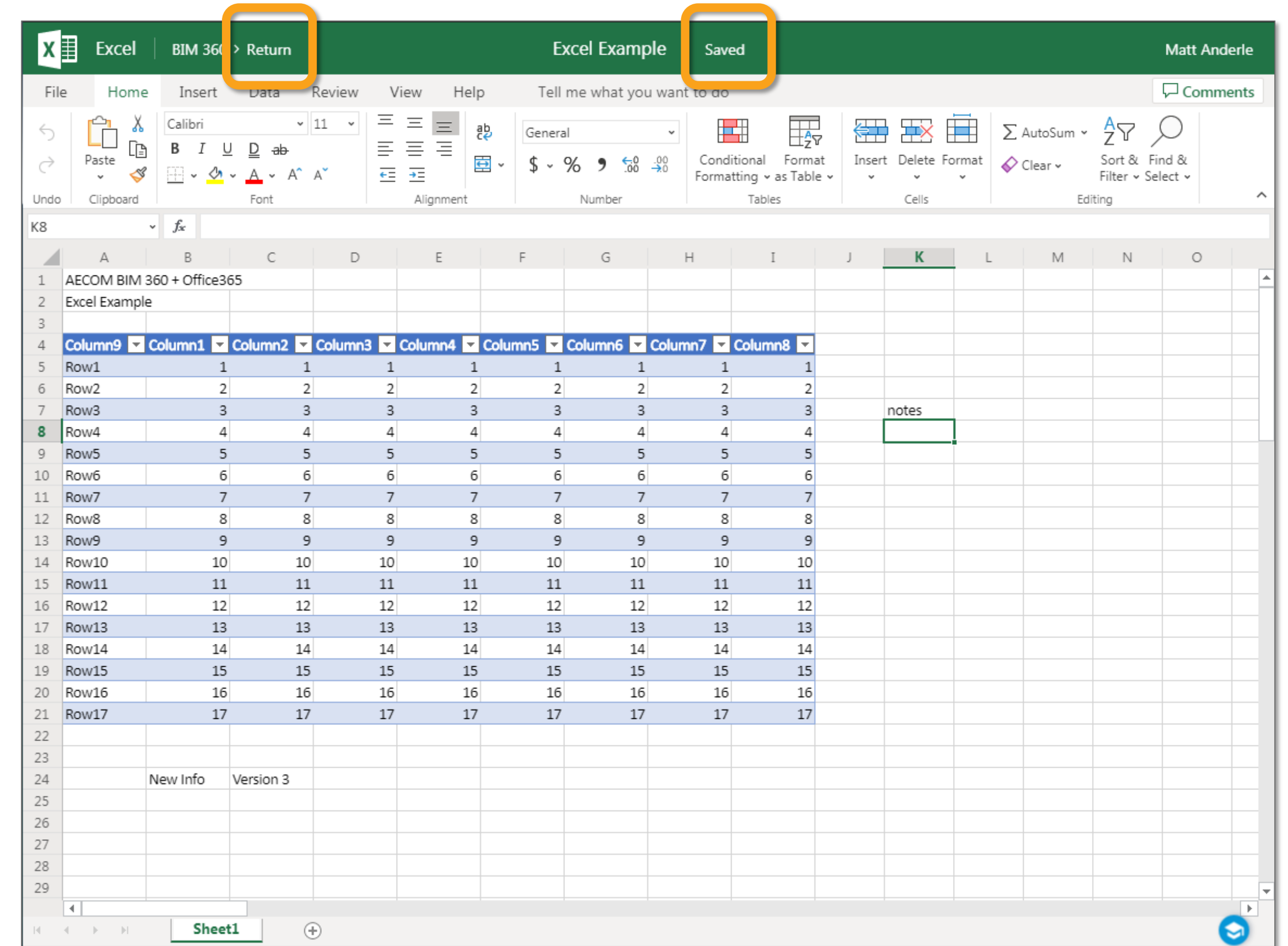
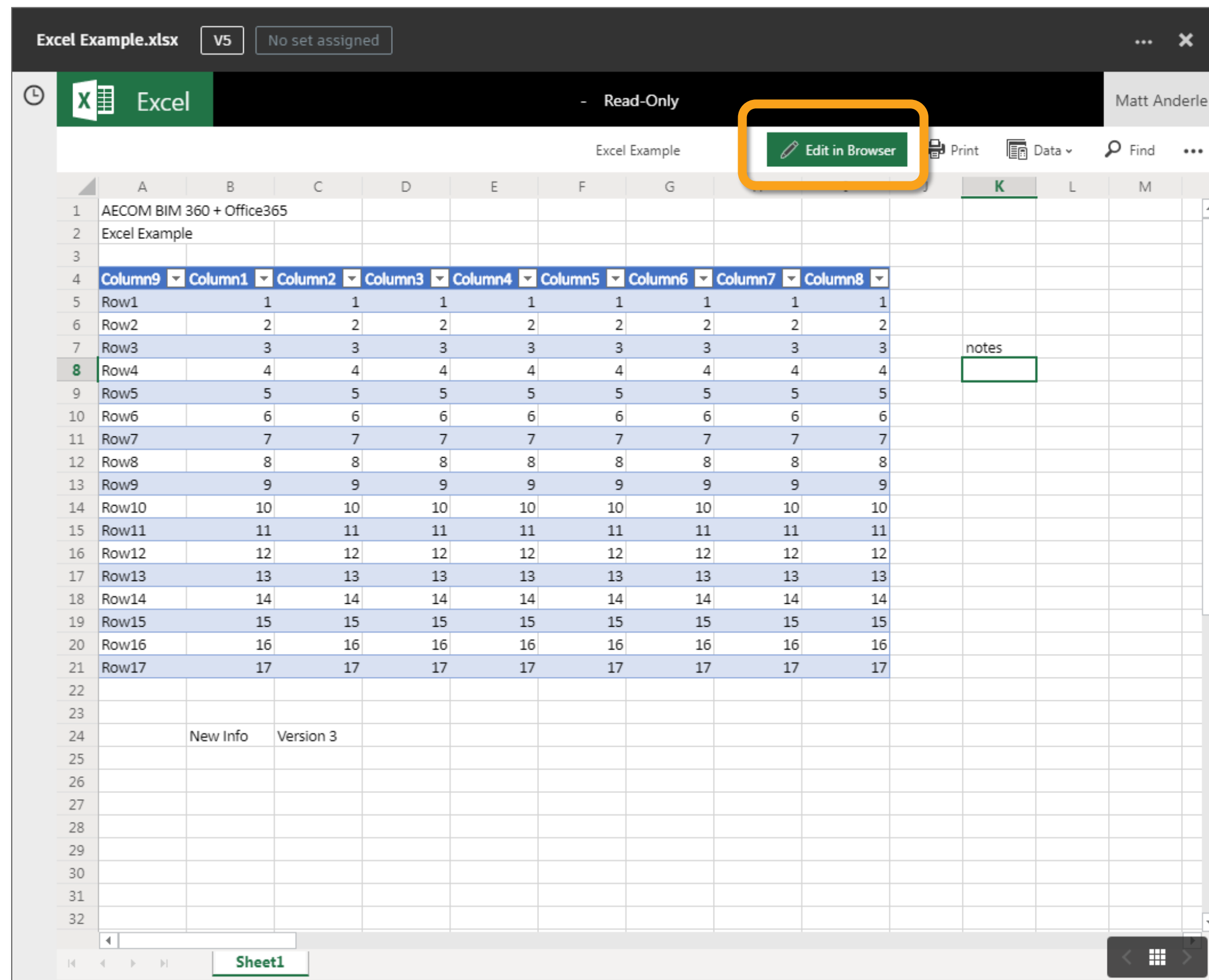


New Features

- Office 365 Integration
- Place Me



Office 365 Integration




- Open a Microsoft Office file in the BIM 360 viewer
- Click [Edit in Browser] and sign in
- Multiple team members can view or edit the file simultaneously
- Changes are saved automatically
- Click [Return] to close the file and return to BIM 360

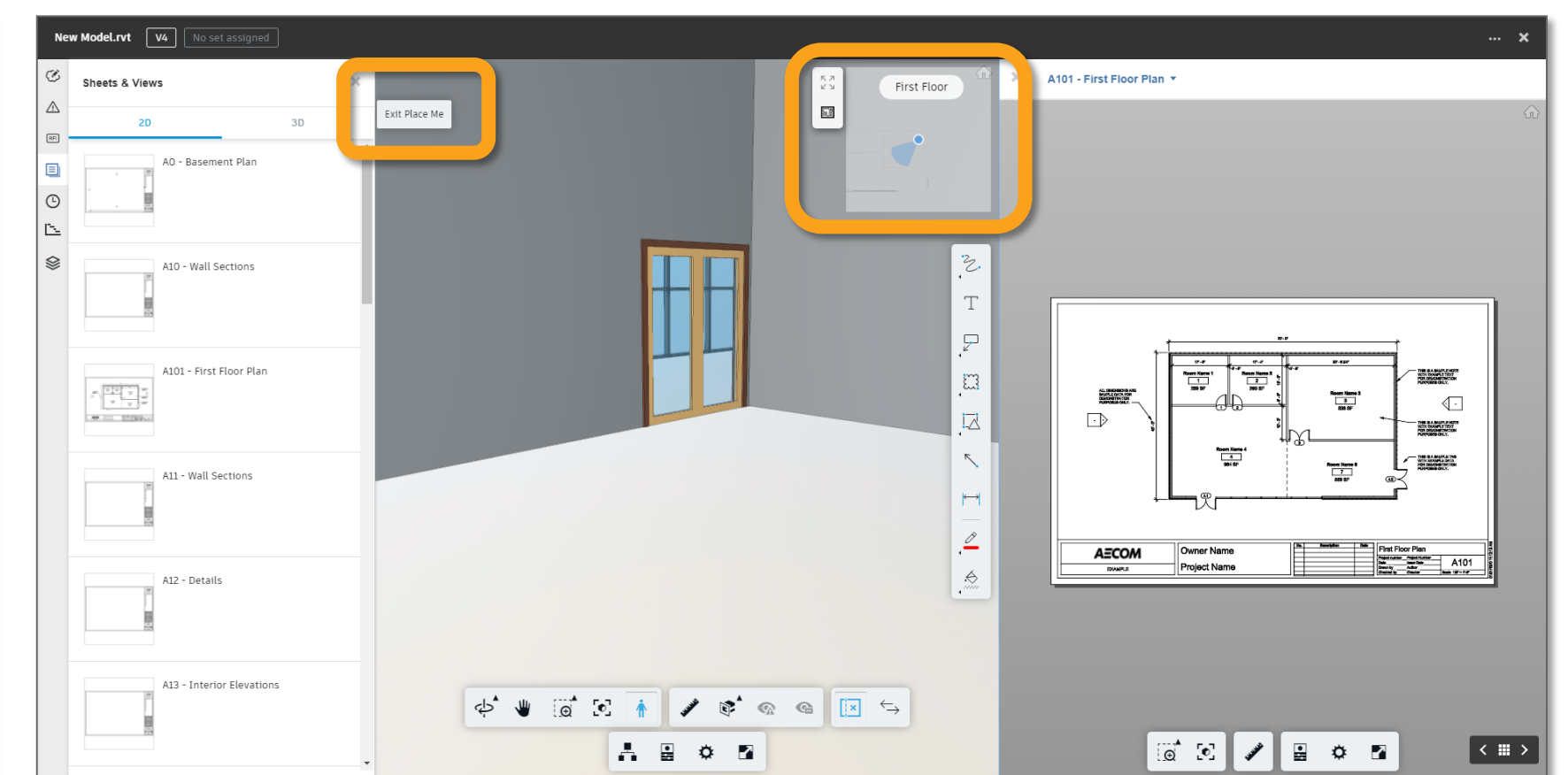
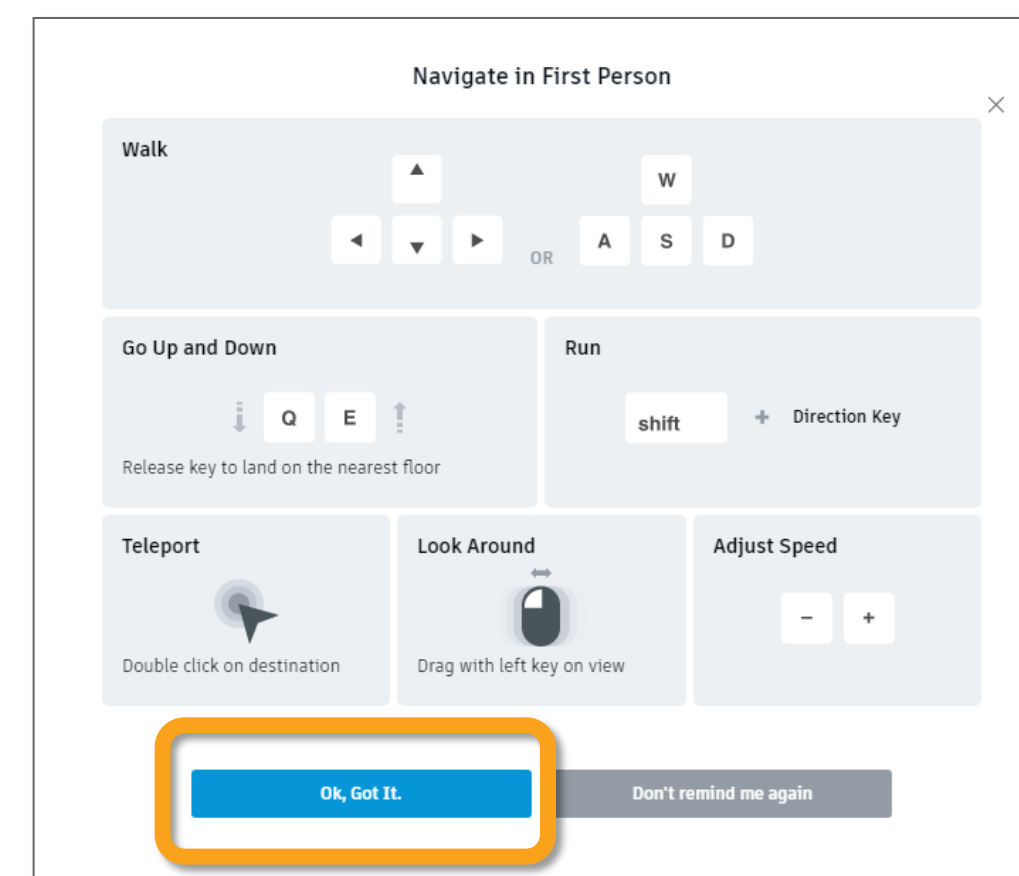
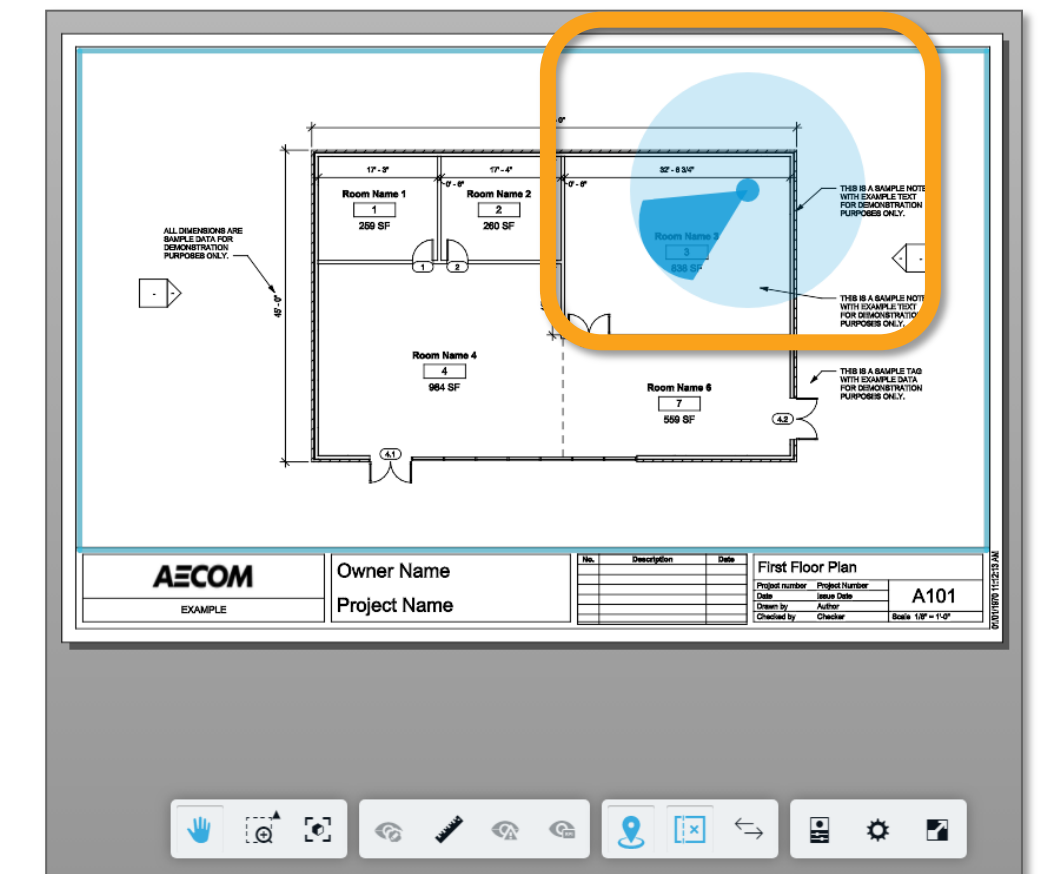
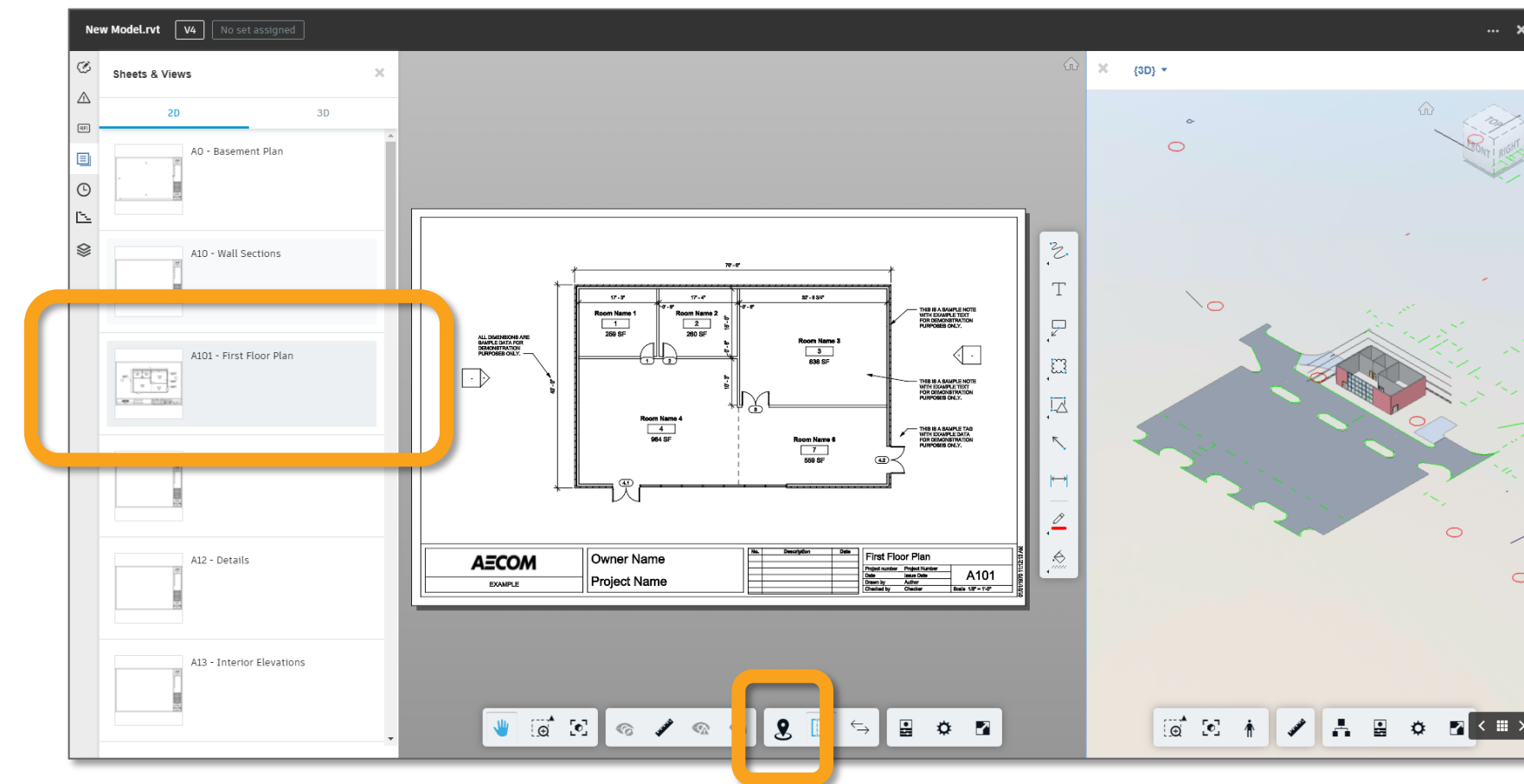
New Features

- Office 365 Integration
- Place Me



Place Me

- Open a 2D sheet from the Published Revit file
- In the Control Tools select the [Place Me] icon 
- Select the location on the 2D sheet.
- Use the cursor to orient the view angle
- Review the First Person Navigation Controls
- The user is placed into the 3D model in First Person Mode





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