AUTODESK. UNIVERSITY

AutoCAD and Autodesk Construction Cloud

Safe Harbor

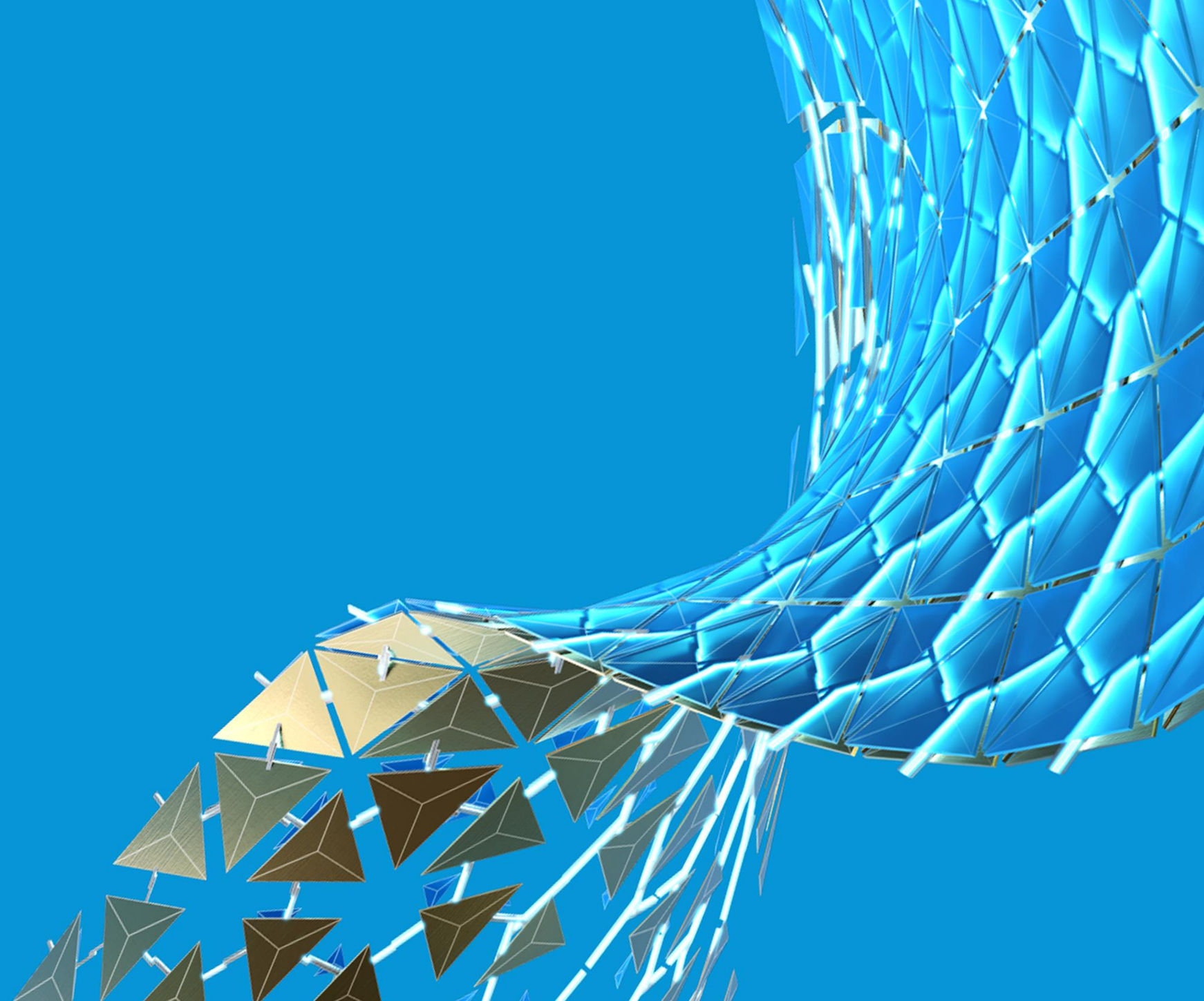
The presentations today may contain forward-looking statements about our strategies, products, future results, performance or achievements, financial, operational and otherwise, including statements about our strategic priorities, business model transition, and guidance for the fiscal year 2021 and beyond; our long term financial and operational goals; our M&A strategy; and our capital allocation initiatives. These statements reflect management's current expectations, estimates and assumptions based on the information currently available to us. These forward-looking statements are not guarantees of future performance and involve significant risks, uncertainties and other factors that may cause our actual results, performance or achievements to be materially different from results, performance or achievements expressed or implied by the forward-looking statements contained in these presentations, such as a failure to successfully integrate acquired businesses; developments in the COVID-19 pandemic and the resulting impact on our business and operations; general market, political, economic, and business conditions; complete transitions to new business model and markets; failure of the construction industry to grow as anticipated; failure to develop new products; failure to successfully expand adoption of our products; and failure of product changes to have the desired benefits.

A discussion of factors that may affect future results is contained in our most recent Form 10-K and Form 10-Q filings available at www.sec.gov, including descriptions of the risk factors that may impact us and the forward-looking statements made in these presentations. The forward-looking statements made in these presentations are being made as of the time and date of their live presentation. If these presentations are reviewed after the time and date of their live presentation, even if subsequently made available by us, on our website or otherwise, these presentations may not contain current or accurate information. We disclaim any obligation to update or revise any forward-looking statement based on new information, future events or otherwise.

Non-GAAP Financial Measures

These presentations include certain non-GAAP financial measures. Please see the section entitled "Reconciliation of GAAP Financial Measures to non-GAAP Financial Measures" in the Appendices attached to the presentations for an explanation of management's use of these measures and a reconciliation of the most directly comparable GAAP financial measures.

Speakers



Alyssa Weis

PlanGrid & Autodesk Build Product Manager

Alyssa has experience in product management, user experience design and construction litigation. She is passionate about solving real problems with technology. She joined Autodesk one year ago as a Product Manager for Autodesk Build. Alyssa holds a B.A. in Journalism from the University of South Carolina and a J.D. from Stanford Law School.

Audrey Boguchwal

Autodesk Docs Product Manager

Audrey has over 10 years of technology experience in media technology, UX design, and AI/ML product development. With a background in anthropology, history and business, Audrey is fascinated by how people interact with technology and how technological advancements can help humanity thrive. Audrey holds a B.A. in History from Harvard University, an M.A. in Anthropology from Columbia University, and an MBA from UNC Chapel Hill's Kenan-Flagler Business School.

Natia Golan

AutoCAD Product Manager

Natia brings more than 10 years of experience in B2B senior product & strategy management roles, both in Startups and corporate companies. Natia has a passion for amazing technologies that solve real user problems.
Joined Autodesk two years ago and is driving the "One AutoCAD" Cross-platform experience. Natia Holds a B.A. in Political science from Bar-Ilan University.

Victoria McKinnon

AutoCAD Product Manager

Victoria has her B.S. in Chemical Engineering from the University of Nebraska. After traveling to work in some of the world's largest refineries with Chevron, Victoria joined Autodesk as a Technical Solutions Executive. Victoria has since enjoyed working side-by-side with Autodesk's largest manufacturing customers. Today, she is excited to help solve customer's problems by providing AutoCAD users time-saving improvements.

Agenda

INTRODUCTIONS

OVERVIEW

AUTOCAD TO CONSTRUCTION CLOUD

Discover new ways AutoCAD connects with the Autodesk Construction Cloud

AUTODESK CONSTRUCTION CLOUD WORKFLOWS

Explore BIM 360 and Autodesk Docs workflows with AutoCAD DWG and PDFs

ADDITIONAL CLOUD CONNECTIONS

Before we get started…

Autodesk Construction Cloud

Help construction teams meet the world’s rapidly expanding building and infrastructure needs, while making construction more predictable, safe and sustainable.

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Autodesk Construction Solutions

AUTODESK DOCS

AEC document management in the cloud

- **Share, view, markup and manage drawings, documents and models in one place**
- **Get anytime, anywhere access to projects**
- **Integration across the construction lifecycle**

BIM 360 DOCS

Construction document management

- **Many of the same benefits as Autodesk Docs, but not fully integrated with the Autodesk Construction Cloud**

AUTODESK BUILD

Comprehensive project management and field execution on web and mobile

- **Collaborate from anywhere, anytime**
- **Ensure everyone is on the current sheet set**

Overview

DESIGN

DESIGN WITHIN AUTOCAD

COLLABORATE

COLLABORATE WITH BIM 360
OR AUTODESK DOCS

BUILD

SHARE IN THE FIELD WITH
AUTODESK BUILD

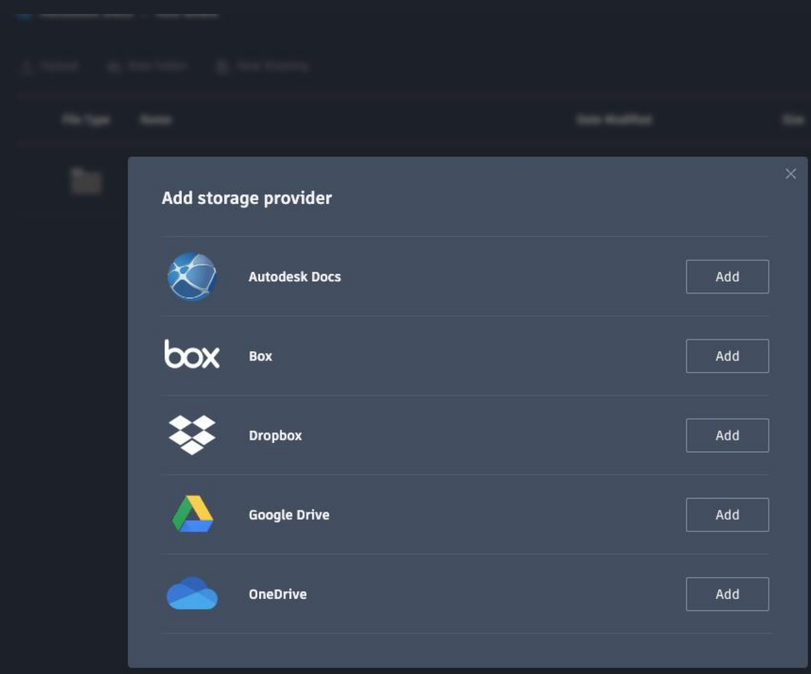
AutoCAD Connections

Multi-Platform AutoCAD

New: Connect to Autodesk docs from AutoCAD web app

- View & edit DWGs on devices with no AutoCAD installed

- Collaborate with your team members on the real DWG



Documents - Autodesk Build | Google

acc.autodesk.com/build/docs/projects/d1bc5923-1753-4df2-ba37-ea80192de177?folderUrn=urn%3Aadsk.wipprod%3Afs.folder%3Aco.L3be1HbrQSquOcj5_8TaQQ&viewModel=detail&moduleId=folders

400 Beale | Build | Natia Golan

- Home
- Sheets
- Documents
- Issues
- Forms
- Photos
- RFIs
- Submittals
- Meetings
- Progress Tracking
- Team
- Settings

Documents

Folders | Deleted items | Settings

Documents
- Distributed
- ACADT2
- APAC Test
- CG-DC_Core
- Cody Austin
- CS Project D...
- Dan McLean
- Design Files
- Erik Bank
- JPM
- JW Folder
- Kevin Logerq...
- Kristina´s Fo...
- LEB
- Marcel Lanjo...
- Maria's Folder
- Mark King Te...
- Michel De Co...
- mitchell_test...
- mitchell_test...
- Natia
- New Folder C...

Upload files | Search

Name	Description	Version	Shared	Size	Last updated	Updated by	Suitability Code
TinyHouseMckinnon....		V1	--	8.5 MB	Oct 20, 2020 10:09...	Natia Golan	

Showing 1 item

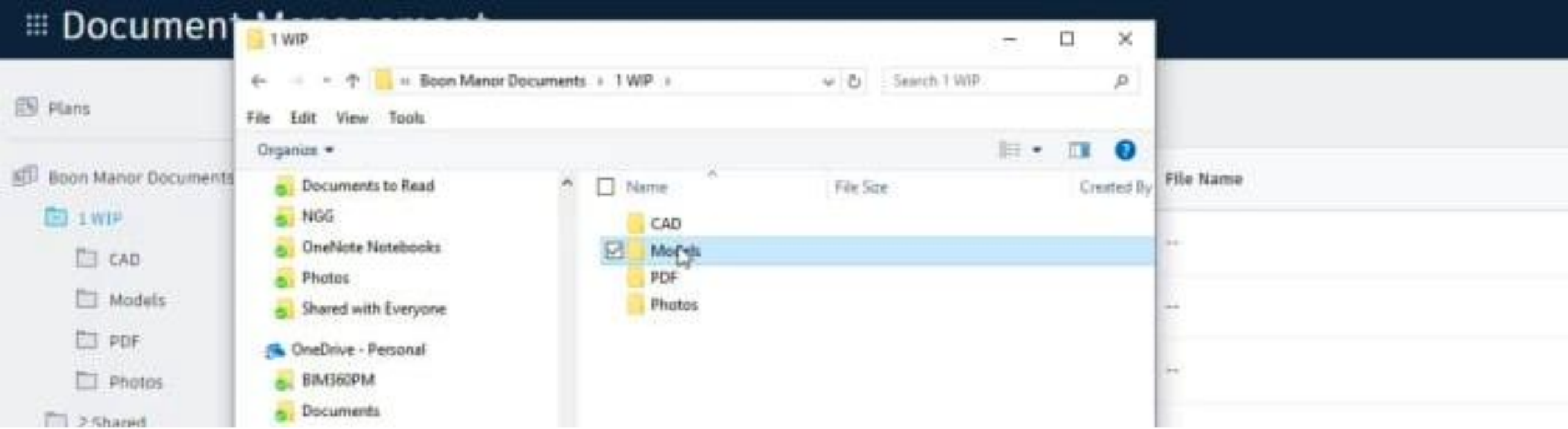
Coming soon: Connect to Autodesk docs from AutoCAD mobile app

- Embed changes from the site to the original DWG, efficiently on the go

- Create new drawings for fast drafting with your mobile

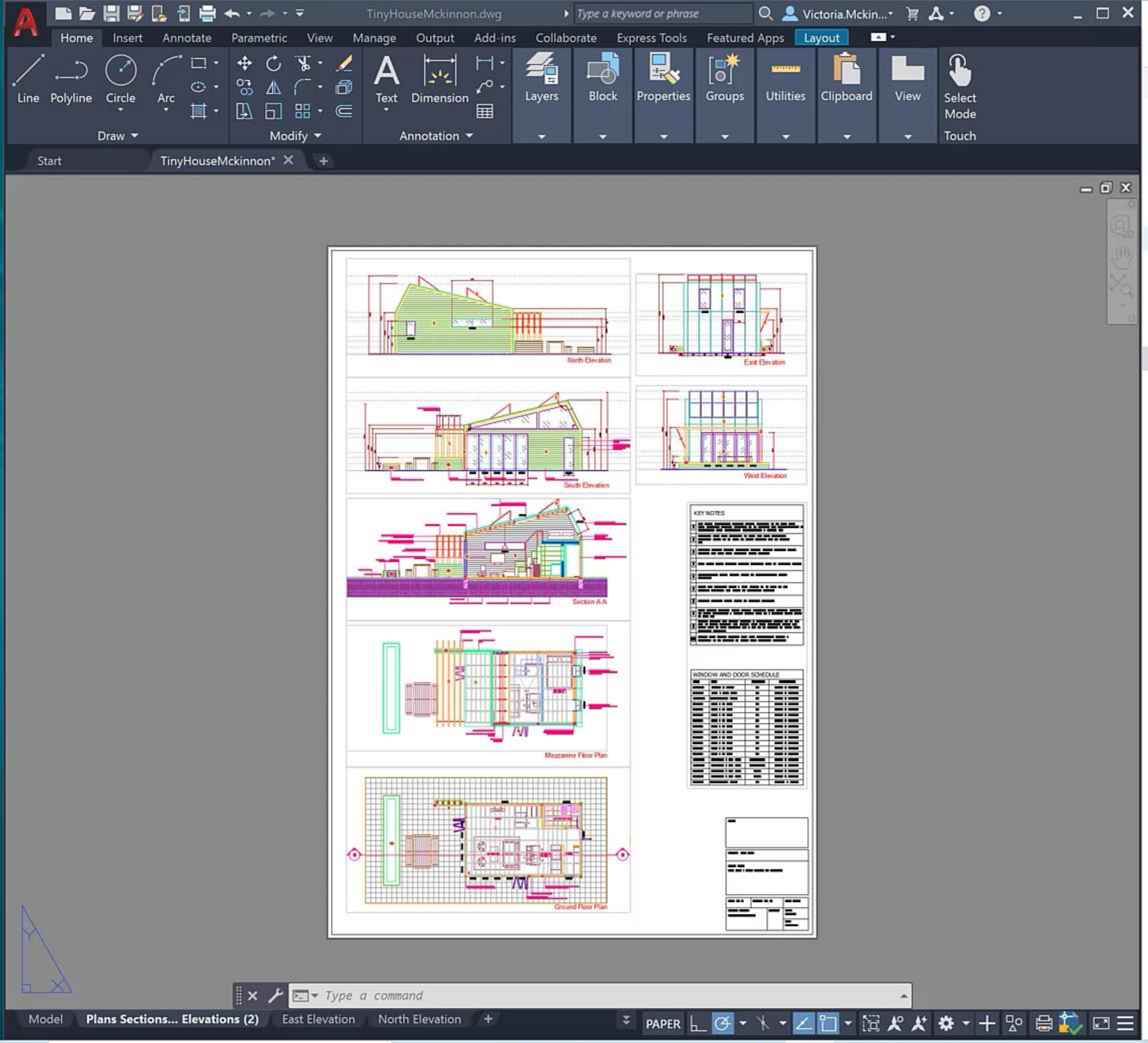
15:07 Tue 13 Oct
40%
Photo Booth
Shortcuts
iTunes Store
Clips
iMovie
YouTube
Smart Pianist
Netflix
Kindle
STINGTV
Music
Files
Chrome
GarageBand
Speedtest
AutoCAD
Pinterest

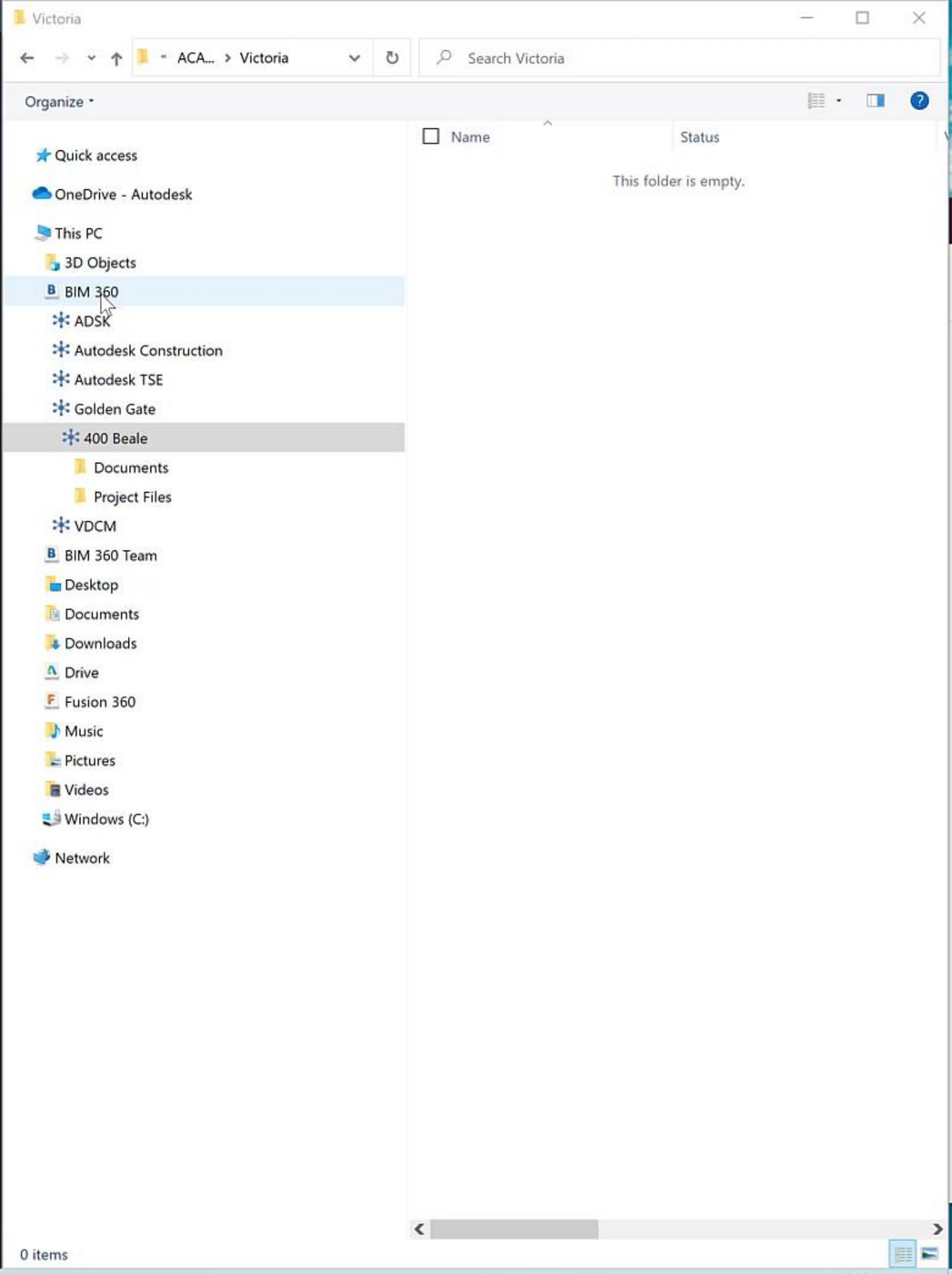
AutoCAD - Anywhere, Anytime



Desktop Connector

Leverage the free Desktop Connector to share AutoCAD DWGs or PDFs with BIM 360 and Autodesk Docs


TinyHouseMckinnon.dwg
Type a keyword or phrase
Victoria.Mckin...
Home
Insert
Annotate
Parametric
View
Manage
Output
Add-ins
Collaborate
Express Tools
Featured Apps
Layout
Line
Polyline
Circle
Arc
Text
Dimension
Layers
Block
Properties
Groups
Utilities
Clipboard
View
Select Mode
Draw
Modify
Annotation
Touch
Start
TinyHouseMckinnon*
North Elevation
East Elevation
South Elevation
West Elevation
Section A-A
KEY NOTES
WINDOW AND DOOR SCHEDULE
Mezzanine Floor Plan
Ground Floor Plan
Type a command
Model
Plans Sections... Elevations (2)
East Elevation
North Elevation
PAPER

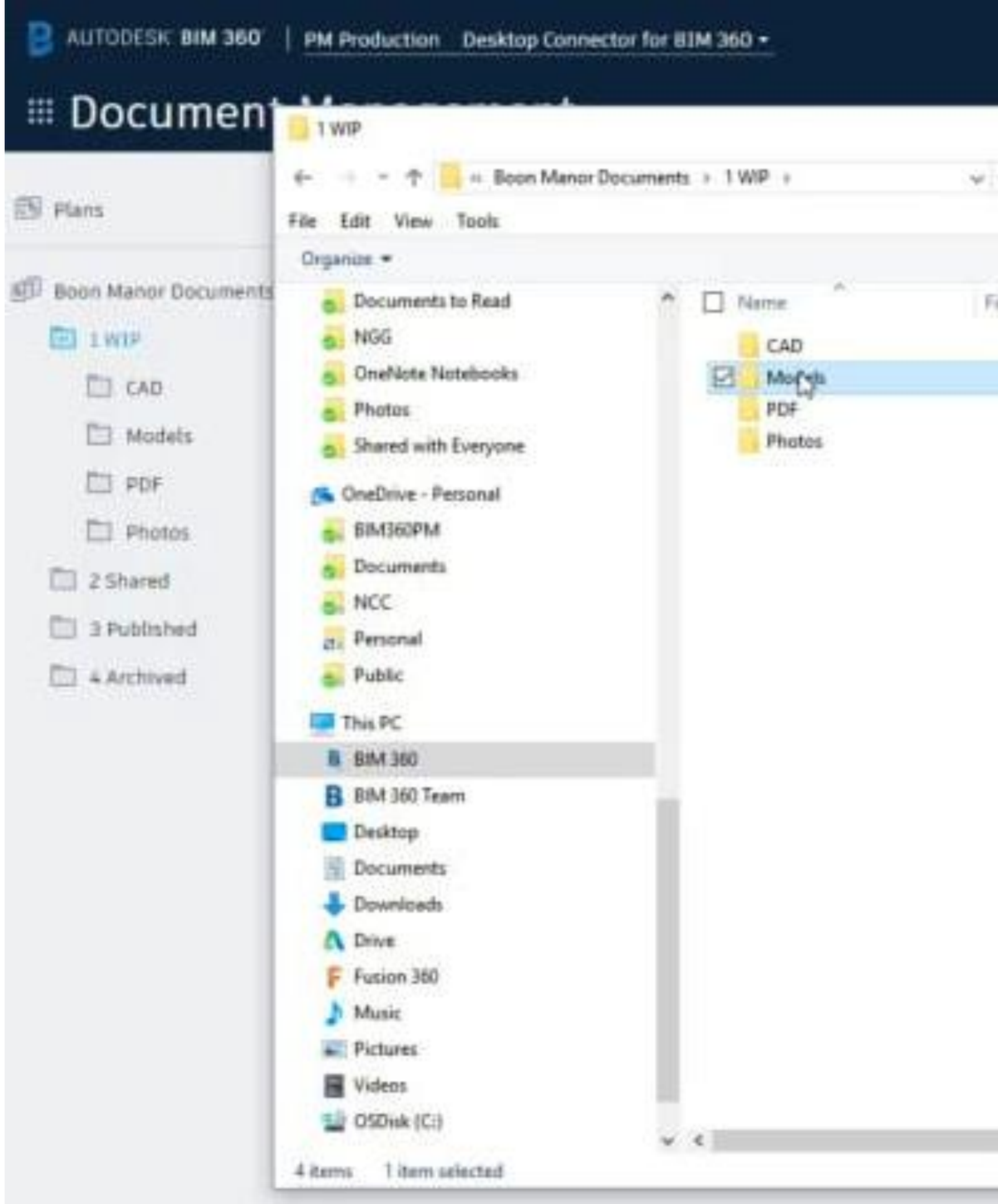

Victoria
ACA... › Victoria
Search Victoria
Organize
Quick access
OneDrive - Autodesk
This PC
3D Objects
BIM 360
ADSK
Autodesk Construction
Autodesk TSE
Golden Gate
400 Beale
Documents
Project Files
VDCM
BIM 360 Team
Desktop
Documents
Downloads
Drive
Fusion 360
Music
Pictures
Videos
Windows (C:)
Network
Name
Status
This folder is empty.
0 items

Type here to search
8:55 PM
10/12/2020

Download the desktop connector today for free

Available for download here:

https://www.autodesk.com/bim-360/desktop-connector/



Collaboration for Plant 3D

With BIM 360 Design, collaborate across a Plant 3D project

Autodesk AutoCAD Plant 3D Rogue Beta PID.dwg

Home | Isos | Structure | Analysis | Modeling | Visualize | Insert | Annotate | Manage | Output | Collaborate | Vault | Express Tools | Layout

Project Manager | Data Manager | Project

Route Pipe | Unassigned | 4" | DI Class 250 | Line to Pipe | PCF to Pipe | Part Insertion

Create Ortho View | Ortho Views

45° | 45° | Compass

Elevation | COP | Elevation & Routing

Rise : Run | Slope | Slope

Create | Pipe Supports

Create | Equipment

Show All | Visibility

2D Wireframe | Unsaved View | Single viewport | View

Layer Properties | 0 | Make Current | Match Layer | Layers

Start | Pumping Station* | PID*

PROJECT MANAGER

Current Project:

BIM for Water_5

Project

Search

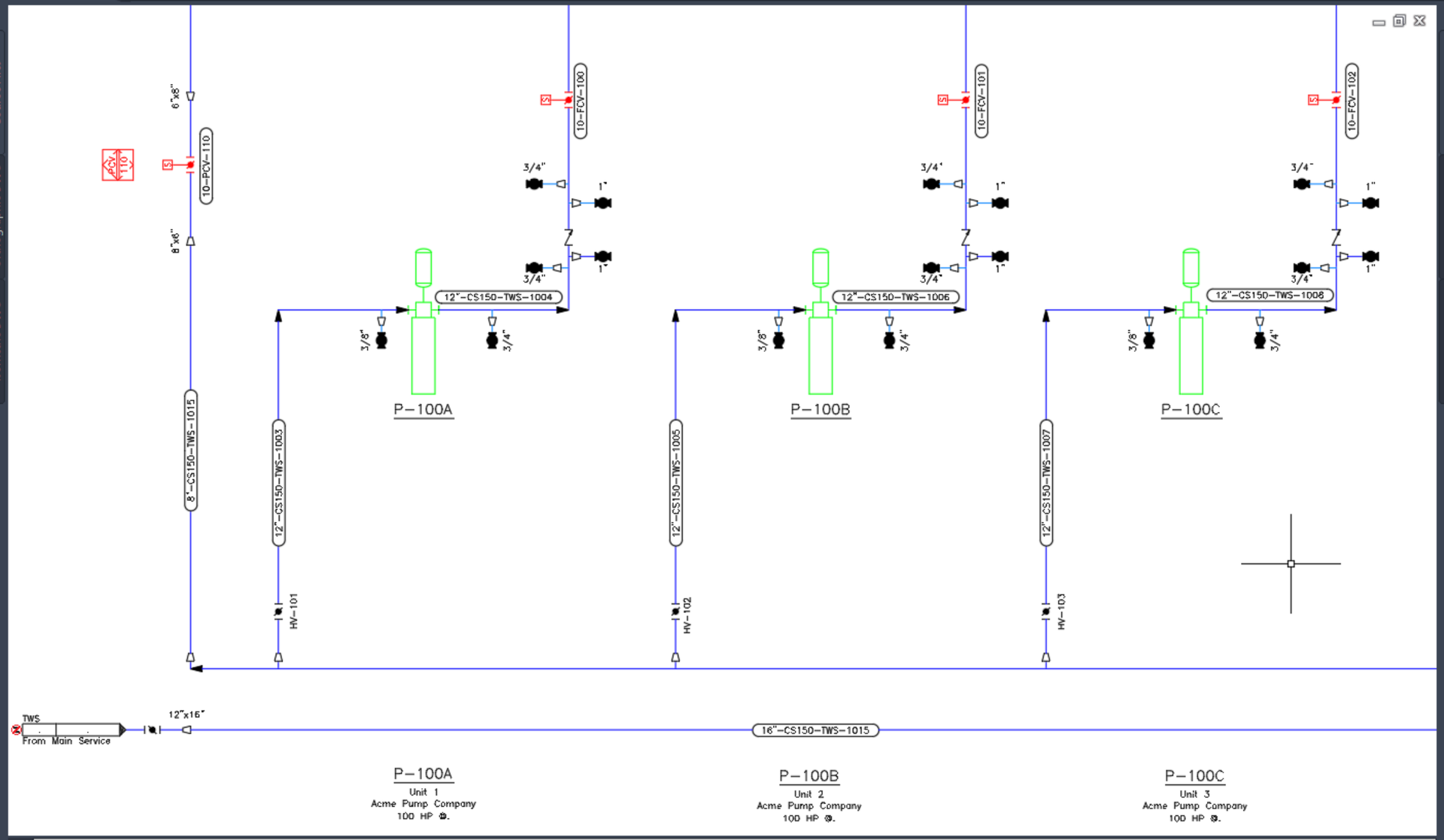
- BIM for Water
  - P&ID Drawings
    - PID
  - Plant 3D Drawings
    - Pumping Station
    - Utility Building Final
  - Pipe Specs
  - Related Files

Source Files | Orthographic DWG | Isometric DWG

Details

Status: File is accessible
Name: PID.dwg
File location: C:\Users\manzea\AppData\Local\
Number: 10-PID-001
File is locked by user 'manzea' on machine 'FA
File size: 927.48KB (949,742 bytes)
File creator: Andrew Manze
Last saved: 22 January 2020 00:02:45
Description: Pumping Station P&ID

Status: Checked out by you.
Last Checked in: Ben.wardell on 22 January 202
Comments:



Command:
Command: Drawing has been checked and is consistent with the project.
Type a command

TOOL PALETTES - AUTOC...

Dynamic Pipe Spec | Pipe Supports Spec | Instrumentation Spec

Add Custom Part

Spec: DI Class 250

Cross
- Cross,FL,FF,250 (DI Class 250)
- Cross,FL,FF,250 (DI Class 250)

Elbow
- Elbow,FL,FF,250 (DI Class 250)
- Elbow,FL,FF,250 (DI Class 250)

Flange
- Flange,FL,FF,250, (DI Class 250)

Pipe
- Pipe,PL (DI Class 250)

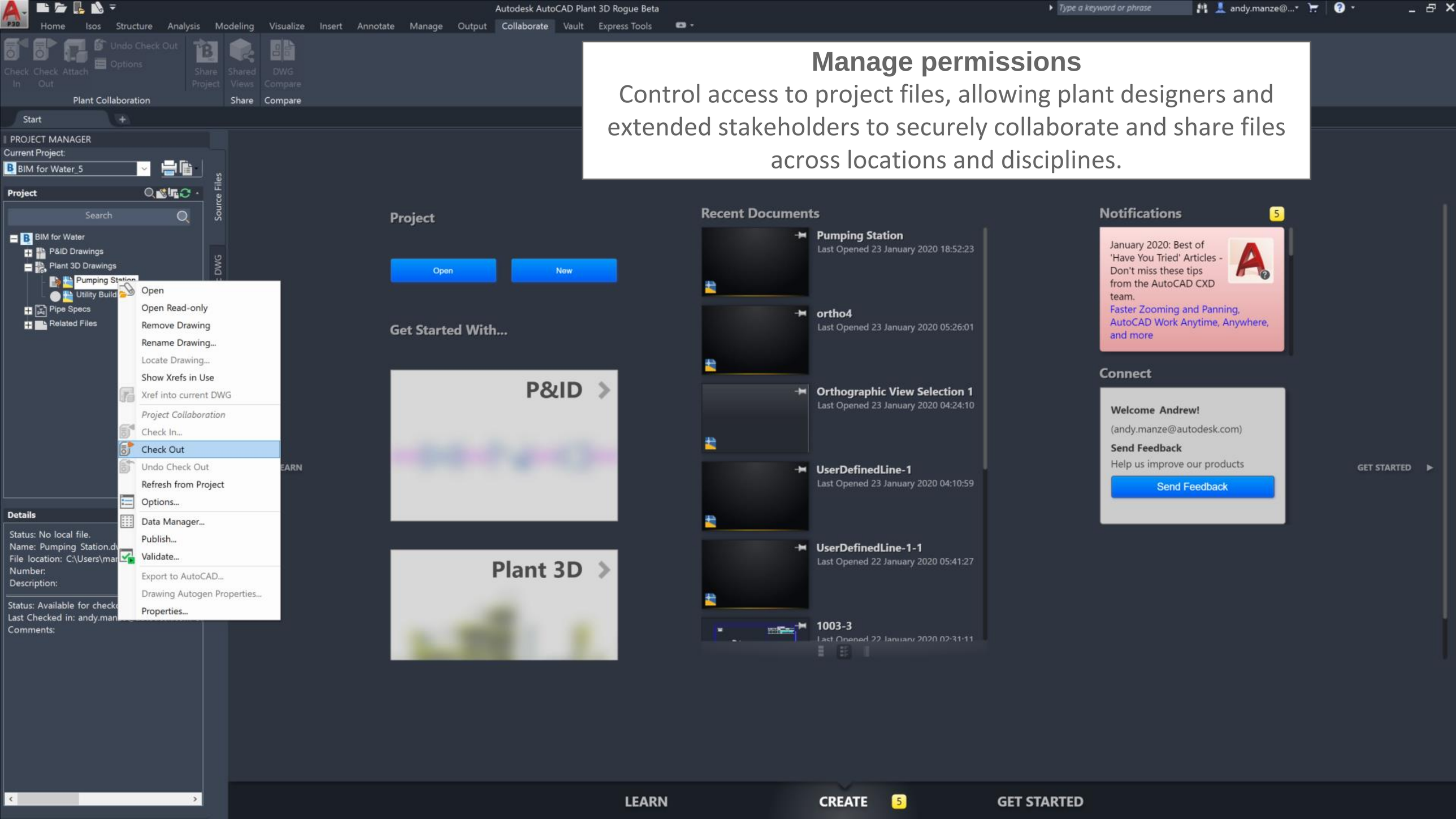
Reducer
- Reducer,FL,FF,250 (DI Class 250)

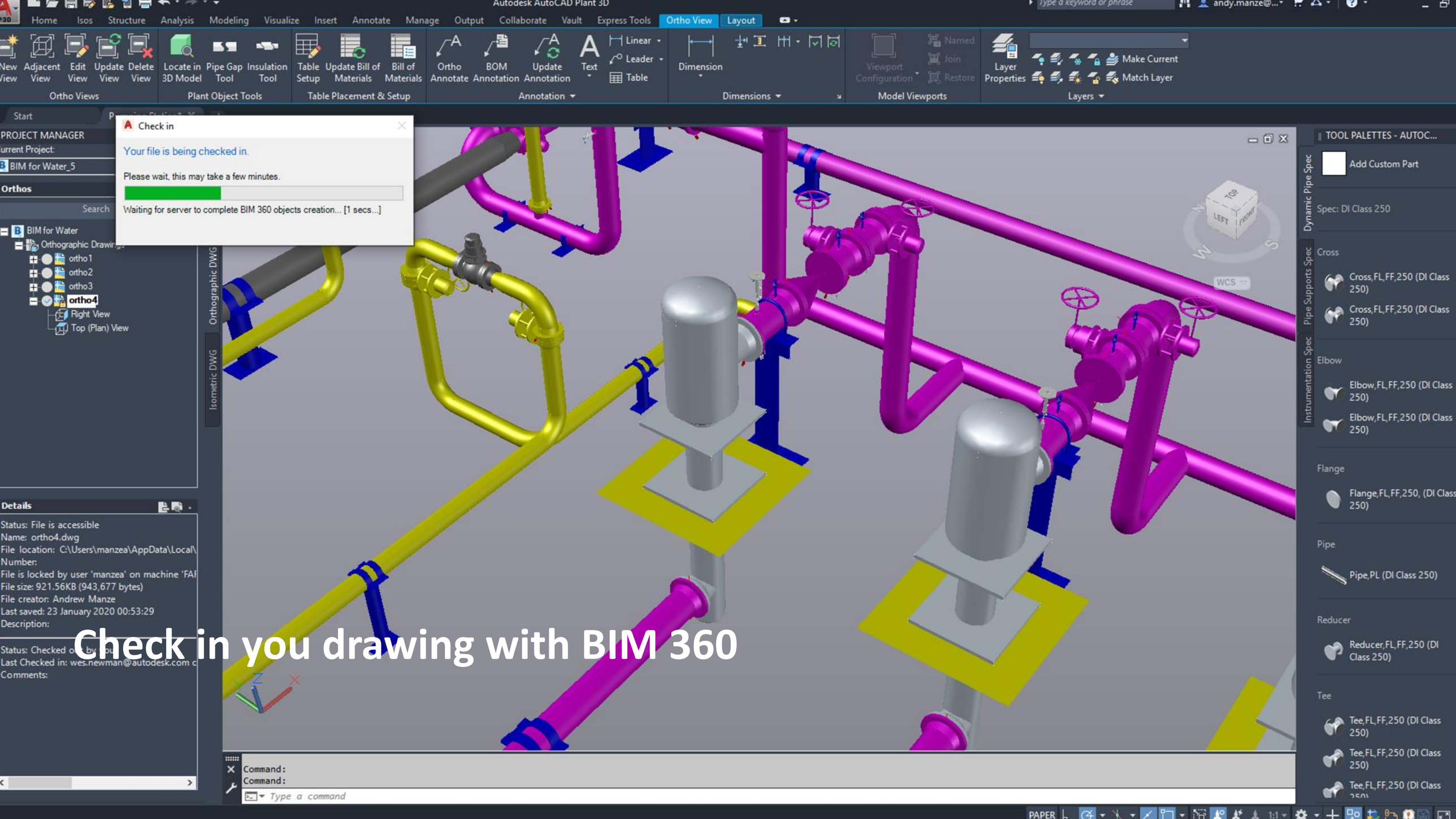
Tee
- Tee,FL,FF,250 (DI Class 250)
- Tee,FL,FF,250 (DI Class 250)
- Tee,FL,FF,250 (DI Class 250)

PAPER

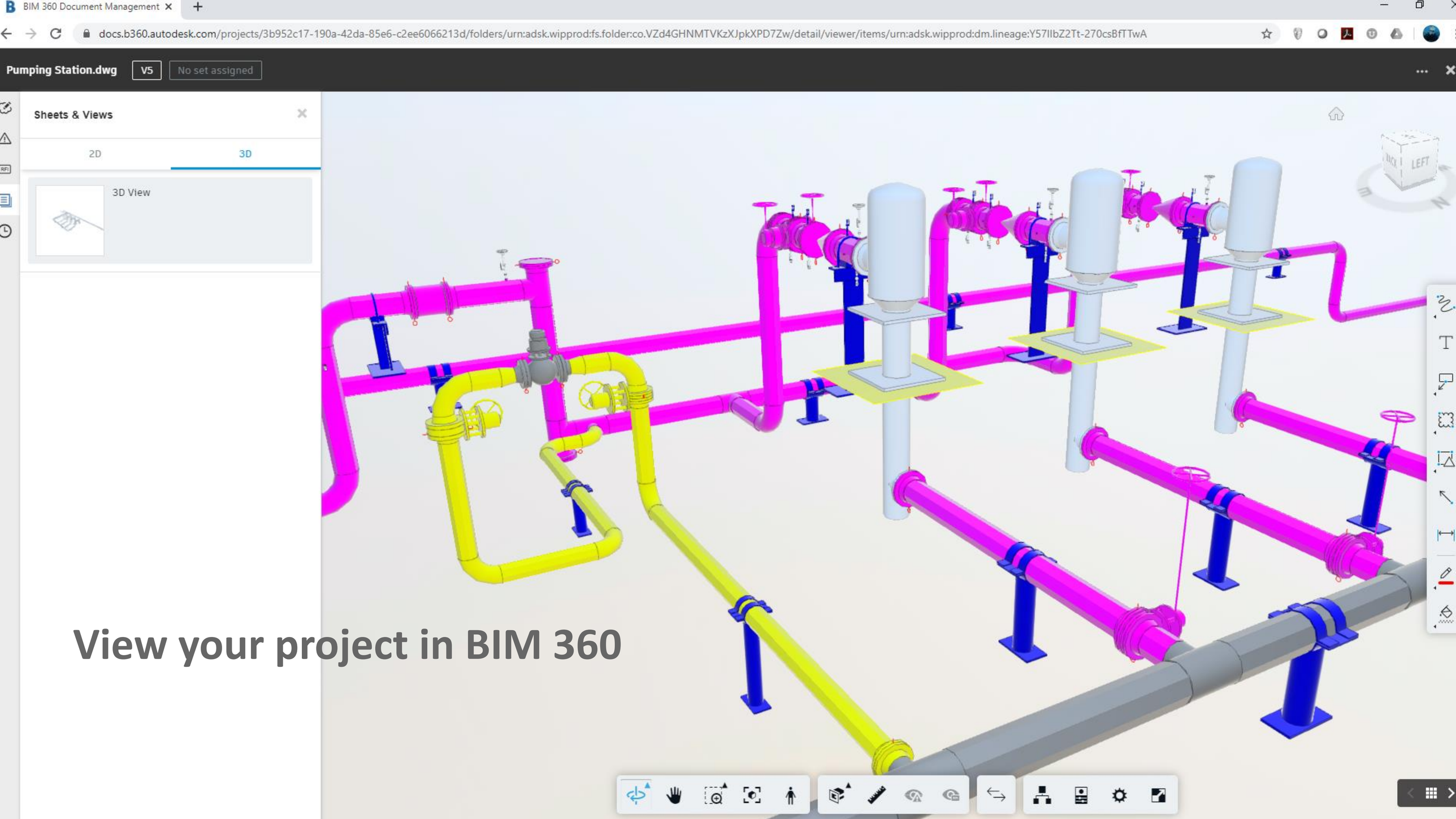
Manage permissions

Control access to project files, allowing plant designers and extended stakeholders to securely collaborate and share files across locations and disciplines.



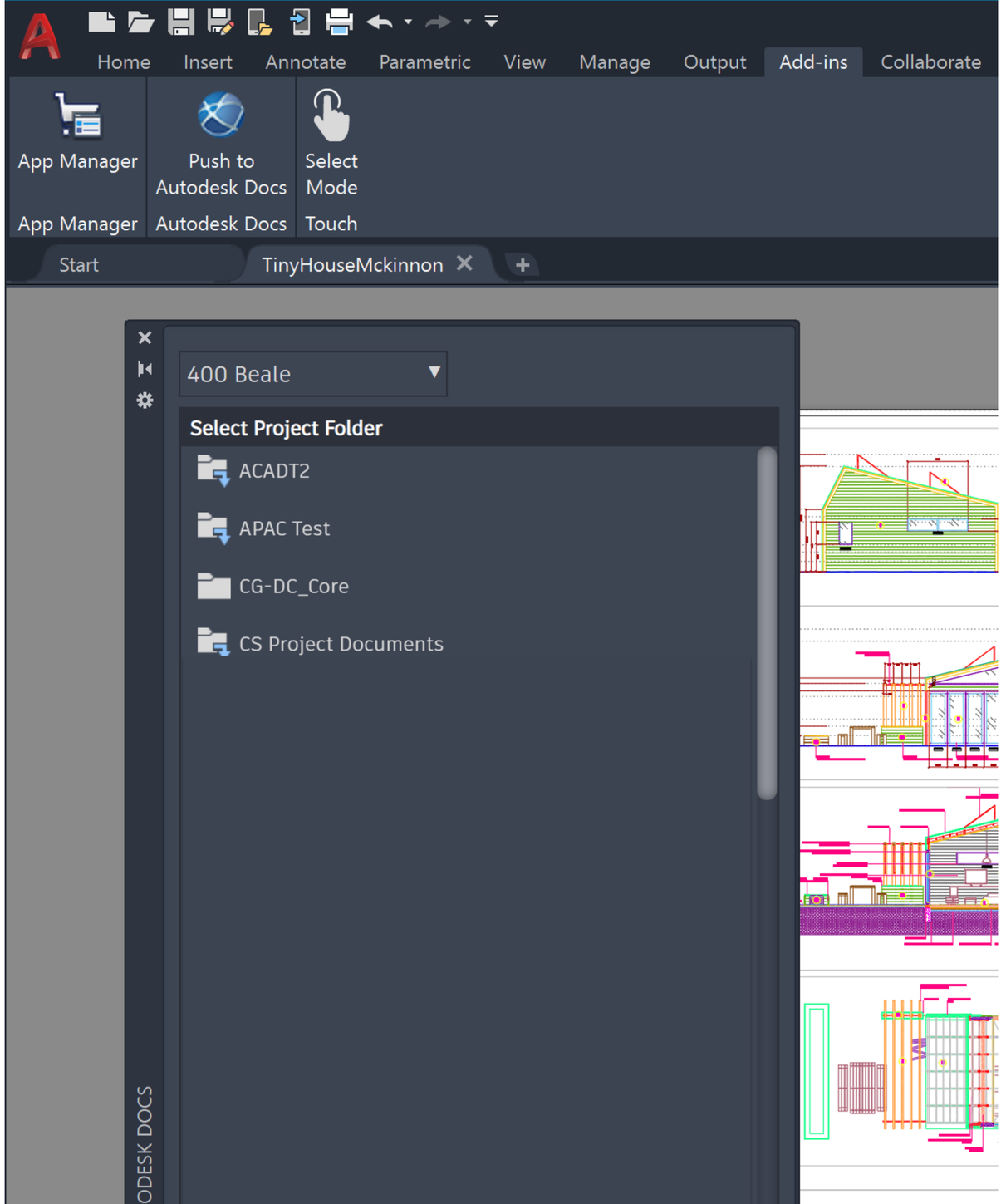


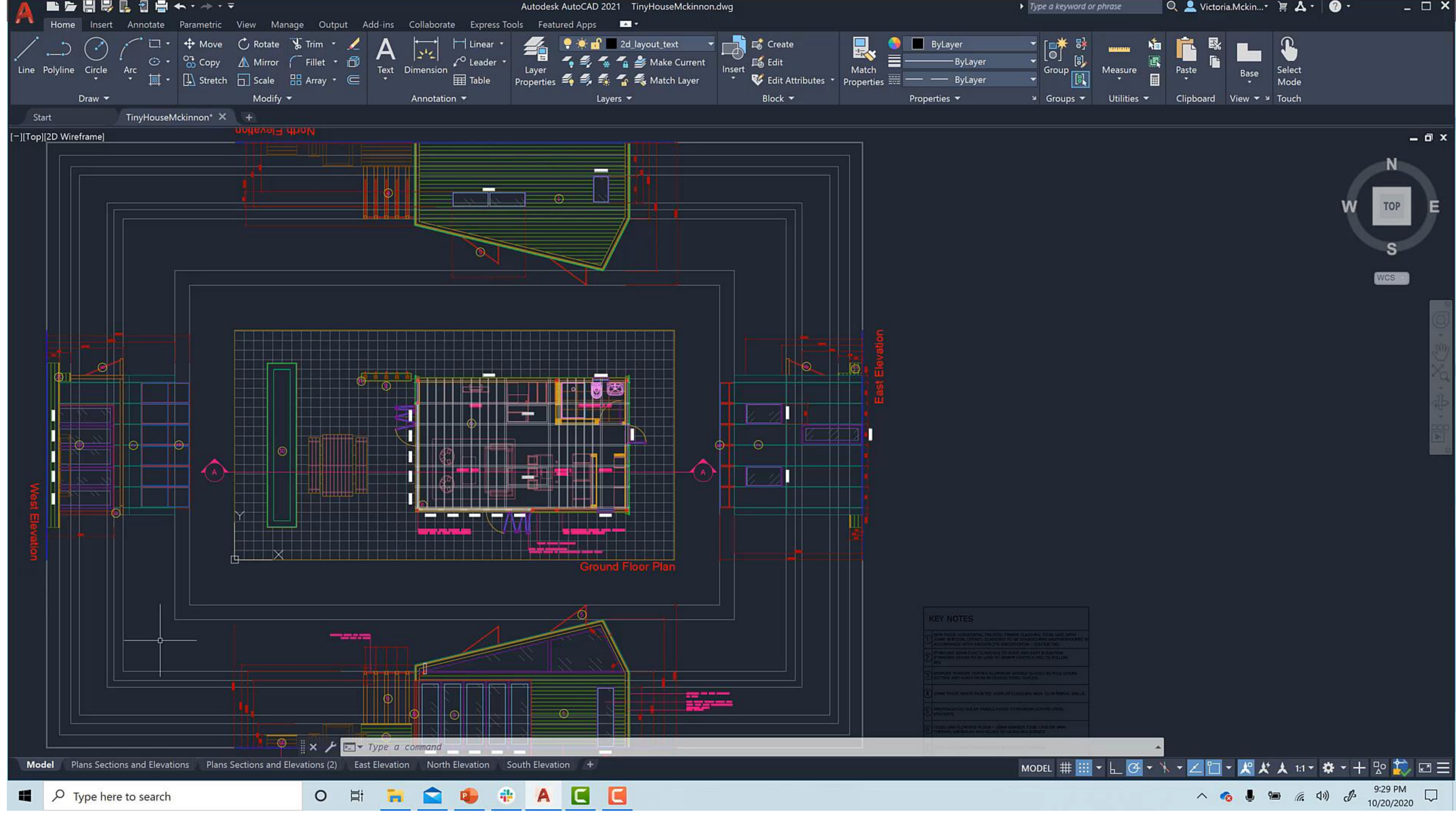
Check in you drawing with BIM 360


BIM 360 Document Management
docs.b360.autodesk.com/projects/3b952c17-190a-42da-85e6-c2ee6066213d/folders/urn:adsk.wipprod:fs.folder:co.VZd4GHNMTVKzXJpkXPD7Zw/detail/viewer/items/urn:adsk.wipprod:dm.lineage:Y57IlbZ2Tt-270csBfTTwA
Pumping Station.dwg
V5
No set assigned
Sheets & Views
2D
3D
3D View
View your project in BIM 360

New: Push to Autodesk Docs

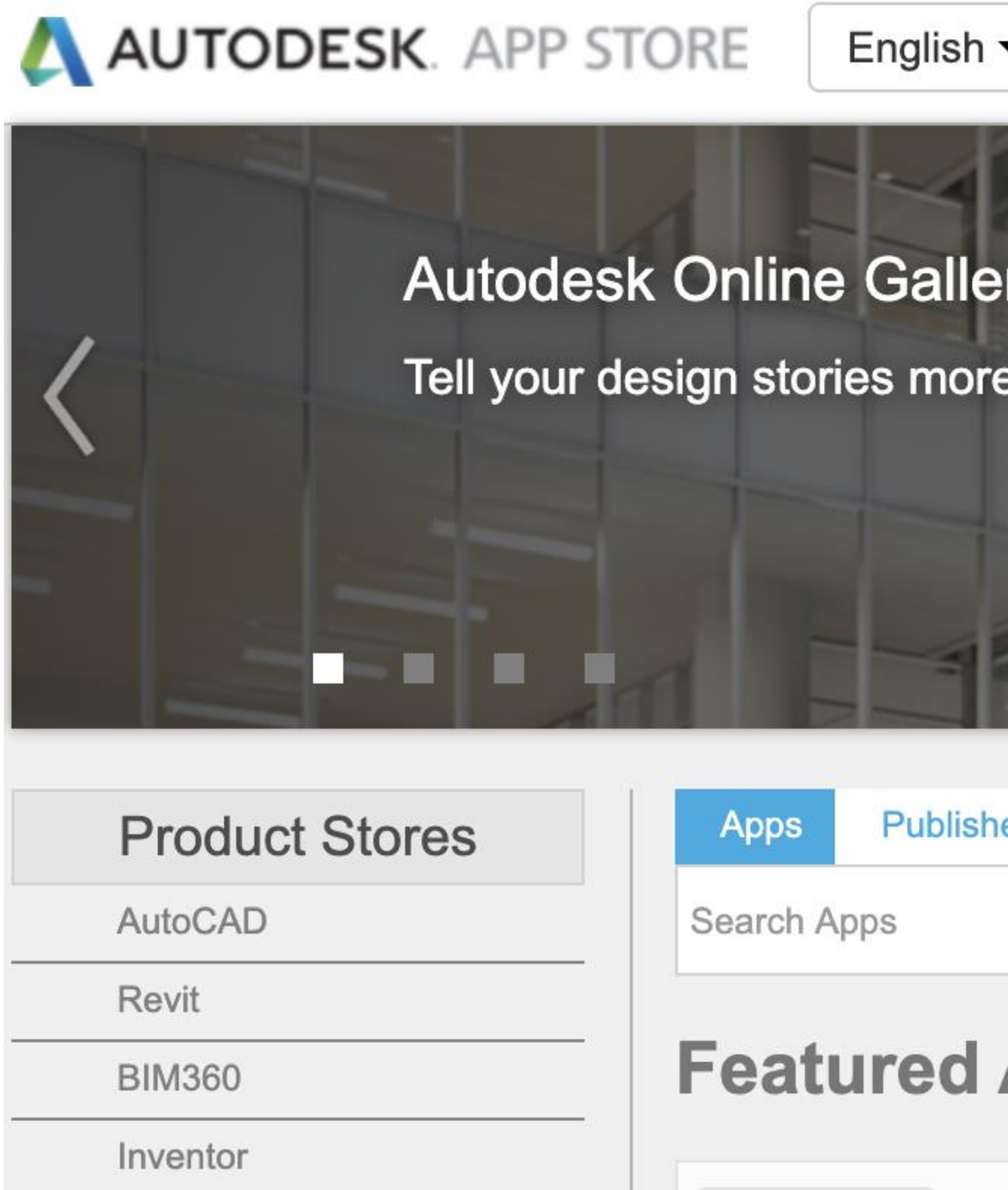
Send PDFs directly from AutoCAD to BIM 360 or Autodesk Docs projects




Autodesk AutoCAD 2021 TinyHouseMckinnon.dwg
Home Insert Annotate Parametric View Manage Output Add-ins Collaborate Express Tools Featured Apps
Line Polyline Circle Arc
Move Copy Stretch Rotate Mirror Scale Trim Fillet Array
Text Dimension Linear Leader Table
Layer Properties 2d_layout_text Make Current Match Layer
Insert Create Edit Edit Attributes
Match Properties ByLayer ByLayer ByLayer
Group Measure Paste Base Select Mode
Draw Modify Annotation Layers Block Properties Groups Utilities Clipboard View Touch
Start TinyHouseMckinnon*
[−][Top][2D Wireframe]
North Elevation
West Elevation
East Elevation
Ground Floor Plan
KEY NOTES
N W TOP E S
WCS
Type a command
Model Plans Sections and Elevations Plans Sections and Elevations (2) East Elevation North Elevation South Elevation
MODEL
Type here to search
9:29 PM 10/20/2020

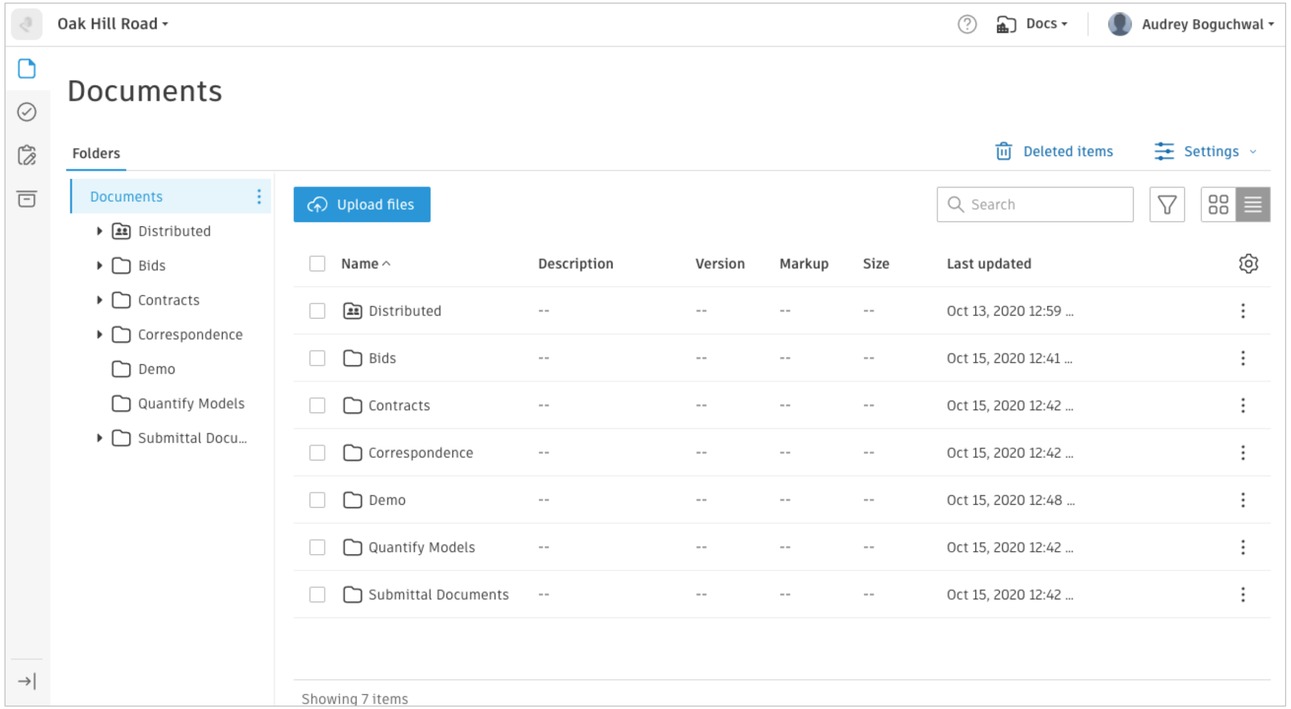
How to get access to “Push to Autodesk Docs”:

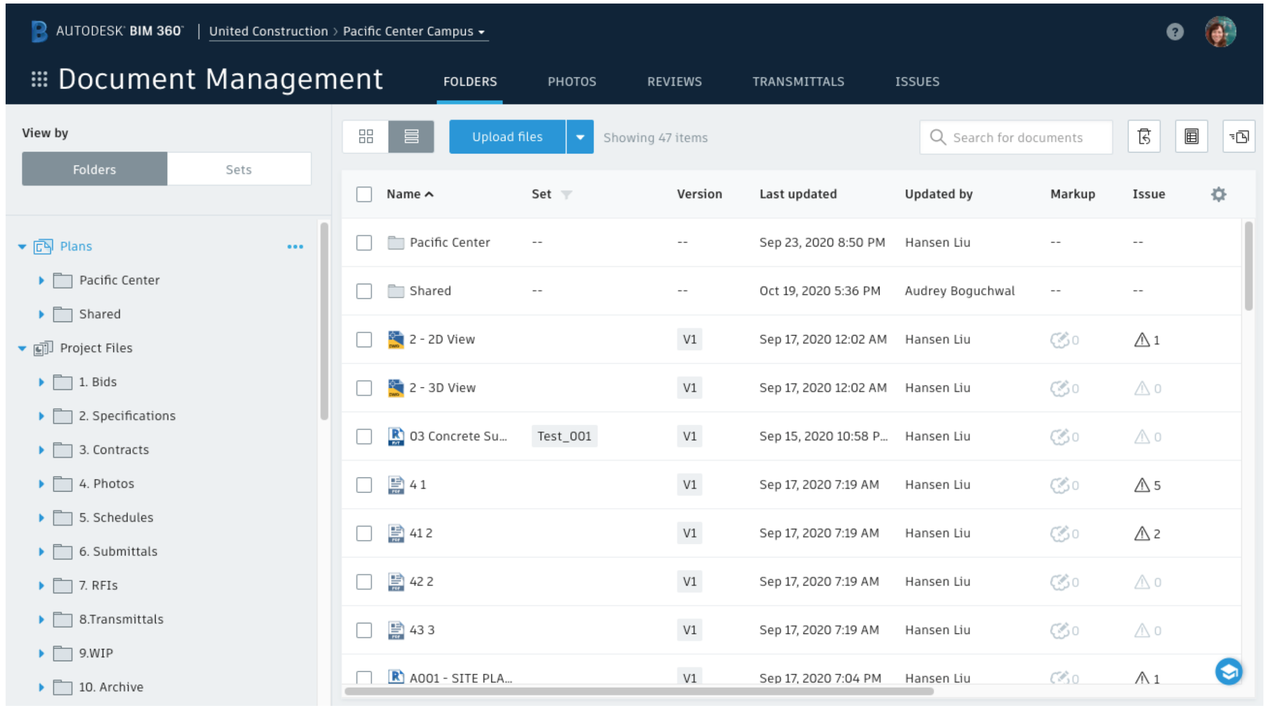
- **Visit the app store: https://apps.autodesk.com/en**
- **Search:** Autodesk® Docs Extension for AutoCAD®
- **Download the free plugin and install**
- **Available to all AutoCAD Subscribers**
  - AutoCAD 2018
  - AutoCAD 2019
  - AutoCAD 2020
  - Civil 3D & Advanced Steel
  - AutoCAD Specialized Toolsets 2018-current



Autodesk Docs

Document collaboration and management



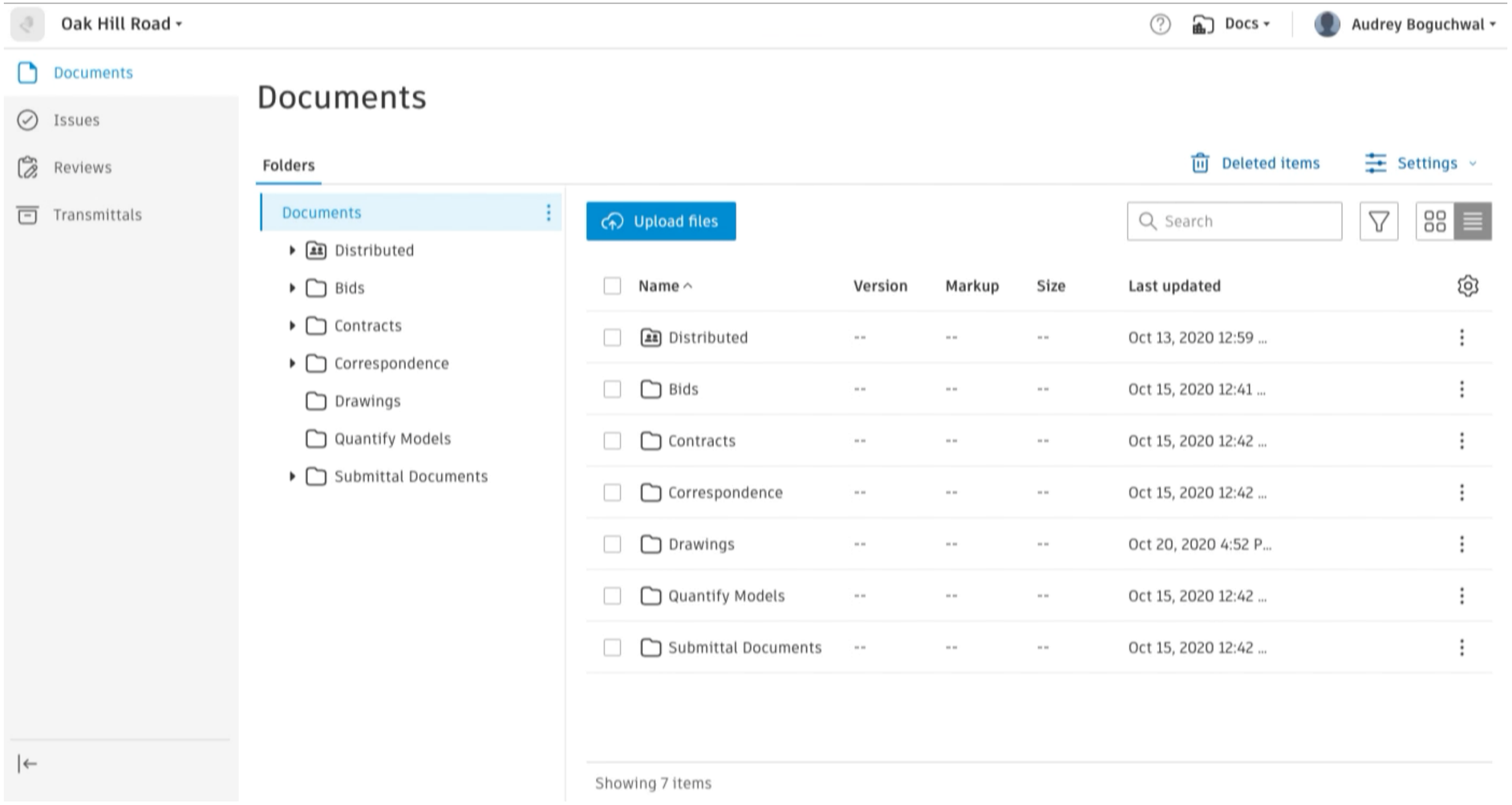


Autodesk Docs

- Fully integrated in the Autodesk Construction Cloud
- Unifies design to construction workflows
- Supports published PDFs from AutoCAD

BIM 360 Docs

- Publish to existing BIM 360 projects
- Supports published PDFs from AutoCAD


Oak Hill Road
Docs
Audrey Boguchwal
Documents
Issues
Reviews
Transmittals
Documents
Folders
Deleted items
Settings
Documents
Distributed
Bids
Contracts
Correspondence
Drawings
Quantify Models
Submittal Documents
Upload files
Search
Name
Version
Markup
Size
Last updated
Distributed -- -- -- Oct 13, 2020 12:59 ...
Bids -- -- -- Oct 15, 2020 12:41 ...
Contracts -- -- -- Oct 15, 2020 12:42 ...
Correspondence -- -- -- Oct 15, 2020 12:42 ...
Drawings -- -- -- Oct 20, 2020 4:52 P...
Quantify Models -- -- -- Oct 15, 2020 12:42 ...
Submittal Documents -- -- -- Oct 15, 2020 12:42 ...
Showing 7 items

Autodesk Build

Sheets & Documents

Autodesk Build Capabilities

Capabilities	Doc Management	Project Management	Quality Management	Safety Management	Turnover	Cost Management
Workflows	• Document Control • Document Versioning • Document Approvals	• RFIs • Submittals • Meeting Minutes • Daily Reports • Progress Tracking	• Quality Planning • Quality Checking • Punchlists • Issue/Task Management	• Safety Planning • Safety Training • Safety Observations • Safety Inspections	• Commissioning • Turnover Documentation • Warranty Mgmt. • Final Completion • As-Built Survey	• Contract Creation / Administration • Change Orders • Payment Applications • Forecasting
Unified Data	Models · Drawings · Documents · Cost Items · Assets · As-Builts · Photos · Videos					
Insights	Dashboards · Reports · Construction IQ · Data Connector					
Admin	Admin Console · Permissions · Project Setup · Templates · Notifications					

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Sheets

Select drawing & Publish

Publish to distribute to the field

OCR technology

Scans, links, and labels all sheets

Review

Confirm sheet information

Sheets

Sheets are available in Autodesk Build & synced to all devices

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Home
Sheets
Documents
Issues
Forms
Photos
RFIs
Submittals
Meetings
Team
Settings

Documents

Folders

Deleted items
Settings

Documents
- Distributed
- Bids
- Contracts
- Correspondence
- Drawings
- Quantify Models
- Submittal Docu...

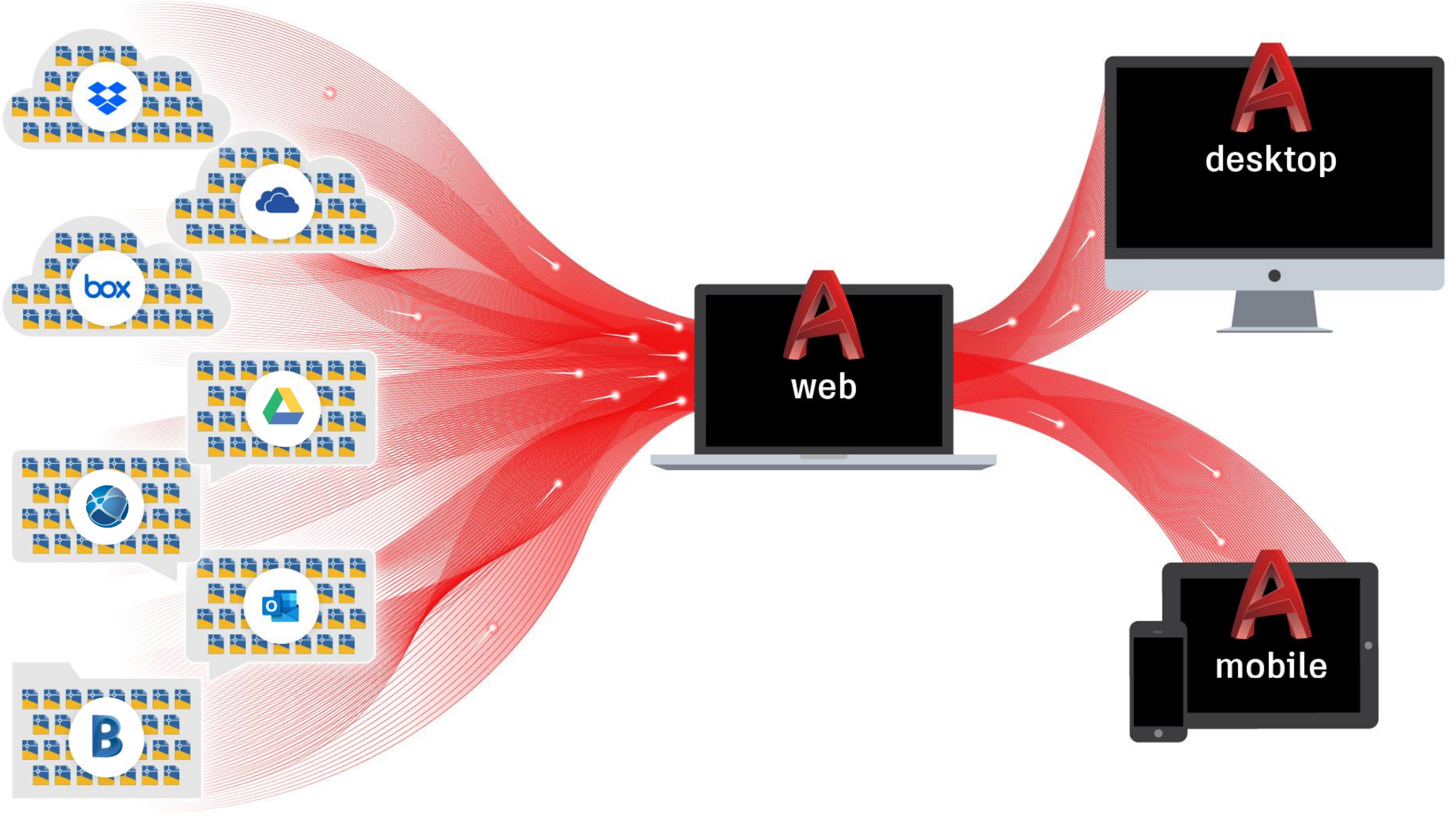
Upload files

Search

Name	Description	Version	Size	Last updated	Updated by
TinyHouseMckinnon....		V1	7.2 MB	Oct 12, 2020 3:25 P...	Alyssa Weis
TinyHouseMckinnon....		V1	890.9 KB	Oct 12, 2020 3:49 P...	Alyssa Weis

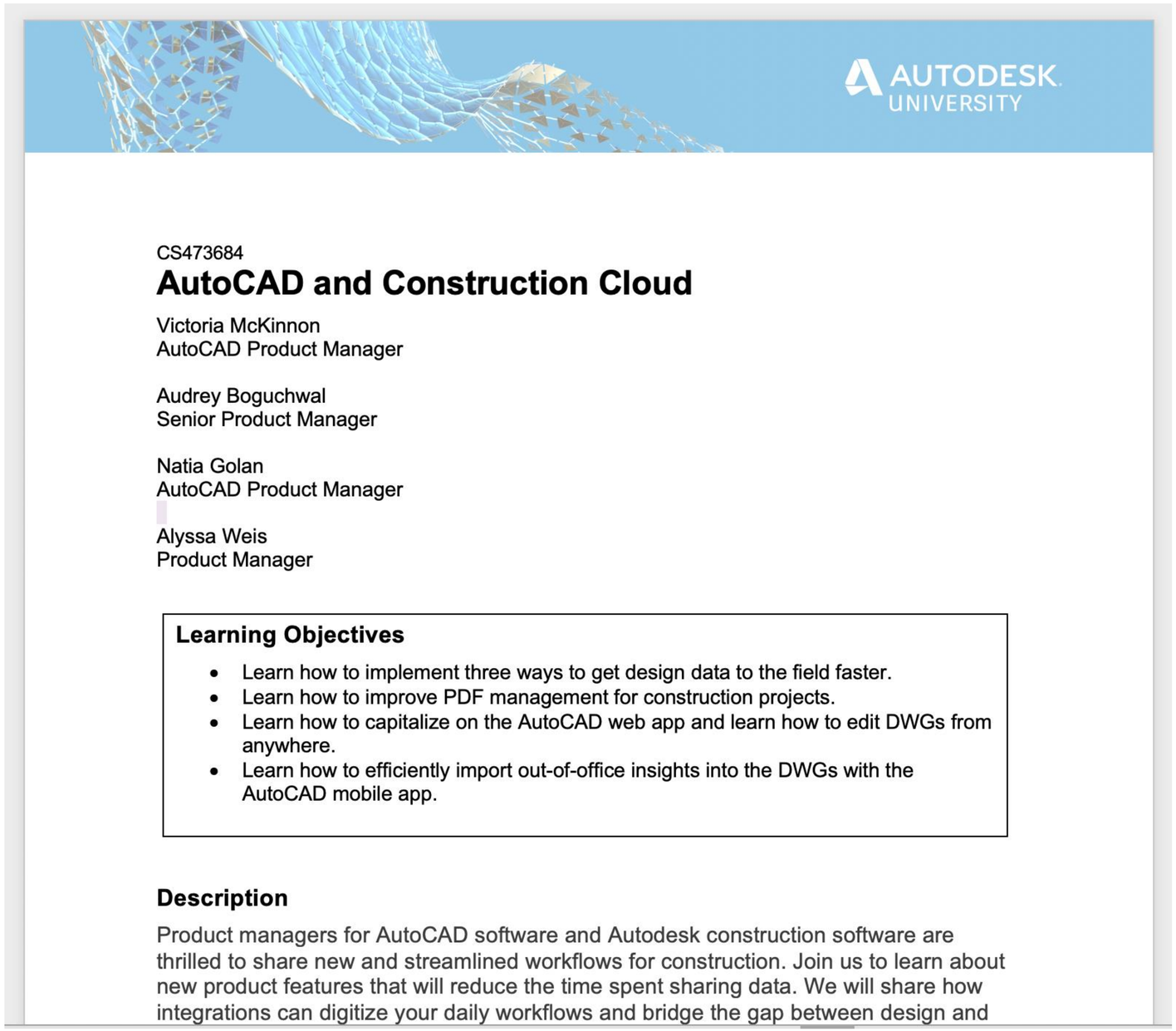
Showing 2 items

Cloud Connections


box
web
desktop
mobile

Thank you

Important links available on the class handout



AUTODESK UNIVERSITY

CS473684

AutoCAD and Construction Cloud

Victoria McKinnon
AutoCAD Product Manager

Audrey Boguchwal
Senior Product Manager

Natia Golan
AutoCAD Product Manager

Alyssa Weis
Product Manager

Learning Objectives

- Learn how to implement three ways to get design data to the field faster.
- Learn how to improve PDF management for construction projects.
- Learn how to capitalize on the AutoCAD web app and learn how to edit DWGs from anywhere.
- Learn how to efficiently import out-of-office insights into the DWGs with the AutoCAD mobile app.

Description

Product managers for AutoCAD software and Autodesk construction software are thrilled to share new and streamlined workflows for construction. Join us to learn about new product features that will reduce the time spent sharing data. We will share how integrations can digitize your daily workflows and bridge the gap between design and

Please join us for our live Q&A November 18th 8 AM PST

VICTORIA MCKINNON

AUDREY BOGUCHWAL

ALYSSA WEIS

NATIA GOLAN

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