

Autodesk® 360 with AutoCAD® 360 Web/Mobile: How Powerful Are These Tools?

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Class summary

In this hands-on-lab:

- I share my experience on these tools
- I identify its main strong and weak points and how to avoid them in typical design tasks
- You will practice with desktop, mobile, and cloud configurations, in individual and concurrent design

Key learning objectives

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

- **Configure** AutoCAD on your desktop and the AutoCAD 360 web service and software for mobile devices to work with Autodesk 360 cloud services
- **Carry out** an individual and concurrent **design process** using AutoCAD® 360 via a browser and AutoCAD® 360 on a mobile device
- **Carry out** and control a **product data management** (PDM) process with design data stored both locally and on the cloud
- **Assess** the effectiveness and limitations and select the appropriate workflow in your enterprise or design office

Prerequisites

To work unaided after AU 2013:

- You should have good knowledge of Autodesk® **AutoCAD®** software **at least the level: „AutoCAD Essentials” authorized course**
- You should work strictly according to the detailed step-by-step instructions from handouts

Introduction

Cloud Computing (CC) – what this really is?

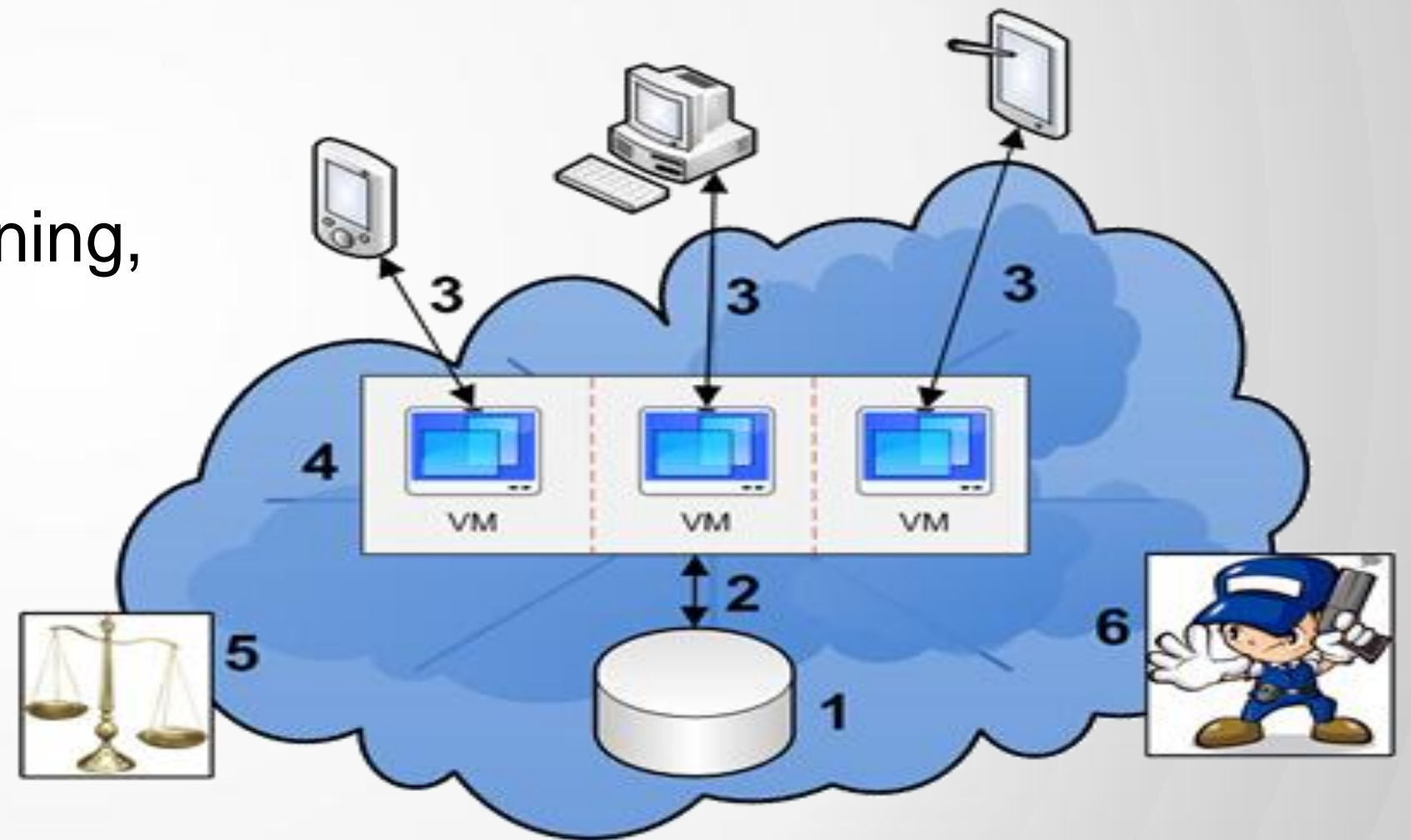
- The CC Term Origin

„Computation may someday be organized as a public utility”, *J. McCarthy, 1961*

- Simple definition

- Computation, in its general meaning, organized and provided as a service, like:
 - running water,
 - electricity,
 - etc.

- “Cloud” solutions are modeled on the early Multi-Access Systems



Advantages of Cloud Computing

- Lower cost
 - Practically no hardware and software costs of entry
- Higher performance
 - Performance on demand, possibility of using e.g. HPC Clusters
- Much lower maintenance needed
 - Maintenance is done by Cloud Computing provider
- Unlimited storage capacity
- Higher security *
 - Data are centralized

Weak points of Cloud Computing

- Needs a permanent and stable Internet connection
- Dependency of the third party company
 - Security and stability issues *
 - Our services are only as stable and trusted as the CC provider is
- Unpredictable cost of the services used
 - Maintenance is done by Cloud Computing provider

AutoCAD family Cloud Computing software and services

- Autodesk 360
 - Cloud platform for accessing several Autodesk cloud services
- AutoCAD **360 Web**:
 - Free sketching and drafting web application (formerly AutoCAD WS)
- AutoCAD **360 Mobile**
 - Free sketching and drafting mobile application
- AutoCAD
 - 3D CAD system on your desktop (since 1982)

Typical workflows

- **Mixed workflow**
 - **Upload** your data from a desktop computer to the cloud
 - **Do your work** with AutoCAD 360 **Web** or AutoCAD 360 **Mobile**
 - **Download** your data back to the desktop computer (or mobile device)
- **Cloud-concentrated workflow**
 - Place your data on the cloud
 - Do your work with AutoCAD, AutoCAD 360 **Web** or AutoCAD 360 **Mobile**

Hands-on-lab DataSet (To work unaided after AU 2013)

- Navigate to: **AC2241-L or AC4127-L - CopyTheseFilesToYourDesktop**



- Copy the whole contents of the folder to your **Desktop**

Google Chrome configuration

- Launch the Internet browser (Google Chrome)
- Choose Settings
- Set Google Chrome as **Default** browser
- Set **Download location** to:
... Desktop\AC2241-L\DOWNLOAD
- Close the browser

AutoCAD 360 Web working via a browser (after AU 2013)

You should work strictly according to the detailed step-by-step instructions from handouts

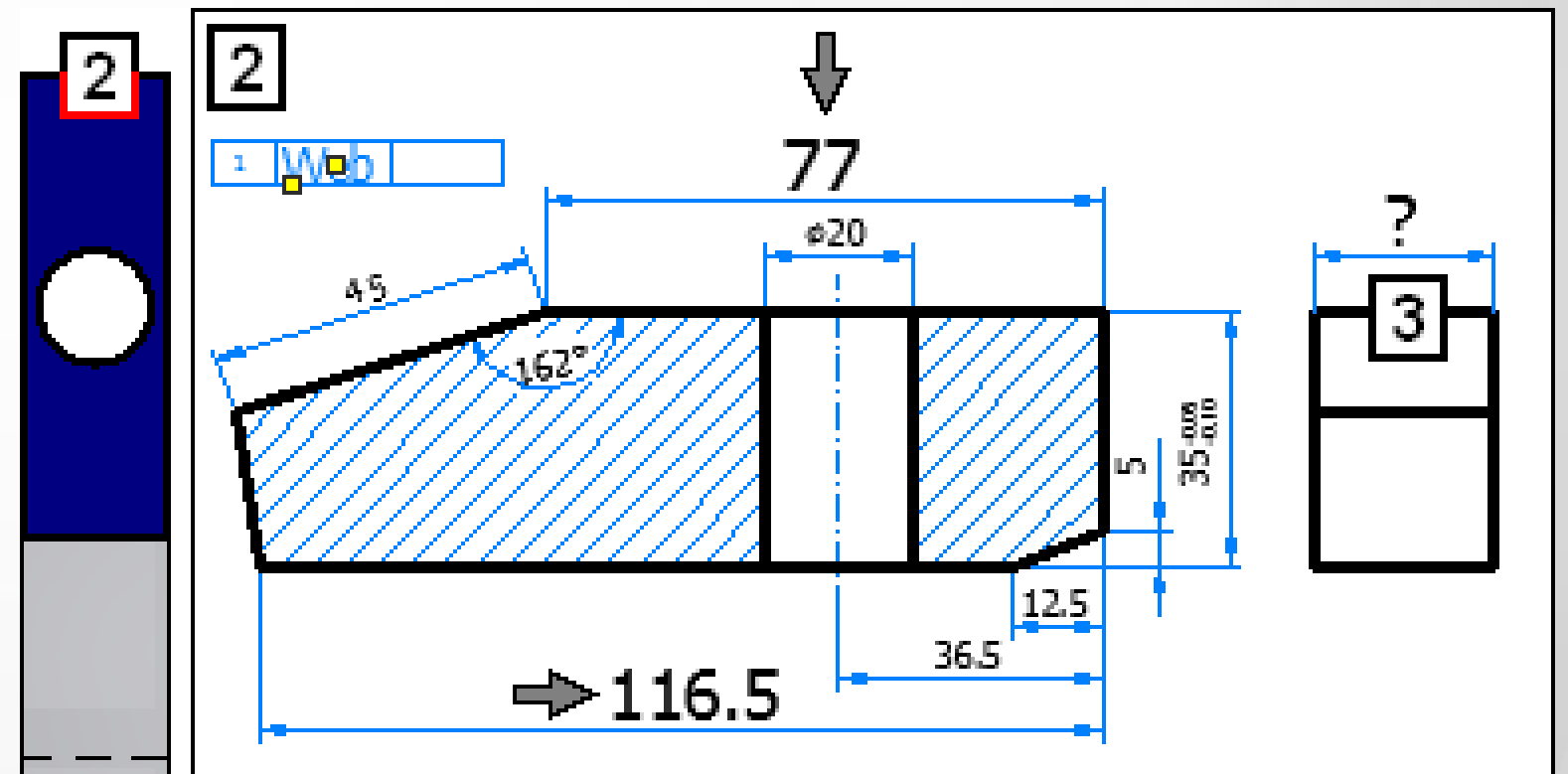
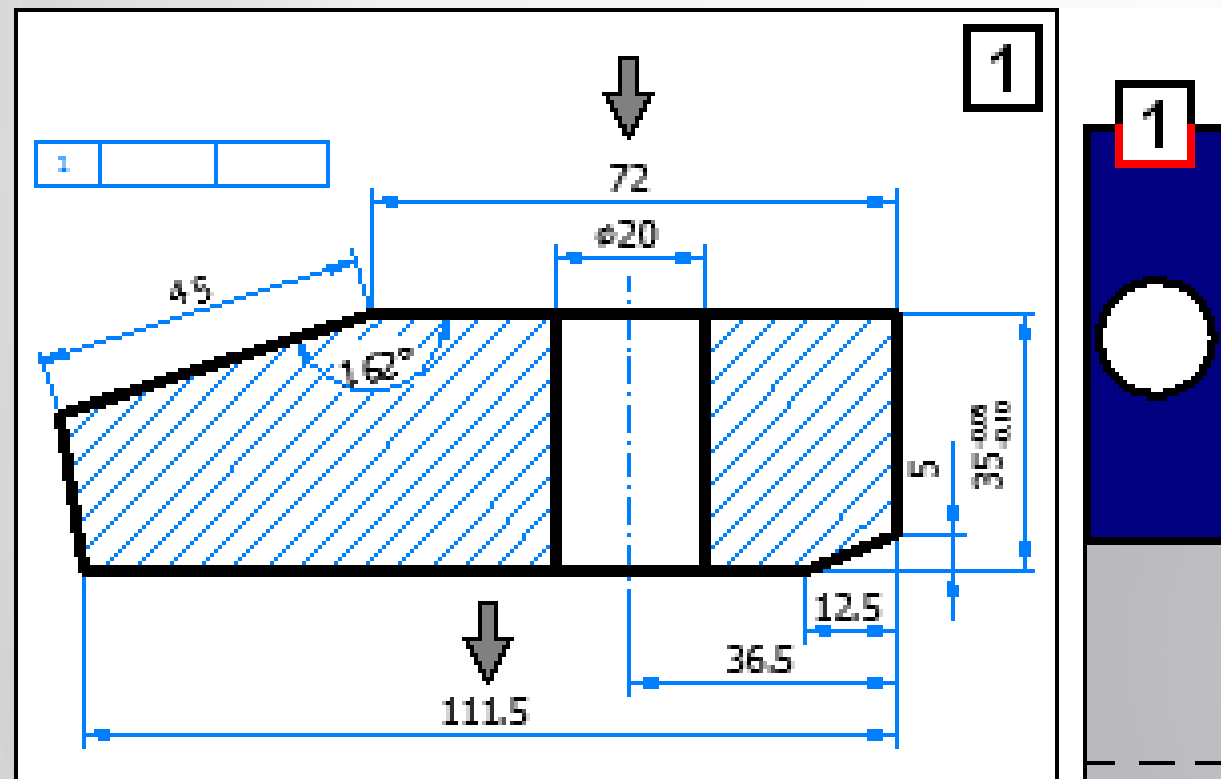
- Launch the Internet browser (Google Chrome)
 - Check the browser configuration (download location)
- Log in to the AutoCAD 360 Web
 - Your user name is: *Use Your Own Account*
 - Your password is: *Use Your Own Password*
- Upload files from:
AC2241-L or AC4127-L - UploadTheseFilesToTheCloud At The Beginning to the cloud (see: 2.1.2. Uploading drawing files to the cloud, p. #7)

Ex1 – Description of the design task

Design to be modified during the session:

Initial version

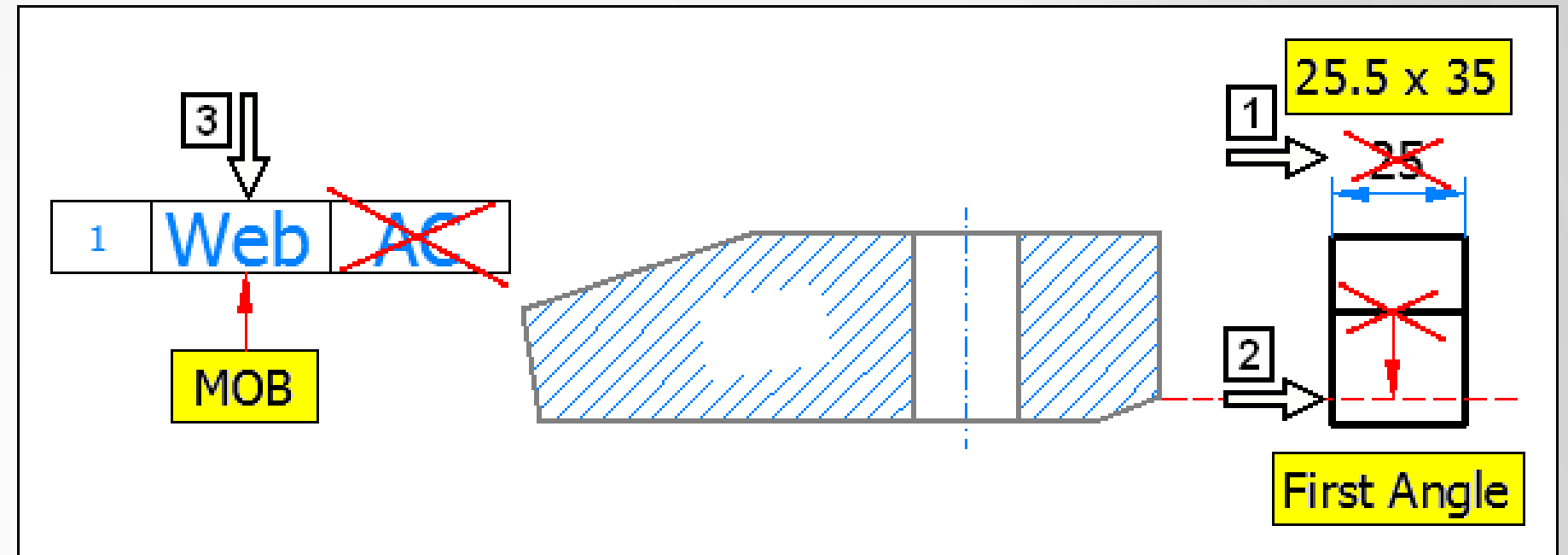
The final version expected



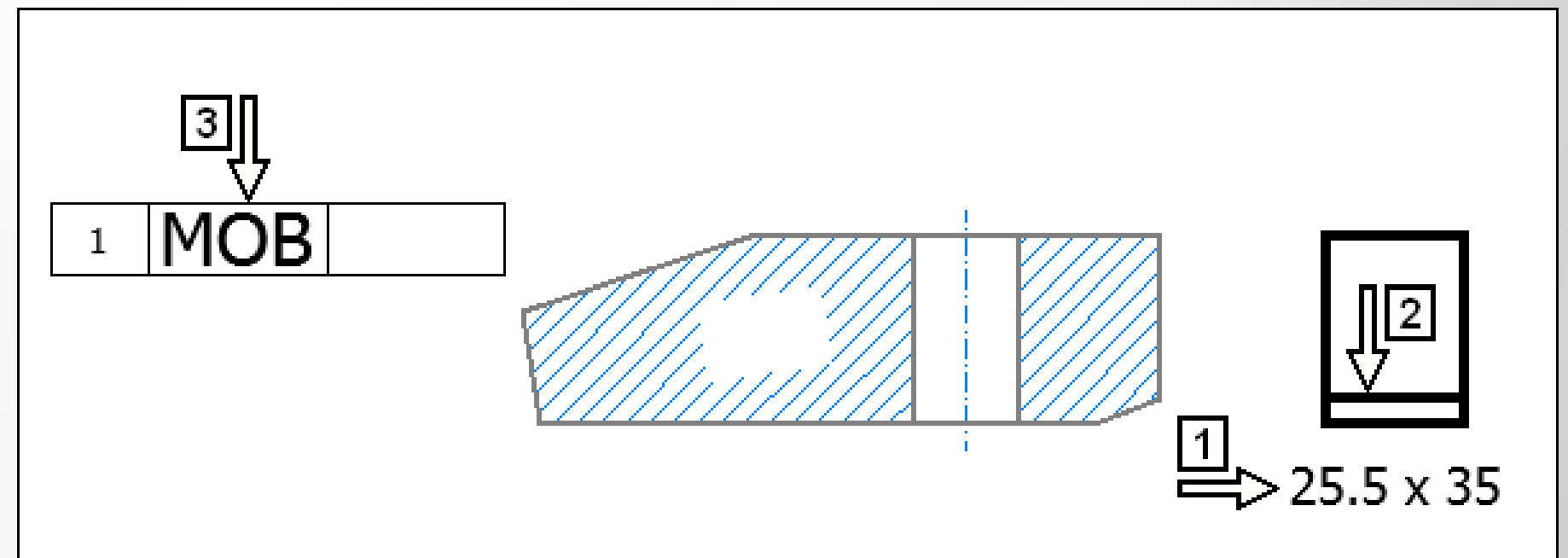
AutoCAD 360 Mobile (after AU 2013)

You should work strictly according to the detailed step-by-step instructions from handouts

Design to be modified



The final version
expected



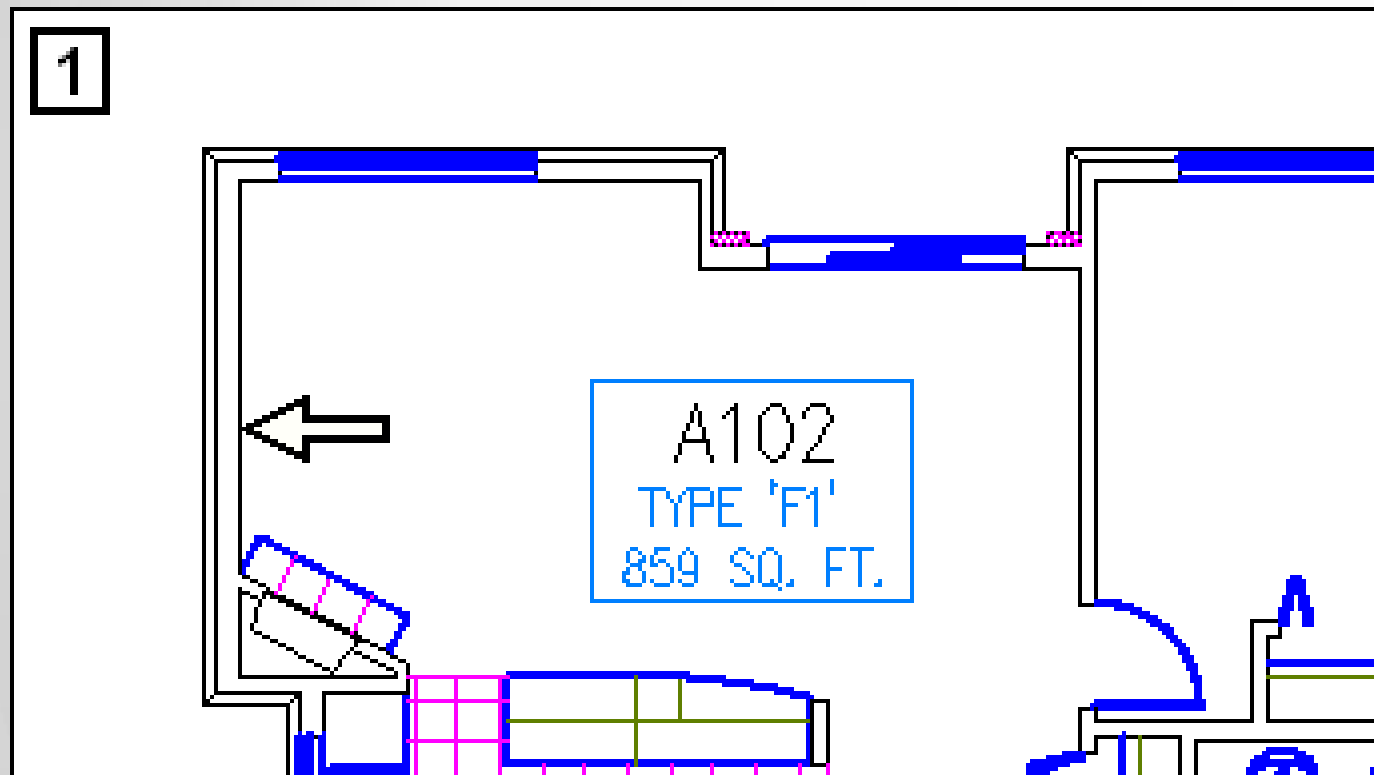
Elements of Concurrent Design (CD) – after AU 2013

You should work strictly according to the detailed step-by-step instructions from handouts

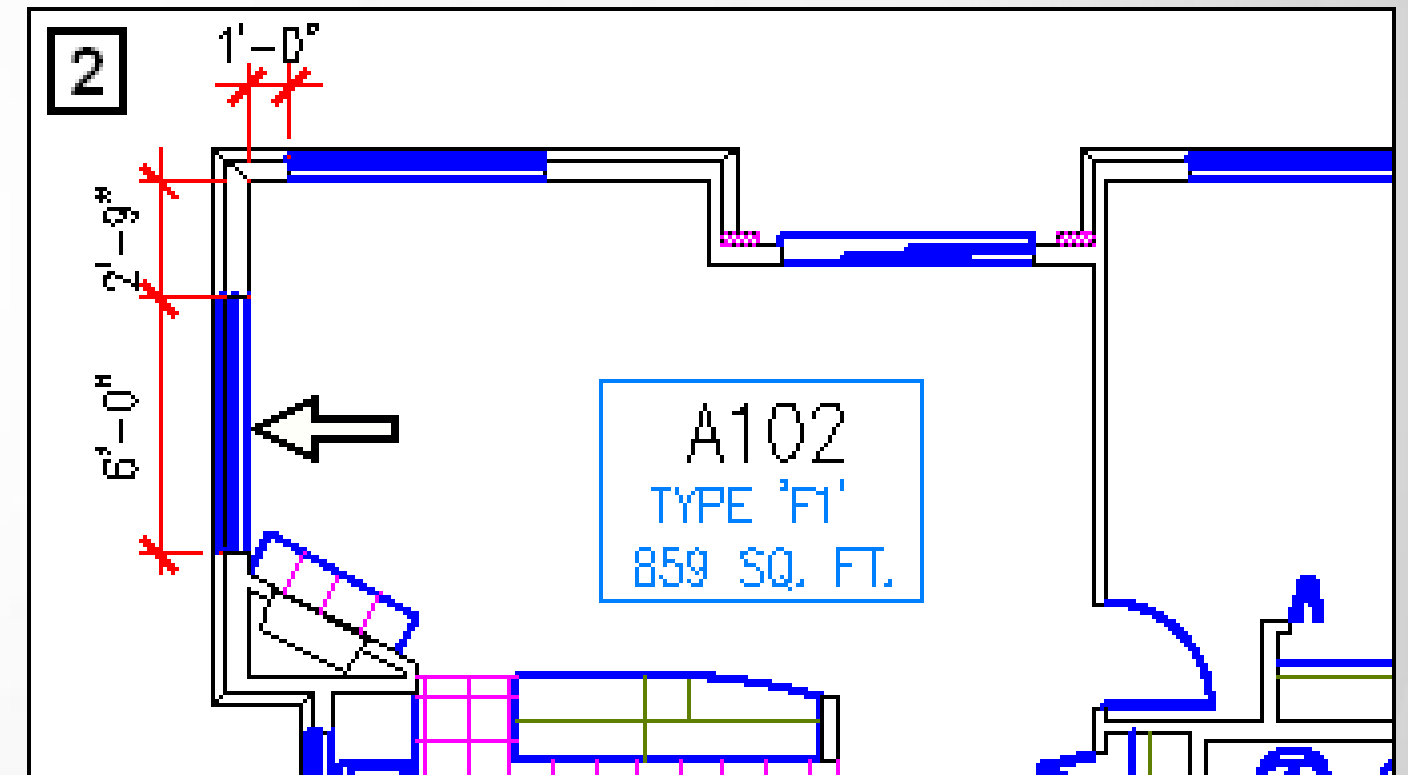
Concurrent Design (p. #35): **Ex3 – Description of the design task**

Which version of the block of flats has been completed?

This?



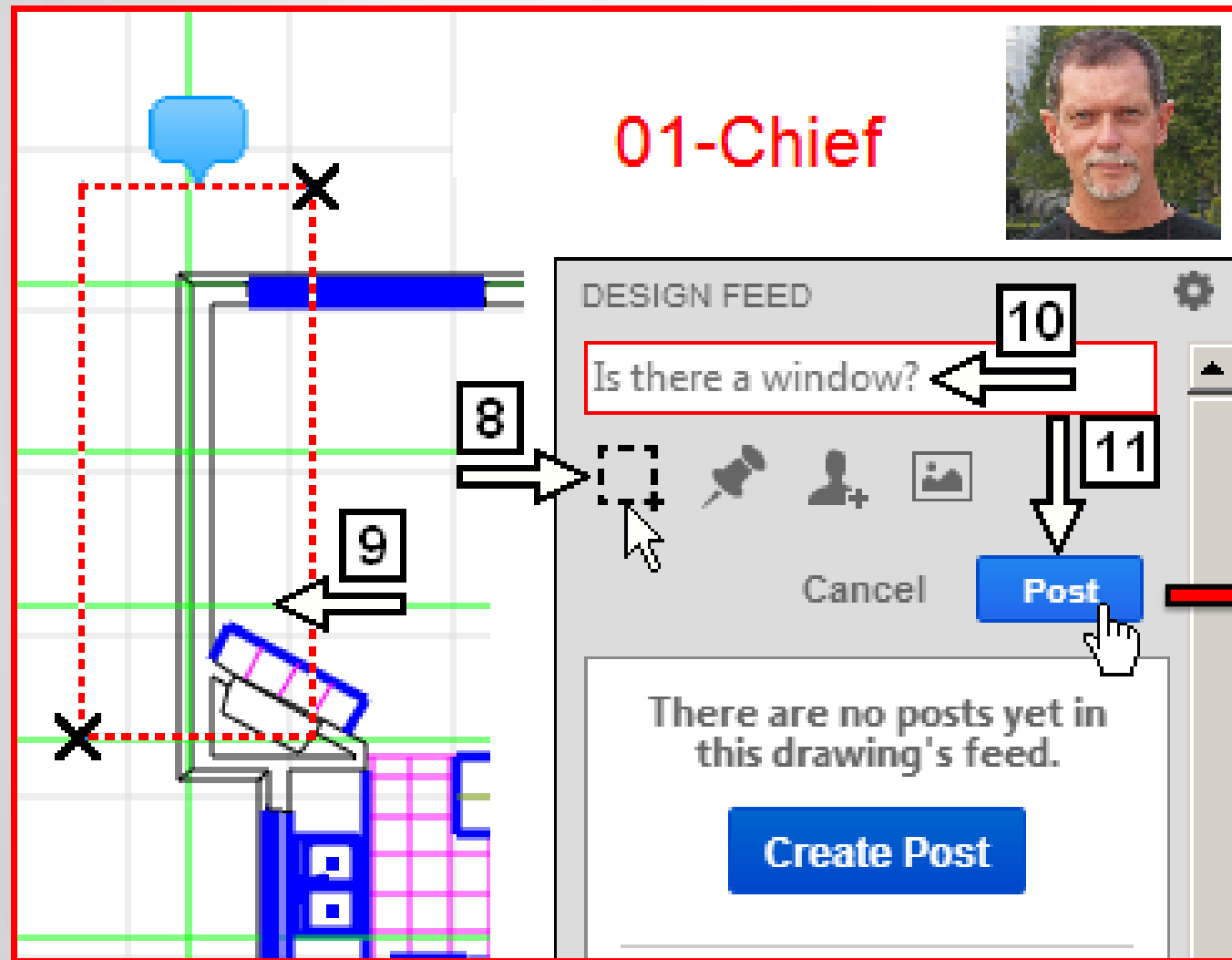
Or this one?



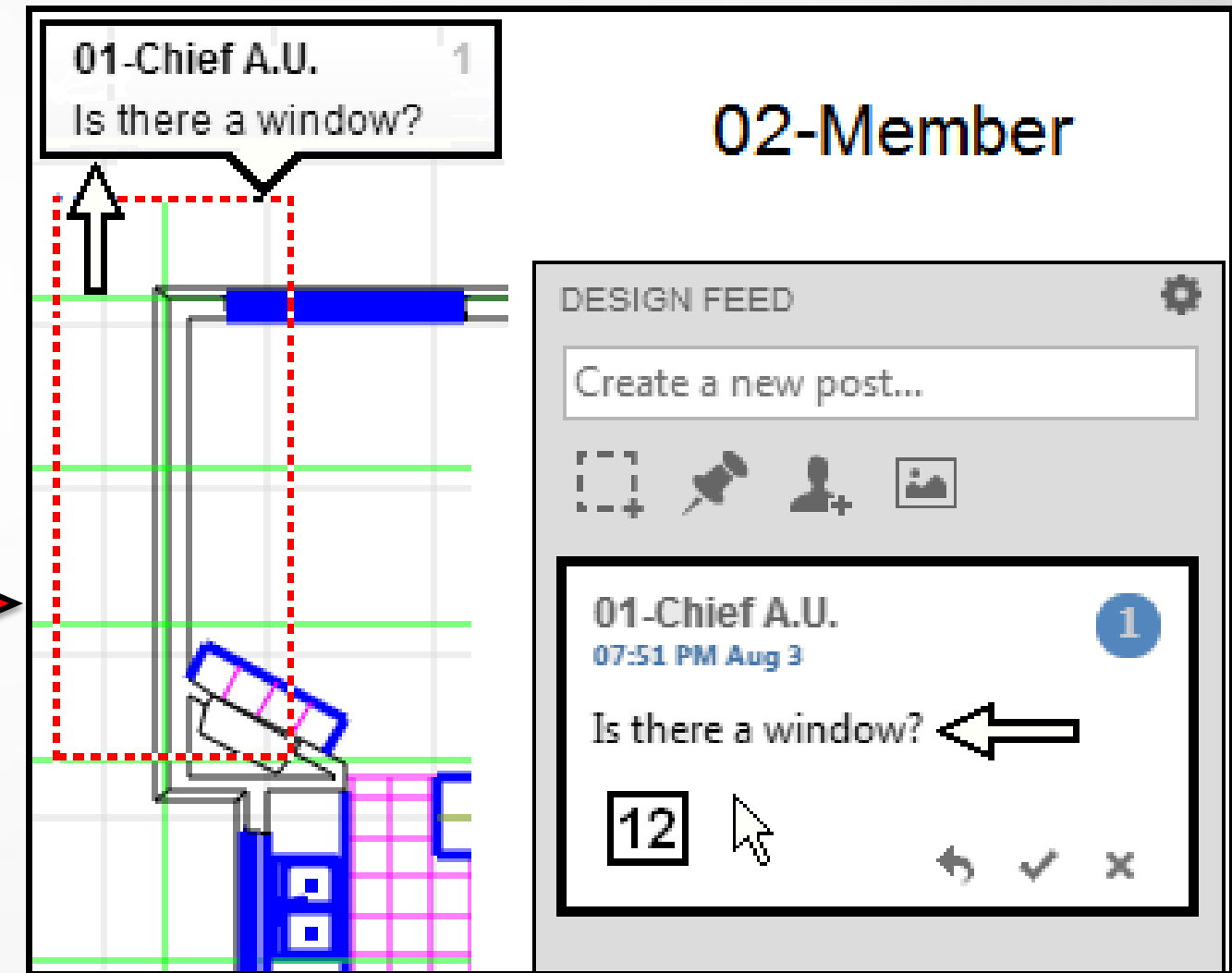
Or maybe neither ?

Concurrent Design (p. #36): **Ex3 – Concurrent work**

Chief Designer [**01.ac2241**]



Member of the team [**02.ac2241**]



How powerful are these tools
for you?

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