4th lesson – Autocad

11th October, 2022

Blocks

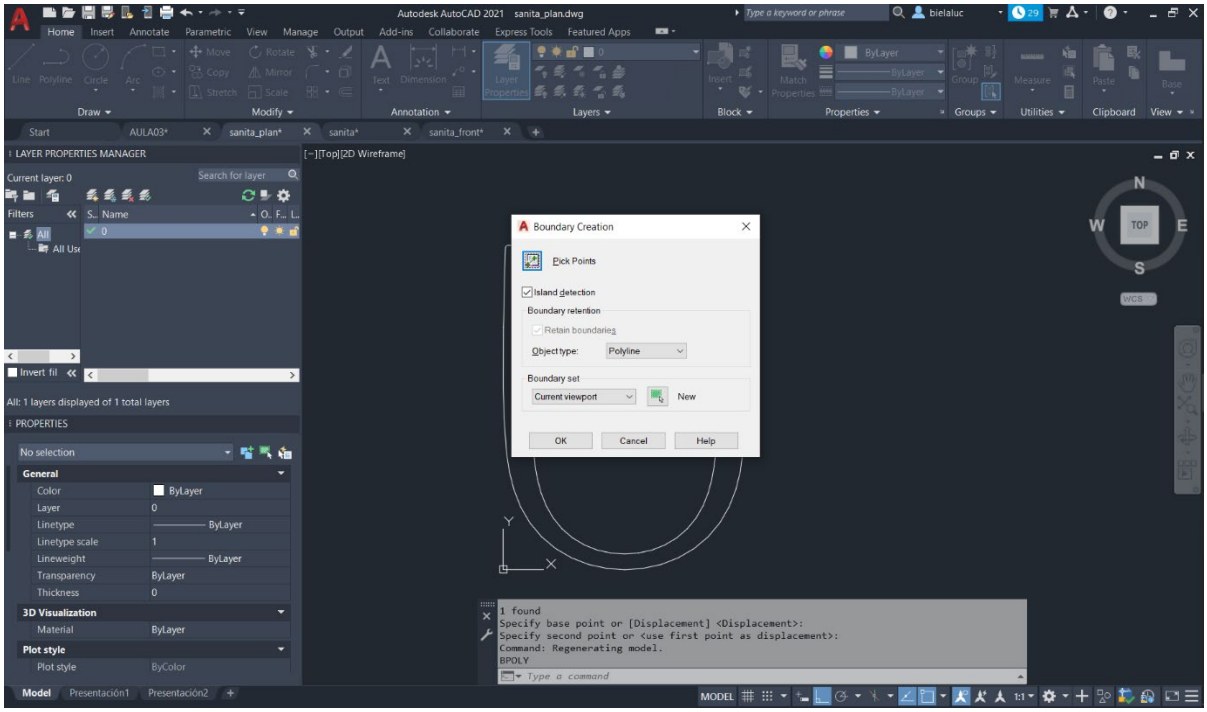
- Put all the files in a folder
- They should be made out of polylines → if not, we should clean them
- Use BPOLY – creates boundary, then move it 1 m, so we know where we put it and then erase the small lines the drawing is created from, then move it back the 1 m (viz. picture 1)
- Create the blocks smartly – than it's easy to replace then in the whole project
- Use BLOCK to create them from the downloaded drawings (viz. picture 2)
    - Name
    - Base point – select point, the one that is important for the placement of the object (for ex.: toilet – middle of the toilet, where the savage is (important for plumber)
    - Select object – check "convert to block"
    - Check "allow to explode"
- Help yourself with using xlines to create defined points we can use for insertion, moving the object,..

- We used different views to show the design of the bathroom – always changing the orientation by command USC
- When drawing – important to used different types of lines and the right layer
    - Showing through what a section goes, which lines are not visible (for ex.: different layers of the wall) (viz. picture 3)

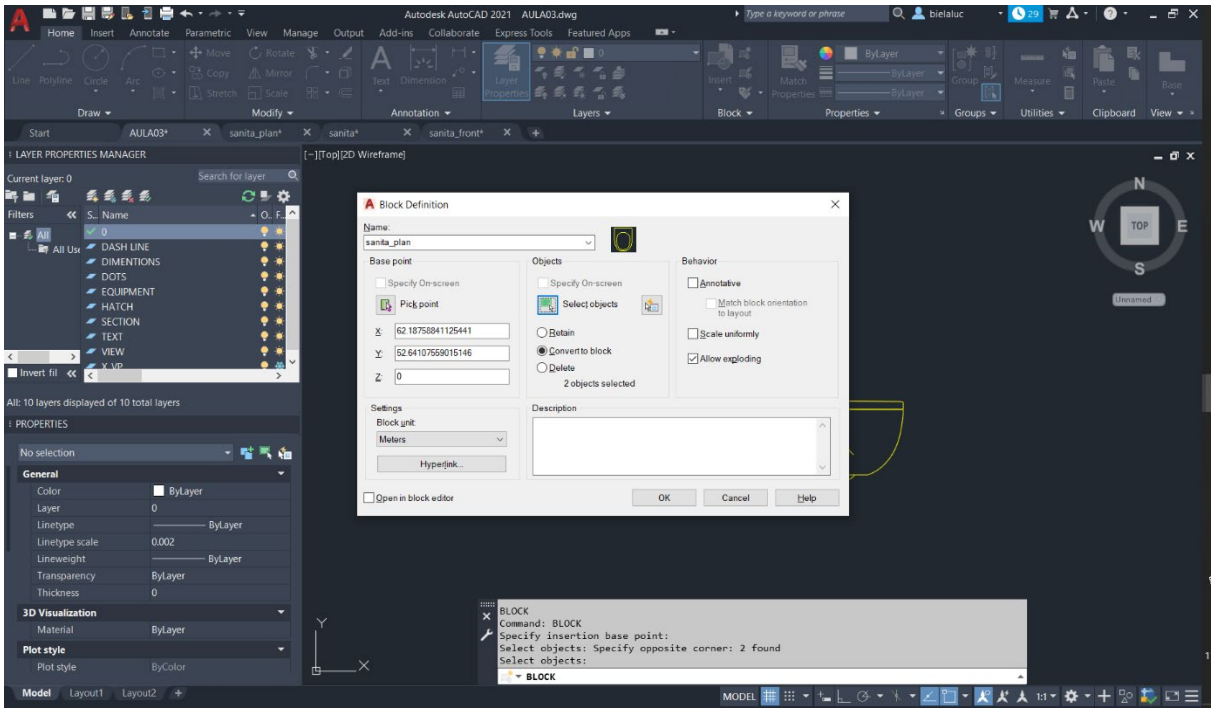
Commands:

- BPOLY – boundary creation → click pick points (click inside the object we want the boundary of)
- COPY BASE – select base point + select object
- J=JOIN – select all lines we want to join (viz. picture)
- BLOCK – viz. higher in text
- X=EXPLODE – breaks the block/object in parts
- UCS=UNIT COORDINATES SYSTEM – can change the orientation of the coordinate system, we select base point, direction of X and direction of Y
    - to change it back to the world coordinates – type W
- PLAN – to change the orientation of the view according to the coordinate system (just click enter twice)
- INSERT – we can select an object from a library
- RE=REGEN - regeneration

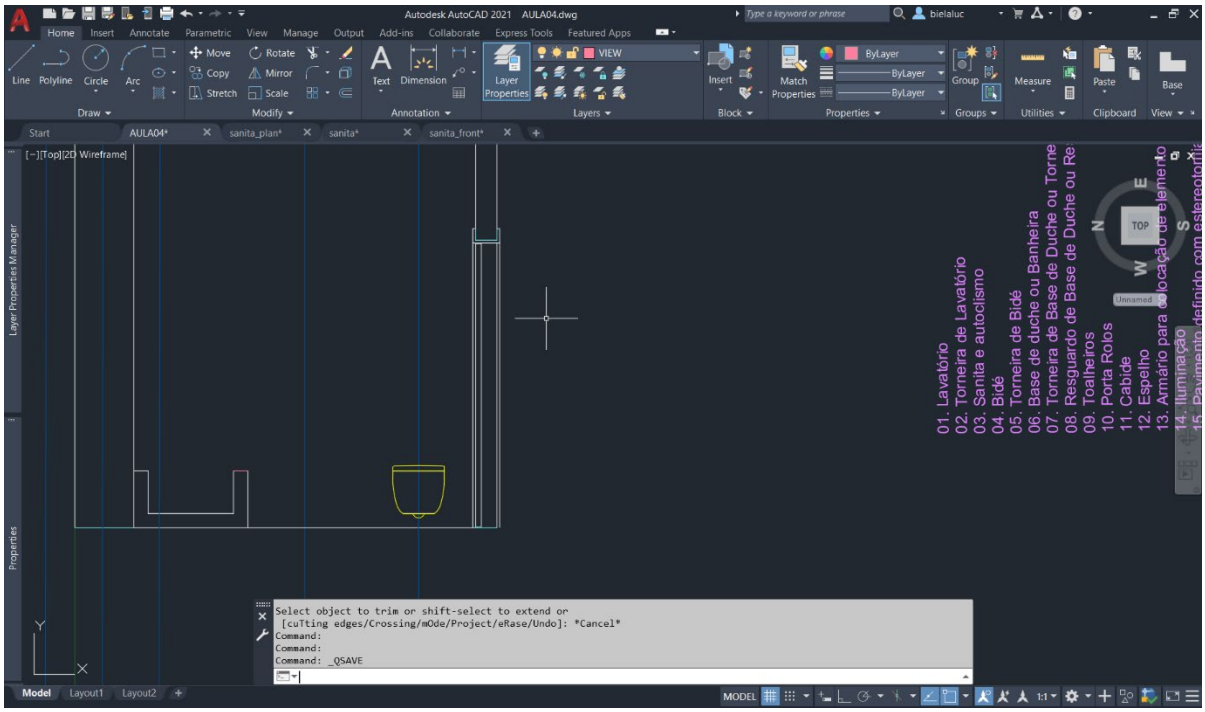
Picture 1:



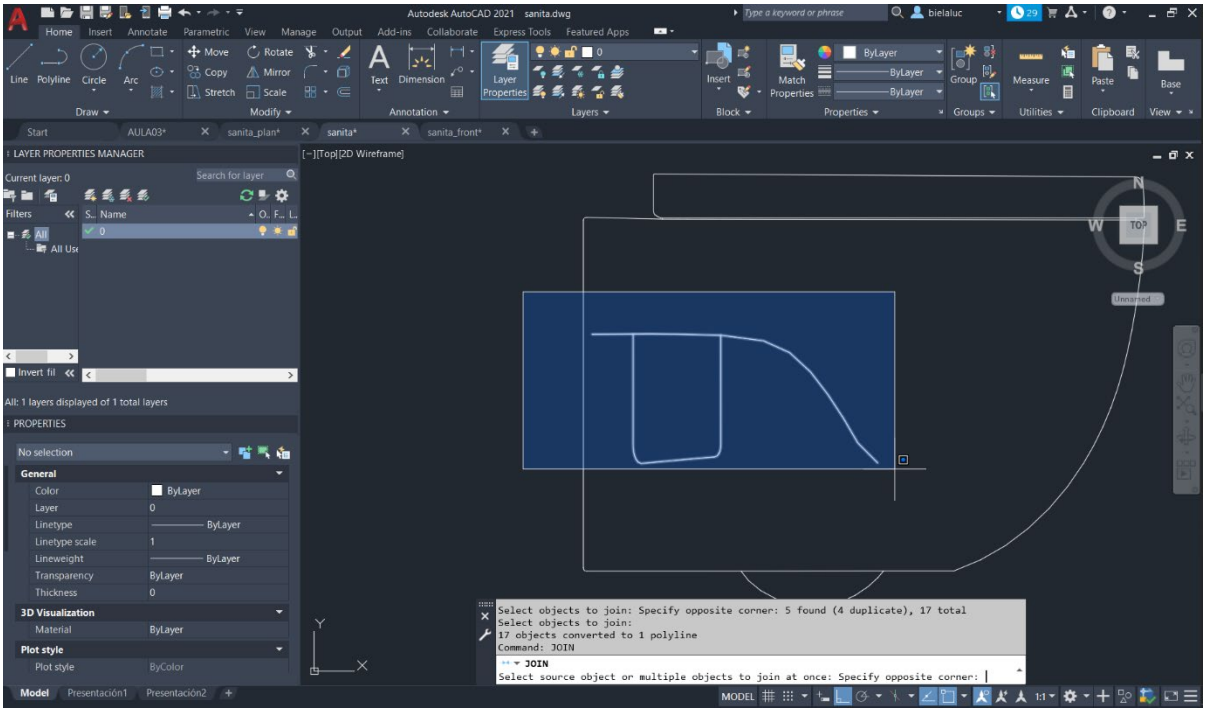
Picture 2:



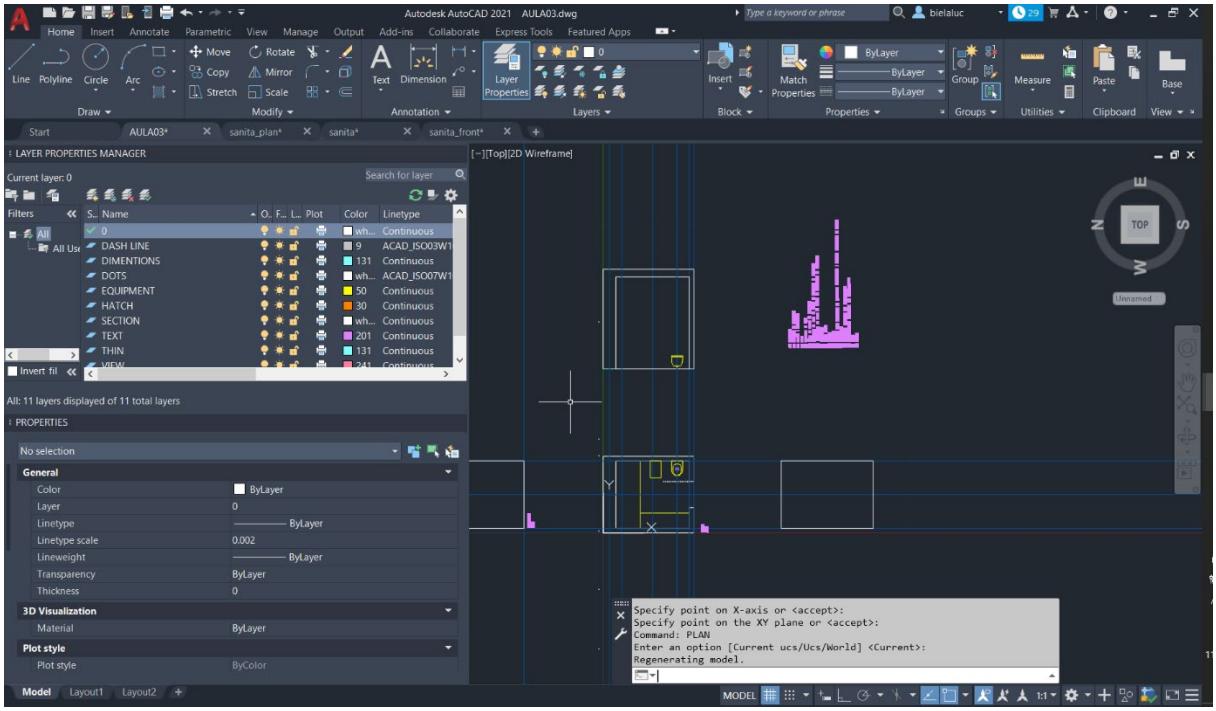
Picture 3:



Picture 4:



Picture 5:


Autodesk AutoCAD 2021 AULA03.dwg
LAYER PROPERTIES MANAGER
PROPERTIES
[−][Top][2D Wireframe]
Specify point on X-axis or <accept>:
Specify point on the XY plane or <accept>:
Command: PLAN
Enter an option [Current ucs/Ucs/World] <Current>:
Regenerating model.