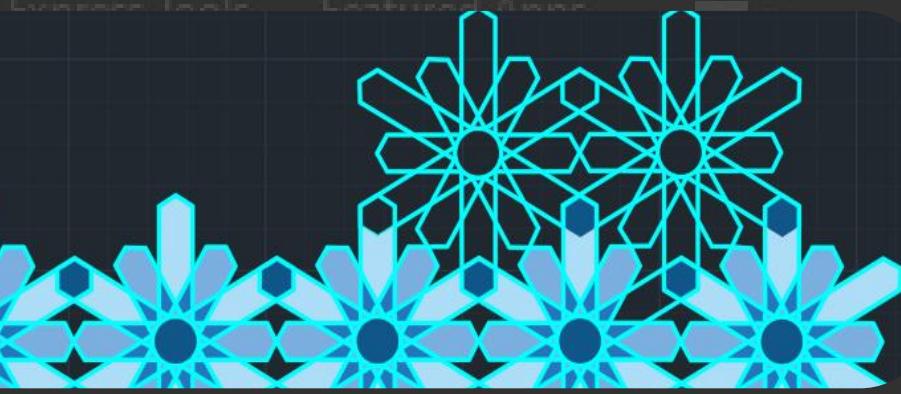
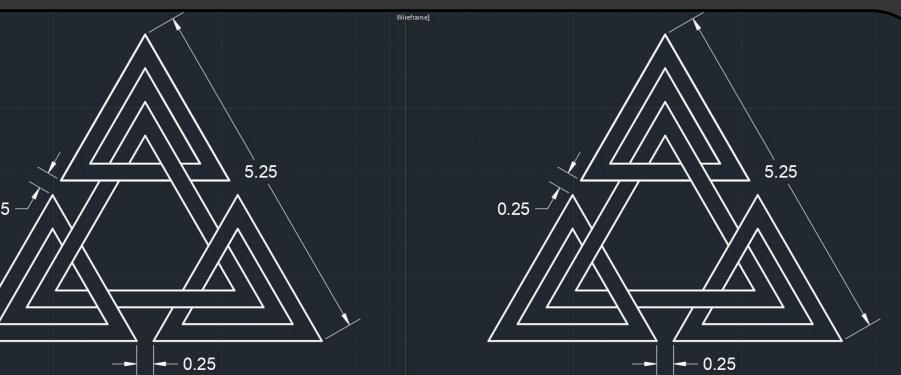


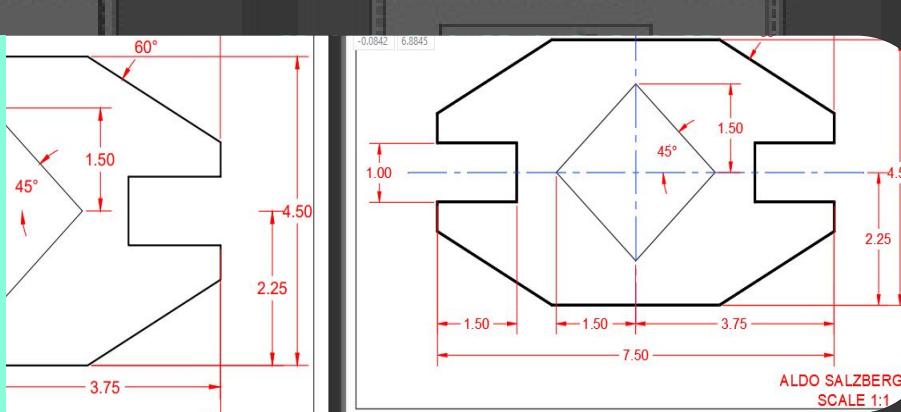
## Lines and shapes



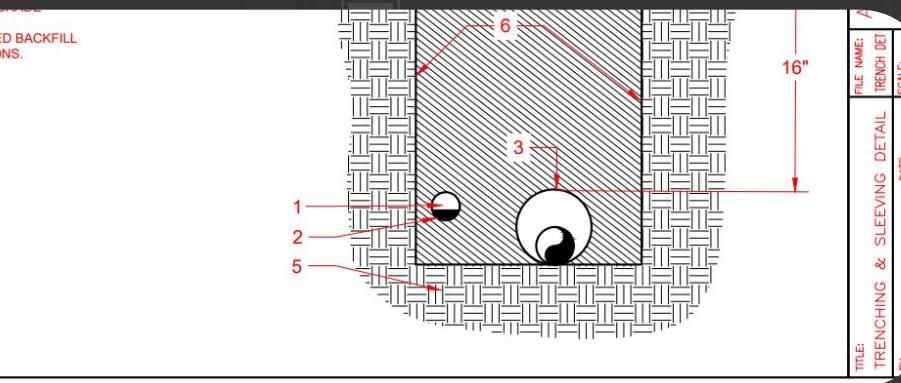
## Editing commands



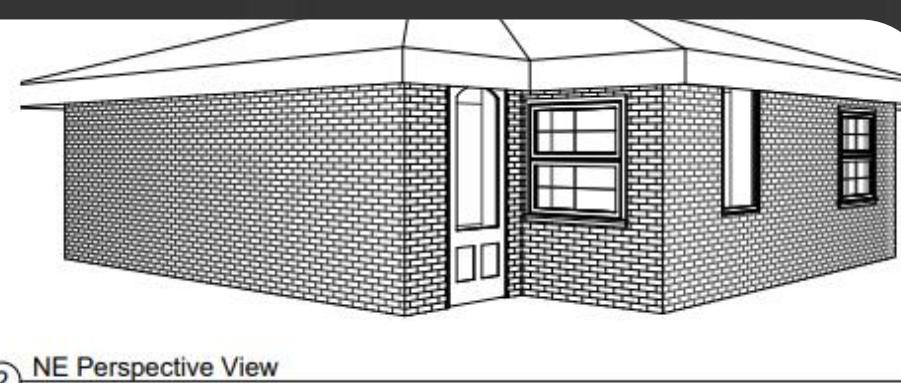
## Industry standards



## Dimensioned drawings



## Industry drawing sets



# Aldo Salzberg

## Engineering Design Portfolio

Prof. Badeeah Al-Gburi

Search

Announcements

### AMERICAN RIVER COLLEGE

### DESIGN TECHNOLOGY

### INTRO TO COMPUTER AIDED DRAFTING (CADD)

Aldo Salzberg  
Plate 4.2

Wednesday, July 10, 2024

Landscape  
Exemplar (2)  
Wednesday, July 10, 2024

Connect

Welcome Aldo!

w1442881@apps.losrios.edu

May 2024: Have You Tried Counting Blocks Quickly

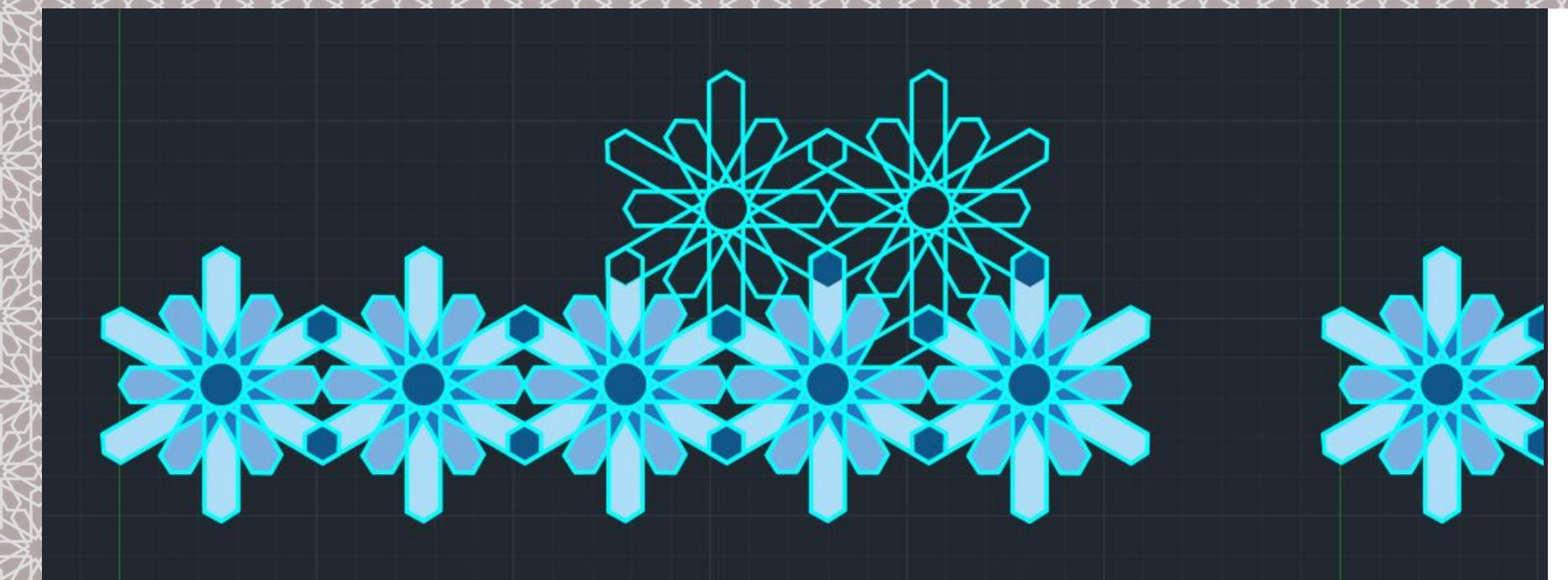
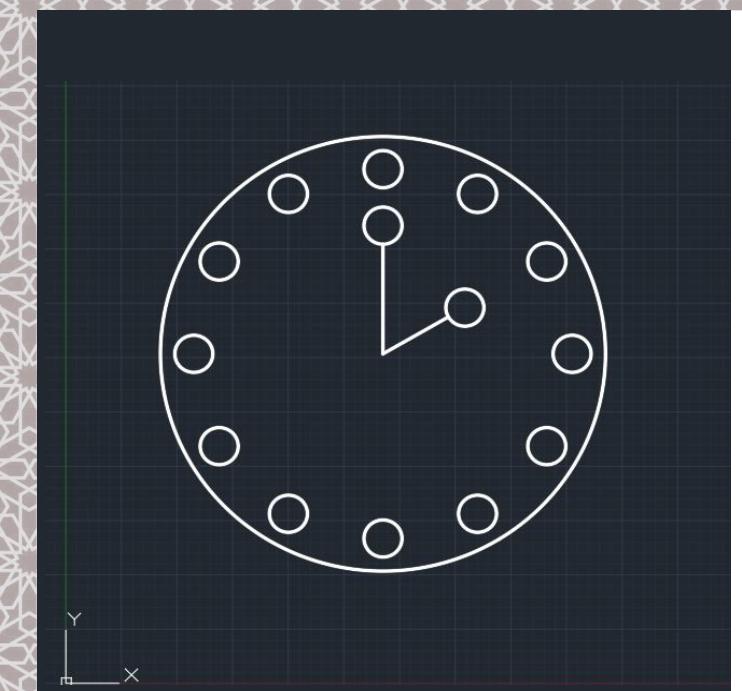
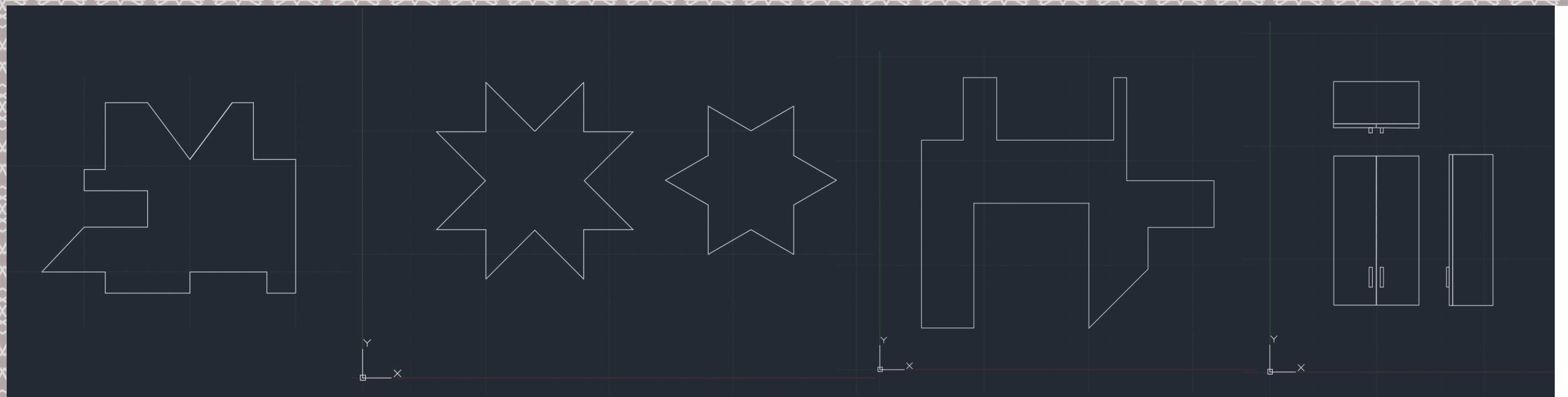
Explore the Count and Quick Select features for quick and precise counting of blocks.

2 months ago

January 2024: Have You Tried: Looking Back at 2023

Take a look at the productivity workflows we covered in our 2023 Have You Tried articles.

7 months ago



## Description of plates

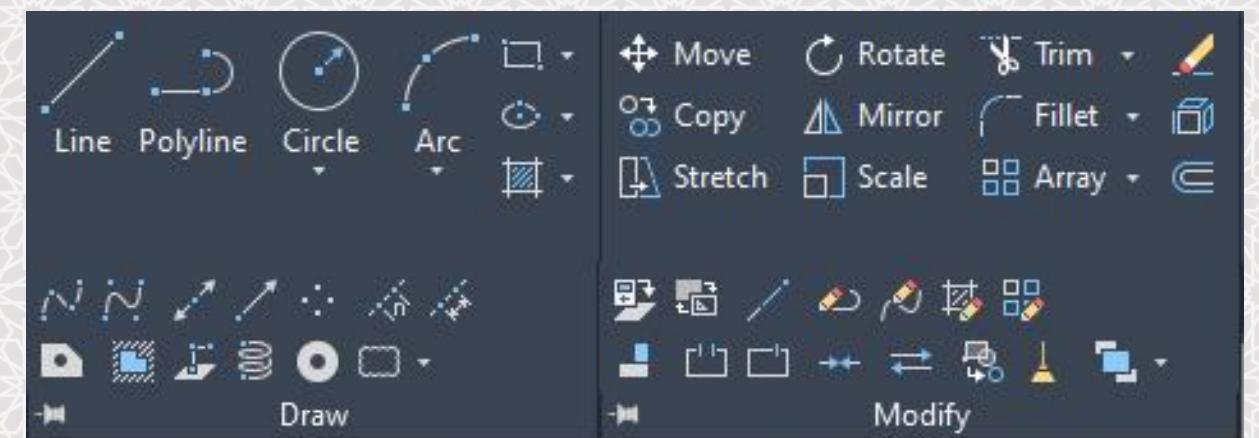
The plates show the progression of tool discovery. The **array tool** was used to make the clock on **Plate 1.5**, with the **circular array** variant. I'm happiest with **Plate 1.6**, although it is not finished. It is a repeating pattern common in Middle Eastern and North African mosaics. The two-flake generator is not 6-fold symmetric, since the larger flake runs at 30 and 90 degrees. The combined pattern is 2n-fold symmetric depending on viewing angle, however, given the combined effect of both flakes. Amazing insight gleaned through exploration with AutoCAD!

The last exercise also allowed me to understand how to use rectangles as primitives for the more complex polygons in the mosaic pattern. This was accomplished by adding vertexes to the original rectangle, connecting the lines, and then using the **trim tool** to end up with the polygonal pieces. The geometrically-closed surfaces can then be color filled, something I also learned to do in the last exercise.

## Week 1: learning draw tools, modifiers and guides

These are the initial drawings I made for this class in AutoCAD. They allowed me to understand the “primitives” that are used for drafting in the program. Each set of tools used in the drawing menu represent a refinement or specialization of the functionality of one or more parent tools.

The most important and basic tool is the **line tool**. The **polyline tool**, based on the line tool, speeds up the drawing of multiple connecting lines. Similarly for **circle** and **arc** tools.

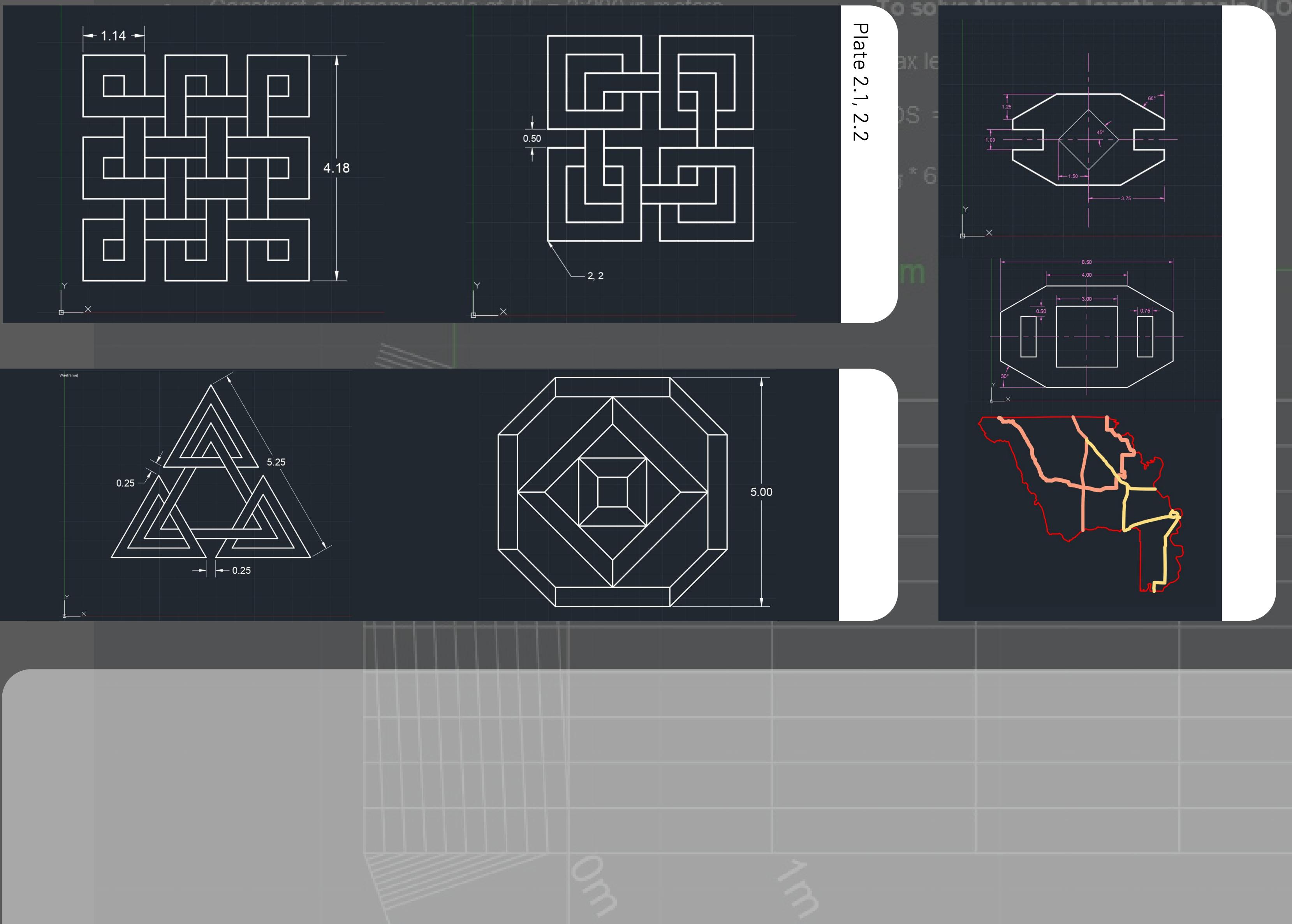


The guides also act as modifiers, except that they act on the cursor guide rather than the drawing elements directly. They are shown here:



The AutoCAD engine finds “perfect” or “ideal” internal coordinates for both cursor guides and existing lines in the **design canvas**, also called the **model space**.

The model space calculates positions and intersections and makes the drawings self-consistent under different measurement units and nominal resolutions.



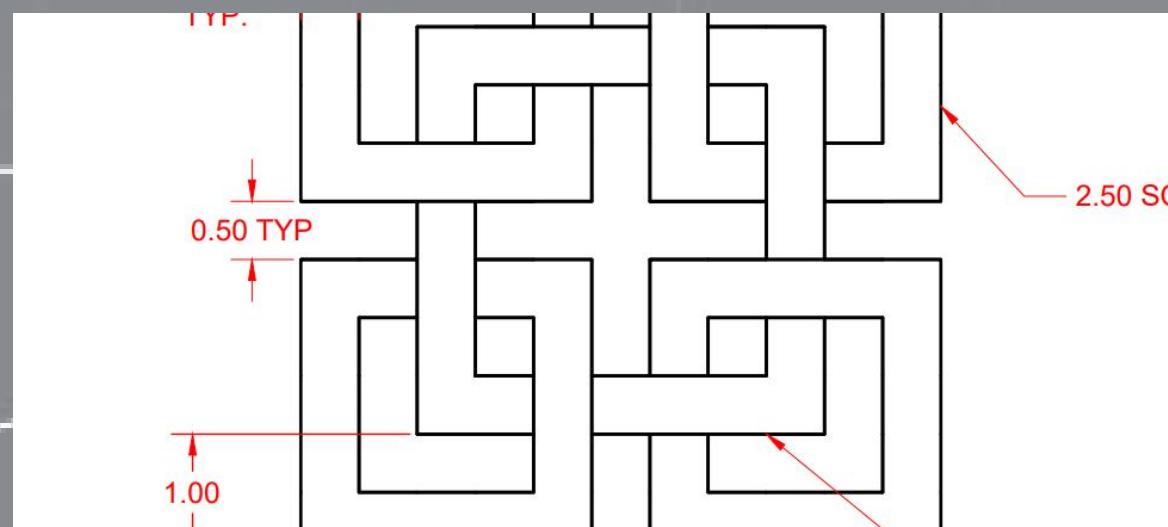
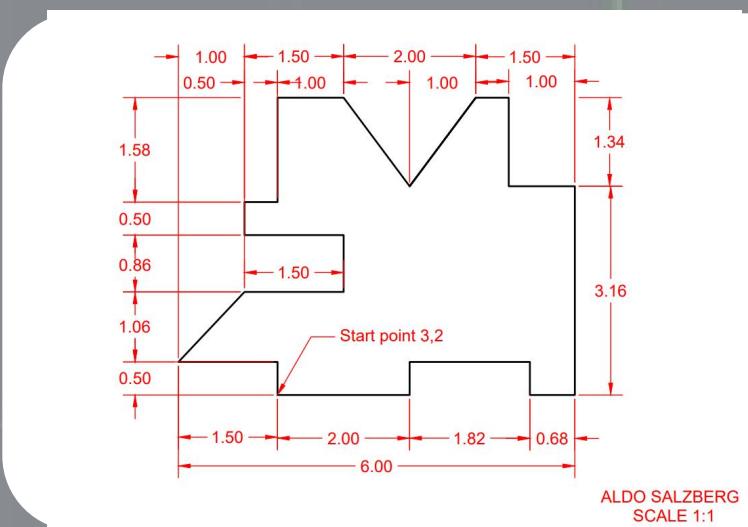
## Week 2: Learning cursor behavior, gestures and projections

Week two of this course taught me how to force the cursor to provide "hints" about the placement of the geometries by hovering over desired intersections and having the program generate a guide for that intersection.

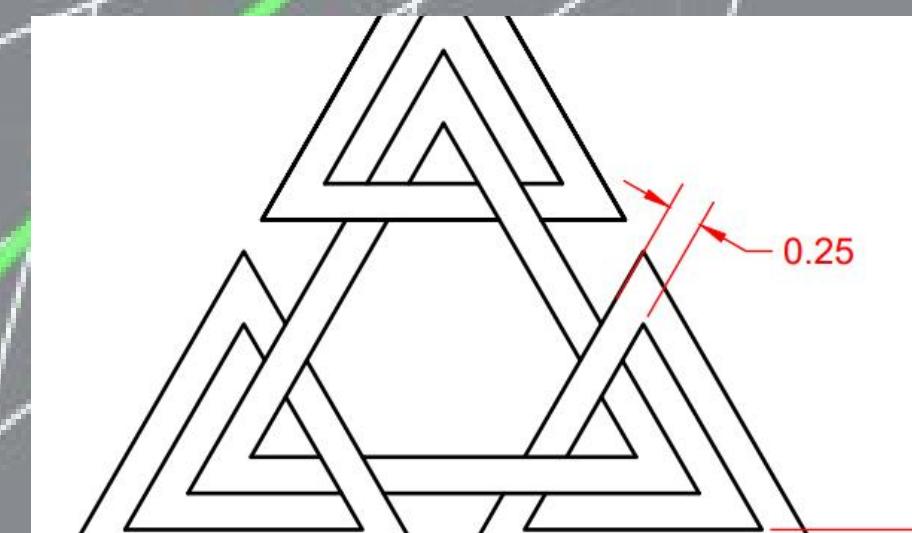
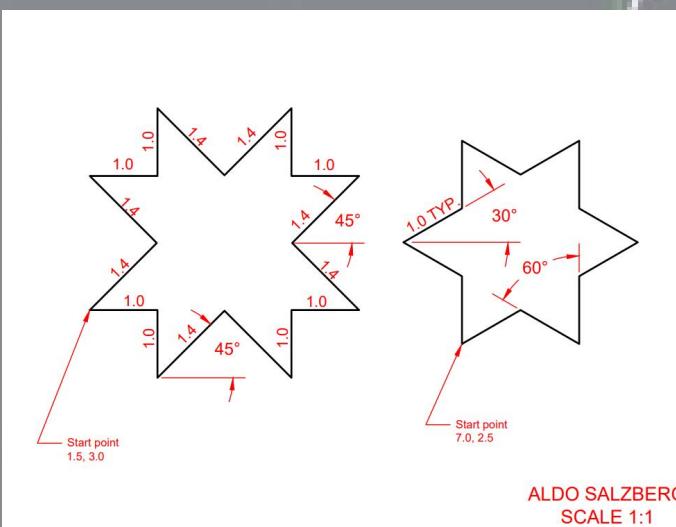
This finger memory is important and necessary to draw accurate drawings quickly.

# Industry standards

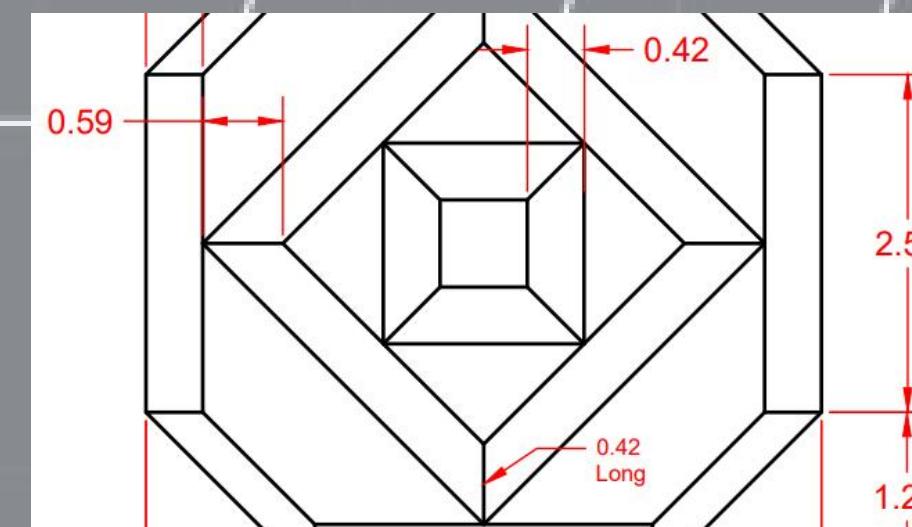
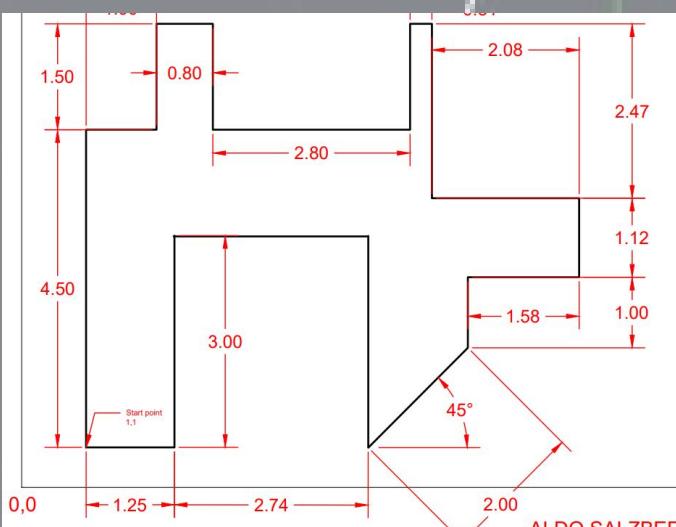
# Aldo Salzberg Engineering Design Portfolio



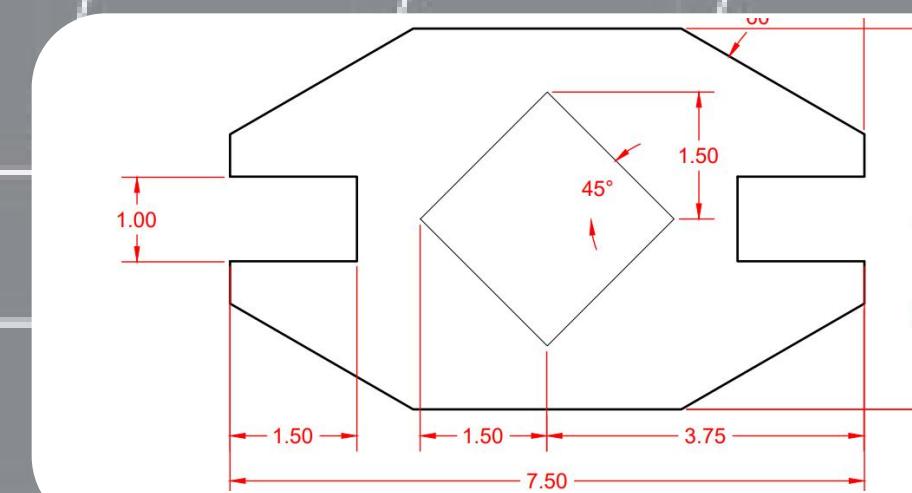
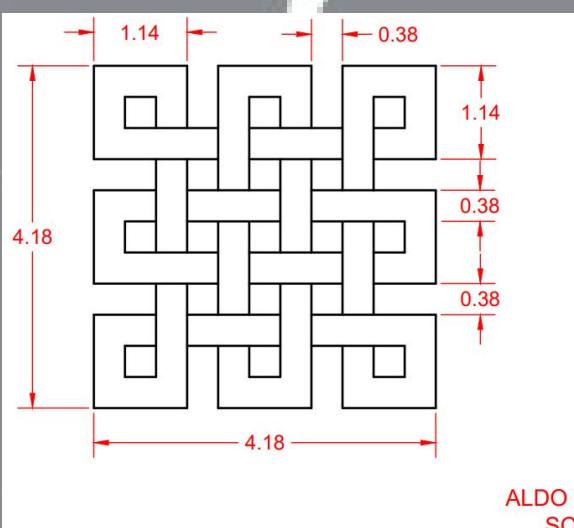
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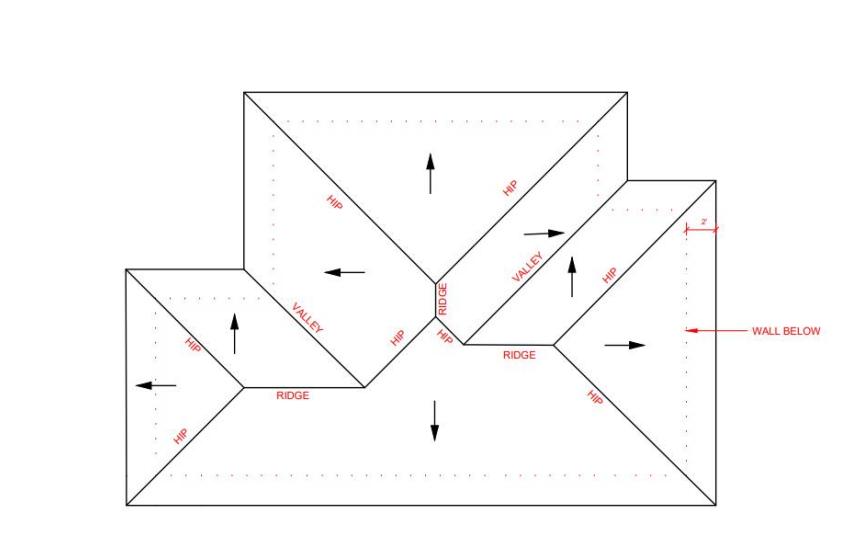
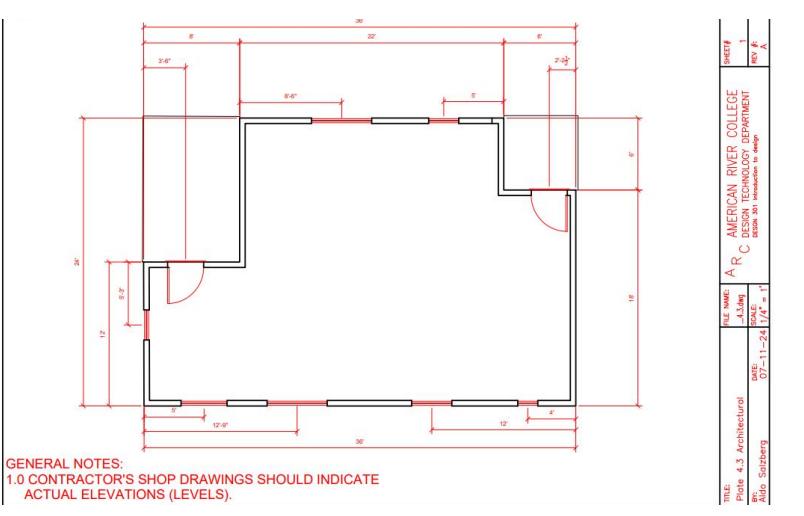
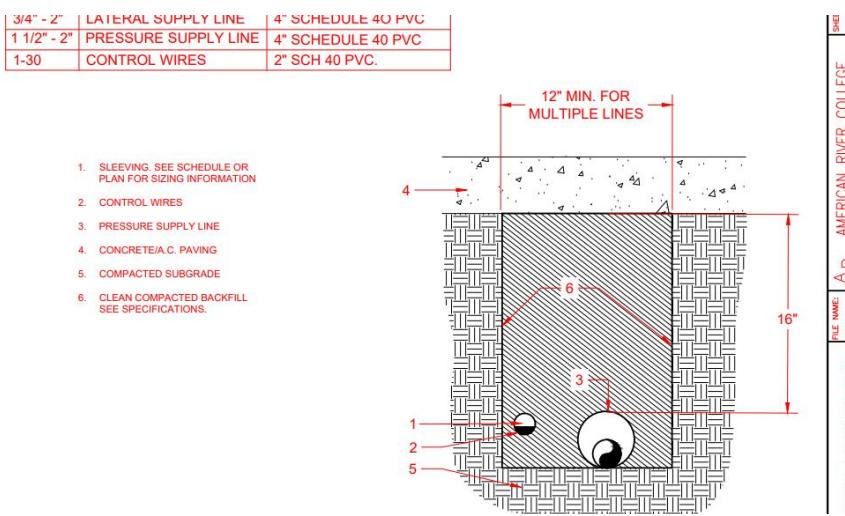
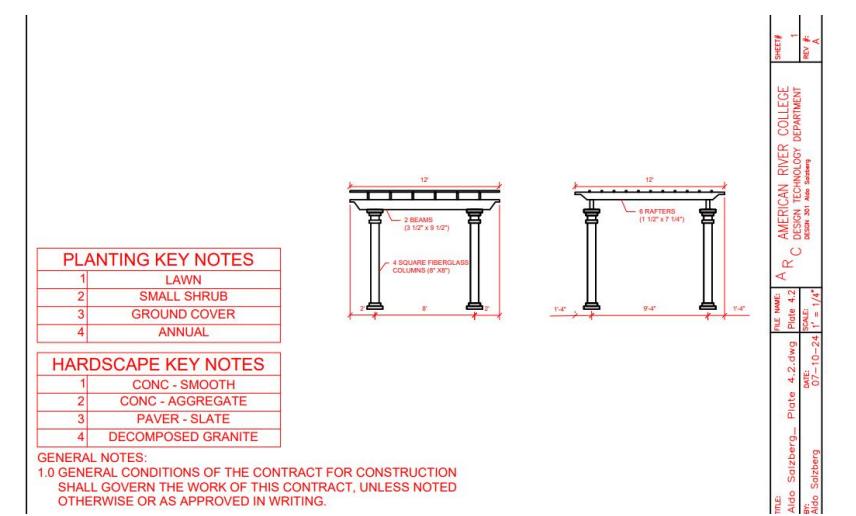
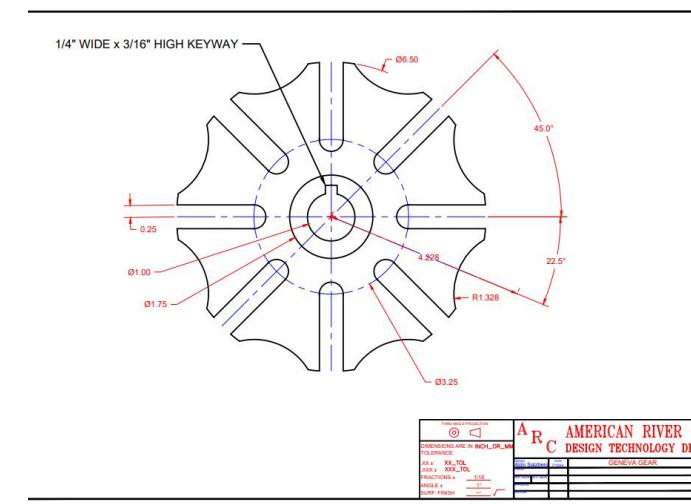
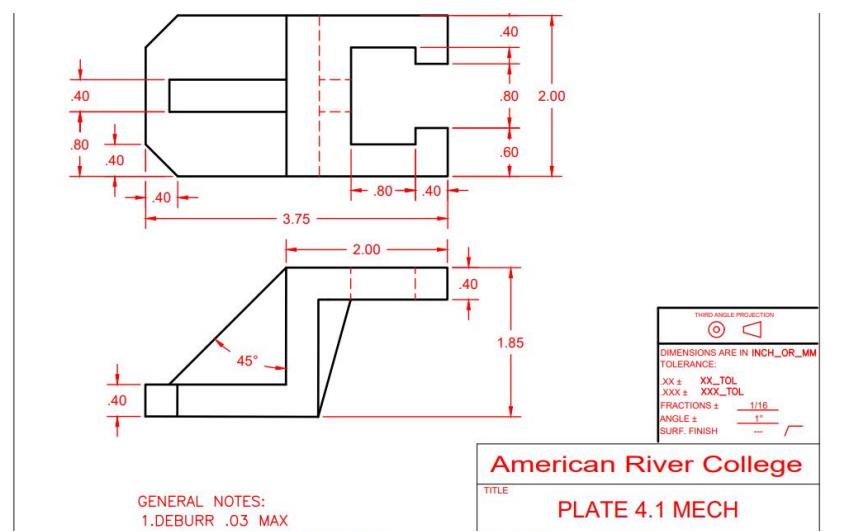
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# Dimensioned drawings

# Aldo Salzberg Engineering Design Portfolio



# Industry drawing sets

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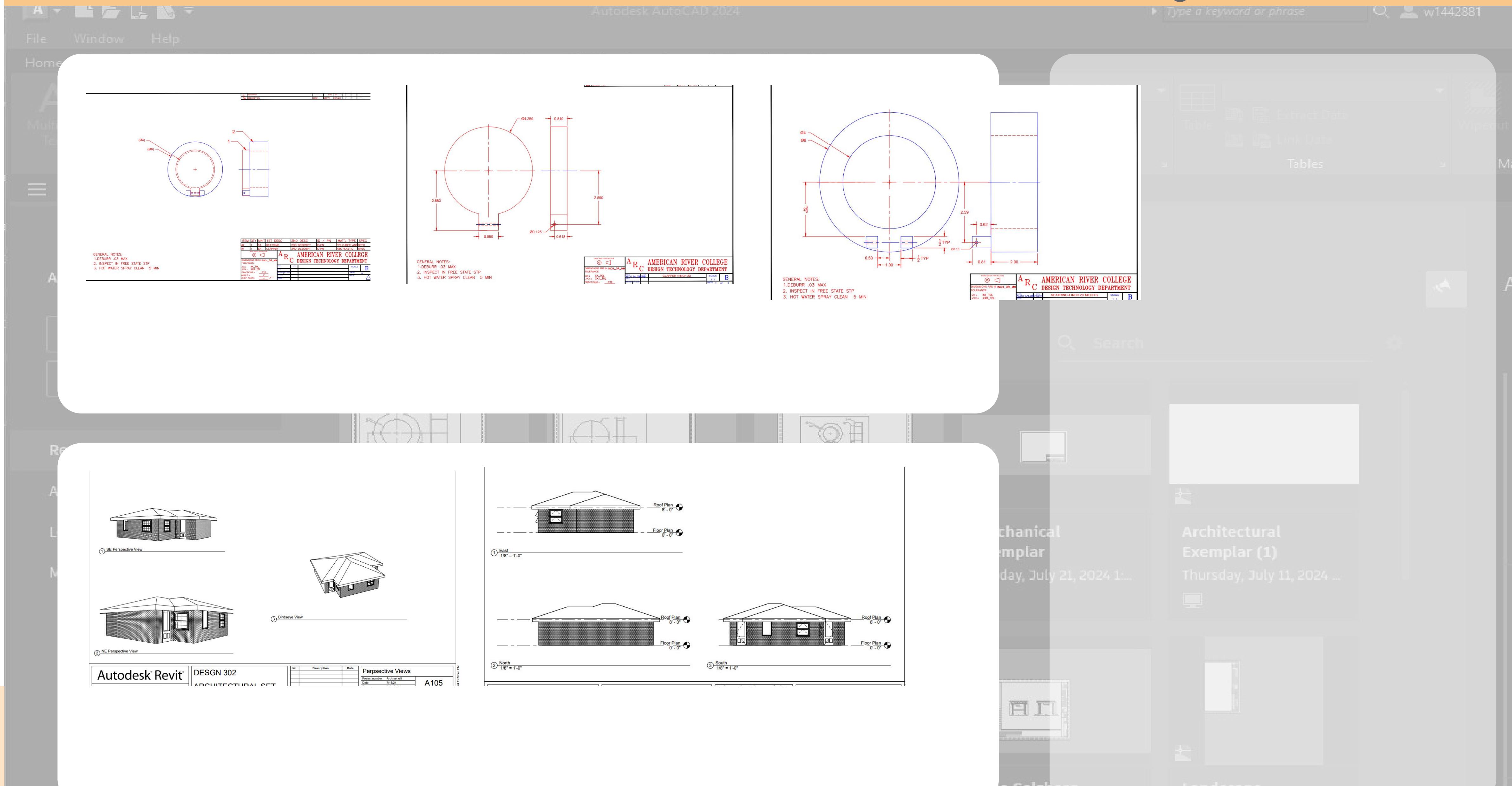


Plate 4.4 roof

Plate 4.3

A.P.

Plate 4.2

## Landscape Exemplar (2)