Anthony Ventura

1/13/25

AutoCAD Project 1

**Floor plan:**

A floor plan of a house

Description automatically generated

**Floor plan with electrical:**

A floor plan of a house

Description automatically generated

**Lessons learned and learning experience from working on this project.**

In this first project I learn how to create a simple floor plan. I utilized the layers properties feature in the floor plan to organize my workspace.

The first layer that I created was the walls layer. I utilized tools such as offset to create the walls of the floor plan. The trim tool was useful for creating entrances for doorways and it also helped for erasing any lines that overlapped. The extend tool was found near the trim tool. It allowed for lines to be extended with ease. The measure tool was effective to double check the measurements of the rooms they were created in the floor plan. Copy and paste tool allowed me to quickly add repeated objects to the design. The mirror tool allowed me to do the same with objects as well. The scale tool allowed me to re-adjust the items that I copied.

The layers feature allowed me to add the electrical symbols on top of the finished floor plan. I was able to turn off the layers that were overlapping with the electrical symbols. This allowed me to PDF a product with the layers that I needed to be seen.  
 Wiring the floor plan:

Units: Decimal, 4-digit, decimal degrees, 0 precision, units to scale: mm.

Creating blocks for future projects:

A screenshot of a computer

Description automatically generated

Block definition panel > create block > define block = Block is saved to only this drawing

Block definition panel > create block > write block = Block is saved for future use.

-Light output block

-Switch block

-Three-way switch block

-Fan block

-Electrical hidden wires block (Not used)

-Receptacle socket block

I learned that blocks can be scaled in different projects. I can save different libraries to organize them for different firms that I work with. This can be useful to conform the ANSI system for electronic blocks.