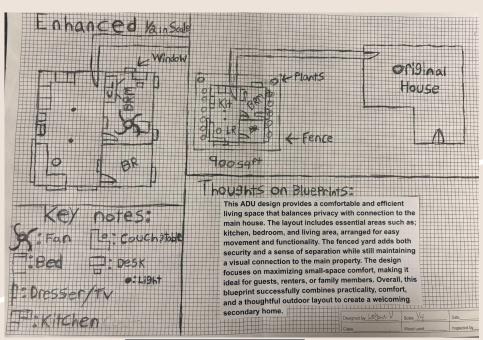
ADU House Design

- Logan Van Daele
- 6450 Thomas Court, Bettendorf, IA
- (563)-271-8648

Haven ADU

"Accessory Dwelling Unit Design Proposal"



Design by: Logan Van Daele (Student)

Created: 10/8/2025

Located in: Bettendorf Iowa

Original Blueprint

Project Overview

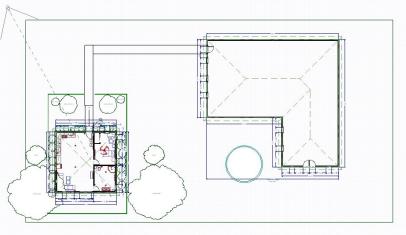
Purpose: The purpose of this ADU is to provide a flexible and functional living space that enhances the property's usability and long-term value. It serves as a private, self-contained unit suitable for guests, extended family, or as a potential rental opportunity. The design prioritizes comfort and independence while maintaining a strong connection to the main residence and surrounding outdoor space.

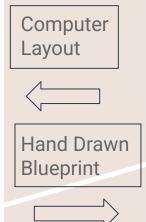
Square Footage: 900 Square Feet

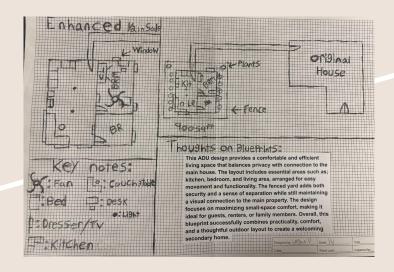
Lot Address: 6450 Thomas Court (Personal House - Intended for design purposes only, house is not realistic)

Design goal: The design goal is to create a modern, efficient layout that maximizes livability within a compact footprint. The plan emphasizes open flow, natural light, and sustainable material choices to achieve a bright, welcoming interior. Each element—from the floor plan arrangement to the finishes—was chosen to balance practicality, affordability, and visual appeal, resulting in a small home that feels spacious, cohesive, and thoughtfully designed.

Site Layout







Notes:

Parking will be accessible through the driveway/road of the original house. There is a walkway connecting the ADU to the original house.

Floor Plan

Types of rooms:

- Bedroom
- Bathroom
- Livingroom
- Kitchen

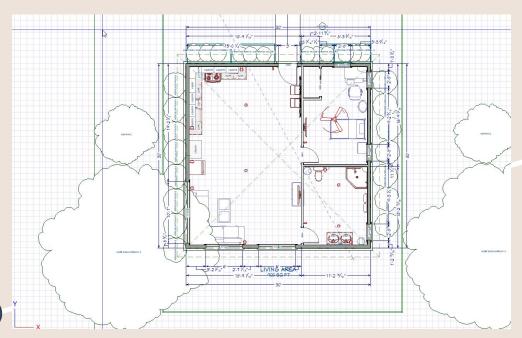
Dimensions:

30ft*30ft=900 Sq Ft

(Exact room dimensions on page 24)

Design Features:

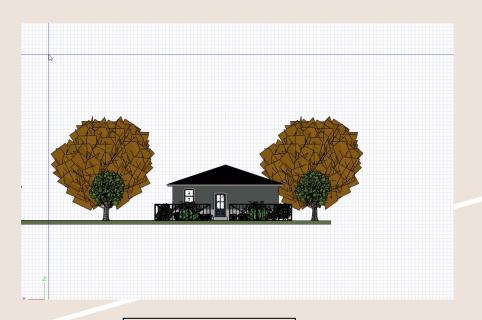
The layout includes an open living and kitchen area, a full bathroom, and a cozy bedroom with natural light from large south-facing windows. Durable, low-maintenance materials keep upkeep simple, while energy-efficient insulation and windows help reduce costs.

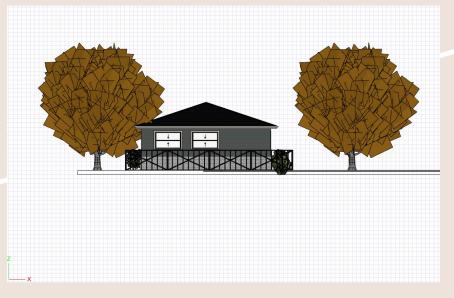


Exterior Layout & Design

The exterior design focuses on creating a private, comfortable space that still feels connected to the main property. The purpose of the ADU, is for a recent graduate from Bettendorf. The fence defines the ADU's boundary, offering both security and independence from the original house. The pony wall and landscaping add visual depth while keeping maintenance simple. Windows are positioned to bring in natural light and outdoor views without sacrificing privacy. Trees and flower beds soften the structure, giving the space a welcoming, home-like feel year-round.

Exterior Views





Front Elevation View

Back Elevation View

Exterior Views





Side elevation view

Top View

Exterior Views





Corner View

Corner View 2

Interior Layout & Design

Kitchen Design: The kitchen is designed to be compact yet fully functional, featuring modern appliances and efficient storage. Its open layout connects to the living space, creating an easy flow for daily routines and entertaining.

Living Room Design:

The living room offers a bright and comfortable space with large windows for natural light. It's designed for flexibility, perfect for relaxing, studying, or hosting small gatherings.

Bedroom: The bedroom provides a private, quiet retreat separate from the main living areas. Soft lighting and neutral colors create a calm atmosphere ideal for rest and personal space.

Bathroom: The bathroom combines simplicity and functionality, with a walk-in shower, modern fixtures, and easy-to-clean surfaces. It's compact but efficient, maximizing comfort in a small footprint.

Interior Views





Kitchen View

Living Room View

Interior Views





Bedroom View 1

Bedroom View 2

Interior Views





Bathroom View 1

Bathroom View 2

Material List explanation

The material list provided represents the costs and quantities for the bare structure of the ADU only. It includes all construction materials such as framing, siding, roofing, windows, doors, drywall, flooring, and finishes that are part of the house itself. Furniture, appliances, and personal items have been excluded from this list.

| 2 | Subfloor | | | | | | |
|----|----------|---|------------------|------------------|---------|-------|---------------------|
| 3 | SF1 | 1 | 48"x96"x3/4" | OSB-Hrz | 29 | | \$11.88 |
| 4 | | | | | | | Subtotal: \$344.52 |
| 5 | Framing | | | | | | |
| 6 | F1 | 1 | 2" x 6" | ceiling joists | 630 | ft | \$0.80 |
| 7 | F2 | 1 | 2" x 10" | header | 26 | ft | \$1.50 |
| 8 | F3 | 1 | 2" x 12" | header | 21 | ft | \$2.00 |
| 9 | F4 | 1 | 2" x 6" | header | 43 | ft | \$0.83 |
| 10 | F5 | 1 | 2" x 8" | header | 10 | ft | \$1.13 |
| 11 | F6 | 1 | 2" x 4" | plate | 135 | ft | \$0.50 |
| 12 | F7 | 1 | 2" x 6" | plate | 384 | ft | \$0.80 |
| 13 | F8 | 1 | 2" x 4" | stud | 446 | ft | \$0.50 |
| 14 | F9 | 1 | 2" x 6" | stud | 851 | ft | \$0.80 |
| 15 | | | | | | | Subtotal: \$1740.29 |
| 16 | Siding | | | | | | |
| 17 | S1 | 1 | 2 1/4"x7 5/8"x3" | Dark Red Brick | 3149 | | \$0.55 |
| 18 | S2 | 1 | 7" wide | Fiber Siding Neu | 1153 | ft | \$4.50 |
| 19 | S3 | 1 | | Housewrap | 1026.38 | sq ft | \$0.22 |
| 20 | S4 | 1 | 48"x96"x7/16" | OSB-Hrz | 35 | | \$11.88 |
| 21 | | | | | | | Subtotal: \$7562.05 |

| | Exterior mini | | | | | | |
|----|---------------|---|--------------|----------------------|---------|-------|----------------------|
| 23 | EX1 | 1 | 119W1 1/2D | Baluster X | 1 | | \$17 |
| 24 | EX2 | 1 | 120W1 1/2D | Baluster X | 15 | | \$17 |
| 25 | EX3 | 1 | 124W1 1/2D | Baluster X | 1 | | \$17 |
| 26 | EX4 | 1 | 94W1 1/2D | Baluster X | 1 | | \$17 |
| 27 | EX5 | 1 | 96W1 1/2D | Baluster X | 1 | | \$17 |
| 28 | EX6 | 1 | 98W1 1/2D | Baluster X | 1 | | \$17 |
| 29 | EX7 | 1 | 36" | door threshold | 1 | | \$13 |
| 30 | EX8 | 1 | 3/4"x3 1/2" | ext. door casing | 18 | ft | \$3 |
| 31 | EX9 | 1 | 6 7/16"x3/4" | ext. door jamb - | 17 | ft | \$8.86 |
| 32 | EX10 | 1 | 3/4"x3 1/2" | ext. window casi | 97 | ft | \$6.43 |
| 33 | EX11 | 1 | 1"x1 3/4" | exterior sill - Drif | 37 | ft | \$12.40 |
| 34 | EX12 | 1 | 3/4"x3 1/2" | window apron - I | 37 | ft | \$8.15 |
| 35 | | | | | | | Subtotal: \$1,941.68 |
| 36 | Roofing | | | | | | |
| 37 | R1 | 1 | 1/8" thick | Asphalt Roofing | 1148.14 | sq ft | \$3.43 |
| 38 | R2 | 1 | | downspout | 4 | | \$8.00 |
| 39 | R3 | 1 | 1"x8" | eave fascia | 132 | ft | \$6.98 |
| 40 | R4 | 1 | | gutter: Default G | 132 | ft | \$3.11 |
| 41 | R5 | 1 | | metal drip edge | 132 | ft | \$0.53 |
| 42 | R6 | 1 | 48"x96"x1/2" | OSB-Hrz | 36 | | \$11.88 |

| 42 R6 | 1 | 48"x96"x1/2" | OSB-Hrz | 36 | | \$11.88 |
|---------------|---|-----------------|----------------------|--------|-------|----------------------|
| 43 R7 | 1 | 2" x 10" | rafters | 573 | ft | \$1.27 |
| 44 R8 | 1 | 2" x 6" | rafters | 132 | ft | \$0.99 |
| 45 R9 | 1 | 2" x 12" | ridge board | 96 | ft | \$1.25 |
| 46 R10 | 1 | | ridge cap: Defau | 96 | ft | \$8.69 |
| 47 R11 | 1 | 3/8" thick | Soffit - Color - W | 190.55 | sq ft | \$1.11 |
| 48 | | | | | | Subtotal: \$7,784.56 |
| 49 Insulation | | | | | | |
| 50 IN1 | 1 | 6"x16" cavity | ceiling insulation | 823.2 | sq ft | \$1.11 |
| 51 IN2 | 1 | 11 7/8"x16" cav | vit floor insulation | 618 | ft | \$0.33 |
| 52 IN3 | 1 | 6"x24" cavity | wall insulation | 449 | ft | \$0.33 |
| 53 | | | | | | Subtotal: \$1265.86 |
| 54 Flooring | | | | | | |
| 55 FL1 | 1 | 1/8" thick | Foam Underlayn | 826.91 | sq ft | \$0.29 |
| 56 FL2 | 1 | 5" wide | Walnut 3-4-5" Pl | 1985 | ft | \$3.75 |
| 57 | | | | | | Subtotal: \$7,633.35 |
| 58 Wall Board | | | | | | |
| 59 WB1 | 1 | | Color - White | 823.2 | sq ft | \$1.50 |
| 60 WB2 | 1 | 48"x96"x1/2" | Drywall | 52 | | \$0.42 |
| 61 WB3 | 1 | 48"x96"x5/8" | Drywall | 27 | | \$0.56 |

| 61 | WB3 | 1 | 48"x96"x5/8" | Drywall | 27 | \$0.56 |
|----|----------|---|------------------|------------------|----|----------------------|
| 62 | | | | | | Subtotal: \$1271.76 |
| 63 | Windows | | | | | |
| 64 | W1 | 1 | 121"x48" | Double Hung | 1 | \$249 |
| 65 | W2 | 1 | 32"x48" | Double Hung | 4 | \$149.99 |
| 66 | W3 | 1 | 72"x48" | Double Hung | 2 | \$249 |
| 67 | | | | | | Subtotal: \$1,346.96 |
| 68 | Doors | | | | | |
| 69 | D1 | 1 | 36"x80"x1 3/4" | Ext. Hinged-750 | 1 | \$73.39 |
| 70 | D2 | 1 | | handle: Knob | 1 | \$11.49 |
| 71 | D3 | 1 | | handle: Lever | 2 | \$24.98 |
| 72 | D4 | 1 | | handle: Lever (e | 3 | \$24.98 |
| 73 | D5 | 1 | | hinge: Standard | 7 | \$3.77 |
| 74 | D6 | 1 | 30"x80"x1 3/8" | Hinged-Door PO | 2 | \$169.42 |
| 75 | D7 | 1 | (2) 28"x80"x1 3/ | Slider-Door P04 | 1 | \$183 |
| 76 | | | | | | Subtotal: \$758.01 |
| 77 | Cabinets | | | | | |
| 78 | C1 | 1 | 24"x24"x36" | base cabinet | 8 | \$250 |
| 79 | C1.1 | 1 | | material - V | 8 | \$2.12 |
| 80 | C1.2 | 1 | 23 7/8"x24 | door - Fram | 8 | \$8.80 |

| 80 | C1.2 | 1 | 23 7/8"x24 | door - Fram | 8 | \$8.80 |
|-----|------|---|-------------|-------------------|----|---------|
| 81 | C1.3 | 1 | 23 7/8"x6 1 | drawer | 8 | \$25 |
| 82 | C1.4 | 1 | | drawer glide | 16 | \$10 |
| 83 | C1.5 | 1 | 1 1/8" | CK 04 (pull) | 8 | \$5 |
| 84 | C1.6 | 1 | | hidden hing | 16 | \$2 |
| 85 | C1.7 | 1 | 4 15/16" | CP04 Bar F | 8 | \$5.27 |
| 86 | C2 | 1 | 24"x24"x36" | base cabinet | 3 | \$250 |
| 87 | C2.1 | 1 | | material - V | 3 | \$2.12 |
| 88 | C2.2 | 1 | 23 7/8"x24 | door - Fram | 3 | \$8.80 |
| 89 | C2.3 | 1 | 23 7/8"x6 1 | drawer | 3 | \$25 |
| 90 | C2.4 | 1 | 1 1/8" | CK 04 (pull) | 3 | \$5 |
| 91 | C2.5 | 1 | | hidden hing | 6 | \$2 |
| 92 | C2.6 | 1 | 4 15/16" | CP04 Bar F | 3 | \$5 |
| 93 | C3 | 1 | 36"x30"x36" | corner base cabi | 1 | \$350 |
| 94 | C3.1 | 1 | | material - V | 1 | \$2.12 |
| 95 | C3.2 | 1 | 5 1/8"x30 3 | door - Fram | 1 | \$11.87 |
| 96 | C3.3 | 1 | 11 1/8"x30 | door - Fram | 1 | \$15.82 |
| 97 | C3.4 | 1 | | hidden hing | 2 | \$2 |
| 98 | C3.5 | 1 | 1 1/8" | CK 04 (pull) | 1 | \$5 |
| 99 | C4 | 1 | 24"x24"x39" | corner wall cabir | 1 | \$250 |
| 100 | 014 | | | | | 40.40 |

| 99 | C4 | 1 | | 24"x24"x39" | corner wall cabir | 1 | | \$250 |
|-----|------|---|---------|-----------------|-------------------|-------|-------|---------|
| 100 | C4.1 | 1 | | | material - V | 1 | | \$2.12 |
| 101 | C4.2 | 1 | | 11 1/8"x38 | | 2 | | \$16.82 |
| 102 | C4.3 | 1 | | | hidden hing | 3 | | \$2 |
| 103 | C4.4 | 1 | | 1 1/8" | CK 04 (pull) | 1 | | \$5 |
| 104 | C5 | 1 | Cambria | | Countertop - Eve | 64.51 | sq ft | \$50 |
| 105 | C6 | 1 | | | countertop finish | 50 | ft | \$5.25 |
| 106 | C7 | 1 | | 36"x24"x84" | utility cabinet | 1 | | \$400 |
| 107 | C7.1 | 1 | | | material - G | 1 | | \$9.05 |
| 108 | C7.2 | 1 | | 16 7/8"x78" | door - Fram | 2 | | \$9.98 |
| 109 | C7.3 | 1 | | 1 1/8" | CK 04 (pull) | 2 | | \$5 |
| 110 | C7.4 | 1 | | | hidden hing | 6 | | \$2 |
| 111 | C8 | 1 | | 24"x12"x39" | wall cabinet | 6 | | 200\$ |
| 112 | C8.1 | 1 | | | material - V | 6 | | \$2.12 |
| 113 | C8.2 | 1 | | 23 7/8"x38 | door - Fram | 6 | | \$22.23 |
| 114 | C8.3 | 1 | | 1 1/8" | CK 04 (pull) | 6 | | \$5 |
| 115 | C8.4 | 1 | | | hidden hing | 18 | | \$2 |
| 116 | C9 | 1 | | 26 3/16"x12"x39 | wall cabinet | 1 | | \$200 |
| 117 | C9.1 | 1 | | | material - V | 1 | | \$2.12 |
| 118 | C9.2 | 1 | | 13"x38 7/8" | door - Fram | 2 | | \$22.59 |

| | OJ.1 | <u> </u> | | material v | - | | ΨΕ.ΙΕ |
|-----|---------------|----------|-----------------|---------------------|-----|----|----------------------|
| 118 | C9.2 | 1 | 13"x38 7/8" | door - Fram | 2 | | \$22.59 |
| 119 | C9.3 | 1 | 1 1/8" | CK 04 (pull) | 2 | | \$5 |
| 120 | C9.4 | 1 | | hidden hing | 6 | | \$2 |
| 121 | | | | | | | Subtotal: \$9767.26 |
| 122 | Interior Trim | | | | | | |
| 123 | T1 | 1 | 3/4"x5" | base molding: B | 162 | ft | \$8.83 |
| 24 | T2 | 1 | 5/8"x3 1/4" | interior casing - / | 220 | ft | \$5.27 |
| 25 | Т3 | 1 | 4 1/2"x3/4" | interior jamb - Al | 50 | ft | \$1.41 |
| 26 | T4 | 1 | 1"x1 5/8" | sill - Alabaster (S | 38 | ft | \$2.07 |
| 127 | T5 | 1 | 5/8"x3 1/4" | window apron - / | 38 | ft | \$0.86 |
| 128 | | | | | | | Subtotal: \$2,742.29 |
| 129 | Electrical | | | | | | |
| 130 | E1 | 1 | ceiling mounted | 3 Blade Ceiling F | 1 | | \$72 |
| 131 | E2 | 1 | ceiling mounted | 4" Recessed Lig | 4 | | \$15 |
| 132 | E3 | 1 | wall mounted | Duplex Receptad | 5 | | \$0.87 |
| 133 | E4 | 1 | wall mounted | GFCI Receptacle | 2 | | \$14.99 |
| 134 | E5 | 1 | wall mounted | Single Pole Swit | 3 | | \$2.50 |
| 135 | | | | | | | Subtotal: \$173.83 |
| 136 | | | | | | | Total: \$44,332.42 |

Material List/Cost Summary

The total material cost for the ADU is \$44,332.42. This amount reflects the construction materials only, excluding all furniture, appliances, and interior décor. The pricing includes essential components such as framing lumber, sheathing, roofing, siding, insulation, drywall, flooring, doors, windows, trim, and other necessary building materials to complete the structure of the ADU. All pricing was based on current retail and contractor-rate estimates from trusted suppliers, including:

- Home Depot
- Menards
- Lowe's
- Walmart (for select household building materials and finishes)
 and other local material suppliers in the Bettendorf, lowa area

Sustainability Features

Window Placement: Window placement in this ADU is guided by both functional and environmental considerations. Openings are oriented to optimize natural light, cross ventilation, and passive heating while maintaining visual privacy from the primary residence. The mix of window sizes enhances spatial comfort, framing outdoor views and improving the overall livability of the compact layout. **Energy Efficient Highlights:** Energy efficiency is achieved through high-performance building materials and passive design strategies. The compact footprint reduces energy demand, while quality insulation, double-pane windows, and sealed construction maintain interior comfort. Orientation and window placement take advantage of natural daylight and ventilation to lower heating and cooling loads.

Final Design

Key Benefits:

- Compact, efficient layout that's affordable to build and easy to maintain
- Private living space with a strong connection to the main property
- Energy-efficient design that reduces long-term costs
- Bright, modern interior with plenty of natural light
- Functional for independent living while staying close to family

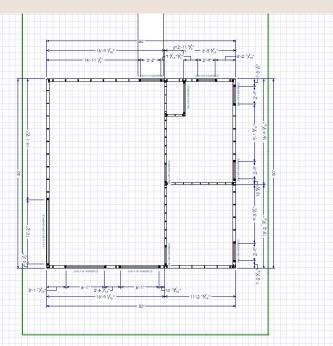
Final Thoughts: In conclusion, this ADU demonstrates how compact design and thoughtful planning can create a highly functional, efficient, and attractive living space. Through careful attention to layout, privacy, and environmental performance, the project enhances the property's value while providing a warm, independent home environment. While still following lowa regulations.

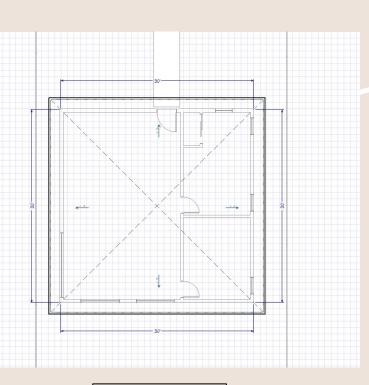
Contact Info:

Logan Van Daele

(563)-271-8648

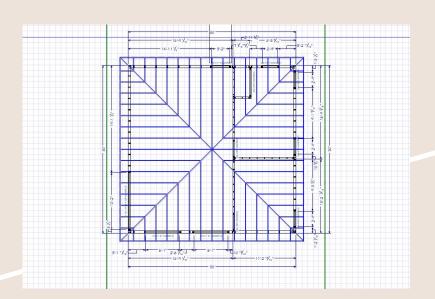
loganvandaele@gmail.com

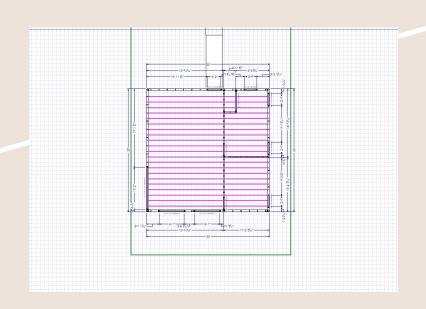




Exact Dimensions per room

Roof Plan View



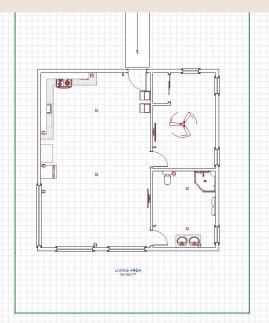


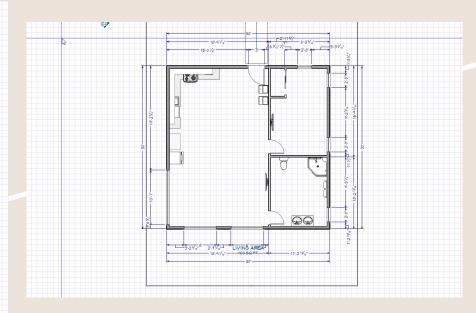
Framing Views





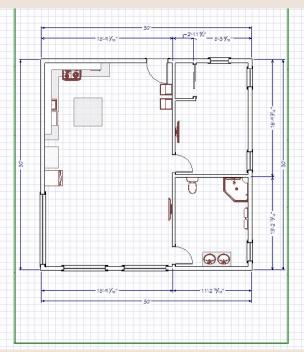
3D Framing Views

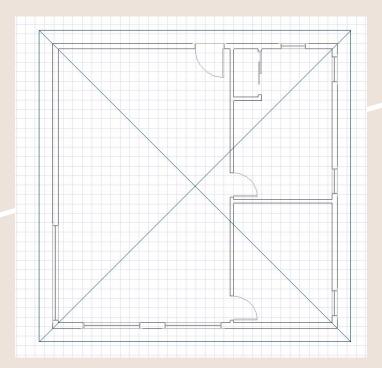




Appliance view

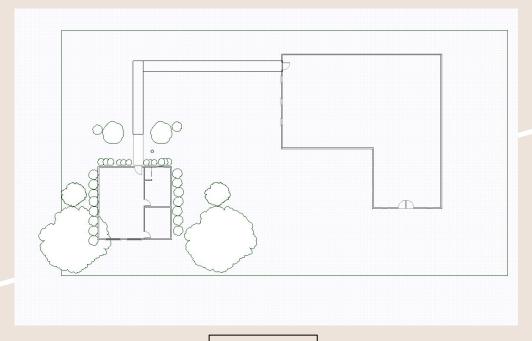
Electrical View





Mechanical View

Plot View



Terrain View