

portfolio

Patricia Zambrano · 2026



ABOUT

Patricia Zambrano

Architecture student at Texas A&M University exploring how design can shape the way people experience and interact with space.

Interested in the relationship between interior and exterior spaces, movement, and the way architecture responds to its environment. I enjoy exploring how materials, natural light, and form can work together to create spaces that feel intentional and connected to their surroundings.



EDUCATION

B.S. Architecture | Minor in Sustainable Architecture and Planning, Texas A&M University

Expected 2029

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SKILLS

Rhino 8

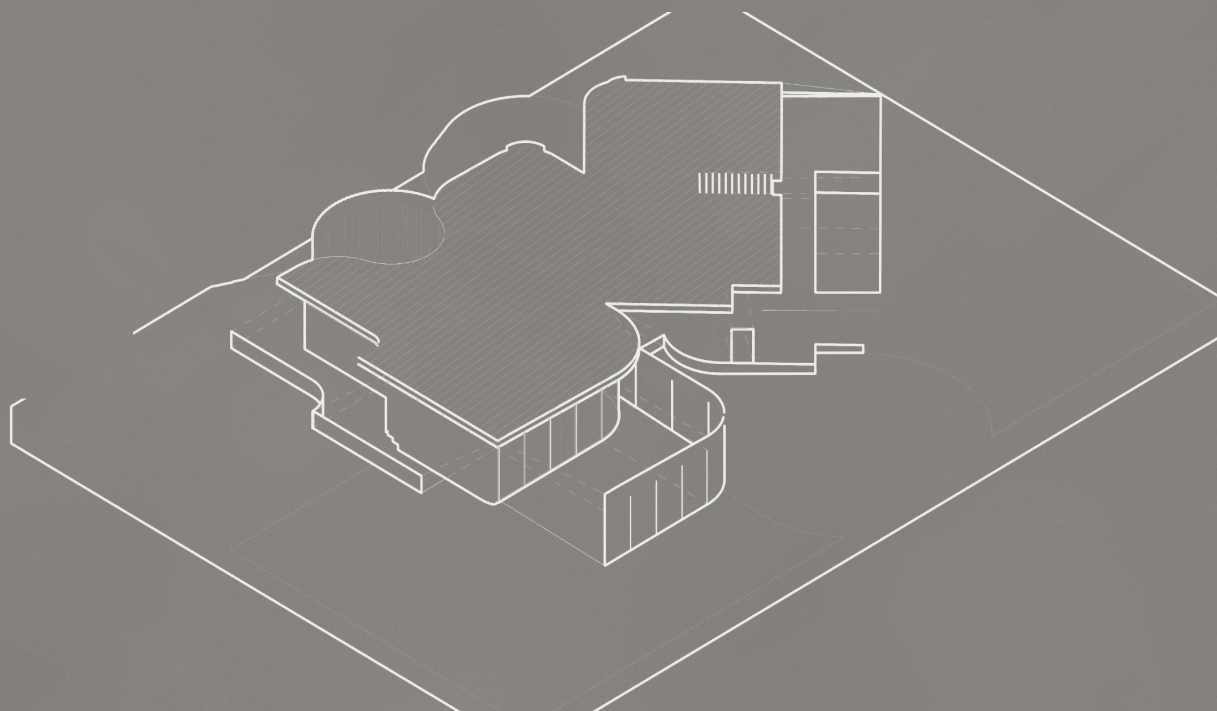
Adobe InDesign, Illustrator, Photoshop

Rendering + AI post-processing

Physical model making, 3D printing

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01

01

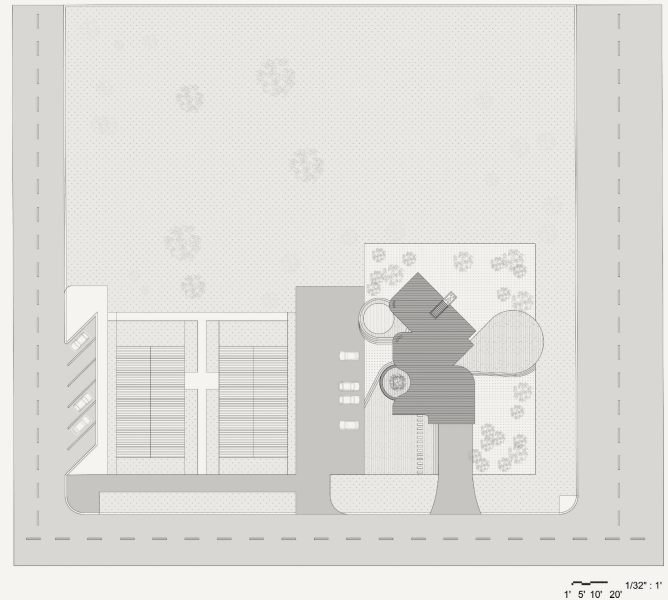
Next House USA

A cross-ventilated duplex for two families in Bryan, Texas.

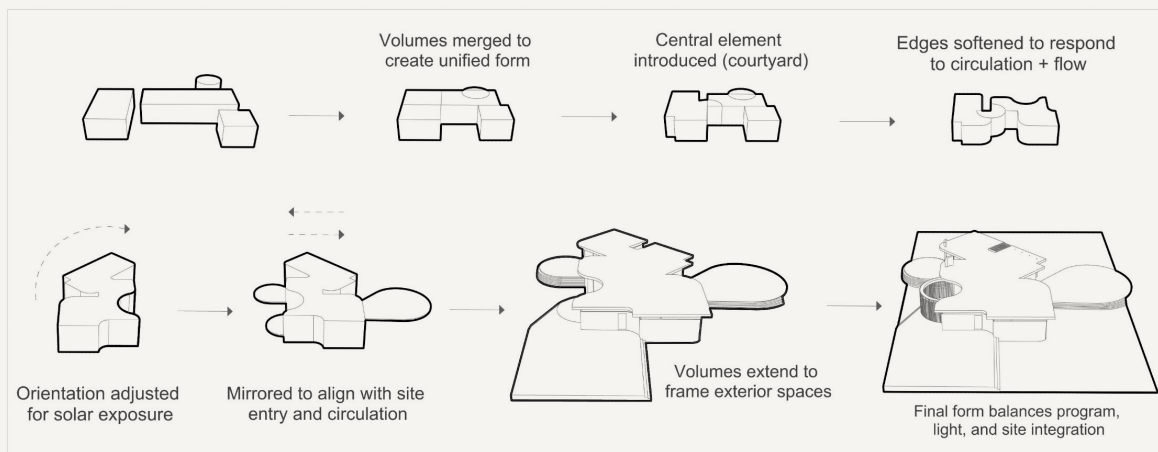
BRYAN, TEXAS · ARCH 106 · SPRING 2026

This project explores how movable walls can encourage cross ventilation and passive cooling in a duplex in Bryan, Texas. The house fits two units: one for a larger family and a smaller one-bedroom unit.

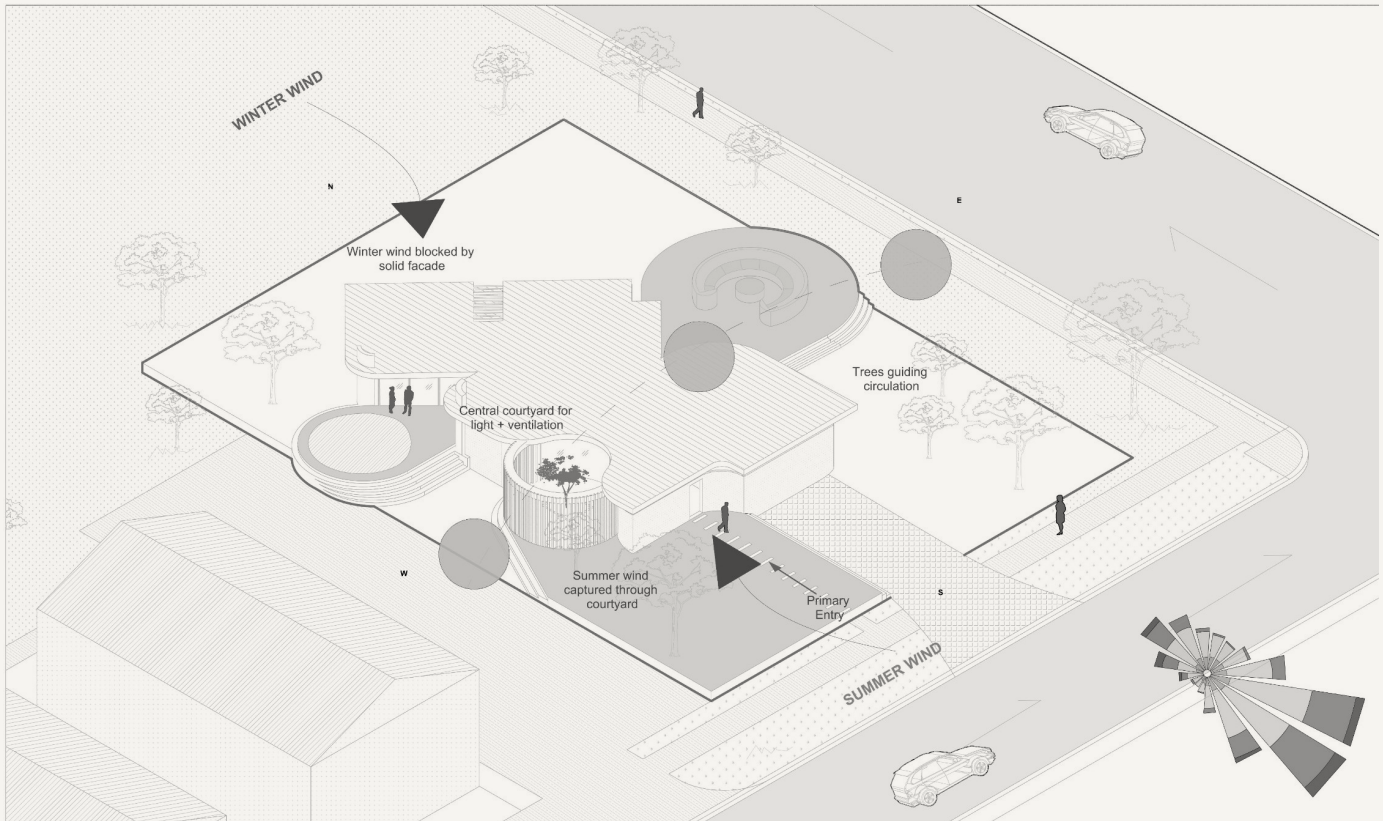
Natural airflow comes in through the movable walls and the shared courtyard.



SITE PLAN



FORM DEVELOPMENT

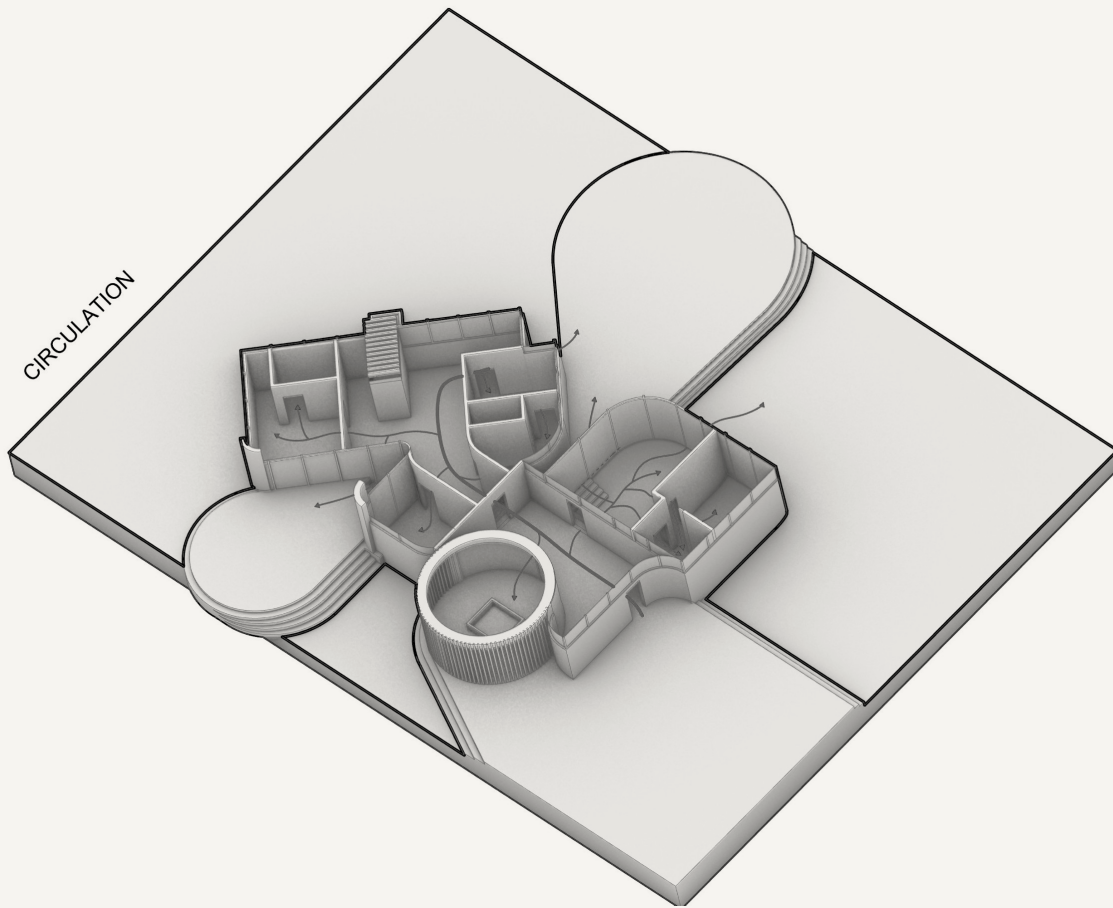


SITE STRATEGY

Site and climate

The house is oriented to catch the prevailing breeze from the south. A solid facade blocks the winter wind, while the central courtyard captures summer air and brings light and ventilation into both units.

The site sits in the Downtown North district, with public transit and everyday amenities within a 5 to 20 minute walk.

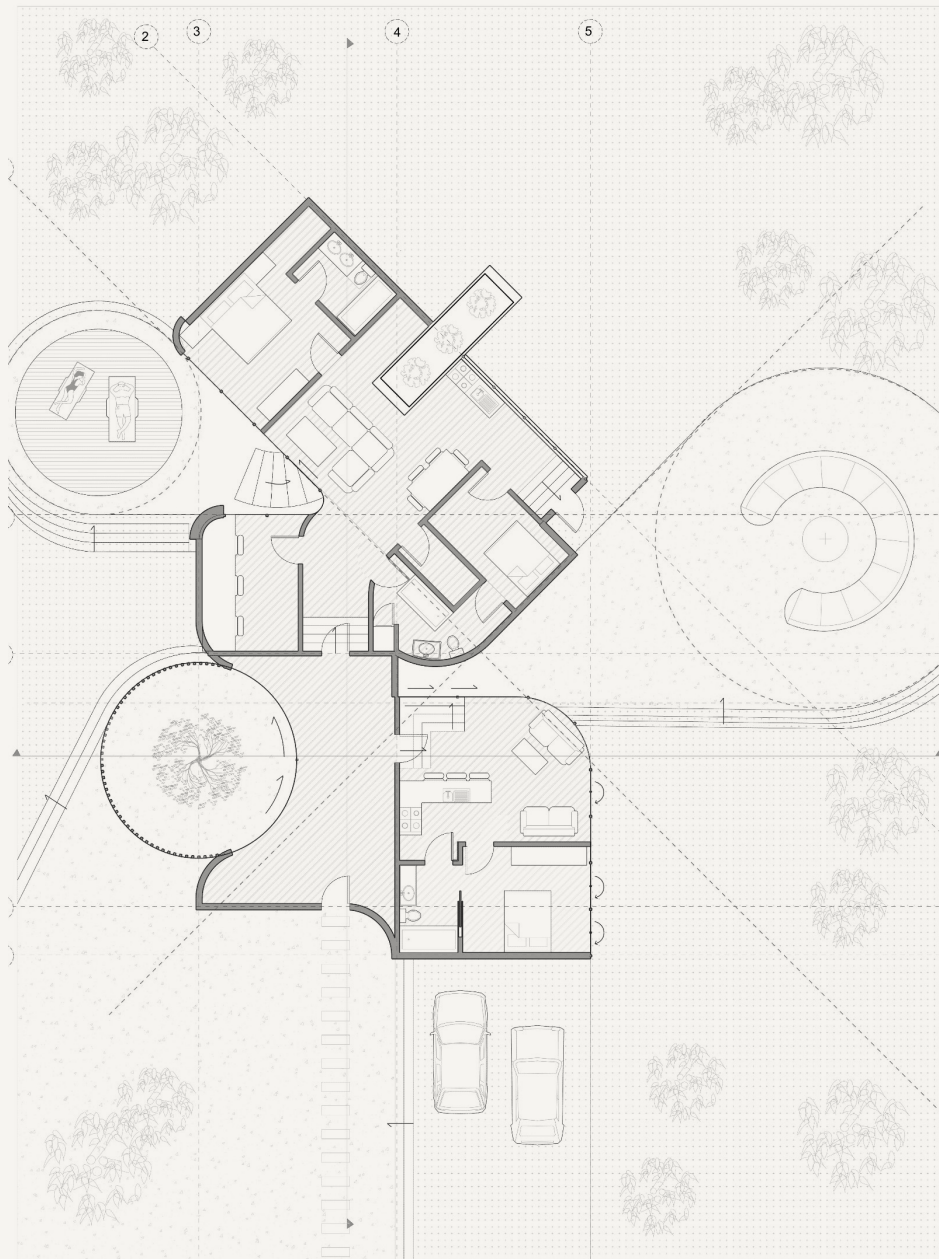


CIRCULATION

Movement and light

Residents move through both units and out into the shared courtyard. A lowered wall in the courtyard directs air and, with the furniture, separates zones inside.

Windows bring in daylight, and a pivot-hinged glass door opens each unit to the outdoors.

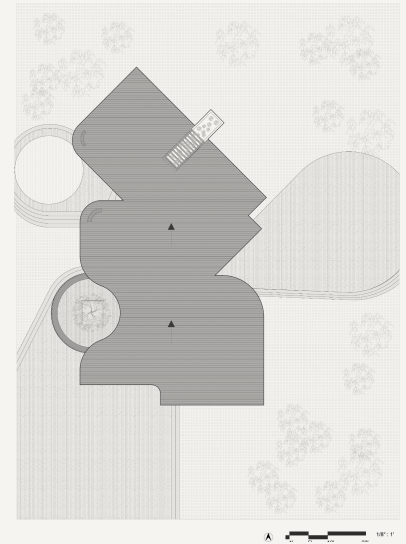


FLOOR PLAN

Plans

Both units share a central courtyard that drives the passive cooling. Movable walls and operable doors on both sides let air flow through, and sliding windows keep it moving.

A small pool, a sitting area and a fireplace extend the interior outdoors. The roof rises toward the entrance to make it feel welcoming.

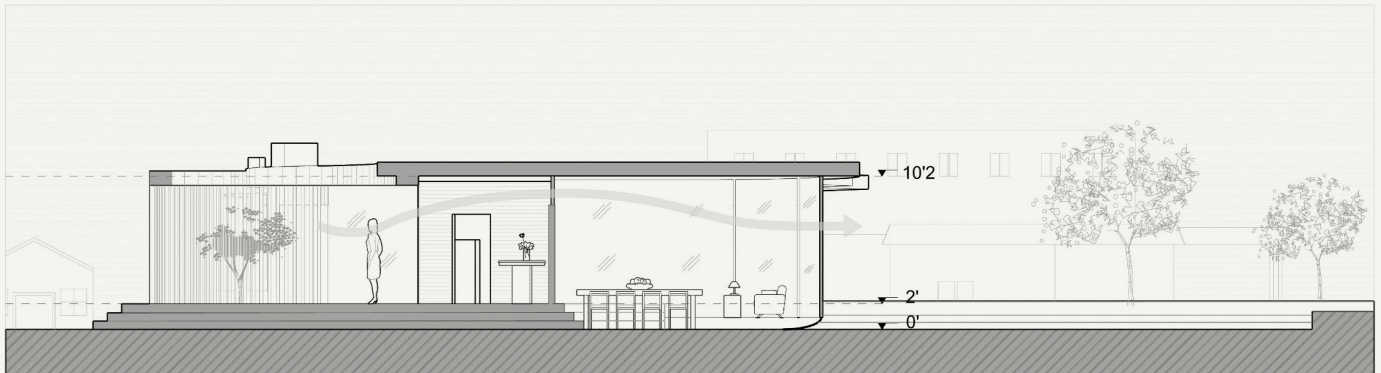


ROOF PLAN





PERSPECTIVE SECTION



TRANSVERSE SECTION

Sections

The single sloped roof rises toward the entrance. The transverse section traces the breeze from the courtyard through the living spaces and out the other side of the house.



EAST ELEVATION



WEST ELEVATION

Elevations and materials

The elevations show how the building responds to its surroundings through material and roof slope.

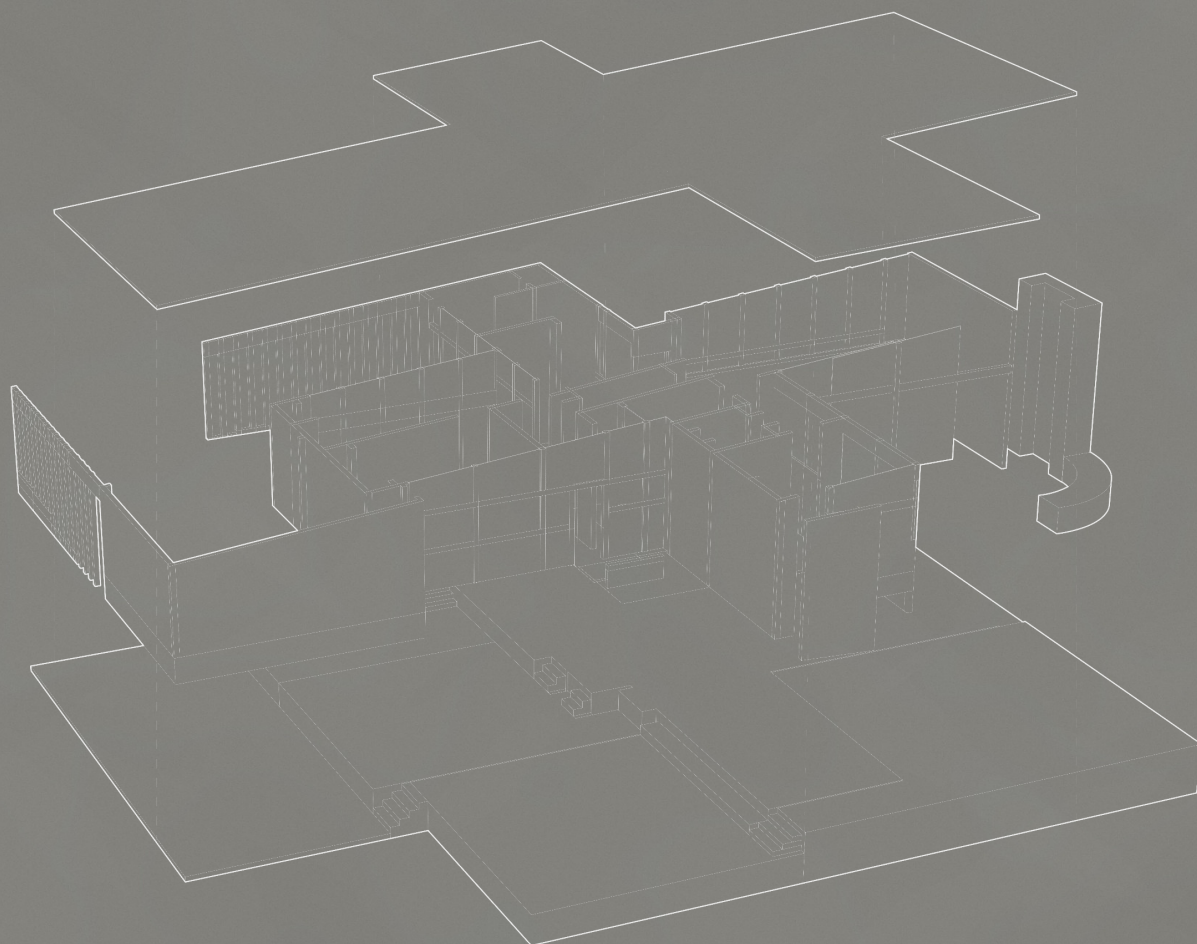
Limestone, wood, steel, concrete and glass: a mix that feels modern but still warm.











02

02

Precedent Analysis

Two Case Study houses, Neutra's Omega House and the Miller House, rebuilt in Rhino and as physical models.

ARCH 106 · SPRING 2026

Project 02 used precedent to understand how form, space, structure and program come together. Rather than starting from an original design, it began with close observation and reconstruction of two existing houses.

Each house was rebuilt as a digital twin in Rhino and as a scaled physical model, moving between the two to study proportion, openings and the relationships between spaces.

IN THIS SECTION

Omega House

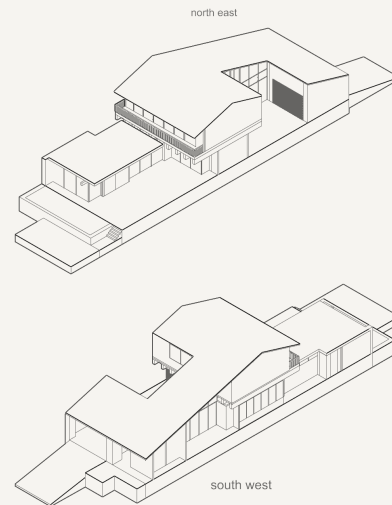
CASE STUDY HOUSE NO. 6 · P. 18

Miller House

CASE STUDY HOUSE ADAPT 10 · P. 20



OMEGA HOUSE — MODEL



MILLER HOUSE — AXONOMETRIC

PRECEDENT A

Omega House

Case Study House No. 6,
Richard Neutra, 1945.

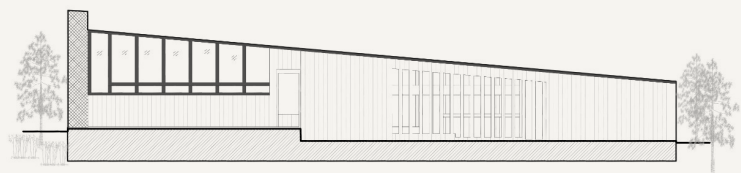
DIGITAL TWIN IN RHINO · PHYSICAL MODEL

Neutra’s Case Study House No. 6 mediates between indoor and outdoor space through a steel-and-glass frame. Its plan follows a single dominant axis, and its glazing is set for passive solar gain.

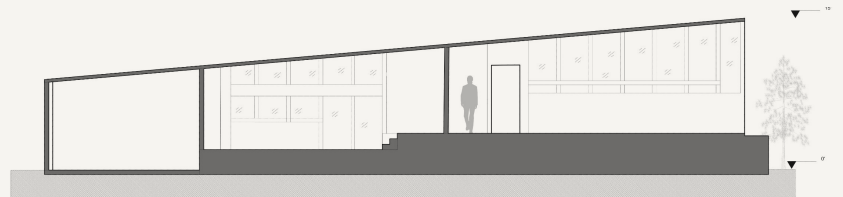
Rebuilding it in Rhino shifted the focus from looking at the house to understanding the decisions behind its structure, circulation and program.



FLOOR PLAN



SOUTH AND WEST ELEVATIONS



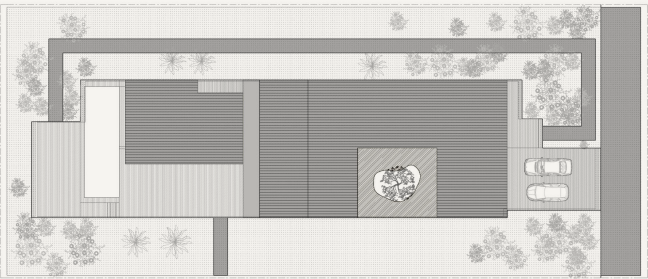
SECTION

PRECEDENT B

Miller House

Case Study House Adapt 10, a contemporary adaptation, 2010.

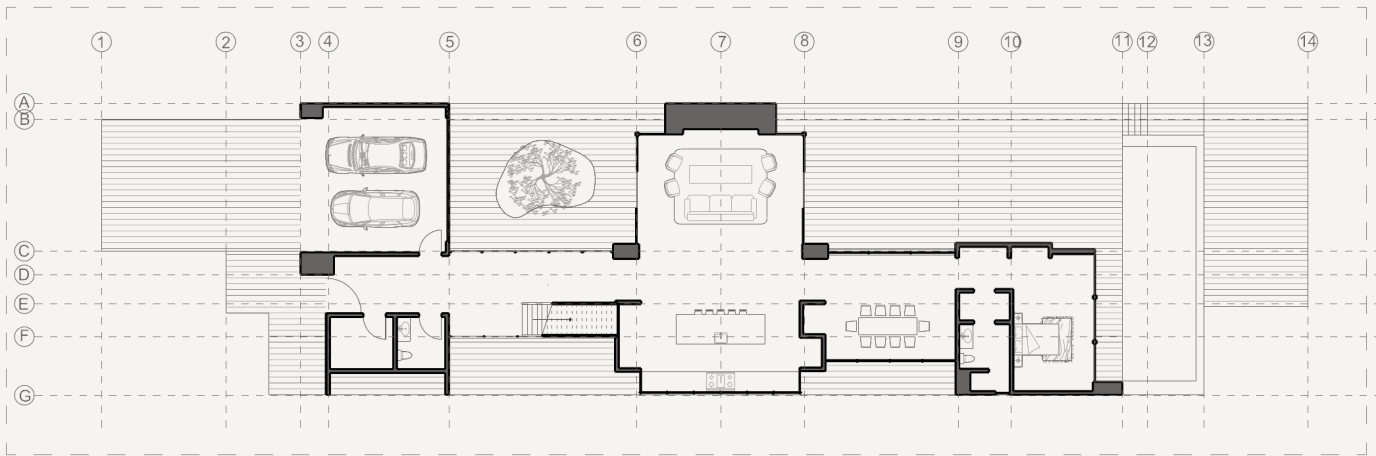
SCALED DRAWINGS · PHYSICAL MODEL



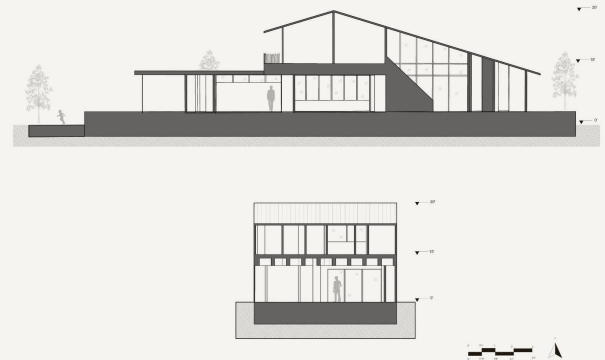
SITE PLAN

The Miller House revisits the Case Study program for today, with updated materials, a new sequence of spaces and passive environmental systems.

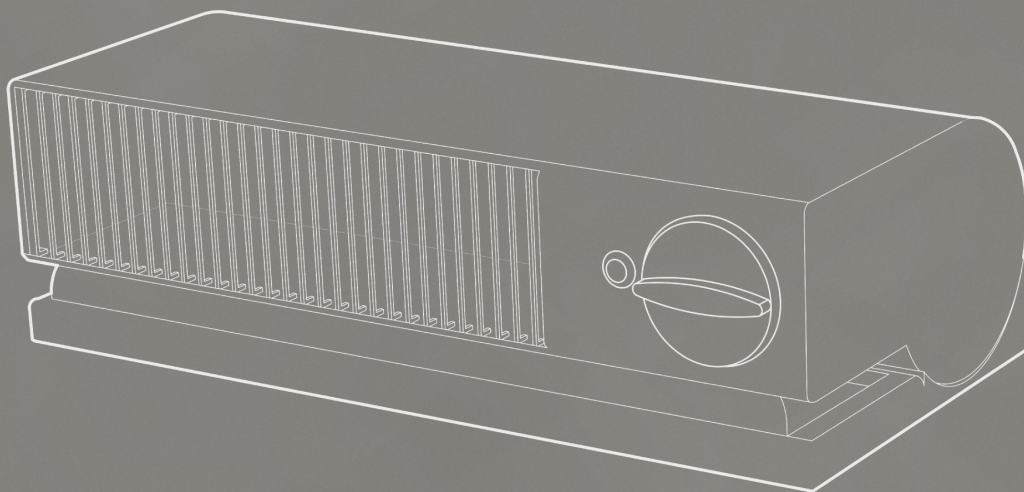
Scaled drawings and a physical model tested how ideas can be taken from a precedent and reinterpreted rather than copied, sorting the house into primary, secondary and tertiary spaces.



FLOOR PLAN



SECTIONS



03

03

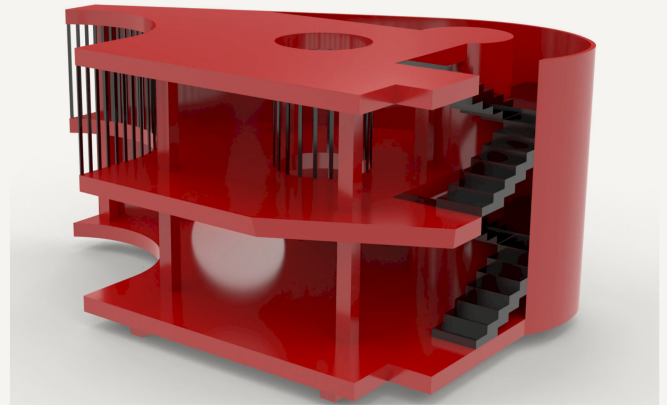
Household Hybrids

A 1970s Siemens fan heater hybridised with Le Corbusier's Dom-ino frame to become a small pavilion.

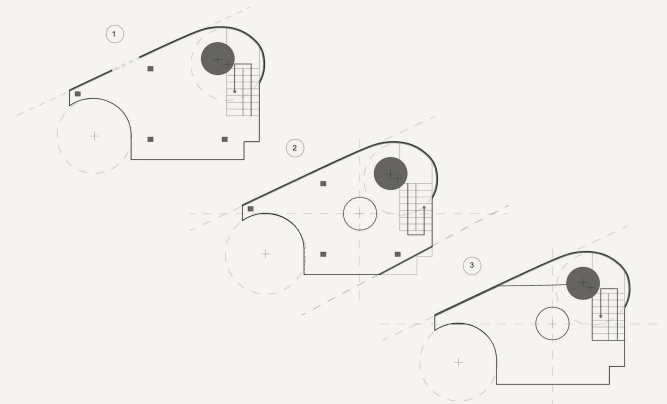
SIEMENS OT 2610 FAN HEATER · ARCH 106 · SPRING 2026

This project translates an everyday object into architecture. It began with a close study of the heater through photographs, digital models, drawings and renderings of its form.

In the second phase the object was combined with Le Corbusier's Maison Dom-ino, whose slabs and columns gave it a structural logic, and reinterpreted as a small pavilion.



THE OBJECT



PLANS

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