

CASE STUDY 2.0
REBUILDING LOS ANGELES

*A Visionary
Catalog for
Resilient and
Sustainable
Homes*





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M-Rad is a Los Angeles-based architecture studio founded by Matthew Rosenberg. The practice views design as a tool to address larger systems shaping urban life. Rather than separating architecture from development, branding, or community use, M-Rad engages each layer holistically, understanding that meaningful architecture emerges from the intersection of these forces. The studio’s integrated model spans early analysis, design, and implementation, enabling context-specific solutions that respond to climate, culture, and program. This approach supports a rigorous process while remaining adaptable and forward-thinking.

The firm’s portfolio spans residential, commercial, and hospitality work, each project guided by an interest in how architecture can evolve with shifting social patterns, environmental realities, and cultural identity. M-Rad’s methodology incorporates data, material performance, and community insight to produce designs that are as responsive as they are expressive. The studio’s design language avoids formulas and instead emerges from research and a deep sensitivity to form, function, and context.

M-Rad’s interdisciplinary team of architects and designers works collaboratively across scales and typologies. This structure fosters a process-driven design ethos that values iteration, transparency, and long-term cultural and spatial relevance. The studio is especially drawn to projects that challenge conventions, offer room for innovation, and require both creative ambition and technical precision. For clients seeking a practice that treats architecture as both a built solution and a social instrument, M-Rad brings a thoughtful, research-based partnership.

PROJECT NARRATIVE



This residence, located on a lot recently affected by the Los Angeles wildfires, is conceived as a resilient response to both environmental risk and the unique topography of Pacific Palisades. The architectural strategy emphasizes clarity, passive performance, and long-term adaptability, anchored in a design language that privileges openness, material integrity, and landscape integration.

The home is organized as a linear composition of interconnected volumes beneath a distinctive single-sloped roof. This gesture not only reflects the natural incline of the site but also strengthens the spatial hierarchy, placing the open-plan living, dining, and kitchen area at the center of the house as its spatial and social core. Floor-to-ceiling glazing in this main volume frames views toward the backyard and pool terrace while inviting southern light deep into the interior.

The plan distinguishes private and public areas with clarity. A central corridor extends along the more enclosed rear wing, organizing three bedrooms and two bathrooms with efficient circulation and privacy. At the front, the entry sequence unfolds with restraint, buffered by native vegetation and articulated through a recessed door and vertical glazing that introduces light into the core.

Resilience is embedded in every material decision. The exterior is clad in fiber-cement and metal paneling, chosen for their fire resistance and durability. The deep roof overhangs are fitted with concealed ember-resistant venting and are detailed in wood-look finishes that add warmth without compromising safety. All windows are high-performance assemblies with tempered glass, while the restrained footprint minimizes vulnerable articulation.

Interior finishes complement the exterior's calm rigor with natural textures. Wood-lined ceilings, stone surfaces, and custom millwork contribute to a tactile and serene atmosphere. The integration of landscape plays a vital role: from drought-tolerant plantings to framed garden courtyards, every room maintains a visual and spatial relationship to the surrounding nature.

At its core, the project is about rebuilding with care. It offers a refined domestic environment that balances protection and openness, grounding itself in the rhythms of daily life and the evolving resilience of the California landscape.

PARCEL INFO & DIAGRAMS

ADDRESS: 806 EL ORO LANE, PACIFIC PALISADES



BUILDING AREAS

GROSS FLOOR AREA:	2,550 SQ. FT.
GARAGE AREA:	435 SQ. FT.
TOTAL AREA:	2,985 SQ. FT.
FOOTPRINT:	84' x 69'5"
HEIGHT:	15'8" < 30' MAX

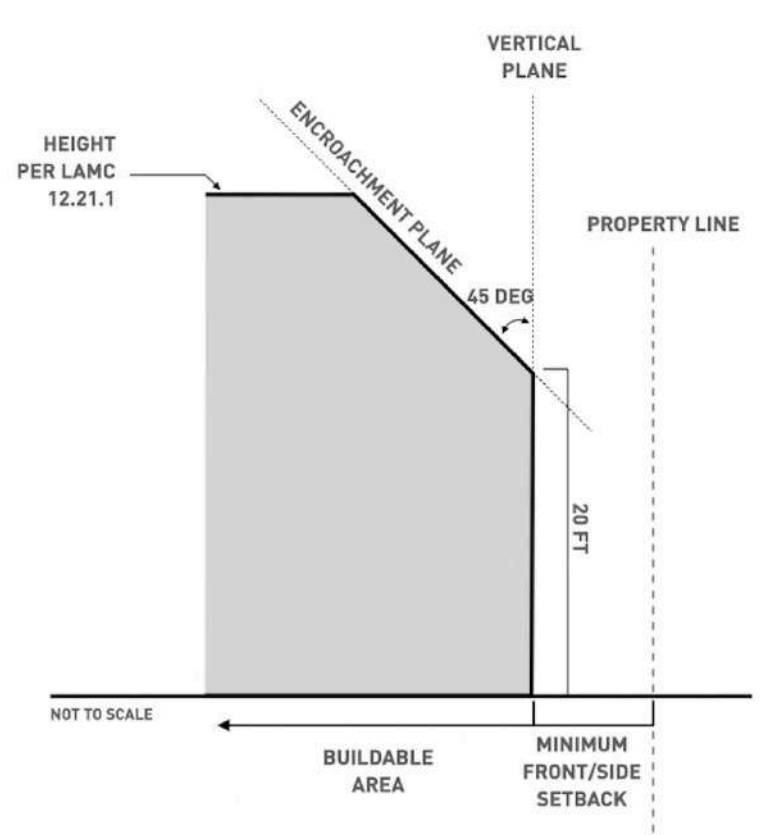
PROGRAM

LEVEL 1:	FOYER, KITCHEN , DINING AND LIVING ROOM 3 BEDROOMS / 2.5 BATHROOMS (INCLUDING MASTER) OUTDOOR DECK AND GARDEN 2 COVERED PARKING SPACES
OPTIONAL:	BASEMENT

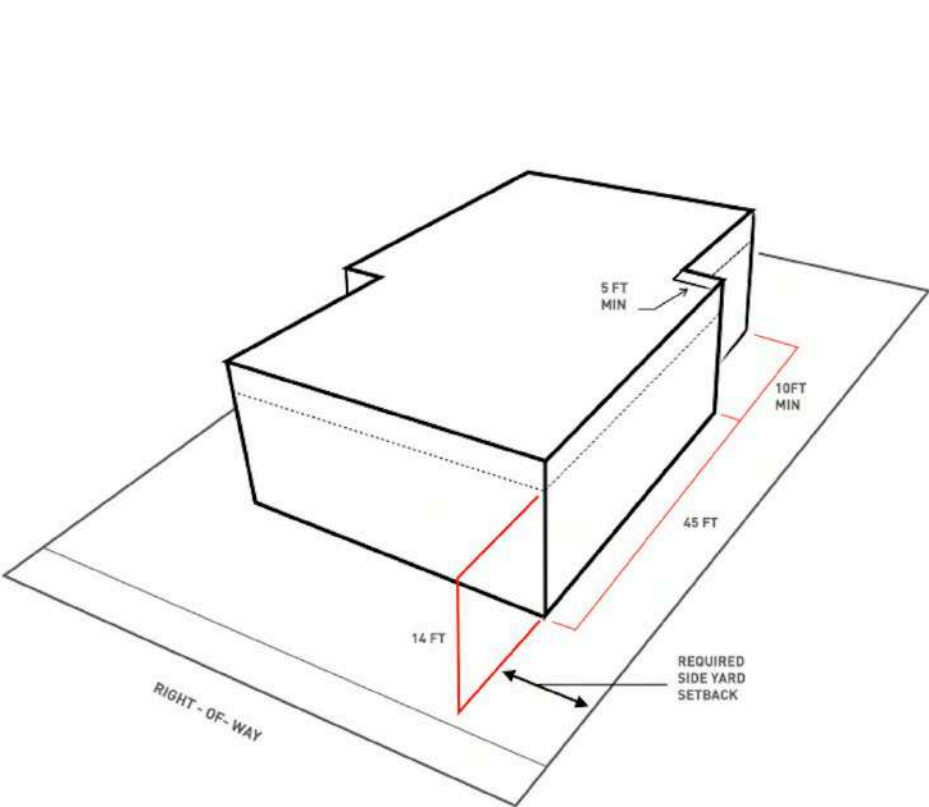
PROJECT DATA

SITE ADDRESS:	806 EL ORO LANE, PACIFIC PALISADES
LOT AREA:	11,475 SQ. FT.
ZONED:	R1-1
MAXIMUM ENVELOPE HEIGHT:	30' / 2 STORIES (TBD)
SETBACK REQUIREMENTS:	FRONT 20' REAR 15' SIDE 5'
PARKING REQUIREMENTS:	2 COVERED SPACES (TBD)
PREVIOUS BUILDING AREA:	2,318 SQ. FT.
110% EXCEPTION:	2,549 SQ. FT.
LOT COVERAGE:	≤ 45%

BUILDING HEIGHT DIAGRAM



BUILDING ENVELOPE AND SETBACK DIAGRAM



DESIGN FEATURES



FIRE RESISTANCE

The home uses non-combustible materials and tightly sealed assemblies to enhance fire resistance, meeting or exceeding California’s WUI standards.



ROOFING

The home features high-performance roofing systems designed for durability, energy efficiency, and resistance to fire, wind, and water intrusion.



BUILDING SIDING

The home incorporates durable, fire-resistant siding materials, such as metal panels, designed to withstand harsh weather and minimize maintenance over time.



WINDOWS & DOORS

The home is equipped with high-performance windows and doors featuring dual or triple glazing, low-E coatings, and tightly sealed frames to enhance energy efficiency, security, and fire resistance.



DEFENSIBLE SPACE INTEGRATION

The home is designed with defensible space in mind, incorporating strategic landscaping, non-combustible surfaces, and site planning.



VENTS

The home is outfitted with WUI-compliant vents featuring corrosion-resistant metal and fine mesh screens that block airborne embers, reducing the risk of ignition in vulnerable areas.



EMBER-RESISTANT FEATURES

The home integrates ember-resistant design elements such as sealed eaves, ignition-resistant materials, and minimal overhangs to prevent ember intrusion and reduce vulnerability during wildfires.



SUSTAINABILITY

The home prioritizes sustainability through energy-efficient systems, low-waste construction, high-performance insulation, and materials.



DESIGN QUALITIES

The home combines modern aesthetics with functional design, offering clean lines, open spaces, and customizable layouts.



CONSTRUCTION METHODOLOGY

The home is manufactured in controlled factory settings using advanced building technologies, ensuring higher quality, faster timelines, reduced waste.



EFFICIENCY

The home is engineered for maximum efficiency, with optimized energy use, superior insulation, air-tight construction, and integrated smart systems.



STYLE FEATURES

The home seamless indoor-outdoor connections, designed to reflect both elegance and livability.



ADDITIONAL SPECIAL FEATURES

The home can include smart home integration, solar-ready infrastructure, energy storage options, water-saving systems, and optional wellness features like advanced air and water filtration.



CUSTOMIZATION POTENTIAL

A range of materials and customization options will be available.

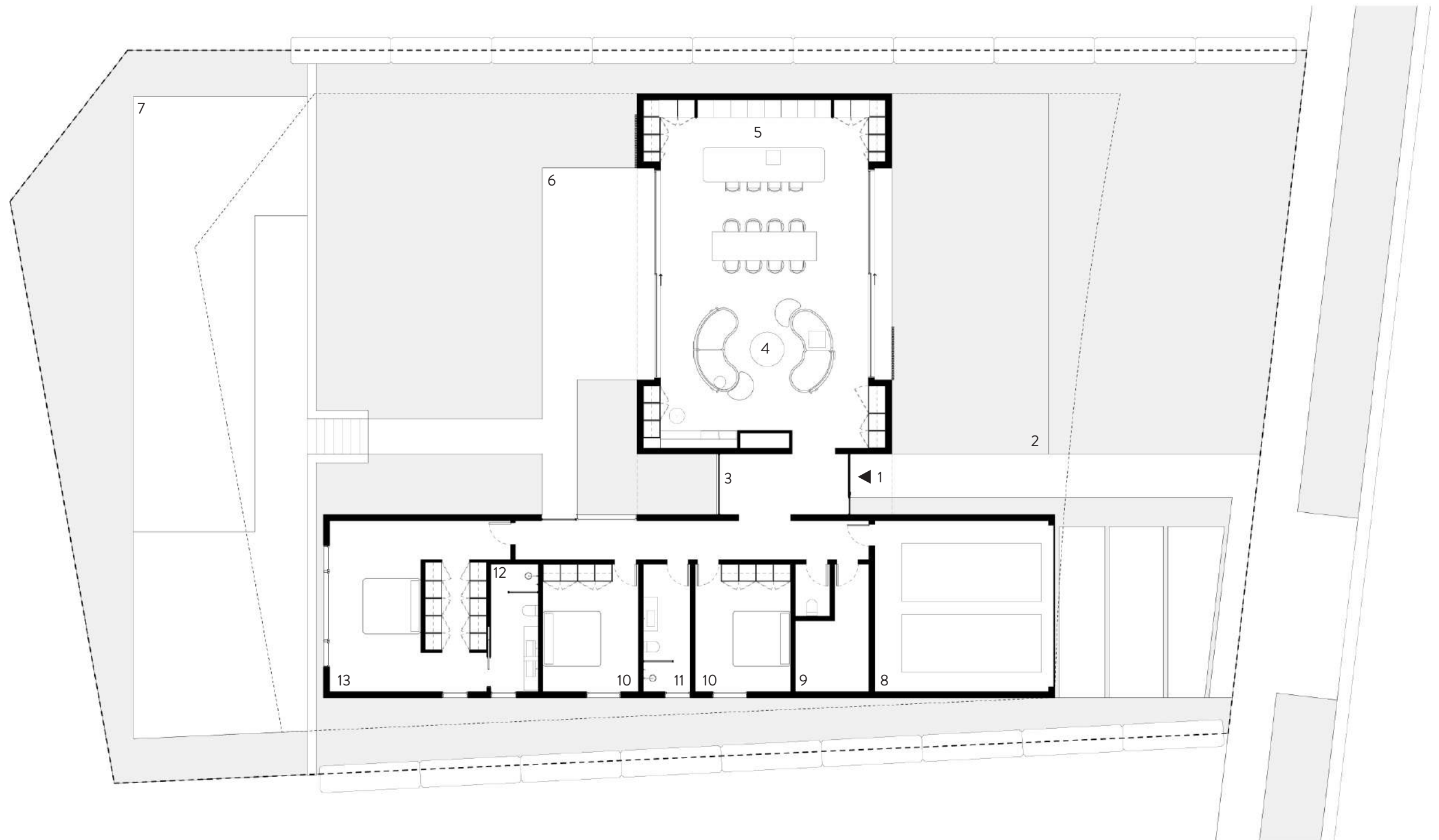
GROUND LEVEL

AREA CALCULATIONS

House Dimension 84' x 69'5"
Gross Area 2,550 Sq. Ft.

LEGEND

1. Entrance
2. Front yard
3. Reception
4. Living Room
5. Kitchen
6. Outdoor Deck
7. Existing Swimming Pool
8. Garage
9. Laundry and MEP
10. Bedrooms
11. Bathrooms
12. Master Bathroom
13. Master Bedroom
14. Solar Array Footprint

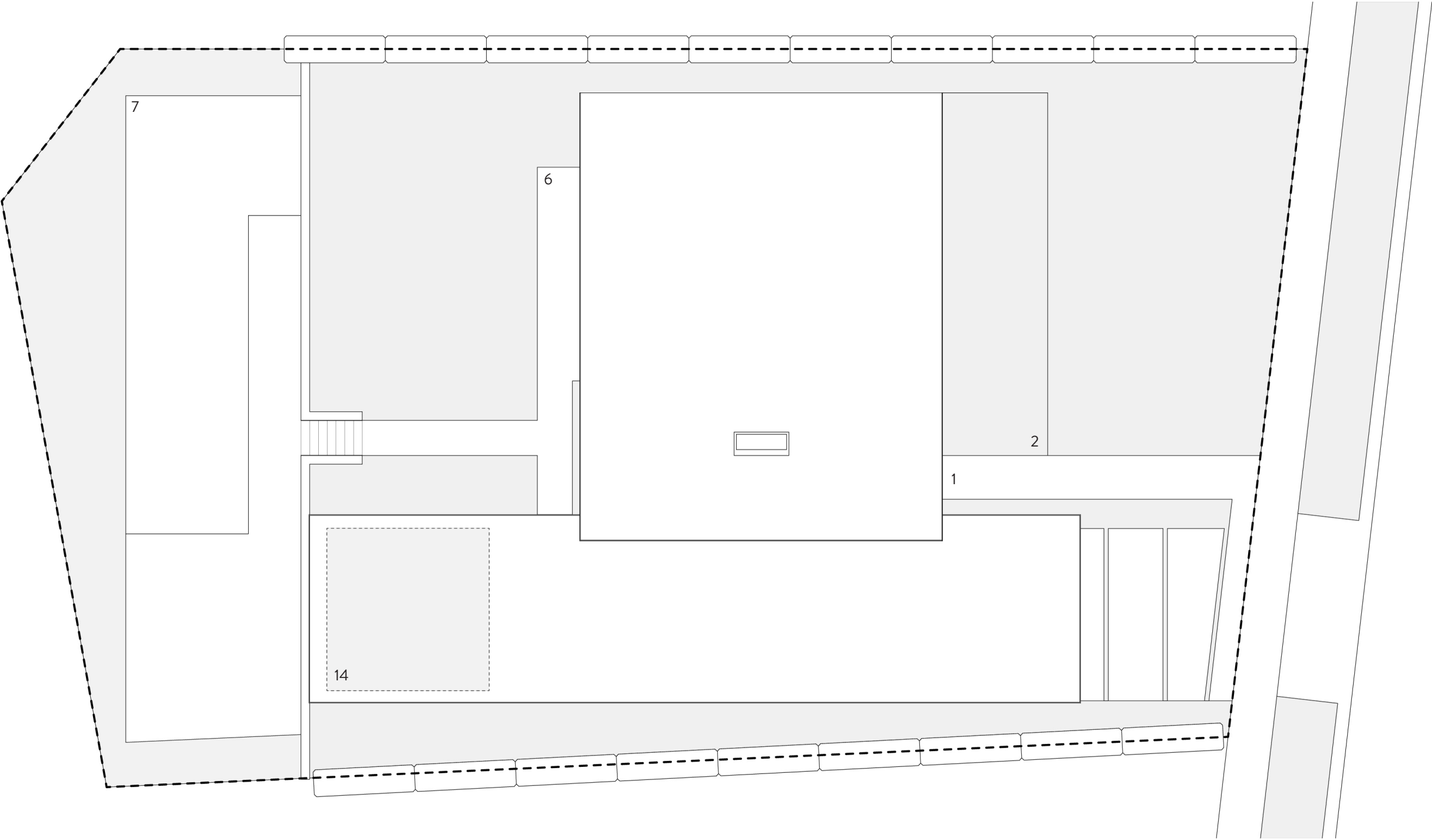


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- 10. Bedrooms
- 11. Bathrooms
- 12. Master Bathroom
- 13. Master Bedroom
- 14.Solar Array Footprint



SECTION



SECTION AND SIDE ELEVATION



STYLE OPTION: LIGHT COASTAL FINISH



STYLE OPTION: WARM NATURAL FINISH











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