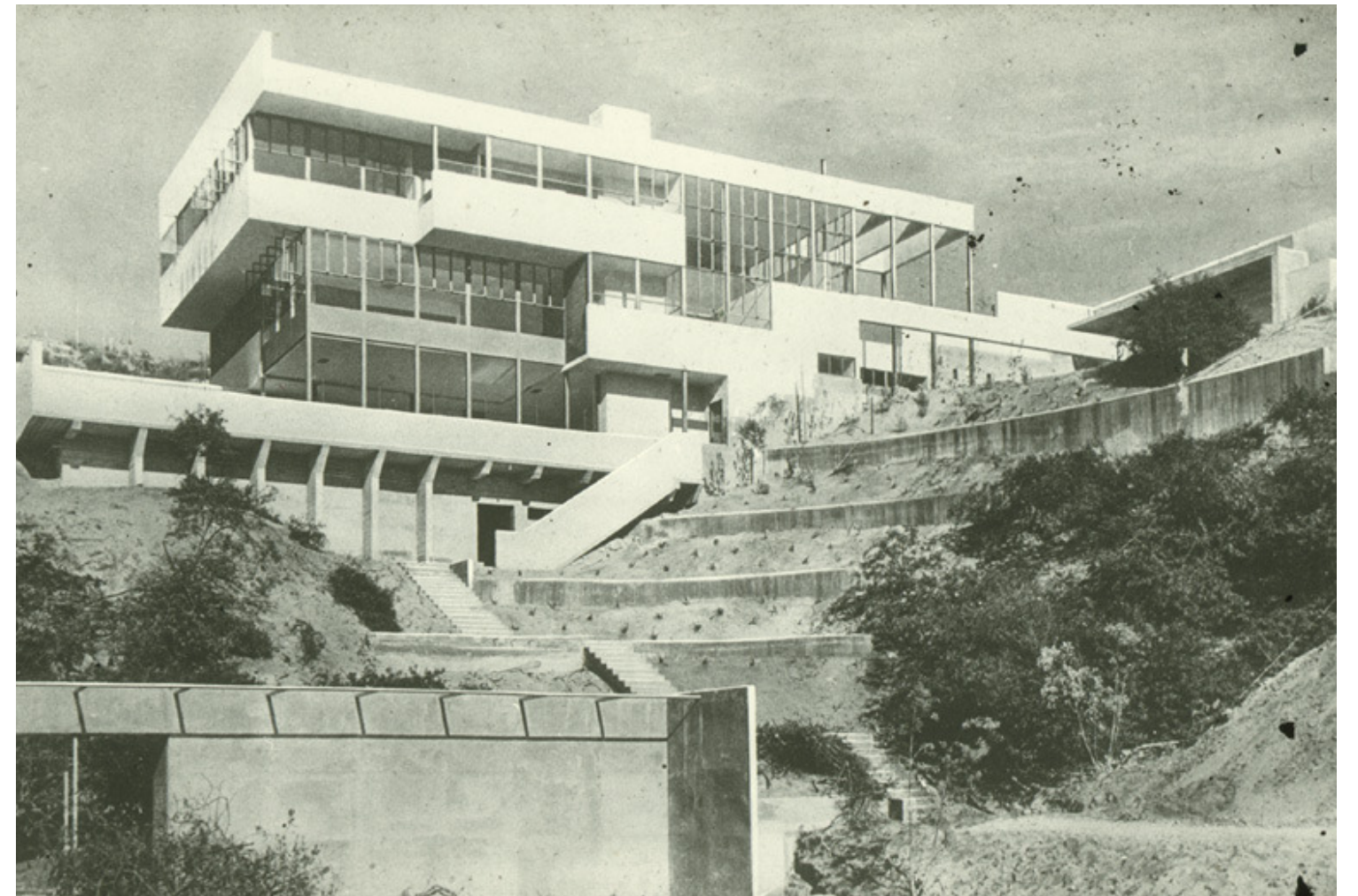


Case Study: **Lovell Health House**

Architect: **Richard Neutra**

Year Completed: **1929**

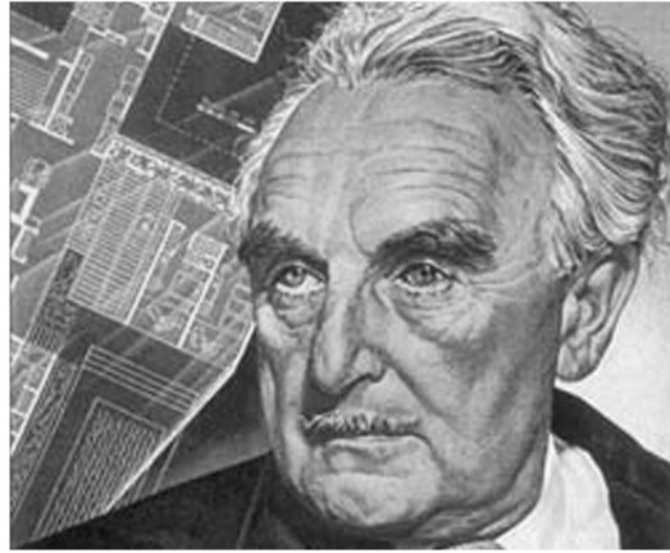
Location: **4616 Dundee Drive, Los Angeles**



Residential Precedent : “Lovell Health House” : Richard Neutra : 1929

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The Architect : Richard Neutra was born in Austria and interned under Adolf Loos and Erich Mendelsohn. Shortly after moving to the U.S He lived in the kings road house with his peer from university, Rudolf Schindler. Along with Schindler, Neutra is one of the Founders if California Modernism. He Designed with a succinct intent that promoted healthy living, and catered specifically to client needs. Neutra Was Fascinated With Mass Production and prefabrication; so much so that a stairwaill in the lovell house is adorned with Model T Ford Headlamps. Cost Efficient design was important to Neutra, and he served as the contractor on the Lovell Health House, as well as the Hollyhock house of Frank Lloyd Wright.



The Client : Philip Lovell was a well regarded Los Angeles Physician, and could be described as the resident health nut of that period. He had a fascination with how homes could inspire healthy living. His Beach House and City house form much of the cannon for southern californian Modern Movement. The Lovell Beach house was Designed by Rudolf Schindler just a few short years before the Lovell Health House



Kings Road House

Rudolf Schindler
1922



Bauhaus School

Walter Gropius
1925



Hollyhock House

Frank Lloyd Wright
1921

Residential Precedent : “Lovell Health House” : Richard Neutra : 1959

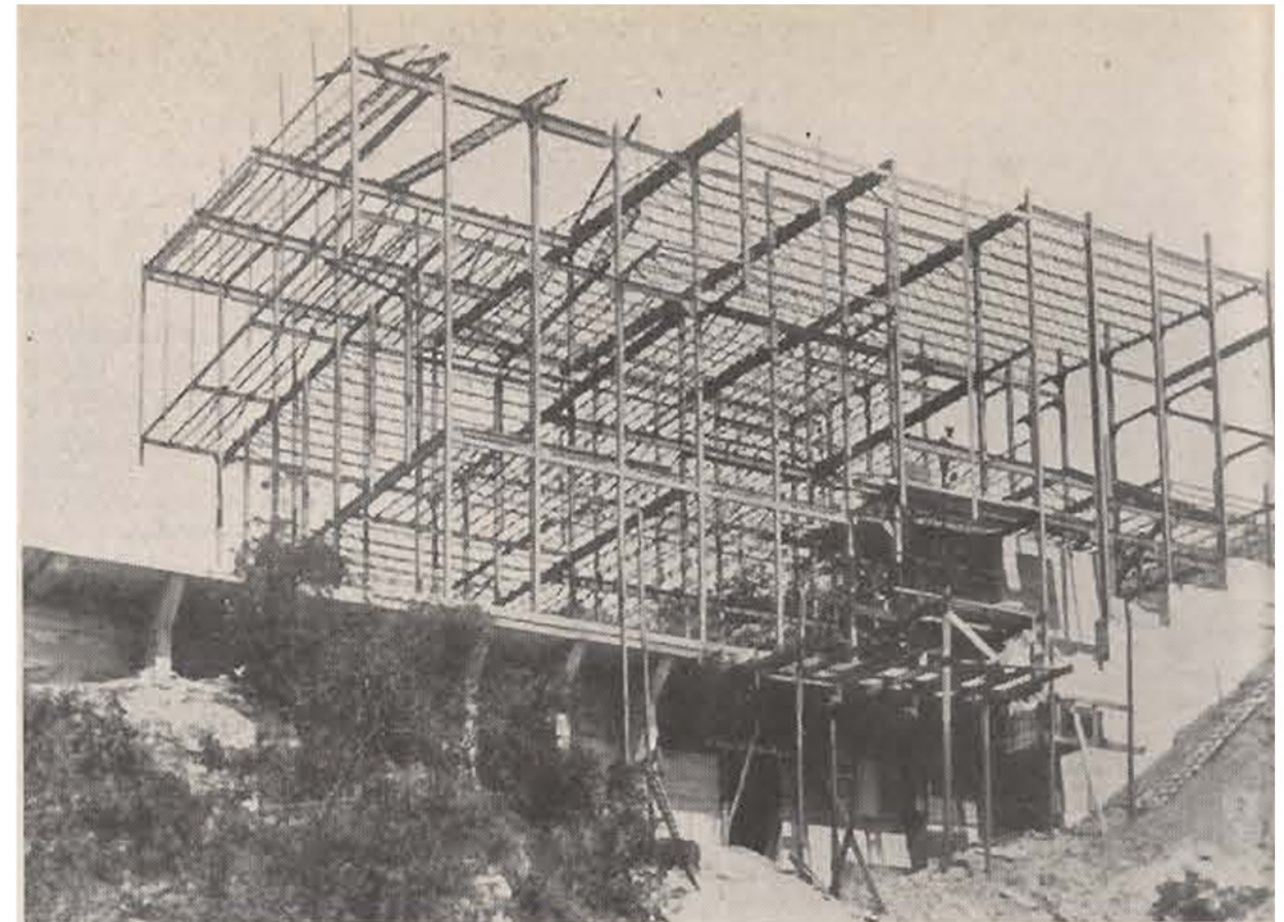
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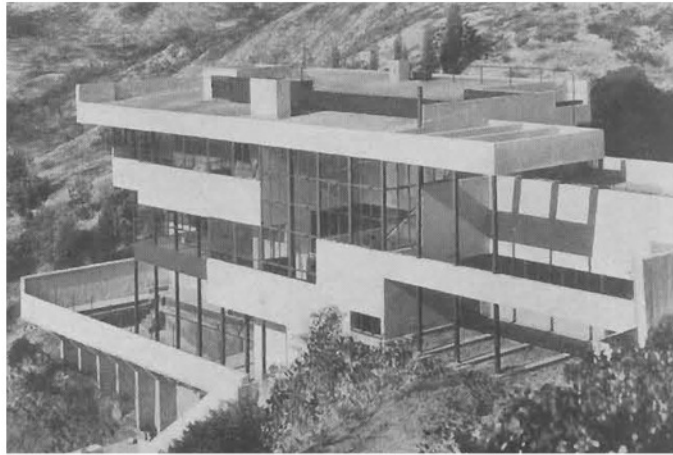
Foundations: are composed of twelve foot thick reinforced concrete. The foundation wall becomes exposed on the downhill side of the home. The Foundation acts as retaining walls for the steep hillside site.



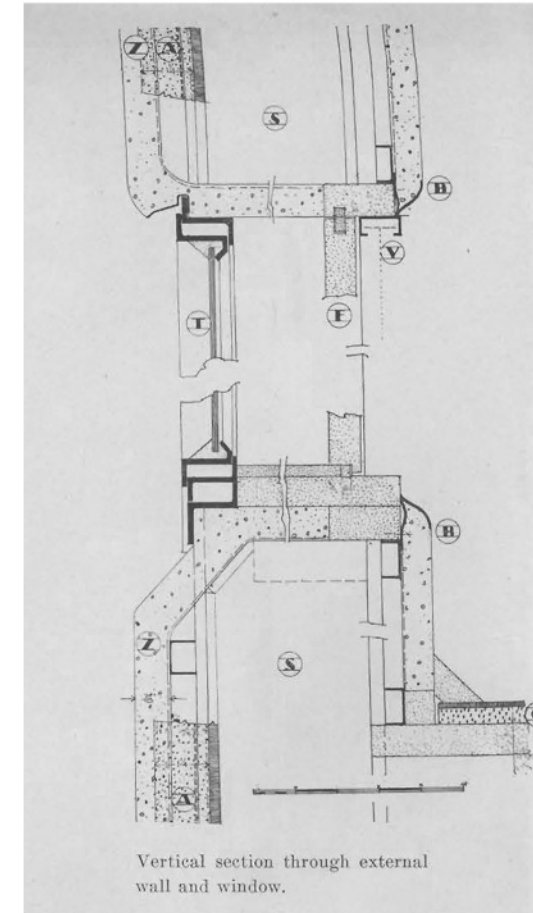
Structure: is organized on a 5'1.5" Module. 4" Steel Columns support welded Beams of 4" to 10" Depth, and carry open web trusses. The Steel Structure of the Health House is regarded as the first steel frame residential construction in America. In order to efficiently construct the residence on the steep lot, all of the framing was prefabricated at a local factory and assembled on site in forty hours.



Residential Precedent : "Lovell Health House" : Richard Neutra : 1959



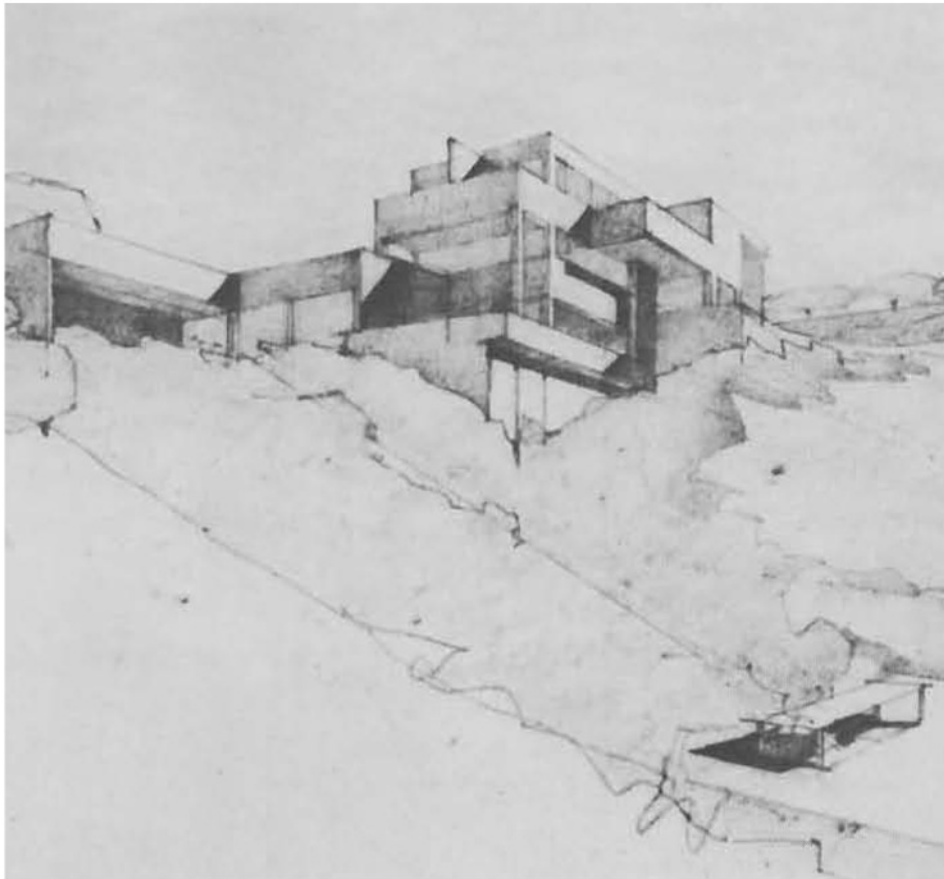
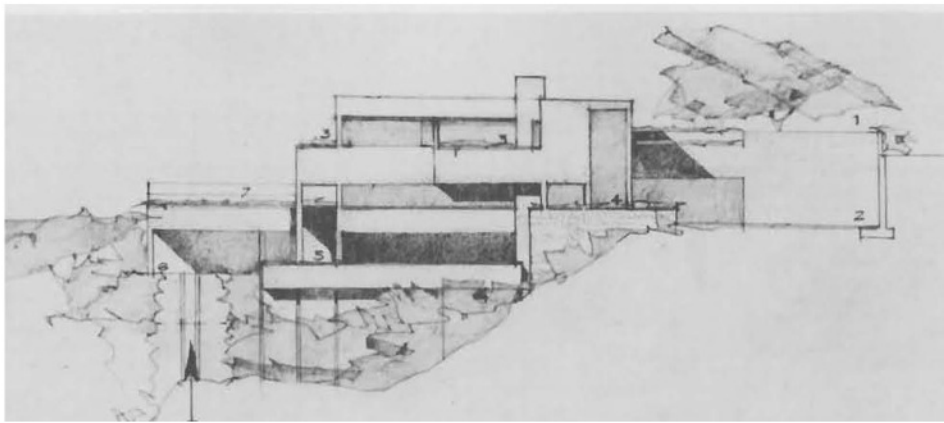
Exterior Cladding: Consists of 1 1/4" of Dense Sprayed Concrete on an expanded metal Mesh Backed With a Layer of Insulation acting as form. The Other primary cladding system consists of mass produced modular casement and fixed pane windows. Both systems intertwine seamlessly with the steel structural frame



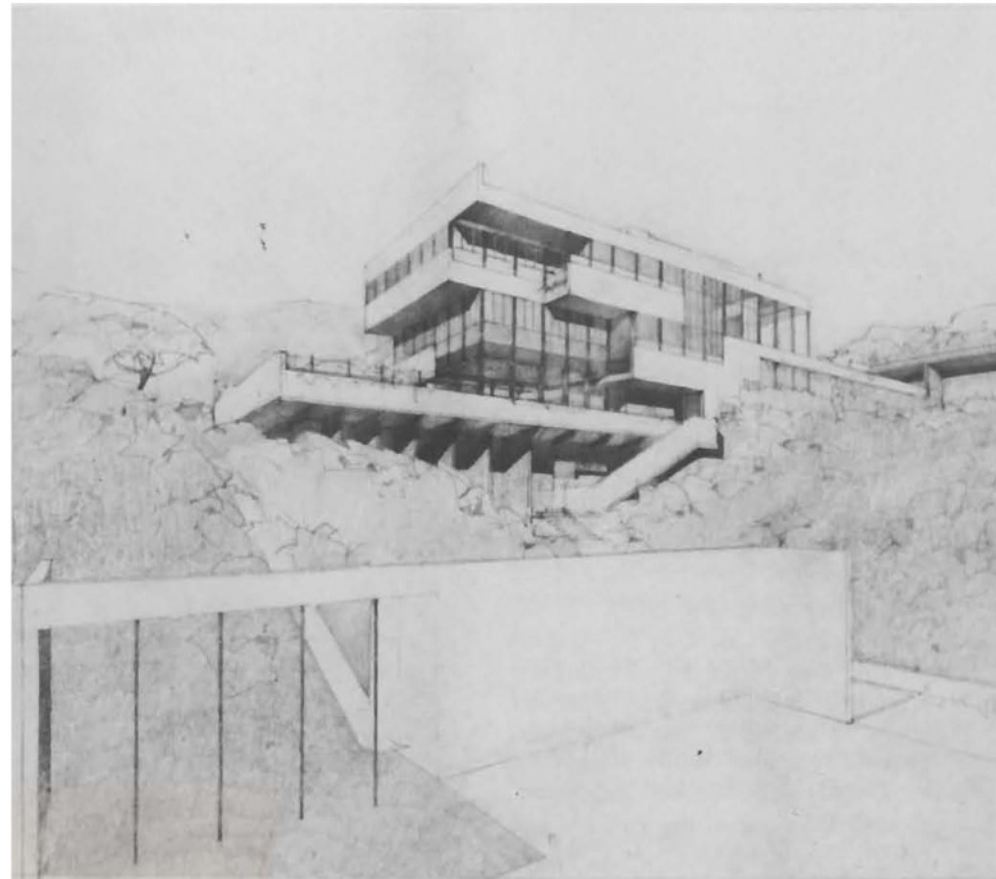
Mass Production and Economy: drove the design of the Lovell house as both icon and parti. Neutra's fully modernist viewpoint that mass production and technology could bring healthier living; is fully evident in the subtle pallet of simple mass produced materials organized in the Lovell Health House. This obsession with the factory line resonates with the iconographic headlamp of a Ford adorning the central staircase.



Residential Precedent : "Lovell Health House" : Richard Neutra : 1959



Early Design

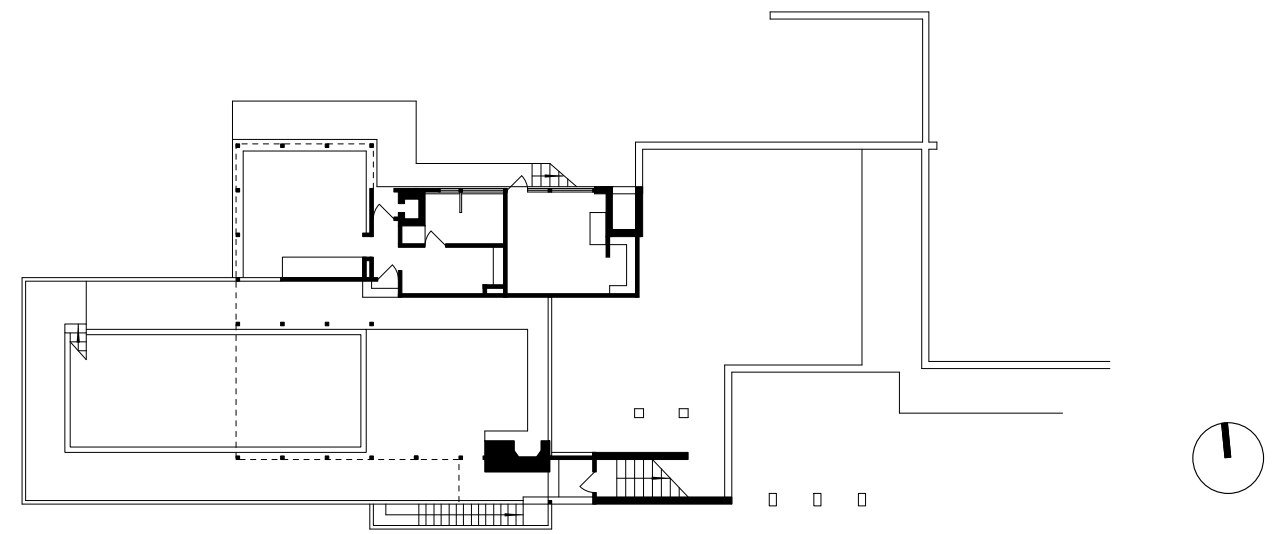
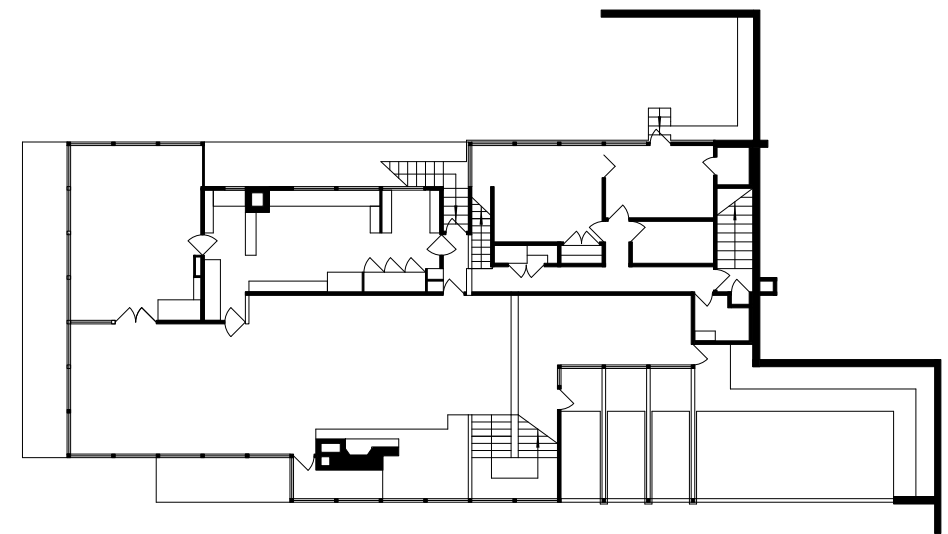
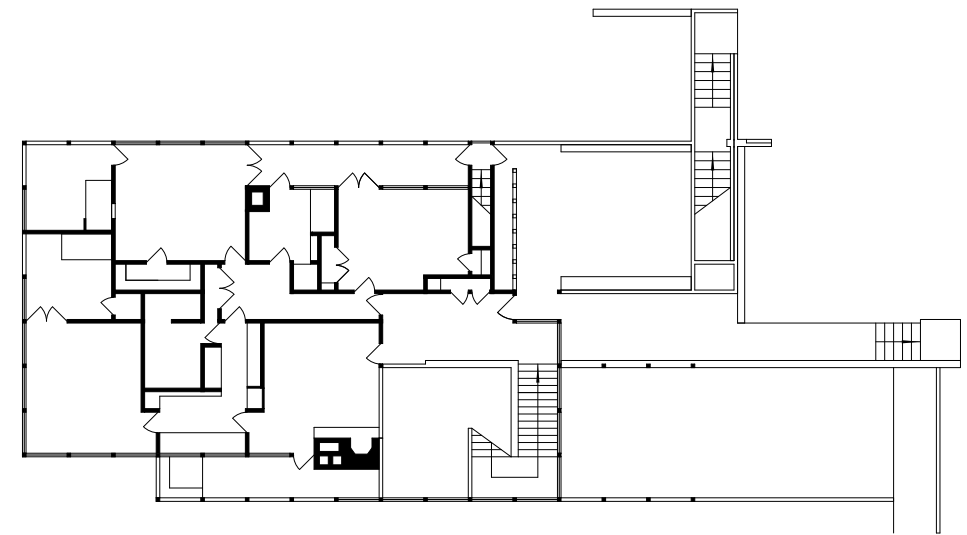
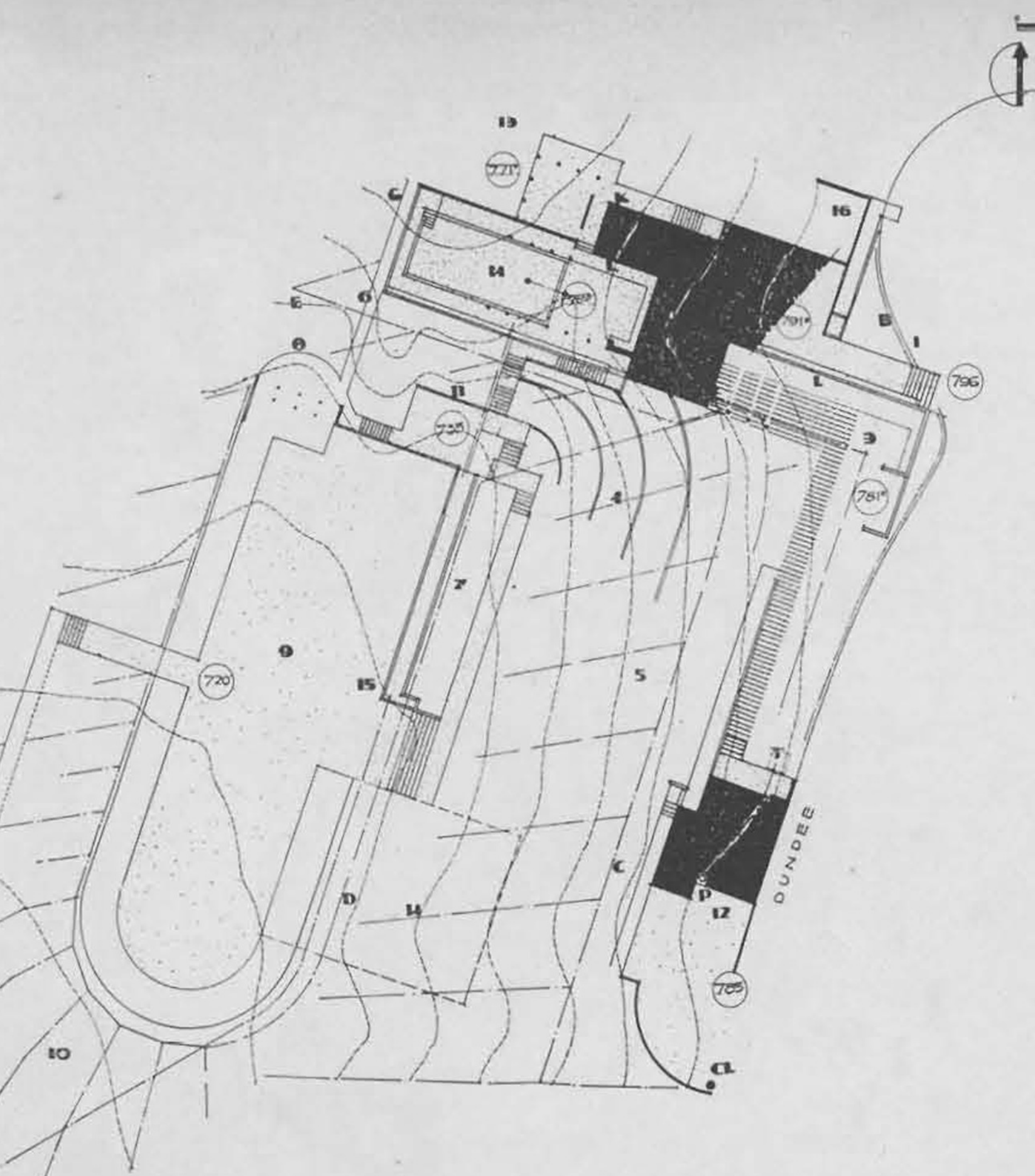


Final Design

Residential Precedent : “Lovell Health House” : Richard Neutra : 1959

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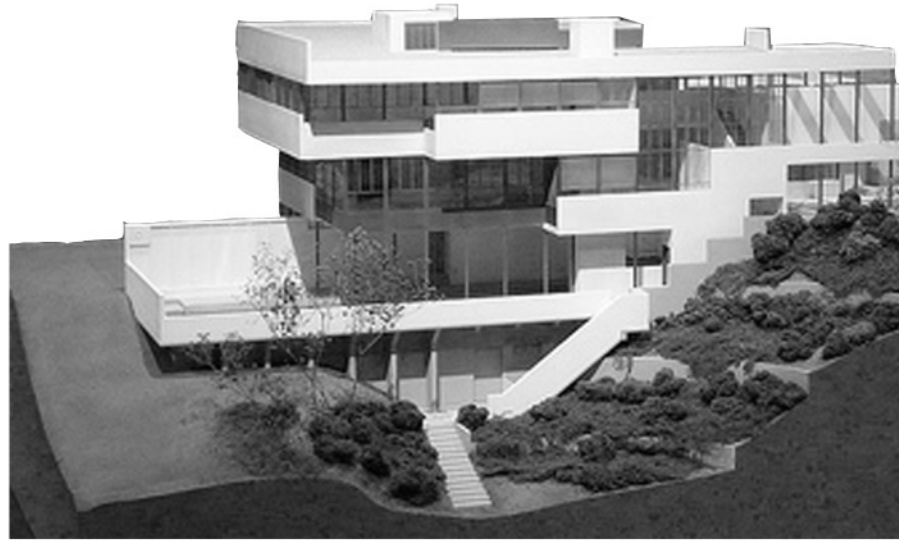
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Residential Precedent : "Lovell Health House" : Richard Neutra : 1959

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Residential Precedent : “Lovell Health House” : Richard Neutra : 1959

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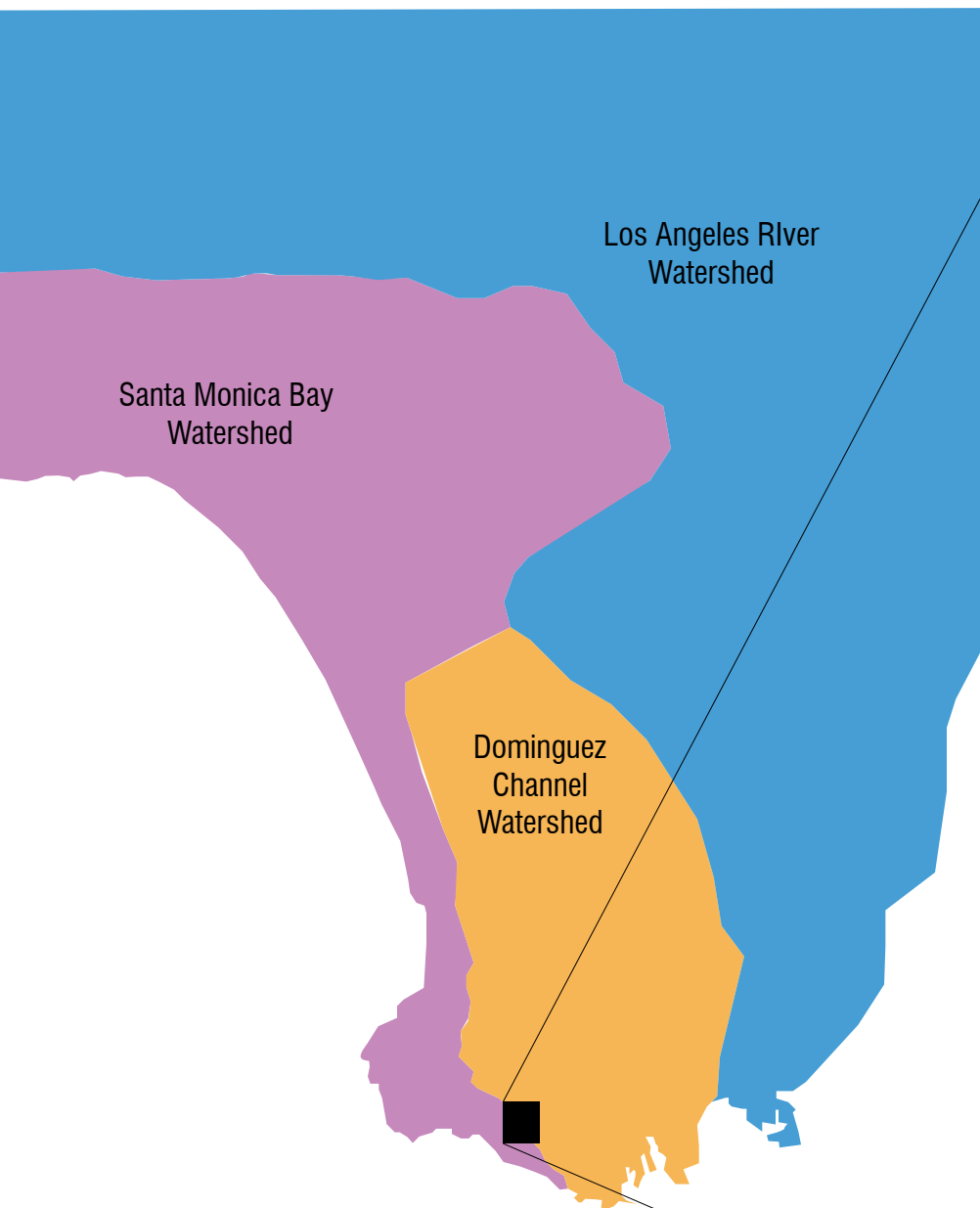
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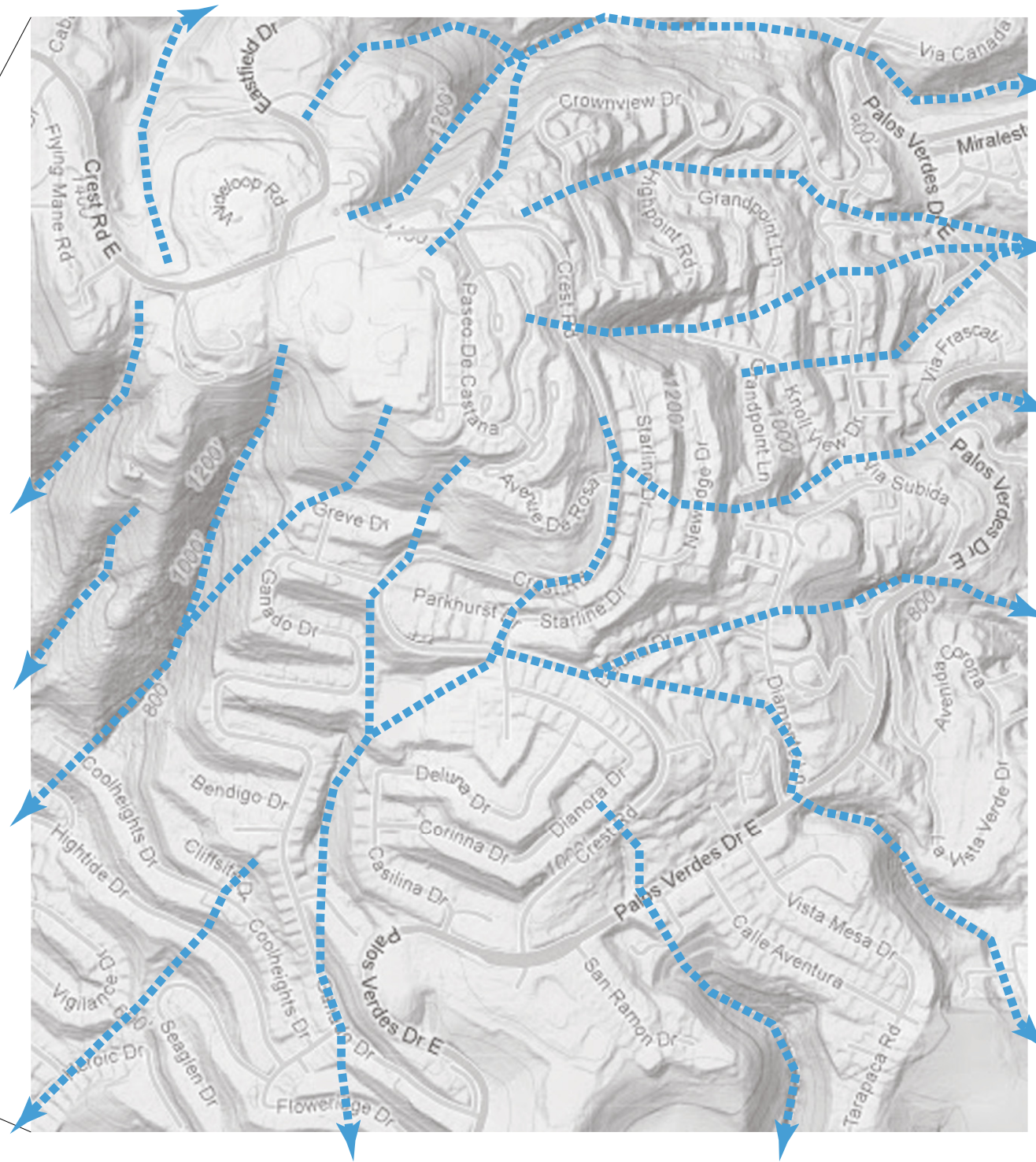
Residential Precedent : “Lovell Health House” : Richard Neutra : 1959

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Major Regional Watersheds



Local Natural Drainage Channels



Flash Flooding



Landslide



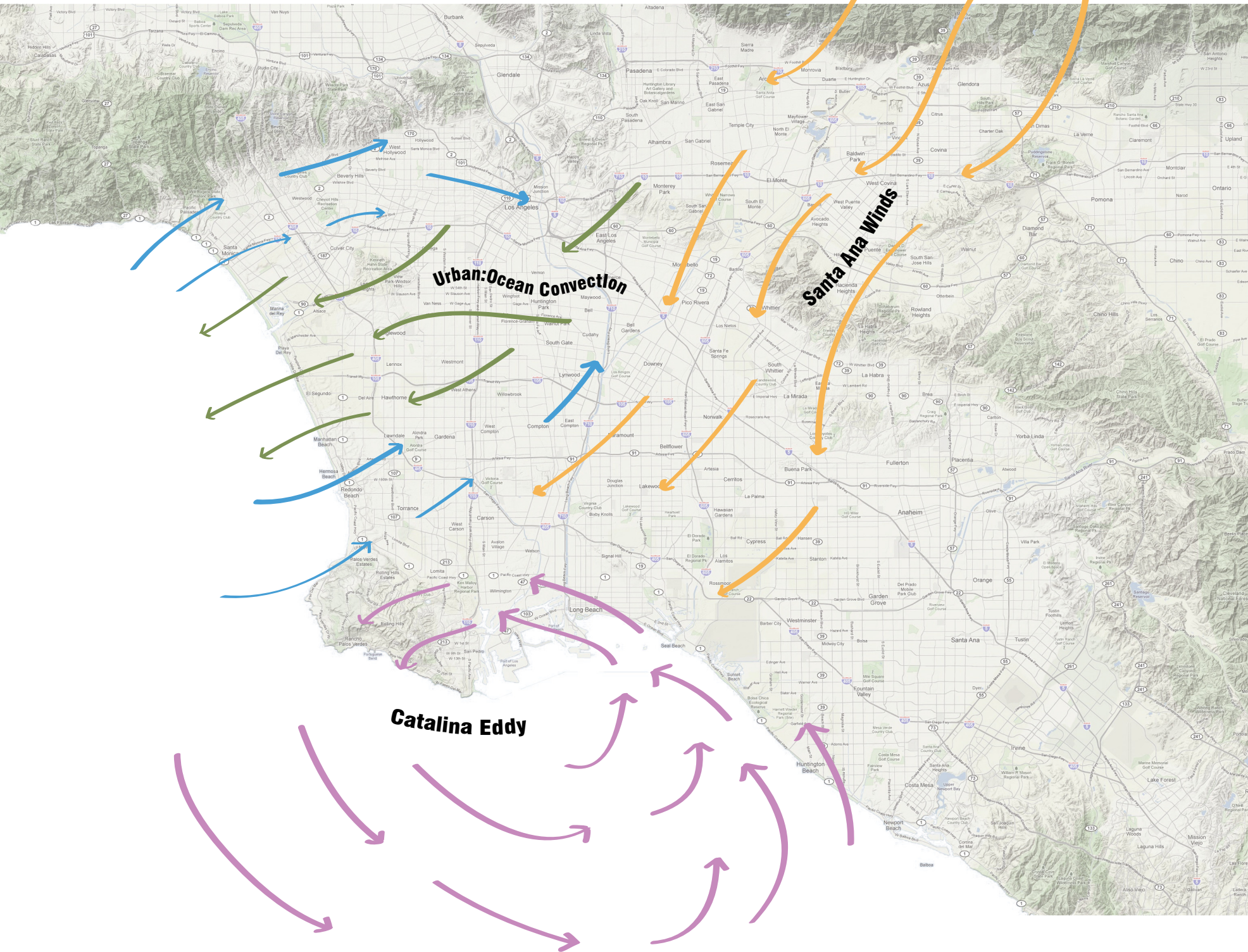
Contamination

Design Implications

Site Condition Systems

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Seasonal : Prevailing Windflow



Energy Catchment



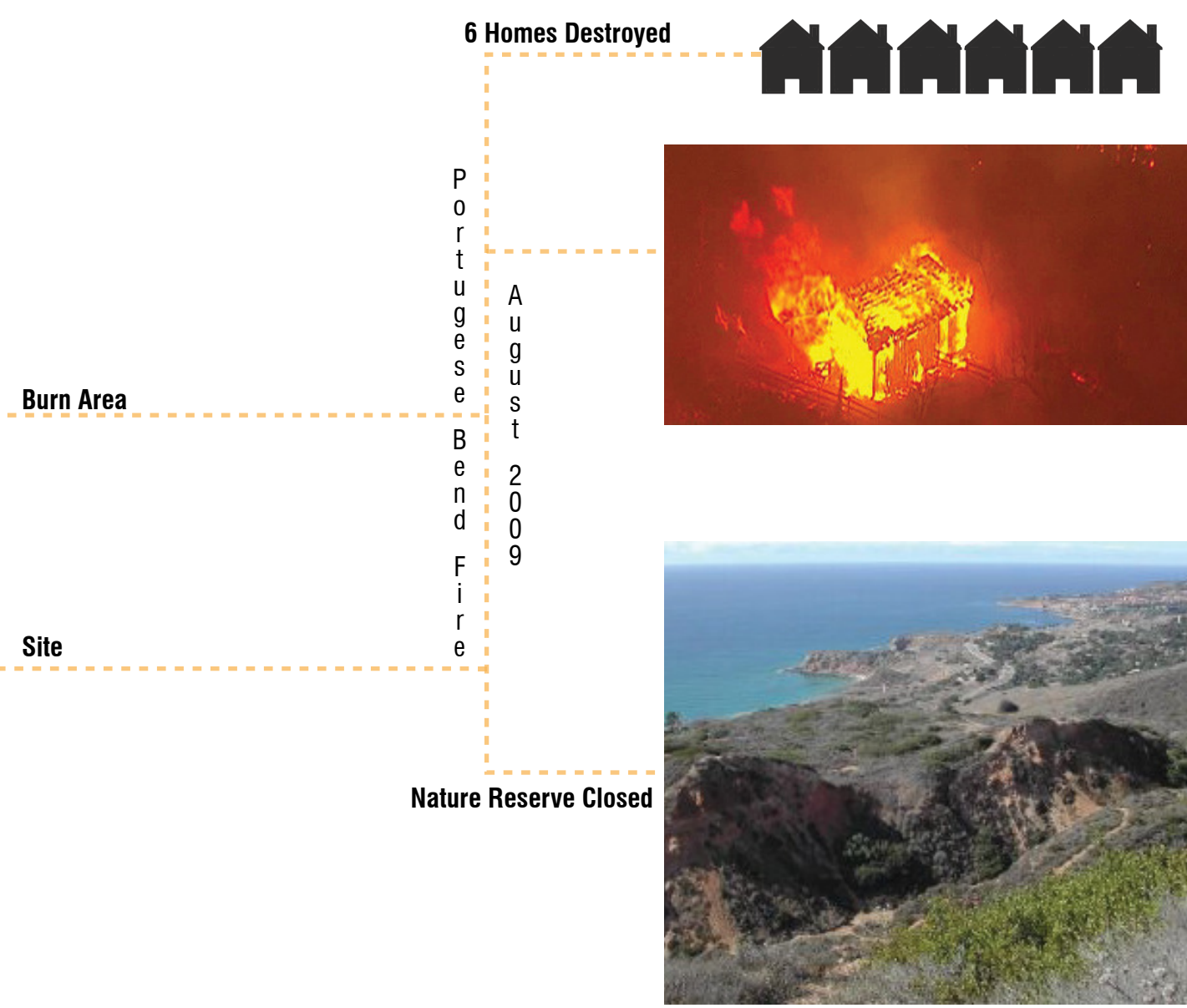
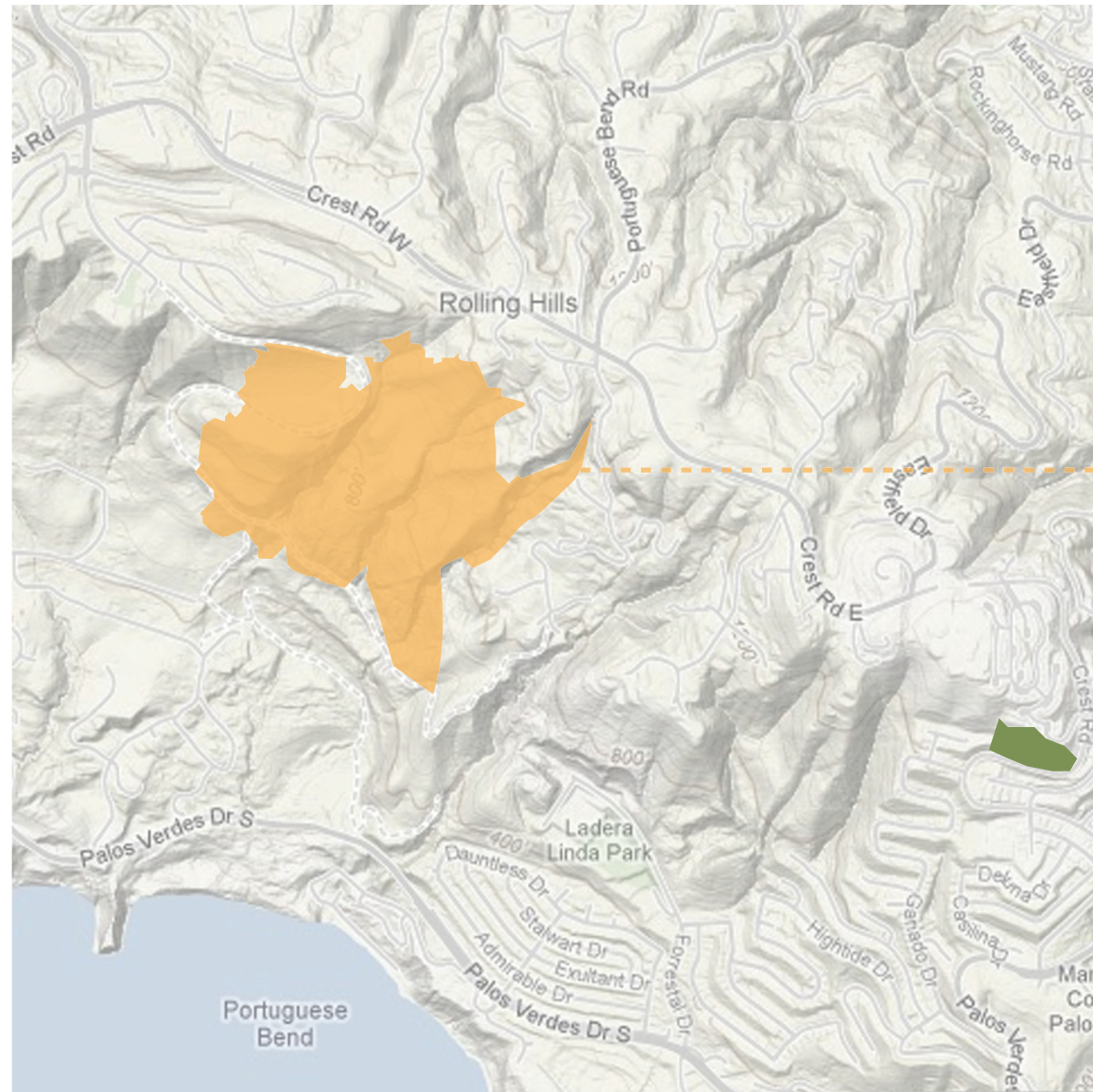
Wildfire Risk

Design Implications

Site Condition Systems

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Site Condition Systems

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Neighborhood Compatibility Guidelines



Maintain Existing View Planes



Maintain Established Setback and Scale



Respect Common Architectural Styles

