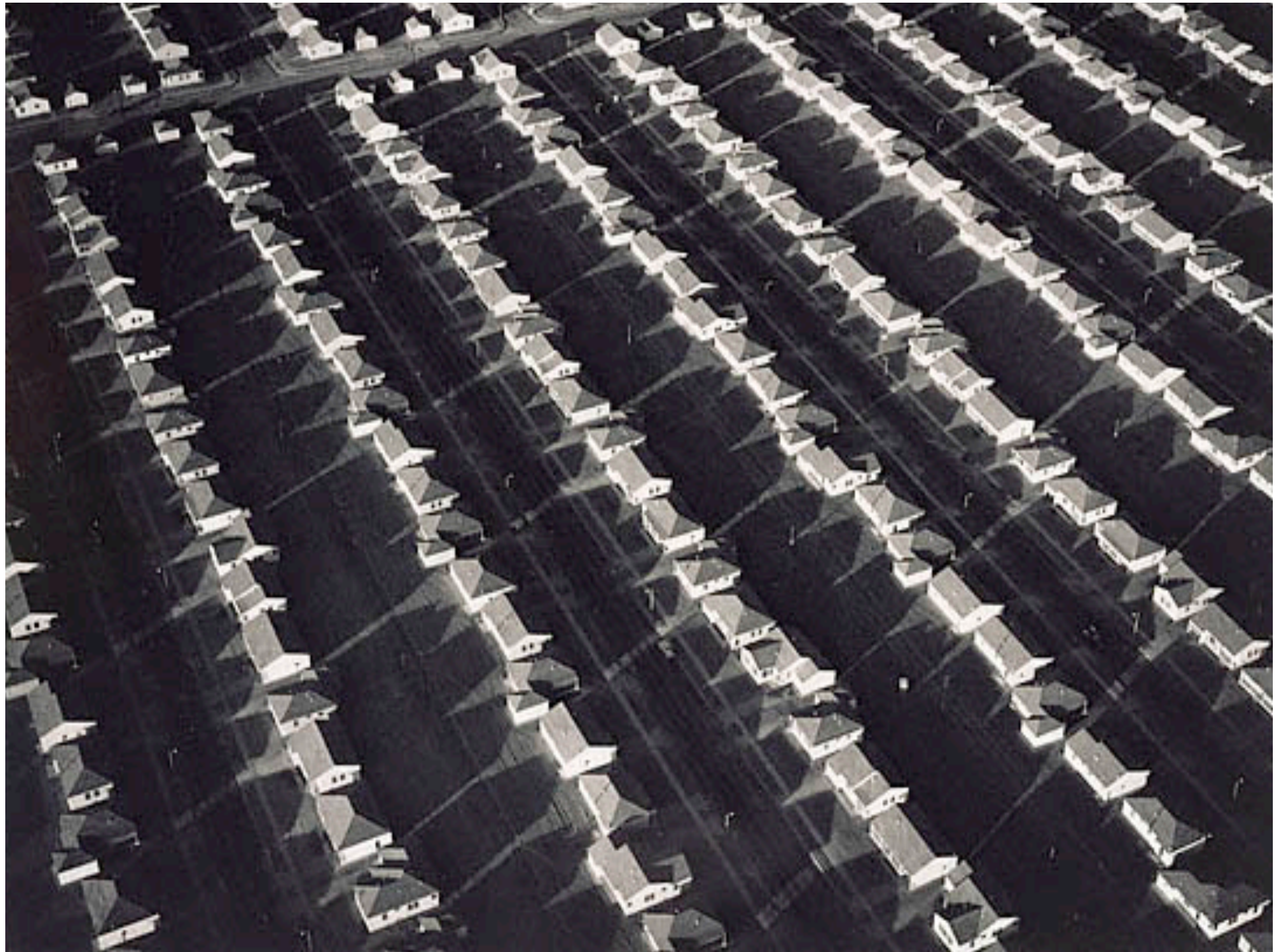
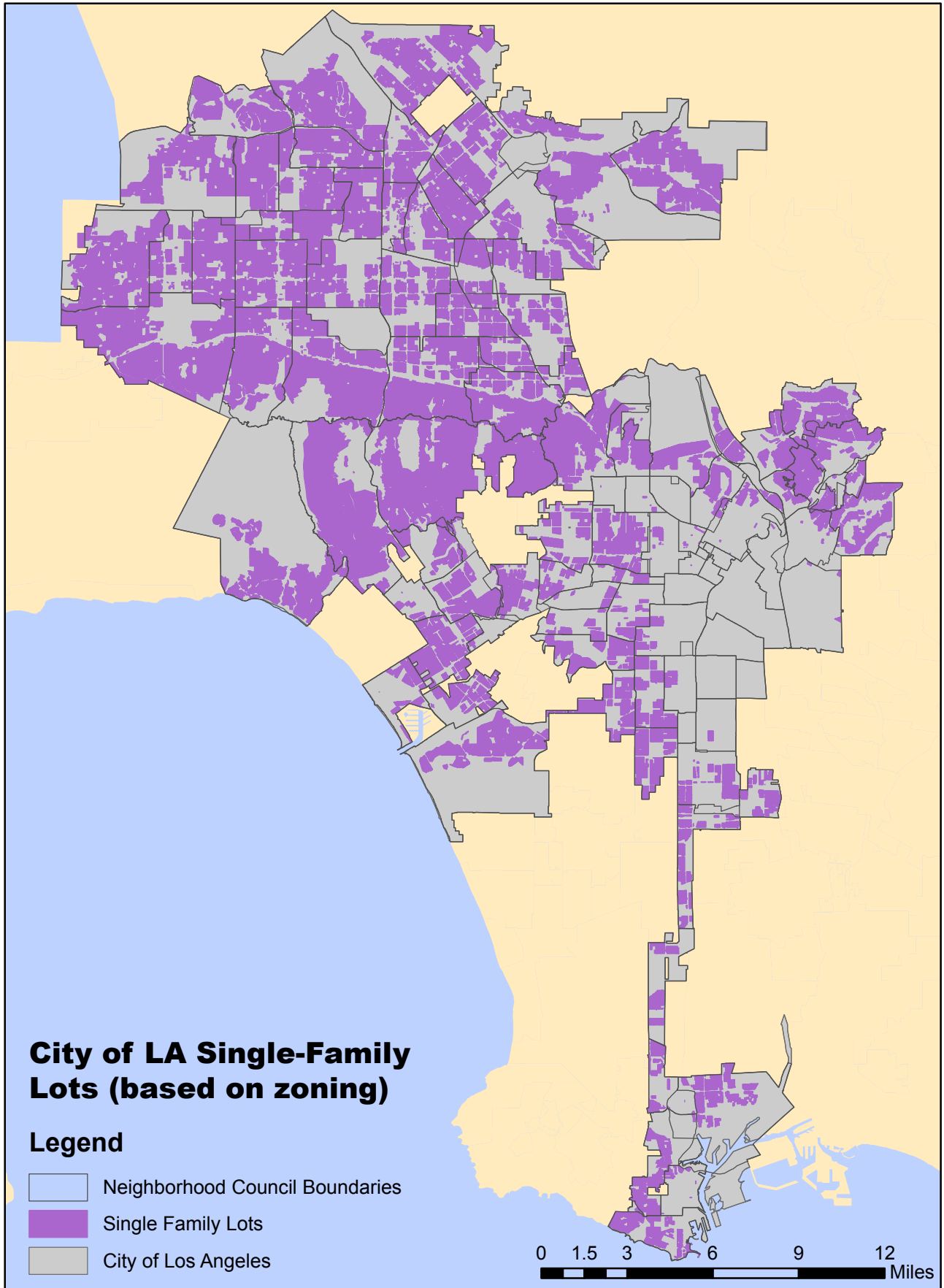




Backyard Homes

Rethinking California's Single Family Landscape









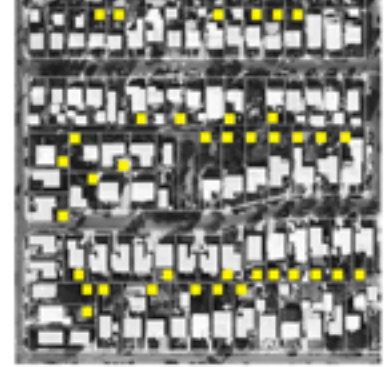
0 YEARS



10 YEARS

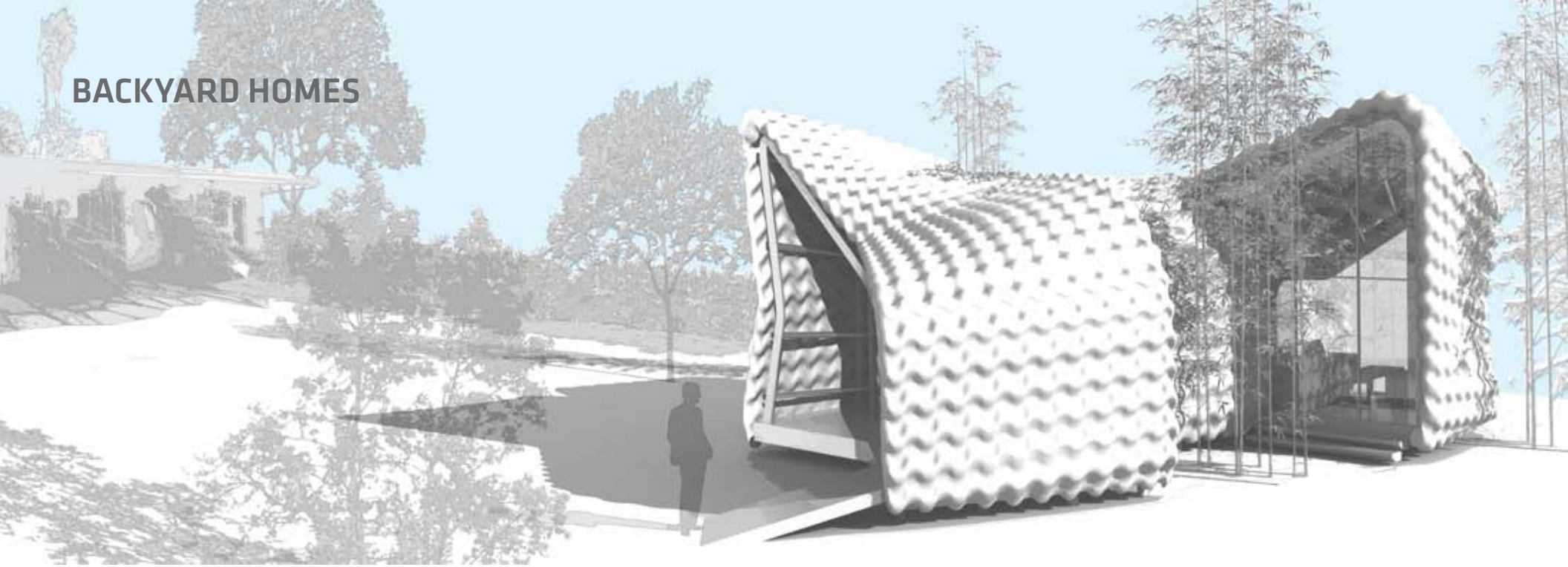


20 YEARS



40 YEARS

BACKYARD HOMES



- EXISTING FRONT HOUSE
- PREFABRICATED UNITS
- PREFABRICATED SOLAR CARPORT
- ALLEY



TYPICAL EXISTING LOT TYPES:



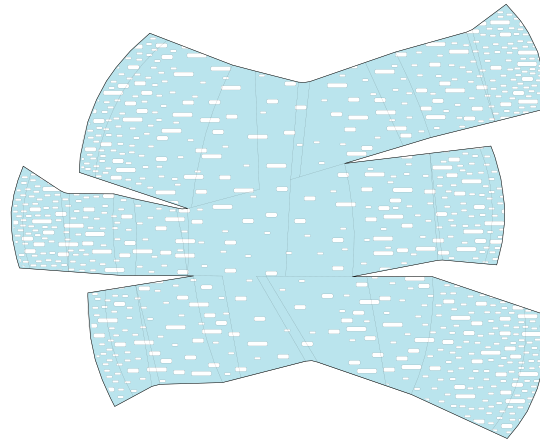
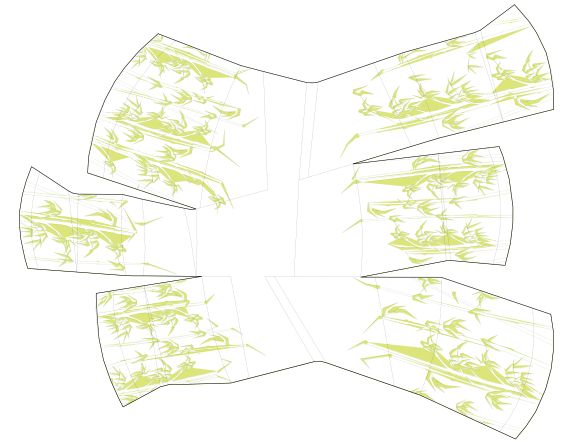
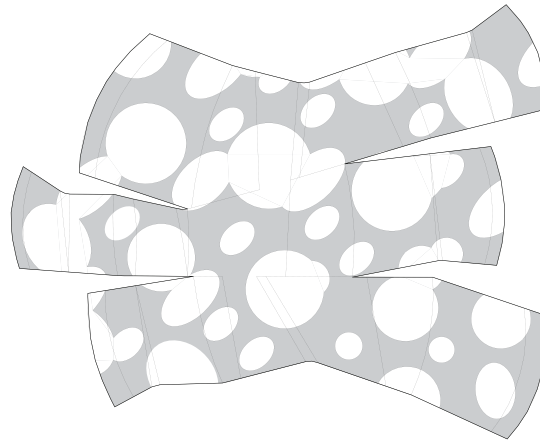
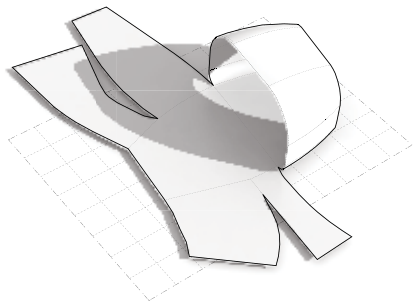
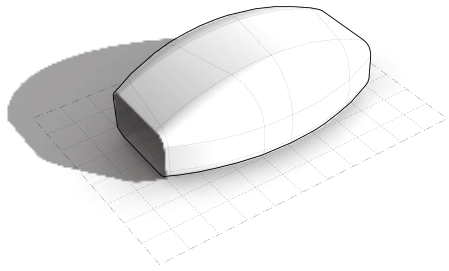
APPLICABLE ZONING CODE
sec. 12.08 R1-1-CDO



PV CARPORT
USE CALIFORNIA SOLAR INITIATIVE FUNDING
RECLAIM OPEN SPACE BY CONSOLIDATING PARKING
SUPPORT PROPERTY VALUES BY ADDING SMALL
RENTAL UNITS AT ALLEYS

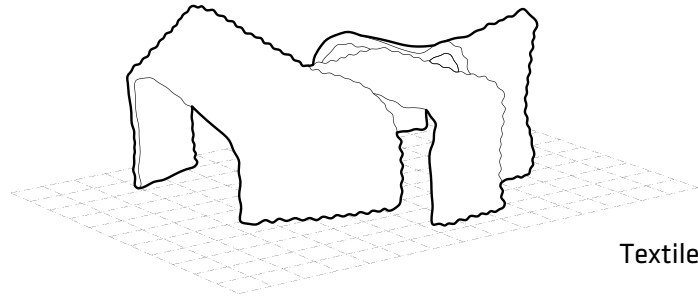
- EXISTING FRONT HOUSE
- PREFABRICATED UNITS
- PREFABRICATED SOLAR CARPORT
- ALLEY



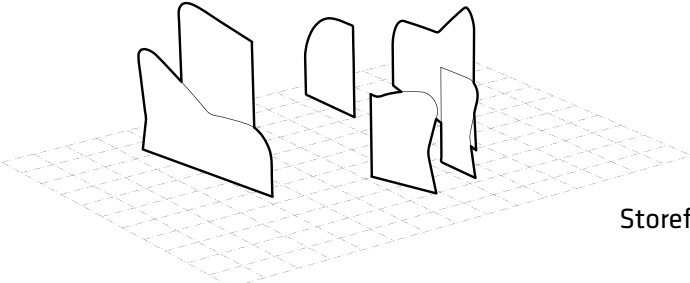


CNC Cut PTFE Skin

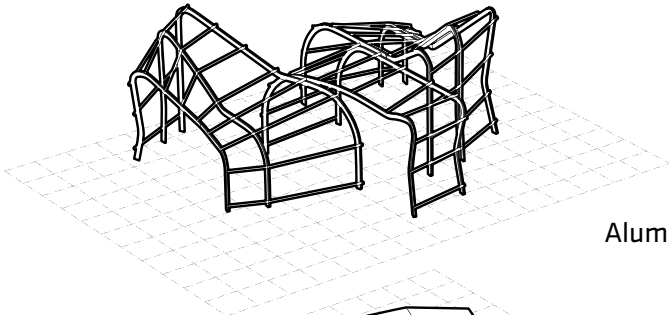
Skins may be digitally printed with graphics or reflective coatings to improve thermal performance.



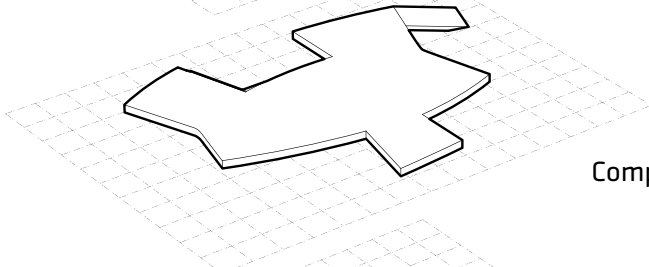
Textile Envelope



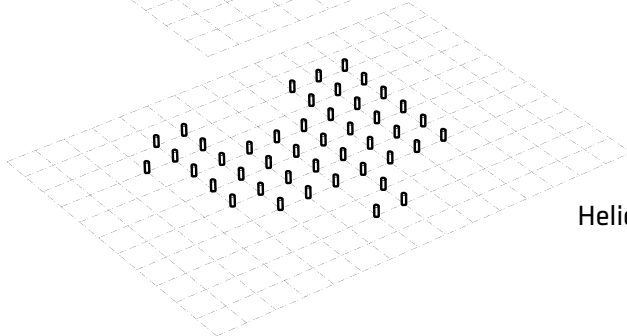
Storefront Infill



Aluminum Frame

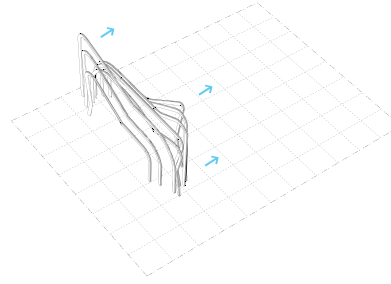


Composite Aluminum Deck

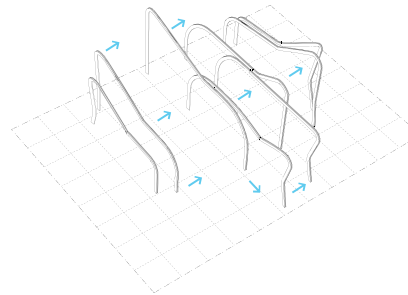


Helical Piles, 4' O.C.

System Axonometric



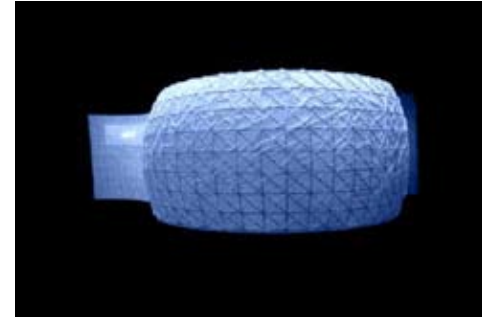
The frame is nested into a collapsed configuration for shipment



The frame expands once it reaches the backyard



Bellcomb Flooring System



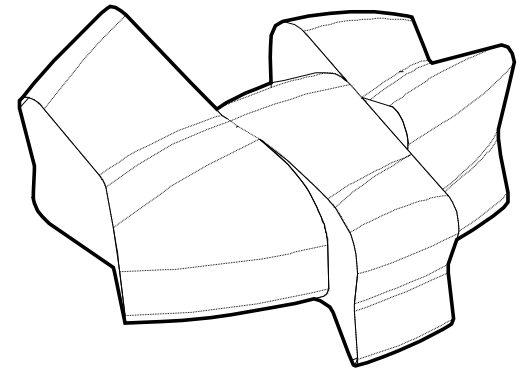
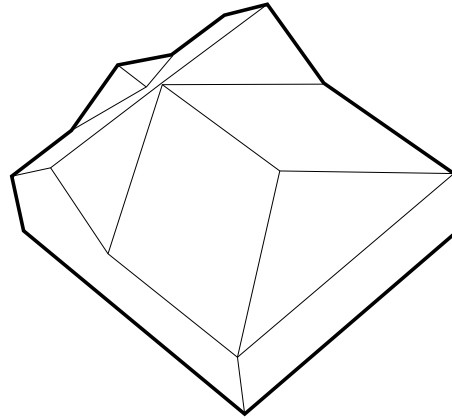
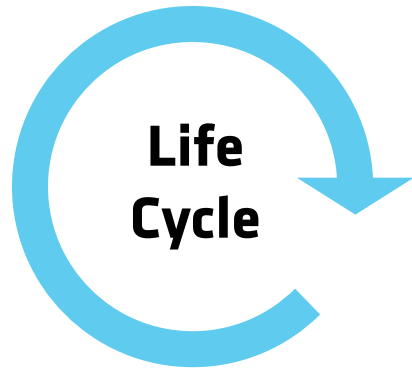
Negative Pressure Facade Prototype, Werner Sobek



Aluminum Frame CNC Bent to Shape, stretch formed and heat treated



Floor CNC Cut to Fit



Methods and Principles

Material-Intensive Construction
 Foundations Damage Site
 Waste Material Largely Unmanaged
 Materials Sourced Globally and Shipped Individually
 Material Assemblies Permanently Bonded Together
 Material Becomes Landfill

Methods and Principles

Minimize Weight / Material
 Eliminate Permanent Foundations
 Minimize Waste
 Source and Ship Intelligently
 Assemble to Disassemble
 Recyclable / Reusable Materials

Environmental Impact Category

Carcinogens (kg B(a)P)



Ozone (kg CFC11)



Heavy Metals (kg Pb)



Eutrophication (kg PO4)



Summer Smog (kg C2H4)



Acidification (kg SO2)



Winter Smog (kg SPM)



Energy Resources (MJ LHV)

