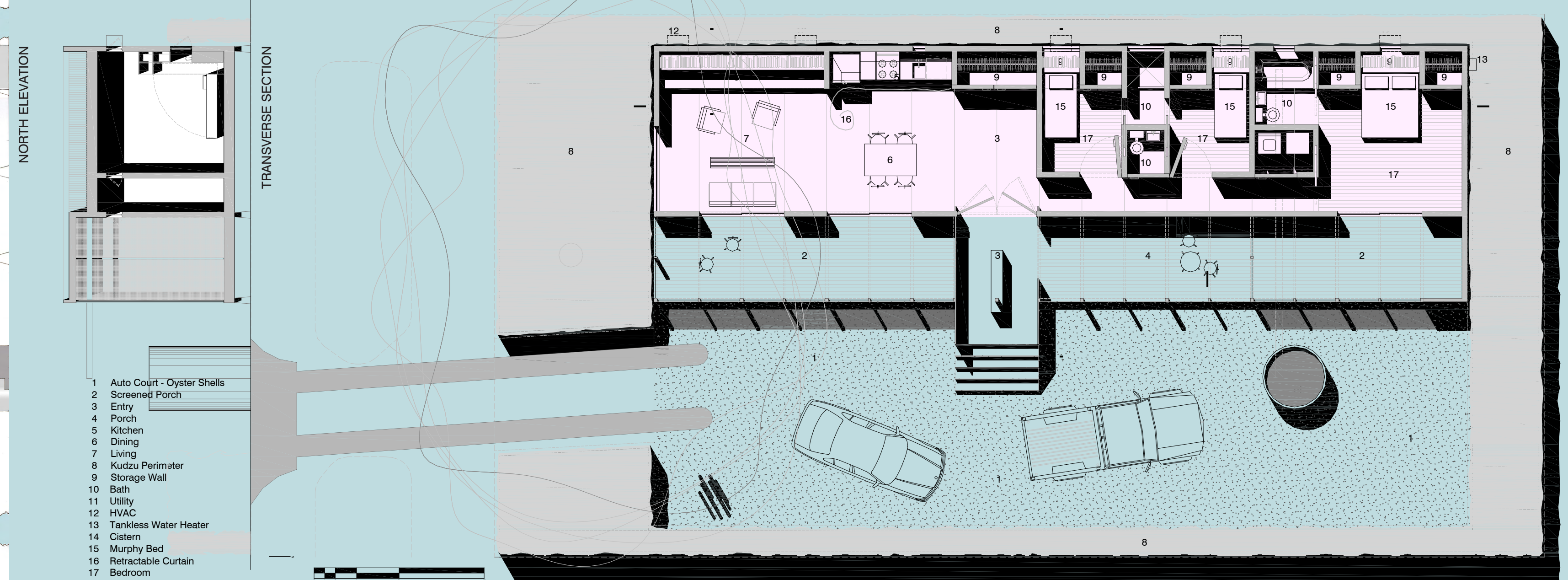




EAST ELEVATION



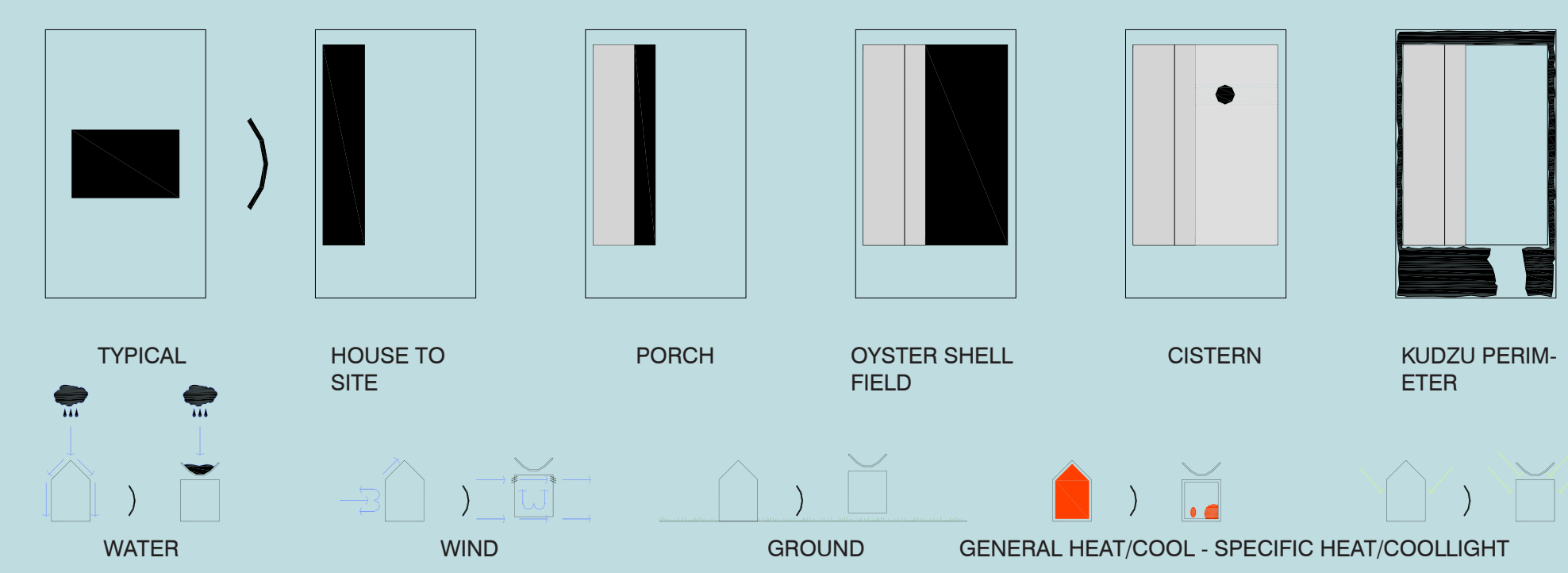
LONGITUDINAL SECTION



NORTH ELEVATION

TRANSVERSE SECTION

- 1 Auto Court - Oyster Shells
- 2 Screened Porch
- 3 Entry
- 4 Porch
- 5 Kitchen
- 6 Dining
- 7 Living
- 8 Kutzu Perimeter
- 9 Storage Wall
- 10 Bath
- 11 Utility
- 12 HVAC
- 13 Tentless Water Heater
- 14 Cistern
- 15 Murphy Bed
- 16 Retractable Curtain
- 17 Bedroom



SUSTAINABLE FEATURES

DURABLE VERTICAL CLAD TO REDUCE ENERGY CONSUMPTION AND MAINTENANCE AND REDUCE ENVIRONMENTAL IMPACT

DYNAMIC CHANGING USE AND RESPONSE TO THE NEEDS OF THE GROUP AND CHANGE PROVIDES FLEXIBILITY AND ADAPTABILITY FOR FUTURE USES AND OCCUPANTS

COLLECTIVE PROVISIONS WITH INDIVIDUAL WALLS AND CEILING VENTILATION AND COOLING PROVIDES FLEXIBILITY AND REDUCES THE NEED FOR ARTIFICIAL LIGHTING

LOCALIZED HIGH EFFICIENCY HVAC UNITS FOR EACH ROOM PROVIDE FLEXIBILITY AND ADAPTABILITY TO VARYING ROOM USES AND OCCUPANTS

NATURAL LIGHT PENETRATION TO REDUCE ENERGY USE AND PROVIDE VISUAL CONNECTION TO THE OUTDOOR ENVIRONMENT

IF EXTERIOR WALLS WITH HIGH PERFORMANCE AIR BARRIERS

PRIMARY BUILDING FACIES EASY TO MAINTAIN AND LOCALIZED MAINTENANCE AND REPAIR

ALL OPERABLE WINDOWS WITH SCREENS FOR VENTILATION AND INSECT CONTROL

MAINTENANCE FRIENDLY MATERIALS AND FINISHES TO REDUCE MAINTENANCE AND REPAIR COSTS

THE EAST FACIES AREA CONTAINS PORCH WITH SCREENS FOR VENTILATION AND INSECT CONTROL

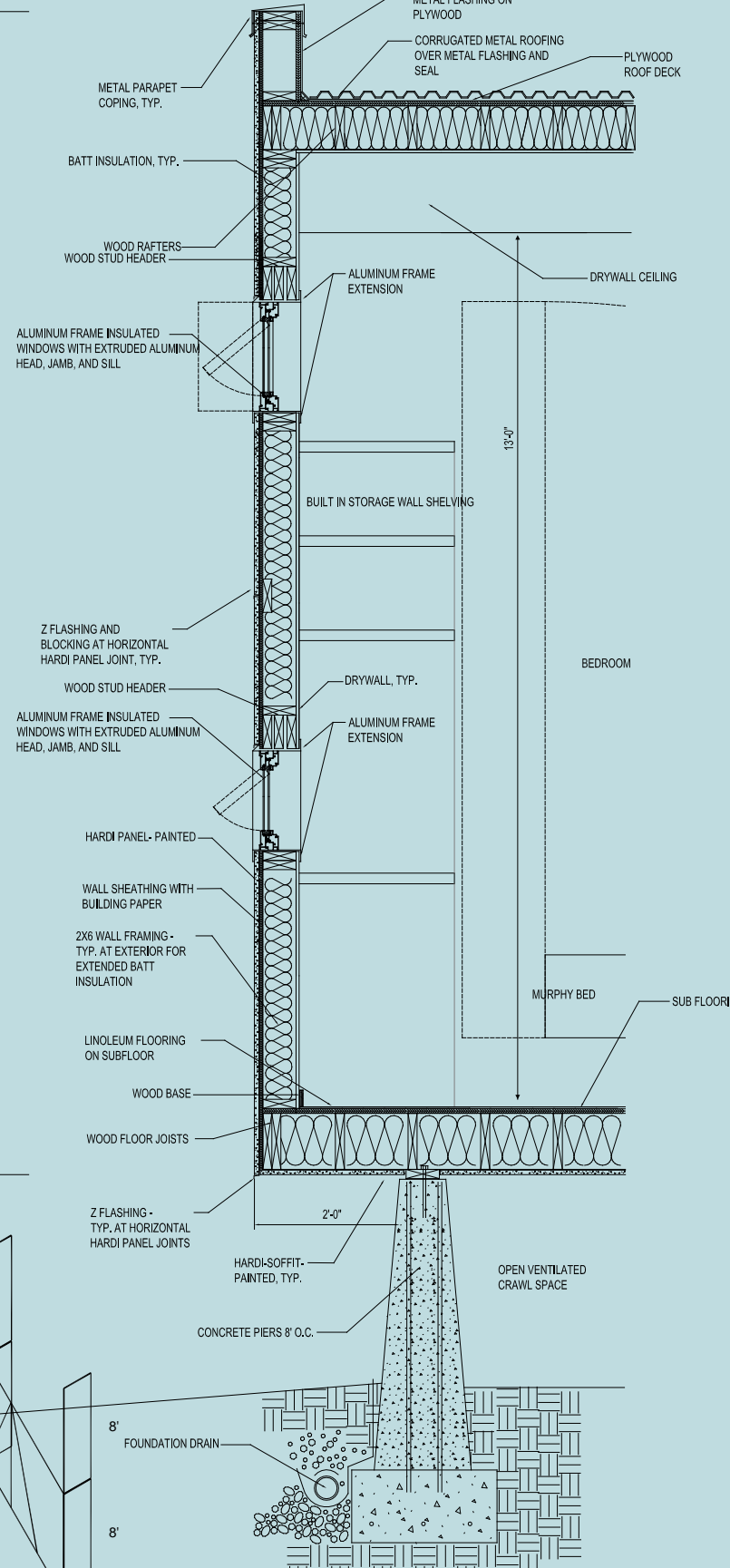
DURABLE MATERIALS, ESPECIALLY REFRIGERATED TO REDUCE ENERGY CONSUMPTION AND MAINTENANCE AND REDUCE ENVIRONMENTAL IMPACT

WATER SAVING TOILETS AND SHOWERHEADS TO REDUCE WATER CONSUMPTION

ELEVATED BUILDING WITH OPEN AIR DRIVE BRACE TO ALLOW NATURAL VENTILATION AND DRAINAGE BENEATH THE HOUSE

CONCRETE FLOORING WITH INSULATION TO REDUCE ENERGY CONSUMPTION AND MAINTENANCE AND REDUCE ENVIRONMENTAL IMPACT

CONCRETE FLOORING WITH INSULATION TO REDUCE ENERGY CONSUMPTION AND MAINTENANCE AND REDUCE ENVIRONMENTAL IMPACT



MATERIAL MODULE

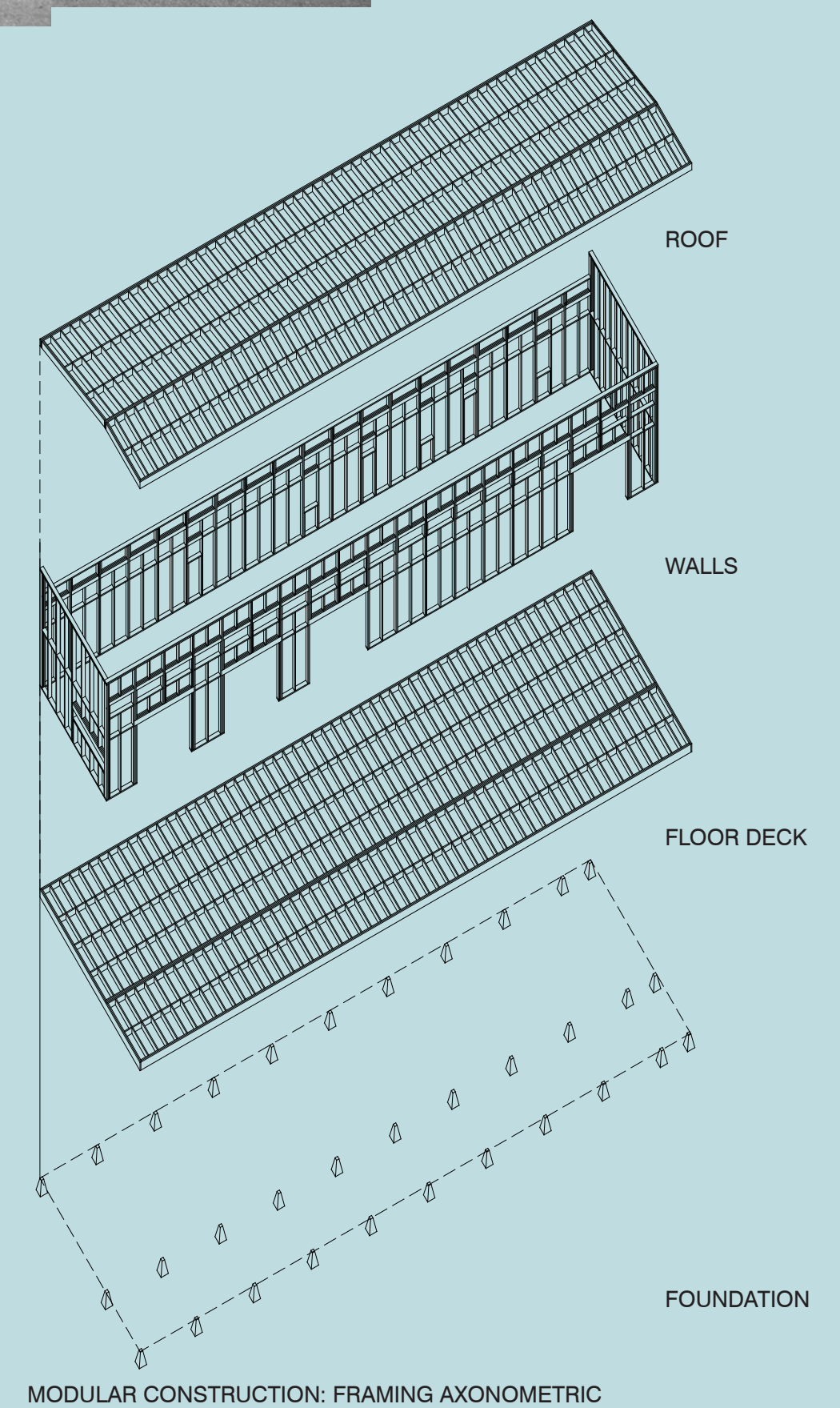
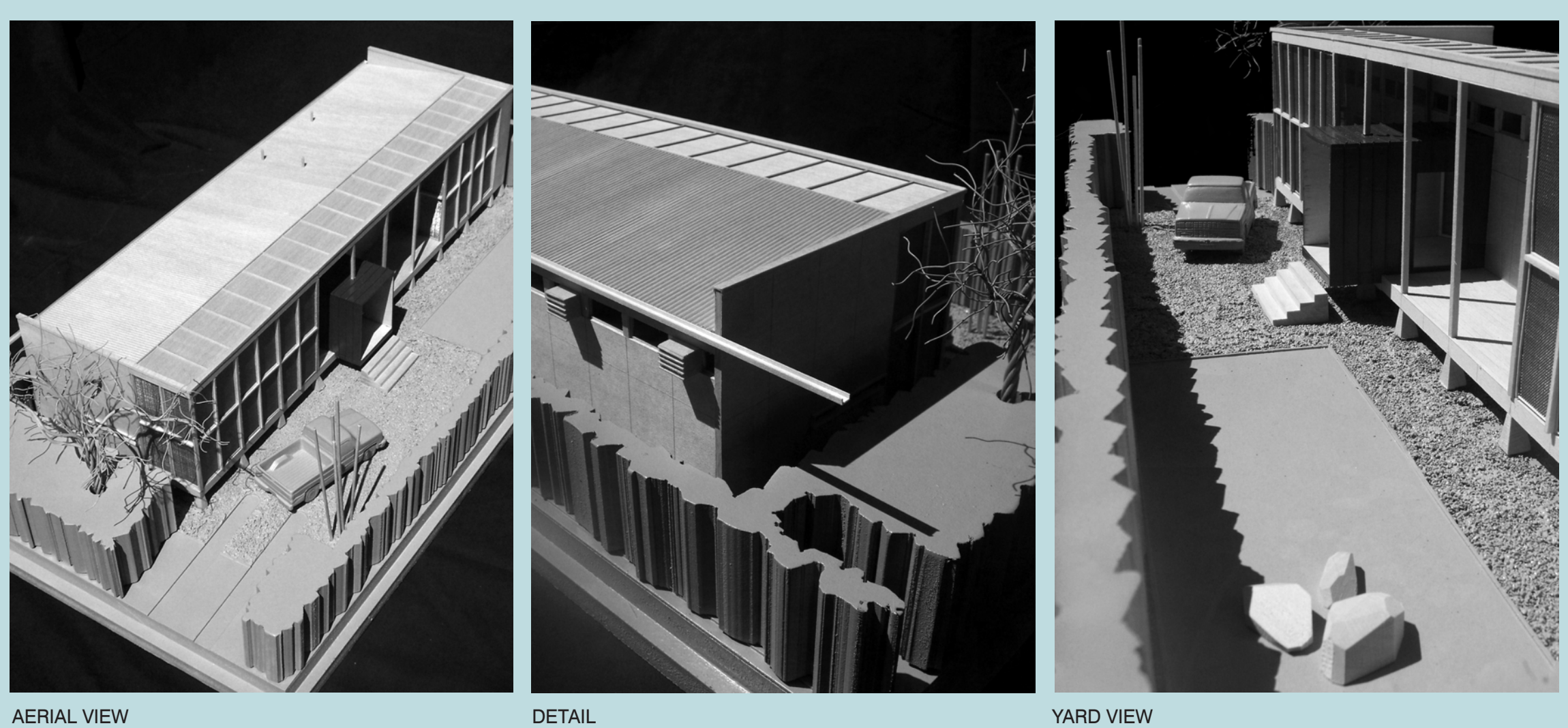
HOUSE 99 LOT 3, BLOCK 2

This winning entry was for an international design competition challenging architects to create an innovative design for a small house that was affordable, sustainable and energy efficient. Calling for a single-family house with up to 1,400 SF, including 3 bedrooms and 2 bathrooms, on a 50' x 100' site in Houston's historic Fifth Ward, the winning design had to be adaptable to a variety of sites and have a construction budget under \$80,000. The successful competitor had to use sustainable building practices and materials with a special concern for affordability, longevity, energy savings benefits, and appropriateness for the hot, humid Houston climate.

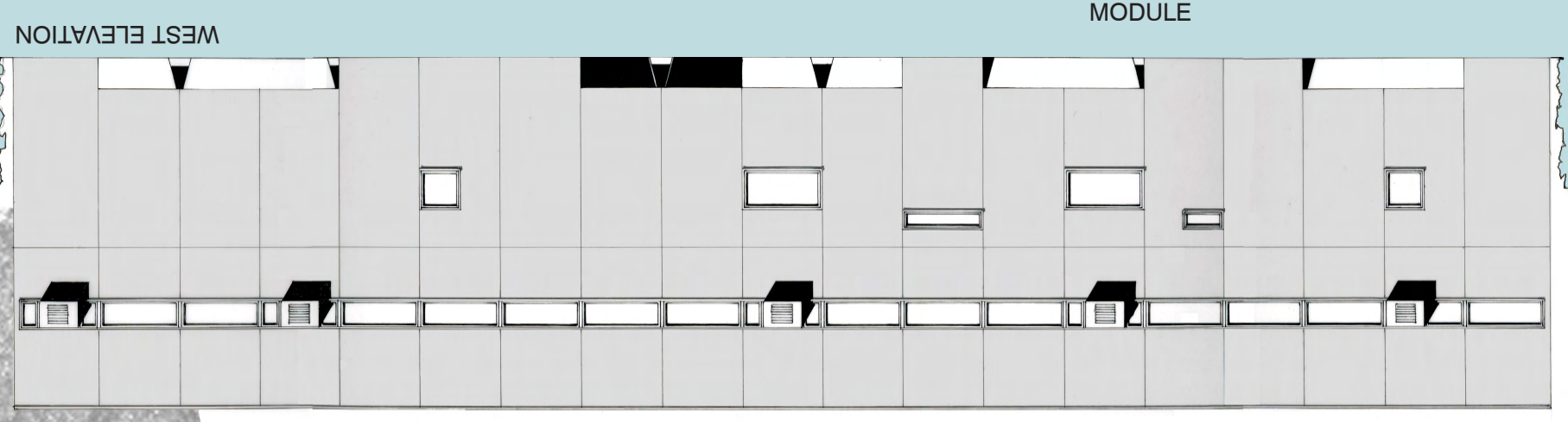
Designing with as many energy-efficient standards as possible, this submission used the fewest resources (labor and materials) to achieve the highest design impact. The house balances innovation and simple historical principles deriving its form from a hybrid of regional typologies of the Shotgun House and the Charleston Single House.

A large porch runs along the east facade allowing for the break down between interior and exterior living. The form of the house maximizes cross-ventilation and utilizes high ceilings to address the heat. The building is elevated off the ground to allow natural ventilation and drainage beneath the house. Continuous clerestory windows allow ample light (and ventilation) to reduce the need for artificial lighting. Each room can be individually closed off to allow for the conditioning of that room controlled by a wall contained HVAC unit. The bedrooms all have Murphy Beds that allow for multiple use configurations. The materials of the house are all standard, durable and affordable employing typical balloon framing clad with cementitious panels. The floors are linoleum in the public spaces and wood in the bedrooms while the cabinetry and built-ins of the service wall are constructed of clear sealed birch plywood. The roof is a typical tin shed roof.

Through a series of efficient but celebratory moves House 99 maximizes the minimum.



MODULAR CONSTRUCTION: FRAMING AXONOMETRIC



WEST ELEVATION

