MAKE IT RIGHT

REDEVELOPMENT FOR THE LOWER 9TH WARD

NEW ORLEANS, LOUISIANA

billesarchitecture

**ENVIRONMENTAL VERNACULAR**

The form of the building is a response to the New Orleans area climate while respecting local culture and architectural traditions. The design utilizes natural ventilation, controlled daylighting, high ceilings with fans, and shading devices that provide thermal relief in the same manner as traditional New Orleans architecture. These building concepts work together to provide a comfortable environment while reducing reliance on mechanical air conditioning and energy consumption.

The floor plan is based on a modified 'shotgun' with a linear transition of spaces from outdoor to indoor and public to private while being adapted to modern living with an attic. A generous front stoop and porch is a key element in the re-establishment of the vitality of the community.

**SUSTAINABLE DESIGN**

The building seeks to be a model for sustainable living by incorporating solar panels, planting and air conditioning systems that reduce water and power usage, a system that collects rainwater from the roof for non-drinking water use, and permeable paving to reduce storm water runoff. Additionally, building products were chosen that are locally fabricated or contain recycled content, and the building concepts work together to provide a comfortable environment while reducing reliance on mechanical air conditioning and energy consumption.

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**RENOVATION SMART**

The design promotes long-lasting value to the homeowner by incorporating materials and systems that are durable, low maintenance, and contribute to housing affordability. The design also promotes long-lasting value to the homeowner by incorporating materials and systems that are durable, low maintenance, and contribute to housing affordability. The design also promotes long-lasting value to the homeowner by incorporating materials and systems that are durable, low maintenance, and contribute to housing affordability.

**NEW ORLEANS AREA CLIMATE**

Climate considerations are also a key element in the design process. The New Orleans area climate is characterized by hot, humid summers and mild, wet winters. The building design takes into account these climate conditions to provide a comfortable living environment while reducing energy consumption.

**ELEVATION PANELS**

The elevation panels are designed to adapt to the New Orleans area climate while respecting local culture and architectural traditions. The design utilizes natural ventilation, controlled daylighting, high ceilings with fans, and shading devices that provide thermal relief in the same manner as traditional New Orleans architecture. These building concepts work together to provide a comfortable environment while reducing reliance on mechanical air conditioning and energy consumption.

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HIGHLY ENERGY EFFICIENT MECHANICAL SYSTEM COUPLED WITH NATURAL VENTILATION STRATEGIES

WELL INSULATED AND SEALED ENVELOPE OPTIMIZES MECHANICAL SYSTEM USAGE FOR ENERGY CONSERVATION

RAINWATER CISTERN STORES WATER COLLECTED FROM ROOF FOR NON-POTABLE USES

LOW WATER USE PLUMBING FIXTURES

ENERGY STAR RATED APPLIANCES

DURABLE MATERIALS WITHSTAND CLIMATIC CONDITIONS FOR LOW-MAINTENANCE, LONG-LASTING VALUE

MATERIALS CHOSEN THAT ARE NOT DETRIMENTAL TO HEALTH; WASTE REDUCED THROUGH EFFICIENT USE OF LOCALLY SOURCED MATERIALS WITH RECYCLED CONTENT

SOLAR POWERED HOT WATER HEATER (POTABLE WATER)

SOUTH-FACING PHOTO VOLTAIC PANELS ON ROOF FOR NET METERING

RECYCLING AND COMPOSTING CENTER

NATURAL DAYLIGHTING REDUCES RELIANCE ON ELECTRIC LIGHTING

DEEP OVERHANGS REDUCE HEAT GAIN AND PROVIDE SHELTERED OUTDOOR SPACES

CLIMATICALLY APPROPRIATE LANDSCAPING REQUIRES LESS MAINTENANCE AND CONTRIBUTES TO PASSIVE CLIMATE CONTROL STRATEGIES

PERMEABLE PAVING SURFACES FOR STORMWATER MANAGEMENT

NEW ORLEANS, LOUISIANA

SUSTAINABLE ELEMENTS

MODIFIED SHOTGUN: linear progression of spaces aimed to achieve visual and physical connections

ATTIC: storage and emergency refuge

STRUCTURE: designed to withstand 130 mph wind zone

FLOOD PREVENTION: house raised 5 feet

WATER/VAPOR BARRIER ON UNDERSIDES OF WALLS FOR WATERPROOF PORTIONS

SUMMER

WINTER

NORTH ELEVATION WEST ELEVATION

SOUTH ELEVATION