



National Disaster Resilience (NDR) Substantial Amendment No. 2

April 11, 2023

City of New Orleans

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Office of Housing Policy &
Community Development

Agenda

Please hold questions to the end. For those watching via Facebook Live, please text questions to 504-941-2414

1. Program Background
2. Substantial Amendment Regulations
3. New/Expanded Projects
 - a. *Seth C. Knudsen, NORA, Chief of Strategy, Programs, and Projects*
4. Public Comment Period
5. Q & A

National Disaster Resilience Competition Grant

The City of New Orleans was awarded \$141,260,569 through the National Disaster Resilience Competition (NDRC) to establish the first-ever Resilience District with several integrated initiatives that will turn Gentilly into a national model for retrofitting post-war suburban neighborhoods into resilient, safe, and equitable communities of opportunity.

The Gentilly area of focus presents several unique conditions that demonstrate a concentration of the unmet resilience needs and is a priority for building resilience, especially for low- and moderate-income (LMI) households.



Substantial Amendment

- What triggers a Substantial Amendment?
 - Any change to the funded portions of the application that HUD determines, based generally on the guidelines of the Notice Of Funding Availability (NOFA) (as adjusted for HUD's scaling and scoping of the award), would present a significant change to the grantee's capacity to carry out the grant (including loss of a partner without addressing lost capacity through replacement or contingency plan identified in the application);
 - Any change to the funded portions of the application that HUD determines, based generally on the guidelines of the NOFA (as adjusted for HUD's scaling and scoping of the award), would undermine the grantee's soundness of approach (including the benefit cost analysis);
 - Any change to the Most Impacted and Distressed target area(s) (a revised area must meet Most Impacted and Distressed threshold requirements in the NOFA, including Appendix G to the NOFA);
 - Any change in program benefit, beneficiaries, or eligibility criteria, and the allocation or reallocation of more than 10 percent of the grant award;
 - Any change to the leverage that was pledged and approved in the grantee's grant agreement;
 - The addition or deletion of an eligible activity.

Proposed Changes

- **Removed Projects**
 - Microgrids Project
 - Milneburg Project
- **Added/Revised Projects**
 - Resilient Homes
 - Expansion of the Community Adaptation Program

Proposed Revised Budget

Program Name	Current Action Plan Allocation	Proposed Amendment		Resulting Allocation	Leverage Funds	Total Project Allocation	Estimated City Liability
		From	To				
Blue Green Corridors	\$ 42,811,380.00			\$ 48,205,613.88	\$ 49,500,000.00	\$ 97,705,613.88	
Dillard Wetland	\$ 6,793,561.00			\$ 7,649,549.69	\$ 6,500,000.00	\$ 14,149,549.69	
Milneburg Neighborhood	\$ 9,048,800.00	(9,048,800.00)		\$ 272,355.81		\$ 0.00	\$ 281,129.74
Mirabeau Water Garden	\$ 12,400,871.00			\$ 13,963,380.75	\$ 12,300,000.00	\$ 26,263,380.75	
Gentilly Canals and Lagoons	\$ 560,843.00			\$ 688,012.38		\$ -	
Pontilly Neighborhood Green Infrastructure	\$ 3,393,300.00			\$ 3,820,855.80	\$ 13,500,000.00	\$ 16,893,300.00	
St. Anthony Green Streets	\$ 20,109,826.00			\$ 22,643,664.08	\$ 10,005,119.00	\$ 31,782,554.14	
St. Bernard Neighborhood Campus	\$ 15,419,143.00			\$ 17,361,955.02		\$ 17,620,626.81	
Workforce Development	\$ 3,000,000.00			\$ 3,000,000.00		\$ 3,000,000.00	
Community Adaptation Program	\$ 6,163,625.00		\$4,683,335.00	\$ 10,846,960		\$ 10,846,960	
Energy Redundancy & Monitoring	\$ 1,190,178.00			\$ 1,265,178.00		\$ 1,265,178.00	
Microgrids	\$ 5,634,535.00	(5,634,535.00)		\$ 5,634,535.00		\$ 5,634,535.00	\$ 51,419.37
Water Monitoring Network	\$ 1,248,672.00			\$ 1,284,672.00		\$ 1,284,672.00	
Resilient Homes			\$10,000,000.00	\$10,000,000.00	\$-	\$10,000,000.00	
Administration	\$ 7,063,028.45			\$ 7,063,028.45		\$ 7,063,028.45	
Planning	\$ 6,311,806.55			\$ 6,311,806.55		\$ 6,311,806.55	
TOTAL	\$ 141,260,569.00	(14,683,335.00)	\$ 14,683,335.00	\$ 141,260,569.00	\$ 91,805,119.00	\$ 233,065,688.00	\$ 332,549.11

Community Adaptation Program

New Orleans Redevelopment Authority (NORA), as a partner and subrecipient to the City's NDRC grant, supports residential stormwater management interventions for Low-to-Moderate Income homeowners in Gentilly through the Community Adaptation Program.

Improvements available through the program include the installation of rain gardens, detention basins, permeable pavers, infiltration trenches, stormwater planter boxes, rain barrels, and tree planting.

Community Adaptation Program

- Overall, **193 Green Infrastructure** projects are complete on residential properties
- **77,094** Total Stormwater Captured
- **101** Trees have been planted in the Gentilly Neighborhood
- **1.09** Average Inches of rainfall displaced

- There are **23** projects in to support our workforce development project.









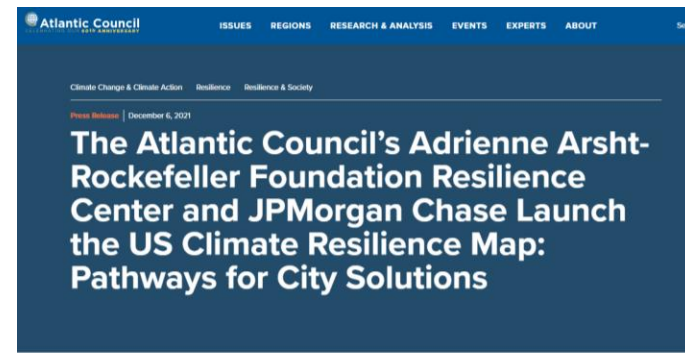


Community Partnership + Education





Community Adaptation Program identified by Arsht-Rockefeller Resilience Center as one of ten model resilience programs across the U.S.

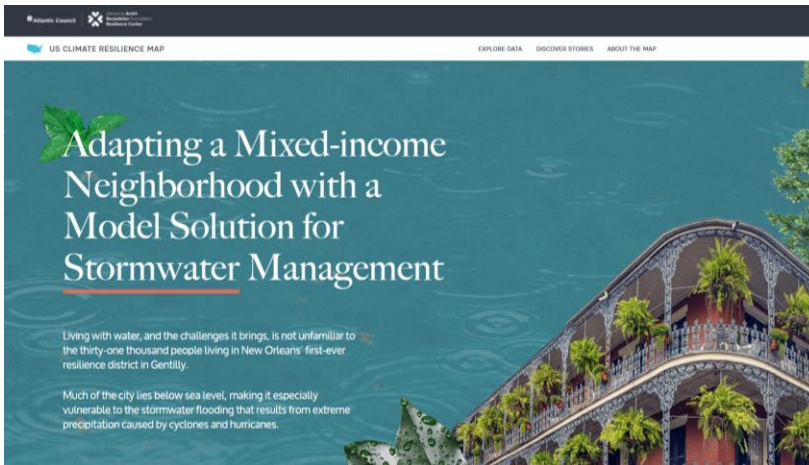


First-ever online tool maps both climate risk and social vulnerability across every state in the continental US and highlights successful climate resilience interventions in 10 stand-out cities

EXPLORE THE MAP

WASHINGTON, D.C. — December 6, 2021 — The Atlantic Council's Adrienne Arsht-Rockefeller Foundation Resilience Center (Arsht-Rock) today launched the *US Climate Resilience Map: A Pathway for City Solutions*. This

Nationwide project features climate and socioeconomic risk data and stories of resilience



Resilient Homes

New Orleans Redevelopment Authority (NORA) will build **15** homes for Low-to-Moderate Income households using three resilient designs (single story cottage, split level model and the two-story model)

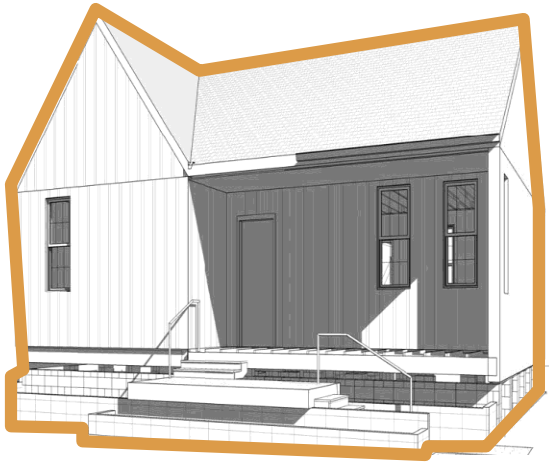
These homes will be constructed on NORA lots within the Gentilly footprint.

Each of the three homes will have traditional architectural cues however they will showcase construction methods to enhance resilience in design.

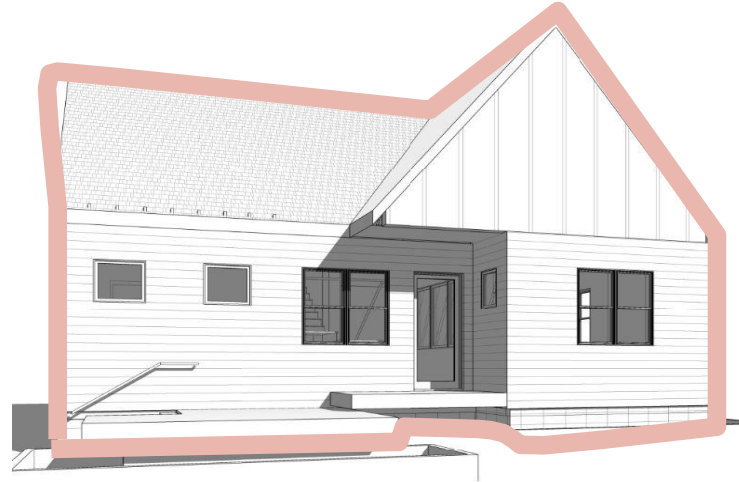
Overall, the Gentilly Resilience District will eventually showcase a combination of public and private efforts across adjacent neighborhoods that will reduce flood risk, slow land subsidence, promote energy grid independence and encourage neighborhood revitalization.

3 Resilient Home Types

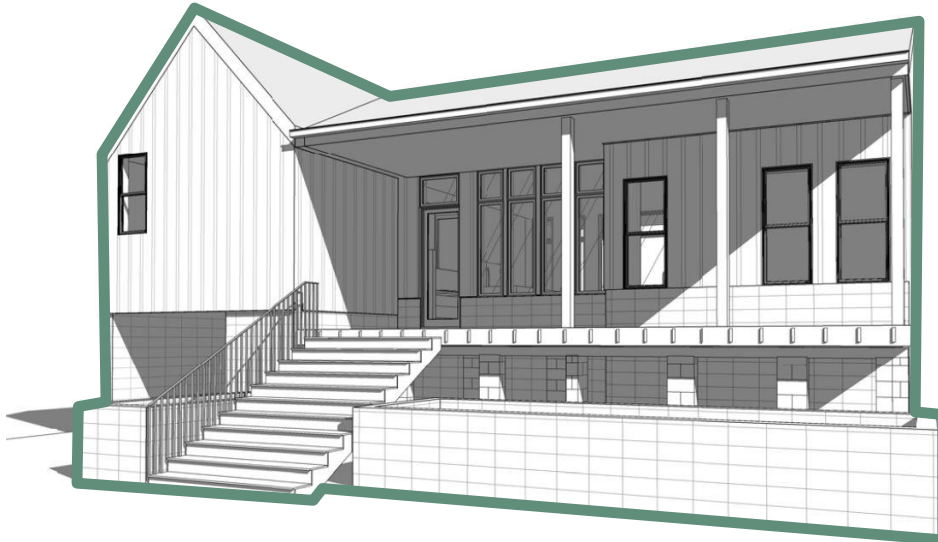
Cottage, Two Story & Split Level



Cottage



Two Story



Split Level

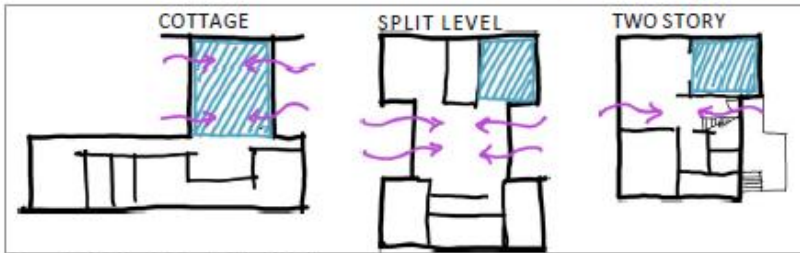
Fortified Home Strategies
Built to minimize damage from wind and hurricane damage



Generator Hookup and Backfeed Protection
Critical house circuits (refrigerator, fan, maybe HVAC, definitely coffee maker) can be grouped via transfer switch for generator power in post-storm events. This pairs well with incorporating smaller, zoned HVAC systems.



Solar / Alt Energy ready
pre-running conduit, coordinating potential conflicts, providing free space and clearance for electrical components, potentially zoning critical circuits on a transfer switch



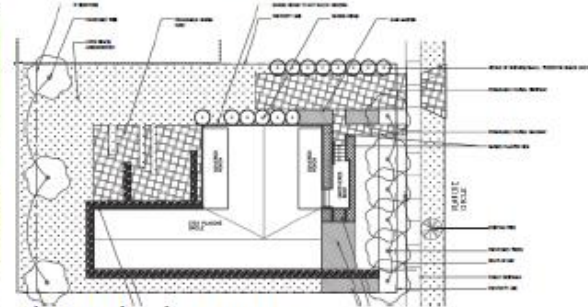
Cross Ventilation & Zoned Climate Refuges
Spaces designed to be comfortable with minimal or no mechanical ventilation in event of a power outage. This may be paired with low-intensity active ventilation measures to extend the amount of time where mechanical cooling is not required.



Durable, Efficient Materials
Utilizing cladding and components that have longer lifespans with less maintenance. Many of these have knock-on benefits related to energy efficiency and/or green building



Rain Gardens
Minimizes runoff from property and pollutants in waterways. Increase the properties ability to absorb water and limit surface level flooding

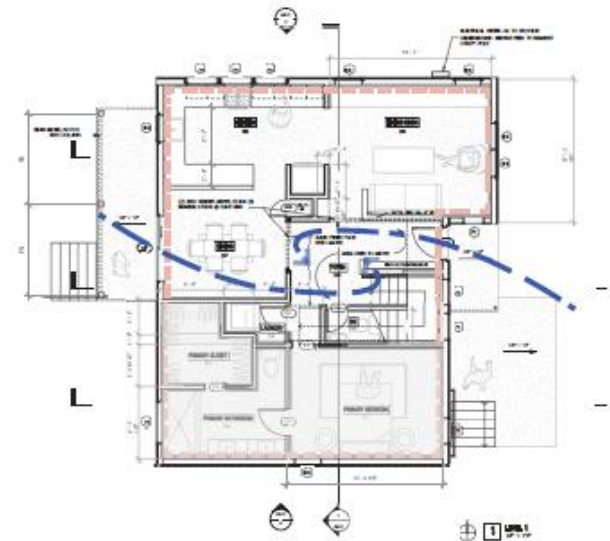
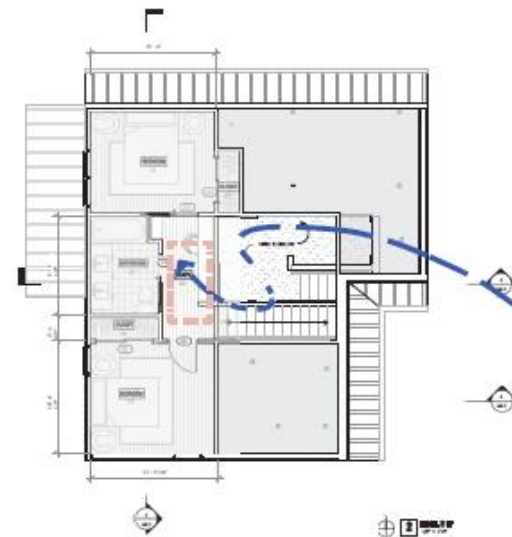


Planting and Hardscape Strategies
Bespoke landscape planning that addresses stormwater management, creates habitat, and creates area for cooler outdoor refuge.

BASELINE RESILIENCY

STRATEGIES UTILIZED IN ALL 3 HOUSES

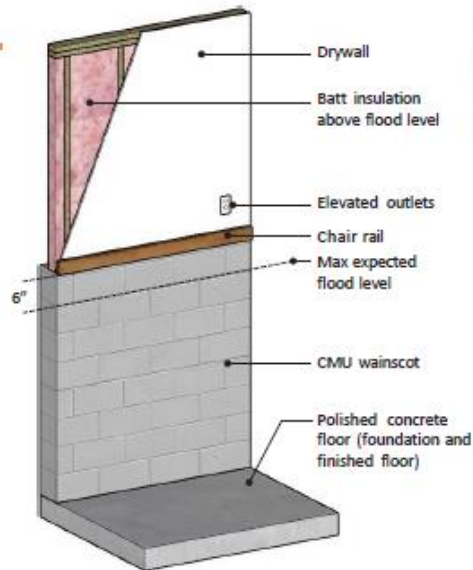
TWO STORY - THE WET FLOODPROOFING HOUSE



Primary Resilient Design Strategy

Wet Floodproofing / Termite Proofing

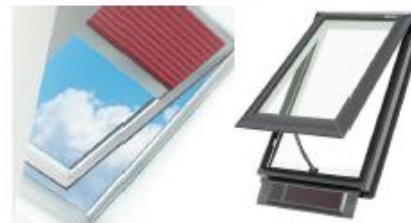
A combination of design strategies allow floodwater to enter the structure while causing minimal damage to the structure, finishes, and mechanical systems. Raised floor slab minimize flooding effects and increase foundation strength.



Secondary Resilient Design Strategies

Stack & Cross Ventilation

Creates natural airflow using thermal dynamics; warm air rises and is vented out from upper levels of the house. This helps draw in cool air through openings on the lower level.



Stormwater Management

Minimal building footprint to minimize impervious area on site



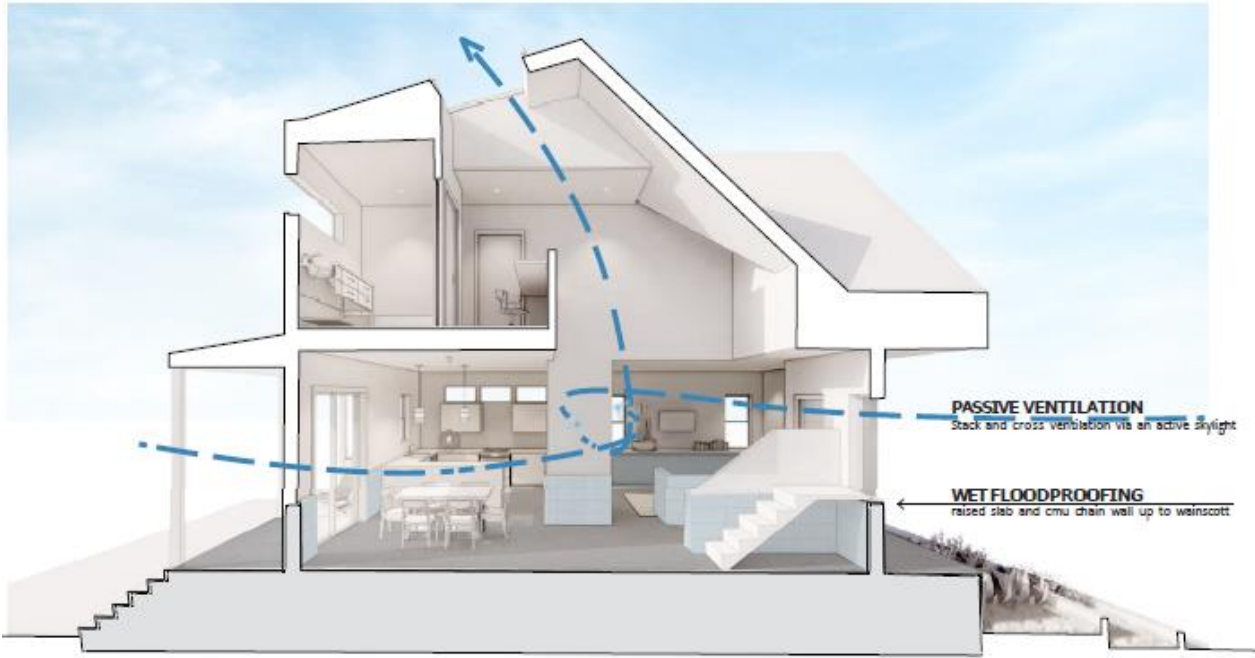
Velux Solar Powered Active Skylight

Sensor-based ventilation. Smart sensors continuously monitor temperature, humidity and CO₂ levels and open or close your skylights accordingly.

Stay in control Use the VELUX ACTIVE app to operate your VELUX skylights and blinds from anywhere using your smartphone.

Easy installation VELUX ACTIVE indoor climate control can be installed without any professional help.

TWO STORY - THE WET FLOODPROOFING HOUSE



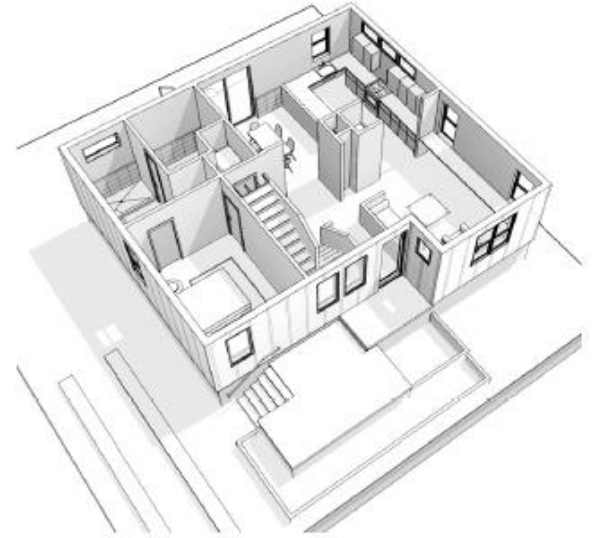
LEVEL 2



view from living room



view from entry

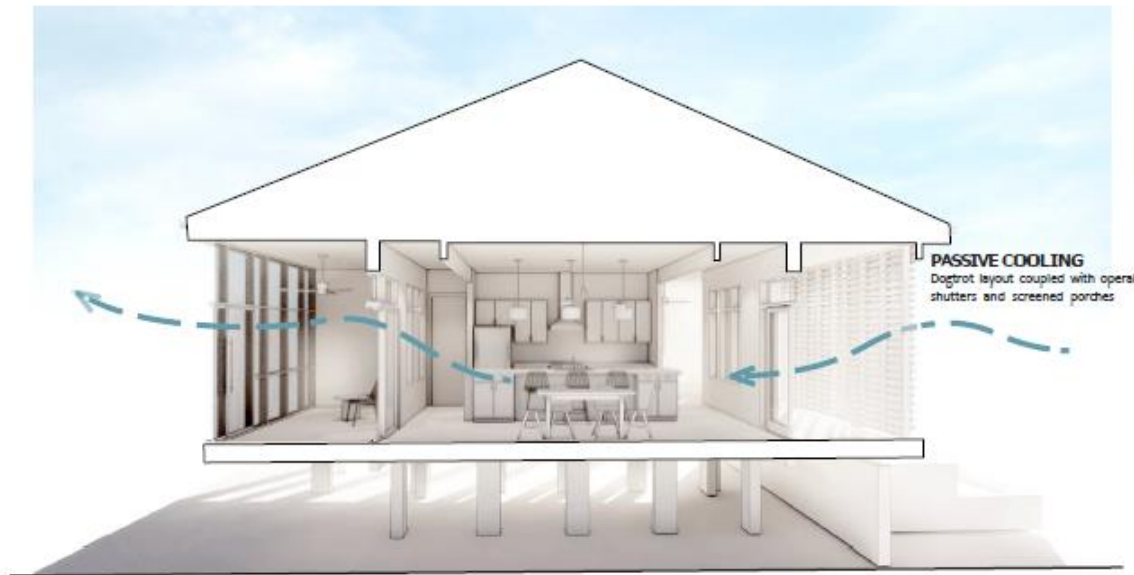


LEVEL 1

SPLIT LEVEL - THE SHUTTER HOUSE



view of kitchen and dining



PASSIVE COOLING
Dogtrot layout coupled with operable shutters and screened porches



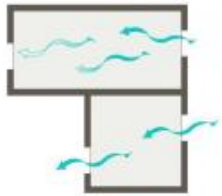
SPLIT LEVEL - THE SHUTTER HOUSE



Primary Resilient Design Strategy

Passive Cooling

The core of the house is passively cooled with the use of operable windows, shaded, screened porches, and a contemporary shutter system. The shutters and screens allow the house to be opened up at night while maintaining protection from insects and security.



Reduce distance for wind to travel by having narrow rooms with windows on longer walls



Top Vents - use doors or windows with vents at top to let hot air escape.

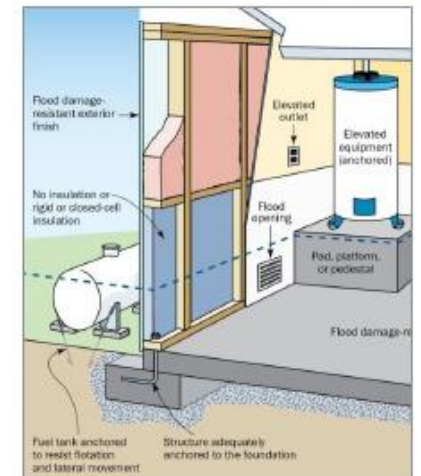


SHUTTERS - shutters layered with screens allow occupants to passively ventilate their homes at night while sleeping, maintaining security & minimizing insect intrusion. Shutters also provide solar shading.

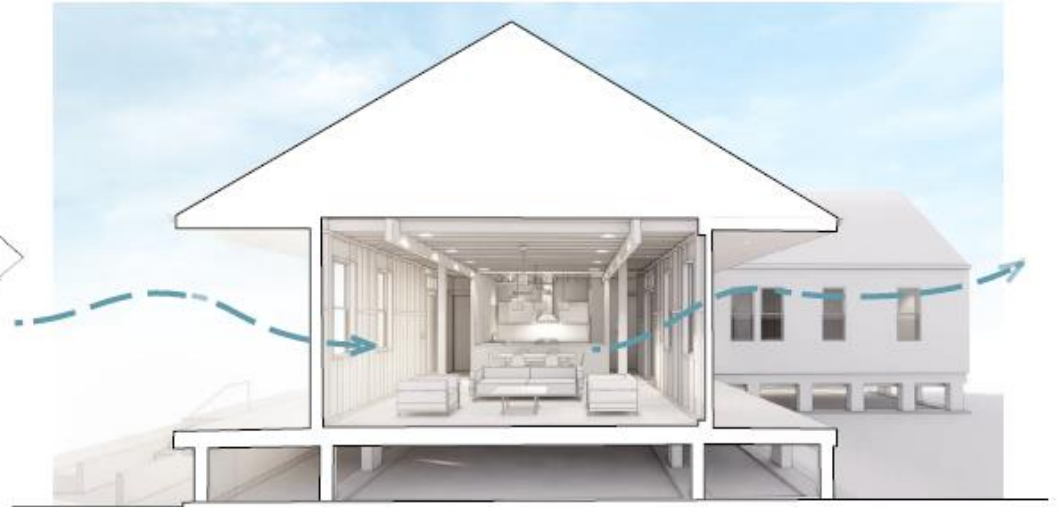
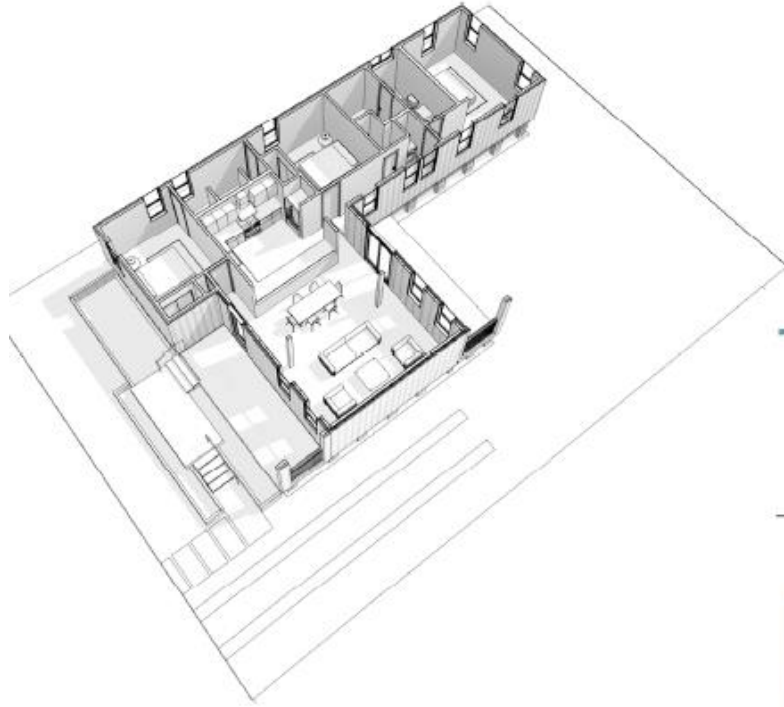
Secondary Resilient Design Strategy

Easy Wet Floodproofing

Elevated outlets & equipment, horizontal exterior sheathing at 4' for easy replacement, flood-damage resistant flooring



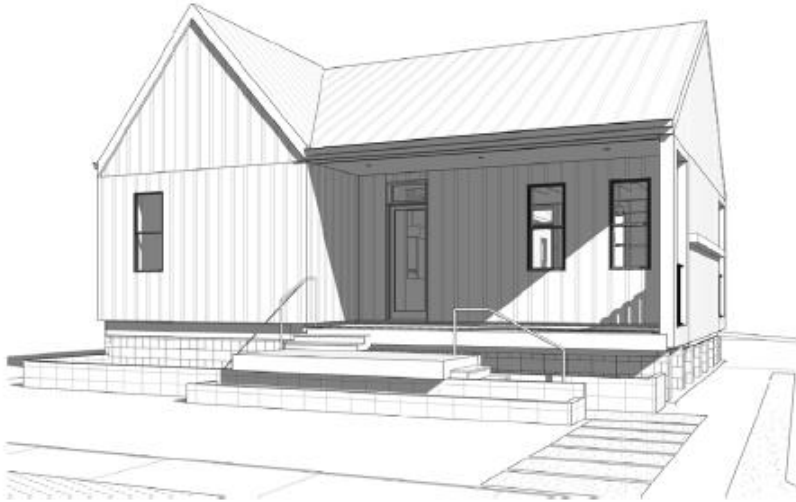
COTTAGE - THE PERFECT WALL HOUSE



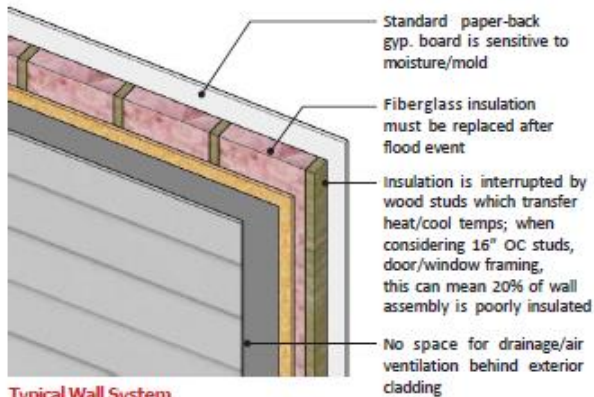
view of public space illustrating the perfect wall



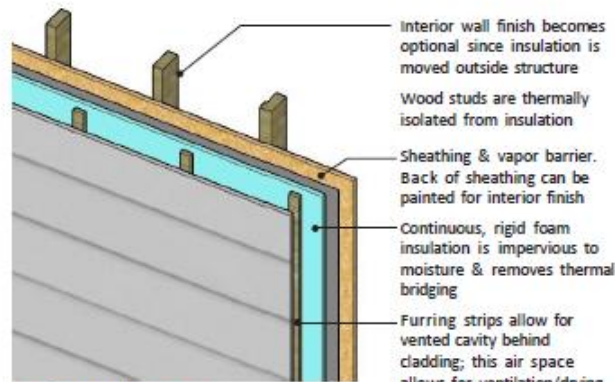
COTTAGE - THE PERFECT WALL HOUSE



PERFECT WALL SYSTEM - Air, water, vapor, and thermal control layers are placed outside of the sheathing and structure. The result is a highly insulated, moisture-resistant wall; this reduces impacts of flooding, reduces thermal bridging, increases thermal comfort when the space is cooled/heated by passive means only, and decreases energy use when mechanical HVAC systems are in use.



Typical Wall System
Moisture-sensitive and not thermally efficient



"Perfect" Wall System
Uses flood-resistant materials that provide superior insulation for improved energy efficiency & comfort



"Perfect" Wall System - Interior
Sheathing & studs can become interior wall finish since all insulation is outside of the structure

Public Comment Period

The comment period on the proposed CDBG-DR NDRC Substantial Amendment #2 is open as of March 31, 2023. All comments must be received no later than April 30, 2023 at 5:00 p.m.

Comments can be emailed to bmwilson@nola.gov or dropped off to 1340 Poydras, Suite 1000, New Orleans, LA 70112

- At the end of the comment period, all comments will be reviewed, and a City response will be incorporated in a Responses to Public Comment document. A summary of the comments and the City's responses will be submitted to HUD for approval as part of the CDBG-DR NDR Substantial Amendment #2.

The NDR Action Plan and all amendments and any public comments and responses will be posted on the City's website listed below.

<https://nola.gov/resilient-new-orleans/ndr-grd-projects-programs/isaac-recovery-program/>



**Scan
ME!**



Questions?

City of New Orleans

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D-CDBG Program Manager

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504-901-2414