

FEBRUARY 24-26, 2020 I MIAMI, FL

Housing Opportunity Conference

Living with Water



Nicholas Iselin Lendlease



Jacqueline Gonzalez

Touzet

Touzet Studio



Laurie Schoeman
Enterprise Community
Partners, Inc.



Thomas MooneyPlanning Department for the City of Miami Beach

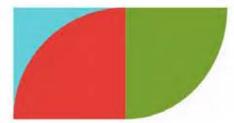


Katharine Burgess

Urban Land Institute

Moderator



































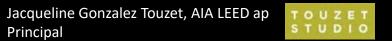


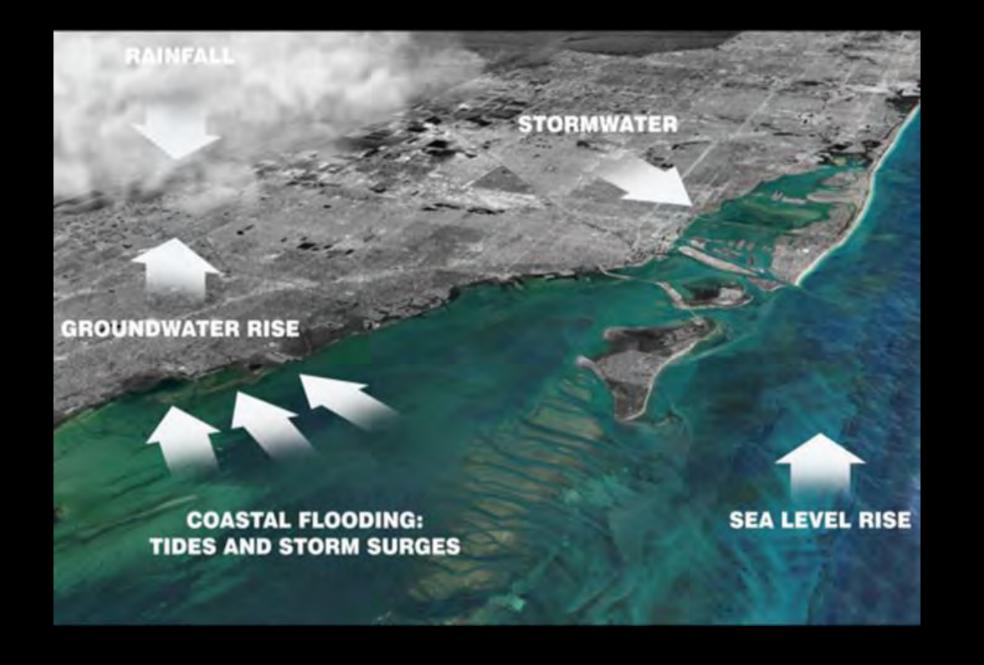




Principal

HOUSING OPPORTUNITY
2020







GROVE CENTRAL, COCONUT GROVE



GROVE FEATURES

Grove Central will feature a large rooftop solar trellis, capable of powering the entire development. It will incorporate a large micro-grid battery that will provide silent, stable power without toxic gas emissions. Very importantly, Grove Central Station has been designed to be a sizable hub of normalcy during natural disturbances: Resilient Design will allow Grove Central to continue to deliver people to their jobs, provide key goods and services shortly after any storm event, and power residences and businesses. Grove Central Station exemplifies cutting-edge and smart development for 21st century Miami.





URBIN RETREAT, MIAMI BEACH

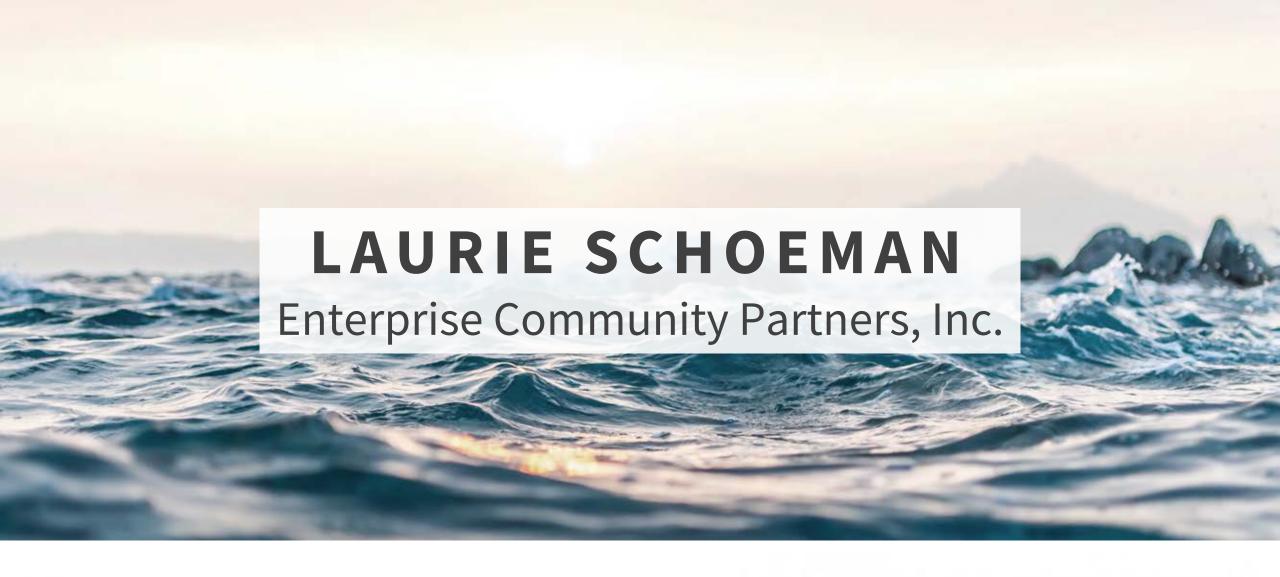






SHEPHERD ECO, WYNWOOD













greater impacts"



An aerial view of the destruction left by Hurricane Michael in Mexico Beach, Florida.

To all Tenants of the Sea Horse RV Park:

We regret to inform you due to the severity of damage done by Hurricane Irma we must close the RV Park. We have a number of potential life safety issues and it is not safe to stay at the park.

Please remove all your belongings that have not been damaged by the hurricane and seek housing off the grounds. We recommend you contact FEMA using these contact numbers and websites, they can help you with temporary housing and financial assistance.

Call: 1-800-621-3362 FEMA - Federal Emergency Management Agency

By computer: DisasterAssistance.gov

Electricity service and water supply will not be returned to the park as the damage is too severe to allow it to be connected. Within the next week we will be removing damaged trailers and disassembling any will be if you own the trailer and it is capable of being









MANTÉNGASE SEGURO

UNA GUÍA PARA EL DISEÑO DE VIVIENDAS RESILIENTES EN COMUNIDADES ISLEÑAS











KEEP SAFE

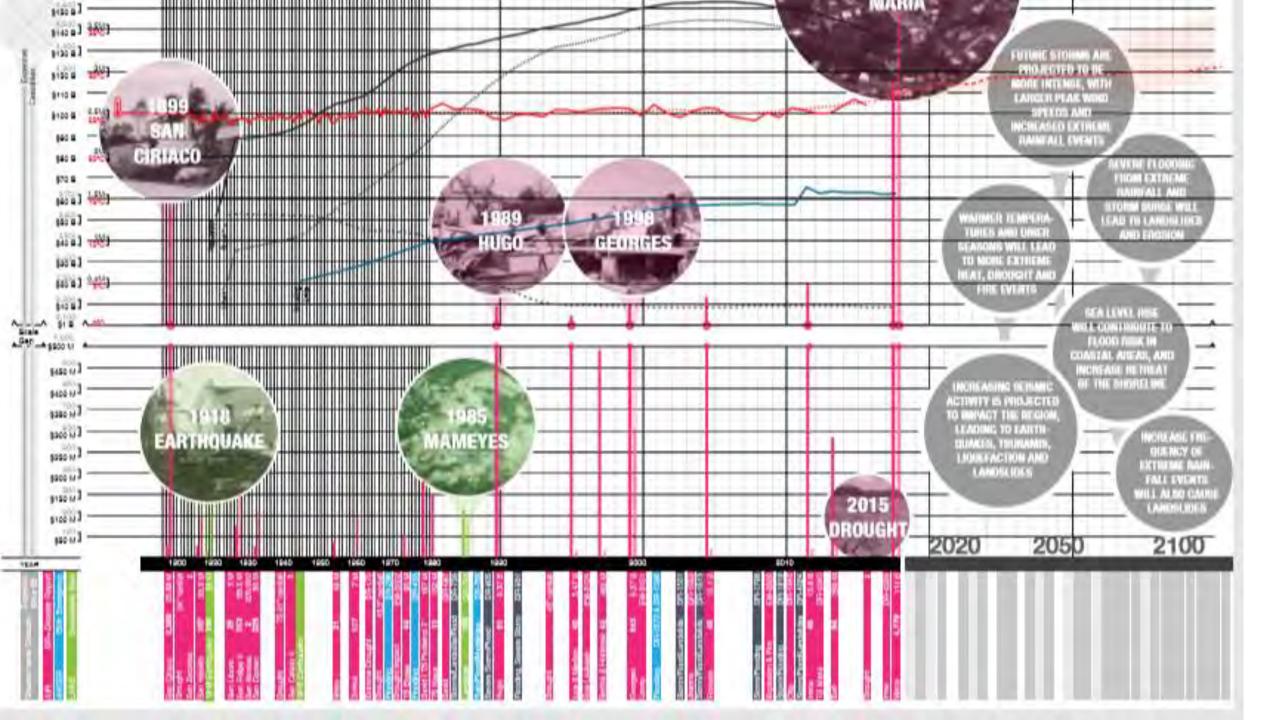
A GUIDE FOR RESILIENT HOUSING DESIGN IN ISLAND COMMUNITIES



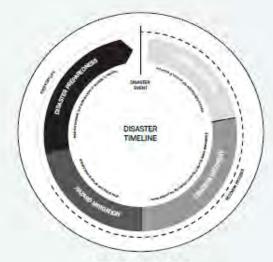




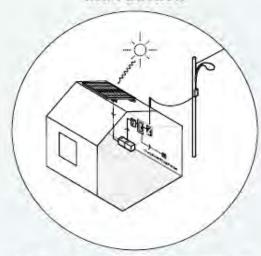




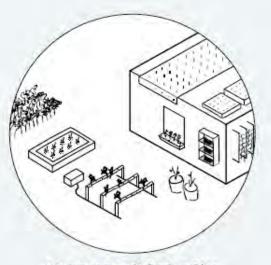
KEEP SAFE CHAPTERS



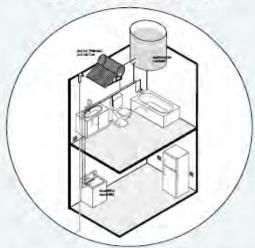
Introduction



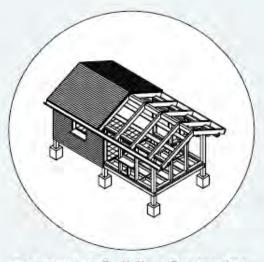
Chapter 4: Energy Generation



Chapter 1: A Safer Site



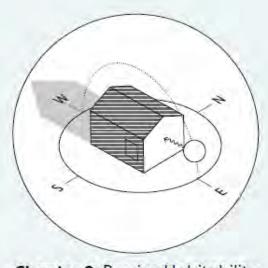
Chapter 5: Water Management



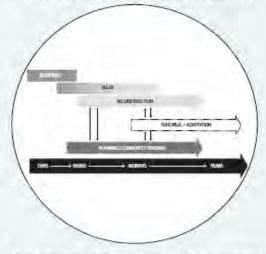
Chapter 2: Building Protection



Chapter 6: Household Preparedness



Chapter 3: Passive Habitability



Chapter 7: Community Engagement

Faces of Resilience



People

The extent of personal discomfort, harm, injury, or loss of life.



Physical Assets

Loss or damage to structural and architectural building components, MEP and IT equipment, utilities, landscaping, contents.



Operations

Disruption to building operations and functionality, occupancy, egress/ingress, critical systems, or lab activities.



Revenue

Loss of revenue due to business interruption, specifically in relation to tenants.



Reputation

Negative media attention or impact on industry reputation in the aftermath of an impactful shock or stress.

"The house is the place where both planning and community development impact upon the family and individual. Planning for housing should consider the social, economic and psychological needs of the individuals and families who will occupy the housing. And housing must be considered within the community context."

Lucilla Fuller Marvel





- Barrio Toro Negro Inc., Ciales
- Casa Pueblo, Adjuntas
- Centro Comunitario de Caimito, San Juan
- Centro de Adiestramiento para Personas con Impedimentos (CAPI Inc.)
- Comunidad Corcovada, Añasco
- Daguao, Naguabo
- Enlace, San Juan
- Ferdinando Abruña Y Casa Ausente, Dorado
- Heart 911, New York City
- Hogar Alberque Para Niños
- Jaquita Baya/ La Comedería, Miramar, San Juan
- PECES, Punta Santiago, Humacao
- Plenitud, Las Marías
- Resilient Power Puerto Rico, San Juan
- Rio Chiquito, Ponce
- Rosalina Abreu y Susana Sanabria,
- Asociación Recreativa Educativa y Comunal Barrio Mariana, INC. (ARECMA), Humacao
- San Juan Bay Estuary, San Juan
- Taller Salud, Loíza

Systems of a Community Resilience Center

COMMUNICATIONS

- KP4.
- Satellite phone
- Loudspeaker.
- Wifi/Data access for social media/ community bandwidth access for communication.
- Community-based radio station.
- · Analogue telephone life.
- GoTenna mesh system- allows texting and GPS without internet.

STRUCTURAL

A professional structural engineer should be consulted to verify the building meets code requirements for seismic movement. Depending on location, ensure the structure can withstand forces caused by storm surge produced by hurricane or tsunami events.

ENERGY STORAGE

Design a holistic system that includes batteries for storing energy. Ensure that basic needs—like ventilation, emergency lighting, and electricity for essential equipment—is connected.

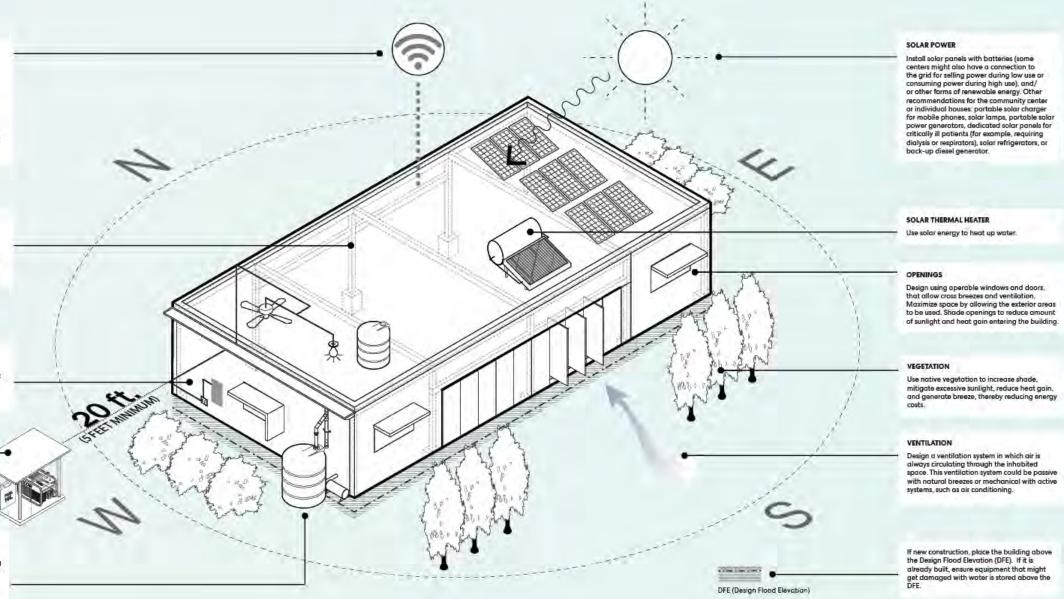
ENERGY GENERATOR

Have a backup energy generator for emergencies. Ensure that the generator is placed autdoors, at least 20ft from the structure, and is protected from debris.

RAINWATER COLLECTION

Install a rainwater collection system for nonpotable water use, such as irrigation, flushing toilets and cleaning. If purified, water can be used for drinking.

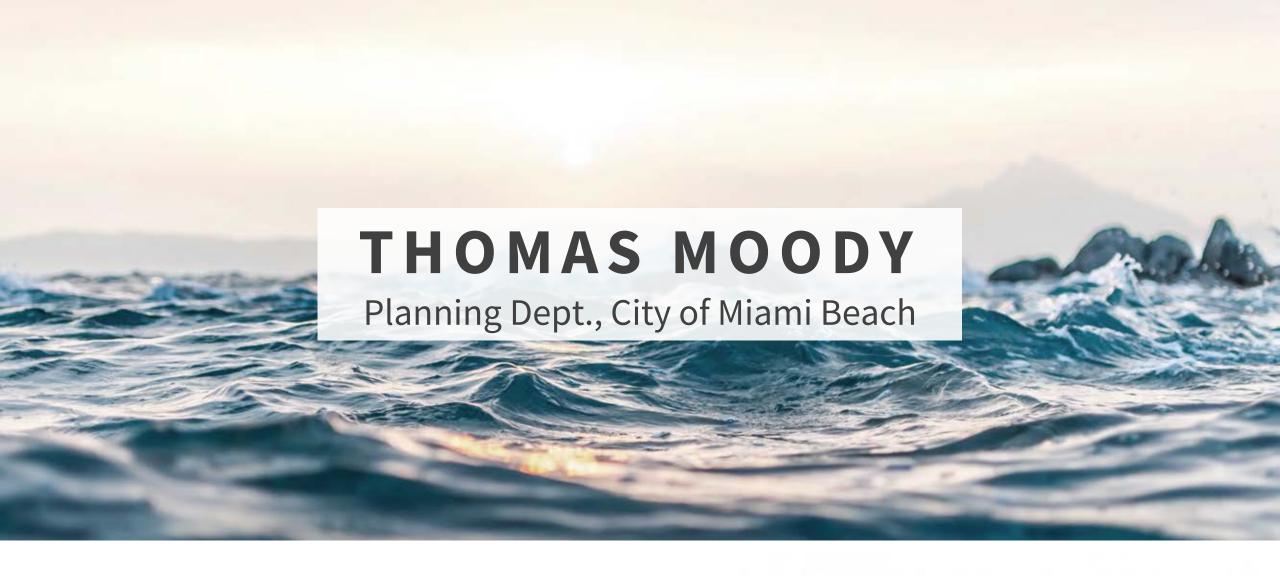
Rainwater storage tank could be located on the roof or ground.



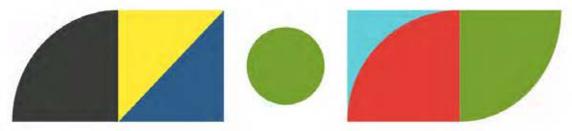
OUR OPPORTUNITY

- FEMA-BRIC and HGMP
- HUD- CDBG, CDBG-DR, CDBG-MIT
- Community
 Reinvestment Act





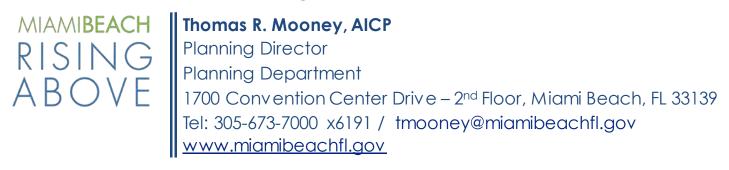




Living With Water - Policy Innovation on Miami Beach

www.mbrisingabove.com

Thomas R. Mooney, AICP **Planning Director** City of Miami Beach Planning Department





Miami Beach's Physical Typology

SOUTH BEACH CROSS SECTION





Hurricane Irma 2.8ft (Sept 10)

2017 KING TIDES 2.3ft (Oct 5)

7 tides over old road

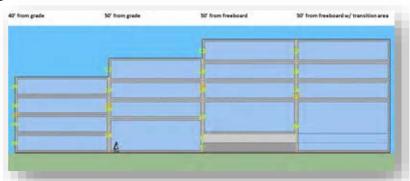
1.7ft old crown road

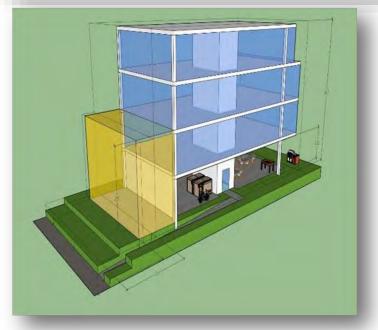


Regulations for New Construction to Mitigate Sea

Level Rise

	Old Requirements	New Requirements
Base Flood Elevation (BFE)	5.44 Feet NAVD (7 Feet NGVD)	6.44 Feet NAVD (8 Feet NGVD)
Freeboard	0 feet above BFE	+1 to +5 feet above BFE
Seawall Elevation (Private)	3.2 FT NAVD 4.76 FT NGVD	4 to 5.7 FT NAVD 5.56 to 7.26 FT NGVD
Seawall Elevation (Public)	3.2 FT NAVD 4.76 FT NGVD	5.7 FT NAVD 7.26 FT NGVD
Minimum required yard elevation	No minimum required	5.0 Feet NAVD (6.56 Feet NGVD)





5th and Alton – Unified Development Site



Miami Beach Historic Districts



14 Local Historic
Districts and 4
National Register
Districts

2,611 Buildings located in ALL districts

1,890 Contributing Buildings located in ALL districts - 72%







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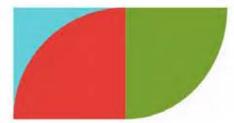


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Urban Resilience program at ULI resilience@uli.org





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