


SECTION IX

# *Neighborhood Project Prioritization*

*GO Bond Oversight Committee*

*November 18, 2021*

MIAMIBEACH  
RISING  
ABOVE



# 1 BEST AVAILABLE SCIENCE AND ENGINEERING

# 2 GUIDING PLANS & POLICIES: PUBLIC + PRIVATE

# 3 IMPLEMENTATION PROJECTS

## As we plan for sea level rise, we address broader social and economic resilience:

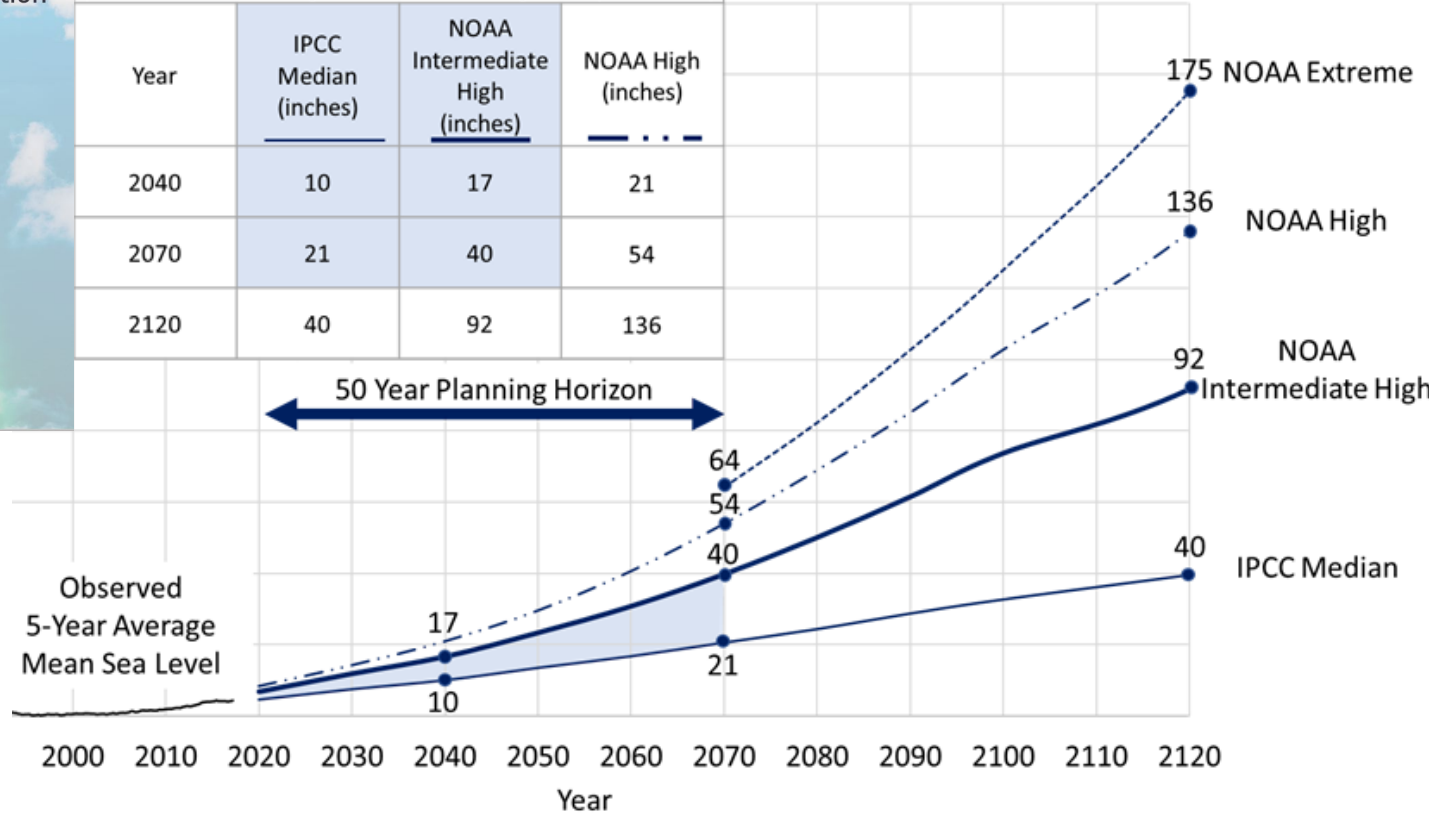
- Safety: Reducing flood risk and avoiding damage
- Aging Infrastructure: water and sewer, roads, lighting
- Blue-Green Infrastructure
- Aesthetics
- Urban Tree Canopy
- Water Quality, Sustainability and Environmental Resources
- Mobility- more pedestrian and bike friendly
- Historic Preservation
- Private Property Adaptation
- Social and Economic Resilience



## ADOPTED BY THE CITY COMMISSION ON JULY 24, 2020

**Unified Sea Level Rise Projection**  
(Southeast Florida Regional Climate Change Compact, 2019)

Year	IPCC Median (inches)	NOAA Intermediate High (inches)	NOAA High (inches)
2040	10	17	21
2070	21	40	54
2120	40	92	136



## SHORT, MEDIUM, LONG-TERM RESILIENCE PLANNING



## RECENT INFORMATION ON BENEFITS OF INVESTING IN SEA LEVEL RISE ADAPTATION

# 1

**STUDIES AND  
MEDIA COVERAGE  
OF EXPECTED  
DAMAGE AND  
PROPERTY VALUE  
LOSS**

# 2



**BUSINESS CASE  
ANALYSIS OF THE  
STORMWATER  
PROGRAM IN  
MIAMI BEACH**

**\$2B:** *Investment is reasonable and conservative based on study assumptions*

**3:1** *Private Property ROI (study area)*

**4.9-14.1%** *City investments in the right-of-way increase property values for each ft of elevation*

# 3



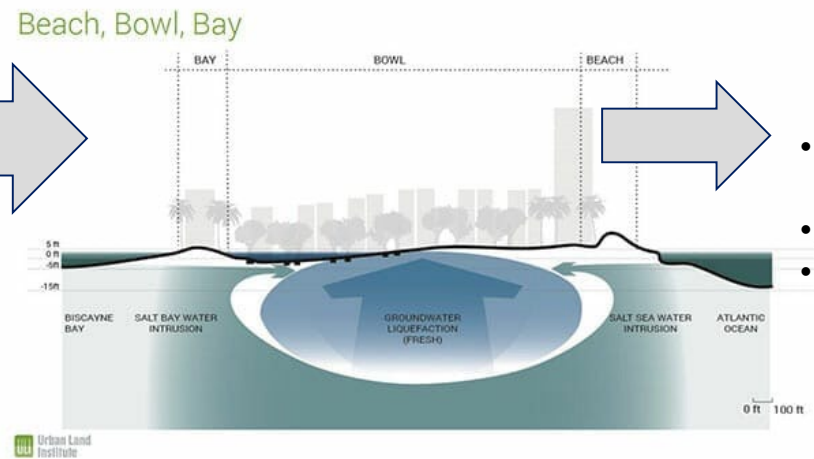
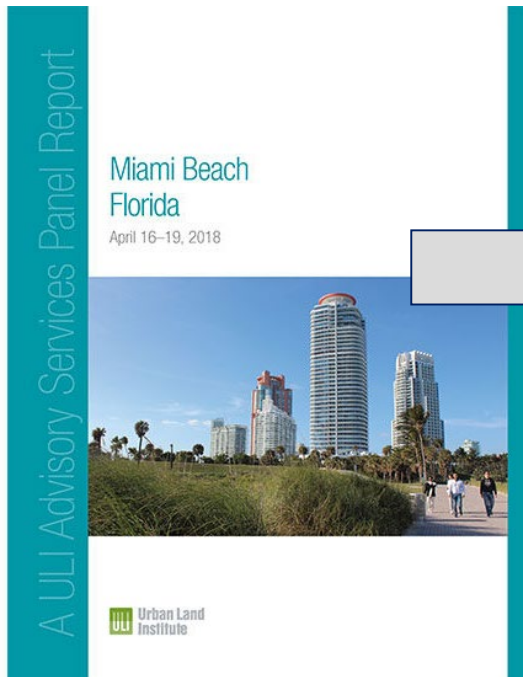
**BUSINESS CASE  
FOR RESILIENCE IN  
SOUTHEAST  
FLORIDA**

**9:1** *Community-wide MDC*

**5:1** *Building-level MDC*

MIAMI BEACH

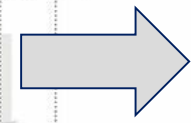
# HOLISTIC INFRASTRUCTURE RESILIENCE PROJECTS: INTEGRATED WATER MANAGEMENT



Approved by City Commission:



- Blue Green Infrastructure Concept Plan
- Road Elevation Methodology
- Neighborhood Project Prioritization – Methodology and Results



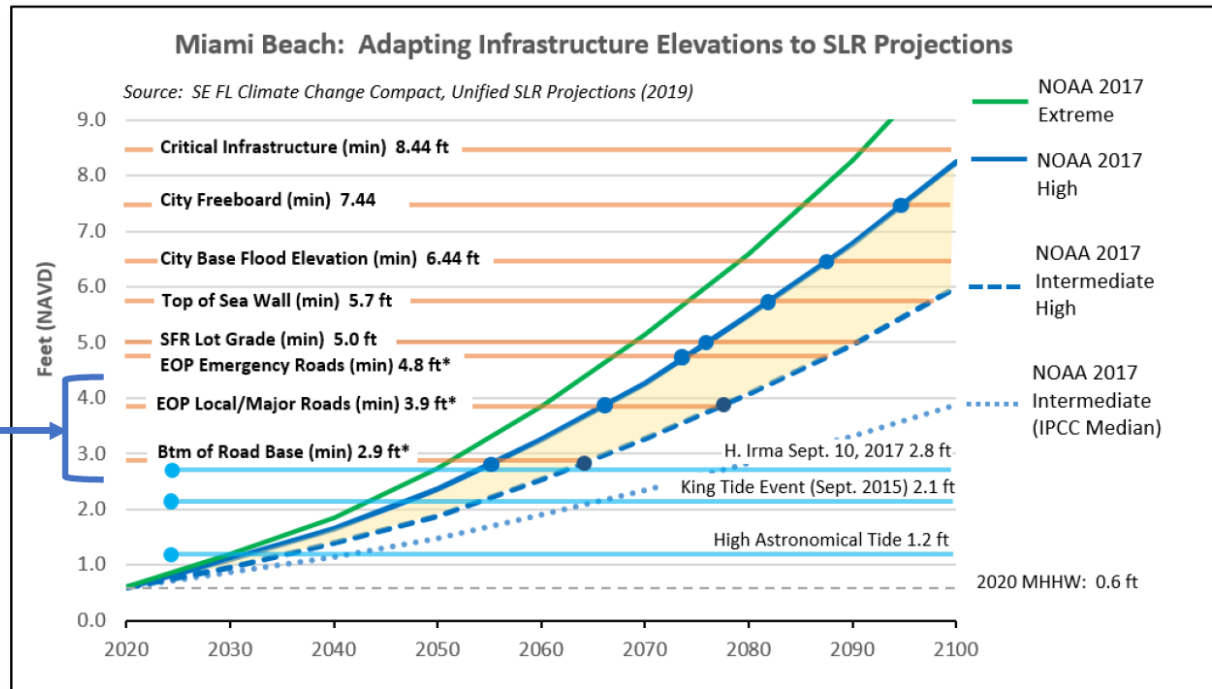
## Green & Blue Infrastructure Considerations

- High porosity of limestone base
- High groundwater table
- Dense urbanization

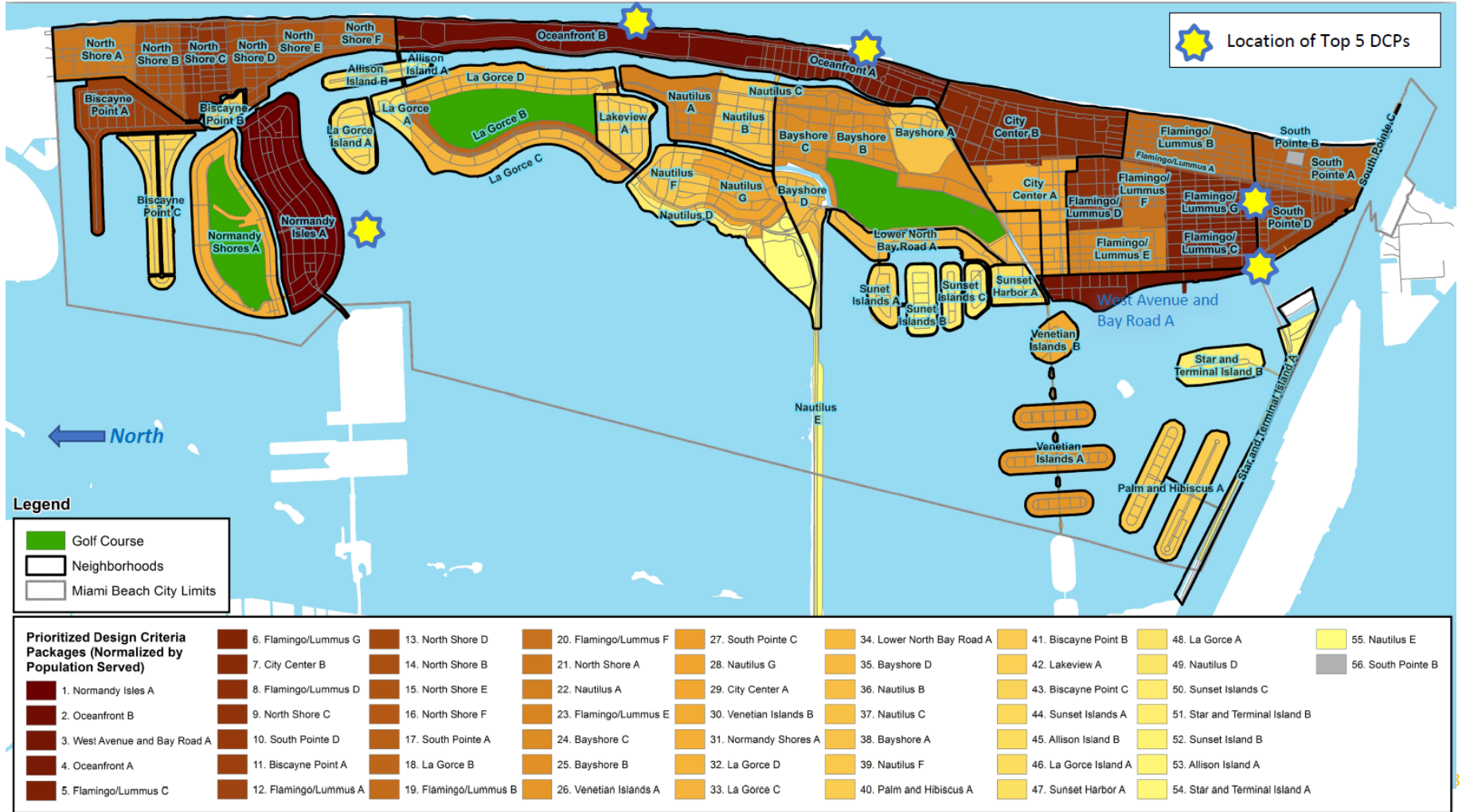
NEXT STEP: Develop Designs utilizing integrated approach for Neighborhood Improvements

## HOW ELEVATION STANDARDS HELP US PLAN

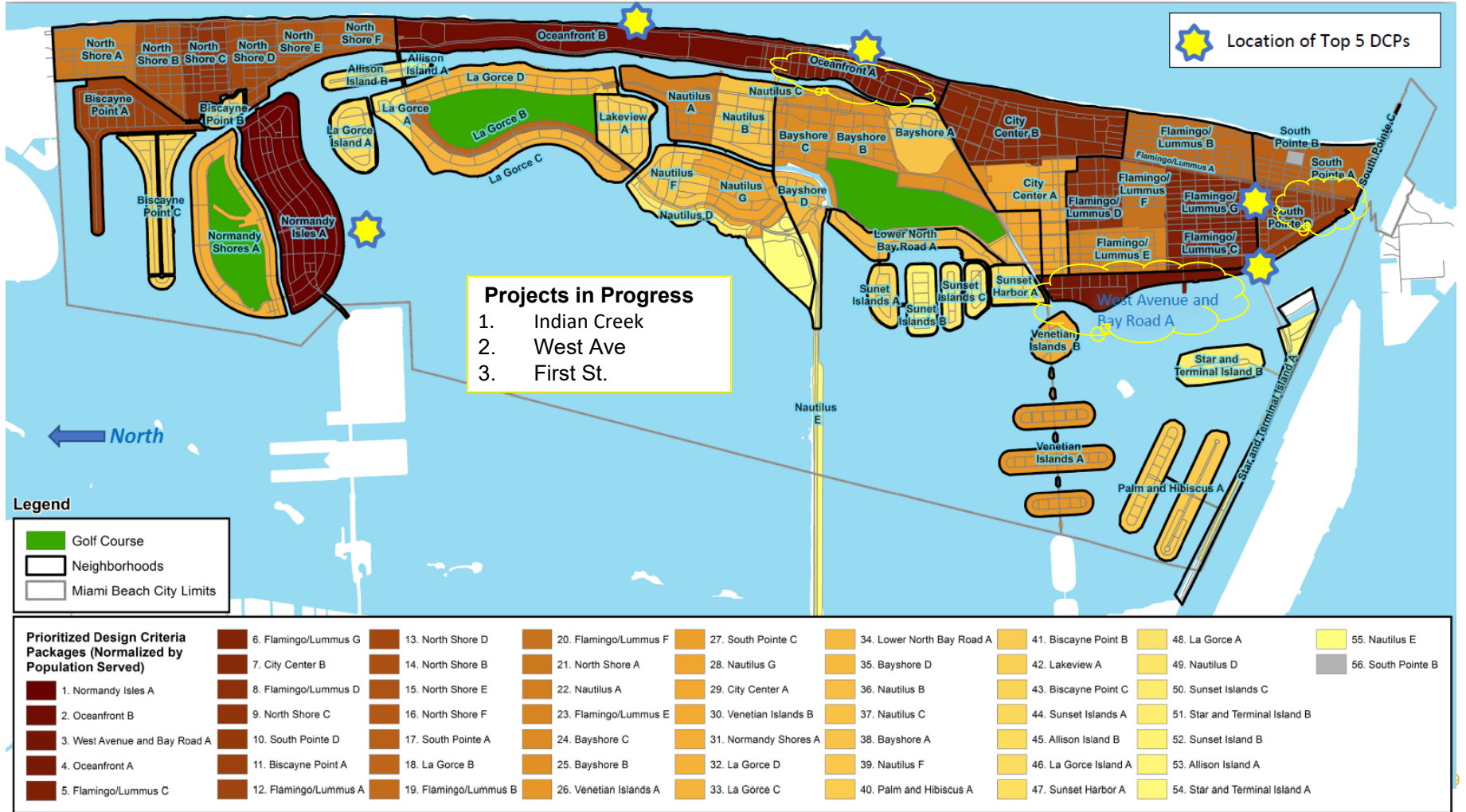
Updated Road Elevations

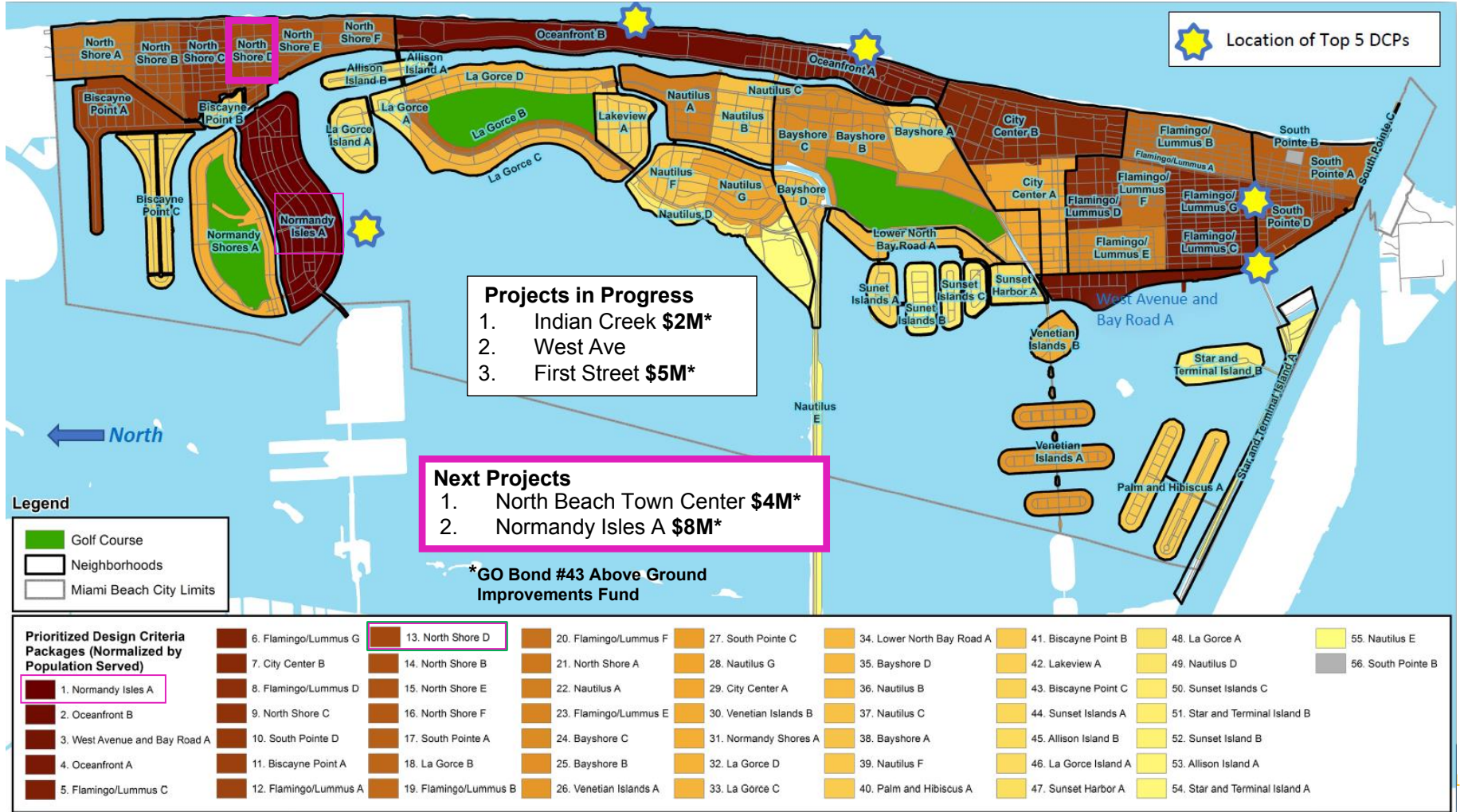


\* Minimum design elevations for roads per Draft 2020 City Road Policy, varies by road classification.









## ON DECK: NORTH BEACH TOWN CENTER

- NBTC overlay was approved in Nov 2018, after being envisioned by the North Beach Master Plan (approved Oct 2016)
- Development in NBTC will accelerate CRA benefits
- **The NBTC is resilient ready:** requires sea level rise adaptation through a 5' freeboard that can more easily harmonize with road elevation goals.
- NBTC requires greater setbacks, which will mean **easier harmonization** and pedestrian-friendly walkways, with larger trees for a more immediate canopy.
- **6 Private developments have been approved,** providing an opportunity for coordination for above ground improvements.
- 72<sup>ND</sup> St Complex is adjacent to the North Beach Town Center





QUESTIONS?

MIAMIBEACH  
RISING  
ABOVE