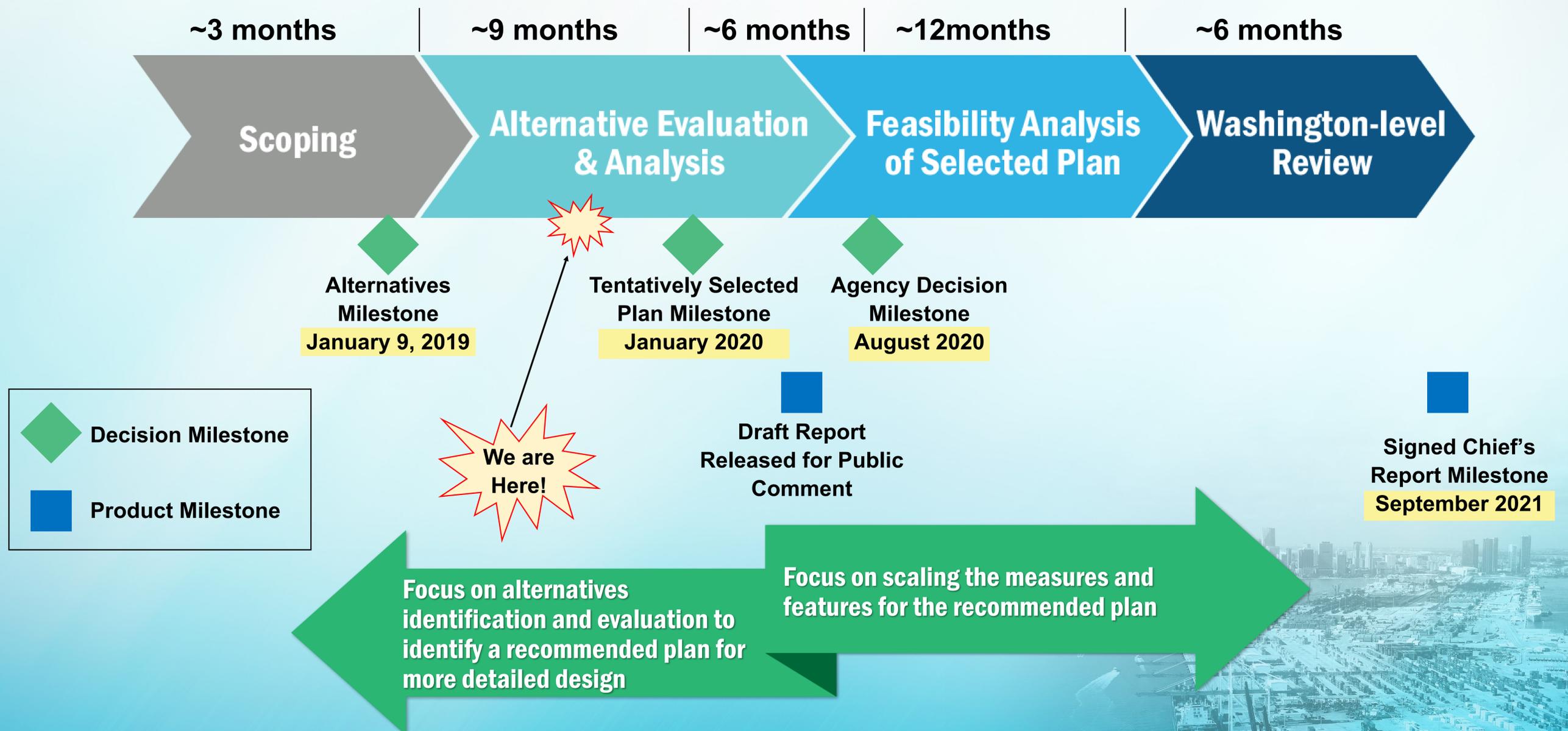


FLORIDA KEYS COASTAL STORM RISK MANAGEMENT FEASIBILITY STUDY

THE FEASIBILITY STUDY PROCESS: KEY DECISION & PRODUCT MILESTONES



The draft Integrated Report/Environmental Impact Statement will be available for public review approximately March 2020.

PROBLEMS, OPPORTUNITIES, OBJECTIVES, AND CONSTRAINTS

PROBLEMS

- Critical infrastructure is at risk to the effects of coastal storms
- Critical transportation routes, specifically U.S. Route 1, are at risk to the effects of coastal storms
- Structures (commercial and residential) are at risk to the effects of coastal storms
- Utilities including water, wastewater, electricity, phone, etc. are at risk to the effects of coastal storms and are essential for human health and safety
- There are rich environmental resources that are at risk to the effects of coastal storms. Some of these resources, mangroves for example, provide a reduction in the effects of coastal storms on the study area and their loss increases the risk to the built environment and life safety

OPPORTUNITIES

- Reduce economic damages from coastal storms and coastal flooding
- Reduce the risks to human life, health, and safety
- Reduce the impacts of coastal storms on U.S. Route 1
- Improve the resilience of the Florida Keys to the impacts of coastal storms and flooding
- Utilize nature based features and/or restoration of the natural coastal system of defenses
- Improve floodplain management
- Improve existing canal system
- Sediment management
- Possible benefits to the Department of Defense facilities located in the vicinity

OBJECTIVES

- Reduce economic damages from coastal storms and coastal flooding to the natural and built environment in the Florida Keys
- Reduce the coastal storm risk to human life, health, and safety to the population in the Florida Keys
- Improve the resilience of the Florida Keys to the impacts of coastal storms and flooding

CONSTRAINTS

- Avoid creating or exacerbating flooding within the project area and to local military installations
- Minimize impacts to environmental and cultural/historic resources in the study area and nearby (e.g. National Marine Sanctuary)
- Avoid the large amount of protected and Federal land within the study area

How can I provide comments?

- You may fill out a written comment form at this meeting and place it in the comment box.
- You may enter your comments electronically at <http://arcg.is/1mDaDT>

- You may email or mail comments to:
Kimberly Koelsch
Email: Kimberly.C.Koelsch@usace.army.mil

USACE Norfolk District
ATTN: Kimberly Koelsch
803 Front Street
Norfolk, VA 23510

NEPA Comments are due by October 12, 2019.



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MONROE COUNTY
FLORIDA

MANAGEMENT MEASURES FOR CONSIDERATION

Structural

- Shoreline Stabilization
- Ring Walls



Ring Wall



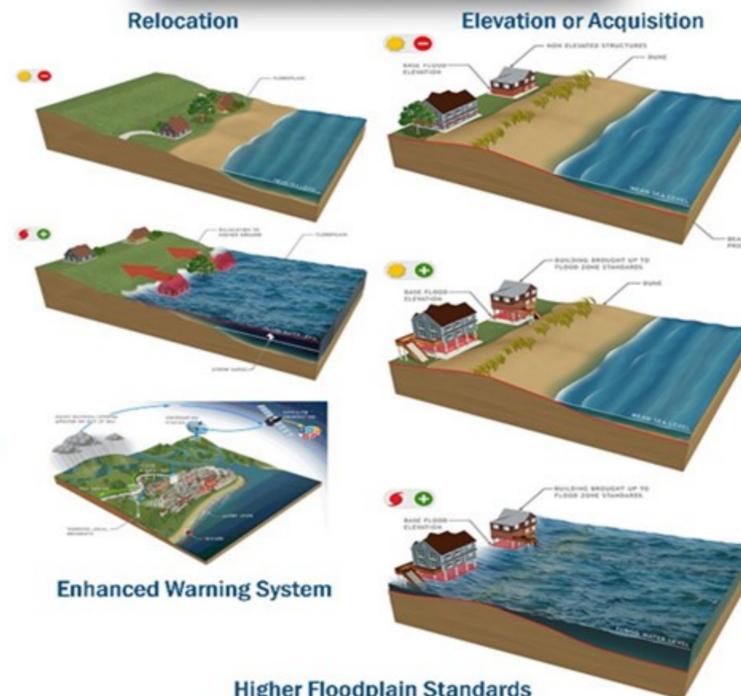
Shoreline Stabilization

Nonstructural

- Elevation
- Acquisition
- Wet/Dry Floodproofing
- Floodplain Management
- Warning Systems



Relocation



Natural and Nature-based

- Mangrove Restoration
- Living Shoreline



Mangrove Restoration



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MONROE COUNTY
FLORIDA

PROPOSED SHORELINE STABILIZATION LOWER KEYS



Shoreline Stabilization Along Route 1
Middle/Lower Keys, Monroe County, FL

Shoreline Stabilization Along Route 1

0 1.5 Miles
Map: PublicMeetingMaps
Developed By: Tammy Knecht
Date: 8/29/2019

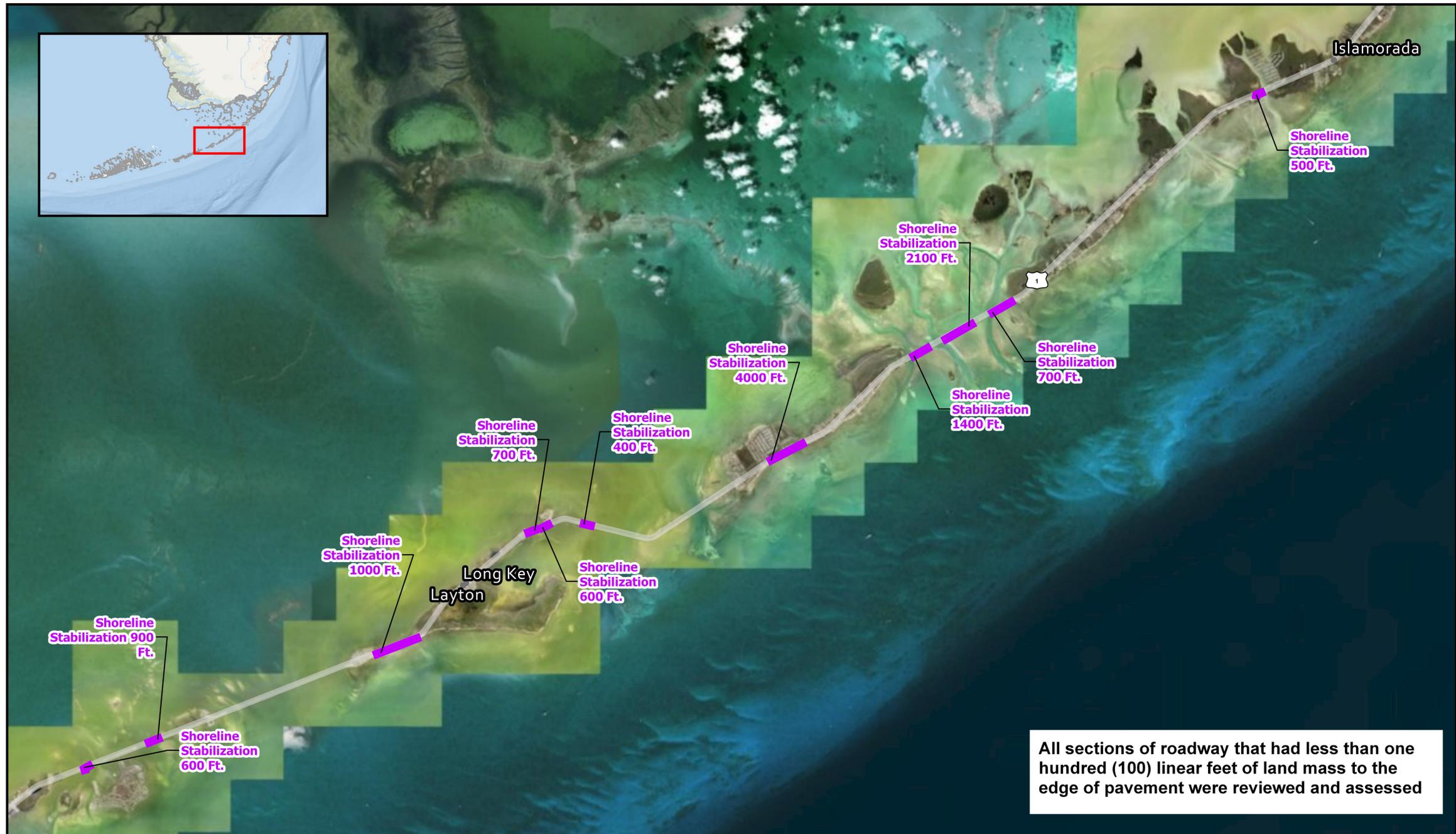


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PROPOSED SHORELINE STABILIZATION UPPER KEYS

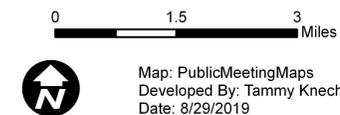


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Shoreline Stabilization Along Route 1

Upper/Middle Keys, Monroe County, FL

Shoreline
Stabilization Along
Route 1

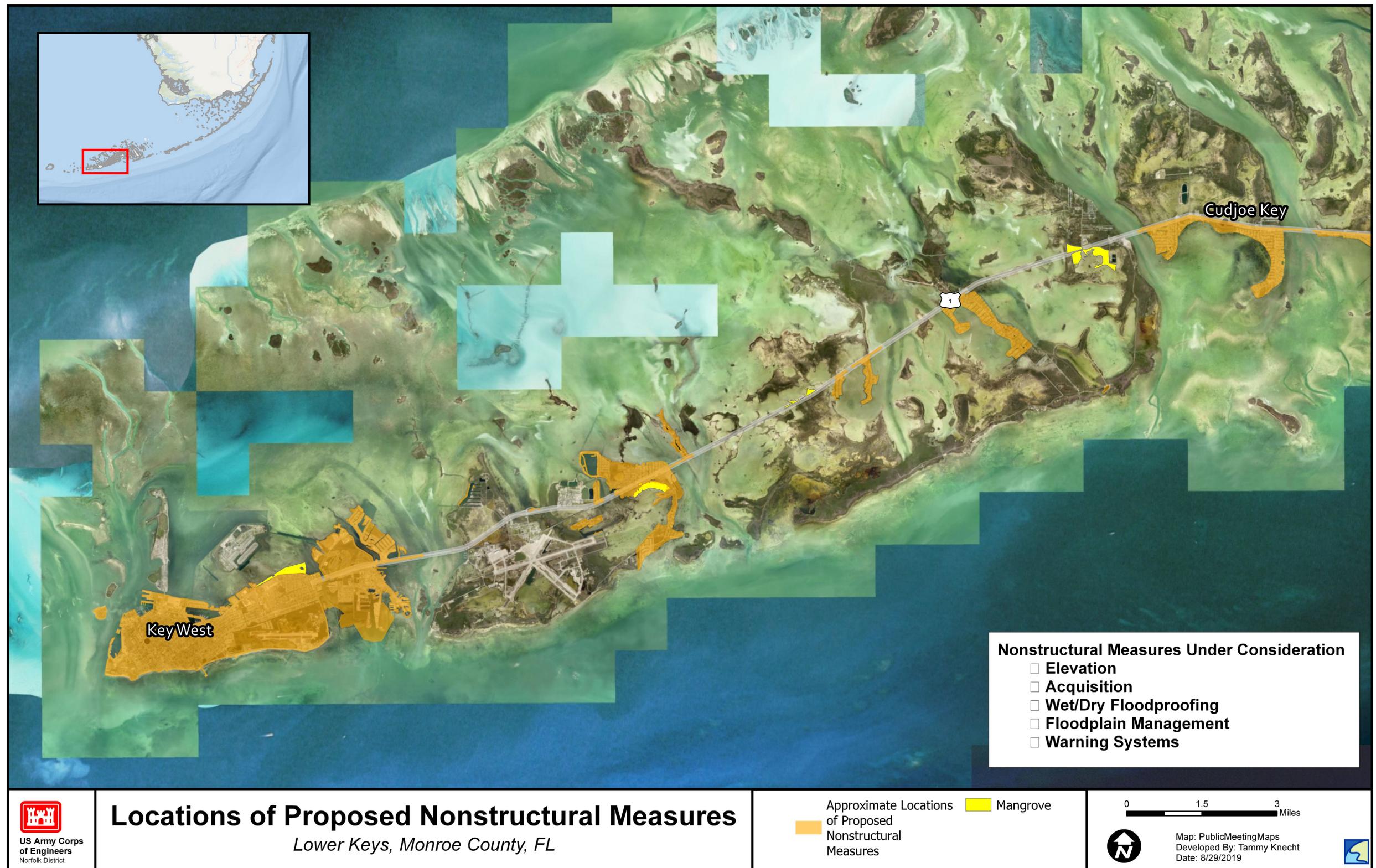


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PROPOSED NONSTRUCTURAL AREAS—LOWER KEYS

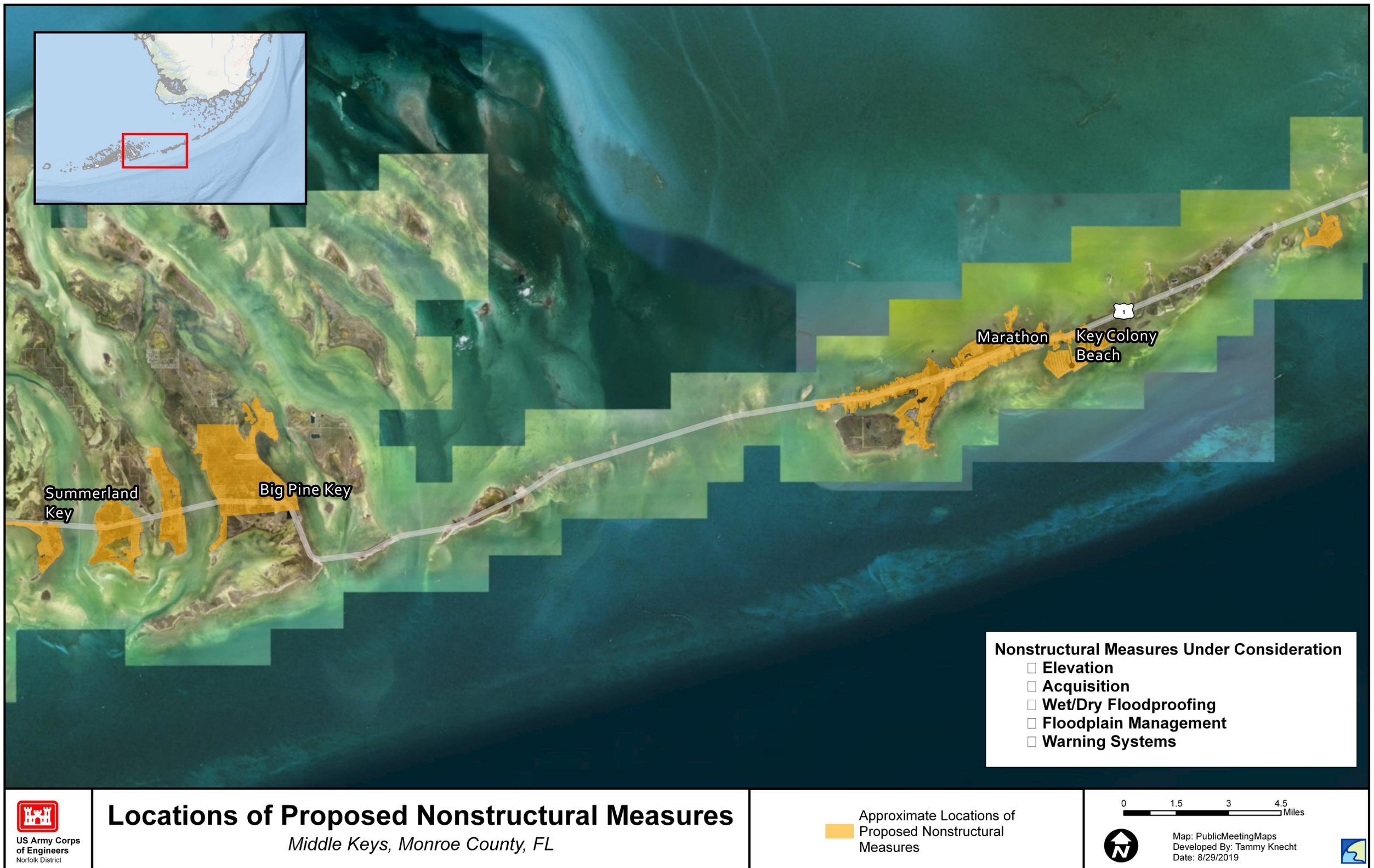


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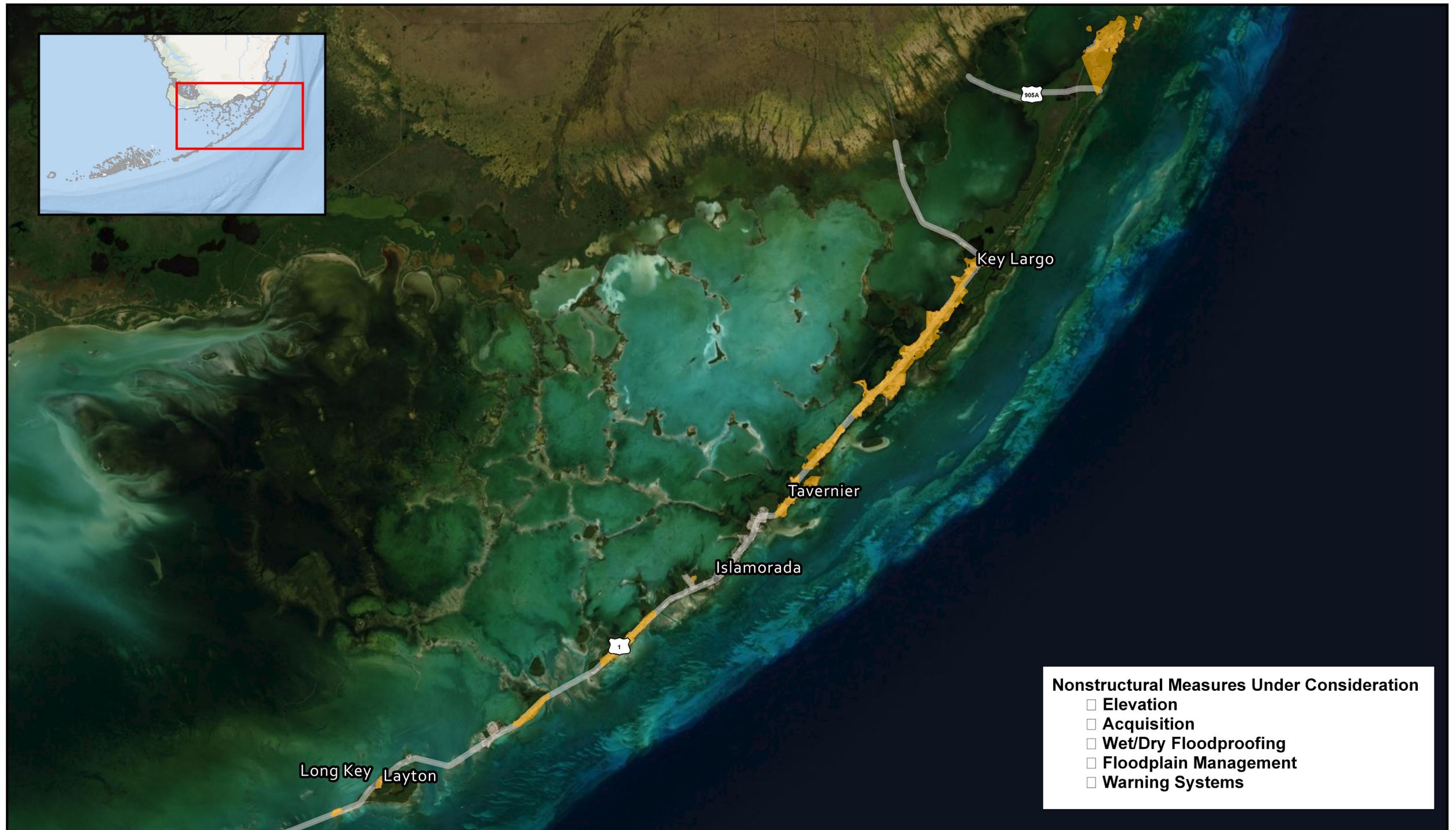


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PROPOSED NONSTRUCTURAL AREAS—MIDDLE KEYS



PROPOSED NONSTRUCTURAL AREAS—UPPER KEYS



- Nonstructural Measures Under Consideration**
- Elevation
 - Acquisition
 - Wet/Dry Floodproofing
 - Floodplain Management
 - Warning Systems



Locations of Proposed Nonstructural Measures

Upper Keys, Monroe County, FL

Approximate Locations of Proposed Nonstructural Measures

0 1.5 3 4.5 6 7.5 9 10.5 Miles

Map: PublicMeetingMaps
 Developed By: Tammy Knecht
 Date: 8/30/2019



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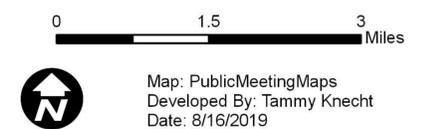
CRITICAL INFRASTRUCTURE—LOWER KEYS



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Critical Infrastructure Lower Keys, Monroe County, FL

- Potable Water Pumping Stations
- Wastewater Facility
- EOC Facilities
- H Health Care Facility
- School
- Fire Station
- ★ Police Station
- Airports
- Mangrove



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CRITICAL INFRASTRUCTURE—MIDDLE KEYS



Critical Infrastructure

Middle Keys, Monroe County, FL

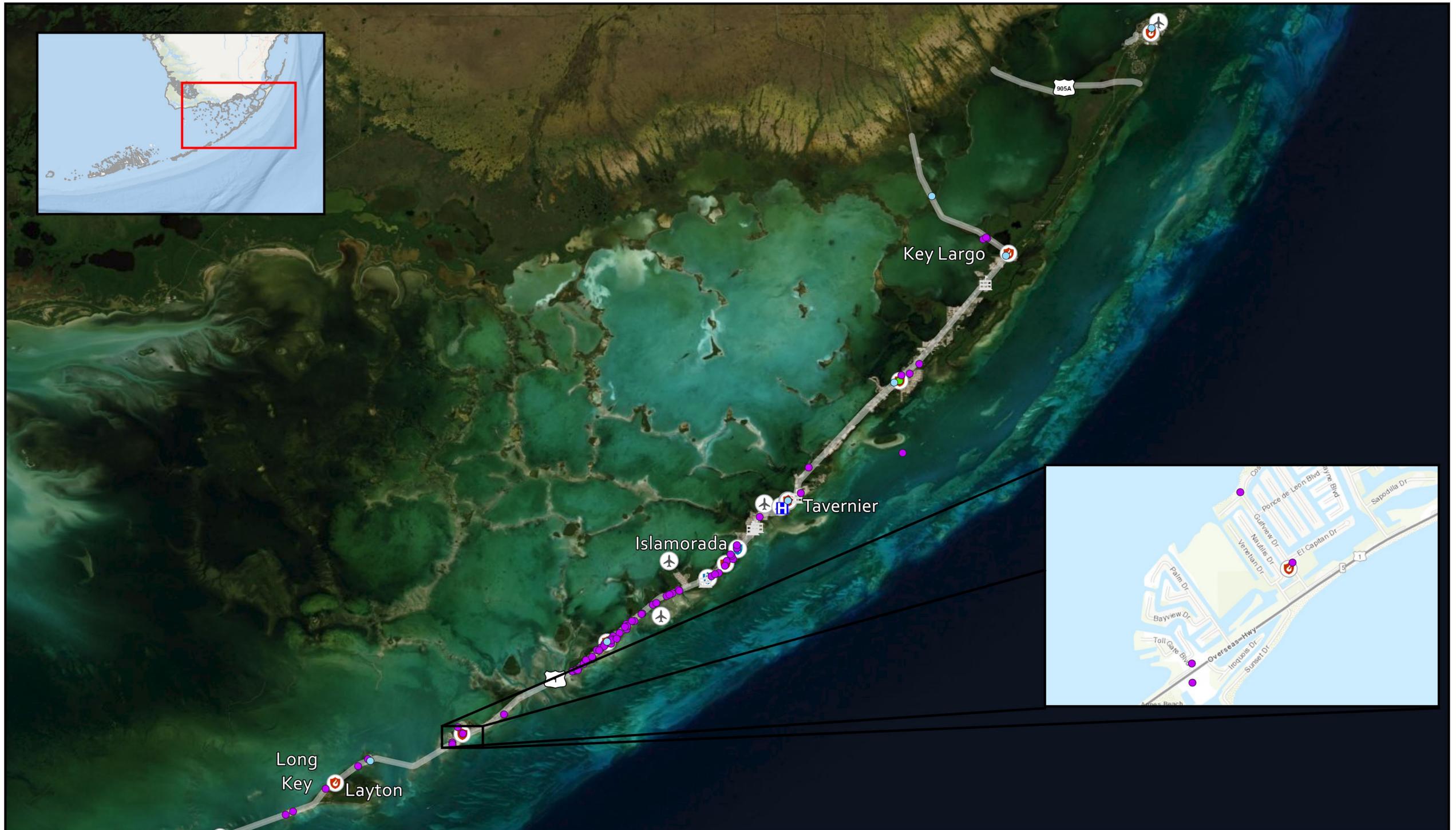
- Potable Water Pumping Stations
- Wastewater Facility
- EOC Facilities
- Health Care Facility
- School
- Fire Station
- Police Station
- Airports

0 1.5 3 4.5 6 Miles

Map: PublicMeetingMaps
 Developed By: Tammy Knecht
 Date: 8/16/2019



CRITICAL INFRASTRUCTURE—UPPER KEYS



Critical Infrastructure Upper Keys, Monroe County, FL

- Potable Water Pumping Stations
- Wastewater Facility
- EOC Facilities
- H Health Care Facility
- School
- Fire Station
- ★ Police Station
- Airports
- Mangrove

