



**US Army Corps
of Engineers**®
Norfolk District



MONROE COUNTY
FLORIDA

FLORIDA KEYS COASTAL STORM RISK MANAGEMENT FEASIBILITY STUDY

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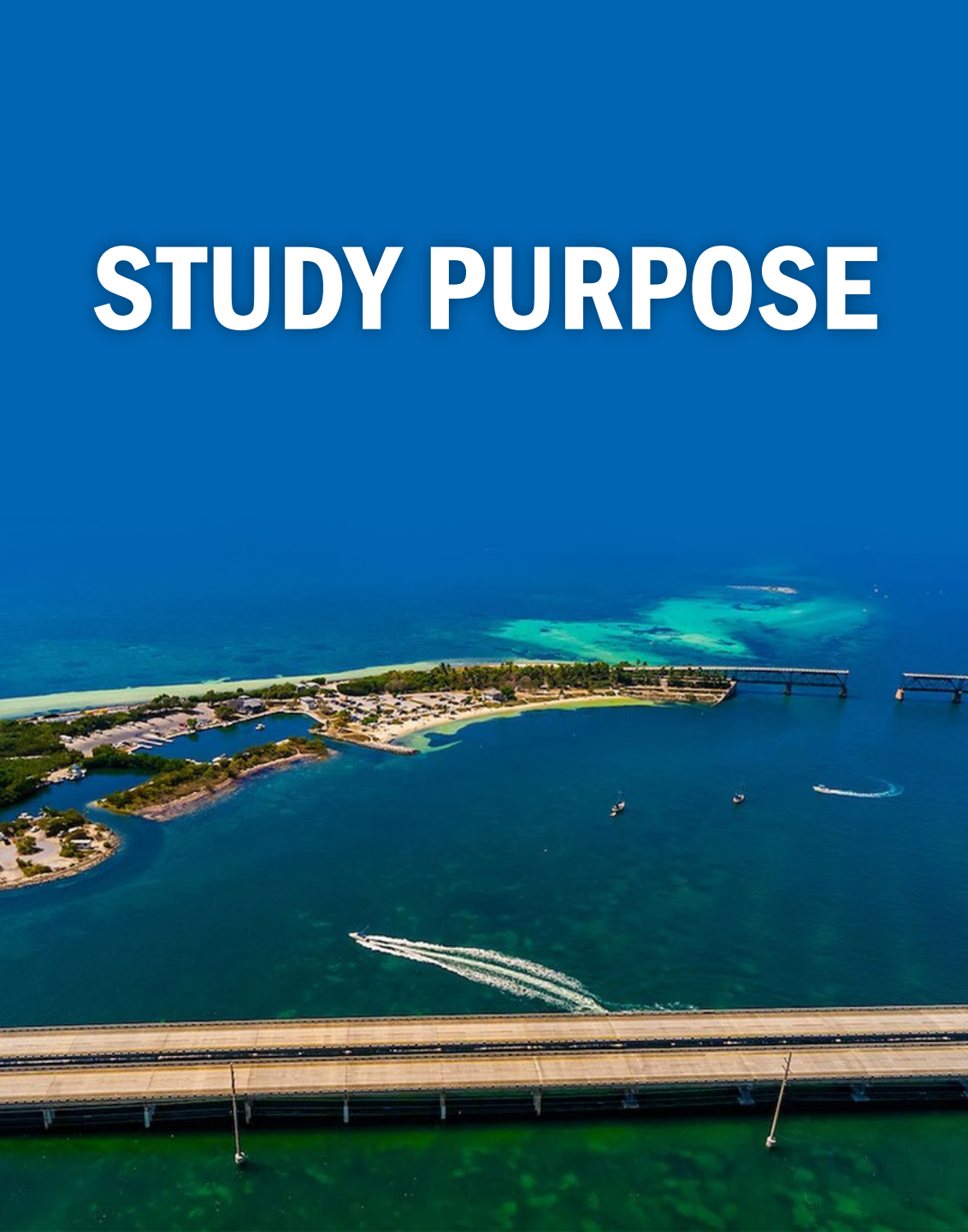
PURPOSE OF PRESENTATION



- Provide details on the Tentatively Selected Plan for the Florida Keys Coastal Storm Risk Management Study to the elected officials for each municipality as requested by the Monroe BOCC in May briefing
- USACE has held separate webinars with four of five municipality staff. Offered to all five municipalities.
- Monroe BOCC requested that USACE include municipality feedback in upcoming June briefing

STUDY PURPOSE

The Florida Keys Coastal Storm Risk Management Study is investigating solutions that will improve resiliency by reducing damage and risk from impacts of coastal storms taking into account sea level rise.



3 Year SMART Feasibility Study Process: Florida Keys CSRM



TENTATIVELY SELECTED PLAN

ALTERNATIVE 7: Tentatively Selected Plan

- U.S. 1 shoreline stabilization (revetment) in 6 areas
- Nonstructural measures for residential and non-residential structures at risk:
 - Elevation of residential properties
 - Floodproofing of commercial properties
 - Acquisition of residential properties
- Floodproofing critical infrastructure at risk

ESTIMATED PROJECT COSTS*:

- First Cost (65/35): ~\$3,800,000,000**
 - 65% federal funding of project = \$2,470,000,000
 - 35% non-federal funding of project = \$1,330,000,000
- Total Average Annual Benefit: ~\$215,466,000**
- BCR is 2.45**

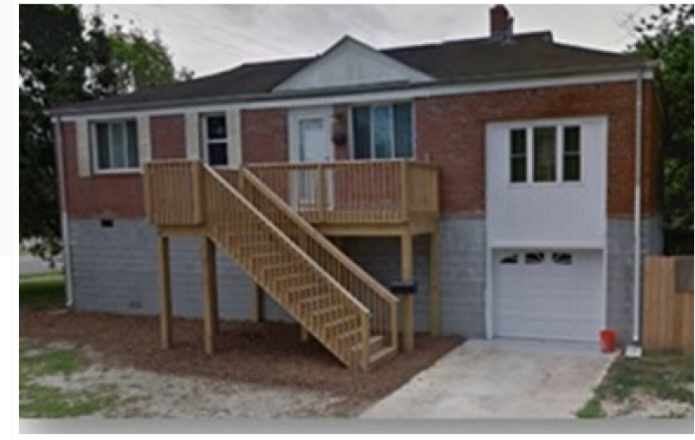
* These numbers WILL continue to evolve as more detailed costs are developed.

NONSTRUCTURAL MEASURES UNDER ALTERNATIVE 7

Reduce storm damage to structures identified at risk by implementing one of the following measures based on structure type and risk:

Residential Nonstructural Measures

- Elevation
- Acquisition



Non-Residential Nonstructural Measures

- Floodproofing of commercial properties and critical infrastructure



NONSTRUCTURAL MEASURES UNDER ALTERNATIVE 7



The Draft Report will recommend*:

- 7,100 Elevation (residential)**
 - Total cost: \$1,942,574,092
 - 7,124 structures

- 3,900 Floodproofing (non-residential)**
 - Total cost: \$812,278,416
 - 3,852 structures

- 300 Acquisition (residential):**
 - Total cost: \$290,503,227
 - 286 structures

*These numbers are approximate and subject to change before the Final Report. The analysis would also be updated in the design phase to account for continually evolving environmental conditions

NONSTRUCTURAL MEASURES UNDER ALTERNATIVE 7



City	Acquisition	Elevate	Floodproof	Grand Total
ISLAMORADA	1	542	288	831
KEY COLONY BEACH	56	253	48	357
KEY WEST	95	2,324	1,883	4,302
LAYTON	2	31	18	51
MARATHON	84	1,003	611	1,698
UNINCORPORATED MONROE	48	2,971	1,004	4,023
GRAND TOTAL	286	7,124	3,852	11,262



NONSTRUCTURAL MEASURES UNDER ALTERNATIVE 7



- Current USACE policy requires that acquisition must be implemented, even if it requires the use of eminent domain
- Monroe County will not support a plan with mandatory acquisition and has submitted a formal request to USACE for a waiver from the current policy
- Waiver request must be approved by the Secretary of the Army for Civil Works and it is uncertain when a decision will be made
- Draft report will not include addresses, maps, etc. identifying homes recommended for acquisition in the TSP
- If no decision or request is denied by the Agency Decision Milestone in October, County would likely choose a Locally Preferred Plan



Locally Preferred Plan (LPP) Option

- ❑ County will likely choose a Locally Preferred Plan if their request for a waiver from the mandatory acquisition policy is not approved
- ❑ Any economically justified options can be combined into a Locally Preferred Plan
 - If increase in cost, county pays the difference
 - If equal or decrease in cost, cost share stands at 65/35
- ❑ Examples of a possible LPP include
 - Removal of acquisition at ~ \$290,000,000
 - Substitution of elevations for acquisitions, 225 of 286 structures recommended for acquisition have positive BCR for elevation
 - Removal of acquisition and/or elevation instead of acquisition only in Municipalities that would not support it

Follow-on Actions



- USACE will brief Councils of each municipality and gather feedback regarding their support for the TSP that includes acquisition**
- USACE will brief BOCC at June 17th meeting**
- Continue to coordinate County waiver request for acquisition policy**
- Draft report released June 26th**
- 45 day public and agency review of draft report**
- Virtual meetings and virtual “office hours” will be held for the public in July**

NEXT STEPS



Date	Task
May 2020	Briefing to Monroe BOCC
Late June 2020	Draft Feasibility Report and Integrated EIS release
Early July 2020	Virtual public engagements held via webinar and open office hours
June – July 2020	45 day review: public and agency, internal USACE technical and policy review, Independent External Peer Review (contract)
October 2020	Agency Decision Milestone
Spring 2021	USACE update back to Monroe BOCC
Spring 2021	Final Feasibility Report and Integrated EIS release
September 2021	Chief of Engineer's Report
Beyond 2021	Congressional authorization for construction Potential project appropriations Agreements with non-federal entities necessary for construction

QUESTIONS, COMMENTS & DISCUSSION

