

COMMUNITY DEVELOPMENT BLOCK GRANT –MIT
HURRICANE IRMA FUNDING PROPOSAL

GENERAL PLANNING SUPPORT
FLORIDA KEYS REGIONAL RESILIENCE
PLAN AND NEIGHBORHOOD
LIVABILITY OUTREACH AND
PLANNING

JULY 30, 2020

MONROE COUNTY
BOARD OF COUNTY COMMISSIONERS
2798 OVERSEAS HIGHWAY
MARATHON, FLORIDA 33050



RHONDA HAAG
CHIEF RESILIENCE OFFICER

Date:

Rebuild Florida CDBG - Mitigation General Planning Support Program Application

Official Project Title

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Applicant Information

Official Applicant Entity Name:		FEIN #:	
Primary Project Contact Name:		DUNS #:	
Title:		E-mail:	
Mailing Address:			Phone Number:
City:	State:		Zip Code:
Please list co-applicant entities if any:	Contact Person:	E-mail Address:	

Project Description (2,500 word limit)

Write an overview/summary of the project being proposed:
 1) State the project purpose, area of benefit and a description of the proposed activity. 2) Specify the risk(s) that will be mitigated by completion of this project. 3) Describe how the work will be done and the team that will do it. 4) Explain the method used to determine project funding requirements. 5) Describe anticipated outcomes. 6) Has a comprehensive plan already been created? If yes, describe how the proposed plan or activity will integrate with the comprehensive plan and attach the Executive Summary of the comprehensive plan.

Insert Attachment:		Please title zip folder: EntityNamePD_GPS
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Community Value (1,500 word limit)

Describe: The project's value to the community in normal circumstances and in times of natural disasters. Include: The community lifelines served this project; How the project enhances community resilience; Public notice of the planned project; and Community involvement in the project planning process.

Insert Attachment:		Please title doc: EntityNameCV_GPS
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Capacity Plan (1,500 word limit)		
<p>Provide a strategic plan overview that addresses goals, stakeholders, the work plan, (major tasks and deliverables), resources (staffing and budget) and monitoring/quality controls. Identify the staff members who will be responsible and/or positions that will be filled for the GPS project management and maintenance. Provide a short profile on each person on your current staff who perform project-related tasks and a position description for any new hires who will be assigned to project work. If your project will require specific tools or skilled personnel, such as mapping do you have the capabilities and the staff to complete your plan? Attach a Word document with the planning team's CV/resumes into the zip folder. Describe the circumstances under which this plan will be updated and detail how subsequent updates will be funded.</p>		
Insert Attachment:		Please title zip folder: EntityNameCP_GPS

Implementation Plan		
<p>Use the Implementation Plan Template provided in Appendix D to prepare a chronological timeline for the entire life of the project that organizes work into logical, manageable tasks and deliverables.</p>		
Insert Attachment:		Please rename template: EntityNameIP_GPS

Budget		
<p>Include your project budget using the Budget Worksheet provided as Appendix E (and in the GPS Application, Appendix A). Ensure your budget is reasonable, appropriate and accurate. Are the budgeted items consistent with the project description and tasks? Does the amount requested fall within the GPS's allowable minimum (\$20,000) and maximum (\$10,000,000)? Ensure there is no duplication of benefits.</p>		
Insert Attachment:		Please rename template: EntityNameBudget_GPS
Is there any duplication of benefits?	Yes: <input type="checkbox"/>	No: <input type="checkbox"/>
<p>All funds identified for use on your project must be fully disclosed and detailed to ensure budget accuracy and no duplication of benefits.</p>		
Will funding – other than CDBG-MIT funding – be used to fund this project? If yes, detail the anticipated or committed funds in the Leveraged Dollars section.	Yes: <input type="checkbox"/>	No: <input type="checkbox"/>

Public Notice Requirement

Units of General Local Governments (UGLG) must receive public input on their application by abiding by one or both of these new notice formats:

1. Post information about the project online: Post the information about your project to your public website and allow for a 14-day public comment period. State the type/s of project/s to be undertaken, the source, the amount of funding available for the activities, the date by which comments must be made, and a contact person for a copy of the proposed application. Please submit a copy of the post and any public comments to DEO by submitting an attachment below.
2. Host a virtual public meeting: Applicants should supply the same documentation that would normally be required to demonstrate that a meeting was held, including minutes and a public meeting notice. The notice should be posted in a newspaper of general circulation and to your UGLG website. State the type/s of project/s to be undertaken, the source, the amount of funding available for the activities, the date by which comments must be made, and a contact person for a copy of the proposed application. Applicants must provide for a 10-day comment period, which must be published prior to the submission of the application.

Evidence of the public notice must meet the following requirements:

- Documentation of newspaper advertisement.
- Print-out of UGLG webpage showing public notice.
- Documentation that the needs of non-English speaking citizens have been met wherever a significant number of non-English speaking citizens might be reasonably expected to participate. In this case, documentation will need to be translated into Spanish and Haitian Creole.

Evidence of a public meeting with city and tribal governments must meet the following requirements:

- Notice of the public meeting must be provided at least five days prior to the meeting.
- Documentation of a meeting must include sign-in sheets and minutes.

Prior to submitting an application for CDBG-MIT funding, applicants are required to select their public notice format (choice #1 and/or #2 above) and upload the required documents.

In addition to following these instructions please include relevant notice dates on your Implementation Plan template. Applications will not be complete until Public Notice requirements are fulfilled. All Public Notice evidence must be submitted to DEO, by attaching documents to this application, before the application close date of July 31st.

Leveraged Dollars

If your project involves the qualified use of matching or leveraged funds or services, describe the specifics of leveraged fund/service usage. Are there local or other funds available to address the proposed project in whole or in part? If yes, report all sources of funding and the amount available. Disclose sources and uses of non CDBG-MIT funds. What other federal, state and/ or local entities have you contacted concerning funding for the proposed project and what were the results? Put "N/A" if this section is not applicable to your project.

Compliance

According to 84 FR 45838 August 30, 2019 Section V.A.(18), "The State shall make reviews and audits, including on-site reviews of any subrecipients, designated public agencies and local governments, as may be necessary or appropriate to meet the requirements of section 104(e)(2) of the HCDA, as amended, as modified by this notice. In the case of noncompliance with these requirements, the State shall take such actions as may be appropriate to prevent a continuance of the deficiency, mitigate any adverse effects or consequences, and prevent a recurrence. The State shall establish remedies for noncompliance by any designated subrecipients, public agencies, or local governments."

Can you certify to comply with state and federal register regulations as outlined in 84 FR 45838?

Yes:

No:

Sign and Date

As the primary entity contact for this project, I certify:

- A. All staff, contractors, vendors and community partners of our mitigation initiative:
 1. Will comply with all HUD and Florida requirements in the administration of the proposed CDBG-MIT funded activities;
 2. Will work in a cooperative manner to execute the Subrecipient Agreement that provides the pathway for successful CDBG-MIT program(s) and/or project(s) and;
- B. All information submitted in this Application is true and accurate.

Signature:

Date:

Print button will only print application and not attached documents. Submit button will deliver application to email to the cdbg-mit@deo.myflorida.com. Please attach all relevant documents to this email.

Print Application

Submit Application

Community Development Block Grant-Mitigation Program

Florida Keys Regional Resilience Plan and Neighborhood Livability Outreach and Planning

Project Description

Project Purpose

The Florida Keys is among the most vulnerable communities in the nation to rising sea levels, with a 120-mile archipelago of islands. Most neighborhoods, critical facilities, and infrastructure are at or near sea level.

The purpose of the Regional Resilience Plan is to benefit all **six** Keys local governments in a three-phased flooding and sea level rise resilience strategy that is based upon data driven outcomes for high quality mitigation planning. Phase I will finalize the collection and integration of mobile, street level LiDAR Data for each of the municipal jurisdictions (note: Monroe County data collection is complete). The second phase will develop infrastructure vulnerability analysis based upon the collected LiDAR data for the five municipal jurisdictions and incorporating the reduction of risk to community lifelines. Following, in the third phase, is a neighborhood livability outreach and planning for up to six high risk, low income neighborhoods, with repetitive loss structures that will be selected from the vulnerability analysis prioritization and integrate the data, vulnerability analysis, and design solutions on a neighborhood level to achieve cost beneficial solutions.



To date, Monroe County and the five municipal jurisdictions have not coordinated to build a unified comprehensive regional strategy for resilience. Most of our municipalities lack the funding and staff resources to address these mounting threats of flooding and sea level rise. In addition, a coordinated regional approach to these challenges in the keys, that are unlike any seen on the Florida mainland, would be most cost effective and would yield multiple community benefits. The Regional Resilience Plan provides the foundation to unify the outcomes and solutions of flooding and a rising tide for all of the Florida Keys.

The United States Army Corps of Engineers (USACE) is currently conducting a simultaneous coastal storm risk management feasibility study to evaluate impacts of sea level rise on the cost of the Florida Keys. It is vital to note, however, that the USACE’s study does not evaluate the impact of sea level rise on local roadways. Maintaining access to residential neighborhoods is at the core of this analysis and will not be considered by the USACE Study.

The US Army Corps of Engineers coastal storm risk management feasibility study does not evaluate sea level rise inundation of local roadways, or provide for any road elevations. Communities within the Florida Keys must understand how roadways will impacted in order to understand the ongoing viability and access to

Area Benefit

This regional project will benefit all jurisdictions in Monroe County including all five municipal governments and unincorporated Monroe County. The jurisdictions which have endorsed this project include:

- Key West
- Marathon
- Islamorada (TBD)
- Layton
- Key Colony Beach
- Unincorporated Monroe County

Description of Activity

The Regional Resilience Plan will include three (3) phases:

- **Phase I: GIS LiDAR Data Collection – (Cities Only)**
Collect LiDAR elevation survey data for 249 miles of locally maintained roads in the five municipalities of Monroe County.
- **Phase II: Vulnerability Analysis and Planning: (Cities Only)**
Identify water inundation levels over time, and it’s effect on critical services and lifelines (roads, critical facilities). This analysis will include policy guidance for implementation of resilience strategies as well as prioritized recommendations for road elevation and closely associated critical infrastructure.
- **Phase III: Neighborhood based Resilience Planning: (County Only)**
Select up to six (6) high risk and low-income neighborhoods across all jurisdictions as case studies to identify resilience related solutions, functionality, and quality of life issues specific to each.

Risk Mitigated

Surrounded by the waters of the Atlantic Ocean and Gulf of Mexico most homes, businesses, infrastructure and facilities are at or near sea level in the Florida Keys. The County and cities maintain hundreds of miles of local roads, some of which routinely experience sea level rise, during the fall “king tide” season. Neighborhoods and

businesses throughout this island chain have experienced anywhere from a few inches to a foot or more of sea water on low coastal roads, lasting from a few days to weeks or even months.

Monroe County has been analyzing their infrastructure needs for the past decade, leading to one of their first work products, their 5-year Sustainability and Resilience action plan (Greenkeys.info). Following this plan, the County has been actively identifying and filling data gaps to determine community inundation over time.

Initial evaluations revealed a variety of overlapping conditions including: onshore winds, heavy rains, and astronomically significant tides, which acted together, to make some secondary roads impassable.



Monroe County then prioritized two pilot projects for roads elevation and storm water drainage improvement. These two low-lying neighborhoods were inundated for months during the 2016 King Tides, one of them making national headlines for 90 days of inundation. One island neighborhood experienced varying levels of deep water on their roads for more than 90 days straight in 2019, daily impacting residents' access to and from their homes, especially the elderly and handicapped. This neighborhood and others in the Keys have garnered national and international media

attention to their plight of the rising seas.

These Road Elevation Pilot Projects will reveal the many tradeoffs involved with elevation and improving drainage in the Keys, especially regarding costs. The project merges climate change science / modeling, with transportation engineering / planning to develop a long-term roads and neighborhood adaptation plan based on transparent levels of design criteria, sea level rise projections, and adaptation methodology. It brings climate change science to the local level, building upon previous efforts, and also bringing together policy, science, engineering, finance and planning aspects. The results will help prepare valuable assets such as the County's roadway infrastructure for the current and future impacts of climate change. The outcomes of this project will include a detailed Implementation Work Plan for long-term road infrastructure adaptation projects to prepare for sea level rise.

The residents and businesses of the five municipalities located in the Florida Keys are just as vulnerable to the rising seas. However, because they are small and were heavily impacted by Hurricane Irma in 2017, these municipalities have been unable to afford the level of resilience planning work the County has implemented. Despite their willingness to partner with the county on such work, the financial burden has been too great.

Therefore, this grant application includes two phases of work to support resilience planning for local neighborhoods in the five municipalities in the County (Phase 1 and



Phase 2). By first receiving the road based LIDAR elevation data (Phase 1) and then superimposing the predicted sea level rise levels in the vulnerability study (Phase II) communities are able to develop capital improvements and road planning policy based upon the vulnerability analysis. This may include modifications to zoning and land use maps to make land use and spending decisions. The project will provide a detailed regional resilience plan for neighborhoods and will cover every mile of local roadway from the

northern tip of the Keys to the southernmost tip in Key West.

In addition, up to six of the most vulnerable neighborhoods in the County will be selected for pilot projects to provide a detailed analysis of specific sea level rise adaptations for their neighborhood in Phase 3. Frequent and in-depth community meetings will be held to not only communicate the potential alternatives of road elevations and storm water drainage improvements needed in their neighborhood, but to learn about and understand the needs and limitations of the residents affected by these infrastructure adaptations. Detailed analyses will be conducted of the conditions of the local roadways; availability of land for wider and elevated roads; potential size and placement of drainage structures; potential consequences of higher roads such as difficulty of access for the handicapped and elderly and loss of yard space and loss of walkability to and from their homes; benefits of higher roads including longer term access to their homes and potential recreational possibilities from new green space, impact on historical and cultural resources. Finally the potential costs to the County and the residents to maintain newly elevated roads will be presented. The research on these pilot neighborhoods studies will provide needed and important information for the County's and municipalities' future grant applications to help fund the anticipated billions of dollars in design and construction costs of the much-needed roadway improvements.

Keys-wide Collaboration

The Regional Resilience Plan will be led by a Leadership Team, consisting of each of the jurisdictions representing a diverse range of expertise including the following:

- Monroe County: Rhonda Haag, Chief Resilience Officer
- Key West: Alison Higgins, Chief Resilience Officer
- Marathon: George Garrett, Assistant City Manager
- Islamorada: Seth Lawless, City Manager
- Layton: Skip Haring

- Key Colony Beach: Chris Moonis¹

Supporting resolutions from each of the cities has been included in the Capacity Plan Chapter.

Due to the large number of stakeholders, this coordination effort will be extensive and vitally important. Monroe County will coordinate and manage the project and be the CDBG-MIT GPS sub applicant and administer the grant funds in compliance with HUD and DEO requirements. The Leadership Team will report directly to the County. At a minimum, the Leadership Team will coordinate vendor acquisition and other contractual support, review work products, co-host public engagement activities within their jurisdiction, and prioritize neighborhood case studies..

Work Plan

Monroe County is especially suited to lead the Regional Resilience Plan project due to extensive climate change work over the last decade:

- **Data:** Unincorporated Monroe County recently completed \$531,000 of mobile LiDAR elevation data for its 311 miles of county-maintained roads. The County then contracted with an experienced team of science and engineering consultants to conduct a \$1.9 Million Vulnerability Analysis that combines the LiDAR roads elevation data with projected sea level rise conditions. This grant applications hopes to receive funding to emulate this effort for the 5 municipalities.
- **Pilot Projects:** When the 2016 King Tides proved unbearable for two low-lying neighborhoods, the County approved two pilot projects for neighborhood resilience, which included the elevation of the road and storm water drainage improvement. These projects are providing important information regarding design and construction of road elevations in the Keys and provide important information about potential costs.
- **Planning for the Future:** Monroe County has developed data, projection models, plans, and pilot programs to build the resilient infrastructure of tomorrow and mitigate inadequate, aging structures. In 2016, the County began its implementation of the *GreenKeys* Plan, which outlines specific actions for long-term community resilience. In addition, the County adopted goals, objectives and policies into its *Comprehensive Plan* to consider new vulnerabilities. Also, the Florida Keys limits development through local ordinances required by state law to ensure safe evacuation in advance of a hurricane. In 2023, the Keys are projected to be at maximum development capacity, which will present legal



¹ Note: The participation of Key Colony Beach is continuing to be negotiated.

challenges for both the state and local governments when private landowners cannot develop their land.

- Advanced Methodologies and Technologies:** The 2015 *Monroe Countywide Local Mitigation Strategy* (LMS) recognizes future scenarios for increased flood risk due to sea level rise and will be updated in 2020 to incorporate mitigation measures gained over the past four years through resiliency planning efforts. Recently, Monroe County received a grant from the *Florida Department of Environmental Protection* to develop *Adaptation Action Areas* that target programs for infrastructure and nature-based resiliency, land acquisition and voluntary buyouts, business mitigation assistance prioritizing the designated Opportunity Zone, hardening or the restoration of shorelines with natural vegetation, the elevation of homes and other critical public facilities, and potential resiliency regulations for private developments to accommodate current and future flood risk.

Project Funding

- Phase I: GIS LiDAR Data Collection – (Cities Only)**
 Collect LiDAR elevation survey data for 249 miles of locally maintained roads in the five municipalities of Monroe County. The total cost for this phase is **\$572,500**

	Mileage	Budget
Islamorada	69	\$ 130,000
Key West	93	\$ 280,000
Marathon	78	\$ 147,000
Layton	2	\$ 4,000
Key Colony Beach	7	\$ 11,500
Total	249 Miles	\$572,500

- Phase II: Vulnerability Analysis and Planning: (Cities Only)**
 The vulnerability analysis will identify where the water inundation will be within various points of time, and how much the water will rise affecting critical services and lifelines (roads, critical facilities). The total cost for this phase is estimated at **\$ 1,975,000**

Phase II Funding Allocation Request by Jurisdiction	Mileage	Budget
Islamorada	69	\$416,7718
Key West	93	\$561,734.94
Marathon	78	\$471,132.53
Layton	2	\$12,080.32
Key Colony Beach	7	\$42,281.13
Unincorporated Monroe County	NA	NA
Total	249 Miles	\$ 1,504,000

- Phase III: Neighborhood based Resilience Planning: (County Only)**
 Select up to 6 highest risk and low-income neighborhoods to identify resilience related challenges, functionality, and quality of life issues specific to each of the

pilot neighborhoods. The project is estimated at \$ **450,000**.

Phase III Funding Allocation Request by Jurisdiction	Mileage	Budget
Islamorada	NA	NA
Key West	NA	NA
Marathon	NA	NA
Layton	NA	NA
Key Colony Beach	NA	NA
Unincorporated Monroe County	311 Miles	\$450,000
Total		\$450,000

Total Budget Funding Request for the Project by Jurisdiction

Total Funding Allocation Request by Jurisdiction	Phase I	Phase II	Phase III	Total
Islamorada	\$130,000	\$416,771.08	\$ 0	\$546,771
Key West	\$280,000	\$561,734.94	\$ 0	\$841,735
Marathon	\$147,000	\$471,132.53	\$ 0	\$618,133
Layton	\$4,000	\$12,080.32	\$ 0	\$16,080
Key Colony Beach	\$11,500	\$42,281.13	\$ 0	\$53,781
Unincorporated Monroe	0	NA	\$450,000	\$450,000
Total	\$ 572,500	\$ 1,504,000	\$450,000	\$ 2,526,500

Anticipated Outcome

This Community Development Block Grant – Mitigation Program (CDBG-MIT) funding will allow Monroe County and all 5 municipal governments within to:

- Obtain and utilize high accuracy data as the underpinning to all decision making.
- Continue planning and policy development efforts to project sea level rise on island infrastructure and the environment, creating a Keys-wide plan for resilience.
- Prioritize and develop decision making criteria to elevate and improve stormwater along roadways that connect to critical evacuation routes including retention, drainage, and treatment to enhance water quality.
- Integrate protection, retreat and accommodation strategies for neighborhoods throughout Monroe County.
- Identify and prioritize critical infrastructure for relocating from low-lying areas; hardening it against future storms or flooding; or elevating it for future resilience.
- Identify and prioritize natural shorelines to protect inland areas and/or harden shorelines for resilience.
- Based upon the resulting data from the vulnerability analysis, policy priorities of the local leadership, and available financial support, identify neighborhoods to elevate or replace homes to mitigate the impacts of flooding and sea level rise.
- Identify homes for buyout within low-lying areas with repetitive loss properties or those that are not suitable for redevelopment.
- Continue to collaborate together to increase our resilience as a whole.

Comprehensive Plan Integration

The County will be initiating its Evaluation and Appraisal Report (EAR) process for updating its Comprehensive Plan in 2021. The County has drafted Peril of Flood amendments consistent with Chapter 163.3177, Florida Statutes and anticipates adopting Adaptation Action Areas as part of a recently awarded Resiliency Planning Grant from DEP. In order to effectively accomplish both of these goals, and update the Comprehensive Plan overall, the County needs the best available data which is fundamentally dependent on the Countywide Roads and Stormwater project. Without this data and this study, the County cannot accomplish its goal of prioritizing road and stormwater infrastructure projects that consider the project's useful life including establishing new level of service standards for infrastructure that account for future flood risk and sea level rise. Finally, accomplishing the goals, objectives and policies that exist now within the Comprehensive Plan is integrally linked to the Countywide Roads and Stormwater project. This project is crucial to effectively plan for the future of Monroe County in the face of climate change and sea level rise.

Drainage Element-

- Policy 1001.1.1- Water Quality Level of Service Standards - Minimum Water Quality:

All projects shall be designed so that the discharges will meet Florida State Water Quality/Quantity Standards as set forth in Chapters 62-3 and 62-302.530, F.A.C, incorporated herein by reference. All projects should be designed in accordance with the Florida Department of Transportation and South Florida Water Management District standards and **taking into account projections for climate change**. [F.S. § 163.3177(6)(c)]. Every three years, after the adoption of the 2030 Comprehensive Plan, Monroe County **shall review the standards for detention and retention volumes for surface water** to ensure they achieve minimum water quality standards

- Policy 1001.1.6- Within three years of the adoption of the 2030 Comprehensive Plan, Monroe County shall evaluate the need to complete an inventory and analysis of existing public drainage facilities within the County and associated flooding issues. [F.S. § 163.3177(6)(c)1, 2.]

Energy and Climate Element-

- GOAL 1502-Monroe County shall incorporate the best available data and science, into its policy and planning decisions for infrastructure, recognizing the uncertainty associated with long range climate change predictions.
- Objective 1502.1- In conjunction with future updates to the 2030 Comprehensive Plan and land development regulations, the County shall update the data and assumptions related to climate change impacts to infrastructure based on the latest scientific predictions and observed (monitored) impacts. Monroe County shall also

consider climate change impacts such as increased temperatures, sea level rise, potentially shifting habitat and ecosystem types and the need to withstand increased storm surge in evaluating public infrastructure decisions.

- Policy 1502.1.1-Prior to incorporating a new project to the Capital Improvements Element, Monroe County shall assure that it is reviewed for recommendations to increase resiliency and account for the impacts from climate change, including but not limited to, sea level rise and storm surge. Monroe County shall evaluate financial expenditures to fund repairs, reconditioning of deteriorating infrastructure and new infrastructure improvements within or proximate to vulnerable areas to manage public investments appropriately. Monroe County shall focus on level of service standards, as one of the points of analysis, to assure that infrastructure useful life and service expectations can be met in the face of climate change impacts.
- Policy 1502.1.5-Within five (5) years after the adoption of the 2030 Comprehensive Plan, Monroe County shall initiate an inventory of existing and planned infrastructure up to the 2030 horizon, based upon the vulnerability mapping identified in Policy 1502.1.4, for capacity to accommodate projected sea-level rise over the life expectancy of that infrastructure. Monroe County shall identify the infrastructure within those areas, its useful life and any retrofits or capital projects necessary to address the impacts of sea level rise. These strategies may include defense, accommodation, or and retreat projects, or not building planned infrastructure in vulnerable locations, to address the impacts of sea level rise. Monroe County will consider developing design criteria, in conjunction with a broader asset management planning process.
- Policy 1502.1.6-Within five (5) years after the adoption of the 2030 Comprehensive Plan, Monroe County shall consider incorporating a planning, design and permitting standard for infrastructure and public facilities that may include a sea level rise assumption of 3"—7" by 2030 as developed by the Southeast Regional Climate Compact. The County shall review and update sea level rise projections when new and pertinent data is available. (The 3"—7" by 2030 is based on a 2010 baseline — if adjusted to a 1992 baseline it would result in 6" to 10" by 2030 above the 1992 mean sea level).
- Policy 1502.1.7-Monroe County shall ensure that new, renovated and replacement public facilities and infrastructure, such as streets and bridges, water and wastewater treatment plants, police stations and fire stations, and any other public facilities that the County has authority over, are designed in a manner which considers the useful life of public facilities and infrastructure. The County shall also consider the potential impacts from climate change, including rising sea levels and shoreline stabilization needs, on its infrastructure and public facilities.
- Policy 1502.1.9-Monroe County shall coordinate with appropriate agencies to monitor changes to minimum road elevation standards which may be specific to Monroe County due to its unique exposure to climate change and sea level rise impacts. This could also include enhanced stormwater management requirements and resurfacing requirements for certain transportation segments.
- Policy 1502.1.10-Within five (5) years after the adoption of the 2030 Comprehensive Plan, Monroe County shall review land development regulations

that address stormwater management considerations for sea level rise impacts. To the extent practicable, Monroe County shall incorporate green infrastructure or passive alternatives that maximize land preservation over impervious or "active" infrastructure. Such alternatives could include the reconditioning and reuse of septic tanks, increased use of rainwater harvesting techniques, such as cisterns and other water storage techniques. Monroe County shall determine if land development regulation amendments are needed to address increased retention requirements and other topographic or infiltration considerations which may influence stormwater management requirements. Monroe County shall also consider the ability to meet water quality requirements related to stormwater management regulations and if there are any impacts from climate change that may jeopardize the County's ability to meet those requirements.

- Policy 1503.4.2-In coordination with the next update to emergency management policies, Monroe County shall determine any impacts to hurricane evacuation timeframes exacerbated by a 3"—7" increase in sea-level rise by 2030 on transportation facilities.

An Executive Summary of the Comprehensive Plan is attached below.

Attachment 1: Executive Summary of the Comprehensive Plan

1.0 - INTRODUCTION AND BACKGROUND

Introduction:

Monroe County includes the Mainland area and over 1,700 islands which lie along the Florida Straits, dividing the Atlantic Ocean to the east from the Gulf of Mexico to the west, and defining one edge of the Florida Bay. The mainland part of the County is made up of the Everglades National Park and the southern portion of Big Cypress National Preserve. The Florida Keys extend 233 miles southwestward in a gradual arc from Biscayne Bay to the Dry Tortugas in the Gulf of Mexico.

The Florida Keys, that are within Monroe County, are a chain of islands connected by 112 miles of US Highway 1, extending from Key Largo to Key West, representing the most southerly point of the continental United States. The surrounding water is designated as an Outstanding Florida Water and includes the Florida Keys National Marine Sanctuary, the second largest marine sanctuary in the United States.

As low lying islands (90 percent of the land mass is at five feet above sea level or less), the Florida Keys are particularly vulnerable to the impacts of sea level rise and storm surge. The tide gauge at Key West has been measuring sea levels since 1846; it shows the sea level rose 9 inches (22 cm) in Key West during the last 100 years.

The regional and statewide resources of the Florida Keys prompted its designation by the Administration Commission as an Area of Critical State Concern in December, 1975 and the Florida Legislature in 1979 (Section 380.0552, F.S.). The Florida Keys are the location of North America's only coral reef and the third largest coral reef system in the world. The Keys are also home to over 30 species of threatened and endangered species and is one of the most ecologically diverse ecosystems in the United States. The designation is intended to protect environmental or natural resources of regional or statewide importance, the historical or archaeological resources and the major public facilities and area of major public investment.

Federal and State government involvement in Monroe County (the "County") land use planning and decision-making is extensive due to the presence of these aquatic and terrestrial resources that are of regional and national significance. This involvement has heavily influenced the County's comprehensive planning process. Many of the County's goals, objectives, and policies have been mandated by the State pursuant to the Area of Critical State Concern designation.

a. Florida Statutes:

In addition to those regulatory requirements established within Chapter 163, F.S., all planning and development within the Florida Keys must be consistent with Sections 380.05 and 380.0552(7), F.S., Principles for Guiding Development. These statutory requirements, cited below, were adopted by the Florida Legislature and are specific for the Florida Keys area.

380.0552(7), F.S. - PRINCIPLES FOR GUIDING DEVELOPMENT.

State, regional, and local agencies and units of government in the Florida Keys Area shall coordinate their plans and conduct their programs and regulatory activities consistent with the principles for guiding development as specified in chapter 27F-8, Florida Administrative Code, as amended effective August 23, 1984, which is adopted and incorporated herein by reference. For the purposes of reviewing the consistency of the adopted plan, or any amendments to that plan, with the principles for guiding development, and any amendments to the principles, the principles shall be construed as a whole and specific provisions may not be construed or applied in isolation from the other provisions. However, the principles for guiding development are repealed 18 months from July 1, 1986. After repeal, any plan amendments must be consistent with the following principles:

- (a) Strengthening local government capabilities for managing land use and development so that local government is able to achieve these objectives without continuing the Area of Critical State Concern designation.
- (b) Protecting shoreline and marine resources, including mangroves, coral reef formations, seagrass beds, wetlands, fish and wildlife, and their habitat.
- (c) Protecting upland resources, tropical biological communities, freshwater wetlands, native tropical vegetation (for example, hardwood hammocks and pinelands), dune ridges and beaches, wildlife, and their habitat.
- (d) Ensuring the maximum well-being of the Florida Keys and its citizens through sound economic development.
- (e) Limiting the adverse impacts of development on the quality of water throughout the Florida Keys.
- (f) Enhancing natural scenic resources, promoting the aesthetic benefits of the natural environment, and ensuring that development is compatible with the unique historic character of the Florida Keys.
- (g) Protecting the historical heritage of the Florida Keys.
- (h) Protecting the value, efficiency, cost-effectiveness, and amortized life of existing and proposed major public investments, including:
 - 1. The Florida Keys Aqueduct and water supply facilities;
 - 2. Sewage collection, treatment, and disposal facilities;
 - 3. Solid waste treatment, collection, and disposal facilities;
 - 4. Key West Naval Air Station and other military facilities;
 - 5. Transportation facilities;
 - 6. Federal parks, wildlife refuges, and marine sanctuaries;
 - 7. State parks, recreation facilities, aquatic preserves, and other publicly owned properties;
 - 8. City electric service and the Florida Keys Electric Co-op; and
 - 9. Other utilities, as appropriate.
- (i) Protecting and improving water quality by providing for the construction, operation, maintenance, and replacement of stormwater management facilities; central sewage collection; treatment and disposal facilities; and the installation and proper operation and maintenance of onsite sewage treatment and disposal systems.
- (j) Ensuring the improvement of nearshore water quality by requiring the construction and operation of wastewater management facilities that meet the requirements of Sections 381.0065(4)(l) and 403.086(10) F.S., as applicable, and by directing growth to areas served by central wastewater treatment facilities through permit allocation systems.
- (k) Limiting the adverse impacts of public investments on the environmental resources of the Florida Keys.
- (l) Making available adequate affordable housing for all sectors of the population of the Florida Keys.
- (m) Providing adequate alternatives for the protection of public safety and welfare in the event of a natural or manmade disaster and for a post disaster reconstruction plan.
- (n) Protecting the public health, safety, and welfare of the citizens of the Florida Keys and maintaining the Florida Keys as a unique Florida resource.

b. Rule 28.20-100 F.A.C. - The Florida Keys Carrying Capacity Study and Work Program:

In 1996, the Governor issued Rule 28.20-100 (the "Rule"), a five-year work program for Monroe County (Florida Administration Commission Rule 28.20-100, 1996). The Rule required the completion of the Florida Keys Carrying Capacity Study (FKCCS) and its companion, the Carrying Capacity Impact Analysis Model (CCIAM). According to the Rule, the CCIAM was to be designed "... to determine the ability of the Florida Keys ecosystem and the various segments thereof, to withstand all impacts of additional land development activities." The U.S. Army Corps of Engineers and the Florida Department of Community Affairs (currently, the State Land Planning Agency) jointly sponsored the development of the FKCCS.

The FKCCS provided four main guidelines for future development in the Florida Keys:

1. *Prevent encroachment into native habitat. A wealth of evidence shows that terrestrial habitats and species have been severely affected by development and further impacts would only exacerbate an already untenable condition.*
2. *Continue and intensify existing programs. Many initiatives to improve environmental conditions and quality of life exist in the Florida Keys. They include land acquisition programs, the wastewater and stormwater master plans, ongoing research and management activities in the Florida Keys National Marine Sanctuary, and restoration.*
3. *If further development is to occur, focus on redevelopment and infill. Opportunities for additional growth with small, potentially acceptable, additional environmental impacts may occur in areas ripe for redevelopment or already disturbed.*
4. *Increase efforts to manage the resources. Habitat management efforts in the Keys could increase to effectively preserve and improve the ecological values of remaining terrestrial ecosystems. efforts throughout the Keys.*

In 2001, the National Research Council (NRC) conducted a review of the CCIAM; the report: *Florida Keys Carrying Capacity Study: Test Carrying Capacity Analysis Model, First Draft*. The NRC noted that, "...the Committee does not believe that the current version of the CCAM is ready to be used 'as an impact assessment tool to support regional land use policy decisions' or to provide 'an effective framework to determine whether scenarios fall within the carrying capacity of the Florida Keys, determined by a set of ecological, socioeconomic, and human infrastructure thresholds and criteria.'

However, the NRC report concluded that several of the modules can be used in their current state, or with moderate revisions, as tools to, "...help assess a limited set of environmental, socioeconomic, fiscal, and infrastructure impacts of land use change in the Florida Keys." The report noted that for the Terrestrial Module, "...issues of terrestrial habitat and species richness appear to be reasonably well addressed..." As stated in the *Final Report of the Florida Keys Carrying Capacity Study Implementation - Rule 28-20 Work Group, (2003)*, "...the terrestrial portion of the CCIAM was able to provide valid analyses and conclusions with respect to upland habitat. Science can forecast from previous data what the impacts of a trend would be into the future should things continue as they currently are and historically have been." Habitat fragmentation was clearly identified as a concern and concluded that, "Any further development in the Florida Keys would exacerbate secondary and indirect impacts to remaining habitat."

The FKCCS noted the critical importance of preventing further destruction of terrestrial habitats, stating, "Any further encroachment into areas dominated by native vegetation would exacerbate habitat loss and fragmentation", and concluded, "Development in the Florida Keys has surpassed the carrying capacity of upland habitats to maintain their ecological integrity." The FKCCS also recommended the County continue its land acquisition and restoration programs and suggested the following actions to guide future development:

1. "Prevent encroachment into native habitat.

2. Continue and intensify existing land acquisition programs, wastewater management, and restoration efforts.
3. If further development is to occur, focus on redevelopment and infill.
4. Increase efforts to manage the resources to effectively preserve and improve the ecological values of the remaining terrestrial ecosystems."

The FKCCS included specific implementation strategies such as, establishing a development allocation system that protects the "unique character of the Florida Keys", directs new development to areas with existing or planned wastewater systems, focuses upon infill and redevelopment, and ensures that the "...population should not exceed the ability of the community to have reasonable safety in the event of a major hurricane."

Over the years, the Rule has been amended (assigning new numbering each time) to recognize the progress made toward implementation of the tasks included within the initial Work Program. Currently, the tasks within Rule 28-20.140, F.A.C., focus upon continued implementation of the recommendations within the Carrying Capacity Study, and completion of Wastewater and Stormwater projects. In addition to the Work Program, the State has adopted reporting requirements for the County. Beginning November 30, 2011, Monroe County and the State Land Planning Agency annually reports to the Administration Commission (Commission) documenting the degree to which the work program objectives for the work program year have been achieved. The Commission considers the findings and recommendations provided in those reports and determines whether progress has been achieved.

Below are the Work Program tasks, as cited directly from the current (July, 2014) Rule:

WORK PROGRAM.

(a) Carrying Capacity Study Implementation.

1. By July 1, 2012, Monroe County shall adopt the conservation planning mapping (the Tier Zoning Overlay Maps and System) into the Comprehensive Plan based upon the recommendations of the Tier Designation Review Committee with the adjusted Tier boundaries.
2. By July 1, 2012, Monroe County shall adjust the Tier I and Tier IIIA (SPA) boundaries to more accurately reflect the criteria for that Tier as amended by Final Order DCA07-GM166 and implement the Florida Keys Carrying Capacity Study, utilizing the updated habitat data, and based upon the recommendations of the Tier Designation Review Committee Work Group.
3. By July 1, 2012, Monroe County shall create Goal 106 to complete the 10 Year Work Program found in Rule 28-20.110, F.A.C., and to establish objectives to develop a build-out horizon in the Florida Keys and adopt conservation planning mapping into the Comprehensive Plan.
4. By July 1, 2012, Monroe County shall create Objective 106.1 to adopt conservation planning mapping (Tier Maps) into the Monroe Comprehensive Plan based upon the recommendations of the Tier Designation Review Committee Work Group.
5. By July 1, 2012, Monroe County shall adopt Policy 106.1.1 to require the preparation of updated habitat data and establish a regular schedule for continued update to coincide with evaluation and appraisal report timelines.
6. By July 1, 2012, Monroe County shall adopt Policy 106.1.2 to establish the Tier Designation Work Group Review Committee to consist of representatives selected by the Florida Department of Community Affairs from Monroe County, Florida Fish & Wildlife Conservation Commission, United States Fish & Wildlife Service, Department of Environmental Protection and environmental and other relevant interests. This Committee shall be tasked with the

responsibility of Tier designation review utilizing the criteria for Tier placement and best available data to recommend amendments to ensure implementation of and adherence to the Florida Keys Carrying Capacity Study. These proposed amendments shall be recommended during 2009 and subsequently coincide with the Evaluation and Appraisal report timelines beginning with the second Evaluation and Appraisal review which follows the adoption of the revised Tier System and Maps as required above adopted in 2011. Each evaluation and appraisal report submitted following the 2011 evaluation and appraisal report shall also include an analysis and recommendations based upon the process described above.

7. By July 1, 2012 and each July thereafter, Monroe County and the Monroe County Land Authority shall submit a report annually to the Administration Commission on the land acquisition funding and efforts in the Florida Keys to purchase Tier I and Big Pine Key Tier II lands and the purchase of parcels where a Monroe County building permit allocation has been denied for four (4) years or more. The report shall include an identification of all sources of funds and assessment of fund balances within those sources available to the County and the Monroe County Land Authority.
8. By July 1, 2012, Monroe County shall adopt Land Development Regulations to require that administrative relief in the form of the issuance of a building permit is not allowed for lands within the Florida Forever targeted acquisition areas or Tier I lands unless, after 60 days from the receipt of a complete application for administrative relief, it has been determined the parcel will not be purchased by any county, State, federal or any private entity. The County shall develop a mechanism to routinely notify the Department of Environmental Protection of upcoming administrative relief requests at least 6 months prior to the deadline for administrative relief.
9. By July 1, 2012, in order to implement the Florida Keys Carrying Capacity Study, Monroe County shall adopt a Comprehensive Plan Policy to discourage private applications for future land use changes which increase allowable density/intensity.
10. By July 1, 2011, Monroe County shall evaluate its land acquisition needs and State and federal funding opportunities and apply annually to at least one State or federal land acquisition grant program.
11. By July 1, 2012, Monroe County shall enter into a memorandum of understanding with the Department of Community Affairs, Division of Emergency Management, Marathon, Islamorada, Key West, Key Colony Beach, and Layton after a notice and comment period of at least 30 days for interested parties. The memorandum of understanding shall stipulate, based on professionally acceptable data and analysis, the input variables and assumptions, including regional considerations, for utilizing the Florida Keys Hurricane Evacuation Model or other models acceptable to the Department to accurately depict evacuation clearance times for the population of the Florida Keys.
12. By July 1, 2012, the Florida Keys Hurricane Evacuation Model shall be run with the agreed upon variables from the memorandum of understanding to complete an analysis of maximum build-out capacity for the Florida Keys Area of Critical State Concern, consistent with the requirement to maintain a 24-hour evacuation clearance time and the Florida Keys Carrying Capacity Study constraints. This analysis shall be prepared in coordination with the Department of Community Affairs and each municipality in the Keys.
13. By July 1, 2012, the County and the Department of Community Affairs shall update the data for the Florida Keys Hurricane Evacuation Model as professionally acceptable sources of information are released (such as the Census, American Communities Survey, Bureau of Economic and Business Research, and other studies). The County shall also evaluate and address appropriate adjustments to the hurricane evacuation model within each Evaluation and Appraisal Report.

14. By July 1, 2012, the Department of Community Affairs shall apply the derived clearance time to assess and determine the remaining allocations for the Florida Keys Areas of Critical State Concern. The Department will recommend appropriate revisions to the Administration Commission regarding the allocation rates and distribution of allocations to Monroe County, Marathon, Islamorada, Key West, Layton and Key Colony Beach or identify alternative evacuation strategies that support the 24 hour evacuation clearance time. If necessary, the Department of Community Affairs shall work with each local government to amend the Comprehensive Plans to reflect revised allocation rates and distributions or propose rule making to the Administration Commission.
 15. By July 1, 2013, if necessary, the Department of Community Affairs shall work with each local government to amend the Comprehensive Plan to reflect revised allocation rates and distribution or propose rule making to the Administration Commission.
- (b) Wastewater Implementation.
1. By July 1, 2011, Monroe County shall annually evaluate and allocate funding for wastewater implementation. Monroe County shall identify any funding in the annual update to the Capital Improvements Element of the Comprehensive Plan.
 2. By December 1, 2013, Monroe County shall work with the owners of wastewater facilities and onsite systems throughout the County and the Department of Health (DOH) and the Department of Environmental Protection (DEP) to fulfill the requirements of Sections 403.086(10) and 381.0065(3)(h) and (4)(l), F.S., regarding implementation of wastewater treatment and disposal. This will include coordination of actions with DOH and DEP to notify owners regarding systems that will not meet the 2015 treatment and disposal standards.
 3. By July 1, 2011, Monroe County shall annually draft a resolution requesting the issuance of \$50 million of the \$200 million of bonds authorized under Section 215.619, F.S., and an appropriation of sufficient debt service for those bonds, for the construction of wastewater projects within the Florida Keys.
 4. By July 1, 2011, Monroe County shall develop a mechanism to provide accurate and timely information and establish the County's annual funding allocations necessary to provide evidence of unmet funding needs to support the issuance of bonds authorized under Section 215.619, F.S., and to assure the timely completion of work as necessary to fulfill any terms and conditions associated with bonds.
 5. By July 1, 2011, Monroe County shall evaluate its wastewater needs and State and federal funding opportunities and apply annually to at least one State or federal grant program for wastewater projects and connections.
 6. By July 1, 2011, Monroe County shall develop and implement local funding programs necessary to timely fund wastewater construction and future operation, maintenance and replacement of facilities.
 7. By December 1, 2013, the County shall provide a report of addresses and the property appraiser's parcel numbers of any property owner that fails or refuses to connect to the central sewer facility within the required timeframe to the Monroe County Health Department, Department of Environmental Protection, and the Department of Community Affairs. This report shall describe the status of the County's enforcement action.
- (c) Wastewater Project Implementation.
1. Key Largo Wastewater Treatment Facility. Key Largo Wastewater Treatment District is responsible for wastewater treatment in its service area and the completion of the Key Largo Wastewater Treatment Facility.
 - a. By July 1, 2012, Monroe County shall complete construction of the South Transmission Line;

- b. By July 1, 2013, Monroe County shall complete design of Collection basin C, E, F, G, H, I, J, and K;
 - c. By July 1, 2012, Monroe County shall complete construction of Collection basins E-H;
 - d. By December 1, 2011, Monroe County shall schedule construction of Collection basins I-K;
 - e. By July 1, 2011, Monroe County shall complete construction of Collection basins I-K;
 - f. By July 1, 2011, Monroe County shall complete 50% of hook-ups to Key Largo Regional WWTP;
 - g. By July 1, 2012, Monroe County shall complete 75% of hook-ups to Key Largo Regional WWTP;
 - h. By July 1, 2013, Monroe County shall complete all remaining connections to Key Largo Regional WWTP.
2. Hawk's Cay, Duck Key and Conch Key Wastewater Treatment Facility.
- a. By July 1, 2012, Monroe County shall complete construction of Hawk's Cay WWTP upgrade/expansion, transmission, and collection system;
 - b. By July 1, 2013, Monroe County shall complete construction of Duck Key collection system;
 - c. By July 1, 2012, Monroe County shall initiate property connections to Hawk's Cay WWTP;
 - d. By December 1, 2012, Monroe County shall complete 50% of hook-ups to Hawk's Cay WWTP;
 - e. By July 1, 2013, Monroe County shall complete 75% of hook-ups to Hawk's Cay WWTP; and
 - f. By July 1, 2014, Monroe County shall complete all remaining connections to Hawk's Cay WWTP.
3. South Lower Keys Wastewater Treatment Facility (Big Coppitt Regional System).
- a. By July 1, 2012, Monroe County shall complete 75% hookups to South Lower Keys WWTP; and
 - b. By July 1, 2013, Monroe County shall complete all remaining connections to the South Lower Keys WWTP.
4. Cudjoe Regional Wastewater Treatment Facility.
- a. By July 1, 2011, Monroe County shall complete planning and design documents for the Cudjoe Regional Wastewater Treatment Facility, the Central Area (Cudjoe, Summerland, Upper Sugarloaf) collection system and the Central Area Transmission Main;
 - b. By October 1, 2012, Monroe County shall initiate construction of Wastewater Treatment Facility, Central Area Collection System and Central Area Transmission Main;
 - c. By July 1, 2014, Monroe County shall initiate construction of Wastewater Treatment Facility, Central Area Collection System and Central Area Transmission Main;
 - d. By February 1, 2012, Monroe County shall complete construction of Wastewater Treatment, Outer Area Collection System and Transmission Main;
 - e. By February 1, 2015, Monroe County shall complete construction of Outer Area collection and transmission main;

- f. By July 1, 2014, Monroe County shall initiate property connections - complete 25% of hook-ups to Cudjoe Regional WWTP;
 - g. By July 1, 2015, Monroe County shall complete 50% of hook-ups to Cudjoe Regional WWTP; and
 - h. By December 1, 2015, Monroe County shall complete remaining hook-ups to Cudjoe Regional WWTP.
- (d) Stormwater Treatment Facilities.
- 1. By July 1, 2011, Monroe County shall evaluate and allocate funding for stormwater implementation. Monroe County shall identify any funding in the annual update to the Capital Improvements Element of the Comprehensive Plan.
 - 2. By July 1, 2011, Monroe County shall apply for stormwater grants from the South Florida Water Management District.
 - 3. By July 1, 2011, Monroe County shall complete Card Sound Road stormwater improvements.

Background:

The Monroe County Year 2030 Comprehensive Plan is divided into three volumes: a Technical Document (data and analysis), Policy Document (Comprehensive Plan), and Map Atlas.

Technical Document: The 2030 Technical Document is intended to address the data, inventory, and analyses requirements of Chapter 163, Florida Statutes (F.S.). The data, inventory and analyses contained within the Technical document supports the development of goals, objectives, policies, and implementation programs established in the Policy Document component of the Monroe County 2030 Monroe County Comprehensive Plan. The Technical Document contains background information including the technical support data and analyses for the various elements of the plan.

Comprehensive Plan: The Policy Document contains the goals, objectives and policies for each element, the capital improvements implementation program, and the Comprehensive Plan monitoring and evaluation procedures.

Map Atlas: Section 163.3177 F.S. establishes the minimum required maps:

- Map Series 2-1 (Existing Land Use)
- Map Series 2-3 (Future Land Use)
- Map Series 3-1 (Soils)
- Map Series 3-2 (Flood Zone)
- Map Series 3-3 (Terrestrial Habitat)
- Map Series 3-7 (Coastal High Hazard Area)
- Map Series 4-1 (Road System)
- Map Series 4-2 (Roadway Functional Classification)
- Map Series 4-3 (Number of Through Lanes)
- Map Series 4-4 (Roadway Level of Service)
- Map Series 8-1 (Facilities Service Area - Potable Water)

Additionally, the Map Atlas contains maps depicting other background information for the various elements.

In accordance with the requirements of Chapter 163, F. S., Part II, the Policy Document contains the following sections of the Comprehensive Plan adopted by the Board of County Commissioners (BOCC):

1. The Goals, Objectives and Policies of the plan, as well as the requirements for capital improvements implementation, including the Five-Year Schedule of Capital Improvements, contained in Chapter 3.0;
2. The procedures for monitoring and evaluation of the plan, contained in Chapter 4.0;
3. The procedures for public participation and comment on the comprehensive planning process, contained in Chapter 5.0; and
4. The map series included in the Map Atlas which depicts future conditions in Monroe County: Future Land Use and Future Transportation also require adoption by the BOCC. [The remainder of the map series contained in the Map Atlas and the background data and analyses contained in the Technical Document do not require adoption by the BOCC.]

The Goals, Objectives and Policies contained in Chapter 3.0 are the primary mechanism for implementation of the Comprehensive Plan. Goals, Objectives and Policies are presented for the following elements:

1. Future Land Use
2. Conservation and Coastal Management
3. Traffic Circulation
4. Mass Transit
5. Ports, Aviation and Related Facilities
6. Housing
7. Potable Water
8. Solid Waste
9. Sanitary Sewer
10. Drainage
11. Natural Groundwater Aquifer Recharge
12. Recreation and Open Space
13. Intergovernmental Coordination
14. Capital Improvements
15. Energy and Climate

Community Development Block Grant-Mitigation Program

Florida Keys Regional Resilience Plan and Neighborhood Livability Outreach and Planning

Capacity Plan

Goals

This project will develop a regional LiDAR elevation database and an inundation vulnerability analysis and ranking of locally maintained roads to *bridge the gap* between the county and its municipalities in resilience planning. We will also engage residents of six lower income neighborhoods at high inundation risk to determine specific road adaptation options that best meet their needs.



Stakeholders

The key regional stakeholders are the residents of Monroe County, Islamorada, Marathon, Layton, Key Colony Beach, and Key West. Residents, visitors, and businesses alike will be impacted by the economic, environmental, and societal impacts of sea level rise in these vulnerable island communities. The roadway LiDAR elevation mapping and vulnerability analysis will benefit the entire region by developing an adaptation action plan for roads subject to flooding and sea level rise. The outreach phase allows residents an opportunity to provide input into road adaptation plans in their neighborhood.

Workplan

Phase I: Mobile LiDAR Data Collection (Municipalities Only)

Monroe County recently completed \$530,000 of mobile LiDAR elevation data of its **311 miles** of County-maintained roads. A unified regional LiDAR database will now be created to lay a standardized foundation for the evaluation of road infrastructure in the municipalities. This project shall provide mobile LiDAR data for up to 249 miles of roads in Islamorada, Layton, Marathon, Key Colony Beach and Key West. Once completed, all Monroe County entities will have the same level of LiDAR data, helping to *bridge the gap* in resilience planning between the County and the municipalities.

Phase II: Vulnerability Analysis and Planning (Municipalities Only)

Monroe County is underway with a \$1.8 Million Phase II Analysis. Using the mobile LiDAR data under this project, a comprehensive vulnerability analysis will be conducted of the five municipalities' roads and drainage infrastructure. It will identify what and how high roads need to be elevated and identify how critical services and lifelines will be affected. The Analysis will be conducted for the five municipalities, as follows:¹



- **Geocoded maps:** Develop GIS map layers depicting roadway segments, water elevation clearance, pavement conditions, service life, tidal data, historical flooding, future flood prone area, utilities, signs, storm water structures, bridges, and environmental information.
- **Engineering Analysis:** Prioritize roadway segments based on vulnerability including population density, flood vulnerability, *proximity to critical facilities*, social services, *lifelines*, evacuation route, and constraints such as funding and service life.
- **Flood Mitigation Concept Development:** Adaptation improvement plans to include pavement design, utilities, maintenance of traffic, signing, landscape, storm water design, bridges, current condition, environmental impact assessment, evaluation of needed permits, right-of-way analysis, cost estimates and benefit cost analysis.
- **Policy, Regulatory, Legal and Funding Analysis:** Summarize roads liability, level of service, regulatory and funding issues.
- **Cost Benefit Analysis**
- **Maintenance Costs**
- **Project List:** A prioritized list of road adaptation projects to build resilience until 2045.
- **Policy Recommendations:** Recommended policy revisions to the municipalities Comprehensive Plans.



¹ This \$1.8 Million analysis is currently being conducted for County-maintained roads and has not been included in this grant application.

Phase III: Neighborhood-based Resilience Planning: County Only

The leadership team will use the data, maps, and analysis to select 6 neighborhoods in higher risk areas and low to moderate income census tracts when feasible. This neighborhood-based planning will *develop adaptation approaches* and *identify challenges to functionality and quality of life* specific to each of the neighborhoods through a series of neighborhood outreach meetings and engagement of residents.

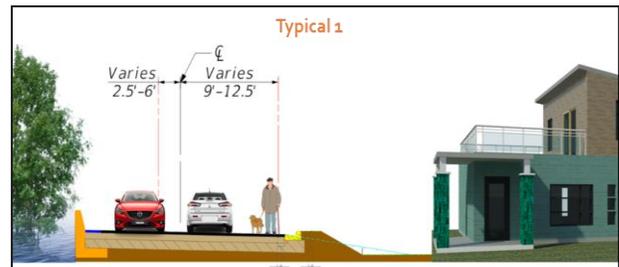


Once the adaptation strategy is identified the projects will be ranked using criteria such as the following:

- Criteria identified by the residents
- Level of inundation and frequency
- Type and height of existing mean high water
- Elevation
- Type and height of adaptation measures generally proposed
- Stormwater management
- Funding strategies
- Policy analysis of the “levels of service” the County may or may not be able to provide to residents given the challenges of cost versus the level of rising waters.

The Plan will provide:

- Identification of challenges and issues specific to each neighborhood
- Neighborhood outreach meetings
- Conceptual plans
- Identification of handicapped or vulnerable residents who may have difficulty navigating access to a newly elevated road
- Identification of potential benefits and losses such as access, walkability, recreational opportunities, private property encroachment, affordability, etc.
- Drawings illustrating the potential inundation of the roads, the available options for road adaptation and the look if built.
- A cost benefit analysis.
- A final recommendation report for each neighborhood project



Deliverables

Final recommendation reports for each neighborhood project, including recommended road elevations and drainage based on science, engineering, community input and needs. The plans will focus not only on structural design but also explore the socio-

economic factors impacting the project, the community, and residents lives.

Resources (Staffing and Budget)

Project Administrator: Rhonda Haag: The Project Manager oversees all aspects of the project, working closely with the residents and team to develop plans, timetables, and costs. She is responsible for ensuring the project is completed on budget and within scope and ensures coordination with the Project Team, Regional Leadership Team and residents. She communicates with key stakeholders and residents on the status of the Project. She will approve budgetary issues, financial expenditures, revenues and ensure sufficient resources are available.

Regional Leadership Team

A Regional Leadership Team will establish project goals, major objectives, monitor the implementation timeline and ensure that contractual requirements are met. The team will also provide coordination with community stakeholders and regional organizations such as the Regional Planning Council and the Southeast Florida Climate Change Compact. The Team will consist of a representative from each of the jurisdictions as follows:

- Monroe County: Rhonda Haag, Chief Resilience Officer
- Key West: Alison Higgins, Sustainability Coordinator
- Marathon: George Garrett, Assistant City Manager
- Islamorada: Maria Bassett, Finance Director
- Key Colony Beach: Chris Moonis
- Layton: Skip Haring

Judith Clarke: Senior Director of Roads and Engineering

Ms. Clarke will support the project as a subject matter expert when local knowledge is necessary to support data collection, analysis, and policy recommendations. She will support long-term project planning for Capital Improvements related to road elevations, drainage improvement, and policy decision related to sea level rise.

Based upon the neighborhood analysis and cost benefit analysis, it may not be a prudent investment of limited public dollars to elevate all vulnerable roads. How will these priorities be established by the community leaders? Are there decision-making triggers, which could guide the leadership on when abandonment might be the best option, and could this be supported by buy-out programs?

Budget

- **Phase I: GIS LiDAR Data Collection – (Municipalities Only)**

Collect LiDAR elevation survey data for 249 miles of locally maintained roads in the five municipalities of Monroe County. The cost for this phase is **\$572,500**

	Mileage	Budget
Islamorada	69	\$ 130,000
Key West	93	\$ 280,000
Marathon	78	\$ 147,000
Layton	2	\$ 4,000
Key Colony Beach	7	\$ 11,500
Total	249 Miles	\$572,500

- **Phase II: Vulnerability Analysis and Planning: (Municipalities Only)**

Identify where the water inundation will be within various points of time and providing a roads adaptation plan. The cost for this phase is **\$1,504,000**

Phase II Funding Allocation	Mileage	Budget
Islamorada	69	\$416,771.08
Key West	93	\$561,734.94
Marathon	78	\$471,132.53
Layton	2	\$ 12,080.32
Key Colony Beach	7	\$ 42,281.13
Unincorporated Monroe County		
Total	249 Miles	\$ 1,504,000

- **Phase III: Neighborhood-based Resilience Planning: (County Only)**

Select 6 high-inundation risk and low-income neighborhoods to identify challenges, functionality, and quality of life issues specific to each neighborhood. The cost for this phase is \$ **450,000**.

Phase III Funding Allocation	# of Neighborhoods	Budget
Islamorada		
Key West		
Marathon		
Layton		
Key Colony Beach		
Unincorporated Monroe County	6	\$450,000
Total		\$450,000

Total Budget Funding Request for the Project by Jurisdiction

Funding Allocation by Jurisdiction	Phase I	Phase II	Phase III	Total
Islamorada	\$130,000	\$416,771.08	\$ 0	\$546,771
Key West	\$280,000	\$561,734.94	\$ 0	\$841,735
Marathon	\$147,000	\$471,132.53	\$ 0	\$618,133
Layton	\$ 4,000	\$ 12,080.32	\$ 0	\$ 16,080

Key Colony Beach	\$ 11,500	\$ 42,281.13	\$ 0	\$ 53,781
Unincorporated Monroe County	\$ 0	\$ 0	\$450,000	\$450,000
Total	\$ 572,500	\$ 1,504,000	\$450,000	\$ 2,526,500

Vendors

Monroe County, in coordination with the Regional Leadership Team, will solicit the services of contractors to complete Phases I, II, and III. The first vendor will be responsible for the collection of ground level LiDAR technology for each municipality.

The second vendor will be solicited to provide the services for Phases II for the municipalities and III for the County. Monroe County has already completed Phase I and II and can draw upon the experience to ensure that data collection meets the overall project needs.

All procurement process will comply with the procurement standards in 2 C.F.R. §200.318 - §200.326 when procuring property and services under this Agreement.

Monitoring /Quality Control

The Project Manager shall ensure contractual requirements of the CDBG-MIT Sub-applicant agreement and vendor contracts are met. She has recently successfully completed a \$49 Million federal grant from USDA NRCS.

She will approve contract terms, deadlines, budgets and ensure that procurement follows Federal Register and grantor requirements and that schedules and budget requirements are maintained. She will process invoices and grant reimbursement requests and perform closeout.



Attached are the Stakeholder Resolutions or Support Letters from the Cities of Key West, Marathon, Islamorada, and Layton. The leadership team resumes are being submitted in a Zip File as requested.

Attachment 1: Municipal Resolutions in Support of the Project

City of Marathon



CITY OF MARATHON, FLORIDA

9805 Overseas Highway, Marathon, Florida 33050
Phone: (305) 289-4130 Fax: (305) 743-3667
lindseyc@ci.marathon.fl.us

July 15, 2020

Ms. Helene Wetherington
Disaster Recovery Director
Monroe County Regional Service Center
2798 Overseas Highway
Marathon, Florida 33050

Subject: CDBG-MIT Regional Resilience Grant

Dear Ms. Wetherington:

This letter is written with the intent of providing City of Marathon support for the County's application to the CDBG-MIT Florida Keys Regional Resilience and Neighborhood Livability Outreach and Planning grant program.

Last evening, the City Council of the City of Marathon, Florida agreed to provide support to the County for the project and to participate in the project as may be appropriate. The City Council believes that this is laudable project with purpose for the entire community of the Keys.

We are pleased to be of assistance in whatever way we can. Let us know how we may help. If you have any questions or need any additional input, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read "Chuck Lindsey".

Chuck Lindsey, City Manager

City of Islamorada



*Islamorada,
Village of Islands*

June 30, 2020

Ms. Rhonda Haag, Chief Resilience Officer
Monroe County Board of County Commissioners
2798 Overseas Highway
Marathon, Florida 33050

Dear Ms. Haag,

This letter conveys the support of Islamorada, Village of Islands, for Monroe County's application to the Community Development Block Grant – Mitigation (CDBG-MIT) Program for funding to develop a Regional Resilience Plan to build sea level rise resilient neighborhoods countywide and especially to address road elevation and related storm water needs.

Through funding of Phases I and II of the project submitted in the application, the Village would utilize LiDAR data to help prioritize neighborhoods in need of storm water management systems to alleviate road flooding. This data would also support the Village's efforts to seek grant funds from other agencies to cover capital project costs. In the case that only Monroe County receives funding for Phase III of the proposed project, the Village recognizes that any sea level rise-related funding assistance that comes into Monroe County is beneficial to all residents of the Florida Keys as much would be learned through completion of the pilot projects.

The Village looks forward to the opportunity to work with Monroe County and the other local governments in the Keys on this project and to finding solutions to mitigate the impacts of sea level rise that will help all County residents, property owners and businesses.

Sincerely,

Seth Lawless
Village Manager

86800 Overseas Highway, Islamorada, FL 33036
www.islamorada.fl.us

Town of Layton

RESOLUTION NO. 2020-07-01

**A RESOLUTION OF THE CITY COUNCIL OF THE CITY
OF LAYTON, FLORIDA REQUESTING A MONROE
COUNTY SET ASIDE FROM THE CDBG-MIT FUNDS;
PROVIDING FOR TRANSMITTAL; AND PROVIDING FOR
AN EFFECTIVE DATE**

WHEREAS, the City of Layton recognizes the importance of mitigation projects to increase resilience to disasters and reduce or eliminate the long-term risk of loss of life, injury, damage to and loss of property, as well as suffering and hardship, by lessening the impact of future disasters; and

WHEREAS, pending appropriation by Congress, the Florida Department of Economic Opportunity (DEO) will administer the Housing and Urban Development (HUD) Community Development Block Grant Mitigation (CDBG-MIT) Program through which the State of Florida will receive \$100 million in funding to support mitigation projects; and

WHEREAS, HUD's language specified that CDBG-MIT funds sought to support four policy objectives: data-informed investments in high-impact projects, build capacity of local governments to comprehensively analyze disaster risks, adoption of regional priorities and leverage funds through partnerships;

WHEREAS, Monroe County, the City of Key West, the Village of Islamorada, the City of Marathon, the City of Key Colony Beach and the City of Layton attended DEO's Regional Workshop on November 7, 2019 and unanimously requested a \$150 Million set aside of CDBG-MIT funds in the DEO State Action Plan for six-government Keys wide partnership that would address all four of HUD's Policy Objectives;

WHEREAS, the DEO is requesting comments on its draft State Action Plan to guide how the CDBG-MIT funds are spent and has not included the set aside.

WHEREAS, the City of Layton still finds that the support of the \$150 Million set aside is in the best interest of the City of Key West.

NOW, THEREFORE, BE IT RESOLVED by the City Commission of the City of Key West, Florida;

Section 1. The City Council of the City of Layton hereby supports Monroe County's request for \$100 Million set aside funds from the CDBG-MIT Program for flood mitigation and sea level rise resiliency projects within unincorporated Monroe County and the municipalities in Monroe County.

Section 2. The City Clerk is hereby directed to transmit a copy of this resolution to the Monroe County Disaster Recovery Director.

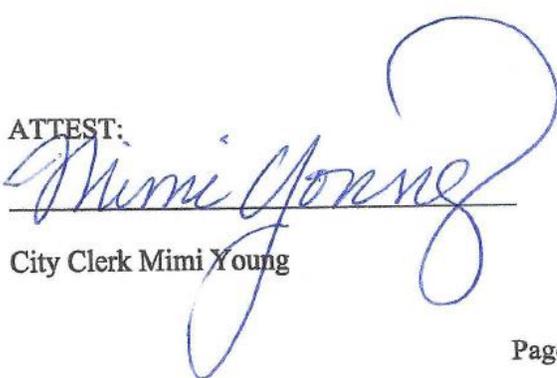
Section 3. This Resolution shall take effect immediately upon its passage and adoption and authentication by the signatures of the presiding officer and the Clerk of the Commission.

Roll Call

Councilwoman Cindy Lewis	Yes <u> X </u>	No _____
Vice Mayor Greg Lewis	Yes <u> X </u>	No _____
Councilman Philip Porter	Yes <u> X </u>	No _____
Councilwoman Yesi Diaz	Yes <u> X </u>	No _____
Councilwoman Susan Grant	Yes <u> X </u>	No _____

Passed and adopted by the City Council at a meeting held this 9th day of July 2020.

ATTEST:



City Clerk Mimi Young



Bruce Halle, MAYOR

City Key West

RESOLUTION NO. 20-127

**A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF
KEY WEST, FLORIDA, SUPPORTING MONROE COUNTY'S
GRANT APPLICATION FOR THE "FLORIDA KEYS REGIONAL
RESILIENCE PLAN AND NEIGHBORHOOD LIVABILITY
OUTREACH AND PLANNING"; PROVIDING FOR AN EFFECTIVE
DATE**

WHEREAS, the City Commission is concerned about the effect of sea level rise on the environmental, economic, social and public safety of the City of Key West, and the Florida Keys, and

WHEREAS, the City Commission finds it an urgent necessity for the City to incorporate local adaptation strategies and take practical and legislative action to address this worldwide concern; and

WHEREAS, Monroe County is applying for a regional grant that could enable all Florida Keys local governments to collect more refined elevation data and assess the effects of water inundation on roads, critical facilities and neighborhoods.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF KEY WEST, FLORIDA, AS FOLLOWS:

Section 1: That the City Commission supports Monroe County's "Florida Keys Regional Resilience Plan and Neighborhood Livability Outreach and Planning" grant application to the Florida Department of

Florida Keys Regional Resilience Plan and
Neighborhood Livability Outreach and Planning

Economic Opportunities Community Development Block Grant - Mitigation;
General Planning Grant.

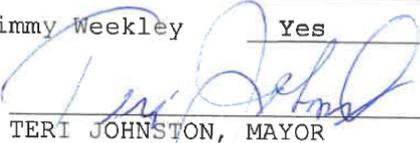
Section 2: That this Resolution shall go into effect immediately upon its passage and adoption and authentication by the signature of the Presiding Officer and the Clerk of the Commission.

Passed and adopted by the City Commission at a meeting held this 21st day of July, 2020.

Authenticated by the Presiding Officer and Clerk of the Commission on the 22nd day of July, 2020.

Filed with the Clerk on July 22, 2020.

Mayor Teri Johnston	<u>Yes</u>
Vice Mayor Sam Kaufman	<u>Yes</u>
Commissioner Gregory Davila	<u>Yes</u>
Commissioner Mary Lou Hoover	<u>Yes</u>
Commissioner Clayton Lopez	<u>Yes</u>
Commissioner Billy Wardlow	<u>Yes</u>
Commissioner Jimmy Weekley	<u>Yes</u>


TERI JOHNSTON, MAYOR

ATTEST:


CHERYL SMITH, CITY CLERK

Resumes from the Leadership Team

Rhonda L. Haag

Monroe County, 1100 Simonton Street, Key West, FL 33040

Sustainability and Project Director / Chief Resilience Officer

2014 - present

Plan, develop and direct the complex activities of the County's sustainability and canal restoration program at the direction of the County Administrator. Secure and manage state and federal grants. Lead negotiator for the county's largest contracts, including solid waste and water quality contracts. Work with state and federal partners to develop and promote legislative measures to support and enhance canal restoration and sustainability practices. Serve as agency spokesperson for assigned initiatives, and coordinate progress with media, local, state and federal partners. Perform complex forecasting and cost/benefit analyses. Provide policy development to enable county leadership to make informed decisions about moving forward with sustainability, sea level rise and canal programs. Implement the county's Sustainability Action Plan. Perform sea level rise modeling to prepare the County infrastructure for future sea level rise. Develop sustainability policies, energy management and reduction initiatives, and sustainable capital development processes. Serve as Steering Committee member of the *SE FL Regional Climate Leadership Compact*.

Sustainability Initiatives Coordinator / Grants Manager

05/11 - 2014

Sustainability issue development and grants manager for \$3.2 million Department of Energy Grant administered. Apply for and manage grants, ensuring compliance with grant regulations. Coordinate documentation and grant compliance for municipalities, contractors, and service providers. Prepare and monitor solicitations and contracts. Monitor project effectiveness, track program progress ensure the timely and accurate completion of required grant programmatic and financial reporting.

Department of Environmental Protection (DEP), Environmental Manager

09/09 – 05/11

Serve as an environmental manager, the District ombudsman, public records coordinator, liaison with the press office and point of contact for elected officials, the media, attorneys, and the public. Analyze and evaluate complex data regarding the environmental aspects of proposed projects. Develop and manage the District's environmental education activities.

Quantum Leadership Group, Business Affairs V.P.

05/07 – 06/08

Led all business, contractual and outreach activities. Developed and maintained trusting relationships with government and community leaders. Prepared solicitation responses, purchasing and contract documents, and negotiated on behalf of clients. Provided training on contractual practices. Provided community outreach for \$1.5 billion of Everglades Restoration projects.

South Florida Water Management District (SFWMD) Service Center Director,
11/05 - 05/07

Led and implemented all strategic and operational aspects of District business for Lower West Coast Service Center, contract management, budget preparation and control, and managed 50 employees. Responsible for all media relations, community outreach, budget and program expenditures, local government relations and coordination, permit approvals, and emergency operations.

Public Relations Outreach Manager, SFWMD, West Palm Beach, FL
11/02-11/05

Managed outreach activities for all District programs, including the implementation of the \$8 billion Comprehensive Everglades Restoration Plan (CERP). Supervised outreach professionals, and served as project manager for public relations and communications contracts. Worked with executives and department heads to develop strategic outreach strategies for programs in 16 counties.

Florida Keys Service Center Director, SFWMD, Islamorada, FL 10/97 -10/02

Served as District representative in the Florida Keys, directing all day-to-day business. Duties also included all contract management, project management, monitoring permitting projects, preparation and monitoring of budget, media spokesperson, community outreach and all speaking engagements and leading and serving on large and complex technical and advisory groups and councils.

Purchasing/Contracting Manager, SFWMD, West Palm Beach, FL
1995 - 1997

Developed, negotiated and administered complex contracts and procurements up to \$100 million each. Specialized in the most complex or unique solicitations and contracts of a \$1.5 billion agency, and provided creative, successful solutions. Improved customer service by decreasing turn-around time and ensuring consistent, high-quality output. Managed up to 8 contract professionals.

Judith Clarke, P.E.

Director of Engineering Services, Monroe County, FL

Clarke-judith@monroecounty-fl.gov

305-295-4329

Education

M.S. - Environmental
Engineering, University of
Wisconsin, Madison, 1996

B.A. - English and Economics,
Duke University, 1986

Registration

Professional Engineer:
Florida no.62727 (2005)

Professional Engineer:
Massachusetts no. 45208
(2002)

Associate in Risk Management
(ARM)
May, 1990

Certification/Courses

Federal Emergency
Management Agency (FEMA)
Incident Command System
(ICS) Training – ICS 100, ICS
200, ICS 700, ICS 800, ICS G-
300, ICS G-400;

State Emergency Response
Team (SERT) Training – G-202
Debris Management

Monroe County Emergency
Management EOC Operations
Section Training

OSHA 40-hour Hazardous
Waste Health and Safety
Training

8-hour Hazardous Waste Site
Supervisory Course

8-hour Confined Space Entry
Training

EMS Lead Auditors Course-
ANSI-RAB Accredited, 2002

**Director of Engineering Services, Monroe County, FL
2/2009 to Present**

Provide oversight and management of Engineering Services, Road Maintenance and Card Sound Toll Operations Department staff for unincorporated Monroe County; responsible for preparation and implementation of annual transportation infrastructure capital plan. Activities include project planning and budgeting, review and approval of requests for qualifications and procurement documents, consultant project scopes and proposals, technical review of consultant engineering design plans and specifications, and review of contract documents for conformance with county requirements. Review and approve project invoices, construction pay applications, change orders prepared by project managers and project close out documentation.

**Assistant County Engineer, Monroe County, FL
3/2006 to 2/2009**

Responsible for oversight of engineering department staff, and planning and implementation of transportation infrastructure construction projects including roadway resurfacing and drainage improvement projects, bridge rehabilitation, culvert installation and shared use paths. Activities include preparing contract documents, overseeing design consultants, review of engineering plans and permit applications, management of construction contractors and construction engineering and inspection (CEI) consultants.

**Senior Administrator Special Projects, Monroe County
Engineering Department, Monroe County, FL
12/2004 to 3/2006**

Responsible for implementation of engineering projects including preparing environmental permit applications, wastewater studies, reviewing applications and issuing right-of-way permits, managing construction projects on county roadways and parks, hurricane debris clean-up and emergency response contractor management.

Judith Clarke

**Project Manager, Camp Dresser & McKee, Inc. Cambridge, MA
5/1997 to 8/2004**

Project manager for various soil and groundwater contaminated sites with responsibilities from initial characterization through site closure. Site characterization activities include developing sampling and analysis plans, site investigation and contractor oversight, data evaluation. Responsible for remedial design including evaluation of remedial alternatives, preparing plans and specifications, contractor coordination and communication with regulatory agencies and public groups.

Additional activities include conducting environmental compliance audits and assisting clients with developing operations procedures and programs for maintaining compliance with regulations; development of ISO 14000 compliant environmental management systems (EMS)

Florida Keys Regional Resilience Plan and Neighborhood Livability Outreach and Planning

MARIA T. BASSETT

35 Rose Place • Key Largo, FL 33037

Phone: (772) 766-6596 • E-mail: miabass121314@gmail.com

Highlights of Qualifications

- Approximately twenty years' accounting and administrative experience in positions of increasing responsibility
- Familiarity with local government accounting and auditing theory, principles and procedures
- Working knowledge of local government management, administration, and budget development processes
- Excellent analytical and written communication skills
- Strong leadership skills and supervisory experience

Education

- **Master of Accounting**
Florida Atlantic University, Boca Raton, Florida; May 2005
- **Bachelor of Business Administration, Accounting**
InterAmerican University of Puerto Rico, San Juan, Puerto Rico; May 1996

Local Government Experience

ISLAMORADA, VILLAGE OF ISLANDS, FLORIDA

Finance Director / Deputy Village Manager

October 2016 to Present; August 2011 to February 2014

- Chief Financial Officer for this Florida Keys local government incorporated in 1997
- Directly oversee Finance & Administration Department, IT & Communications Department and Plantation Yacht Harbor Marina
- Design Village departmental budgets and oversee accounting integration
- Create and establish financial policies, procedures, programs and best practices.
- Stay abreast of emerging finance standards, applications and technology platforms
- Maintain general ledger and produce financial reports utilizing Tyler Technologies Incode 10 application
- Responsible for debt service administration, CAFR preparation and audit coordination
- Prepared \$10 million of Hurricane Irma response and recovery cost reimbursements and submitted to FEMA and FDEM
- Assist Village Manager with special projects and assignments as directed

Village Manager

February 2014 to October 2016

- Served as Chief Administrative Officer reporting to Village Council
- Supervised full-time and part-time staff of approximately 120 employees
- Oversaw completion of \$160 million Village-wide wastewater collection and transmission system
- Participated in meetings with lobbyists, other local government officials and elected officials at state and federal levels to request funding

CITY OF MARCO ISLAND, FLORIDA

Controller

November 2007 to August 2011

- Primarily responsible for maintaining general ledger and balance sheet reconciliation schedules to prepare for annual audit and Comprehensive Annual Financial Report (CAFR) issuance
- Acted as System Administrator of the City's ADG (American Data Group) fund management software application
- Directly supervised STRP (Septic Tank Replacement Program) Accountant and Staff Accountant
- Acted as Finance Director in absence of incumbent
- Monitored CIP (governmental and enterprise) activity and assisted project managers with budget adherence
- Worked with Grants Coordinator to track grants applications, receipt of funds and use of funds
- Reflected asset additions, deletions and transfers in the City's Fixed Asset System; calculated and recorded depreciation
- Updated schedules to reconcile Police and Firefighters' Pension Plan activity to monthly investment statements
- Assisted Budget Analyst and Finance Director with annual budget preparation and submission of TRIM-related documents
- Ensured that City met its debt service payment obligations and prepared related bond covenant compliance reports

Florida Keys Regional Resilience Plan and Neighborhood Livability Outreach and Planning

MARIA T. BASSETT – Page Two

TOWN OF ORCHID, FLORIDA

Town Manager
Town Clerk

March 2005 to November 2007
July 2003 to March 2005

- Acted as Chief Administrative Officer and Chief Financial Officer
- Supervised and provided guidance to regular and contract staff
- Reviewed Building Department and land development activities
- Represented the Town at meetings of other local and state government agencies
- Coordinated Town Council and advisory committee meetings; prepared meeting minutes
- Remained knowledgeable of Florida Sunshine Laws
- Prepared annual budget and financial statements, including Management's Discussion and Analysis
- Worked with external auditors on yearly basis to facilitate annual audit
- Performed monthly cash and general ledger account reconciliations; produced monthly financial statements
- Completed quarterly Federal and state payroll tax returns

SMITH, TODD, MCENTEE & COMPANY, CPAs, LLC, Vero Beach, Florida

Staff Accountant

May 2002 to July 2003

- Managed CPA firm's branch office in Sebastian, Florida
- Prepared state and Federal income tax returns for approximately 200 individual and small business clients
- Completed monthly and quarterly small business client writeups, including general ledger data entry, drafting of financial statements, analysis and reconciliation of balance sheet accounts and preparation of payroll tax returns and sales tax returns
- Assisted senior staff with audits of local government entities and water management districts

Military Experience

United States Army, October 1982 to December 1988

- Morse Code Intercept Operator; Executive Administrative Assistant
- Distinguished Honor Graduate, Primary Leadership Development Course
- Attained Rank of Sergeant/E5 – Held Top Secret Clearance – Received Honorable Discharge

Professional Memberships

- **Government Finance Officers Association (GFOA)**
Passed three of five exams for CPFO designation
- **Florida Government Finance Officers Association (FGFOA)**
- **Florida City and County Managers Association (FCCMA)**

George Stanley Garrett
500 17th Court, Gulf
Marathon, FL 33050
Mobile: 305-395-1850
Email: garrettgeo@hotmail.com



EDUCATION

University of Rhode Island

Kingston, Rhode Island
Master's Degree – December 1982
42 Semester Hours
Major: Zoology
Minor: None
GPA: 3.5 out of 4.0

Relevant Coursework, Licensures and Certifications:
Fields of Interest: Evolutionary Biology & Behavioral Ecology
Degree: Master of Science in Zoology
Thesis: The Results of an Attempt to Induce and Characterize an
Autoimmune Response to Testis in Steelhead Trout, *Salmo gairdneri*

Course work available upon request

University of California

Santa Cruz, California
Bachelor's Degree – June 1978
220 Quarter Hours
Majors: Biology & Chemistry
GPA: 3.8 out of 4.0

Relevant Coursework, Licensures and Certifications:
Fields of Interest: Evolutionary/Behavioral Ecology and Sub-tidal (neritic)
Ecology

Course work available upon request

WORK EXPERIENCE

Deputy City Manager
City of Marathon, Florida
December 2015 – 2018

Marathon, Florida
Salary: Approx \$132,000 Per Year
Hours per week: 60 to 70

Resume' – George Stanley Garrett

Director of Planning
City of Marathon, Florida
December 2007 – Present

Marathon, Florida
Salary: Approx \$118,000 Per Year
Hours per week: 50 to 60

BUDGET: \$1,323,000 Annually

STAFFING: 9 Full time employees - planners, biologist & land steward, FEMA coordinator, contract manager.

PROGRAM OVERSIGHT:

- ♣ Coordination with State Land Planning Agency (Florida Department of Community Affairs) and Regional Planning Council;
- ♣ All aspects of Planning permit review from "As of Right" projects to Major Conditional Use projects requiring project assessment, report writing and presentation, and project approval before the Technical Review Committee, Planning Commission, and City Council;
- ♣ All aspects of Long Range Planning including the Development of Comprehensive Plan amendments / Land Development Regulation amendments and changes to FLUM and Zoning Maps;
- ♣ All aspects of Annual Comprehensive Plan review;
- ♣ Development of new required Comprehensive Plan elements such as the Marina Siting Plan or the Working Waterfront Preservation Plan;
- ♣ All aspects of City Environmental Permit review;
- ♣ All aspects of City Land Management of Conservation Lands acquired by the City of Marathon or under management through agreements with the State of Florida;
- ♣ Lead planning department expert in legal defense of the City Comprehensive Plan.
- ♣ Member FKNMS Water Quality Protection Program Steering Committee, Management Committee, and Technical Advisory Committee

JOB SPECIFIC EXPERIENCE:

- ♣ Development of annual report to Governor & Cabinet;
- ♣ Assistance in two cases involving potential "takings" claims; Development of City relevant GIS layers

Senior Director of Marine Resources
Monroe County, Florida
October 1991 – July 2007

Marathon, Florida

Resume' – George Stanley Garrett

Salary: \$89,205 Per Year
Hours per week: 50 to 60

BUDGET: \$1.5 Million Annually.

GRANTS OVERSIGHT: \$5.5 Million FY 07', Average \$850,000 over 17 year period.

STAFFING: 5 Full time employees – 1 senior marine planner, 1 marine projects coordinator, 1 senior GIS administrator, 1 GIS planner, 1 administrative assistant. Over-site of up to 40 contract employees (Hurricane Wilma & other projects).

PROGRAM OVERSIGHT:

- ❖ Marine related Comprehensive Plan / LDR changes - public policy development & adoption;
- ❖ All aspects of Derelict Vessel Removal Program;
- ❖ Development implementation of Monroe County Marine Regulatory Zones (No or Minimum Wake Zones, No Discharge (Waste Effluent) Zones & Swimming Zones); Implementation of Channel Marking Action Plan;
- ❖ Completion of assessment reports related to the impacts of boater activity & use of Aids to Navigation;
- ❖ Artificial reefs within the FKNMS including all aspects of site selection/site assessment, vessel clean-up preparation, vessel transport, on-site preparation, vessel sinking, subsequent vessel biological monitoring & assessment of socioeconomic impacts;
- ❖ Coordination/management Monroe County Marine & Port Advisory Committee, Wastewater Technical Advisory Committee & Boot Key Harbor Committee;
- ❖ Long term development of the Monroe County GIS Program–ArcSDE, ArcIMS, ArcGIS, ArcView & Aerial imagery for GIS;
- ❖ Coordination with federal and state partners (FKNMS, FDEP, FWC, & others on all aspects of marine policy development and implementation;
- ❖ Planning Chief–Monroe County Emergency Operations Center;
- ❖ Completion-Florida Keys marine & terrestrial habitat surveys.
- ❖ Development-Florida Keys marine & terrestrial damage assessment protocol for Monroe County.

JOB SPECIFIC EXPERIENCE:

- ❖ Hurricane Wilma-October 2005 /\$5.5 million in FEMA funding, Removed 423 vessels & Removed 45,129 lobster/stone crab traps;
- ❖ Expert Witness in Biology, Florida Keys Biology & or Planning in 11 independent cases representing Monroe County and in one case for the U.S. Fish and Wildlife Service;
- ❖ Coral health/disease survey and monitoring;
- ❖ Coral habitat mitigation strategies involving physical collection, transplant, nursery care, and site restoration techniques;

Resume – George Stanley Garrett

♣ Technical aspects–research/monitoring, project review, & funding–Florida Keys National Marine Sanctuary (FKNMS) Water Quality Protection Program (WQPP); ∞ Florida Keys Water Quality Monitoring. MAJOR PROJECTS:

♣ Project Manager–Monroe County Sanitary Wastewater Master Plan;
∞Project Manager–Monroe County Stormwater Management Master Plan; ∞
Project Manager–Monroe County Residential Canal Inventory and Assessment.

♣ Development of Channel Marking Master Plan & Implementation Program

COMMITTEES:

♣ Member Management Committee for the FKNMS Steering Committee;

∞Member FKNMS WQPP Technical Advisory;

♣ Member City of Marathon, Nearshore Waters Committee.

PUBLICATIONS:

♣ 5 Publications in subjects related to Planning, Wastewater, and Water Quality;

♣ 3 video productions related to Wastewater, FKNMS No Discharge Zone & FKNMS artificial reefs

Director of Environmental Resources
Monroe County, Florida
10/1986 - 9/1991

Key West, Florida US
Salary: \$30,000 Per Year
Hours per week: 50 to 60

BUDGET: Project/Budget management \$250,000 annually.

GRANTS OVERSIGHT: Average \$40,000 annually.

STAFFING: Personnel Oversight–5 to 10 individuals – 1 Senior Biologist, 3 Permitting Biologists, 1 Code Enforcement Biologist, Administrative Staff.

PROGRAM OVERSIGHT:

♣ Development of environmental aspects of law & policy for Monroe County Comprehensive Plan;

♣ Permit over-site for residential/commercial/major projects including terrestrial/wetland habitat analysis or review, stormwater management approval & code compliance;

♣ Permit over-site for habitat removal & site mitigation;

♣ Permit over-site for docks & seawalls;

♣ Grant writing;

♣ Public Involvement & Outreach.

JOB SPECIFIC EXPERIENCE:

Resume – George Stanley Garrett

- ♣ Water Quality Monitoring for the impacts of nutrients from On-site Wastewater Systems.

MAJOR PROJECTS:

- ♣ Development of long-term Environmental Planning documents for Big Pine Key (Key Deer & Great White Heron National Wildlife Refuges) & North Key Largo (Crocodile Lake National Wildlife Refuge including Key Largo woodrat & cotton mouse, Schaus swallow tail butterfly), Developed 2nd and 3rd versions of the North Key Largo Habitat Conservation Plan

Environmental Resources Permitting Biologist

Monroe County, Florida
7/1985 - 9/1986

Marathon, Florida US
Salary: \$18,000 Per Year
Hours per week: 40 to 50

JOB SPECIFIC EXPERIENCE:

- ♣ Residential/commercial/large project environmental permit over site and permit application review;
- ♣ Completed reviews of habitat surveys;
- ♣ Completed marine habitat surveys and assessment for dock / seaway permits and dredge / fill activities.

MAJOR PROJECTS:

- ♣ Completed Habitat Evaluation Index internal assessments and project application review

Marine Biologist & Planner

Florida Department of Natural Resources, Aquatic Preserve Program
6/1984 - 6/1985

Marathon & Key Largo, Florida
Salary: \$15,000 Per Year
Hours per week: 40

JOB SPECIFIC EXPERIENCE:

- ♣ Completed extensive literature research in support of the Florida Keys Aquatic Preserve planning document;
- ♣ Completed numerous interviews of experts in the science & natural history of the Florida Keys;
- ♣ Attended multiple public meetings & workshops in support of the adoption of the Florida Keys Aquatic Preserve & the concomitant designation as "Outstanding Florida Waters."

MAJOR PROJECTS:

Resume' – George Stanley Garrett

♣ Developed & completed Management Plan under state Aquatic Preserve Program to designate the waters surrounding the Florida Keys as an Aquatic Preserve

JOB RELATED TRAINING

Certified Public Manager - Florida State University (June 2005)
Various Certifications - Environmental Systems Research Institute (ESRI)
American Planning Association (APA)
Certified Floodplain Manager (CFM)

AFFILIATIONS

Community Involvement

Chair / Board Member – Florida Keys National Marine Sanctuary Advisory Council
President – Florida Keys Land & Sea Trust (Crane Point Hammock)
President / Board Member - Leadership Monroe County.
Past President (2018-2020) / Board Member – Rotary Club of Marathon

Member

Aquarium Encounters of the Florida Keys
American Planning Association (FAPA & APA)
American Association of Floodplain Managers (FFMA & ASFPM)
Coral Restoration Foundation
Florida Keys Concert Association
Florida Keys Land & Sea Trust
Florida Audubon – Friends of Corkscrew Swamp
Key West Art & Historical Society
Key West Butterfly Conservancy
Leadership Monroe County
Marathon Community Theatre
Monterey Bay Aquarium
Rotary Club of Marathon

PROFESSIONAL PUBLICATIONS

Rios, Gus, William L. Kruczynski & George Garrett. 2012. "Water Pollution in the Florida Keys Comes From Many Different Sources," In Kruczynski, W.L. and P.J. Fletcher. 2012 Tropical Connections: South Florida's marine environment. IAN Press, University of Maryland Center for Environmental Science, Cambridge.

William L. Kruczynski, Rios, Gus, & George Garrett. 2012. "Nutrients and Pollutants From Residential Canals in the Florida Keys Contaminate Nearshore Coastal Waters," In Kruczynski, W.L. and P.J. Fletcher. 2012 Tropical Connections: South Florida's marine environment. IAN Press, University of Maryland Center for Environmental Science, Cambridge.

Resume – George Stanley Garrett

Garrett, G.S. 1991. Planning: A key to preservation. Pages 230-231. In, "The Monroe County Environmental Story." Editor, Jeannette Gato. Published by the Monroe County Environmental Education Task Force. LCC. No. 91-066317

Garrett, G.S. 1991. Sewage Treatment. Pages 286-288. In, "The Monroe County Environmental Story." Editor, Jeannette Gato. Published by the Monroe County Environmental Education Task Force. LCC. No. 91-066317

Garrett, G.S. 1991. A perspective on planning in the Florida Keys: Habitat-based land use planning. In "Case Studies of Coastal Management, Experience from the United States," Coastal Resources Center, the University of Rhode Island, CRC Pub. No. 1001

Lapointe, B.E., J.D. O'Connell, and G.S. Garrett 1990. Nutrient Couplings between on-site sewage disposal systems, groundwaters, and nearshore surface waters of the Florida Keys. *Biogeochemistry* 10:2289-2307.

Thiess, W.G., P.E., D.S. Coleman, M.S., J.E. Rich, P.E., B.D. Selle, P.E., and G.S. Garrett 1999. Utilization of GIS for Wastewater Master Planning in the Florida Keys. For the Florida Water Resources Conference

Video

"Our Water, Our Way of Life," Produced as part of the Monroe County Sanitary Wastewater Master Plan

"Mystery of the Adolphus Busch," Produced as part of the sinking of the Adolphus Busch 1, an artificial reef in the Lower Keys of the Florida National Marine Sanctuary. Permit holder for the wreck site.

Public Outreach "Importance of the No Discharge Zone Regulations," Broadcast as 30 second public service announcement on Comcast stations 2003 through 2007. Also presented as a message on the Weather Channel "Weather Crawl."

Alison Marie Higgins

City of Key West, Sustainability Coordinator **Jan 2012 - Present**
Coordination lead for 30 applications to FEMA/Florida current Grant Programs. Founding partner of Southeast Florida Regional Climate Change Compact. Active participant in Unified Sea Level Rise predictions, Vulnerability Analysis and Regional Climate Action Plan. Lead PI on Compact's Resilient Redesign, adaption planning exercise around 2' of sea level rise across the southeast section of Key West. Co-wrote City "Building Permit Allocation System" requiring basic green certification, cisterns and BFE 1.5 for all new residential buildings. Lead on Height Referendum vote to allow single family homes to raise out of the Base Flood Elevation.

Green Living & Energy Education, Inc. (GLEE), Executive Director **Dec 2005 – Jan 2012**
Founded and provided vision and leadership during startup of sustainability-based non-profit designed to serve as a catalyst to produce a culture change for individuals, businesses, and policy makers. Developed and nurtured productive relationships with key players at Keys Energy Services, Florida Keys Aqueduct Authority, Waste Management, Naval Air Station Key West, and all six Keys municipalities. Coordinated GreenGov, a bi-annual seminar for local policy makers which advocates and models possibilities for emission reductions. Provided research, support and advice to Key West and Monroe County on Climate Action Plans. Created annual Green Living Awards event to recognize local efforts. Served on Planning Team, Vulnerability Mapping Team, and Transportation Team for the Southeast Regional Climate Compact. Coordinated annual Green Living Expos, with budget of \$60K, serving 5,000 attendees.

The Nature Conservancy, Land Conservation Program Manager **Dec 1997 - June 2011**
Chair for multi-agency Florida Keys Invasive Exotics Task Force, received the U.S. Department of the Interior Cooperative Conservation Award and USFWS Power of Partnerships Award. Project Manager for Caribbean & Florida Fire & Invasives Learning Network, coordinated webinars and an annual workshop involving eight nations across the Caribbean. Developed and piloted Python Patrol Early Detection Rapid Response program, currently used throughout Florida. Project Manager for Florida Keys Sea Level Rise Coastal Resilience Tool project and Conservancy delegate for Gulf of Mexico Climate and Resiliency Engagement Panel. Applied, secured and managed over \$1 million in grants.

Friends And Volunteers Of Refuges (FAVOR), Chair **Dec 1998 – Jan 2012**
Volunteer for non-profit organization supporting the Florida Keys National Wildlife Refuges. Spearheaded Our Animal Family campaign (www.ouranimalfamily.org) to get "cat people", "raccoon people" and "bunny people" collaborating on a positive project to address predator impacts on the endangered Lower Keys Marsh Rabbit. Lobbied in congress for increased support for the National Wildlife Refuges. Designed and implemented opening of FAVOR's bookstore in 2000, now grossing \$36,000 annually. Supported international White-crowned pigeon workshop for twelve experts from six countries. As part of graduate school project, created "Keys Kids in Nature," a weeklong local environmental education and field trip program, tied to sunshine state standards for the 4th grade curriculum.

Education

Antioch University, Seattle

Master of Arts: Environment and Community, Graduated December 2005

University of California, Santa Barbara

Bachelors of Science: Aquatic Biology, minor in Zoology, Graduated December 1996

University of Queensland, Australia

1995: Two semester Study Abroad Program, focus on Marine Biology

1

Community Development Block Grant-Mitigation Program

Florida Keys Regional Resilience Plan and Neighborhood Livability Outreach and Planning

Community Value

Community Value

Frequent, but relatively “low impact” flooding events result in a variety of consequences to both the County, its residents, and community lifelines. Prolonged saltwater inundation causes damage to personal and real property, the loss of access to residential homes, and the ability for first responders to access the flooded neighborhoods in times of emergency. This consequence is pronounced as the tidal schedule often acts to keep flooding in place for six hours or more. The flood waters are brackish resulting in more significant damage to automobiles and any other structure or material that come into contact with the flood waters.



In developing the proposed mitigation solution, the County was forced to accept the reality that it possessed limited ability to actually “prevent” the flooding conditions caused by flooding and sea level rise. Monroe County is almost uniformly low-lying islands, set upon porous limestone that allows water to easily penetrate it from all directions. Building a protective barrier, such as a seawall, with assorted positive pumping capacity around the neighborhoods, would not block the floodwater as it would on the Florida mainland. Flood waters continue to seep through the limestone into the “protected areas”. In addition, as reflected in FEMA’s Flood Insurance Study, significant flooding events, e.g., the “50-year” flood, would simply overtop any attempt to keep flood waters outside of a barrier.

Of all the options investigated, elevating key sections of roadway in order to eliminate, to the greatest extent feasible, impassable flooding conditions, generally provides the most benefit for the effort. Elevating of roadways would also provide roadway stormwater control that doesn’t exist now.

Community Value During Disasters

The local county and city roads provide lifesaving access for search and rescue operations, emergency medical services, and entry of goods and supplies. Without

functioning roadways, operational storm-water systems, and supporting infrastructure neighborhoods cannot remain viable in the long-term or recovery in the immediate aftermath of a disaster.

Community Lifelines

With the development of the Countywide Neighborhood Flood Mitigation Planning Project, we would be strengthening numerous Monroe County community lifelines including the following:



Safety and Security: The ongoing viability of communities will rest upon neighborhood access to lifesaving services and critical facilities. Reestablishing community safety in the aftermath of a disaster is at the core of post disaster response operations. Maintaining access to residential areas is vital to conduct, *law enforcement and security activities, fire services, search and rescue* and other vital governmental services such as impact and damage assessment. Functional roadways is vital reestablishing safe and secure neighborhoods.



Health and Medical: Disaster Victims may require medical care, patient movement, public health support, and medical supplies in the aftermath of a large-scale disaster. Elevating roadways and draining stormwater is vital to reestablishing the health and medical lifelines of the neighborhoods. Flooded roadways, failing storm-water system, and associated environment health risk due to water contamination will pose a direct threat to residents.



Transportation: Continued movement of vital goods and services by land, air, and sea will be affected by this analysis. Roadways form the foundation of land-based transportation.

Community Resilience



Monroe County, Florida, encompasses the uniquely beautiful natural environment of the Florida Keys and is among the most vulnerable communities in the nation to rising sea levels, with a 120-mile archipelago of islands most of which are at or near sea level. The county and municipalities recognize the need for immediate, coordinated, and visionary action to address the impacts of a changing climate and ensure the entire region provides for resilience for its more than 560 miles of locally-maintained roads and infrastructure. Monroe County's GreenKeys Resilience and Sustainability Plan includes cross-cutting strategies and various road and infrastructure adaptation goals. The recommendation for a Roads Adaptation Plan is



Green Keys item 2-14, which specifies that the County shall conduct a County-wide roads analysis to identify near-term roads subject to inundation risk, including nuisance flooding, and that include related green infrastructure where appropriate.

Community Involvement in the Planning Process

As the Florida Keys, the State of Florida, and the nation face the threat of sea level rise, we will all be in a position to make difficult decision. This project is an important linkage to advance not only the understanding of the data surrounding sea level rise, but also to educate the public, build awareness of future impacts, and collaborate on solutions to building community resilience. As the county and municipal jurisdictions begin to face the real and impending costs associated with rising seas, the strategic policy decisions will be highly challenging. This project will provide important empirical evidence to inform these challenging conversations. While Phase I and II are largely data driven activities, they lay the foundation for Phase III the neighborhood-based planning initiatives. We propose the following public engagement activities during Phase III:

Neighborhood Based Public Meetings

Once the Project Manager, planning consultants, and key stakeholders have completed the initial neighborhood- based analysis, and drafted an initial plan, we will conduct one neighborhood- based public meeting for six neighborhoods that details conditions, triggers and allows public input on key decision points including the following:

1. Identify their community preferences, special needs and concerns of how sea level rise will impact their quality of life. The meeting must be used to communicate available options for neighborhood road, stormwater management, and infrastructure resilience.
2. Identify handicapped or vulnerable residents within the communities who may have difficulty navigating access to newly elevated road, driveways or mailboxes
3. Identify potential benefits and losses each neighborhood project may bring, i.e. access, walkability, recreational opportunities, private property encroachment, affordability, etc.
4. Develop conceptual drawings and images illustrating the potential inundation of the roads from sea level rise, the available options for road adaptation and the look of each option if built. This visual reinforcement provides powerful incentive to seek unified solutions.



5. Conduct a cost benefit analysis of each pilot project, measuring the cost of implementation and maintenance versus the construction cost and the life cycle of the project. In the most vulnerable areas, the best solutions may not be road elevation but instead may involve retreat strategies triggering the need to support relocations.

6. Develop final recommendation report for each neighborhood project, including recommended road elevations and drainage based on science, engineering, community input and preferences, public safety, environmental quality and conservation, as well and long-term economic viability.

Regional Input: The unique environmental and geography of the Florida Keys demand unique solutions to the challenges of sea level rise. Monroe County has been an active member of the South Florida Regional Climate Change Compact and recently hosted to the 2020 Climate Change Summit in Key West. While we understand the importance and value of regional engagement with our neighboring counties, the policy and structural solutions to rising sea in the Florida Keys are very different than those in Monroe County, Broward County, or Palm Beach County. We welcome the technical expertise and lessons learned from our regional partners but find local sea level rise implementation requires local adaptation.

Once we draft our plan, we will post it online for review throughout the region with an opportunity for public comment. The plans will also be forwarded to important community partners in the region including the South Florida Regional Planning Council, the South Florida Regional Climate Change Compact.

Leadership Approval: Engagement of the political and administrative leadership in unincorporated Monroe County and each of the municipal jurisdictions in sea level rise implications has been noticeably forward thinking. Monroe County is the most vulnerable Florida community, it is also one of the most progressive in acknowledging the upcoming challenges and tackling viable solutions. Monroe County is currently engaged in three simultaneous projects with vital sea level rise implications including the United States Army Corp of Engineers Florida Keys *coastal storm vulnerability study*, the Department of Environmental Protection (DEP) grant funded *Adaptation Action Areas* policy implementation project, and Monroe County's own *Roads Adaptation and Stormwater Resilience* Project. Each of these projects illustrates the counties commitment to building a stronger and more resilient Florida Keys. This project similarly advances the countywide understanding to maintain residential roadways and thereby sustaining housing.

Upon completion of all project elements, each of the jurisdictions will present the findings to their elected officials at a public meeting.



Published Weekly
Marathon, Monroe County, Florida

PROOF OF PUBLICATION

**STATE OF FLORIDA
COUNTY OF MONROE**

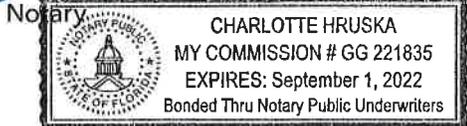
Before the undersigned authority personally appeared **JASON KOLER** who on oath, says that he is **PUBLISHER of the WEEKLY NEWSPAPERS**, a weekly newspaper published in Marathon, in Monroe County, Florida; that the attached copy of advertisement was published in said newspaper in the issues of: (date(s) of publication)

July 9, 2020

Affiant further says that the said **WEEKLY NEWSPAPERS** is a newspaper published at Marathon, in said Monroe County, Florida, and that the said newspaper has heretofore been continuously published in said Monroe County, Florida, once each week (on Thursday) and has been qualified as a second class mail matter at the post office in Marathon, in Monroe County, Florida, for a period of one year next preceding the first publication of the attached copy of advertisement. The affiant further says that he has neither paid nor promised any person, firm, or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper(s) and that The Weekly Newspapers is in full compliance with Chapter 50 of the Florida State Statutes on Legal and Official Advertisements.


Sworn to and subscribed before me this 9th day of July, 2020.

(SEAL)

NOTICE OF PUBLIC MEETING
NOTICE IS HEREBY GIVEN TO WHOM IT MAY CONCERN, that on Wednesday, July 15, 2020, at 1:30P.M., the Board of County Commissioners of Monroe County, Florida, intends to consider the following:
A VIRTUAL PUBLIC MEETING REGARDING APPROVAL TO APPLY TO THE DEPARTMENT OF ECONOMIC OPPORTUNITY ("DEO") FOR COMMUNITY DEVELOPMENT BLOCK GRANT-MITIGATION (CDBG-MIT) FUNDING FOR THE BELOW-DESCRIBED PROJECTS:
1. Florida Keys Regional Resilience Plan and Neighborhood Livability Outreach and Planning
In compliance with program requirements, the applications has been posted for public comment at the following website: <http://www.monroecounty-fl.gov/1200/CDBG-Mitigation-Programs> for a 14-day public comment period. The State of Florida, Department of Economic Opportunity has allocated \$20 Million to the General Planning Support Program, funded through the Community Development Block Grant-Mitigation (CDBG-MIT) Program. The GPS will allow units of general local government (UGLG) and state agencies to develop mitigation plans that will build a foundation for continuous coordination and data-driven outcomes in the State of Florida. Pursuant to Executive Order No. 20-69, Monroe County Emergency Directive 20-06, and the Center for Disease Control ("CDC") social-distancing guidelines established to contain the spread of the COVID-19 virus, the July 15, 2020, meeting of the Board of County Commissioners of Monroe County, Florida, will be conducted via Communication Media Technology ("CMT"), using a Zoom Webinar platform. Executive Order 20-150 extends EO 20-69. If the Governor issues a subsequent order changing directives for Local Government Public Meetings, the County will provide updates on the County Website at MonroeCounty-FL.Gov. Public Hearings will commence at 1:30P.M. Below are the various options available to the public to view the live meeting and/or to make public comments on certain agenda items. The public is strongly encouraged to watch the meeting on Monroe County's MCTV Comcast Channel 76, or listen to audio-only from their phones by dialing (646) 518-9805 and, when prompted, enter the Webinar ID number 966 7596 0018 followed by the # key. The public can watch the meeting online by visiting the County's meeting portal at: <http://monroecountyfl.lqmz.com/Citizens/Default.aspx> to view with live closed-captioning on an integrated page that includes the Agenda/Agenda backup.

If a person wishes to comment on a particular item on the agenda, when the Mayor calls for speakers on the item on which you wish to comment:
a) If phoning in: Dial *9 to "raise your hand" to be recognized by the Zoom webinar monitor;
b) If watching online: open the Zoom Webinar link below: <https://monroecounty-fl.gov/BoccMeetingJuly15>
When prompted, enter your email address and name to join the webinar and be recognized by the meeting monitor. The live Zoom Webinar link also appears in the published Agenda and Agenda Packet.
A person may submit written or other physical evidence on a particular agenda item for consideration at the BOCC meeting to: Lindsey Ballard, via email, to: ballard-lindsey@monroecounty-fl.gov, or by mail to: The County Administrator's Office, 1100 Simonton Street, Key West, FL 33040. The documents must be received by 9:00A.M. on Monday, July 13, 2020, and must include the submitter's name, address, phone number, email address, and the agenda item number to which the documents refer.
For additional assistance, please call (305) 292-4441, or email your request to your request or inquiry to:
Lindsey Ballard (ballard-lindsey@monroecounty-fl.gov), or Liz Yongue (yongue-liz@monroecounty-fl.gov) ADA ASSISTANCE: If you are a person with a disability who needs special accommodation in order to participate in this meeting, please contact the County Administrator's Office, by phoning (305) 292-4441, between the hours of 8:30 a.m.--5:00 p.m., no later than five (5) calendar days prior to the scheduled meeting; if you are hearing-or voice-impaired, call "711". Pursuant to Section 286.0105, Florida Statutes, notice is given that if a person decides to appeal any decision made by the Board with respect to any matter considered at such hearings or meetings, such person will need a record of the proceedings, and that, for such purpose, such person may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based.
Dated at Key West, Monroe County, Florida, this 2 day of July, 2020.
KEVIN MADOK, Clerk of the Circuit Court and ex officio Clerk of the Board of County Commissioners of Monroe County
Publish:
July 9, 2020
The Weekly Newspapers

THE CITIZEN

KEY WEST

The Florida Keys Only Daily Newspaper, Est. 1876
PO Box 1800, Key West FL 33041
P: (305) 292-7777 ext. 219 F: (305) 295-8025
legals@keysnews.com

MONROE CO PLANNING DEPT
MURRY E NELSON GOVERNMENT CENTER
102050 OVERSEAS HWY
KEY LARGO FL 33037

Account: 138694

Ticket: 349076

PUBLISHER'S AFFIDAVIT

STATE OF FLORIDA COUNTY OF MONROE

Before the undersigned authority personally appeared

MICHAEL LEWIS, who on oath says that he or she is

AN EMPLOYEE of the Key West Citizen, a daily newspaper published in Key West, in Monroe County, Florida; that the attached copy of advertisement, being a legal notice in the matter of HEARING 7.15 was published in said newspaper in the issues of:

Wednesday, July 8, 2020

Affiant further says that the Key West Citizen is a newspaper published in Key West, in said Monroe County, Florida and that the said newspapers has heretofore been continuously published in said Monroe County, Florida every day, and has been entered as periodicals matter at the post office in Key West, in said Monroe County, Florida, for a period of 1 year next preceding the first publication of the attached copy of advertisement; and affiant further says that he or she has neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper.

(Signature of Affiant)

Affirmed and subscribed before me this 8th day of July 2020

Suehyn Stamper
(Notary Public Signature)

SUEHYN STAMPER
(Notary Public Printed Name)

My commission expires 6/27/22

Personally Known Produced Identification

Type of Identification Produced _____

NOTICE OF PUBLIC HEARING

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A VIRTUAL PUBLIC MEETING REGARDING APPROVAL TO APPLY TO THE DEPARTMENT OF ECONOMIC OPPORTUNITY ("DEO") FOR COMMUNITY DEVELOPMENT BLOCK GRANT-MITIGATION (CDBG-MIT) FUNDING FOR THE BELOW-DESCRIBED PROJECTS:

1. Florida Keys Regional Resilience Plan and Neighborhood Livability Outreach and Planning

In compliance with program requirements, the applications has been posted for public comment at the following website: <http://www.monroecounty-fl.gov/1200/CDBG-Mitigation-Programs> for a 14-day public comment period.

The State of Florida, Department of Economic Opportunity has allocated \$20 Million to the General Planning Support Program, funded through the Community Development Block Grant-Mitigation (CDBG-MIT) Program. The GPS will allow units of general local government (UGLG) and state agencies to develop mitigation plans that will build a foundation for continuous coordination and data-driven outcomes in the State of Florida.

Pursuant to Executive Order No. 20-69, Monroe County Emergency Directive 20-06, and the Center for Disease Control ("CDC") social-distancing guidelines established to contain the spread of the COVID-19 virus, the July 15, 2020, meeting of the Board of County Commissioners of Monroe County, Florida, will be conducted via Communication Media Technology ("CMT"), using a Zoom Webinar platform. Executive Order 20-150 extends EO 20-69. If the Governor issues a subsequent order changing directives for Local Government Public Meetings, the County will provide updates on the County Website at MonroeCounty-FL.Gov. Public Hearings will commence at 1:30P.M. Below are the various options available to the public to view the live meeting and/or to make public comments on certain agenda items.

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- b) **If watching online:** open the Zoom Webinar link below: <https://monroecounty-fl.gov/Boccc-MeetingJuly15>

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For additional assistance, please call (305) 292-4441, or email your request to your request or inquiry to: Lindsey Ballard (ballard-lindsey@monroecounty-fl.gov), or Liz Yongue (yongue-liz@monroecounty-fl.gov)

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Pursuant to Section 286.0105, Florida Statutes, notice is given that if a person decides to appeal any decision made by the Board with respect to any matter considered at such hearings or meetings, such person will need a record of the proceedings, and that, for such purpose, such person may need to ensure that a verbatim record of the proceed-



ings is made, which record includes the testimony and evidence upon which the appeal is to be based.

Dated at Key West, Monroe County, Florida, this 2 day of July, 2020.

KEVIN MADOK, Clerk of the Circuit Court and ex officio Clerk of the Board of County Commissioners of Monroe County, Florida
07/08/20 Key West Citizen

Excerpt of Monroe County Board of County Commissioners, July 15, 2020 Meeting

Public Hearing Item P.11

A full copy of the Board Agenda may be viewed:

<http://monroecountyfl.iqm2.com/Citizens/FileOpen.aspx?Type=14&ID=1135&Inline=True>



REVISED AGENDA

MONROE COUNTY BOARD OF COUNTY COMMISSIONERS

PUBLIC NOTICE

July 15, 2020 Regular Meeting

Zoom webinar: <https://www.monroecounty-fl.gov/BocccMeetingJuly15>

Pursuant to *Executive Order No. 20-69 (extended by Executive Orders No. 20-112, 20-139 and 20-150)*, *Monroe County Emergency Directives 20-06 and 20-10*, and the Center for Disease Control ("CDC") social distancing guidelines established to contain the spread of the COVID-19 virus, the **July 15, 2020 Regular Meeting** of the Board of County Commissioners of Monroe County, FL will be conducted via Communication Media Technology ("CMT") using a Zoom Webinar platform. **The meeting will commence at 9:00 A.M.** Below are the various options available to the public to view the live meeting and/or to make public comments on certain agenda items during the public portion of the meeting.

The public is strongly encouraged to watch the meeting on **Monroe County's MCTV on Comcast Channel 76** or **AT&T UVerse Channel 99**. Also, if a citizen has a **Roku** device, they can search for and add "MCTV" to their personal lineup. Monroe County's "MCTV" is also provided via the Monroe County mobile apps for **iOS** and **Android** and through our streaming web portal @ <https://monroe-fl.vod.castus.tv/vod/?live=ch1&nav=live>. Citizens can **listen to audio only from their phone by dialing (646) 518-9805 or (669) 900-6833** and, when prompted, enter the **Webinar ID# 966 7596 0018** followed by the # key.

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If a person wants to comment on a particular item on the public portion of the agenda, when the meeting host and/or the Mayor calls for speakers on the item you wish to comment on:

- a) If phoning-in: dial *9 to "raise your hand" to be recognized by the Zoom webinar monitor.
- b) If watching the meeting online: click on/open the live Zoom webinar link <https://www.monroecounty-fl.gov/BocccMeetingJuly15> that appears in both the published Agenda and Agenda Packet. When prompted, enter your email address and name to join the webinar and then select the "Raised Hand" feature that appears at the bottom of the Zoom webinar screen to be recognized by the meeting monitor.

The meeting monitor/host will request item # you wish to speak on and enable your participation when the Mayor calls for public speakers on your item. **To report problems with the broadcast, please call (305) 872-8831.**

A person may submit written or other physical evidence on a particular agenda item for consideration at the BOCC meeting to Lindsey Ballard via email to: ballard-lindsey@monroecounty-fl.gov or by mail to: The County Administrator's Office, 1100 Simonton Street, Key West, FL 33040. The documents must be received by 3:00 p.m. on Monday, July 13, 2020 and must include the submitter's name, address, phone number and email address and the agenda item number the documents are regarding.

For additional assistance, please call (305) 292-4441 or email your request or inquiry to:
Lindsey Ballard: ballard-lindsey@monroecounty-fl.gov
Liz Yongue: yongue-liz@monroecounty-fl.gov

1:30 P.M. P. PUBLIC HEARINGS (CONTINUED)

11. LOCAL DISASTER RECOVERY: A Public Meeting for citizens and municipalities to provide input on an application for grant funds to develop a Regional Resilience Plan in the amount of \$2,652,825 (Key West: \$841,735; Marathon: \$471,132; Islamorada: \$546,771; Unincorporated Monroe: \$450,000; Key Colony Beach: \$53,781; Layton: \$16,080 and a 5% administrative fee) utilizing Community Development Block Grant - Mitigation, General Planning Support funding from the Florida Department of Economic Opportunity (DEO) funded through the Federal Housing and Urban Development Agency (HUD), after a duly noticed 14 day public comment period; after a 5 day public notice and Approval to submit grant application to DEO.

Q. COMMISSIONER'S COMMENTS

R. ADD ONS

1. **COUNTY ATTORNEY:** Approval of an agreement with Lewis, Longman & Walker, P.A. to provide joint legal representation with the FCAA in the matter of FCAA v FPL and FDEP, DOAH Case Number 20-002967.
2. **COUNTY ATTORNEY:** Appointment of a substitute and an alternate member for the Monroe County Canvassing Board for the 2020 primary and general elections.
3. **COUNTY ATTORNEY:** Approval of pre-suit settlement agreement waiving fines and costs in CE16100059 and CE18060016 in consideration of contemporaneous donation of Tract PT, Pine Key Acres, Big Pine Key (RE00111074-040000 29760 Chickasaw Street, Big Pine Key) to the Monroe County Land Authority for conservation purposes.
4. **TAX COLLECTOR:** Approval to extend the 2020 Tax Roll and mail the bills prior to completion of the Value Adjustment Board Hearing.
5. **BUDGET AND FINANCE:** Ratification of federally-funded sub-award and grant agreement between Monroe County and Florida Division of Emergency Management (FDEM) for CARES Act Funding.

5



County Commission Meeting
July 15, 2020
Agenda Item Number: P.11
Agenda Item Summary #6956

BULK ITEM: No

DEPARTMENT: Local Disaster Recovery

TIME APPROXIMATE:
2524
1:30 pm

STAFF CONTACT: Helene Wetherington (305) 289-

AGENDA ITEM WORDING: Public Meeting for citizens and municipalities to provide input on an application for grant funds to develop a Regional Resilience Plan in the amount of \$2,652,825 (Key West: \$841,735; Marathon: \$471,132; Islamorada: \$546,771; Unincorporated Monroe: \$450,000; Key Colony Beach: \$53,781; Layton: \$16,080 and a 5% administrative fee) utilizing Community Development Block Grant - Mitigation, General Planning Support funding from the Florida Department of Economic Opportunity (DEO) funded through the Federal Housing and Urban Development Agency (HUD), after a duly noticed 14 day public comment period; after a 5 day public notice and Approval to submit grant application to DEO.

ITEM BACKGROUND:

Hurricane Irma, a Category 4 hurricane, made landfall in the Florida Keys on September 10, 2017, causing the destruction and significant flooding of low-lying areas throughout the Florida Keys. Congress appropriated \$633 Million for the State of Florida in the aftermath of Hurricane Irma for the Community Development Block Grant - Mitigation (CDBG-MIT) Program. The Florida Department of Economic Opportunity developed an Action Plan and allocated \$20 Million for the General Planning Support Program. In order to build more resilient neighborhoods countywide which are in the highest risk for sea level rise, staff request approval to submit a CDBG-MIT grant application to draft a regional resilience plan in partnership with the municipalities of Monroe County.

DEO Program Parameters follow:

2.3 Rebuild Florida General Planning Support (GPS) Program Overview

The GPS program is designed to provide funding opportunities to units of general local government (UGLG), educational institutions, state agencies, and non-profits the purposes of developing and updating state, regional and local plans.

DEO recognizes that planning is an important aspect of mitigation and that not all UGLGs have access to full-time planning staff. The GPS program provides rarely accessible funds to create regional plans that will enable the state of Florida to withstand future disasters.

HUD has recognized that the most effective mitigation strategies are regional in scale. For this reason, HUD waived the requirements at 24 CFR 570.483(b)(5), which limit the circumstances under which planning activities may meet a low- to moderate-income national objective. Instead, Florida is required to comply with 24 CFR 570.208(d)(4) when funding planning grants. HUD recommends that planning activities be coordinated with local governments and regional planning councils.

DEO has allocated \$20,000,000 in CDBG-MIT funding for the GPS program. DEO will use a subrecipient model to deliver funding for approved projects. Funding will be awarded to selected subrecipients through a request for applications (RFA) process in accordance with established application guidelines and evaluation criteria. This is not a direct grant program.

An overview of the GPS program is illustrated in **Table 2**.

Table 2: GPS

Rebuild Florida General Planning Support Program	
Funding Dollars	\$20,000,000
Funding Percentage	3%
Application Type	Subrecipient
Applicant Eligibility	UGLG, state agencies, non-profits, and educational institutions
Geographic Eligibility	HUD and State-Designated MID areas
National Objectives Fulfilled	LMI and Urgent Need
Hazard Risks Addressed	Flooding, Severe Storms, Tropical Cyclones, Coastal Erosion, Wildfires
Lifelines Protected	Safety and Security, Food, Water and Shelter, Health and Medical, Energy, Communication, Transportation, and Hazardous Materials

- Maximum amount per project: \$10 million
- Minimum amount per project: \$20,000

The Project will be conducted in three phases.

- **Phase I: GIS Mobile LiDAR Data Collection – (Cities Only)**

The Phase I geospatial data collection utilizing mobile LiDAR technology for the cities only in Monroe County is estimated in the table below. Monroe County has previously completed this analysis at its own cost of \$530,000 and therefore has not been included in the request for funding in Phase I.

	Mileage	Budget
Islamorada	69	\$ 130,000
Key West	93	\$ 280,000
Marathon	78	\$ 147,000
Layton	2	\$ 4,000
Key Colony Beach	7	\$ 11,500
Unincorporated Monroe County (already completed)	NA	NA
Total	249 Miles	\$572,500

- **Phase II: Vulnerability Analysis and Planning: (Cities Only)**

The vulnerability analysis will identify where the water inundation will be on the within various points of time, how much the water will rise affecting critical services and lifelines (roads, critical facilities) and a plan for roads adaptation will be developed. Monroe County is in the process of completing this analysis at its own cost of \$1.8 Million and therefore has not been included in the request for funding in Phase II. The total cost for this phase is estimated at **\$ 1,504,000**.

Phase II Funding Allocation Request by Jurisdiction	Mileage	Budget
Islamorada	69	\$416,771.08
Key West	93	\$561,734.94
Marathon	78	\$471,132.53
Layton	2	\$12,080.32
Key Colony Beach	7	\$42,281.13
Unincorporated Monroe County (already in progress)	NA	NA
Total	249 Miles	\$ 1,504,000

- **Phase III: Neighborhood based Resilience Planning: (County Only)**

Select up to 6 highest risk and low-income neighborhoods to identify resilience related challenges, functionality, and quality of life issues specific to each of the pilot neighborhoods. The project is estimated at **\$ 450,000**. This will occur while Phase I & II are occurring.

Phase III Funding Allocation Request by Jurisdiction	# of Neighborhoods	Budget
Islamorada	NA	NA
Key West	NA	NA
Marathon	NA	NA
Layton	NA	NA
Key Colony Beach	NA	NA
Unincorporated Monroe County	6	\$450,000
Total		\$450,000

Total Budget Funding Request for the Project by Jurisdiction

Total Funding Allocation Request by Jurisdiction	Phase I	Phase II	Phase III	Total
Islamorada	\$130,000	\$416,771.08	\$ 0	\$546,771
Key West	\$280,000	\$561,734.94	\$ 0	\$841,735
Marathon	\$147,000	\$471,132.53	\$ 0	\$618,133
Layton	\$ 4,000	\$ 12,080.32	\$ 0	\$ 16,080
Key Colony Beach	\$ 11,500	\$ 42,281.13	\$ 0	\$ 53,781
Unincorporated Monroe County	0	NA	\$450,000	\$450,000
Project Administrative Cost				\$126,325
Total	\$ 572,500	\$ 1,504,000	\$450,000	\$ 2,652,825

Timeline: The project will be completed over a 36 months period (12 Quarters) following the general implementation schedule below:

	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12
Phase I (cities only)												
Phase II (cities only)												
Phase III (county only)												

To be eligible to receive funds, Monroe County has partnered with the municipalities of the county to develop this regional, high impact planning support project. This meeting serves as a public meeting to hear public comment. The County has met the CDBG-MIT and DEO requirements for notice and documentation. As per the grant requirements, public notice of this public meeting and public notice of the 14-day public comment period was published in the Citizen, as the newspaper of general circulation in Monroe County and also posted to the County’s website.

No match funding is required.

Administrative funding to manage the grant is: \$126,325

Contact Person: Rhonda Haag at Haag-Rhonda@monroecounty-fl.gov. Monroe County’s application for CDBG-DR Mitigation funds can be found at monroecounty-fl.gov/irmarecovery.

PREVIOUS RELEVANT BOCC ACTION: N/A

CONTRACT/AGREEMENT CHANGES:
NA

STAFF RECOMMENDATION: APPROVE

DOCUMENTATION:

general-planning-support-guidelines-with-appendices
Monroe County Regional Resilience Project All 06-30-2020

FINANCIAL IMPACT:

<p>Effective Date: PENDING Expiration Date: Total Dollar Value of Contract: NA Total Cost to County: None Current Year Portion: NA Budgeted: No Source of Funds: NA</p>
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CPI:**Indirect Costs:****Estimated Ongoing Costs Not Included in above dollar amounts:****Revenue Producing:** NA **If yes, amount:****Grant:** \$ 2,652,825 which includes a 5% administrative cost**County Match:** \$ 0**Insurance Required:** 0**Additional Details:****REVIEWED BY:**

Helene Wetherington	Completed	06/24/2020 3:24 PM
Rhonda Haag	Completed	06/30/2020 8:34 AM
Assistant County Administrator Christine Hurley	Completed	Completed
	06/30/2020 4:15 PM	
Steve Williams	Completed	07/01/2020 7:42 AM
Christine Limbert	Skipped	06/30/2020 5:14 PM
Purchasing	Completed	07/01/2020 8:02 AM
Budget and Finance	Completed	07/01/2020 8:28 AM
Maria Slavik	Completed	07/01/2020 8:31 AM
Kathy Peters	Completed	07/01/2020 10:06 AM
Board of County Commissioners	Pending	07/15/2020 9:00 AM

Monroe County Board of County Commissioners Virtual
Log of Attendees

Participant	Join Time	Leave Time
19043	8:56 AM	11:00 AM(190
13052944641	10:38 AM	12:09 PM(130
13053047467	9:27 AM	11:02 AM(130
13053047467	2:53 PM	04:10 PM(130
13053047467	1:31 PM	04:10 PM(130
13053408526	10:37 AM	12:06 PM(130
13053408526	1:00 PM	04:15 PM(130
13053408526	4:21 PM	04:46 PM(130
13053408526	4:49 PM	07:22 PM(130
13053944477	4:18 PM	04:31 PM(130
13053952565	2:18 PM	04:50 PM(130
13053952565	6:34 PM	07:18 PM(130
13055043036	11:48 AM	12:44 PM(130
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13057740110	3:13 PM	04:07 PM(130
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13057971906	4:55 PM	05:40 PM(130
13057972094	10:20 AM	10:46 AM(130
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16148174209	1:26 PM	01:34 PM(161
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Carole Montanaro	7:05 PM 07:24 PM(Car
Cary Knight	9:56 AM 09:56 AM(Car
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Cheryl Sullivan	8:57 AM 01:33 PM(Che
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Daryl Greenlee	12:25 PM 12:25 PM(Dar
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Dawn	1:52 PM 02:18 PM(Dav
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Dee Lucas	12:52 PM 12:53 PM(Dec
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Kristen Nye	6:36 PM 06:45 PM(Kris
Kristina Pooley	1:26 PM 08:06 PM(Kris
Kyle Rizzo	7:13 PM 08:06 PM(Kyl
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COMMUNITY DEVELOPMENT BLOCK GRANT – MIT
HURRICANE IRMA FUNDING

INFRASTRUCTURE MITIGATION PROGRAM

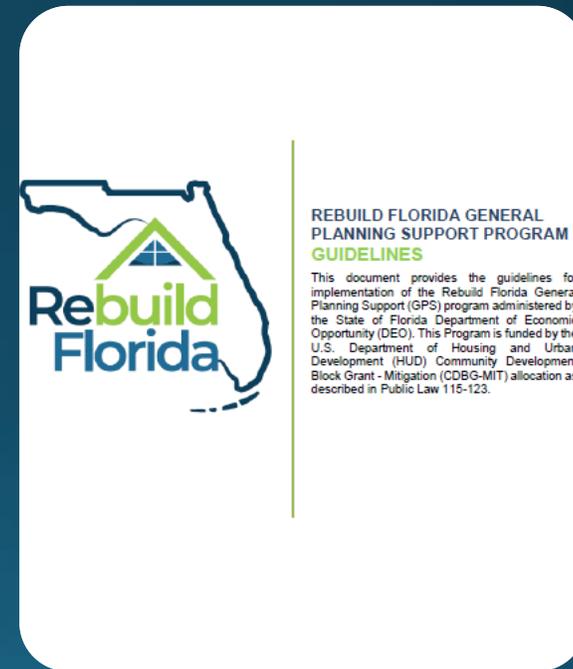
\$633,485,000 STATEWIDE

JULY 15, 2020



CDBG-MIT Funding Released for General Planning Support

- \$20 Million dedicated to General Planning Support
- Maximum Support is \$10 Million and minimum award \$20,000
- Projects must affect more than one jurisdiction (regional)



December 2019: Resilience Strategy

Monroe Countywide Flood Mitigation and Sea Level Rise Resilience Program



REQUEST

Monroe County and its municipalities request a \$150 million set-aside in the CDBG-MIT Action Plan for the **Monroe County Flood Mitigation and Sea Level Rise Resilience Program.**

OUTCOMES

With this set-aside of U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant – Mitigation Program (CDBG-MIT) funding we will:

- Continue planning and policy development efforts to project sea level rise on island infrastructure and the environment, creating a Keys-wide plan for resilience.
- Elevate and improve stormwater along roadways that connect to critical evacuation routes including retention, drainage, and treatment to enhance water quality.
- Improve critical infrastructure by relocating it from low-lying areas; hardening it against future storms or flooding; or elevating it for future resilience.
- Restore natural shorelines to protect inland areas and/or harden shorelines for resilience.
- Protect Drinking water through reverse osmosis improvements to existing systems.
- Elevate or replace homes to mitigate the impacts of flooding and sea level rise.
- Buyout low-lying areas with repetitive loss properties or those that are not suitable for redevelopment.

BACKGROUND

Success of Enhanced Building Standards: Hurricane Irma devastated the Florida Keys, highlighting the profound vulnerability of this island chain. When debris was cleared, homes built to current building code standards, stood as shining examples of resilient construction and sound investments. Future climate change projections intensify the current vulnerabilities with unprecedented sea level rise. As a



a hurricane. In 2023, the Keys are projected to be at maximum development capacity, which will present legal challenges for both the state and local governments when private landowners cannot develop their land.

Advanced Methodologies and Technologies: The 2015 *Monroe Countywide Local Mitigation Strategy* (LMS) recognizes future scenarios for increased flood risk due to sea level rise and will be updated in 2020 to incorporate mitigation measures gained over the past four years through resiliency planning efforts. Recently, Monroe County submitted a grant application to the *Florida Department of Environmental Protection* to update its vulnerability assessment using new mobile LIDAR elevation data to better define sea level rise adaptation strategies. With this information, the County will develop *Adaptation Action Areas* that target programs for infrastructure and nature-based resiliency, land acquisition and voluntary buyouts, business mitigation assistance prioritizing the designated Opportunity Zone, hardening or the restoration of shorelines with natural vegetation, the elevation of homes and other critical public facilities, and potential resiliency regulations for private developments to accommodate current and future flood risk.

PHASED IMPLEMENTATION

The Florida Keys would like to become the **nationwide model for long-term and holistic flood adaptation in island communities.** The implementation of this program will be led by an inter-jurisdictional group of elected officials and supported by local government staff work groups and citizens. This group will explore existing frameworks to serve as models for coordination as well as fair and equitable distribution of funding throughout all the island communities. The proposed regional, multi-year program will include phases to not only complete modeling needed for development of projects that address the vulnerability of infrastructure, public facilities as well as residential and commercial areas but also the construction of infrastructure or nature-based solutions to prepare for future flood risk. Projects are tied to the Seven Community Lifelines of Risk Reduction to reduce disruptions in service and stabilize the island disaster.

Phase 1: \$7.5 million
Monroe County: 2020-21
Municipalities: 2021-23

• **Sea Level Rise Modeling and Data Finalization:** Monroe County and its municipalities will first complete enhanced countywide modeling for sea level rise (this effort is currently underway). Additional ground level data will be collected in order to prioritize countywide programs and projects.

Phase 2: \$15 million
Monroe County: 2021-23
Municipalities: 2023-24

• **Policy and Program Development:** This phase will consider policy and designing programs for sea level rise including resiliency infrastructure improvements or other projects for sea level rise.

Phase 3: \$127.5 million
Countywide: 2023-30

Implementation of the program will be led by an inter-jurisdictional group of elected officials and supported by local government staff work groups and citizens.

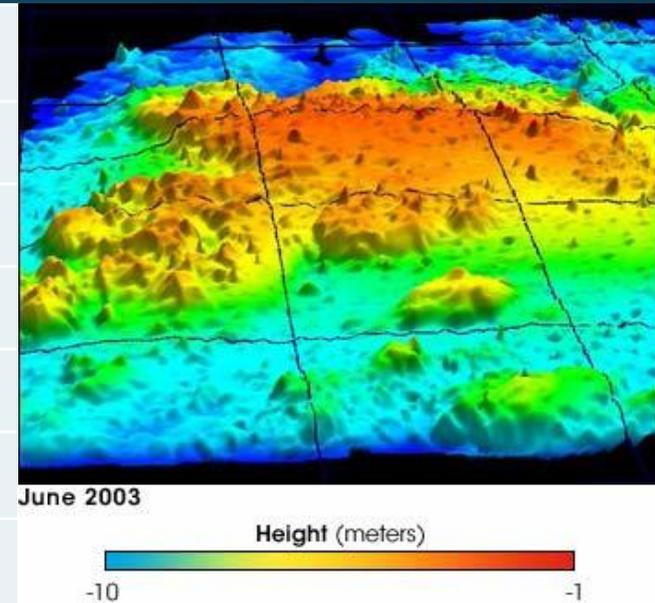
Phase 1: \$7.5 million
Monroe County: 2020-21
Municipalities: 2021-23

• **Sea Level Rise Modeling and Data Finalization:** Monroe County and its municipalities will first complete enhanced countywide modeling for sea level rise (this effort is currently underway). Additional ground level data will be collected in order to prioritize countywide programs and projects.

MC Regional Resilience Project

- Phase I: GIS LiDAR Collection (Cities ONLY)

Municipalities	Mileage	Budget
Islamorada	69	\$ 130,000
Key West	93	\$ 280,000
Marathon	78	\$ 147,000
Layton	2	\$ 4,000
Key Colony Beach	7	\$ 11,500
Total	249 Miles	\$572,500



MC Regional Resilience Project

Phase II: Vulnerability Analysis and Planning: (Cities Only)

- Identify water inundation levels over time, and it's effect on critical services and lifelines (roads, critical facilities). (**\$1.5 Million**)



©Jan Darden

MC Regional Resilience Project

Phase III: Neighborhood based Resilience Planning: County ONLY (\$400,000)

- Select up to 6 high risk and low-income neighborhoods as case studies to identify resilience related solutions, functionality, and quality of life issues specific to each neighborhood.

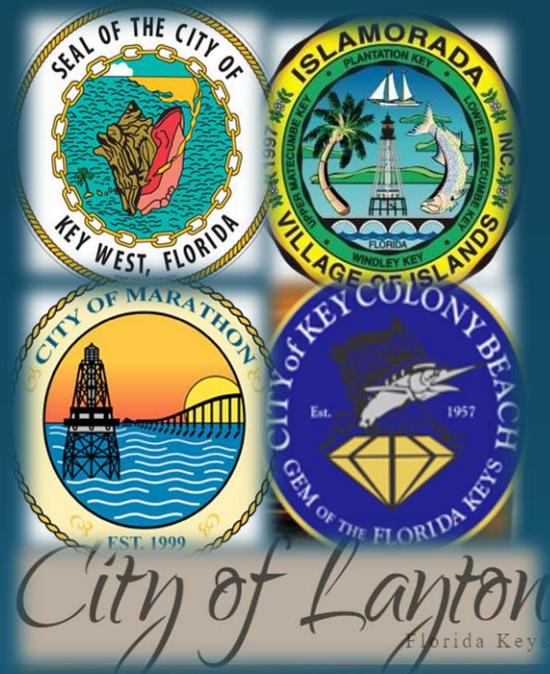
Total Project Funding: **\$ 2.5 Million**

Note: Grant Administration Fees of 5% are added to the funding request.



Municipal Support for Resilience Strategy

- Islamorada
- Key West
- Marathon
- Layton
- Key Colony Beach



Public Participation

- A Public Notice was released July 2, 2020
- At least a 14 Day Public Comment Period starting July 2 , 2020
- Public Hearing on July 15, 2020
- Applications are posted at the following website:
<http://www.monroecounty-fl.gov/1200/CDBG-Mitigation-Programs>

Contact Information

- Project Contact:

Rhonda Haag, Haag-Rhonda@monroecounty-fl.gov

CDBG-MIT Contact:

Helene Wetherington, Disaster Recovery Director

Wetherington-Helene@MonroeCounty-fl.gov

Monroe County Website Posting for Public Comment

monroecounty-fl.gov/1200/CDBG-Mitigation-Programs

COVID-19 INFORMATION

Monroe County COVID-19 (Coronavirus) Information
[Click Here...](#)

[Housing Strategies](#)

[Voluntary Home Buyout Program](#)

[Housing Repair Program](#)

[Infrastructure Repair Program](#)

[Workforce Affordable Rental Construction Program](#)

[CDBG-Mitigation Programs](#)

[Home](#) > [Services / Programs](#) > [Hurricane Irma Recovery](#) > [Rebuild Florida](#) > [CDBG-Mitigation Programs](#)

CDBG-MITIGATION PROGRAMS

The U.S. Department of Housing and Urban Development (HUD) announced that \$633 million in first-of-its-kind funding would be available to the state of Florida for disaster mitigation projects in [areas impacted](#) by presidentially declared disasters in 2016 and 2017. These funds are available through HUD's newly created Community Development Block Grant - Mitigation (CDBG-MIT) and will be used to fund disaster mitigation programs to better protect Florida from future disasters:

DEO has launched all of the CDBG-Mitigation Programs

1. **Critical Facility Hardening Program (CFHP) (\$75 Million)** launched on April 15 with a submission deadline of June 30, 2020.

Staff requested approval from the Board of County Commissioners at their June 17, 2020 meeting to submit two grant applications for the CFHP. The following application were submitted to the Florida Department Economic Opportunity on June 23, 2020.

Hardening of the [Tavernier Fire Station #22](#)

Hardening of the [Monroe County Sheriff's Office Detention Center on Stock Island](#)

2. **General Planning Support (GPS) (\$20 Million)** launched on May 15, 2020 with a submission deadline of July 30, 2020.

Staff submitted the following project for approval by the Board of County Commissioners at their July 15, 2020 meeting. The application is available for public comment from June 25 to July 20, 2020. Public comment instructions are below. A Public Hearing will be held at the Board of County Commissioner meeting on July 15, 2020 at 1:30 pm to receive comments on the proposed CDBG-MIT Grant application. For additional information [click here](#).

[Florida Keys Regional Resilience Plan and Neighborhood Livability Outreach and Planning](#)

3. **General Infrastructure Program (\$475 Million)** launches on June 15, 2020 with a deadline of September 14 2020. Monroe county will provide additional information soon.

Public Comments

Public comments on the proposed applications will be accepted as required by the US Department of Housing and Urban Development. To submit public comment, send an email to Wetherington-Helene@monroecounty-fl.gov

Additional Information

For additional information on the Florida Department of Economic Opportunity Rebuild Florida mitigation grant programs go to <http://www.floridajobs.org/rebuildflorida/mitigation>.

FL CDBG Mitigation

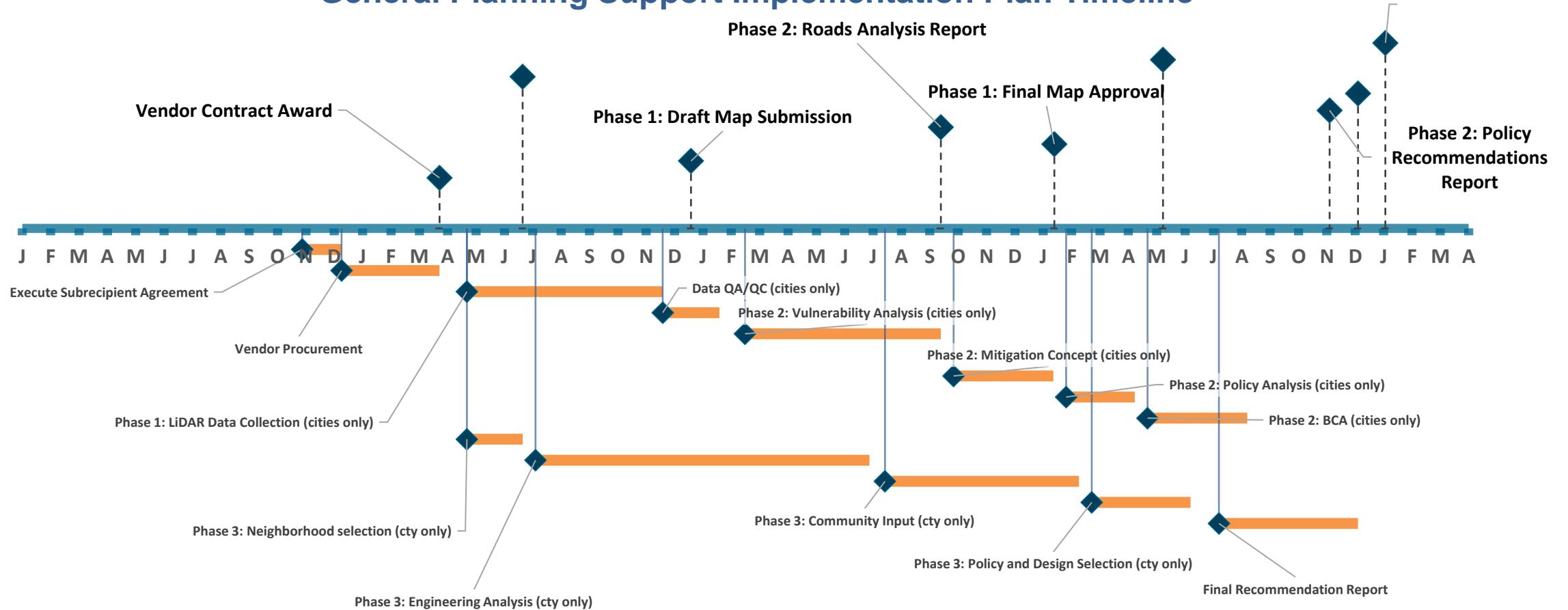
General Planning Support Program Project Budget

Project Name:	Florida Keys Regional Resilience Plan and Neighborhood Livability Outreach and Planning	Primary Contact Name and Phone Number:	Rhonda Haag 305-453-8774		Official Applicant Entity Name:	Monroe County, Board Of County Commissioners and the cities of Islamorada, Layton, Marathon, Key West (note: awaiting confirmation from Key Colony Beach)
Project		Budget			Notes	
Description	CDBG-MIT Amount	Other non CDBG-MIT Funds	Source of Funds*	Total Funds (CDBG-MIT and Other)		
Phase 1: GIS LiDAR Data Collection	\$ 572,500	NA		\$ 572,000	Collect mobile LiDAR elevation survey data for 249 miles of locally maintained roads in the five municipalities of Monroe County. Islamorada 69 miles \$ 130,000 Key West 93 miles \$ 280,000 Marathon 78 miles \$ 147,000 Layton 2 miles \$ 4,000 Key Colony Beach 7miles \$ 11,500	
Phase II: Vulnerability Analysis and Planning: (Cities Only)	\$ 1,504,000	NA		\$1,504,000	Identify where the water inundation will be within various points of time, how much the rising water will affect critical services and lifelines (roads, critical facilities) and identify the roads that require elevation and the recommended schedule and concepts for adaptation Islamorada 69 miles \$416,771.08 Key West 93 miles \$561,734.94 Marathon 78 miles \$471,132.53 Layton 2 miles \$12,080.32 Key Colony Beach 7 miles \$42,281.13	
Phase III: Neighborhood based Resilience Planning: County only	\$ 450,000	NA		\$ 450,000	Select 6 higher risk neighborhoods only in the unincorporated county to identify resilience related challenges, functionality, and quality of life issues specific to each of the pilot neighborhoods gained from neighborhood engagement.	
Administrative Costs	\$126,325			\$126,325	Cost directly related to contract administration such as invoicing, auditing, and reporting.	
Totals:	\$2,652,825	NA		\$2,652,825		

*** All funds identified for use on your project must be fully disclosed and detailed to ensure budget accuracy and no duplication of benefits. Show the sources and amounts of other funds needed to complete the project below, including local funds and grants from other agencies. Any anticipated or committed funds must also be included.**

Source of Other Funds	Amount
1. NA	NA
2.	

General Planning Support Implementation Plan Timeline



Tasks

Start	End	Duration	Label
11/02	12/15	43	Execute Subrecipient Agreement
12/15	04/01	107	Vendor Procurement

05/01	12/01		214	Phase 1: LiDAR Data Collection (cities only)
12/01	02/01		62	Data QA/QC (cities only)
03/01	10/01		214	Phase 2: Vulnerability Analysis (cities only)
10/15	02/01		109	Phase 2: Mitigation Concept (cities only)
02/15	05/01		75	Phase 2: Policy Analysis (cities only)
05/15	09/01		109	Phase 2: BCA (cities only)
09/15	12/01		77	Phase 2: Project List (cities only)
05/01	07/01		61	Phase 3: Neighborhood selection (cty only)
07/15	07/15		365	Phase 3: Engineering Analysis (cty only)
08/01	03/01		212	Phase 3: Community Input (cty only)
03/15	07/01		108	Phase 3: Policy and Design Selection (cty only)
08/01	12/31		152	Final Recommendation Report

Milestones

Date	Label
4/1/2021	Vendor Contract Award
1/1/2022	Phase 1: Draft Map Submission
2/2/2023	Phase 1: Final Map Approval

Notes

Record project notes below

Insert timeline notes here