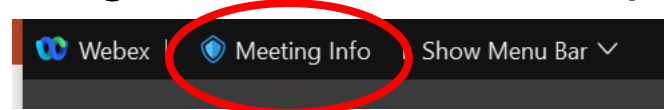


FMA & BRIC Grant Programs State-Wide Applicant Briefing

Call-in Number available through Webex.
Click “Meeting info” tab in the top left corner



Webinar Info

- Audio
 - Available through Webex
- **All lines will be muted for the duration of the webinar.**
- If you have a question or issue during the presentation please submit it through the webinar chat.
- Any questions not answered during the presentation will be answered in the meeting minutes and made available to the public.



INTRODUCTION



What does Mitigation do?

Mitigation breaks the cycle of disaster, damage, reconstruction and repeated damage



\$6 is saved in future disaster costs for every \$1 of hazard mitigation spent



Where does Mitigation fit?

Mitigation

Reducing the loss of life
and property by
lessening the impact of
disasters

Recovery
Putting a community
back together after a
disaster



Preparedness
Getting people and
equipment ready to quickly
and effectively respond to a
disaster before it happens

Response
Saving life and property
during and immediately
after a disaster



Timelines

Non-Disaster Mitigation Grants Application Cycle and Funding Deadlines

- NOFO posted to Grants.gov: 8/12/22
- FDEM Announcement emailed: 8/15/22
- Application period opens: 9/30/22
- Deadline to Submit SA to FDEM: 11/14/22

Deadline to Submit a Subapplication to FDEM
11/14/22 by 5:00 PM EST

Only complete subapplications will be accepted and reviewed before submission to FEMA



ELIGIBILITY



Minimum Subapplicant Eligibility Criteria

- Applicant's jurisdiction must have a FEMA-approved local mitigation plan as a condition of receiving a project grant
- All jurisdictions included in multi-jurisdictional plan must have formally adopted their respective Local Mitigation Strategy (LMS)
- All jurisdictions must participate in the NFIP (communities on probation or suspended from the NFIP are not eligible).



Eligibility Criteria

All mitigation measures submitted to the state for funding consideration must:

- Be consistent with the State Hazard Mitigation Plan
- Provide a long-term solution
- Be located in a vulnerable area as identified in the Local Mitigation Strategy (LMS)
- Be technically feasible and meet cost effectiveness and environmental conformity
- The measure must identify a non-federal match (90/10) (75/25)



Program Funding

- FMA & BRIC are cost-reimbursement grant programs
 - All approved eligible project costs are financed by the Sub-recipient with reimbursement requested from the State
- FEMA may fund up to 100% (FMA) and up to 75% (BRIC) of the eligible costs of each project
- Sub-Recipient Management Costs (SRMC) are available up to 5% of the total project cost
- Project Cost-Share
 - The applicant must provide the match, which can be fashioned from a combination of cash and in-kind sources (44 CFR 206.432(c)).



Cost Share Requirements

Generally, FEMA will pay up to 75 percent of the total project cost

- **BRIC:**
 - FEMA will pay up to 90 percent for Economically Disadvantaged Rural Communities
 - FEMA will pay up to 100 percent for Management Costs
- **FMA:**
 - FEMA will pay up to 100 percent for Severe Repetitive Loss Properties
 - FEMA will pay up to 90 percent for Repetitive Loss Properties
 - FEMA will pay up to 75 percent for Non-RL/SRL Properties



FLOOD MITIGATION ASSISTANCE (FMA)



FY 2022 Flood Mitigation Assistance (FMA)

FMA Eligibility Requirements

- Subapplicants must participate in the National Flood Insurance Program (NFIP) (not on probation or suspended)

If Mitigated Structure Remains:

- Structures identified in the subapplication must have an active NFIP policy in effect at the FMA application start date (09/30/2022*) and must maintain it for the life of the structure regardless of flood zone

If Mitigated Structure is Acquired/Demolished:

- Structures identified in the subapplication must have an NFIP policy in effect at the FMA application start date (09/30/2022*) and must maintain it until the transfer of property occurs regardless of flood zone

**Dates are estimated, official dates will be published after NOFO is released*



FMA Eligible Activities

- Acquisition/Demolition
- Acquisition/Relocation
- Elevation of structures
- Mitigation Reconstruction
- Dry Floodproofing of Historic Structures
- Dry Floodproofing of Non-Residential Structures
- Localized Flood Risk Reduction Projects
- Structural Retrofitting of Existing Buildings
- Non-Structural Retrofitting of Existing Buildings and Facilities
- Infrastructure Retrofit
- Soil Stabilization
- Project Scoping – Individual Home & Community Flood
- Miscellaneous/Other**

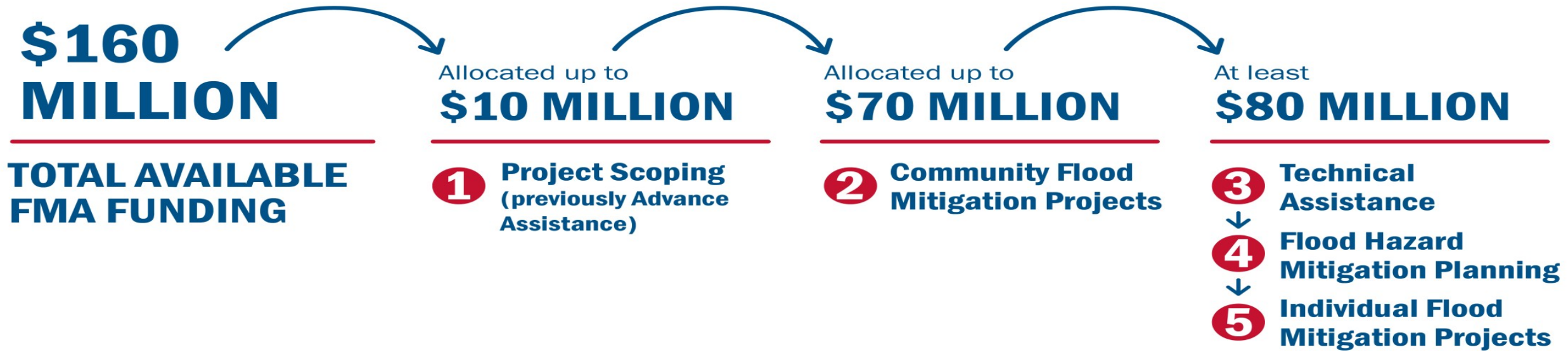


FY 2022 FMA Available Funding & Priorities

TO BE ANNOUNCED



FY 2021 FMA Available Funding & Priorities



\$3,397,751.27 Identified for Further Review



BUILDING RESILIENT INFRASTRUCTURE AND COMMUNITIES (BRIC)



BRIC Eligible Activities

Existing Activities that are Still Eligible:

- Property Acquisition and Structure Demolition or Relocation
- Structure Elevation
- Mitigation Reconstruction
- Dry Floodproofing
- Generators
- Localized/Non-localized Flood Control Projects
- Structural Retrofitting and Non-structural Retrofitting of Existing Buildings and Facilities
- Construction of safe rooms
- Wind Retrofitting for Family Residences
- Infrastructure Retrofit
- Soil Stabilization
- Wildfire Mitigation
- Resilient Infrastructure
- Hazard Mitigation Planning



BRIC Eligible Activities

Expanded Eligibility

Includes:

- Project scoping
- Building code activities
- Pre-award costs
- Additional activities for wildfire and wind implementation (DRRA Section 1205)
- Earthquake early warning (DRRA Section 1233)

Projects Must:

- Be cost-effective
- Reduce/eliminate risk and damage from future natural hazards
- Meet latest two consensus codes (i.e., 2018 or 2021 international building code)
- Align with Hazard Mitigation Plan
- Meet all environmental and historic preservation requirements



FY 2022 BRIC Available Funding & Priorities

TO BE ANNOUNCED



FY 2021 BRIC Available Funding & Priorities

Total Available BRIC FUNDING
\$1 Billion

Uses of Assistance	\$56 M State/Territory Allocations	\$25M Tribal Set-Aside	\$919M National Competition for Mitigation Projects
Management Costs	✓	✓	✓
Capability and Capacity Building Activities	✓	✓	
Mitigation Projects	✓	✓	✓

\$74,125,111.74 Identified for Further Review



BRIC Technical Criteria



Infrastructure project



Mitigates risk to one or more lifelines



Incorporates nature-based solutions



Applicant has mandatory tribal-, territory-, or state-wide building code adoption requirement
(recent versions of International Building Code and International Residential Code)



Subapplicant has Building Code Effectiveness Grading Schedule Rating of 1 to 5



Application generated from a previous qualifying award or the subapplicant is a past recipient of BRIC non-financial Direct Technical Assistance



A non-federal cost share of at least 30%
(or, for Economically Disadvantaged Rural Communities, a non-federal cost share of at least 12%)



Designation as an Economically Disadvantaged Rural Community

BRIC Qualitative Criteria



Risk Reduction /
Resiliency Effectiveness



Climate Change and
Other Future Conditions



Implementation
Measures



Population
Impacted



Outreach
Activities



Leveraging
Partners

FY 2021 BRIC Direct Technical Assistance

Double the number of communities supported through Direct Technical Assistance

Non-financial Direct Technical Assistance was provided to up to 20 selected communities to support the mitigation outcomes listed below:



FY 2021 BRIC Direct Technical Assistance

FEMA may prioritize Direct Technical Assistance for communities that:

- Have not received a project award under the Pre-Disaster Mitigation (PDM) program, FMA, or the Hazard Mitigation Grant Program (HMGP) within the past 5 years
- Have not received an Advance Assistance award under PDM, FMA, or HMGP within the past 5 years
- Are Tribal entities
- Are Economically Disadvantaged Rural Communities and/or benefit disadvantaged community
- Have demonstrated a compelling need (e.g., have significant social vulnerability, multiple major disaster declarations within the past 5 years, etc.)



NOTICE OF INTEREST (NOI) FORM



FY 2022 Notice of Interest Form

If you would like to indicate your interest in pursuing a mitigation activity under the FMA or BRIC programs prior to developing and submitting a subapplication, you may submit a Notice of Interest (NOI) form to FDEM to receive programmatic, engineering and environmental feedback on the proposed project.

NOI Form will be e-mailed with FDEM's notice announcing the FMA and BRIC application cycles and will be available on FDEM's FMA and BRIC websites.

Using the NOI form is strongly recommended, but not required.
FY 23 it will be required.

Submit Completed Form Via E-mail: non-disasterprograms@em.myflorida.com

NOI Submittal Deadline: (9/20/2022)

**After this date, DEM won't be reviewing NOI forms and providing feedback. If you would like feedback, you will need to submit the NOI form before this date.*



APPLICATION DEVELOPMENT



How to Apply

- ✓ Eligible Subapplicants must create an account and apply for funding using FEMA Grants Outcomes (FEMA GO) at the FEMA GO Portal <https://go.fema.gov/>
- ✓ Once an account is created, please send an e-mail to non-disasterprograms@em.myflorida.com so that we may approve the user (as a SAR or SM).
- ✓ Visit FEMA Grants Outcome (FEMA GO) for Hazard Mitigation Assistance Grants to view the technical user manuals and support materials <https://www.fema.gov/grants/guidance-tools/fema-go>



Application Development

Make sure the program for which you are applying is identified within the subapplication title:

- FMA – Evergreen County Elevation Project
(Do not use street name or property owner's name in title)
- BRIC – City of Evergreen Wind Retrofit Project



General Subapplicant Information Required

- Name of Applicant Organization
- Applicant type
- County/Counties
- State Legislative/ Congressional District(s)
- Federal Tax Identification Number
- FIPS Code
- Unique Entity ID (UEI) number
- FFATA
- Point of Contact
- National Flood Insurance Program (NFIP) Community Identification Number
- Application Preparer Information
- Duly Authorized Representative
- LMS Letter of Support



LMS Letter of Support

- All BRIC subapplications must have a signed letter of support from the LMS Chair
 - Must identify how project meets LMS goals and objectives
- Subapplications without a LMS letter of support will NOT be processed



Scope of Work

- ✓ Determine that the proposed activity is an eligible mitigation activity
- ✓ Completely answer all questions
- ✓ Provide clear and detailed description of the proposed activity and how the activity will be implemented
- ✓ Provide supporting documentation and historical data



Pre-Award Costs

- Pre-award costs are incurred prior to the date of the grant award.
 - There is no start date for when they can be incurred. They can be incurred any time prior to an award.
- Examples of pre-award costs:
 - Gathering NEPA data, developing BCA, design specs, conducting workshops for application development, etc.
- Must be approved by the State and FEMA
- Must be requested within subapplication budget
- If the project is not approved, pre-award costs will be the sole responsibility of the subapplicant



Budget Development

You must provide detailed costs of the project. This information will be used for the Benefit-Cost Analysis. Required items include:

- ✓ Pre-Award Costs (list individually)
- ✓ Construction Costs (labor, materials, etc.)
- ✓ Other costs/fees (permitting, engineering, etc.)
- ✓ Sub-Recipient Management Costs
- ✓ Provide Funds Commitment Letter for Non-Federal Share

For more information see 44 CFR §13.24



Budget Development

- Lump sums are NOT acceptable
- You must detail all anticipated project costs
- Provide the source of the estimate
 - Such as contractor estimate or estimating tool (RS Means, Cost Works, Bni, etc.)
 - Vendor quotes



Subrecipient Management Costs (SRMC)

- SRMC are available upon request
 - Keeps management funds and project funds separate.
 - Must be requested within the subapplication
 - Can only be used for indirect costs and/or administrative expenses associated with the project
 - Cannot exceed 5% of the total project costs

- For BRIC only – SRMC is not subject to the cost share split and can be requested at 100%.

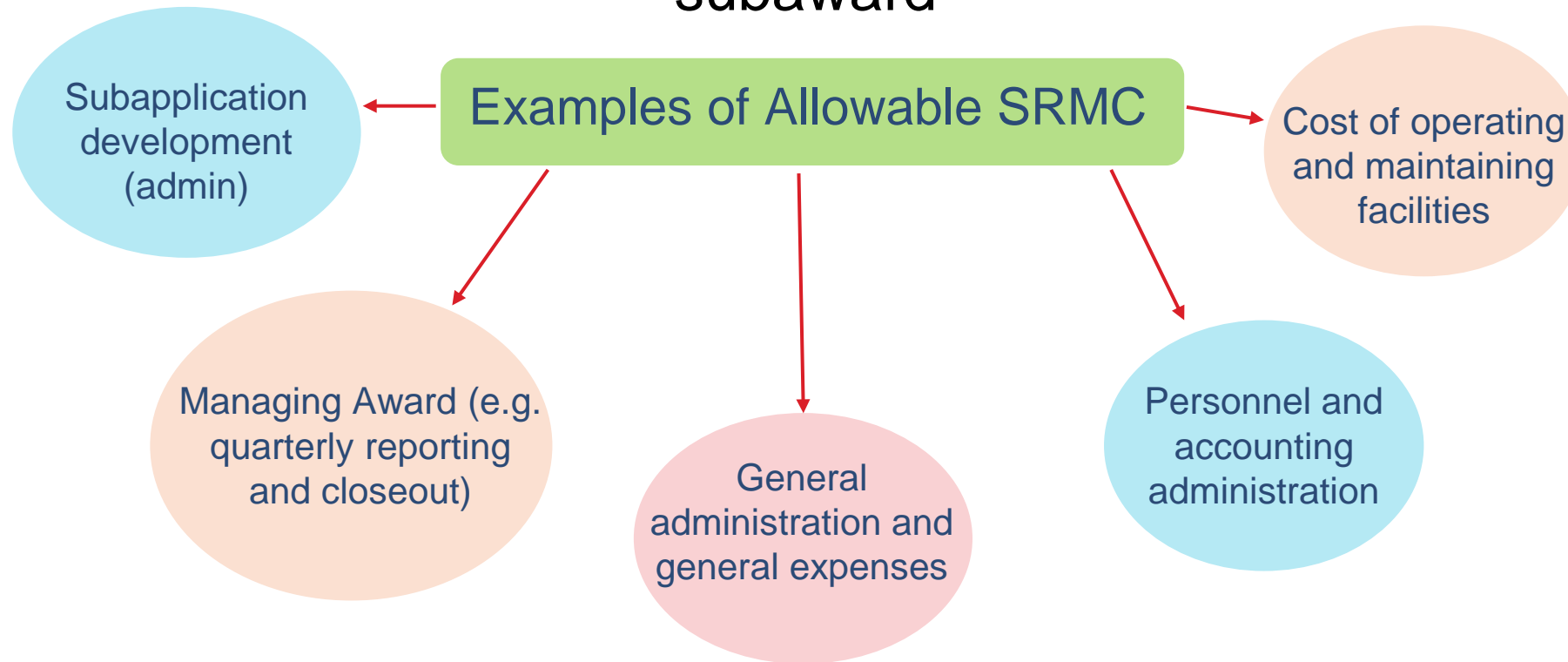
Example:

Total Project Cost = \$200,000 (up to \$10,000 SRMC may be requested)



Subrecipient Management Costs (SRMC)

Management costs are any indirect costs and administrative expenses that are reasonably incurred by a Recipient or Sub-Recipient in administering an award or subaward



**These activities are not an exhaustive list and are subject to State/FEMA approval*



Schedule of Work

Project Schedule of Work

- ✓ Identify project milestones and include all phases of the project
 - Milestone example: project design
- ✓ Number of days to complete
 - Example: 6 months
- ✓ BRIC – Go/No-Go Milestones

The subapplicant, must identify at least one or more Go/No-Go milestones in the work schedule for mitigation projects submitted to the national competition that FEMA will review and approve.

(cannot exceed a 36 months period with the exception of community flood mitigation projects which cannot exceed 48 months)



ENGINEERING REVIEW

Claudia Purser



State Technical Unit Engineering Review



State Sub-application Review

STATE MITIGATION

PROGRAMMATIC



TECHNICAL UNIT

ENGINEERING



ENVIRONMENTAL



State Technical Unit – Engineering

The TechUnit Engineering is a team of experienced professionals that will **help you** complete your sub-application.

Our role is to ensure all sub-applications are complete and in good shape for the program you are applying for (FMA or BRIC):

- **Good mitigation projects** that will protect communities and increase resiliency
- **Eligible and Feasible** projects
- **Cost effective** projects



Key Points

BRIC IS A COMPETITIVE PROGRAM

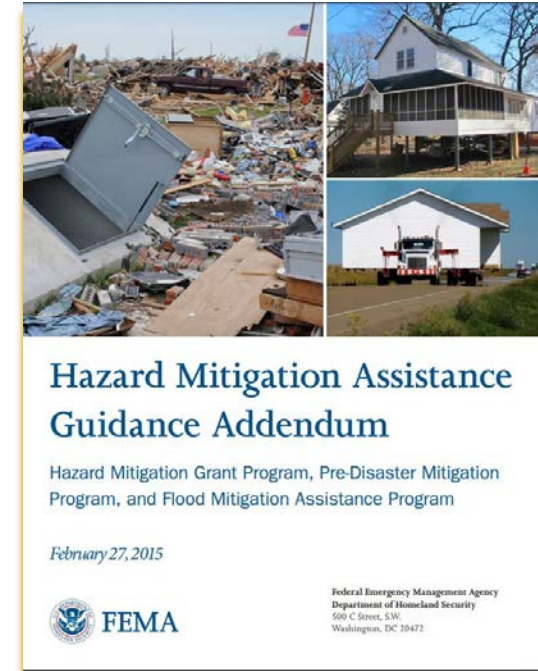
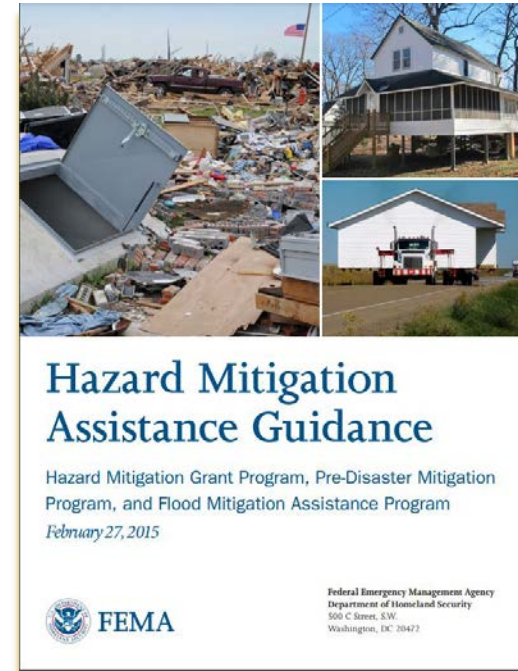
Your project needs to be better than other projects from the rest of the country to be selected for funding

**For BRIC and FMA, remember
your project must meet all requirements**



Key Points

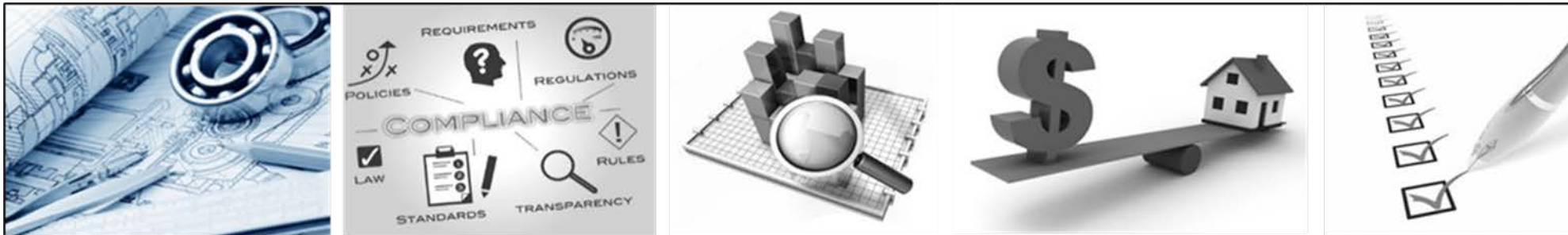
- Read FEMA's Hazard Mitigation Assistance Guidance and identify the eligibility of your project under this funding source.
- Get help from the State or get help from professionals with HMA funding and Benefit Cost Analysis experience.



State Technical Unit - Engineering

Our team reviews multiple sub-application sections:

- Sub-applicant Information
- Contact information
- Scope of Work
- Schedule
- Budget
- Cost effectiveness
- Attachments



Sub-applicant and Contact Information

Please assign the correct person as the POC for the project:

- The POC must be aware of the Sub-application
- The POC must be available to respond RFI and provide additional information (Holidays)
- The POC must be able to reach out to different departments/staff members for help
- If working with a consultant, the information must come from the Sub-applicant



Key Points

Always keep in mind the State Technical Unit Engineering team is on your side and needs your help to be able to help you.

We are here to help you complete and improve your sub-applications.

Our goal is to present a sub-application where all aspects are covered and can be selected for funding.



Scope of Work Section

FEMA GO | Grants | Organizations | Grant/Subgrant ID | Claudia Purser

Project subapplication

- Subapplicant information
- Contact information
- Community
- Mitigation plan
- Scope of work**
- Schedule
- Budget
- Cost-effectiveness
- Environmental/Historic Preservation (EHP) Review Information
 - A. National Historic Preservation Act - Historic Buildings and Structures
 - B. National Historic Preservation Act - Archeological Resources
 - C. Endangered Species Act and Fish and Wildlife Coordination Act
 - D. Clean Water Act, Rivers and Harbors Act, and Executive Order 11990 (Protection of Wetlands)
 - E. Executive Order 11988 (Floodplain Management)
 - F. Coastal Zone Management Act
 - G. Farmland Protection Policy Act
 - H. Resource Conservation and Recovery Act (RCRA) and Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (Hazardous and Toxic Materials)
 - I. Executive Order 12898, Environmental Justice for Low

Hazard sources

Primary hazard source

Secondary hazard source (optional)

Tertiary hazard source (optional)

Is this a phased project?

Are you doing construction in this project?

Population affected

Detail/description of stated percentage

Provide a clear and detailed description of your proposed activity

How will the mitigation activity be implemented?

Describe how the project is technically feasible and will be effective in reducing the risk by reducing or eliminating damage to property and/or loss of life in the project area. Please include engineering design parameters and references to the following: preliminary schematic or engineering drawings/design; applicable building codes; engineering practices and/or best practices; level of protection (e.g., life safety, 100-yr flood protection with freeboard, 100-yr wind design, etc.);

Who will manage and complete the mitigation activity?

Will the project address the hazards identified and what risks will remain from all hazards after project implementation (residual risk)?

When will the mitigation activity take place?

Explain why this project is the best alternative. What alternatives were considered to address the risk and why was the proposed activity considered the best alternative?

Please identify the entity that will perform any long-term maintenance and provide a maintenance, schedule and cost information. The subapplicant or owner of the area to be mitigated is responsible for maintenance (including costs of long-term care) after the project is completed?

Additional comments (optional)

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
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Scope of Work Section

- Please answer **all** scope of work questions.
- Adding a separate document with answers is strongly recommended, our team will provide a template to the POC.
- The document must provide bold answers identifying the scoring criteria. It is for the best interest of the project.

The image shows two pages of a document template for BRIC 2021. The left page is the cover sheet, and the right page contains the scoring criteria.

Left Page (Cover Sheet):

- Header: Florida Division of Emergency Management, Mitigation Technical Unit – Engineering (ENG), FDEM logo.
- Text: STATE OF FLORIDA, PROJECT suggested template for Criteria Scoring BRIC 2021.
- Red text: Please copy this template information and answer accordingly for your project proposal. Once finalized, submit your answers ON YOUR LETTERHEAD (applicant specific) to the FDEM Engineer assigned to your application. The blue text in the following pages is to be replaced with project specific details and information.
- Blue text: This is a courtesy reminder that the BRIC program is a national competition; project scoring determines selection and funding. It has been found that direct and succinct information in a clear format increases BRIC scoring. BRIC guidance can be found on FEMA's website. Feel free to contact the FDEM staff for assistance or clarification.
- Page number: 1

Right Page (Criteria Scoring):

- Header: Florida Division of Emergency Management, Mitigation Technical Unit – Engineering (ENG), FDEM logo.
- Text: Technical Criteria: The technical criteria are used to quantify the competitive nature of a project based on the below priorities for BRIC 2021. In most cases the determination is either full or zero points, a total of 115 points are available.
- Section: Infrastructure (20). Please identify if (and how) this project mitigates natural hazard risk to critical physical structures, facilities, and systems, to provide support to communities, agriculture and economy (purely residential projects do not get point for this Technical Criterion).
- Section: Lifelines (15). Please identify which FEMA recognized Community Lifeline(s) this project protects. Community Lifelines are fundamental services in the Community that enable all aspects of society to function. Recognized Lifelines include: Safety and Security, Health and Medical, Communications, Hazardous Materials, Food, Water, Shelter, Energy (Power & Fuel), Transportation.
- Section: Nature-Based Solutions (10). Please identify if (and how) this project uses practices that intertwine natural features or processes into the built environment to build more resilient communities.
- Section: Code Adoption (20 or 10). Please identify that the Applicant has mandatory State-Wide Building Code adoption. (Please note: the State of Florida qualifies for all points in this Criteria).
- Section: Building Code Grading (20). Please identify the independent assessment of a community's building code adoption and enforcement. (Programmatic team please comment on Florida's grading in this Criteria).
- Section: Previous award or Technical assistance (10). Demonstrate that the sub application was generated from a previous qualifying award, if applicable.
- Section: Cost Share (5). To receive the point allotment for this criterion, a sub applicant must demonstrate that it can provide a non-federal cost share of at least 30%. For Economically Disadvantaged Rural Communities, a non-federal cost share of at least 12% is required to receive the full points. Sub applicants should include cost share documentation in the Budget Section of FEMA GO.
- Page number: 2



Key Points

Elaborate a complete detailed SOW:

- Who will be doing the work
- Where the project is going to be located
- The existing problem
- Population affected
- Description of the work to be completed
- How the project will be implemented – Phased projects
- The level of protection the project will provide
- **Avoid being repetitive for the reader**



Schedule Section

Hills of Santa Fe Acquisition, Demolition and Drainage improvements 10002 and 10012 NW 25th Place

Status: Submitted to recipient

Project subapplication

- Subapplicant information
- Contact information
- Community
- Mitigation plan
- Scope of work
- Schedule**
- Budget
- Cost-effectiveness
- Environmental/Historic Preservation (EHP) Review Information
 - A. National Historic Preservation Act - Historic Buildings and Structures
 - B. National Historic Preservation Act - Archeological Resources
 - C. Endangered Species Act and Fish and Wildlife Coordination Act
 - D. Clean Water Act, Rivers and Harbors Act, and Executive Order 11990 (Protection of Wetlands)
 - E. Executive Order 11988 (Floodplain Management)
 - F. Coastal Zone Management Act
 - G. Farmland Protection Policy Act
 - H. Resource Conservation and Recovery Act (RCRA) and Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (Hazardous and Toxic Materials)
 - I. Executive Order 12898, Environmental Justice for Low...

Schedule

Specify the work schedule for the mitigation activities.

Add tasks to the schedule

Please include all tasks necessary to implement this mitigation activity; include descriptions and estimated time frames.

Task Name	Start Month	Task Duration (in Months)
Acquisition of two houses	1	3 months
Task Description The County and home owners will come to agreement on a purchase price and execute a contract. Upon processing of all applicable real estate documents, the closing will occur.		
Survey	4	1 months
Task Description A topographic and boundary survey will be conducted to confirm property boundary lines and obtain existing grade elevations to be used for the design of the pond.		
Design	5	2 months
Task Description A hydrologic model will be run of the area to confirm final pond size utilizing the field survey elevations. A grading plan of the pond will be prepared indicating layout, depth, side slopes. A storm water pump will be sized and located with a discharge detail to convey the flood waters to the offsite north area.		
Bid Phase	7	2 months
Task Description The County will advertise the work to solicit bids from qualified contractors. The bids will be reviewed and a contractor selected.		



Schedule Section

Please provide a schedule, it is required!

- The project's schedule must not exceed the program's timeframe
- List all tasks the project would have
- Be consistent with your SOW
- Be consistent with your budget



Budget Section

FEMA GO Grants Organizations Grant/Subgrant ID Search Claudia Purser

Project subapplication

- Subapplicant information
- Contact information
- Community
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 - I. Executive Order 12898, Environmental Justice for Low...

Budget type: Construction

Cost type: Cost estimate **\$2,161,224.46**

Cost estimate is the line item(s) budget to support the scope of work for the execution and completion of the project. Be sure to include the cost associated with revisions/formal adoption. To add a line item, Please click on the Add an item button. Click anywhere within each row or the arrow to edit or delete the line item(s)

Cost Items

▶ Item: Sodding	\$1,980.00
▶ Item: Maintenance of Traffic	\$40,022.68
▶ Item: Dredging & Disposal of Dredged Materials - Seminole	\$74,448.00
▶ Item: Dredging & Disposal of Dredged Materials - Pine to	\$218,295.00
▶ Item: Sediment & Erosion Control	\$17,050.00
▶ Item: Bank Regrading	\$3,960.00
▶ Item: Design/Permitting/Data Collection	\$90,051.02
▶ Item: Dredging & Disposal of Dredged Materials - Plaza AI	\$76,824.00
▶ Item: Construction Engineering and Inspection	\$180,102.04



Budget Section

Please provide a budget, it is required!

- Lump sums are not allowed
- Provide detailed activities
- Attach a detailed project budget
- Be consistent with the attachment

NEW*

- SRMC will not be part of the BCA

Construction Cost Estimate Worksheet					
Applicant Name			Project Name		
125 Fountain Avenue, L.P.			Liberty Apartments		
Trade/Item	Unit	Quantity	Unit Cost	Total	
Division 1: General Requirements					
1 Mobilization	LS		\$20,000.00	\$20,000.00	
2 Temporary facilities	LS		\$30,000.00	\$30,000.00	
3 Sidewalk Bridge/Safety	LS	1	\$90,000.00	\$90,000.00	
4 Dumpsters	EA	85	\$1,100.00	\$93,500.00	
5 Engineering and Testing	LS	1	\$75,000.00	\$75,000.00	
6 Plans and Specs	LS	1	\$15,000.00	\$15,000.00	
7 General Labor	LS		\$80,500.00	\$80,500.00	
8				\$0.00	
9				\$0.00	
10				\$0.00	
				Division 1 Total	\$404,000.00
Division 2: Stework					
1 Surveying	LS	1	\$15,000.00	\$15,000.00	
2 Clear and grub/drainage	LS	2	\$15,000.00	\$30,000.00	
3 Excavation/obstructions	CY	3964	\$50.00	\$198,200.00	
4 Shoring/ shoring engineer	LS	775	\$40.00	\$31,000.00	
5 Backfilling/Misc Machine days	Days	25	\$1,500.00	\$37,500.00	
6 Plantings	EA	90	\$383.00	\$34,470.00	
7 Paving/Pavers/fencing/curbs			\$110,678.00	\$110,678.00	
8 Sidewalk with removal			\$8,652.00	\$8,652.00	
9 Site furnishings/play equipment/safety surface			\$54,500.00	\$54,500.00	
10				\$0.00	
				Division 2 Total	\$600,000.00
Division 3: Concrete					
1 Perimeter walls	CY	145	\$550.00	\$79,750.00	
2 Interior Walls	CY	85	\$550.00	\$46,750.00	
3 Perimeter and interior footings/stairs/misc. footings	CY	414	\$450.00	\$186,300.00	
4 Misc. Concrete/rat slab	CY	56	\$400.00	\$22,400.00	
5 Precast Concrete Plank	SF	49118	\$15.00	\$736,770.00	
6 Precast stairs	FLT	7	\$5,000.00	\$35,000.00	
7 Edge stops	LF	5112	\$4.50	\$23,004.00	
8 Rebar	LBS	36953	\$1.50	\$55,429.50	
9 Pump days	EA	10	\$1,575.00	\$15,750.00	
10				\$0.00	
				Division 3 Total	\$1,201,153.50
Division 4: Masonry					
1 Interior CMU Block	SF	9482	\$14.00	\$132,748.00	
2 Exterior Block and Brick	SF	17420	\$31.00	\$540,020.00	
3 Precast lintels, sills and bands	LF	2488	\$35.00	\$87,080.00	
4 Grouting	SF	7073	\$3.00	\$21,219.00	
5 Parapets	LF	575	\$130.00	\$74,750.00	
6 Flashing/Scaffold installation	LS	1	\$24,500.20	\$24,500.20	
7 Washdown	LS	21613	\$1.50	\$32,419.50	
8				\$0.00	
9				\$0.00	
10				\$0.00	
				Division 4 Total	\$912,736.70



Cost Effectiveness Section

0 results found

Status: Pending submission

Project subapplication

- Subapplicant information
- Contact information
- Community
- Mitigation plan
- Scope of work
- Schedule
- Budget

Cost-effectiveness

Environmental/Historic Preservation (EHP) Review Information

- A. National Historic Preservation Act - Historic Buildings and Structures
- B. National Historic Preservation Act - Archeological Resources
- C. Endangered Species Act and Fish and Wildlife Coordination Act
- D. Clean Water Act, Rivers and Harbors Act, and Executive Order 11990 (Protection of Wetlands)
- E. Executive Order 11988 (Floodplain Management)
- F. Coastal Zone Management Act
- G. Farmland Protection Policy Act
- H. Resource Conservation and Recovery Act (RCRA) and Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (Hazardous and Toxic Materials)
- I. Executive Order 12898, Environmental Justice for Low

Test

Cost-effectiveness

How was cost-effectiveness determined for this project?

- BCA completed in FEMA's BCA toolkit
- Pre-calculated benefits
- Substantial damage in special flood hazard area
- Other BCA methodology approved by FEMA in writing
- Not applicable
- Not applicable

What are the total project benefits? (\$)

What are the total project cost? (\$)

What is the benefit-cost ratio (BCR) for the entire project?

Was sea level rise incorporated into the flood elevations in the BCA?

Were environmental benefits added to the project benefits?

Were social benefits added to the project benefits?

Does the mitigation measure incorporate nature-based solutions?

Please provide any additional comments below (optional).

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
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Continue



Cost Effectiveness Section

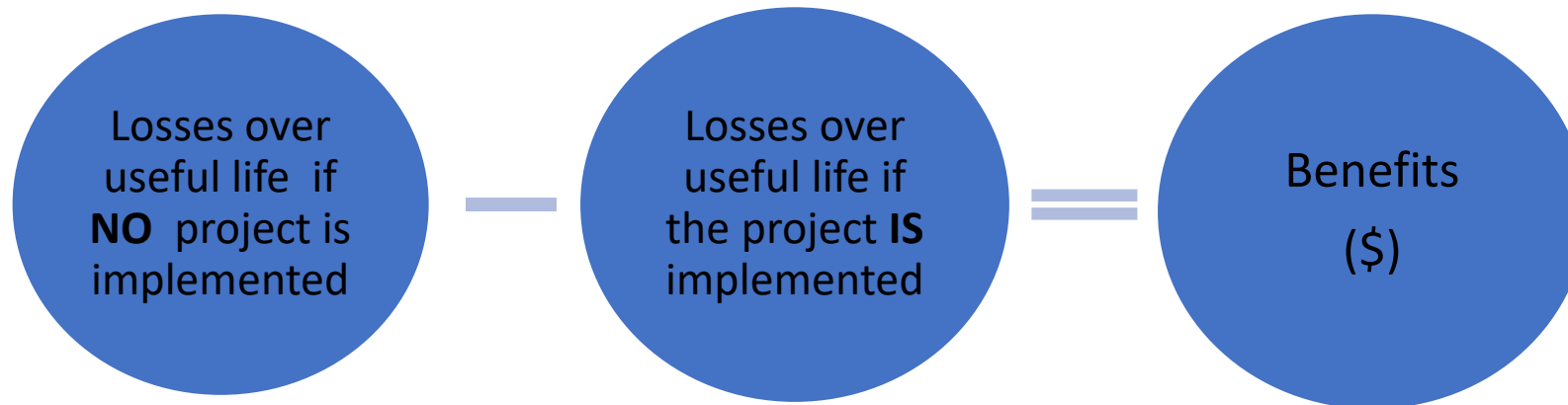
- The State TechUnit will run the BCA for **all** projects, implementing approved methodologies
- All values on BCA must be supported with attachments
- The State will answer questions on this section
- Any answers entered may be modified to match our BCA
- Any BCA prepared by the sub-applicant or their consultant will be reviewed, but will also be removed from the sub-application to avoid confusion
- Irrelevant attachments will be removed to avoid confusion.
- The State TechUnit Engineering will attach a recommendation for funding supporting your project and a BCA



Benefit Cost Analysis

The analysis is done utilizing FEMA's Benefit Cost Analysis (BCA) toolkit (version 6.0)

$$\frac{\text{Benefits}}{\text{Project Cost}} = 1.0 \text{ or greater (Ratio)}$$



Benefit Cost Analysis

3 ways to run a Benefit Cost Analysis BCA:

Modeled Damages

Using available technical data to enter info on tool and allow it to calculate damages and benefits.

- Flood Insurance Study
- Elevation Certificate
- Property Appraiser
- ASCE 7-16
- FDOT Traffic counts
- Other

Historical Damages

Using historical records available.

- Flooding pictures
- Insurance Claims
- Homeowner Affidavits
- Historical road closures
- 911 records
- Utility outages
- Other

Professional Expected Damages

Using expected damages calculated and certified by the correct professional.

- Signed and Sealed information from the Engineer of Record
- Damages using Depth Damaged Function tables
- H&H Studies
- Other

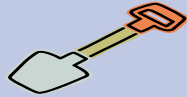


Benefit Cost Analysis

Typical benefits:



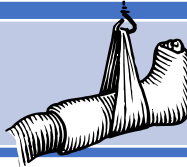
Avoided Physical Damages



Avoided Emergency Response Costs



Avoided Loss-of-Function Impacts



Avoided Injuries and Casualties



Non-Traditional Benefits

Benefit Cost Analysis

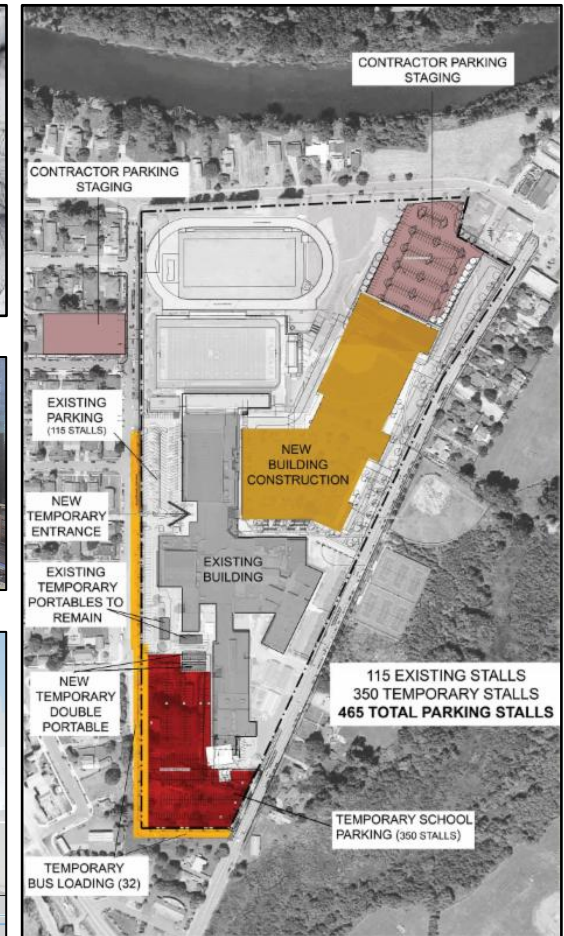
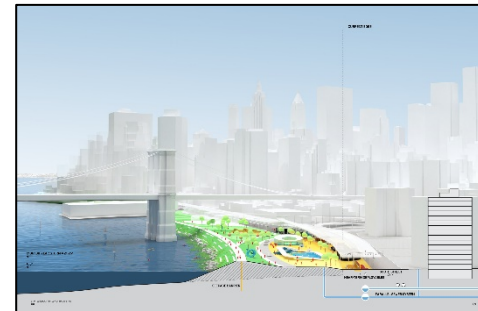
What we look for when collecting benefits to run the BCA:

- Clear explanation of the problem
- Clear explanation of the solution
- Activities that will take place
- Maintenance cost (required)
- Location
- Property details
- Affected customers
- **Level of protection** (most important)



Benefits Cost Analysis

- Maps
- **Conceptual Designs (required)**
- If designed, set of construction plans
- Damage calculations (if available)
- Any other attachment that can help explain the benefits to the area and the community



Key Points

- Do not attach irrelevant information or duplicated files to your FEMA GO application
- Make sure your application contains consistent information
- Do your best to guide the reader to understand your project




BCA Exemptions

- **Elevations** in the SFHA under \$205,000
- **Acquisitions** in the SFHA and under \$323,000



U.S. Department of Homeland Security
Washington, DC 20472

 **FEMA**

9/29/2021

INFORMATION

MEMORANDUM FOR: Regional Administrators
Regions I - X

ATTENTION: Regional Mitigation Division Directors
Hazard Mitigation Assistance Branch Chiefs

FROM: Kayed I. Lakhia, AIA, NCARB, LEED AP, CFM
Deputy Director, Hazard Mitigation Assistance/
Mitigation Directorate
Federal Insurance and Mitigation Administration

KAYED I. LAKHIA
Date: 2021-09-29
142154-0400

SUBJECT: **Update to "Cost-Effectiveness Determinations for Acquisitions and Elevations in Special Flood Hazard Areas Using Pre-Calculated Benefits" Memorandum**

I. Background and Purpose of this Memorandum
In 2013, FEMA's Hazard Mitigation Assistance (HMA) Division analyzed over 11,000 structures acquired or elevated and found that the average benefits for each project type were \$276,000 and \$175,000 respectively. FEMA is now adjusting these values for inflation.¹

This memorandum supersedes the October 2013 memorandum titled "Cost-Effectiveness Determinations for Acquisitions and Elevations in Special Flood Hazard Areas Using Pre-Calculated Benefits" and updates any values outlined in the 2015 Hazard Mitigation Assistance Guidance, Part IV, I.7, Pre-calculated Benefits for Acquisitions and Elevations in Special Flood Hazard Areas.

II. Scope and Applicability
This memorandum is effective on September 30, 2021.

This methodology is available for all HMA grant programs² and can be applied to new applications as well as pending or selected for further review projects. Additionally, pre-calculated benefits can be used to evaluate cost overruns for approved projects, if a new cost-effectiveness review is being performed.

¹ The Bureau of Labor Statistics' Consumer Price Index (CPI) Inflation Calculator (<https://data.bls.gov/cgi-bin/cpicalc.pl>) was used to inflate the values.

² HMA grant programs currently includes Hazard Mitigation Grant Program (HMGP); HMGP Post Fire; Flood Mitigation Assistance (FMA) and Building Resilient Infrastructure and Communities (BRIC).




BCA Exemptions

- **Acquisitions** for Repetitive Loss (RL) and Severe Repetitive Loss (SRL) properties outside the SFHA, that meet specific qualifiers and definitions listed on the memorandum.

Dated February 15th 2022

U.S. Department of Homeland Security
Washington, DC 20472

 **FEMA**

MEMORANDUM FOR: Regional Administrators
Regions I – X

ATTENTION: Regional Mitigation Division Directors
Hazard Mitigation Assistance Branch Chiefs

FROM: ANGELA R. Gladwell
Angela R. Gladwell GLADWELL
Director, Hazard Mitigation Assistance Division
Federal Insurance and Mitigation Administration
Digitally signed by ANGELA R. GLADWELL
Date: 2022.02.15 13:27:17 -0500

DATE: February 15, 2022

SUBJECT: Benefit-Cost Analysis Efficiencies for Repetitive Loss and Severe Repetitive Loss Acquisition Projects Located Outside the Designated Special Flood Hazard Area

I. Background and Purpose of This Memorandum

This memorandum establishes the use of a pre-calculated benefit to demonstrate cost-effectiveness for Repetitive Loss (RL) and Severe Repetitive Loss (SRL) acquisition projects located outside the designated Special Flood Hazard Area (SFHA).

In this memorandum, RL refers to a structure or property meeting either (1) or (2) from the following definitions:

- (1) A structure that meets one of the two following qualifiers:
 - a. Two or more claims of more than \$1,000 paid by the National Flood Insurance Program (NFIP) within any rolling 10-year period, since 1978; or
 - b. Two or more claims (building payments only) that, on average, equal or exceed 25 percent of the market value of the property.¹
- (2) A structure covered by a contract for flood insurance made available under the NFIP that meets both of the two following qualifiers:


¹ This definition is based on the definitions for RL used by the NFIP program. See 44 C.F.R. § 209.2 and pt. 61, Appendices A(1)-A(3); see FEMA, National Flood Insurance Program, *Flood Insurance Manual*, Appendix A, pp. 11-12, and Appendix E, pg. 5 (Apr. 2021); and see FEMA, National Flood Insurance Program, *Community Rating System Coordinator's Manual*, pg. 120-7 (2017).



BCA Exemptions

- **Wind Retrofit For Non-Residential Buildings** with a mitigation cost under 10% of its Building Replacement Value
 - Must be located in the wind-borne debris area
 - Structural frame must consist of steel, concrete or reinforced masonry


U.S. Department of Homeland Security
500 C Street, SW
Washington, DC 20472

 **FEMA**

March 1, 2018

MEMORANDUM FOR: Regional Administrators
Regions I-X

ATTENTION: Regional Mitigation Division Directors
Hazard Mitigation Assistance Branch Chiefs

FROM: Michael Grjman 
Assistant Administrator, Mitigation
Federal Insurance and Mitigation Administration

SUBJECT: Cost Effectiveness Determination for Non-Residential Hurricane Wind
Retrofit Measures Funded by FEMA

This memorandum establishes the use of pre-determined benefits for wind retrofit projects on non-residential buildings in wind borne debris regions.

Two mitigation packages, Option 1 and Option 2, are considered eligible for the pre-determined benefits:

- Option 1 consists of (1) opening protection for doors, windows, and louvers against wind borne debris, wind driven rain, and high wind pressure, and (2) roof retrofit, which consists of securing roof top equipment, replacing roof decking and covering
- Option 2 consists of (1) opening protection, (2) roof retrofit, and (3) improvement to or creating a continuous load path from the roof to the foundation

Eligible structures must have primary structural framing that consists of steel, concrete, or reinforced masonry; structures composed of other building materials, such as wood, steel stud, and unreinforced masonry are not eligible for this pre-determined benefit. When retrofitted, structures will comply with the loading requirements of latest edition of the International Building Code (IBC), International Existing Building Code (IEBC), American Society of Civil Engineers, Minimum Design Loads for Buildings and Other Structures (ASCE 7), FEMA P-577, and the requirements of the locally enforced building code.

Applicants must provide maps with structures clearly indicated as being in a wind borne debris region to be eligible to use the pre-determined benefits. Additionally, the project must have a useful life of at least 25 years.

Mitigation projects meeting the above criteria are considered cost effective if the *mitigation project costs less than 10% of the building replacement value*. This eliminates the requirement for applicants to conduct a separate benefit cost analysis for eligible projects. The benefits are based on FEMA's existing methodology

www.fema.gov



BCA Exemptions

- **Wind Retrofit for Residential Buildings** under the cost of specific packages listed on FEMA's job aid
 - Must comply with all activities from each package



Job Aid

Federal Insurance and Mitigation Administration

Cost Effectiveness Determination for Residential Hurricane Wind Retrofit Measures Funded by FEMA

This Job Aid establishes the use of pre-determined benefits to demonstrate the cost-effectiveness of wind retrofit projects that comply with FEMA P-804, *Wind Retrofit Guide for Residential Buildings*, December 2010 (available at <https://www.fema.gov/media-library/assets/documents/21082>). This eliminates the requirement for Applicants/subapplicants to conduct a separate benefit-cost analysis for a hurricane wind retrofit project that meets the criteria identified in the table below. The benefits are based on FEMA's existing methodology for evaluating the cost-effectiveness of residential wind retrofit projects and use updated 2014 construction costs for the measures outlined in FEMA P-804.

To qualify for these pre-determined benefits, residential structures as identified in FEMA P-804 (does not include manufactured homes) must be located in the 120-mile-per-hour (mph) basic wind speed zone for Occupancy Category II Buildings per the American Society of Civil Engineers (ASCE) / Structural Engineering Institute (SEI) standard ASCE 7-10, *Minimum Design Loads for Buildings and Other Structures*.

Grant applications must include maps that clearly indicate the structures to be retrofitted as being in this wind zone to be eligible to use the pre-determined benefits. A list of States, boroughs, counties, parishes, and territories that meet the 120 mph requirement is attached:

- **States, Boroughs, Counties, Parishes, and Territories That Meet the Qualification Requirements for Pre-Determined Benefits** This includes areas that are completely located within the 120 mph wind zone. These areas are automatically eligible to use the pre-determined benefit costs as long as the application includes a map with the structures clearly indicated on it (see **List 1**).
- **States, Boroughs, Counties, Parishes, and Territories That Are Partially Located in the 120 mph Wind Zone** For structures located in these areas FEMA will need to make the determination on a case by case basis if the pre-determined benefits can be used. Applicants/subapplicants will need to submit a map with the structures clearly indicated on it to FEMA, who will then determine if the structure is located in the wind zone and can use the pre-determined benefits (see **List 2**).

The residential wind retrofit projects for the intermediate and advanced package, as discussed in FEMA P-804, are cost effective as long as the total project costs are less than the maximum costs listed in the table below.

Mitigation Package Type	Roof Replacement Project	Maximum Costs
Intermediate Protection	No	\$13,153.00
Intermediate Protection	Yes	\$24,920.00
Advanced Protection	No	\$40,252.00
Advanced Protection	Yes	\$52,018.00

Cost estimates submitted for a hurricane wind retrofit project that use the pre-determined benefits must be developed using industry-accepted cost-estimation standards, vendor estimates, or other sources. The costs identified in this Job Aid cannot be used to estimate or develop application project costs. Only documented, eligible costs for completed work will be reimbursed. The estimated costs above may be adjusted by the Applicant or subapplicant using the most current

"FEMA's mission is to support our citizens and first responders to ensure that as a nation we work together to build, sustain, and improve our capability to prepare for, protect against, respond to, recover from, and mitigate all hazards."


1



BCA Exemptions

- **Precalculated Benefits for Certain Hospital Generators**
 - Must have an Emergency Department
 - Project must be a stand-alone solution
 - Total cost of the project must be less than pre-calculated benefits: \$6.95 per gross area, \$12.62 for rural hospitals

U.S. Department of Homeland Security
Washington, DC 20472

 FEMA

9/29/2021

INFORMATION

MEMORANDUM FOR: Regional Administrators
Regions I - X

ATTENTION: Regional Mitigation Division Directors
Hazard Mitigation Assistance Branch Chiefs

FROM: Kayed I. Lakhia, AIA, NCARB, LEED AP, CFM
Deputy Director, Hazard Mitigation Assistance/Mitigation
Directorate KAYED I
Federal Insurance and Mitigation Administration LAKHIA
Digitally signed by
KAYED I LAKHIA
Date: 2021.09.29
14:23:11 -0500

SUBJECT: **Pre-Calculated Benefits for Certain Hospital Generators to
Demonstrate Cost-Effectiveness**

I. Background and Purpose of this Memorandum
This memorandum establishes the use of a pre-calculated benefit to demonstrate cost-effectiveness for hospital generator projects.

Projects that are eligible for funding under FEMA's Hazard Mitigation Assistance (HMA) programs must demonstrate cost-effectiveness.¹ FEMA has developed several methodologies that applicants and subapplicants may use to demonstrate cost-effectiveness.² Generally, applicants and subapplicants demonstrate cost-effectiveness by conducting a benefit-cost analysis (BCA) that establishes that mitigation projects have a benefit-cost ratio (BCR) equal to or greater than 1.0.³ Additionally, FEMA provides several streamlined methodologies that applicants and subapplicants may use to demonstrate cost-effectiveness. One of these streamlined methodologies is pre-calculated benefits, in which FEMA calculates pre-determined cost-effectiveness values. Using these pre-calculated benefits eliminates the requirement for applicants to conduct a separate BCA for eligible projects.

¹ See, for example, for Building Resilient Infrastructure and Communities (BRIC), see Stafford Act Section 203(b); for Hazard Mitigation Grant Program (HMGP) and HMGP Post Fire, see Stafford Act Section 404 and 44 Code of Federal Regulation (CFR) 206.434(c)(5).
² In accordance with Office of Management and Budget (OMB) Circular A-94: Guidelines and Discount Rates for Benefit-Cost Analysis of Federal Programs.
³ A benefit-cost analysis is a quantitative analysis used to assess the cost-effectiveness of a hazard mitigation measure by comparing the project's avoided future damages to the costs over the project lifetime. The result is a Benefit-Cost Ratio (BCR), which is the numerical expression of the cost-effectiveness of a project calculated as the net present value of total project benefits divided by the net present value of total project costs. A project is generally considered to be cost-effective when the BCR is 1.0 or greater, indicating the benefits of a prospective hazard mitigation project are sufficient to justify the costs. For more information on cost-effectiveness and the BCA Toolkit, see the FEMA BCA webpage at <https://www.fema.gov/grants/guidance-tools/benefit-cost-analysis>.



Key Points



SCORE YOUR APPLICATION

**Understand what the reviewer is going to see on
your project**

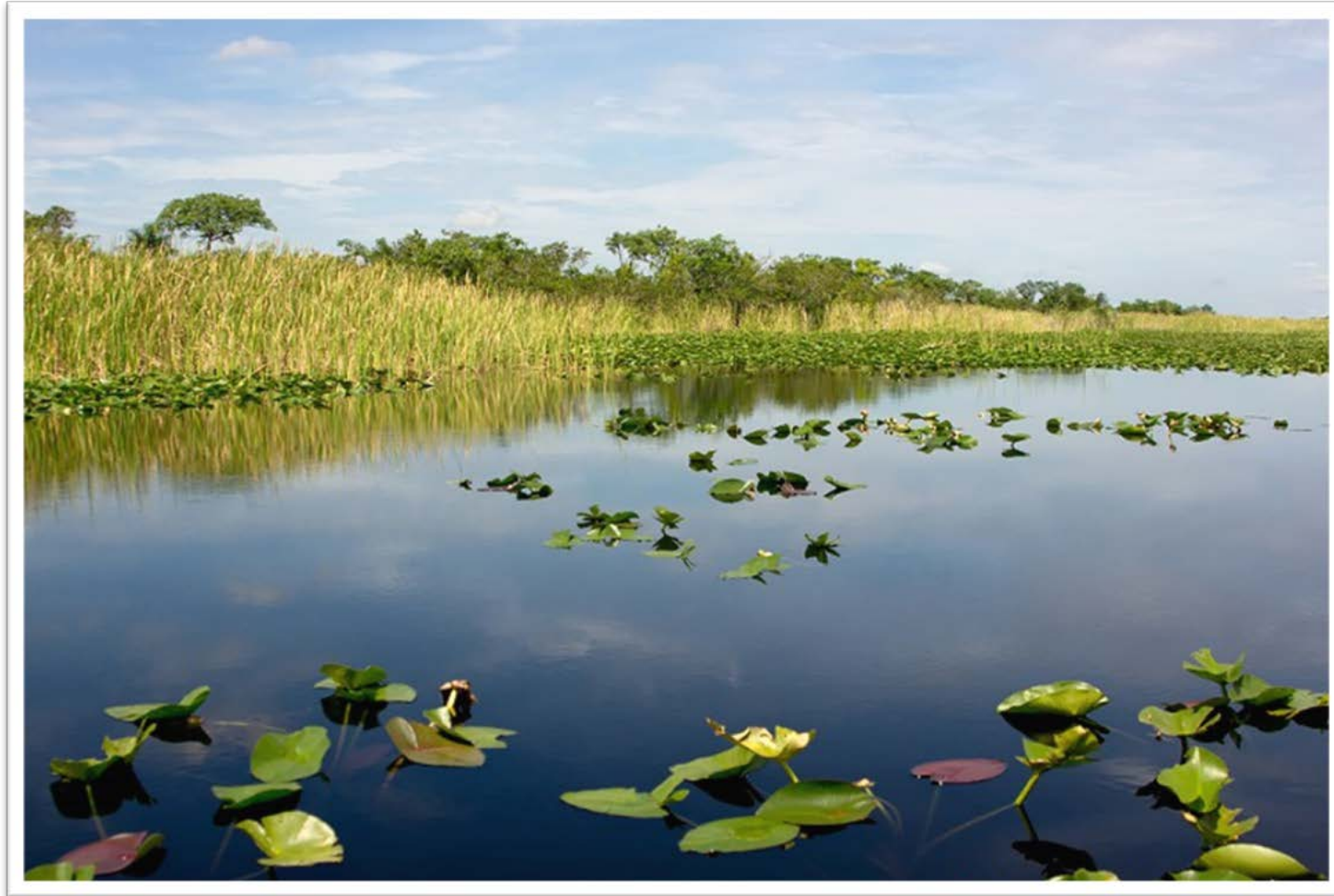


ENVIRONMENTAL REVIEW

Kayla Born



Environmental and Historic Preservation (EHP) Review



What are EHP Reviews?

Ensure projects seeking federal funding are compliant with the National Environmental Policy Act (NEPA) and the National Historic Preservation Act (NHPA)



N E P A

- All federal agencies must assess the environmental effects of the proposed action
- An umbrella law
 - Endangered Species Act
 - Clean Water Act
 - Clean Air Act
 - National Historic Preservation Act
 - Executive Orders:
 - Floodplains
 - Wetlands
 - Environmental Justice



Benefits of This Review Process

FDEM's Environmental Team has non-federal representation status and performs FEMA reviews for Hazard Mitigation Grant Program (HMGP) projects.

Allows the Environmental Team to bring our knowledge of FEMA reviews to these grant programs and build more complete and competitive applications.

We are here to help!



FEMA GO

Environmental/Historic Preservation (EHP) Review Information

Introduction

An environmental/historic preservation review is required for all activities for which FEMA funds are being requested. FEMA will complete this review with the assistance of both the state or tribal government and the local applicant. It is important that you provide accurate information. If you are having problems completing this section, please contact your application point of contact.

A. National Historic Preservation Act - Historic Buildings and Structures

1. Does your project affect or is it in close proximity to any buildings or structures 50 years or more in age?

B. National Historic Preservation Act - Archeological Resources

Does your project involve disturbance of ground?

C. Endangered Species Act and Fish and Wildlife Coordination Act

1. Are federally listed threatened or endangered species or their critical habitat present in the area affected by the project?

2. Does your project remove or affect vegetation?

3. Is your project in, near (within 200 feet), or likely to affect any type of waterway or body of water?

D. Clean Water Act, Rivers and Harbors Act, and Executive Order 11990 (Protection of Wetlands)

1. Will the project involve dredging or disposal of dredged material, excavation, adding fill material or result in any modification to water bodies or wetlands designated as 'waters of the U.S.' as identified by the US Army Corps of Engineers or on the National Wetland Inventory?

E. Executive Order 11988 (Floodplain Management)

1. Does a Flood Insurance Rate Map (FIRM), Flood Hazard Boundary Map (FHBM), hydrologic study, or some other source indicate that the project is located in or will affect a 100 year floodplain, a 500 year floodplain if a critical facility, an identified regulatory floodway, or an area prone to flooding?



National Historic Preservation Act

Divided into two sections:

- Historic Buildings and Structures
 - Does the project involve structures 45 years or older?
- Archeological Resources
 - Will any ground disturbance/digging be required for the project?
- Important Documents to include:
 - Maps detailing where project activities will be
 - Photos: clear and cover all sides of structures or areas disturbed
 - 1:24,000 USGS Topographic map
 - Description and map of any ground disturbance
 - Description of the features of structures that are being altered

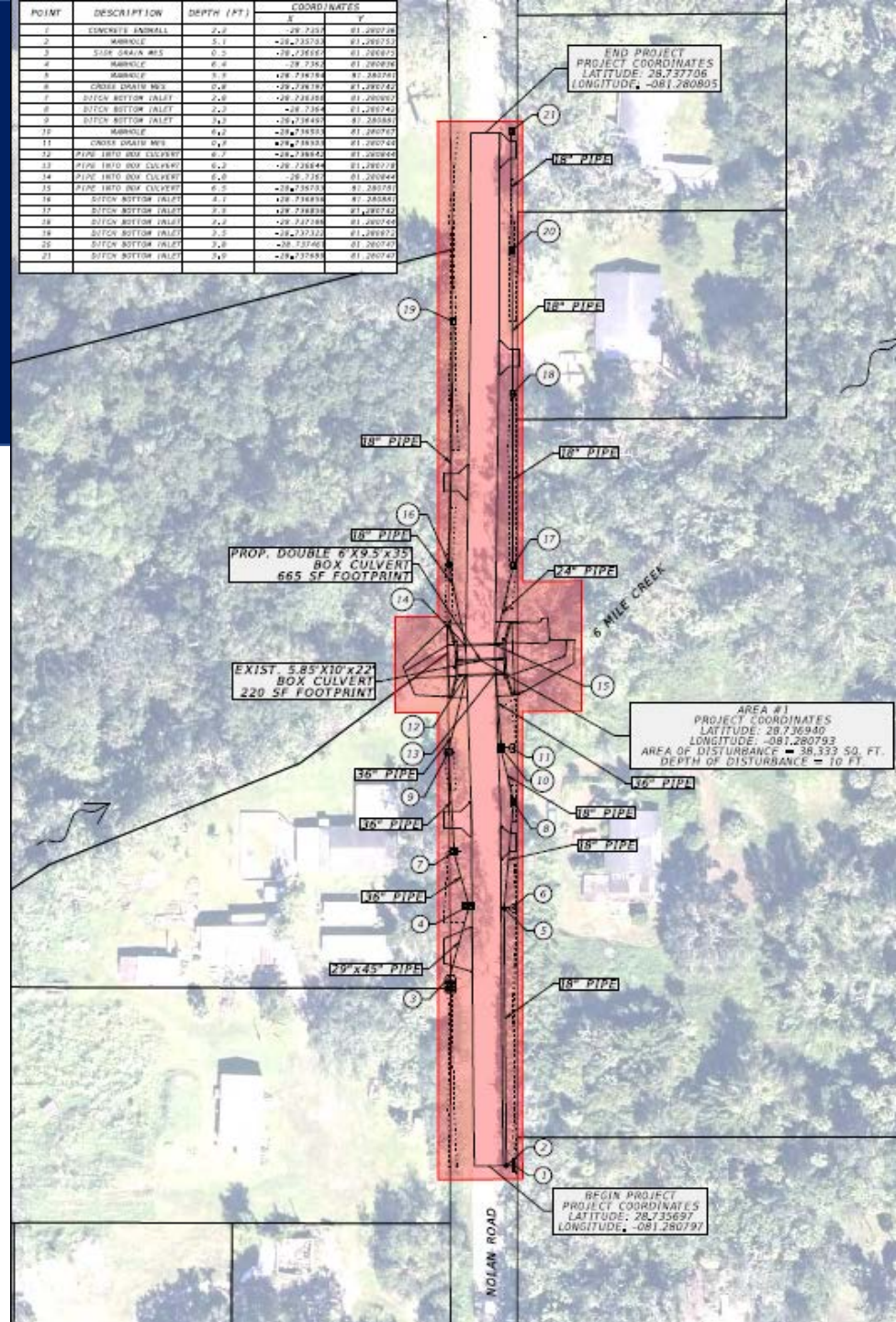


Ground Disturbance Maps & Project Area Maps

All projects need a map indicating where the project is taking place

Maps should:

- ✓ Include coordinates in decimal degree for all areas of work
- ✓ Clearly outline project areas
- ✓ Ground disturbance maps should include areas of ground disturbance in square feet and depth in inches



Endangered Species Act

All counties in Florida contains the range or habitat for at least one threatened or endangered species.

C. Endangered Species Act and Fish and Wildlife Coordination Act

1. Are federally listed threatened or endangered species or their critical habitat present in the area affected by the project?

Yes

Please confirm that you have provided the information listed below by selecting each check box. (If you have not provided these documents in any other section of the application, please provide the required documents either through attachment and/or comment box below.)

Information you obtained to identify species in or near the project area. Provide the source and date of the information cited.

To help FEMA evaluate the impact of the project, please indicate below any other information you are providing. (optional)

Any request for information and associated response from the USFWS, the National Marine Fisheries Service (NMFS) (for affected ocean-going fish), or your State Wildlife Agency, regarding potential listed species present and potential of the project to impact those species.

Attached materials or additional comments.

Please provide an explanation and any information about this project that could assist FEMA in its review. (optional)

No

Not known

Information about species in or near the project area can be found at
<https://ipac.ecosphere.fws.gov/>

Wetlands and Waterbodies

- FEMA uses the National Wetlands Inventory to determine wetland locations
- If the project occurs in or near a mapped wetland or a waterbody, a consultation with US Army Corps of Engineers (USACE) or Florida Department of Environmental Protection (FDEP) is required (depending on location)



Floodplains

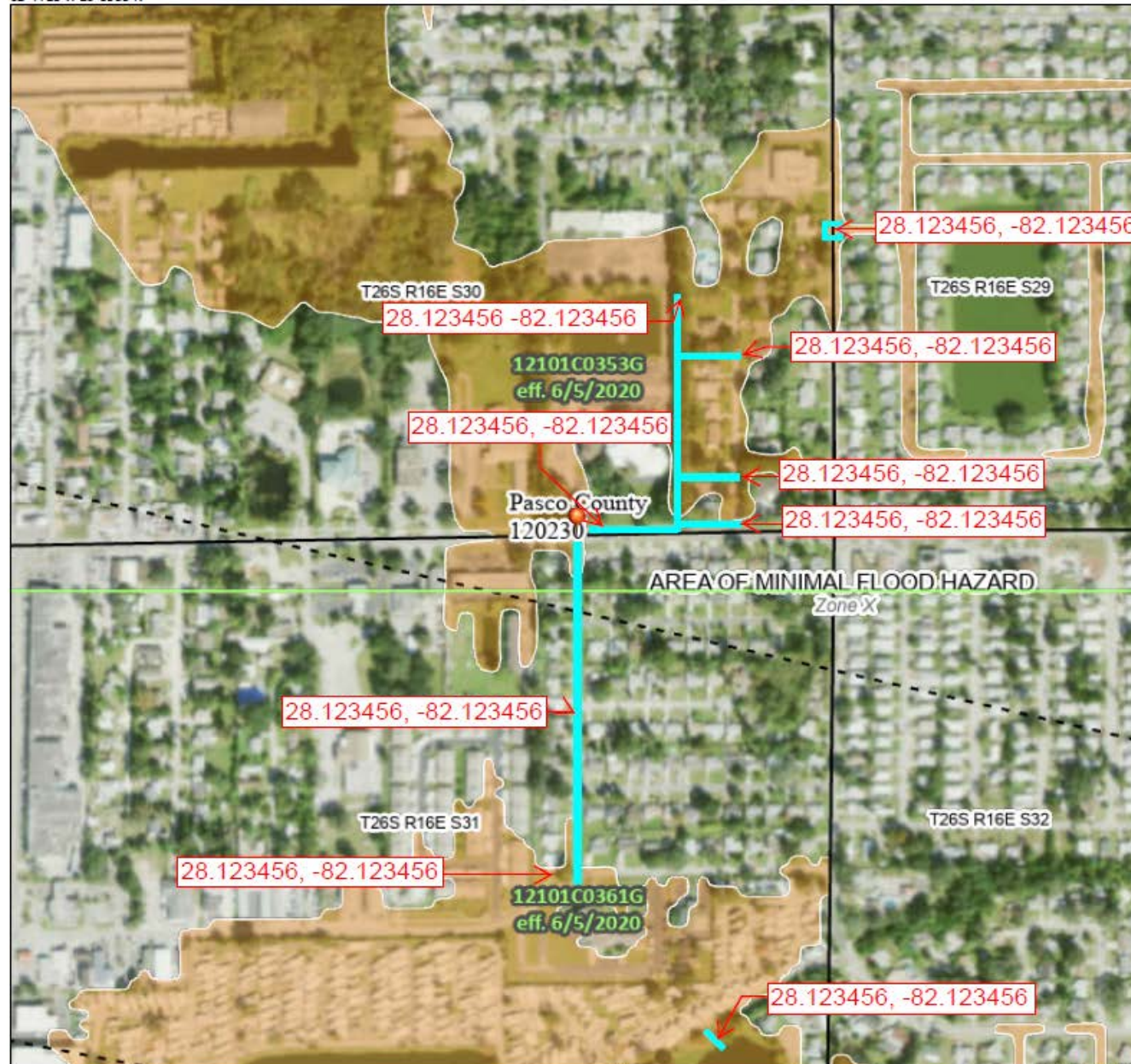
- Projects within mapped floodplains, that affect floodplains, or are being implemented to reduce flood risk or flood loss require public involvement and project alternatives.
- FDEM staff will provide public notice templates and guides during the review process.
- Public notice comment periods are between 15 and 30 days depending on project type.
- Project alternatives should include detailed descriptions and explanations of why it wasn't chosen.



National Flood Hazard Layer FIRMette



82°44'21"W 28°11'33"N



0 250 500 1,000 1,500 2,000 Feet 1:6,000
 Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
MAP PANELS		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped
		The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 7/27/2022 at 10:08 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Coastal Zone Management Act

The entire state of Florida is within the state's designated coastal zone.

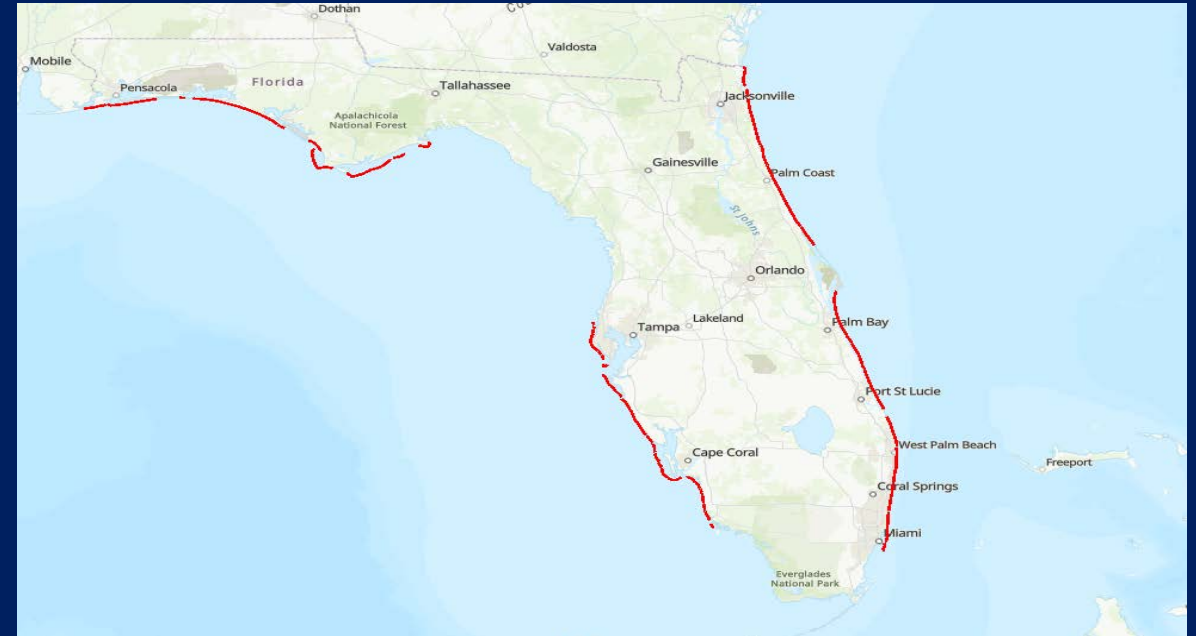
1. Is the project located in the state's designated coastal zone?

Yes

Please confirm that you have provided the information listed below by selecting each check box. (If you have not provided these documents in any other section of the application, please attach the required documents below.)

- Information resulting from contact with the appropriate state agency that implements the coastal zone management program regarding the likelihood of the projects consistency with the state's coastal zone plan and any potential requirements affecting the cost or design of the proposed activity.
- Attached materials or additional comments.

Please provide an explanation and any information about this project that could assist FEMA in its review. (optional)



Farmlands

- Are there over 5 acres of land being converted to a different land use?
- Mostly looking at areas outside cities



Hazardous & Toxic Materials

- Resource Conservation and Recover Act (RCRA) and Comprehensive Environmental Response Compensation and Liability Act (CERCLA).
- Includes:
 - Asbestos & asbestos containing material
 - Lead-based pain
 - Paints & solvents
 - Coolants
 - Petroleum products
 - Unusable equipment
- Any Superfund sites in or near the project location?



Environmental Justice

FEMA considers all project locations as areas with potential to impact low income or minority populations

I. Executive Order 12898, Environmental Justice for Low Income and Minority Populations

1. Are there low income or minority populations in the project's area of effect or adjacent to the project area?

Yes

If Yes, you must confirm that you have provided the following either in the text box below or by attachment: (If you have not provided these documents in any other section of the application, please attach the required documents or provide the description below.)

Description of any disproportionate and adverse effects to these populations.

To help FEMA evaluate the impact of the project, please indicate below any other information you are providing. (optional)

Description of the population affected and the portion of the population that would be disproportionately and adversely affected. Please include specific efforts to address the adverse impacts in your proposal narrative and budget.

Attached materials or additional comments.

Please provide an explanation and any information about this project that could assist FEMA in its review. (optional)

No

Not known

If the project provides benefits to these populations, include a description

Attachments

All projects should include (at minimum):

- ✓ Complete and detailed Scope of Work
- ✓ Coordinates in decimal degree format (Example: 28.123456, -80.123456)
- ✓ Photos (minimum of 4)
- ✓ Aerial map outlining project areas
- ✓ FIRM/FIRMette
- ✓ USGS Topographic map (1:24000 scale)
- ✓ Any applicable permits obtained or permit applications
- ✓ For structures: documentation showing year built (property appraiser)



How Can You Help Us?

- Answer all questions in FEMA Go to the best of your ability.
- Respond to Requests for Information (RFI) as soon as possible.
- Answer all parts of the RFIs.
- Be understanding, we are here to help!



PROGRAM SUPPORT MATERIALS



FMA Program Support Materials

FDEM's FMA Website:

<https://www.floridadisaster.org/dem/mitigation/flood-mitigation-assistance-program/>

FEMA's FMA Website:

<https://www.fema.gov/grants/mitigation/floods>

FY 2022 FMA Notice of Funding Opportunity & Fact Sheet (*forthcoming*)

FMA Resources

- FMA Community Flood Mitigation Project Fact Sheet
- FMA Individual Flood Mitigation Fact Sheet
- FMA Project Scoping Fact Sheet
- Geospatial File Eligibility Criteria in Flood Mitigation Grant Applications



BRIC Program Support Materials

FDEM's BRIC Website: <https://www.floridadisaster.org/dem/mitigation/building-resilient-infrastructure-and-communities-bric-grant-program/>

FEMA's BRIC Website: <https://www.fema.gov/grants/mitigation/building-resilient-infrastructure-communities>

FY 2022 BRIC Notice of Funding Opportunity & Fact Sheet (*forthcoming*)

BRIC Resources

- BRIC Technical Criteria
- BRIC Qualitative Criteria
- BRIC Building Codes Activities
- BRIC Mitigation Planning Activities
- BRIC Partnership Activities
- BRIC Project Scoping Activities
- BRIC Phased Projects
- BRIC Direct Technical Assistance
- BRIC Tribal Information
- Mitigation Action Portfolio



Additional Resources

Unified Hazard Mitigation Assistance Guidance & Addendum

- <https://www.fema.gov/grants/mitigation/hazard-mitigation-assistance-guidance>

Hazard Mitigation Assistance Job Aids

- <https://www.fema.gov/grants/mitigation/job-aids>

Hazard Mitigation Assistance Cost Share Guide

- https://www.fema.gov/sites/default/files/2020-08/fema_hma_cost-share-guide.pdf



2022 FEMA Hazard Mitigation Assistance Webinars

August 4, 2022 – October 4, 2022

To Register For FEMA's Webinars:

<https://www.fema.gov/grants/mitigation/applying/webinars>



Where do I go for help?

FEMA GO Help Desk

For technical questions such as error messages or forgotten password

femago@fema.dhs.gov

1-877-585-3242

HMA Helpline

For programmatic questions about HMA grant programs such as eligibility

1-866-222-3580

BCA Helpline

For assistance using FEMA's Benefit Cost Analysis tool

BCHelpline@fema.dhs.gov

1-855-540-6744



Where do I go for help?

Feasibility and Effectiveness Helpline

FEMA-BuildingScienceHelp@fema.dhs.gov

Environmental and Historic Preservation Helpline

To assist applicants and sub-applicants with questions about grant applications and requirements for environmental and historic preservation compliance

EHPHelpline@fema.dhs.gov

1-866-222-3580



Where do I go for help?

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Questions?

