

West Easton Borough, Northampton County Annex

Hazard Mitigation Plan Points-of-Contact

Primary:

Peter Mammana
Councilman
220 10th Street, West Easton, PA 18042
610-252-1387
coolrunnings@ptd.net

Alternate:

Dan DePaul
Mayor
302 9th Street, West Easton, PA 18042
610-905-3739
dcd409@aol.com

Municipal Profile

West Easton Borough is located in the southeastern part of Northampton County. It encompasses an area of approximately 0.3 square miles and has a population of 1,237 (2020 Census). The borough is bordered by Easton to the east and is otherwise surrounded by Wilson Borough.

The Lehigh River forms the borough's eastern border with Easton and Glendon Borough. There are no other waterways or bodies of water of significance in the borough.

West Easton Borough consists of a network of small roads. Lehigh Drive follows the Lehigh River along the borough's eastern edge.

Municipal Participation

1. Identify municipal stakeholders to be involved in the planning process such as, floodplain administrator, public works, emergency management, engineers, planners, etc., and include their specific role in the process.

Peter Mammana, Councilman
Role: Councilman

Dan DePaul, Council President/Mayor
Role: Council President/Mayor

Barry Isett & Associates, Engineer/Code
Role: Engineer

Bill Concolino, Emergency Management Coordinator
Role: EMC

Joan Heebner, Secretary/Manager
Role: Secretary/Manager

Bill Bogari, Jr., Fire Chief
Role: Fire Chief

2. Identify community stakeholders such as; neighborhood groups, religious groups, major employers / businesses, etc., that will be informed and / or involved in the planning process and describe how they will be involved.

None

3. Describe how the public **will be engaged** in the current planning process (examples, newsletters, social media, etc.), **and how they were engaged** since the 2018 Hazard Mitigation Plan.

Current: Newsletters, Facebook, Borough website

Past: Same

Compliance with the National Flood Insurance Program (NFIP)

Topic	Identify source of information if different from the one listed.	Additional Comments
1. Staff Resources		
Is the Community Floodplain Administrator (FPA) or NFIP Coordinator certified?	Community FPA	Zoning
Is floodplain management an auxiliary function?	Community FPA	Yes
Provide an explanation of NFIP administration services (e.g., permit review, GGIS, education or outreach, inspections, engineering capability)	Community FPA	Barry Isett & Associates, 3 rd party
What are the barriers to running an effective NFIP program in the community, if any?	Community FPA	N/A
2. Compliance History		
Is the community in good standing with the NFIP?	State NFIP Coordinator, FEMA NFIP Specialist, or community records	N/A
Are there any outstanding compliance issues (i.e., current violations)?		No
When was the most recent Community Assistance Visits (CAV) or Community Assistance Contact (CAC)?		N/A
Is a CAV or CAC scheduled or needed?		N/A
3. Regulation		
When did the community enter the NFIP?	NFIP Community Status Book	12/28/1973
Are the Flood Insurance Rate Maps (FIRMs) digital or paper? How are residents assisted with mapping?	Community FPA	Paper maps (2014) refer to FEMA website
Do floodplain regulations meet or exceed FEMA or State minimum requirements? If so, in what ways?	Community FPA	Meets
Describe the permitting process	Community FPA, State, FEMA NFIP	Turn over to our code inspector, Barry Isett & Associates
4. Insurance Summary		
How many NFIP policies are in the community? What is the total premium and coverage?	State NFIP Coordinator or FEMA NFIP Specialist	As of 9/22/2023 – 2 policies & \$2,615 in premiums
How many claims have been paid in the community? What is the total amount of paid claims? How many substantial damage claims have there been?	FEMA NFIP or Insurance Specialist	As of 9/22/2023 – 29 claims & \$1,440,879.95 paid to claims
How many structures are exposed to flood risk within the community?	Community FPA or GIS Analyst	N/A
Describe any areas of flood risk with limited NFIP policy coverage	Community FPA or FEMA Insurance Specialist	N/A

Compliance with the National Flood Insurance Program (NFIP) – *continued*

5. Community Rating System (CRS)		
Does the community participate in CRS?	Community FPA, State, or FEMA NFIP	No
If so, what is the community's CRS Class Ranking?	Flood Insurance Manual (http://www.fema.gov/floodinsurancemanual.gov)	N/A
What categories and activities provide CRS points and how can the Class be improved?		N/A
Does the plan include CRS planning requirements?	Community FPA, FEMA CRS Coordinator, or ISO representative	N/A

Community Assets

Community assets are defined to include anything that is important to the character as well as the function of a community, and can be described in four categories, they are; people, economy, natural environment and built environment. Please identify the community assets and location under each category.

1. People

- ✦ Concentrations of vulnerable populations such as the elderly, physically or mentally disabled, non-English speaking, and the medically or chemically dependent.

DUI Center (Rehabilitation Center – Northampton County)

- ✦ Types of visiting populations where large numbers of people are concentrated such as visitors for special events and students.

None

2. Economy

- ✦ Major employers, primary economic sectors such as agriculture and commercial centers where losses would have a severe impact on the community.

Adamson Street Businesses

3. Natural Environment

- ✦ Those areas / features that can provide protective functions that reduce the magnitude of hazard events such as, wetlands or riparian areas, and other environmental features important to protect.

None

4. Built Environment

- ✦ Existing structures such as, concentrations of buildings that may be more vulnerable to hazards based on location, age, construction type and / or condition of use.

None

- ✦ Infrastructure systems such as water and wastewater facilities, power utilities, transportation systems, communication systems, energy pipelines and storage.

None

- ✦ High potential loss facilities such as, dams, locations that house hazardous materials, military and / or civilian defense installations.

None

Community Assets – *continued*

- ✦ Critical facilities such as, hospitals, medical facilities, police and fires stations, emergency operations centers, shelters, schools and airports / heliports.

None

- ✦ Cultural / historical resources such as, museums, parks, stadiums, etc.

Spring House

Stage Coach Apartments

Main Street Property – home from 1700's

Capability Assessment

Capability	<ul style="list-style-type: none"> ✓ Regulatory ✓ Tools ✓ Programs 	Status			Department / Agency Responsible	Effect on Hazard Loss Reduction: - Supports - Neutral - Hinders	Change since 2018 Plan? + Positive - Negative	Has the 2018 Plan been integrated into the Regulatory Tool/Program ? If so, how?	How can these capabilities be expanded and improved to reduce risk?	Additional Comments
		In Place	Date Adopted or Updated	Under Development						
1. Planning & Regulatory	Comprehensive Plan			X						
	Capital Improvement Plan			X						
	Economic Development Plan			X						
	Continuity of Operations Plan			X						
	Stormwater Management Plan / Ordinance	X	1/2016		Council	S	+	No		
	Open Space Management Plan (or Parks/Rec., Greenways Plan)	X	1/2016		Council	S	+	No		
	Natural Resource Protection Plan			X						
	Transportation Plan			X						
	Historic Preservation Plan			X						
	Floodplain Management Plan			X						
	Farmland Preservation			X						
	Evacuation Plan			X						
	Disaster Recovery Plan			X						
	Hazard Mitigation Plan	X	2018	X				N/A		
	Emergency Operations Plan		8/2011	X						
	Zoning Regulations	X	12/1992		Council	S	+	No		
	Floodplain Regulations	X	12/1992		Council	S	+	No		
	NFIP Participation									
	Building Code	X								
Fire Code	X									
Other										

Capability Assessment – continued

Capability	✓ Staff ✓ Personnel ✓ Resources	Yes	No	Department / Agency	Change since 2018 Plan? + Positive - Negative	How can these capabilities be expanded and improved to reduce risk?	Additional Comments
2. Administrative & Technology	Planners (with land use / land development knowledge)						
	Planners or engineers (with natural and / or human caused hazards knowledge)	X		Engineer (Barry Isett & Associates)			
	Engineers or professionals trained in building and / or infrastructure construction practices (including building inspectors)	X		Barry Isett & Associates			
	Emergency Manager			Emergency Management Coordinator			
	Floodplain administrator / manager			Emergency Management Coordinator			
	Land surveyors			Barry Isett & Associates			
	Staff familiar with the hazards of the community	X		Council			
	Personnel skilled in Geographical Information Systems (GIS) and / or FEMA's HAZUS program						
	Grant writers or fiscal staff to handle large / complex grants	X		Barry Isett & Associates			
	Other						

Capability Assessment – continued

Capability		Yes	No	Department / Agency	Change since 2018 Plan? + Positive - Negative	How can these capabilities be expanded and improved to reduce risk?	Additional Comments
3. Financial Resources	Capital improvement programming	X		Council	No		
	Community Development Block Grants (CDBG)	X		Council	No		
	Special purposes taxes						
	Gas / Electricity utility fees						
	Water / Sewer fees	X		Staff	No		
	Stormwater utility fees						
	Development impact fees						
	General obligation, revenue, and / or special tax bonds						
	Partnering arrangements or intergovernmental agreements						
	Other						

Capability	✓ Program ✓ Organization	Yes	No	Department / Agency	Change since 2018 Plan? + Positive - Negative	How can these capabilities be expanded and improved to reduce risk?	Additional Comments
4. Education & Outreach	Firewise Communities Certification						
	StormReady Certification						
	Natural disaster or safety-related school programs						
	Ongoing public education or information programs such as, responsible water use, fire safety, household preparedness, and environmental education.	X		Fire Company	No		
	Public-private partnership initiatives addressing disaster related issues.						
	Local citizen groups or non-profit organizations focused on environmental protection, emergency preparedness, access and functional needs populations, etc.						
	Other						

Capability Assessment – continued

Capability		Degree of Capability			Change since the 2018 Hazard Mitigation Plan? If so, how?	Additional Comments
		Limited	Moderate	High		
5. Self – Assessment	Planning and Regulatory		X		No	
	Administrative and Technical		X		No	
	Financial		X		No	
	Education and Outreach		X		No	

Known or Anticipated Future Development / Redevelopment

Development / Property Name	Type of Development	Number of Structures	Location	Known Hazard Zone	Description / Status
Laurel Hills	Residential	Approx. 30	Palmer Street	-----	No work has begun

Natural & Non-Natural Event History Specific to Borough of West Easton

Type of Event and Date(s)	FEMA Disaster # (if applicable)	Local Damage(s) or Loss(es)
COVID-19 Pandemic – March, 2020	DR-4506-PA	Emergency Protective measures to combat COVID-19 Pandemic.
Remnants of Hurricane Ida – August, 2022	DR-4618-PA	Assistance to eligible individuals and families affected by this disaster.

2018 Municipal Action Plan Status

	Existing Mitigation Action (from 2018 Hazard Mitigation Plan)	Status					Additional Comments
		No Progress / Unknown	In Progress	Continuous	Completed	Discontinued	
1	Retrofit structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority. Phase 1: Identify appropriate candidates for retrofitting based on cost-effectiveness versus relocation. Phase 2: Where retrofitting is determined to be a viable option, work with property owners toward implementation of that action based on available funding from FEMA and local match availability.			X			One business retrofitted by raising above the floodplain.
2	Purchase, or relocate structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority. Phase 1: Identify appropriate candidates for relocation based on cost-effectiveness versus retrofitting. Phase 2: Where relocation is determined to be a viable option, work with property owners toward implementation of that action based on available funding from FEMA and local match availability.					X	13 residences have 25 – foot setback from the road. Action carried over to the 2018 Action Plan.
3	Maintain compliance with and good standing in the NFIP including adoption & enforcement of floodplain management requirements (e.g. regulating all new & substantially improved construction in Special Hazard Flood Areas), floodplain identification & mapping, & flood insurance outreach to the community. Further, continue to meet and/or exceed the minimum NFIP standards and criteria through the following NFIP- related continued compliance actions identified below.				X		Residence and business have their own flood insurance. Will inform them of NFIP. Action carried over to the 2018 Action Plan.
4	Conduct and facilitate community and public education and outreach for residents and businesses to include, but not be limited to, the following to promote and effect natural hazard risk reduction: - Provide and maintain links to the HMP website, and regularly post notices on the County/municipal homepage(s) referencing the HMP webpages. - Prepare and distribute informational letters to flood vulnerable property owners and neighborhood associations, explaining the availability of mitigation grant funding to mitigate their properties, and instructing them on how they can learn more and implement mitigation. - Use email notification systems and newsletters to better educate the public on flood insurance, the availability of mitigation grant funding, and personal natural hazard risk reduction measures. - Work with neighborhood associations, civic and business groups to disseminate information on flood insurance and the availability of mitigation grant funding.		X				Will notify residents of the HMP website and flood insurance through the NFIP program in our newsletter.

2018 Municipal Action Plan Status – continued

Existing Mitigation Action (from 2018 Hazard Mitigation Plan)		Status					Additional Comments
		No Progress / Unknown	In Progress	Continuous	Completed	Discontinued	
5	Begin and/or continue the process to adopt higher regulatory standards to manage flood risk (i.e. increased freeboard, cumulative substantial damage/improvements).			X	X		We adopted a floodplain ordinance. Added an X to Completed because ordinance adopted. Action carried over to the 2018 Action Plan.
6	Determine if a Community Assistance Visit (CAV) or Community Assistance Contact (CAC) is needed, and schedule if needed.				X		We adopted a floodplain ordinance. Action carried over to the 2018 Action Plan.
7	Have designated NFIP Floodplain Administrator (FPA) become a Certified Floodplain Manager through the ASFPM and/or pursue relevant continuing education training such as FEMA Benefit Cost Analysis.				X		Through Barry Isett & Associates. Action carried over to the 2018 Action Plan.
8	Participate in the Community Rating System (CRS) to further manage flood risk and reduce flood insurance premiums for NFIP policyholders. This shall start with the submission to FEMA-DHS of a Letter of Intent to join CRS, followed by the completion and submission of an application to the program once the community's current compliance with the NFIP is established.	X					Will look into the letter of intent to join CRS in the future.
9	Obtain and archive elevation certificates for NFIP compliance.			X			We have floodplain maps.
10	Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Section 7.0.			X			Will be updating this plan on an ongoing basis.
11	Complete the ongoing updates of the Comprehensive Emergency Management Plans.			X			Working with our Emergency Management Coordinator.
12	Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations.			X			We work with the City of Easton, Palmer Township and Wilson Borough.
13	Develop & maintain capabilities to process FEMA/PEMA paperwork after disasters; qualified damage assessment personnel – Improve post-disaster capabilities – damage assessment; FEMA/PEMA paperwork compilation, submissions, record keeping.			X			Work with local contractors when we have a declared emergency.
14	Work with regional agencies (i.e. County and PEMA) to help develop damage assessment capabilities at the local level through such things as training programs, certification of qualified individuals (e.g. code officials, floodplain managers, engineers).			X			Work with Northampton County, FEMA and our engineers

2018 Municipal Action Plan Status – continued

	Existing Mitigation Action (from 2018 Hazard Mitigation Plan)	Status					Additional Comments
		No Progress / Unknown	In Progress	Continuous	Completed	Discontinued	
15	Coordinate with the County Emergency Management Agency & PA Department of Health, which is responsible for setting up points of distribution & providers for immunizations.			X			
16	Develop a neighborhood cleanup plan designed to remove discarded tires, trash and other items in which standing water can form.			X			
17	Provide training and education for first responders to ensure effective emergency care.			X			
18	Purchase and installation of permanent, alternate power source (IE. generator) at numerous critical facility sites within the borough such as the; borough municipal building – serves as our local Emergency Operations Center (EOC) and shelter facility, borough police department building, and other facilities labeled as critical within the borough.			X			

Notes:

1. Actions not carried through to the 2023 Action Plan are so noted.
2. To maintain National Flood Insurance Program (NFIP) compliance, actions related to the NFIP were carried through to the 2023 Action Plan even if identified by the municipality as completed.

2023 Mitigation Action Plan

Mitigation Action		Mitigation Action Category	Mitigation Technique Category	Hazard(s) Addressed	Priority (H / M / L)	Estimated Cost	Potential Funding	Lead Agency / Department	Implementation Schedule	Applies to New and / or Existing Structures
1	Retrofit structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority. Phase 1: Identify appropriate candidates for retrofitting based on cost-effectiveness versus relocation. Phase 2: Where retrofitting is determined to be a viable option, work with property owners toward implementation of that action based on available funding from FEMA and local match availability.	1	Structure & Infrastructure	Flood	High	High	FEMA Mitigation Grant Programs and local budget (or property owner) for cost share	Municipality (via Municipal Engineer/NFIP Floodplain Administrator) w/ support from PEMA, FEMA	Long-term (depending on funding)	Existing
2	Purchase, or relocate structures located in hazard- prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority. Phase 1: Identify appropriate candidates for relocation based on cost-effectiveness versus retrofitting. Phase 2: Where relocation is determined to be a viable option, work with property owners toward implementation of that action based on available funding from FEMA and local match availability.	2	Structure & Infrastructure	Flood	High	High	FEMA Mitigation Grant Programs and local budget (or property owner) for cost share	Municipality (via Municipal Engineer/NFIP Floodplain Administrator) w/ support from PEMA, FEMA	Long-term (depending on funding)	Existing

2023 Mitigation Action Plan – continued

Mitigation Action		Mitigation Action Category	Mitigation Technique Category	Hazard(s) Addressed	Priority (H / M / L)	Estimated Cost	Potential Funding	Lead Agency / Department	Implementation Schedule	Applies to New and / or Existing Structures
3	Maintain compliance with and good standing in the NFIP including adoption & enforcement of floodplain management requirements (e.g. regulating all new & substantially improved construction in Special Hazard Flood Areas), floodplain identification & mapping, & flood insurance outreach to the community. Further, continue to meet and/or exceed the minimum NFIP standards and criteria through the following NFIP- related continued compliance actions identified below.	3	Local plans & Regulations	Flood	High	Low - Medium	Municipal Budget	Municipality (via Municipal Engineer/NFIP Floodplain Administrator) w/ support from PEMA, ISO FEMA	Ongoing	New & Existing

2023 Mitigation Action Plan – continued

	Mitigation Action	Mitigation Action Category	Mitigation Technique Category	Hazard(s) Addressed	Priority (H / M / L)	Estimated Cost	Potential Funding	Lead Agency / Department	Implementation Schedule	Applies to New and / or Existing Structures
4	Conduct & facilitate community & public education & outreach for residents & businesses to include, but not be limited to, the following to promote & effect natural hazard risk reduction: - Provide and maintain links to the HMP website, and regularly post notices on the County/municipal homepage(s) referencing the HMP webpages. - Prepare and distribute informational letters to flood vulnerable property owners and neighborhood associations, explaining the availability of mitigation grant funding to mitigate their properties, and instructing them on how they can learn more and implement mitigation. - Use email notification systems and newsletters to better educate the public on flood insurance, the availability of mitigation grant funding, and personal natural hazard risk reduction measures. - Work with neighborhood associations, civic and business groups to disseminate information on flood insurance and the availability of mitigation grant funding.	4	Education & Awareness	All Hazards	High	Low-Medium	Municipal Budget	Municipality w/ support from Planning Partners, PEMA, FEMA	Short-term	N/A

2023 Mitigation Action Plan – continued

Mitigation Action		Mitigation Action Category	Mitigation Technique Category	Hazard(s) Addressed	Priority (H / M / L)	Estimated Cost	Potential Funding	Lead Agency / Department	Implementation Schedule	Applies to New and / or Existing Structures
5	Begin and/or continue the process to adopt higher regulatory standards to manage flood risk (i.e. increased freeboard, cumulative substantial damage / improvements) and sinkhole risk (e.g. carbonate bedrock standards).	5	Local plans & Regulations	Flood	High	Low	Municipal Budget	Municipality (via Municipal Engineer/NFIP Floodplain Administrator) w/ support from PEMA, FEMA	Short-term	New & Existing
6	Determine if a Community Assistance Visit (CAV) or Community Assistance Contact (CAC) is needed, and schedule if needed.	3	Local plans & Regulations	Flood	High	Low	Municipal Budget	NFIP Floodplain Administrator w/ support from PADEP, PEMA, FEMA	Short-term	N/A
7	Have designated NFIP Floodplain Administrator (FPA) become a Certified Floodplain Manager through the ASFPM and/or pursue relevant continuing education training such as FEMA Benefit-Cost Analysis.	6	Local plans & Regulations	Flood	Medium	Low	Municipal Budget	NFIP Floodplain Administrator	Short-term (depending on funding)	N/A

2023 Mitigation Action Plan – continued

Mitigation Action		Mitigation Action Category	Mitigation Technique Category	Hazard(s) Addressed	Priority (H / M / L)	Estimated Cost	Potential Funding	Lead Agency / Department	Implementation Schedule	Applies to New and / or Existing Structures
8	Participate in the Community Rating System (CRS) to further manage flood risk and reduce flood insurance premiums for NFIP policyholders. This shall start with the submission to FEMA-DHS of a Letter of Intent to join CRS, followed by the completion and submission of an application to the program once the community's current compliance with the NFIP is established.	7	Local plans & Regulations	Flood	Medium	Low	Municipal Budget	NFIP Floodplain Administrator w/ support from PA DEP, PEMA, FEMA	Short-term	N/A
9	Obtain and archive elevation certificates for NFIP compliance.	8	Local plans & Regulations	Flood, Windstorm/ Tornado, Winter Storm	High	Low	Municipal Budget	NFIP Floodplain Administrator	Ongoing	N/A
10	Continue to support the implementation, monitoring, maintenance, and updating of this Plan as defined in Section 7.0.	9	All Categories	All Hazards	High	Low – High (for 5-year update)	Municipal Budget, possibly FEMA Mitigation Grant Funding for 5-year update	Municipality (via mitigation planning point of contacts) w/ support from Planning Partners (through their Points of Contact), PEMA	Ongoing	New & Existing
11	Complete the ongoing updates of the Comprehensive Emergency Management Plans.	10	Local plans & Regulations	All Hazards	High	Low	Municipal Budget	Municipality w/ support from PEMA	Ongoing	New & Existing

2023 Mitigation Action Plan – continued

Mitigation Action		Mitigation Action Category	Mitigation Technique Category	Hazard(s) Addressed	Priority (H / M / L)	Estimated Cost	Potential Funding	Lead Agency / Department	Implementation Schedule	Applies to New and / or Existing Structures
12	Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations.	11	All Categories	All Hazards	High	Low	Municipal Budget	Municipality w/ support from surrounding municipalities and County	Ongoing	New & Existing
13	Develop and maintain capabilities to process FEMA/PEMA paperwork after disasters; qualified damage assessment personnel – Improve post-disaster capabilities – Damage assessment; FEMA/PEMA paperwork compilation, submissions, record keeping.	12	Education & Awareness	All Hazards	Medium	Medium	Municipal Budget	Municipality w/ support from County, PEMA, FEMA	Short-term	N/A
14	Work with regional agencies (i.e. County and PEMA) to help develop damage assessment capabilities at the local level through such things as training programs, certification of qualified individuals (e.g. code officials, floodplain managers, engineers).	13	Education & Awareness	All Hazards	Medium	Medium	Municipal Budget, FEMA HMA grant programs	Municipality w/ support from County, PEMA	Short-, long-term (depending on funding)	N/A
15	Coordinate with the County Emergency Management Agency & PA Department of Health, which is responsible for setting up points of distribution & providers for immunizations.	11	Local plans & Regulations	Pandemic & Infectious Disease	Medium	Low	Municipal Budget	Municipality, working w/ County EMA and PA Department of Health	Ongoing	N/A

2023 Mitigation Action Plan – continued

Mitigation Action		Mitigation Action Category	Mitigation Technique Category	Hazard(s) Addressed	Priority (H / M / L)	Estimated Cost	Potential Funding	Lead Agency / Department	Implementation Schedule	Applies to New and / or Existing Structures
16	Develop a neighborhood cleanup plan designed to remove discarded tires, trash and other items in which standing water can form.	27	Education & Awareness	Invasive Species	High	Low	Municipal Budget	Municipality	Short-Term	N/A
17	Provide training and education for first responders to ensure effective emergency care.	27	Local plans & Regulations	Drug Overdose Crisis	High	Low	Municipal Budget	Municipality	Ongoing	N/A
18	Purchase and installation of permanent, alternate power source (IE. generator) at numerous critical facility sites within the borough such as the; borough municipal building – serves as our local Emergency Operations Center (EOC) and shelter facility, borough police department building, and other facilities labeled as critical within the borough.	17	Structure & Infrastructure	All Hazard	High	Medium – High	FEMA Mitigation Grant Programs, Municipal Budget	Municipality w/ support from Local EM, Public Works	Short-Term	Existing

Notes:

Estimated Costs:

- Where actual project costs have been reasonable estimated: Low = < \$10,000; Medium = \$10,000 to \$100,000; High = > \$100,000; - Where actual project costs cannot reasonably be established at this time:

Low = Possible to fund under existing budget. Project is part of, or can be part of an existing on-going program.

Medium = Could budget for under existing work plan, but would require a reapportionment of the budget or a budget amendment, or the cost of the project would have to be spread over multiple years.

High = Would require an increase in revenue via an alternative source (i.e., bonds, grants, fee increases) to implement. Existing funding levels are not adequate to cover the costs of the proposed project.

Potential Funding (FEMA HMA):

- **BRIC** = Building Resilient Infrastructure and Communities
- **FMA** = Flood Mitigation Assistance Grant Program
- **HMGP** = Hazard Mitigation Grant Program
- **HSGP** = Homeland Security Grant Program
- **EMPG** = Emergency Management Performance Grant

Implementation Schedule:

- **Short Term** = 1 to 5 years
- **Long Term** = 5 years or greater
- **DOF** = Depending on Funding

Applies to New and/or Existing Structures:

- **N/A** = Not Applicable