

East Allen Township, Northampton County Annex

Hazard Mitigation Plan Points-of-Contact

Primary:

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Alternate:

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Municipal Profile

East Allen Township is a rural township located in the western portion of Northampton County. It encompasses an area of 14.4 square miles, and has an approximate population of 4,903 (2010 Census). The township is bordered by Moore Township to the north, Allen Township to the west, Hanover Township (Lehigh County) and Hanover Township to the south, Lower Nazareth Township and Upper Nazareth Township to the east, and surround Bath Borough to the north, west, and south in the township's northeast corner.

The Monocacy Creek flows southward through the eastern half of the township from Moore Township in the north, through Bath Borough, back into the township, and south into Hanover Township on its way to the Lehigh River. The Catasauqua Creek flows southwest from the northwest part of the township to the southwest part of the township and into Allen Township. There is also a normally dry streambed that runs from the agricultural fields north and east of East Allen Manor. This tributary feeds the Catasauqua Creek.

PA Route 512 travels north-south in the eastern part of the township, coming north from Hanover Township, passing through Bath Borough, and continuing north into Moore Township. PA Route 987 (Airport Road) comes from the middle of the township's southern border north to PA Route 329 (Nor-Bath Boulevard), where the two routes combine and travel to the northeast to Bath Borough. PA Route 329 ends in Bath, while PA Route 987 continues through the borough, back into the township, and north into Moore Township. Airport Road continues north from the intersection of PA Routes 987 and 329 in the middle of the township until it reaches PA Route 248 (West Main Boulevard) near the township's northern border. PA Route 248 enters the township from Bath Borough's western border and turns northwest, leaving the township at the middle of the township's northern border with Moore Township.

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.

Shawn Leidy, Zoning Officer
Role: Zoning & Permitting

Gary Mathesz, Public Works Director
Role: Public Works

Brent Green, Township Manager
Role: Administration

Christopher Post, Emergency Management Coordinator
Role: Administration

Hanover Engineering, Municipal Engineer
Role: Administration and Support

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.

East Allen relies on the Volunteer Fire and Ambulance companies to provide primary emergency management services. Businesses are primarily informed / notified during the Planning and Permitting phases of their building and occupancy.

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 2013 Hazard Mitigation Plan.

The Township maintains a website, including email notification, issues seasonal newsletters and has incorporated a digital sign for public awareness and information.

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	No
Is floodplain management an auxiliary function?	Community FPA	Yes
Provide an explanation of NFIP administration services (e.g., permit review, GIS, education or outreach, inspections, engineering capability)	Community FPA	Primarily handled by the Zoning Office and municipal engineer during the planning and permitting.
What are the barriers to running an effective NFIP program in the community, if any?	Community FPA	Public awareness and municipal resources.

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

Topic	Identify source of information, if different from the one listed.	Additional Comments
2. Compliance History		
Is the community in good standing with the NFIP?	State NFIP Coordinator, FEMA NFIP Specialist, or community records	Yes
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)?		Unknown
Is a CAV or CAC scheduled or needed?		No
3. Regulation		
When did the community enter the NFIP?	NFIP Community Status Book	Unknown
Are the Flood Insurance Rate Maps (FIRMs) digital or paper? How are residents assisted with mapping?	Community FPA	Both digital and hard copy.
Do floodplain regulations meet or exceed FEMA or State minimum requirements? If so, in what ways?	Community FPA	The local flood plain ordinance was adopted after the most recent update.
Describe the permitting process	Community FPA, State, FEMA NFIP	Zoning Officer reviews and permits.
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	+/- 8/TBD
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	TBD
How many structures are exposed to flood risk within the community?	Community FPA or GIS Analyst	+/- 29
Describe any areas of flood risk with limited NFIP policy coverage	Community FPA or FEMA Insurance Specialist	3.7% land area located in 1% Annual Flood.
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)	
What categories and activities provide CRS points and how can the Class be improved?		
Does the plan include CRS planning requirements?	Community FPA, FEMA CRS Coordinator, or ISO representative	

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.

The Township is primarily rural with the greatest concentration of residential properties along the southerly portion of the township.

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

Other than the businesses along Airport Road and Route 512 corridor, Churches, and Municipal Building, the only areas for visiting populations would be Events at either Bicentennial or Jacksonville Parks.

2. Economy

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

Agriculture is a primary economic concern throughout the Township, with business employment primarily concentrated to the Airport Road and Route 512 corridors.

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.

In addition to Federal Floodplain Mapping, the Township Zoning Ordinance creates the Conservation Zone to provide additional regulations for development along sensitive natural features, including streams, wetlands, steep slopes, rock outcroppings, etc., which are also protected in the other Zoning Districts as well.

Community Assets – *continued*

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.
Approximately 29 structures area located within the 1% annual flood area, with the greatest concentration along the Monocacy Creek.
- Infrastructure systems such as water and wastewater facilities, power utilities, transportation systems, communication systems, energy pipelines and storage.
East Allen Gardens portable water system is located within the 1% annual flood area.
- High potential loss facilities such as, dams, locations that house hazardous materials, military and / or civilian defense installations.
None known
- Critical facilities such as, hospitals, medical facilities, police and fires stations, emergency operations centers, shelters, schools and airports / heliports.
Critical facilities are dispersed along the Route 329 and Route 512 corridors.
- Cultural / historical resources such as, museums, parks, stadiums, etc.
Bicentennial Park is located along a drainage channel in the southeasterly portion of the Township while Jacksonville Park and the Governor Wolfe historic structures are located in and around the Jacksonville area along Jacksonville Road.

Capability Assessment

Capability	✓ Regulatory ✓ Tools ✓ Programs	Status			Department / Agency Responsible	Effect on Hazard Loss Reduction: -Supports -Neutral -Hinders	Change since 2013 Plan? + Positive - Negative	Has the 2013 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	2016		Internal and Hanover Engineering	S				
	Capital Improvement Plan	X			Internal	S				Twp. Manager and Public Works Dir.
	Economic Development Plan									
	Continuity of Operations Plan	X	2012			N				
	Stormwater Management Plan / Ordinance	X	2007		Hanover Engineering	S				Participating in LVPC Update
	Open Space Management Plan (or Parks/Rec., Greenways Plan)	X	2011		Internal	S				Twp. Manager & Recreation Director
	Natural Resource Protection Plan	X	2004		Internal and Hanover Engineering	S				Part of Zoning and SALDO
	Transportation Plan									
	Historic Preservation Plan									
	Floodplain Management Plan	X	2014		External	S				Hanover Engineering & Third Party Zoning Officer
	Farmland Preservation									
	Evacuation Plan	X	2012		Internal	S				
	Disaster Recovery Plan	X	2012		Internal	S				
	Hazard Mitigation Plan	X	10/2018		Internal and Hanover Engineering	S		N/A		Participating in LVPC Update
Emergency Operations Plan	X	2/2012		Internal	S					

Capability Assessment – continued

Capability	✓ Regulatory ✓ Tools ✓ Programs	Status			Department / Agency Responsible	Effect on Hazard Loss Reduction: -Supports -Neutral -Hinders	Change since 2013 Plan? + Positive - Negative	Has the 2013 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	Zoning Regulations	X	2004		Internal and Hanover Engineering	S				Always Updating
	Floodplain Regulations	X	2014		External	S				Hanover Engineering & Third Party Zoning Officer
	NFIP Participation	X	2001		Internal					
	Building Code	X			External	S				Third Party Zoning Officer / BCO
	Fire Code	X			External	S				BCO, VFC & Third Party
	Other	X	2000		Internal and Hanover Engineering	S				SALDO – Always Updating

Capability Assessment – *continued*

Capability	✓ Staff ✓ Personnel ✓ Resources			Department / Agency	Change since 2013 Plan? + Positive - Negative	How can these capabilities be expanded and improved to reduce risk?	Additional Comments
		Yes	No				
2. Administrative & Technology	Planners (with land use / land development knowledge)	X		Internal and Hanover Engineering			Twp. Planning Commission and Hanover Engineering
	Planners or engineers (with natural and / or human-caused hazards knowledge)	X		Hanover Engineering			
	Engineers or professionals trained in building and / or infrastructure construction practices (including building inspectors)	X		Hanover Engineering			
	Emergency Manager	X		Internal			Part Time Twp.
	Floodplain administrator / manager	X		External			Third Party Zoning Officer
	Land surveyors	X		Hanover Engineering			
	Staff familiar with the hazards of the community	X		Internal and Hanover Engineering			
	Personnel skilled in Geographical Information Systems (GIS) and / or FEMA's HAZUS program	X		Hanover Engineering			
	Grant writers or fiscal staff to handle large / complex grants	X		Internal			
	Other						

Capability Assessment – continued

Capability			Department / Agency	Change since 2013 Plan? + Positive - Negative	How can these capabilities be expanded and improved to reduce risk?	Additional Comments
	Yes	No				
3. Financial Resources	Capital improvement programming	X		Internal		Board of Sups., Twp. Manager & Sec. / Treasurer
	Community Development Block Grants (CDBG)	X		Internal		Board of Sups., Twp. Manager & Sec. / Treasurer
	Special purposes taxes	X		Internal		Board of Sups., Twp. Manager & Sec. / Treasurer
	Gas / Electricity utility fees		X			
	Water / Sewer fees		X			
	Stormwater utility fees		X			
	Development impact fees	X		Internal		Board of Sups., Twp. Manager & Sec. / Treasurer
	General obligation, revenue, and / or special tax bonds		X			
	Partnering arrangements or intergovernmental agreements	X		Internal		Board of Sups., Twp. Manager & Sec. / Treasurer
	Other					

Capability Assessment – continued

Capability	✓ Program ✓ Organization			Department / Agency	Change since 2013 Plan? + Positive - Negative	How can these capabilities be expanded and improved to reduce risk?	Additional Comments
		Yes	No				
4. Education & Outreach	Firewise Communities Certification		X				
	StormReady Certification		X				
	Natural disaster or safety-related school programs		X				
	Ongoing public education or information programs such as, responsible water use, fire safety, household preparedness, and environmental education.	X			Enhance website capabilities & changeable message sign at Municipal Building		
	Public-private partnership initiatives addressing disaster related issues.		X				
	Local citizen groups or non-profit organizations focused on environmental protection, emergency preparedness, access and functional needs populations, etc.	X					Volunteer Emergency Services and various committees
	Other						

Capability		Degree of Capability			Change since the 2013 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
Farmhouse Mews	Residential / Commercial		SE Quad of Intersection of Airport Rd. & Hanoverville Rd.	None	N/A
Locust Manor	Residential / Commercial		SW Quad of Intersection of Route 512 & Locust Rd.	None	N/A
Atiyeh Route 512 Pcop	Residential / Commercial		West side of Route 512 south of Steuben Rd. Extension	Contaminated Soils	N/A
Sunny Slope Farm adjacent to Bicentennial	Residential	84	Dogwood Rd., east of Bicentennial Park	Flood	Planning
Hanover Oaks / Valley View	Residential		N. of Hanoverville Rd. partially in Hanover Twp., N.C.	None	Construction
Airport Road Lot 1	Industrial	1	SE Quad of Intersection of Airport Rd. & SR 329	None	Planning

Natural & Non-Natural Event History Specific to East Allen Township

Type of Event and Date(s)	FEMA Disaster # (if applicable)	Local Damage(s) or Loss(es)
Snow Related Winter Event	AJA066	\$32,568 Costs submitted for \$31,393.15 reimbursement
Pennsylvania COVID-19 Pandemic – 1/2020	DR-4506-PA	Emergency Protective measures to combat COVID-19 Pandemic.
Remnants of Hurricane Ida	DR-4618-PA	Assistance to eligible individuals and families affected by this disaster.

2013 Municipal Action Plan Status

Existing Mitigation Action (from 2013 Hazard Mitigation Plan)		Status					Additional Comments
		No Progress / Unknown	In Progress	Continuous	Completed	Discontinued	
1	Township engineering firm is reviewing potential mitigation activities to alleviate flooding in the Bicentennial Park / Shawnee Drive / Munsee Lane / Mohawk Drive / Colony Drive area.		X				Alleviate Flooding in Bicentennial Park and downstream area
2	Monocacy Creek flooding along Route 512 Project raising of the roadway and railroad, replacing the bridges with a higher and longer structures.	X					Monocacy Creek Flooding along Route 512 (roadway/bridge)
3	Conduct Study to determine mitigation activities to alleviate flooding in the area where Monocacy Creek crosses Route 512	X					Study mitigation of Flooding along Route 512
4	Coordinate to determine if shutting off Keystone Cement Company quarry pumps would help alleviate flooding.	X				X	Study effect of Keystone Quarry pumping on local flooding. Action not carried through to 2018 Action Plan.
5	Study to mitigate Sickie Road (unimproved road) Heavy rains cause springs to wash out roadway. Determine actions to prevent or minimize issue.			X			Investigate Sickie Road Drainage
6	Improvements to Snyders Church between Airport Rd. and W. Main Blvd. (Rt. 248). Control water flow from neighbor's property causing road shoulders to wash out, debris clogging pipe under road.		X				Snyder's Church Road Drainage Improvements
7	Stone Post Rd. Culvert (unimproved stone portion of road) — Heavy rains cause road surface to wash away.			X			Stone Post Road Drainage Improvements
8	Robin Lane Culvert (unimproved road) — Heavy rains cause road surface to wash away.	X					Robin Lane Drainage Improvements
9	Improvements PA Route 248, just east of the intersection with Snyders Church. Water washes over roadway. Enlarge pipe.	X					Route 248 East of Snyder's Church Rd Culvert Replacement
10	Improvements on PA Route 248, water comes off farmland, follows swale from Robin Lane to Route 248 (at 6159 W. Main Blvd), then crosses in a pipe and over the roadway as pipe cannot handle volume of water into property at 6150. Enlarge pipe.	X					Route 248 at Robin Lane Drainage Improvements
11	Improvements on PA Route 987, south of Locust Road and north of Jade Lane, storm water comes off farmland and floods over the roadway.	X					Route 987 Drainage Improvements South of Locust Rd
12	Develop a traffic control plan for times when PA Route 512 is closed due to flooding				X		Develop Traffic Control Plan for Route 512 Flooding. Action not carried through to 2018 Action Plan.

2013 Municipal Action Plan Status – continued

Existing Mitigation Action (from 2013 Hazard Mitigation Plan)		Status					Additional Comments
		No Progress / Unknown	In Progress	Continuous	Completed	Discontinued	
13	Complete the implementation of the Storm Ready Program				X		Complete Implementation of the Storm Ready Plan. Action not carried through to 2018 Action Plan.
14	Employ better soil conservation practices to reduce soil erosion and water runoff.			X			Employ soil conservation practices to reduce erosion/runoff
15	Make visitation of every SARA Tier II facility an annual event by the Fire Department.			X			Annual SARA Tier II visits by Fire Company
16	Maintain compliance with and good-standing in the NFIP including adoption and enforcement of floodplain management requirements (e.g. regulating all new and substantially improved construction in Special Hazard Flood Areas), floodplain identification and mapping, and flood insurance outreach to the community.			X			Comply with NFIP adoption and enforcement

Notes:

1. Actions not carried through to the 2018 Action Plan are so noted.
2. To maintain National Flood Insurance Program (NFIP) compliance, actions related to the NFIP were carried through to the 2018 Action Plan even if identified by the municipality as completed.

2018 Mitigation Action Plan

Mitigation Action		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	Township engineering firm is reviewing potential mitigation activities to alleviate flooding in the Bicentennial Park / Shawnee Drive / Munsee Lane / Mohawk Drive / Colony Drive area.	Structure & Infrastructure	Flood	Medium	High	HMA Grants and County grant opportunities; Private sector	Township Engineering, Home Owner	Short-term (depending on funding)	Existing
2	Monocacy Creek flooding along Route 512 Project raising of the roadway and railroad, replacing the bridges with a higher and longer structures.	Structure & Infrastructure	Flood	High	High	HMA Grants, PennDOT Norfolk Southern RR	PennDOT Norfolk Southern RR	Long-term (depending on funding)	Existing
3	Conduct Study to determine mitigation activities to alleviate flooding in the area where Monocacy Creek crosses Route 512	Structure & Infrastructure	Flood	Medium	High	Municipal and Private Sector	Home owners	Short-term (depending on funding)	Existing
4	Study to mitigate Sickie Road (unimproved road) Heavy rains cause springs to wash out roadway. Determine actions to prevent or minimize issue.	Structure & Infrastructure	Flood	Medium	High	Federal, State, County, Municipal and Private Sector	Public Works with oversight by DEP & NCCD	Long-term (depending on funding)	Existing
5	Improvements to Snyders Church between Airport Rd. and W. Main Blvd. (Rt. 248). Control water flow from neighbor's property causing road shoulders to wash out, debris clogging pipe under road.	Structure & Infrastructure	Flood	Medium	High	FEMA, State, County Grant opportunities	Public Works with oversight by DEP & NCCD	Long-term (depending on funding)	Existing
6	Stone Post Rd. Culvert (unimproved stone portion of road) — Heavy rains cause road surface to wash away.	Structure & Infrastructure	Flood	Medium	High	FEMA, State, County Grant opportunities	Public Works with oversight by DEP & NCCD	Long-term (depending on funding)	Existing

2018 Mitigation Action Plan – continued

Mitigation Action		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
7	Robin Lane Culvert (unimproved road) — Heavy rains cause road surface to wash away.	Structure & Infrastructure	Flood	Medium	High	FEMA, State, County Grant opportunities	Public Works with oversight by NCCD	Long-term (depending on funding)	Existing
8	Improvements PA Route 248, just east of the intersection with Snyders Church. Water washes over roadway. Enlarge pipe.	Structure & Infrastructure	Flood	Medium	High	PennDOT	PennDOT	Long-term (depending on funding)	Existing
9	Improvements on PA Route 248, water comes off farmland, follows swale from Robin Lane to Route 248 (at 6159 W. Main Blvd), then crosses in a pipe and over the roadway as pipe cannot handle volume of water into property at 6150. Enlarge pipe.	Structure & Infrastructure	Flood	Medium	High	PennDOT	PennDOT	Long-term (depending on funding)	Existing
10	Improvements on PA Route 987, south of Locust Road and north of Jade Lane, storm water comes off farmland and floods over the roadway.	Structure & Infrastructure	Flood	Medium	High	PennDOT	PennDOT	Long-term (depending on funding)	Existing
11	Employ better soil conservation practices to reduce soil erosion and water runoff.	Structure & Infrastructure	Flood	High	Low	Private	Northampton County Conservation District (NCCD)	Short-term	Existing
12	Make visitation of every SARA Tier II facility an annual event by the Fire Department.	Education & Awareness	All hazards	High	Low	Municipal Budget	East Allen Twp. Fire Dept., possibly LEPC	Short-term	New & Existing

2018 Mitigation Action Plan – continued

Mitigation Action		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
13	Maintain compliance with and good standing in the NFIP including adoption and enforcement of floodplain management requirements (e.g. regulating all new and substantially improved construction in Special Hazard Flood Areas), floodplain identification and mapping, and flood insurance outreach to the community.	Local plans & Regulations	Flood	High	Low - Medium	Municipal Budget	Municipality (via Municipal Engineer/NFIP Floodplain Administrator) with support from PEMA, ISO FEMA	Ongoing	New & Existing
14	Coordinate with the County Emergency Management Agency and PA Department of Health, which is responsible for setting up points of distribution and providers for immunizations.	Local plans & Regulations	Pandemic and Infectious Disease	Medium	Low	Municipal Budget	Municipality, working with County EMA and PA Department of Health	Ongoing	N/A
15	Devise an employee vaccination and immunization plan to prevent an outbreak within the municipal employee ranks.	Local plans & Regulations	Pandemic and Infectious Disease	Medium	Low	Municipal Budget	Municipality	Short-term	N/A
16	Devise a municipal continuity of operations plan to keep essential services running in the event that a significant portion of the workforce is affected.	Local plans & Regulations	Pandemic and Infectious Disease	Medium	Low	Municipal Budget	Municipality	Short-term	N/A
17	Devise a public education and outreach plan regarding disease prevention.	Education & Awareness	Pandemic and Infectious Disease	Medium	Low	Municipal Budget	Municipality	Ongoing	N/A
18	Provide education and outreach to residents regarding how to prevent the spread of invasive species, including quarantine procedures.	Education & Awareness	Invasive Species	High	Low	Municipal Budget	Municipality	Ongoing	N/A

2018 Mitigation Action Plan – continued

Mitigation Action		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
19	Develop a neighborhood cleanup plan designed to remove discarded tires, trash and other items in which standing water can form.	Education & Awareness	Invasive Species	High	Low	Municipal Budget	Municipality	Short-term	N/A
20	Provide training and education for first responders to ensure effective emergency care.	Local plans & Regulations	Drug Overdose Crisis	High	Low	Municipal Budget	Municipality	Ongoing	N/A
21	Provide education and outreach, especially in K-12, regarding drug abuse prevention.	Education & Awareness	Drug Overdose Crisis	High	Low	Municipal Budget	Municipality/ School District	Ongoing	N/A

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