

Action P7.1—IMPROVE PUBLIC INFRASTRUCTURE regarding mitigation of floods and other hazards with specific concentrations on water/sewer infrastructure projects. Some other mitigation efforts include: sewer lining and smoke testing for combined sewer overflow; street reconstruction/drainage; new sidewalk design/construction to include better drainage; elevated tank raising; water main replacements for sustainability; elevated tank painting for better sustainability; sanitary sewer cleaning; utility upgrades/efficiency regarding public street lights; local roads and bridge assessments to ensure sustainability. Basic premise is to increase resilience of infrastructure and critical facilities which also includes the establishment of public rain gardens as well.

Status Description:

Ongoing	Ongoing	Ongoing	All	1, 2, 3, 7, 9, 12	Phoenix	\$10,000,000; High	Some Local Government Resources, Seeking Cook County, State, and Federal Grants	Long-term
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Action P7.2—STRENGTHEN BUILDING AND ZONING CODES – impacts of natural hazards on future land uses; integrate hazard mitigation policies; strengthen land-use planning efforts; reduce natural hazard risk and vulnerability to potentially isolated populations.

Status Description:

Ongoing	Ongoing	Ongoing	All	2, 4, 10, 12	Phoenix	Low	Some Local Government Resources, Cook County	Short-term
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Action P7.3—72-HOUR SELF SUFFICIENCY – increase Phoenix capacity to handle hazards and related crisis within its own government immediately and strengthen intergovernmental agreements and cooperation during and after hazards as well. Specifics increasing local capacity through all phases of emergency management; increase resilience; improve systems that provide early warnings; establish new partnerships and strengthen existing partnerships.

Status Description:

Ongoing	Ongoing	Ongoing	All	1, 2, 5, 8	Phoenix	\$50,000; Medium	Local Government Resources, Cook County, State, and Federal Grants	Short-term
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Action P7.4—ENHANCE TORNADO WARNING PROTOCOL – help minimize disruption of Phoenix government operations; Improve early warning systems and emergency response communications; enhance partnerships regarding warning protocol.

Status Description:

Ongoing	Ongoing	Ongoing	All	1, 5, 8	Phoenix	\$100,000; Medium	Local Government Resources, Cook County, State, and Federal Grants	Short-term
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Action P7.5—PROVIDE SHELTER FACILITIES - working alongside early warning program; established partnerships with other governments and communities; reduce loss of injury/save lives.

Status Description:

Ongoing	Ongoing	Ongoing	All	5, 8, 12	Phoenix, and Township	\$500,000; High	Local Government Resources, Cook County, State, and Federal Grants. Foundation Grants	Long-term
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Action P7.6—DEVELOP EVACUATION PLAN - working alongside early warning program; established partnerships with other governments and communities; reduce loss of injury/save lives.

Status Description:

Ongoing	Ongoing	Ongoing	All	5, 8, 12	Phoenix, and Township	\$100,000; Medium	Local Government Resources, Cook County, State, and Federal Grants. Foundation Grants	Short-term
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Action P7.7—DEVELOP POST-DISASTER RECOVERY PLAN - utilizing resilience of critical facilities; development, improvements, and protection of early warning and post warning systems; utilizing good data; establishment of good partnerships with neighboring communities and other governments; encouragement of natural environment mitigation efforts

Status Description:

Ongoing	Ongoing	Ongoing	All	2, 5, 6, 8, 13	Phoenix and Township	\$100,000; Medium	Local Government Resources, Cook County, State, and Federal Grants. Foundation Grants	Short-term
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Action P7.8—DEVELOP PUBLIC EDUCATION PROGRAMS – Although it would be most helpful to have all planning programs in place prior to outreach and education, its crucial to involve residents and businesses with what keeps them safe. Outreach and education include posting information on Village Website; discussions about private rain gardens; keeping your home safe with proactive measures. Education programs will involve village hazard mitigation policies; early warning systems; utilizing the best data available and technologies to educate public; partnership identifications with other governments, agencies, and communities and where to seek help while in a disaster; education about codes and land use within the area; and encourage residents and businesses as to when and how to mitigate hazards regarding their own properties.

Status Description:

Ongoing	Ongoing	Ongoing	All	4, 5, 6, 8, 10, 11, 13	Phoenix	\$150,000	Local Government Resources, Cook County, State, and Federal Grants, Foundation, and Education Grants	Short-term
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Action P7.9—Where appropriate, support retrofitting, purchase, or relocation of structures in hazard-prone areas to prevent future structure damage. Give priority to properties with exposure to repetitive losses.

Status Description:

Ongoing	Ongoing	Ongoing	All	7, 13	Phoenix	High	FEMA Hazard Mitigation Grants	Long-term (depending on funding)
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Action P7.10—Continue to support the countywide actions identified in this plan.

Status Description:

Ongoing	Ongoing	Ongoing	All	All	Phoenix	Low	General Fund	Short- and Long-term
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Action P7.11—Actively participate in the plan maintenance strategy identified in this plan.

Status Description:

Ongoing	Ongoing	Ongoing	All	3, 4, 6	DHSEM, Phoenix	Low	General Fund	Short-term
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Action P7.12—Consider participation in incentive-based programs such as the Community Rating System, Tree City, and StormReady.

Status Description:

Ongoing	Ongoing	Ongoing	All	3, 4, 5, 6, 7, 9, 10, 11, 13	Phoenix	Low	General Fund	Long-term
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Action P7.13—Maintain good standing under the National Flood Insurance Program by implementing programs that meet or exceed the minimum NFIP requirements. Such programs include enforcing an adopted flood damage prevention ordinance, participating in floodplain mapping updates, and providing public assistance and information on floodplain requirements and impacts.

Status Description:

Ongoing	Ongoing	Ongoing	Flooding	4, 6, 9	Phoenix	Low	General Fund	Short-term and ongoing
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Action P7.14—Where feasible, implement a program to record high water marks following high-water events.

Status Description:

Ongoing	Ongoing	Ongoing	Flooding, Severe Weather	3, 6, 9	Phoenix	Medium	General Fund, FEMA Grant Funds (Public Assistance)	Long-term
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Action P7.15—Integrate the hazard mitigation plan into other plans, programs, or resources that dictate land use or redevelopment.

Status Description:

Ongoing	Ongoing	Ongoing	All	3, 4, 6, 10, 13	Engineering Division, Economic Development, Community Development, Public Affairs, and Public Works Departments	Low	General Fund	Short-term
Action P7.16 —Consider the development and implementation of a Capital Improvements Program (CIP) to increase the Village's regulatory, financial and technical capability to implement mitigation actions.								
Status Description:								
Ongoing	Ongoing	Ongoing	All	1, 2, 7	Public Works	High	CIP component of general fund (if implemented)	Long-term
Action P7.17 —Storm Sewer Assessment								
Status Description:								
Ongoing	Ongoing	New	Flood, Ice Storm	1, 2, 3, 4, 10	DPW	\$150,000; High	No funding available	12-16 mo. post award
Action P7.18 —Flood Hazard Mitigation study								
Status Description:								
New	-	-	Flood	1, 2, 3, 4, 5, 6	Metropolitan Water Reclamation District	0	Grants	2022
(a) Ongoing indicates continuation of an action that is already in place. Short-term indicates implementation within five years. Long-term indicates implementation after five years.								

Mitigation Success Stories: Examples of mitigation success stories include, but are not limited to: received a Grant, completed a major mitigation project, etc.

Received grant funds to repair water valves and sidewalks.

Future Needs: Examples of future needs include, but are not limited to: receiving training to better understand the mitigation grant application process, studies that may be needed to better understand hazards/risks, etc.

Will be pursuing flood mitigation studies and working with MWRD and the Donahue Group to help mitigate flood prone areas.

6.1 Action P7.18

Mitigation Action	Flood Hazard Mitigation study
Year Initiated	2021
Applicable Jurisdiction	Village of Phoenix
Lead Agency/Organization	Metropolitan Water Reclamation District
Supporting Agencies/Organizations	Donohue Group
Applicable Goal	<ul style="list-style-type: none"> • Develop and implement sustainable, cost-effective, and environmentally sound risk-reduction (mitigation) projects. • Protect the lives, health, safety, and property of the citizens of Cook County from the impacts of natural hazards. • Protect public services and critical facilities, including infrastructure, from loss of use during natural hazard events. • Involve stakeholders to enhance the local capacity to mitigate, prepare for, and respond to the impacts of natural hazards. • Develop, promote, and integrate mitigation action plans. • Promote public understanding of and support for hazard mitigation.
Potential Funding Source	Grants
Estimated Cost	0
Benefits (loss avoided)	Avoid losses to residents personal belongings and saved construction costs.
Projected Completion Date	2022
Priority and Level of Importance (Low, Medium, High)	High Priority
Benefit Analysis (Low, Medium, High)	High—Project will provide an immediate reduction of risk exposure for life and property.
Cost Analysis (Low, Medium, High)	Low—The project could be funded under the existing budget. The project is part of or can be part of an ongoing existing program.
Actual Completion Date	-

Recommended Mitigation Action/Implementation Plan and Project Description

Action/Implementation Plan and Project Description:	Project will include rain collection and man hole inspections among other testing.
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Mitigation Action and Project Maintenance

Year	Status	Comments
2019		
2020		
2021	New	
2022		
2023		

Mitigated Hazards

All Hazards	
	Dam/Levee Failure
	Drought
	Earthquake
X	Flood
	Extreme Heat
	Lightning
	Hail
	Fog
	High Wind
	Snow
	Blizzard
	Extreme Cold
	Ice Storms
	Tornado
	Epidemic or pandemic
	Nuclear Power Plant Incident
	Widespread Power Outage
	Coastal Erosion
	Secondary Impacts from Mass Influx of Evacuees
	Hazardous Materials Incident