



9.23 Town of Islip

This section presents the jurisdictional annex for the Town of Islip. It includes resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions that can be implemented prior to a disaster to reduce or eliminate damage to property and people. This annex includes a general overview of the municipality and who in the Town participated in the planning process; an assessment of the Town of Islip’s risk and vulnerability; the different capabilities utilized in the Town; and an action plan that will be implemented to achieve a more resilient community.

9.23.1 Hazard Mitigation Planning Team

The following individuals have been identified as the Town of Islip’s hazard mitigation plan primary and alternate points of contact.

Table 9.23-1. Hazard Mitigation Planning Team

Primary Point of Contact	Alternate Point of Contact
Name/Title: Anne Mendes, Associate Administrator, OEM, Public Safety Address: 401 Main Street Islip, NY 11751 Phone Number: 631-224-5730 Email: amendes@islipny.gov	Name/Title: Bob Iberger, Assistant Town Emergency Preparedness Coordinator, OEM, Public Safety Address: 401 Main Street Islip, NY 11751 Phone Number: 631-224-5730 (2238) Email: biberger@islipny.gov
NFIP Floodplain Administrator	
Name/Title: Ronald Meyer, Commissioner of Planning and Development Address: 655 Main Street, Islip, NY 11751 Phone Number: 631-224-5450 Email: commissioner-pd@islipny.gov	

9.23.2 Municipal Profile

In 1710, the precinct (or district) of Islip was established and in 1720, the first elections were held for the posts of supervisor, constable, collector and two assessors. The Town Clerk’s records of the annual meetings typically began, “At the Annual Meeting of the freeholders of the precinct of Islip ...”. The entry for the first Tuesday of April 1790, marked the first in which Islip was referred to as a “Town.”

Over the course of Islip’s heritage, it has changed from a subsistence farming economy in the early years, to a bustling fishing and tourism area in the 19th and 20th Centuries, to the “bedroom community” of the post World War II years, to its status today as a leader, where industry and community, providing a great place for its more than 300,000 residents to live, work and play.

The Town of Islip is one of ten towns within Suffolk County. Located along the south shore of Long Island (east of Babylon and west of Brookhaven), the Town of Islip is a suburban area that is home to more 98,000 residences. The Town of Islip encompasses approximately 106 square miles of land.

The town is governed by a town supervisor and four council-members. There is also a town clerk and receiver of taxes, both duly elected. All of the elected officials serve staggered four year terms that are up for election in odd years, except when special election is held pursuant to state law.

The town board has jurisdiction over governmental affairs within the town's boundaries, excluding incorporated villages which have their own local government.



According to the U.S. Census, the 2010 population for the Town of Islip was 328,989. The estimated 2017 population was 326,416, a 0.8 percent decrease from the 2010 Census. Data from the 2017 U.S. Census American Community Survey indicate that 6.1 percent of the population is 5 years of age or younger and 12.9 percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

9.23.3 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to understanding a jurisdiction’s overall risk to its hazards of concern. Table 9.23-2 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development. The figures at the end of this annex illustrate the geographically-delineated hazard areas and the location of potential new development, where available. The recent and anticipated development depicted on these figures excludes the Suffolk County wastewater upgrades; refer to Section 4 (County Profile) for additional information on this development.

Table 9.23-2. Recent and Expected Future Development

Type of Development	2014		2015		2016		2017		2018		2019	
Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)												
	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA
Single Family	49	5	74	10	171	19	159	15	177	16	135	12
Multi-Family	*	*	*	*	*	*	*	*	*	*	21	0
Other (commercial, mixed-use, etc.)	33	1	28	1	29	0	37	0	36	0	30	0
Total Permits Issued	82	6	102	11	200	19	196	15	213	16	186	12
Property or Development Name	Type of Development		# of Units / Structures		Location (address and/or block and lot)		Known Hazard Zone(s)*		Description / Status of Development			
Recent Major Development and Infrastructure from 2015 to Present												
None identified												
Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years												
Heartland Town Square	Mixed Use		240 units		0 Sagtikos Parkway, 71-1-10.5		None identified		Town awaiting initial site plan submission.			
Redevelopment of Touro Bay Shore	Mixed Use		449 units		1700 Union Boulevard		NEHRP Class D, SLOSH categories 3 & 4, Moderate coastal risk hazard area		Pending approval from the Town of Islip			
Southside Hospital	Commercial		214,000 sqft addition; 5 story parking garage		301 E Main Street, Bay Shore; 394.00-01.00-008.004 & 368.00-02.00-050.005		NEHRP Class D, Sea level rise 4 ft, SLOSH categories 2-4, Moderate and high coastal risk hazard areas. SLOSH Zone 2		Parking garage under construction; awaiting site plan submission for hospital addition. This property should be included in the FEMA Floodplain/SLOSH evacuation.			



NYIT Campus	Residential	366 units	0 Carleton Avenue, Central Islip; 0500-187.10-01.00-004.000	Not in a SLOSH Zone	Awaiting Change of Zone application. Do not include this property in the FEMA Floodplain/SLOSH evacuation.
Good Samaritan Hospital	Commercial	~333,000 sf addition	1000 Montauk Highway, West Islip; 0500-474.00-02.00-048002	.2% and 1% Flood Zone, NEHRP Class D, Sea level rise 1-4ft, SLOSH categories 1-4, Moderate, high, and extreme coastal risk hazard areas SLOSH Zone 2	Awaiting Change of Zone Application. Applicant required to provide additional documentation. as a prerequisite to the change of zone public hearing. This property should be included in the FEMA Floodplain/SLOSH evacuation.
Amazon Distribution Center	Warehouse	Reuse existing structures	717 Broadway Ave., Holbrook; 217.00-02.00-008.002	NEHRP Class D	Amazon has chosen a site in Oyster Bay; this site may be too small for their use.
Islip Pines (Serota)	Mixed Use	Unknown	0500-217.00-02.00-003.002, 009.005,218.00-01.00-001.011, 002.005,002.006, 003.003,003.004, 004.019, 005.000,006.000, 239.00-01.00-006.001,007.000, 017.002, 017.005,017.006, 017.007	NEHRP Class D, Wildfire intermix Not in SLOSH zone.	Awaiting site plan submission, property is anticipated to be developed as an industrial park Do not include this property in the FEMA Floodplain/SLOSH evacuation.
Ronkonkoma Hub Extension	Mixed Use	New Structure	Southside of Ronkonkoma Train Station	Not in SLOSH Zone	Awaiting Change of Zone Application. Do not include this property in the FEMA Floodplain/SLOSH evacuation.
Grammercy Bay	Mixed Use	88	22 Oak Street, Bay Shore	SLOSH Zone 4	Do not include this property in the FEMA Floodplain/SLOSH evacuation.
Bay Park	Mixed Use	74	34 Park Ave, Bay Shore	SLOSH Zone 2	Do not include this property in the FEMA Floodplain/SLOSH evacuation.
North District Lofts	Mixed	90	65 Park Ave, Bay Shore	SLOSH Zone 3	Do not include this property in the FEMA Floodplain/SLOSH evacuation.
Gull Haven	Residential	292	Carleton Ave & Sunburst Dr. Central Islip	No SLOSH Zone	Do not include this property in the FEMA Floodplain/SLOSH evacuation.
Westbrook	Residential/Assisted Living Facility	360 Residential 110 Bed Assisted Living Facility	5300 Westbrook Blvd, E. Islip	SLOSH Zone 4	Do not include this property in the FEMA Floodplain/SLOSH evacuation.

SFHA Special Flood Hazard Area (1% flood event)

Only location-specific hazard zones or vulnerabilities identified.

Up until 2019, multifamily had the same permit classification as commercial.

This list includes new residential and commercial structures only, no renovations or accessory buildings.





9.23.4 Capability Assessment

The Town of Islip performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Section 5 (Capability Assessment) describes the components included in the capability assessment and their significance for hazard mitigation planning. This section summarizes the following findings of the assessment:

- An assessment of legal and regulatory capabilities.
- Development and permitting capabilities.
- An assessment of fiscal capabilities.
- An assessment of education and outreach capabilities.
- Information on National Flood Insurance Program (NFIP) compliance.
- Classification under various community mitigation programs.
- The community’s adaptive capacity for the impacts of climate change.

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of this planning effort, planning/policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress in plan integration. Areas with current mitigation integration are summarized in Capability Assessment (Section 9.23.4). The Town of Islip identified specific integration activities that will be incorporated into municipal procedures are included in the updated mitigation strategy. Appendix G provides the results of the planning/policy document review and the answers to integration survey questions.

Planning, Legal, and Regulatory Capability

The table below summarizes the regulatory tools that are available to the Town of Islip and where hazard mitigation has been integrated.

Table 9.23-3. Planning, Legal, and Regulatory Capability

	Do you have this? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Department / Agency Responsible	State Mandated	Has this been integrated?	
						Yes	If no - can it be a mitigation action?
Codes, Ordinances, & Requirements							
Building Code	Yes	Town of Islip, Article I, 9-15-70, as Local Law No. 1, 1970	Local	Building Division	Yes	Yes	-
Comment:							
Zoning Code	Yes	Zoning, Town of Islip, Chapter 68	Local	Zoning Board	No	Yes	-
Comment: For the purposes of promoting the health, safety, morals and the general welfare of the community of the Town of Islip, and in accordance with a comprehensive plan, this ordinance is designed to lessen congestion in the streets, to secure safety from fire, flood, panic and other dangers; to promote health and general welfare; to provide adequate light and air; to prevent the overcrowding of land; to avoid undue concentration of population; to facilitate the adequate provision of transportation, water, sewerage, schools, parks and other public requirements.							
Subdivisions	Yes	Town of Islip, Chapter 47B	Local	Planning Board	No	Yes	-
Comment: The Town Board of the Town of Islip deems it necessary and proper to regulate the building development of private lands in the Town of Islip for the protection, good order, proper conduct, safety, health and well-being of both the persons and property within the Town of Islip.							
Stormwater	Yes	Stormwater	Local	Town Engineer	Yes	Yes	-



	Do you have this? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Department / Agency Responsible	State Mandated	Has this been integrated?	
						If no - can it be a mitigation action?	
Management		Management and Erosion and Sediment Control, Town of Islip, Chapter 47					
Comment: The purpose of the ordinance is: A. Meet the requirements of minimum measures 4 and 5 of the SPDES General Permit for Stormwater Discharges from Municipal Separate Storm Sewer Systems (MS4s), Permit No. GP-02-02, or as amended or revised; B. Require land development activities to conform to the substantive requirements of the NYS Department of Environmental Conservation State Pollutant Discharge Elimination System (SPDES) General Permit for Construction Activities GP-02-01, or as amended or revised; C. Minimize increases in stormwater runoff from land development activities in order to reduce flooding, siltation, increases in stream temperature, and streambank erosion and maintain the integrity of stream channels; D. Minimize increases in pollution caused by stormwater runoff from land development activities which would otherwise degrade local water quality; E. Minimize the total annual volume of stormwater runoff which flows from any specific site during and following development to the maximum extent practicable; and F. Reduce stormwater runoff rates and volumes, soil erosion and nonpoint source pollution, wherever possible, through stormwater management practices and to ensure that these management practices are properly maintained and eliminate threats to public safety.							
Post-Disaster Recovery	No	-	-	-	No	-	-
Comment:							
Real Estate Disclosure	Yes	Property Condition Disclosure Act, NY Code - Article 14 §460-467	State	NYS Department of State, Real Estate Agent	Yes	No	-
Comment:							
Growth Management	No	-	-	-	No	-	-
Comment:							
Site Plan Review	Yes	Town of Islip, Local Law No. 1 Chapter 68, amended 4-5-05	Local	Town Engineer	No	Yes	-
Comment:							
Environmental Protection	Yes	Environmental Quality Review, Town of Islip, Chapter 13B	Local	Environmental Council	Yes	Yes	-
Comment: The purpose of this local law is to implement for the Town of Islip the State Environmental Quality Review Act and the rules and regulations promulgated thereunder. Therefore, the rules and regulations set forth in Part 617 of Title 6 of the New York Codes Rules and Regulations, as amended, will govern the environmental review of all actions, as that term is defined in Part 617 of Title 6 of NYCRR, that are undertaken, funded or approved by the Town of Islip.							
Flood Damage Prevention	Yes	Flood Damage Prevention, Chapter 68 Article XL	Local	Commissioner of Planning and Development	Yes - BFE+2 feet for all construction in the SFHA (residential and non-residential)	Yes	-



	Do you have this? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Department / Agency Responsible	State Mandated	Has this been integrated?	
						Yes	No
<p>Comment: It is the purpose of this local law to promote the public health, safety and general welfare and to minimize public and private losses due to flood conditions in specific areas by provisions designed to:</p> <ul style="list-style-type: none"> Regulate uses which are dangerous to health, safety and property due to water or erosion hazards or which result in damaging increases in erosion or in flood heights or velocities. Require that uses vulnerable to floods, including facilities which serve such uses, be protected against flood damage at the time of initial construction. Control the alteration of natural floodplains, stream channels and natural protective barriers which are involved in the accommodation of floodwaters. Control filling, grading, dredging and other development which may increase erosion or flood damages. Regulate the construction of flood barriers which will unnaturally divert floodwaters or which may increase flood hazards to other lands. Qualify for and maintain participation in the National Flood Insurance Program. 							
Municipal Separate Storm Sewer System (MS4)	Yes	Illicit Discharges, Activities and Connection to Storm Sewer, Town of Islip Chapter 43 Article I	Local	Stormwater Management Officer	Yes	Yes	-
<p>Comment: The purpose of this article is to provide for the health, safety, and general welfare of the citizens of the Town of Islip through the regulation of nonstormwater discharges to the municipal separate storm sewer system (MS4) to the maximum extent practicable as required by federal and state law. This article establishes methods for controlling the introduction of pollutants into the MS4 in order to comply with requirements of the SPDES general permit for municipal separate storm sewer systems. The objectives of this article are:</p> <ul style="list-style-type: none"> To meet the requirements of the SPDES general permit for stormwater discharges from MS4s, Permit No. GP-02-02, or as amended or revised; To regulate the contribution of pollutants to the MS4 since such systems are not designed to accept, process or discharge nonstormwater wastes; To prohibit illicit connections, activities and discharges to the MS4; To establish legal authority to carry out all inspection, surveillance and monitoring procedures necessary to ensure compliance with this article; and To promote public awareness of the hazards involved in the improper discharge of trash, yard waste, lawn chemicals, pet waste, wastewater, grease, oil, petroleum products, cleaning products, paint products, hazardous waste, sediment and other pollutants into the MS4. 							
Emergency Management	Yes	Government: Continuity, Town of Islip, Chapter 23	Local	Duly authorized deputy and emergency interim successor	Yes	Yes	-
<p>Comment: This local law is adopted so that on such occasions the government of the Town of Islip, New York, may continue to function properly and efficiently under emergency circumstances.</p>							
Climate Change	No	-	-	-	Yes	-	-
<p>Comment:</p>							
Disaster Recovery Ordinance	Yes	Government: Continuity, Town of Islip, Chapter 23	Local	Duly authorized deputy and emergency interim successor	No	Yes	-
<p>Comment: This local law is adopted so that on such occasions the government of the Town of Islip, New York, may continue to function properly and efficiently under emergency circumstances.</p>							
Disaster Reconstruction Ordinance	No	-	-	-	No	-	-
<p>Comment:</p>							
Water Quality	Yes	Town of Islip, Chapter 66	Local	Director of the Town of Islip Building Division and the Commissioner of the Department of Environmental Control	No	Yes	-
<p>Comment: The purpose of the ordinance is: A. Construction standards and inspection procedures for the storage of liquids which present a hazard to the Town's waterways or</p>							



	Do you have this? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Department / Agency Responsible	State Mandated	Has this been integrated?	
						Yes	If no - can it be a mitigation action?
<p>aquifer system. B. The inventory of all existing storage systems containing such liquids by size, composition, age and content. C. Regular testing of existing liquid storage systems. D. Replacement of liquid storage systems when their continued use or presence endangers the health and safety of the public or the Town's natural resources. E. Retrieval of expenses incurred by the Town of Islip in achieving compliance when the owner of the property containing a hazardous system fails to comply with the provisions of this local law.</p>							
Trees	Yes	Town of Islip, Chapter 57	Local	Village Board	No	Yes	-
<p>Comment: The purpose of this local law is to assist in enforcing, policing and prosecuting wanton and indiscriminate theft, cutting and damage of trees from private and public property in the Town of Islip, which deprives individuals and others of their rightful property.</p>							
Nature Preserve Trust	Yes	Town of Islip, Chapter 13	Local	Nature Preserve Trust	No	Yes	-
<p>Comment: In order to manage, protect and preserve unique areas within the Town of Islip, the Town shall establish Nature Preserve Trust areas, whereby land once dedicated may not be taken or otherwise disposed of nor used for any purpose not specified in the dedicating resolution.</p>							
Wetlands and Watercourses	Yes	Town of Islip, Chapter 68	Local	Department of Planning and Development	No	Yes	-
<p>Comment: It is the intent of the Town Board to protect the citizens of the Town of Islip by providing for the protection, preservation, proper maintenance and use of its watercourses, coastal wetlands and tidal marshes in order to minimize their disturbance; prevent damage from erosion, turbidity or siltation, salt water intrusion, loss of fish, shellfish or other beneficial marine organisms, aquatic wildlife and vegetation and the destruction of the natural habitat thereof, the danger of flood and storm tide damage and pollution; to otherwise protect the quality of watercourses, coastal wetlands, tidal waters, marshes, shorelines, watersheds and water recharge areas, underground water reserves, beaches and natural drainage systems for their conservation, economic, aesthetic, recreational and other public uses and values; and further to protect the Town's potable fresh water supplies from the dangers of drought, overdraft, pollution and misuse or mismanagement. Therefore, the Town Board declares that regulation of the watercourses, coastal wetlands and tidal marshes of Islip Town is essential to the health, safety, economic and general welfare of the people of Islip Town, and for their interest.</p>							
Planning Documents							
Comprehensive Plan	Yes	Town of Islip, Chapter 39A, adopted 2-6-1990 as Local Law No.1-1990	Local	Planning	No	Yes	-
<p>Comment:</p>							
Capital Improvement Plan	Yes	Capital Improvement Plan	Local	Planning/DPW	No	Yes	-
<p>Comment: The Town completes annual and 5 year plans.</p>							
Disaster Debris Management Plan	Yes	Suffolk County Multi-Jurisdictional Debris Management Plan	County, Local	Suffolk County FRES	No	Yes	-
<p>Comment: This NYS and FEMA approved comprehensive Multi-Jurisdictional Debris Management Plan was developed through the cooperative efforts of Suffolk County and each of the ten (10) Towns, working together in conjunction with partners from private, state and federal agencies.</p>							
Floodplain or Watershed Plan	No	-	-	-	No	-	-
<p>Comment:</p>							
Stormwater Plan	Yes	Town of Islip, Local Law Chapter 43A,0814 adopted 2-26-2008 as Local Law 4-2008 and Local Law	Local	Planning/Engineering	No	Yes	-



	Do you have this? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Department / Agency Responsible	State Mandated	Has this been integrated?	
						If no - can it be a mitigation action?	
		Chapter 47 adopted 11.27.2007 as Local Law 6-2007.					
Comment:							
Open Space Plan	No	-	County	SC Dept. of Economic Development and Planning	No	-	-
Comment:							
Urban Water Management Plan	No	-	-	-	No	-	-
Comment:							
Habitat Conservation Plan	No	-	-	-	No	-	-
Comment:							
Economic Development Plan	Yes	Town of Islip, Chapter 39A-4 amended 1-15-13 as Local Law No. 4-2013	Local	Economic Development	No	Yes	-
Comment:							
Shoreline Management Plan	Yes	Town of Islip Code Chapters 67 & 68	Local	Planning/Engineering	Yes	-	-
Comment:							
Community Wildfire Protection Plan	No	-	-	-	No	-	-
Comment:							
Forest Management Plan	No	-	-	-	No	-	-
Comment:							
Transportation Plan	No	-	-	-	No	-	-
Comment:							
Agriculture Plan	No	-	-County	-	Yes	-	-
Comment:							
Other (this could include a climate action plan, tourism plan, business development plan, etc.)	Yes	Foreign Trade Zone	Local	Foreign Trade Zone	No	No	-



	Do you have this? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Department / Agency Responsible	State Mandated	Has this been integrated?	
						If no - can it be a mitigation action?	
Comment:							
Response/Recovery Planning							
Comprehensive Emergency Management Plan	Yes	Suffolk County Comprehensive Emergency Management Plan (2018)	Suffolk County and Associated Jurisdictions	Suffolk FRES	Yes	Yes	-
Comment: The County Comprehensive Emergency Management Plan (CEMP) describes the emergency obligations of County government and its capability and capacity to undertake emergency assignments or acquire those resources necessary to support its emergency mission. The Concept of Operations of the CEMP describes the management of emergencies within the National Incident Management System (NIMS) and details emergency management programmatic efforts to accommodate present standards.							
Strategic Recovery Planning Report	No	-	-	-	No	-	-
Comment:							
Threat & Hazard Identification & Risk Assessment (THIRA)	Yes	-	- Suffolk County and Associated Jurisdictions	-	Yes	-	-
Comment:							
Post-Disaster Recovery Plan	No	-	-	-	No	-	-
Comment:							
Continuity of Operations Plan	No	-	-	-	No	-	-
Comment: Contained in Chapter 23 Government: Continuity of the Town Code							
Public Health Plan	No	-	-	-	No	-	-
Comment:							
Other	No	-	-	-	No	-	-
Comment:							

Table 9.23-4. Development and Permitting Capability

Indicate if your jurisdiction implements the following	Response Yes/No; Provide further detail
Development Permits. If yes, what department?	Yes – Planning Department
Permits are tracked by hazard area. For example, floodplain development permits.	Yes – Planning Board Require elevational certificates
Buildable land inventory If yes, please describe If no, please quantitatively describe the level of buildout in the jurisdiction.	Yes – GIS/Planning Department

Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Town of Islip.



Table 9.23-5. Administrative and Technical Capabilities

Resources	Available? (Yes or No)	Department/ Agency/Position
Administrative Capability		
Planning Board	Yes	Planning Department
Mitigation Planning Committee	Yes	Planning/Engineering , DPW
Environmental Board/Commission	No	Use NYSDEC
Open Space Board/Committee	No	-
Economic Development Commission/Committee	Yes	Economic Development Division and Industrial Development Agency
Warning Systems / Services (reverse 911, outdoor warning signals)	Yes	E-Alert mass email system
Maintenance programs to reduce risk	Yes	DPW and Parks Department
Mutual aid agreements	No	Not in writing
Technical/Staffing Capability		
Planners or engineers with knowledge of land development and land management practices	Yes	Planning – 2 PEs and site plan reviews
Engineers or professionals trained in building or infrastructure construction practices	Yes	Building - 5 staff members; DEC - 1 Engineer Building - 12 inspectors.
Planners or engineers with an understanding of natural hazards	Yes	Engineering-3; Building – 2; Planning 2 members.
Staff with expertise or training in benefit/cost analysis	No	-
Professionals trained in conducting damage assessments	Yes	Building Department
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	Yes	Planning- 2 GIS tech.
Scientist familiar with natural hazards	No	-
NFIP Floodplain Administrator (FPA)	Yes	Planning Commissioner
Surveyor(s)	Yes	Engineering-licensed
Emergency Manager	Yes	Department of Public Safety Enforcement Commissioner
Grant writer(s)	Yes	Planning ; DPW ; Parks.
Resilience Officer	No	-
Other (this could include stormwater engineer, environmental specialist, etc.)	No	-

Fiscal Capability

The table below summarizes financial resources available to the Town of Islip.

Table 9.23-6. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	Yes
Capital improvements project funding	Yes
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas or electric service	No
Impact fees for homebuyers or developers of new development/homes	Yes



Financial Resources	Accessible or Eligible to Use (Yes/No)
Stormwater utility fee	No
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	No
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other federal or state Funding Programs	NY Rising
Open Space Acquisition funding programs	No – handled by the State
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	Mitigation Grant Programs (Yes) Public Assistance upon Presidential Declaration.

Education and Outreach Capability

The table below summarizes the education and outreach resources available to the Town of Islip.

Table 9.23-7. Education and Outreach Capabilities

Indicate if your jurisdiction has the following resources	Yes/No; Please describe
Public information officer or communications office?	Yes- Office of Communications and Media Relations in the Supervisor’s Office
Personnel skilled or trained in website development?	Yes – IT and Office of Communications and Media Relations
Hazard mitigation information available on your website; if yes, describe	Yes – Post SLOSH maps
Social media for hazard mitigation education and outreach; if yes, briefly describe.	Yes – Facebook, Twitter
Citizen boards or commissions that address issues related to hazard mitigation; if yes, briefly describe.	No
Other programs already in place that could be used to communicate hazard-related information; if yes, briefly describe.	E-Alert; Worked with County on Code Red
Warning systems for hazard events; if yes, briefly describe.	E-Alert; Worked with County on Code Red
Natural disaster/safety programs in place for schools; if yes, briefly describe.	County – Learning for Life
Other	Storm Awareness Tabletops

Community Classifications

The table below summarizes classifications for community programs available to the Town of Islip.

Table 9.23-8. Community Classifications

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	NP	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	NP	-	-
Public Protection (ISO Fire Protection Classes 1 to 10)	NP	-	-
NYSDEC Climate Smart Community	Yes	N/A	N/A
Storm Ready Certification	NP	-	-
Firewise Communities classification	NP	-	-





Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Other	No	-	-

Note:

- N/A Not applicable
- NP Not participating
- Unavailable

Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). In other words, it describes a jurisdiction’s current ability to adjust to, protect from, or withstand a hazard event. This term is often discussed in reference to climate change; however, adaptive capacity also includes an understanding of local capacity for adapting to current and future risks and changing conditions. The table below summarizes the adaptive capacity for each hazard and the jurisdiction’s rating.

Table 9.23-9. Adaptive Capacity

Hazard	Adaptive Capacity (Capabilities) - High/Medium/Low*
Coastal Erosion	Medium
Cyber Security	Medium
Disease Outbreak	Medium
Drought	Medium
Earthquake	Medium
Expansive Soils	Low
Extreme Temperature	Medium
Flood	Medium
Groundwater Contamination	Medium
Hurricane	Medium
Infestation and Invasive Species	Low
Nor’Easter	Medium
Severe Storm	Medium
Severe Winter Storm	Medium
Shallow Groundwater	Medium
Wildfire	Medium

- *High Capacity exists and is in use
- Medium Capacity may exist; but is not used or could use some improvement
- Low Capacity does not exist or could use substantial improvement
- Unsure Not enough information is known to assign a rating

The Town of Islip has access to resources to determine the possible impacts of climate change upon the municipality and is supportive of climate change integration in Town policies and actions. The Town is in the process of a road raising process along Shore Drive (GOSR funded). The Town has an annual table top exercise which involves the National Weather Services where updated forecasting and education is discussed. The Town has access to local tide gauges. The Parks Department asks consultants working on projects to take into account future conditions. The CEHA line and Erosion Control Districts (tax district to fund sand replacement and shoreline stabilization) also relate to preparing for climate change related impacts.

9.23.5 National Flood Insurance Program

This section provides specific information on the management and regulation of the regulatory floodplain.



NFIP Floodplain Administrator (FPA)

Ronald Meyer Commissioner of Planning and Development

National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Town of Islip.

Table 9.23-10. NFIP Summary

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties
Town of Islip	5,445	5,419	\$207,937,329	564

Source: FEMA 2020

Notes: According to FEMA statistics as of 7/13/2020

RL Repetitive Loss

Flood Vulnerability Summary

The Town of Islip maintains a list of properties that have been damaged by flooding. The Town has worked with property owners interested in flood mitigation.

Hurricane Sandy damaged over 14,000 homes in the inundation areas of Islip. Homes damaged were categorized red (unable to be occupied), yellow (damaged severely, possibly substantially, but occupied), and green (damaged but not severe enough to be out of home). 12 structures were categorized as red, 1,200 structures were categorized yellow, and 12,788 were categorized green. In the 3 days following Hurricane Sandy, all home assessments were completed using the ATC 45. Islip then provided this information to FEMA to receive a better assessment.

After Hurricane Sandy, the Town received approximately 248 applications for house raising. Of that number, 164 have been finalized; 9 cancelled; 231 have been permitted. Funding for mitigation comes from a variety of sources including NFIP, ICC, NY Rising, and NYSERDA.

As defined in the 2017 Uniform Code Supplement, Substantial Damage determinations are made using 50% of the market value of the structure prior to the storm event. Since 2014, there have been minimal substantial damage determinations.

The Town feels that flood hazard maps adequately address flood risk, in addition to SLOSH maps for surge inundation.

Resources

The Planning and Development Department is responsible for floodplain management. Currently, there are no certified floodplain managers on Town staff. NFIP administration services include maintaining floodplain GIS data, review permits, inspecting properties, requiring foundation certifications, and ensuring any substantial improvement/damage and development must adhere to design flood elevation. Substantial improvements are determined as defined in the 2017 Uniform Code Supplement – 50% market value of the structure (prior to improvement).

Additional training in the form of webinars and local conferences/seminars would support the Town’s floodplain management program. Currently, funding, space, and staffing present barriers to running an effective NFIP program.



Compliance History

Town of Islip joined the NFIP on November 17, 1972, and is currently an active member of the NFIP. The current effective Flood Insurance Rate Maps are dated September 25, 2009. The Town's most recent Community Assistance Visit took place on October 18, 2017.

The community is currently in good standing in the NFIP but has one outstanding compliance issue currently being addressed. Previous compliance issues that have been resolved included completing work without permits.

NYS DEC met with Planning in 2018 to discuss the Town's floodplain management program.

Regulatory

The community's Flood Damage Prevention Ordinance (FDPO) was last updated on September 15, 2009 and is found at Chapter 68, Article XL of the local code.

Islip meets FEMA and New York State minimum floodplain requirements. The Town's site plan and plot plan review (grading and drainage) also support floodplain management. The Planning Board and ZBA also consider efforts to reduce flood risk.

Community Rating System

The Town of Islip does not participate in the Community Rating System and is not interested in joining at this time due to funding and resources limitations.

9.23.6 Integration with Other Planning Initiatives

As this HMP update is implemented, the Town of Islip will use information from the plan as the best available science and data for natural hazards. The capability assessment presented in this annex identifies codes, plans, and programs that provide opportunities for integration. The Suffolk County and local action plans developed for this HMP update actions related to plan integration, as well as progress on these actions, will be reported through the progress reporting process described in Volume I. New opportunities for integration also will be identified as part of the annual progress report.

Existing Integration

It is the intention of this municipality to incorporate hazard mitigation planning and natural hazard risk reduction as an integral component of ongoing municipal operations. The following textual summary and table identify relevant planning mechanisms and programs that have been/will be incorporated into municipal procedures, which may include former mitigation initiatives that have become continuous/on-going programs and may be considered mitigation "capabilities":

- **Department of Environmental Control:** Through its various divisions, the Department of Environmental Control manages the Town's solid waste stream, environmental protection, bay management programs, garbage recycling and yard waste collections, as well as animal control programs. The Department of Environmental Control is responsible for the management of:
 - Animal Control
 - Permitting
 - Shellfish Culture Facility
 - Bay Bottom Licensing
 - Environmental Sustainability



- **Long Island MacArthur Airport:** The Town of Islip owns and operates MacArthur Airport (ISP), located in Ronkonkoma, 50 miles outside New York City. More than 5,000 people fly MacArthur Airport each day, making it one of the top 110 airports in the United States. MacArthur Airport is a public airport located on Long Island, in Ronkonkoma, Town of Islip, Suffolk County, New York, United States. It is approximately one mile south of the Ronkonkoma Branch of the Long Island Railroad and has a dedicated shuttle to connect the airport to the rail line. MacArthur Airport covers an area of 1,311 acres (531 ha) containing 3 runways and two helipads. The Town owns and operates the airport, which serves approximately 1.6 million commercial passengers a year, as well as a thriving general aviation sector. The Department of Aviation is led by the Commissioner of Aviation and Transportation, who works closely with the Town Board to manage and steward the airport. Departments include Airport Operations, Custodial, Law Enforcement and Maintenance.
- **Department of Public Safety Enforcement:** The Department of Public Safety Enforcement encompasses the Divisions of Public Safety, Code Enforcement, Fire Prevention, Hazardous Materials Response Team, Office of Emergency Management, Parking Violations Bureau and Harbor Patrol. The Department helps ensure the protection, safety and security of Town-owned facilities including parks, marinas and municipal properties. Additionally, Public Safety Enforcement maintains a 24-hour/7 day a week communication center which serves as a vital link in transmitting critical information and messaging to Town Peace Officers, Fire Prevention and hazardous materials response personnel.
 - *Division of Code Enforcement:* The Division of Code Enforcement is responsible for the investigation and enforcement of New York State Uniform Fire Prevention and Building Code and Town of Islip Code violations which occur at residential properties such as single family and two family dwellings and vacant lots.
 - *Division of Fire Prevention:* The Division of Fire Prevention investigates violations of Islip Town Codes and enforces the Fire Codes of the State of New York. This may include, but is not limited to issuances of Hazardous Storage Permits, Public Assembly, Fireworks and Tent Permits. This office also responds and works with local Fire Departments, Islip Town Hazmat, and local Law Enforcement.
 - *Office of Emergency Management:* The Emergency Management Office maintains and continually updates a comprehensive disaster plan which ensures the safeguarding of all Islip residents during natural and man-made disasters. This unit also stays in constant communication with other local, state and federal emergency management agencies.
- **Department of Public Works:** The Department of Public Works, is responsible for a variety of services, including the maintenance of over 1,200 miles of roadway, maintaining 58 Town building and facilities, maintenance of Town owned sumps, and removal and maintenance of trees located in the Town right-of-way.
 - **Highway Division:** The principal responsibilities of the Highway Division are road maintenance and repair, snow, ice and flood control, as well as the operation of public parking lots. Maintenance of town roadways includes the repair of pot holes, crack filling and seal coating of pavement, shoulder maintenance and vegetation control, litter pickup, roadway sweeping and drainage. This division also operates two state of the art Brine making facilities for pre-treating roads prior to snow events.



- Traffic Safety Division: This division oversees the maintenance and repair of traffic control signs, parking signs, pavement markings, street name signs, street lights and traffic signals, on Town and County roads within the Town of Islip. This division also oversees all traffic studies and makes recommendations as needed to ensure the safety of pedestrian and vehicular traffic.
- Fleet Services: This division oversees the repair and maintenance of all town owned vehicles including heavy vehicles, in both the central vehicle repair facility in East Islip, and the heavy vehicle repair facility in Bay Shore. In addition, the Fleet Services Division oversees and monitors the GPS units that are installed in all Town owned vehicles and snow contractors vehicles
- Facilities Maintenance Division: This division is responsible for the building maintenance of 58 town owned facilities as well as the town custodial division. Some of the Town facilities this division is responsible for include Town Hall, Town Hall West, Brentwood Recreation Center, Brentwood Senior Center, Brookwood Hall, Central Islip Recreation Center, West Islip Recreation Center and Ronkonkoma Recreation Center.
- **Department of Planning and Development:** The Town of Islip Department of Planning and Development is responsible for enhancing the quality of life for its residents and creating an environment that allows businesses to grow through comprehensive planning that balances social, economic and environmental goals. The Department of Planning and Development consists of five divisions – Planning, Building, Engineering and Contracts, Economic Development and Zoning Board of Appeals. In order to accomplish its mission, the Department focuses on the following:
 - *Planning Division:* The Division of Planning administers the permit processing which requires approval from the Planning Board, Zoning Board of Appeals, and/or Town Board. Long term, this Division maintains the Town Comprehensive Plan, periodically updating demographics and development trends. Planning studies, such as the current Local Waterfront Revitalization Study, provide information to the Town Board that allows this Division to update or amend the Comprehensive Plan. This Division also manages and updates the Town Geographic Information System (GIS), used by departments throughout the Town.
 - *Building Division:* The Division of Building administers the processing of applications which require review for compliance with the State Building and Fire Codes. They also check applications for compliance with our Town Zoning Ordinance and Subdivision and Land Development Regulations, and refers applications to the Planning Division or Zoning Board of Appeals where necessary.

The Division of Building also administers the processing of applications which require review for compliance with the State Building and Fire Codes. They also check applications for compliance with our Town Zoning Ordinance and Subdivision and Land Development Regulations, and refer applications to the Planning Division or Zoning Board of Appeals where necessary.
 - *Economic Development Division:* The Town of Islip Office of Economic Development assists companies in identifying sites for relocation or expansion, in fast tracking all necessary permits, and in accessing the many Federal, State and local economic programs available to help grow your business.



- *Zoning Board of Appeals*: The Zoning Board of Appeals processes:
 - Variance applications - arising from building permit denials
 - Accessory Apartment applications
 - Two Family - Family Use Only applications ("Mother Daughter" applications)
 - Special Exceptions - Permits for various uses specified in the Zoning Ordinance
- **Department of Environmental Control (DEC)**: DEC was created by the Town Board with Town Code section 10A-1 in order to oversee the preservation and improvement of the quality of life of the natural and manmade environment within the Town of Islip.
 - DEC advises on all matters affecting the preservation, development and use of the conditions of the Town of Islip.
 - DEC conducts surveys and studies as may be necessary to help research our environmental condition.
 - DEC sponsors community programs that foster increased understanding of environmental issues.
 - DEC maintains communications with public and private agencies of local, state and national scope whose programs have an impact on the quality of our environment.
 - DEC works closely with KIC (Keep Islip Clean) to further the mission of keeping our Town clean and beautiful.

Opportunities for Future Integration

Bullet list and indicate 2020 Mitigation Action #

9.23.7 Evacuation, Sheltering, Temporary Housing, and Permanent Housing

Evacuation routes, sheltering measures, temporary housing, and permanent housing must all be in place and available for public awareness to protect residents, mitigate risk, and relocate residents, if necessary, to maintain post-disaster social and economic stability.

Evacuation Routes

Evacuation announcements are made through the following platforms:

- Traditional media (Television and Radio);
- Social Media
- Islip Town E-Alert System – PIO -- Communication;
- SC Code Red Alert System -- Communication;
- SC Website w/ shelter mapping
- EOC – Provide warning/support

The Town utilizes the Fire Island Evacuation Plan in conjunction with the Fire Island Ferry Service. SCPD, NYS Police, SC Marine Bureau, TOI Harbor, and the TOI Park Rangers provide public safety. NYS/SC DOT designate the evacuation routes to be used (Route 27, Route 27A, Robert Moses Causeway, Route 111).

Sheltering

Shelters are established through coordination with Suffolk County and the American Red Cross.



Shelter Name	Address	Capacity	Accommodates Pets?	ADA Compliant?	Backup Power?	Types of Medical Services Provided	Other Services Provided
Brentwood Rec Center	99 Third Ave, Brentwood		Yes	No	No	N/A	Only shelter in Islip accepting pets beside Islip Animal Shelter.
Brentwood High School	2 6th Ave, Brentwood, NY 11717	490	No	Yes	Yes	Volunteer Health Services	NA
West Middle School	2030 Udall Rd, Bay Shore, NY 11706	245	No	ARC does not have ADA designation for this facility	Yes	Volunteer Health Services	NA
East Islip Middle School	00 Redmen St, Islip Terrace, NY 11752	371	No	ARC does not have ADA designation for this facility	Yes	Volunteer Health Services	NA
Seneca Middle School	850 Main St, Holbrook, NY 11741	249	No	ARC does not have ADA designation for this facility	Yes	Volunteer Health Services	NA
West Islip Community Center	90 Higbie Ln, West Islip		No	Yes	No	NA	NA
YMCA	200 W Main St, Bay Shore		No	Yes	Unknown	Unknown	Unknown

Temporary Housing

The Town of Islip has identified the following locations for the placement of temporary housing following a disaster event:

Site Name	Site Address	Infrastructure / Utilities Available (water, electric, septic, etc.)	Capacity (number of sites)	Type	Actions Required to Ensure Conformance with the NYS Uniform Fire Prevention and Building Code
Heckscher State Park	East Islip	Cottages-all utilities	15 Cottages	Cottages	None
		Campsites-Rest rms. But no utilities	67 campsites	Campground	
Bunker/Valley Mobile Home	1 Sunflower Dr, Bohemia, NY 11716	All utilities available	217	Mobile Home Park	None
Lincoln Village	1137 Lincoln Ave, Holbrook, NY 11741	All utilities available	122	Mobile Home Park	None



Site Name	Site Address	Infrastructure / Utilities Available (water, electric, septic, etc.)	Capacity (number of sites)	Type	Actions Required to Ensure Conformance with the NYS Uniform Fire Prevention and Building Code
Bay Shore Mobile Park	1419 Sunrise Hwy, Bay	All utilities available	110	Mobile Home Park	None
Suffolk Community College Parking Lot	1001 Crooked Hill Road in Brentwood, NY 11717.	No Utilities Available	TBD	College Parking Lot	DNA

Permanent Housing

The Town of Islip has identified the following locations for the placement of permanent housing in order to relocate homes outside of the floodplain.

Site Name	Site Address	Infrastructure / Utilities Available (water, electric, septic, etc.)	Capacity (number of sites)	Type	Actions Required to Ensure Conformance with the NYS Uniform Fire Prevention and Building Code
Serota Property	0500 - 21700 - 0200 – 009001, - 009003, -009004, - 009005 0500 - 19500 - 0200 – 087000 0500 - 21800 - 0100 – 001011, – 002002, – 002003, – 002004, – 002005, - 002006 0500 - 21700 - 0200 – 003002 0500 - 23900 - 0100 – 006001, - 007000, - 003002	None	350	Vacant undeveloped wooded property	TBD
NYIT 87 acres	187.10-1-4	Electric, Water, Sewer	354 Proposed	Existing buildings on site	TBD
Touro Bayshore	393-3-21.1	Not Constructed	418 Proposed	Former college	TBD
Fmr Dowling: Mansion, cloister wing, Racanelli Ctr	0 Idle Hour Blvd 324-5-17.3	Not Open	Unknown	3 buildings	TBD
Fmr Dowling: Coach house, Residence Hall	75 Idle Hour Blvd 325-3-57	Electric, Water, Sewer	Unknown	Plans Unknown	TBD
Fmr	0 Central Blvd	None	Unknown	Paved lot ~	TBD



Site Name	Site Address	Infrastructure / Utilities Available (water, electric, septic, etc.)	Capacity (number of sites)	Type	Actions Required to Ensure Conformance with the NYS Uniform Fire Prevention and Building Code
Dowling: Parking Lot	351-1-92.3			10 acres (approx. ½ in flood zone FEMA-2009)	

9.23.8 Hazard Event History Specific to the Town of Islip

Suffolk County has a history of natural and non-natural hazard events as detailed in Volume I, Section 5 (Risk Assessment) of this plan. A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities. The Town of Islip’s history of federally-declared (as presented by FEMA) and significant hazard events (as presented in NOAA-NCEI) is consistent with that of Suffolk County. Table 9.23-11 provides details regarding municipal-specific loss and damages the Town experienced during hazard events. Information provided in the table below is based on reference material or local sources. For details of these and additional events, refer to Volume I, Section 5.0 of this plan.

Table 9.23-11. Hazard Event History

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
February 8 – 9, 2013	Severe Winter Storm and Snowstorm (FEMA DR-4111)	Yes	Low pressure that formed along the northern Gulf coast by the morning of Thursday, February 7, 2013 moved northeast to near Cape Hatteras by the morning of Friday, February 8, 2013 . The low then rapidly intensified while moving northeast to a position east of Cape Cod by the morning of Saturday, February 9, 2013, producing very heavy snowfall and blizzard conditions across central and eastern Long Island on February 8th and 9th, and winter storm conditions across the rest of southeast New York.	Although the County was impacted, the Town did not report damages.
August 13, 2014 of rain	Severe Storm	No	13 inches of rain fell.	Flooding was reported
March 14 – 15, 2017	Severe Winter Storm and Snowstorm (FEMA DR-4322)	Yes	On Tuesday, March 14th, rapidly deepening low pressure tracked up the eastern seaboard resulting in damaging winds in Suffolk County.	Although the County was impacted, the Town did not report damages.
October 3, 2018	Tornado	No	EF 0 tornado	Emergency response was necessary

Notes:

EM Emergency Declaration (FEMA)





FEMA Federal Emergency Management Agency
 DR Major Disaster Declaration (FEMA)
 N/A Not applicable

9.23.9 Hazard Ranking and Jurisdiction-Specific Vulnerabilities

The hazard profiles in Section 5 (Risk Assessment) of this plan have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes critical facility and community lifeline flood exposure, and the hazards of greatest concern and risk to the Town of Islip. For additional vulnerability information relevant to this jurisdiction, refer to Section 5.

A gradient of certainty was developed to summarize the confidence level regarding the input used to populate the hazard ranking. A certainty factor of high, medium or low was selected and assigned to each hazard to provide a level of transparency and create increased understanding of the data used to support the resulting ranking. The following scale was used to assign a certainty factor to each hazard:

- High—Defined scenario/event to evaluate; probability calculated; evidenced-based/quantitative assessment to estimate potential impacts through hazard modeling.
- Moderate—Defined scenario/event or only a hazard area to evaluate; estimated probability; combination of quantitative (exposure analysis, no hazard modeling) and qualitative data to estimate potential impacts.
- Low—Scenario or hazard area is undefined; there is a degree of uncertainty regarding event probability; majority of potential impacts are qualitative.

Critical Facilities

New York Department of Environmental Conservation (DEC) Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a Special Flood Hazard Area (SFHA) unless constructed according to specific mitigation specifications, including being raised 2’ above the Base Flood Elevation (BFE). This statute is outlined at <http://tinyurl.com/6-CRR-NY-502-4>. While all vulnerabilities should be assessed and documented, the State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 500-year flood event, or worst damage scenario. For those that do not meet these criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities and community lifelines located in the 1-percent and 0.2-percent floodplain. It also summarizes if the facility is already mitigated in compliance with NYS standards (i.e., to the 0.2-percent annual chance event or worse-case scenario), or if a new mitigation action is proposed in the plan update.

Table 9.23-12. Potential Flood Losses to Critical Facilities

Name	Type	Exposure			Complies with NYS Standards	Addressed by Proposed Action
		1% Event		0.2% Event		
		A-Zone	V-Zone			
PUMPING STATION*	County Building	X	-	X	Unknown	2020-Islip-021
FAIR HARBOR FD HQ*	Fire/EMS	X	-	X	Unknown	2020-Islip-021
KISMET FD HQ*	Fire/EMS	X	-	X	Unknown	2020-Islip-021





Name	Type	Exposure			Complies with	Addressed by
Woodhull School	Polling Location	X	-	X	Unknown	2020-Islip-021
Fire Island School	Primary School	X	-	X	Unknown	2020-Islip-021
SD 3 PS-2 PUMP STATION GIRARD AVE*	County Building	X	-	X	Unknown	2020-Islip-021
SD PS-4 PUMP STATION PROSPECT AVE*	County Building	X	-	X	Unknown	2020-Islip-021
Browns Creek Bridge (Bryan's Bridge) *	Transportation	X	-	X	Unknown	2020-Islip-021
Penataquit Avenue Bridge*	Transportation	X	-	X	Unknown	2020-Islip-021
Hollywood Drive Bridge*	Transportation	X	-	X	Unknown	2020-Islip-021
Miami Road Pedestrian Bridge*	Transportation	X	-	X	Unknown	2020-Islip-021
Awixa Avenue Bridge*	Transportation	X	-	X	Unknown	2020-Islip-021
Idle Hour Blvd. Bridge*	Transportation	X	-	X	Unknown	2020-Islip-021
Captree State Park Fishing Basin*	Transportation	X	-	X	Unknown	2020-Islip-021
Captree Island-7u*	Electric/Power	X	-	X	Unknown	2020-Islip-021
Fair Harbor-7am*	Electric/Power	X	-	X	Unknown	2020-Islip-021
Ocean Beach-7lm*	Electric/Power	X	-	X	Unknown	2020-Islip-021
Potable Water Asset*	Potable Water	X	-	X	Unknown	2020-Islip-021
Potable Water Asset*	Potable Water	X	-	X	Unknown	2020-Islip-021
Potable Water Asset*	Potable Water	X	-	X	Unknown	2020-Islip-021



Name	Type	Exposure			Complies with	Addressed by
Potable Water Asset*	Potable Water	X	-	X	Unknown	2020-Islip-021
Potable Water Asset*	Potable Water	X	-	X	Unknown	2020-Islip-021
Potable Water Asset*	Potable Water	X	-	X	Unknown	2020-Islip-021
Potable Water Asset*	Potable Water	X	-	X	Unknown	2020-Islip-021
Potable Water Asset*	Potable Water	X	-	X	Unknown	2020-Islip-021
Potable Water Asset*	Potable Water	X	-	X	Unknown	2020-Islip-021
Potable Water Asset*	Potable Water	X	-	X	Unknown	2020-Islip-021
Pump Station # Unknown*	Wastewater	X	-	X	No	2020-Islip-015
Pump Station #4*	Wastewater	X	-	X	No	2020-Islip-015
Pump Station #5*	Wastewater	X	-	X	No	2020-Islip-015
Pump Station #6*	Wastewater	X	-	X	No	2020-Islip-015
Our Lady Of Consolation Geriatric*	Senior Facility	X	-	X	No	2020-Islip-021
Central Roadway Well Field & Pump Station*	SCWA	X	-	X	No	2020-Islip-021
Sandy Walk Well Field & Pump Station*	SCWA	X	-	X	No	2020-Islip-021
Robbins Walk Well Field & Pump Station*	SCWA	X	-	X	No	2020-Islip-021
Central Walk (Cranberry Walk) Well Field & Pump Station*	SCWA	X	-	X	No	2020-Islip-021
Cedar Court Well Field & Pump Station*	SCWA	X	-	X	No	2020-Islip-021
Cedar Court Well Field & Pump Station*	SCWA	X	-	X	No	2020-Islip-021
Atlantique*	Municipal	X	X	-	Yes	-



Name	Type	Exposure			Complies with	Addressed by
	Building					
Bay Shore Marina Park (including Benjamin's Beach) *	Municipal Building	X	X	X	Yes	-
Bayport Beach*	Municipal Building	X	X	X	No	2020-Islip-016
Browns River East Marina*	Municipal Building	X	X	X	Yes	-
Browns River West Marina*	Municipal Building	X	X	X	Yes	-
Byron Lake Park*	Municipal Building	X	X	X	Yes	-
Dunewood*	Municipal Building	X	X	X	Yes	-
Fair Harbor*	Municipal Building	X	X	X	Yes	-
Great River Launching Ramp ONLY*	Municipal Building	X	X	X	Yes	-
Homan Creek Dock*	Municipal Building	X	-	-	Yes	-
Kismet*	Municipal Building	X	X	-	Yes	-
Maple Avenue Dock*	Municipal Building	X	-	-	Yes	-
Maple Street Dock*	Municipal Building	X	-	-	Yes	-
Ocean Avenue Dock*	Municipal Building	X	-	-	Yes	-
Raymond Street Dock*	Municipal Building	X	-	-	Yes	-
Sayville Beach*	Municipal Building	X	X	-	Yes	-
Seaview*	Municipal Building	X	X	-	Yes	-



Name	Type	Exposure			Complies with	Addressed by
South Shore Nature Center*	Municipal Building	X	-	X	Yes	-
West Islip Beach*	Municipal Building	X	X	X	No	2020-Islip-008
West Islip Marina Park*	Municipal Building	X	X	X	No	2020-Islip-008
Wagstaff Heliport*	Aviation	-	X	X	Unknown	2020-Islip-021
RESIDENCE PARK FOREMAN*	County Building	-	X	X	Unknown	2020-Islip-021
Potable Water Asset*	Potable Water	-	X	X	Unknown	2020-Islip-021
Bay Walk Well Field & Pump Station*	SCWA	-	X	X	Unknown	2020-Islip-021
East Islip Marina Park*	Municipal Building	-	X	-	Yes	-
Islip Beach*	Municipal Building	-	X	-	Yes	-
Port-O-Call Marina*	Municipal Building	-	X	-	Yes	-
Sayville Marina*	Municipal Building	-	X	-	Yes	-
West Avenue Dock*	Municipal Building	-	X	-	Yes	-
RESIDENCE PARK FOREMAN*	County Building	-	X	-	Unknown	2020-Islip-021
Pump Station #2*	Wastewater	-	-	X	-	-
Pump Station #7*	Wastewater	-	-	X	-	-
NYS DOT Captree State Park*	DPW/DOT	-	-	X	-	-
Bay Walk Well Field & Pump Station*	SCWA	-	X	X	Unknown	2020-Islip-021
Saltaire FD HQ*	Fire/EMS	-	-	X	-	-
Ocean Beach FD*	Fire/EMS	-	-	X	-	-



Name	Type	Exposure			Complies with	Addressed by
Shellfish Culture Facility*	Municipal Building	-	-	X	-	-

Source: Suffolk County 2020; FEMA 2009

Notes: x = Facility is located in the floodplain boundary.

*Community Lifeline

Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Section 5 (Risk Assessment) of the plan. The ranking process involves an assessment of the likelihood of occurrence for each hazard, along with its potential impacts on people, property, and the economy as well as community capability and changing future climate conditions. This input supports the mitigation action development to target those hazards with highest level of concern.

As discussed in Section 5.3 (Hazard Ranking), each participating jurisdiction may have differing degrees of risk exposure and vulnerability compared to Suffolk County as a whole. Therefore, each municipality ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Town of Islip. The Town of Islip has reviewed the county hazard risk/vulnerability risk ranking table and provided input to its individual results to reflect the relative risk of the hazards of concern to the community.

During the review of the hazard/vulnerability risk ranking, the Town of Islip indicated the following:

- The Town changed the calculated hazard ranking for disease outbreak from medium to high, noting the impacts of the coronavirus pandemic and the Town’s dense population.
- The Town agreed with the remainder of the calculated hazard rankings.

Table 9.23-13. Hazard Ranking

Coastal Erosion Medium	Cyber Security Medium	Disease Outbreak High	Drought Low	Earthquake Medium	Expansive Soils Low
Extreme Temperature Medium	Flood High	Groundwater Contamination Medium	Hurricane High	Infestation and Invasive Species Medium	Nor’Easter High
	Severe Storm Medium	Severe Winter Storm Medium	Shallow Groundwater High	Wildfire Medium	

Identified Issues

The municipality has identified the following vulnerabilities within their community:

- The Town of Islip has many areas that are prone to flooding. During Superstorm Sandy, the Town sustained tens of millions of dollars in damage to its Marinas and coastal facilities as well as structural damage to a number of Town owned buildings. Residential and municipal owned bulkhead and other water retention measures were compromised.
- The Fire Island Dune System protects the barrier island. It continues to suffer extreme erosion as well as major coastal flooding along the south shore.



Specific areas of concern based on resident response to the Suffolk County Hazard Mitigation Citizen survey include:

- Flooding takes place on Grant Avenue, Moffit Boulevard, and south of Main Street

9.23.10 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and their prioritization.

Past Mitigation Initiative Status

The following table indicates progress on the community’s mitigation strategy identified in the 2014 HMP. Actions that are carried forward as part of this plan update are included in the updated mitigation strategy table (Table 9.23-15). Previous actions that are now on-going programs and capabilities are indicated as such in the following table and may also be found under ‘Capability Assessment’ presented previously in this annex.

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Table 9.23-14. Status of Previous Mitigation Actions

TI	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in 2020 HMP or Discontinue 2. If including action in the 2020 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
						Cost	Level of Protection	
TI-1	Town of Islip Comprehensive All-Hazards Emergency Operations Plan	All Hazards	Town of Islip: Anthony J. D'Amico, Deputy Commissioner of Public Safety		Ongoing Capability; In conjunction with Suffolk County OEM, the TOI from early 2016 drafted its CEMP and met and reviewed with Department heads and representatives. TOI OEM participated in the Suffolk County CEMP implementation Tabletop Exercise during the fall of 2018. The TOI Draft CEMP, incorporating the ESF concept, is complete but has not yet been formally adopted by the Town Board.	Cost		1. Discontinue 2. 3. Ongoing capability
TI-7	Sandy HMGP LOI #179 - Purchase and install digital interoperable radios at all sites for all DEC site supervisors, foremen, inspectors, collection drivers and administrative personnel.	Hurricane, Nor'Easter, Severe Storms, Severe Winter Storm, Loss of Power	Town of Islip: Anthony J. D'Amico, Deputy Commissioner of Public Safety		No Progress	Cost		1. Include in 2020 HMP 2. 3.
TI-8	Sandy HMGP LOI #180 - Install microwave links to our four major sites which have responsibility for collection, receiving and processing of vegetative as well as solid and hazardous storm debris.	Hurricane, Nor'Easter, Severe Storms, Severe Winter Storm, Loss of Power	Town of Islip: Anthony J. D'Amico, Deputy Commissioner of Public Safety		Ongoing Capability	Cost		1. Discontinue 2. 3. Ongoing capability
TI-9	Sandy HMGP LOI #219 - Create a wireless backup infrastructure to prevent communications interruptions.	Hurricane, Nor'Easter, Severe Storms, Severe Winter Storm, Loss of Power	Town of Islip: Anthony J. D'Amico, Deputy Commissioner of Public Safety		Complete. Antenna's were placed and data links established on 401, Kismet Fire Dept and the Airport (FAA Tower) back in 2013. Both links from the 401 Tower are in need of repair/currently non-functional. Capital Funding was believed to have been used in 2013 for these links.	Cost		1. Discontinue 2. 3. Complete
TI-10	Sandy HMGP LOI #340 -	Flooding	Town of Islip: Anthony J.		No Progress	Cost		1. Discontinue 2.



	Relocate the current EOC to the FAA Flight Service Station at the Long Island MacArthur Airport facility		D'Amico, Deputy Commissioner of Public Safety			Protection Damages Avoided; Evidence of Success		3. The plan to utilize the FAA Flight Service Station at the Long Island MacArthur Airport facility was abandoned. Instead, the original EOC 401 Main was renovated during the spring of 2019 utilizing TOI town capital project funding.
TI-11	Sandy HMGP LOI #400 – Purchase equipment necessary to capture damage assessment information	Hurricane, Nor'Easter, Severe Storms, Severe Winter Storm	Town of Islip: Anthony J. D'Amico, Deputy Commissioner of Public Safety		Ongoing Capability. January 2020 Purchased (2) Toughbook's w/Keyboards, \$7663.34.	Cost Level of Protection Damages Avoided; Evidence of Success	\$7,663.34	1. Discontinue 2. 3. Ongoing capability
TI-12	Sandy HMGP LOI #440 - Harden, advance and expand the existing EOC to create a more robust center designed to further protect Islip Town and its residents.	Hurricane, Nor'Easter, Severe Storms, Severe Winter Storm, Flooding	Town of Islip: Anthony J. D'Amico, Deputy Commissioner of Public Safety		Ongoing Capability. EOC renovation at 401 Main St. completed Spring 2019 with TOI Capital fund funding. Public Safety Dispatch Center renovated and operations moved to the 3rd floor and began full operation in new location Fall 2018. Facility still needs new windows component for project to be funded and completed.	Cost Level of Protection Damages Avoided; Evidence of Success		1. Include in to 2020 HMGP 2. 3.
TI-13	Sandy HMGP LOI #661 - Harden of Town Hall West by employing measures that would reinforce necessary staging for a disaster recovery center, communication and public gathering centers, personnel and shelter staging areas	Hurricane, Nor'Easter, Severe Storms, Severe Winter Storm, Flooding	Town of Islip: Anthony J. D'Amico, Deputy Commissioner of Public Safety		No Progress	Cost Level of Protection Damages Avoided; Evidence of Success		1. Discontinue 2. 3. No longer a priority
TI-14	Sandy HMGP LOI #694 – Harden critical facilities against hazard impacts.	Hurricane, Nor'Easter, Severe Storms, Severe Winter Storm,	Town of Islip: Anthony J. D'Amico, Deputy Commissioner of Public		In Progress	Cost Level of Protection Damages Avoided; Evidence		1. Include in 2020 HMP 2. 3.



Section 9.23: Town of Islip

		Flooding	Safety			of Success		
TI-15	Sandy HMGP LOI #1248 – Restore and prevent damage to the docks from future events.	Hurricane, Nor'Easter, Severe Storms, Severe Winter Storm, Flooding, Coastal Erosion	Town of Islip: Anthony J. D'Amico, Deputy Commissioner of Public Safety		Ongoing Capability. Repair of existing damage was repaired and this project can be considered completed. Further hardening of the facility is desired, then this is still an open project. Hardening of facilities and raising of docks at Atlantique should remain on the project listing.	Cost Level of Protection Damages Avoided; Evidence of Success		1. Include in to 2020 HMGP 2. 3. Ongoing capability
TI-16	Sandy HMGP LOI #1253 - Raise the existing structures at Atlantique and consolidate functionality to allow for a satellite Emergency Operations Center and shelter for residents.	Hurricane, Nor'Easter, Severe Storms, Severe Winter Storm, Flooding	Town of Islip: Anthony J. D'Amico, Deputy Commissioner of Public Safety		Ongoing Capability. Project partially undertaken. Electrical panels were raised. rest of project discontinued. Remove as a project	Cost Level of Protection Damages Avoided; Evidence of Success		1. Discontinue 2. 3. Ongoing capability
TI-17	Sandy HMGP LOI #1406 – Elevate flood-prone roadways.	Hurricane, Nor'Easter, Severe Storms, Severe Winter Storm, Flooding	Town of Islip: Anthony J. D'Amico, Deputy Commissioner of Public Safety		Ongoing Capability	Cost Level of Protection Damages Avoided; Evidence of Success		1. Discontinue 2. 3. Ongoing Capability
TI-18	Sandy HMGP LOI #1513 – Install back-up power generators at the Long Island McArthur Airport Maintenance and Snow Facility.	Hurricane, Nor'Easter, Severe Storm, Severe Winter Storm, Earthquake	Town of Islip: Anthony J. D'Amico, Deputy Commissioner of Public Safety		No Progress	Cost Level of Protection Damages Avoided; Evidence of Success		1. Discontinue 2. 3. No longer a priority
TI-19	Sandy HMGP LOI #1576 – Install a back-up power generator at the MacArthur Composting facility.	Hurricane, Nor'Easter, Severe Storm, Severe Winter Storm, Earthquake	Town of Islip: Anthony J. D'Amico, Deputy Commissioner of Public Safety		No Progress	Cost Level of Protection Damages Avoided; Evidence of Success		1. Discontinue 2. 3. No longer a priority
TI-20	Sandy HMGP LOI #1578 - Purchase & installation of 3 natural gas generators for the scale house, office and	Hurricane, Nor'Easter, Severe Storm, Severe Winter Storm,	Town of Islip: Anthony J. D'Amico, Deputy Commissioner		No Progress	Cost Level of Protection Damages Avoided;		1. Include in 2020 HMP 2. 3.



	maintenance shop at the Hauppauge Landfill.	Earthquake	of Public Safety			Evidence of Success		
TI-21	Sandy HMGP LOI #1931 – Install back-up power generators at critical Town facilities.	Hurricane, Nor'Easter, Severe Storm, Severe Winter Storm, Earthquake	Town of Islip: Anthony J. D'Amico, Deputy Commissioner of Public Safety		No Progress	Cost Level of Protection Damages Avoided; Evidence of Success		1. Discontinue 2. 3. No longer a priority
TI-22	Support and participate in county led initiatives intended to build local and regional mitigation and risk-reduction capabilities (see Section 9.1), specifically: <ul style="list-style-type: none"> Mitigation Education for Natural Disasters (natural hazard awareness and personal scale risk reduction/mitigation on public education and outreach program) Build Local Floodplain Management and Disaster Recovery Capabilities (enhanced floodplain management, and post-disaster assessment and recovery capabilities) County-Wide Debris Management Plan Jurisdictional Knowledge of Mitigation Needs of Property Owners (improved understanding of 	All Hazards	Suffolk County, as supported by relevant local department leads		Ongoing Capability. <ul style="list-style-type: none"> Mitigation Education for Natural Disasters (natural hazard awareness and personal scale risk reduction, mitigation public education and outreach program) This was established with MEND see: https://www.suffolkcountyny.gov/mend/index.html Build Local Floodplain Management and Disaster Recovery Capabilities (enhanced floodplain management, and post-disaster assessment and recovery capabilities) This was applied for in FY2018 and was denied due to an error with the application. This will be in the updated plan. County-Wide Debris Management Plan • Jurisdictional Knowledge of Mitigation Needs of Property Owners (improved understanding of damages and mitigation interest, activity of private property owners) –COMPLETED 2016 Create a Multi-Jurisdictional Seismic Safety Committee in Suffolk County (build regional, county and local capabilities to manage seismic risk, both pre- and post-disaster) -No Progress Alignment of Mitigation Initiatives through all levels of Government (effort to build State and Federal level recognition and support of the County and local hazard mitigation planning strategies identified in this plan). This is being re-worked and included in the updated plan 	Cost Level of Protection Damages Avoided; Evidence of Success		1. Discontinue 2. 3. Ongoing capability



	<p>damages and mitigation interest/activity of private property owners)</p> <ul style="list-style-type: none"> • Create a Multi-Jurisdictional Seismic Safety Committee in Suffolk County (build regional, county and local capabilities to manage seismic risk, both pre- and post-disaster) • Alignment of Mitigation Initiatives through all levels of Government (effort to build State and Federal level recognition and support of the County and local hazard mitigation planning strategies identified in this plan). 							
TI-23	Assess and prioritize need for generators at critical town facilities and to maintain operations during power outages. Implement as funding becomes available.	Earthquake, Flood, Hurricane, Nor'Easter, Severe Storm, Shallow GW, Wildfire, Winter Storm	Islip Town DPW		In Progress	Cost		1. Include in 2020 HMP
						Level of Protection		2.
						Damages Avoided; Evidence of Success		3.
TI-24	Research and prioritize town structures that are located within the flood plain, analyze mitigation options to prevent flooding and implement as funding becomes available.	Flood, Hurricane, Nor'Easter, Severe Storm	Islip Town DPW		Complete	Cost		1. Discontinue
						Level of Protection		2.
						Damages Avoided; Evidence of Success		3. Complete
TI-25	Add storage (temporary and	Widespread	Town of Islip:		No Progress	Cost		



	mobile) for gas and diesel in the Long Island MacArthur Airport maintenance yard for use by other town departments, and/or designated organizations, e.g. community ambulances.	Power Outages	Long Island MacArthur Airport			Level of Protection		1. Discontinue 2.
						Damages Avoided; Evidence of Success		
TI-26	Investigate options to purchase additional needed emergency vehicles (high axle emergency response vehicles, debris removal trucks, etc.) necessary to access or maintain access to residential areas that are otherwise inaccessible due to flood, debris, etc. during and post critical events.	Coastal Erosion, Earthquake, Flood, Hurricane, Nor'Easter, Severe Storm, Shallow GW, Wildfire, Winter Storm	Islip Town DPW		Ongoing Capability. High axle trucks were not purchased but approximately 14 debris removal trucks were. Leave as active project going forward	Cost		1. Include in 2020 HMP
						Level of Protection		2.
						Damages Avoided; Evidence of Success		3.
TI-27	Research options and prioritize critical locations / town facilities to employ various methods of alternative energy including but not limited to: solar, wind, storage cells, etc.	Earthquake, Flood, Hurricane, Nor'Easter, Severe Storm, Wildfire, Winter Storm	Islip Town DEC		Complete. The solar projects at Blydenburgh and Lincoln Avenue were completed. The property leased to an outside contractor who constructed and maintains the two solar farms. The Building Department involved with permitting the Blydenberg and Lincoln Ave solar farms (initiative undertaken by DEC, but not evaluating facilities for future work.	Cost		1. Discontinue
						Level of Protection		2.
						Damages Avoided; Evidence of Success		3. Complete
TI-28	Work together with the County and others to bring, National Incident Management System, State Emergency Management System, and Incident Command System training/workshops into the community where appropriate community officials and staff will actively participate.	Drought, Earthquake, Expansive Soils, Flood, Groundwater Contam, Hurricane, Infestation, Nor'Easter, Severe Storm, Shallow GW, Wildfire, Winter Storm	Islip Town Public Safety		Ongoing Capability. SC All Hazards CEMP completed 2018, ICS I-300 courses hosted by TOI Public Safety over the past few years	Cost		1. Discontinue
						Level of Protection		2.
						Damages Avoided; Evidence of Success		3. Ongoing capability
TI-29	Undertake an assessment of need, options, priorities and funding availability to employ a wireless communication system to contact employees	Earthquake, Flood, Hurricane, Nor'Easter, Severe Storm, Wildfire,	Islip Town Information Technology		Ongoing Capability. TOI is using cell phone technology for reaching out to employees. In addition, some key employees such as Airport, Public Safety and Safety Office have been issued radios tied to the Dispatchers in Public Safety. In addition, The Safety Director and the Safety	Cost		1. Discontinue
						Level of Protection		2.
						Damages Avoided; Evidence		3. Ongoing capability



	on and off the job ensuring the ability to communicate during critical events. Implement as funding becomes available.	Winter Storm			Director have radios that reach to the Airport Law Enforcement and Fire/Rescue personnel.	of Success		
TI-30	Undertake an assessment of need, options, priorities and funding availability to expand the current HR computer system to enable the tracking of employee training and coding employ time worked on emergency clean up or projects. Implement as funding becomes available.	Earthquake, Flood, Groundwater Contam, Hurricane, Nor'Easter, Severe Storm, Wildfire, Winter Storm	Islip Town Information Technology.		Complete. The Springbrook system has been enabled to capture all employee training. TOI now populating the system with past training.	Cost		1. Discontinue 2. 3. Complete
						Level of Protection		
						Damages Avoided; Evidence of Success		
TI-31	Undertake an assessment of need, options, priorities and funding availability to purchase and utilize electronic devices (i.e. laptops, tablets, etc.) to more efficiently maintain government operations from various remote locations in time of emergency ensuring the ability to operate during critical events. Implement as funding becomes available.	Earthquake, Flood, Groundwater Contam, Hurricane, Nor'Easter, Severe Storm, Wildfire, Winter Storm	Islip Town Information Technology		Ongoing Capability	Cost		1. Discontinue 2. 3. Ongoing capability
						Level of Protection		
						Damages Avoided; Evidence of Success		
TI-32	Develop, train and employ protocols for each department to operate from a remote location in the event that functioning from the departments normal work space is impractical or impossible due to emergency conditions (power, flood, damage, etc.) ensuring the ability to operate during critical events.	Earthquake, Flood, Groundwater Contam, Hurricane, Nor'Easter, Severe Storm, Wildfire, Winter Storm	Islip Town Information Technology		Ongoing Capability	Cost		1. Discontinue 2. 3. Ongoing capability
						Level of Protection		
						Damages Avoided; Evidence of Success		
TI-33	Establish a dedicated phone	Coastal Erosion,	Islip Town Information		Complete and Ongoing. Enacted in part by setting up Room 226 (401 Main St.) as a call center during	Cost		1. Discontinue 2.
						Level of		



	line for town related calls for service and publicize that number through various forms of media, internet, mailings, etc.	Drought, Earthquake, Expansive Soils, Flood, Groundwater Contam, Hurricane, Infestation, Nor'Easter, Severe Storm, Shallow GW, Wildfire, Winter Storm	Technology		major events.	Protection Damages Avoided; Evidence of Success		3. Ongoing capability.
TI-34	Develop and implement protocols for issuance of critical documents (i.e. issuance of death certificates, burial transport permits, etc.) during the immediate aftermath of an emergency or other catastrophic event involving mass fatalities.	Earthquake, Flood, Hurricane, Nor'Easter, Severe Storm, Wildfire, Winter Storm	Islip Town Clerk's Office		In Progress	Cost Level of Protection Damages Avoided; Evidence of Success		1. Discontinue 2. 3.
TI-35	Research location, design and cost options to create a dry storage room for vulnerable town documents in the vacant flight services facility at the Long Island MacArthur Airport ensuring that historical documents are safe, accessible and secure allowing for no loss of information during and post critical events. Implement as funding becomes available.	Earthquake, Flood, Hurricane, Nor'Easter, Severe Storm, Wildfire, Winter Storm	Islip Town Clerk's Office		In Progress. TOI has received \$1,000,000 from New York's Empire State Development Committee and anticipate the Federal Aviation Administration funding 90% of the remaining \$6,800,000 project balance. The New York State Department of Transportation and the Airport's Passenger Facility Charge will each contribute five percent of the remaining balance	Cost Level of Protection Damages Avoided; Evidence of Success		1. Discontinue 2. 3. No longer a priority
TI-36	Research location, design and cost options to increase storage capacity for tangible records and install fire proof vaults or safes at various town facilities to properly store and protect vital records. . Implement as funding becomes available.	Earthquake, Flood, Hurricane, Nor'Easter, Severe Storm, Wildfire, Winter Storm	Islip Town Clerk's Office		No Progress	Cost Level of Protection Damages Avoided; Evidence of Success		1. Discontinue 2. 3. No longer a priority



TI-37	Research location, design and cost options to increase storage capacity for digital records and procure Scanning Equipment to digitize documents and other important records ensuring no records are lost. Implement as funding becomes available.	Earthquake, Flood, Hurricane, Nor'Easter, Severe Storm, Wildfire, Winter Storm	Islip Town Information Technology		No Progress	Cost		<ol style="list-style-type: none"> 1. Discontinue 2. 3. No longer a priority
						Level of Protection		
						Damages Avoided; Evidence of Success		
TI-38	Retrofit the Tax Receiver's Office located at 40 Nassau Avenue with a second story addition. This facility would need a freight elevator or lift system in order to move items to the second floor and for handicap accessibility. The building would benefit from the addition of structural security to hurricane proof the building and windows.	Earthquake, Flood, Hurricane, Nor'Easter, Severe Storm, Wildfire, Winter Storm	Town of Islip		No Progress	Cost		<ol style="list-style-type: none"> 1. Discontinue 2. 3. No longer a priority
						Level of Protection		
						Damages Avoided; Evidence of Success		
TI-39	Working with the County and adjacent communities develop a public education and outreach campaign targeted at residents and businesses with the goal to equip them with knowledge needed to be more prepared for an event and resilient when an event occurs including. Promote at public education events and publicize such events via communications tools, encouraging or initiating disaster planning in the business community.	Coastal Erosion, Drought, Earthquake, Expansive Soils, Flood, Groundwater Contam, Hurricane, Infestation, Nor'Easter, Severe Storm, Shallow GW, Wildfire, Winter Storm	Islip Town Economic Dev.		Ongoing Capability	Cost		<ol style="list-style-type: none"> 1. Discontinue 2. 3. Ongoing Capability
						Level of Protection		
						Damages Avoided; Evidence of Success		
TI-40	Identify and maintain a list of locations within the Town of Islip that have sophisticated communication capabilities and redundant power supplies	Earthquake, Flood, Hurricane, Nor'Easter, Severe Storm,	Islip Town Economic Dev.		Ongoing Capability	Cost		<ol style="list-style-type: none"> 1. Discontinue 2. 3. Ongoing capability
						Level of Protection		
						Damages Avoided;		



	that can help minimize business interruption.	Wildfire, Winter Storm				Evidence of Success		
TI-41	Encourage large companies with required capabilities to arrange for gas tanker shipments directly to their facilities, where they could dispense gas remotely to their fleet and/or employees. This would limit trucking issues and enable employees to commute to their place of employment.	Earthquake, Flood, Hurricane, Nor'Easter, Severe Storm, Wildfire, Winter Storm	Islip Town Economic Dev.		Ongoing Capability	Cost Level of Protection Damages Avoided; Evidence of Success		1. Discontinue 2. 3. Ongoing capability
TI-42	Develop, design and launch an alternative emergency website for Town residents which will serve as a year round public education tool and serve as a primary communications tool during active emergencies.	Coastal Erosion, Drought, Earthquake, Expansive Soils, Flood, Groundwater Contam, Hurricane, Infestation, Nor'Easter, Severe Storm, Shallow GW, Wildfire, Winter Storm	Islip Town Public Information		Ongoing Capability, website developed	Cost Level of Protection Damages Avoided; Evidence of Success		1. Discontinue 2. 3. Ongoing capability
TI-43	Expand government access channel 18 programming and technology capabilities to promote ongoing preparedness education and to broadcast critical guidance during emergencies.	Coastal Erosion, Drought, Earthquake, Expansive Soils, Flood, Groundwater Contam, Hurricane, Infestation, Nor'Easter, Severe Storm, Shallow GW, Wildfire, Winter Storm	Islip Town Public Information		In Progress	Cost Level of Protection Damages Avoided; Evidence of Success		1. Discontinue 2. 3. No longer a priority
TI-44	Develop, print and mail a geographic based safety guide	Coastal Erosion,	Islip Town Public Information		No Progress	Cost Level of Protection		1. Discontinue 2. 3. No longer a



	for Town of Islip residents to improve communications before, during and after emergencies.	Drought, Earthquake, Expansive Soils, Flood, Groundwater Contam, Hurricane, Infestation, Nor'Easter, Severe Storm, Shallow GW, Wildfire, Winter Storm				Damages Avoided; Evidence of Success		priority
TI-45	Investigate the need, options and costs and various grants or funding availability to purchase charging station equipment for residents to use during prolonged utility failures. Implement as funding becomes available.	Earthquake, Flood, Hurricane, Nor'Easter, Severe Storm, Wildfire, Winter Storm	Islip Town Information Technology		No Progress	Cost Level of Protection Damages Avoided; Evidence of Success		1. Discontinue 2. 3. No longer a priority
TI-46	Investigate the need, options and costs and various grant or funding availability to purchase and establish an automated phone call system to deliver pre-recorded messaging during active emergencies and to provide instructional information about major emergency events.	Earthquake, Flood, Hurricane, Nor'Easter, Severe Storm, Wildfire, Winter Storm	Islip Town Information Technology		Complete. CodeRED	Cost Level of Protection Damages Avoided; Evidence of Success		1. Discontinue 2. 3. Complete
TI-47	Contract language translation services to ensure public emergency written and broadcast messaging reaches non-English speaking audiences and participate with other organizations to effectively reach all residents (English and non-English speaking).	Coastal Erosion, Drought, Earthquake, Expansive Soils, Flood, Groundwater Contam, Hurricane, Infestation, Nor'Easter, Severe Storm,	Islip Town Public Information		Ongoing Capability	Cost Level of Protection Damages Avoided; Evidence of Success		1. Discontinue 2. 3. Ongoing capability



		Shallow GW, Wildfire, Winter Storm						
TI-48 (NY Rising Oakdale-West Sayville 1)	Living Marsh - Add additional pipes to increase circulation between the Grand Canal and the wetlands (Oakdale).	Coastal Erosion, Expansive Soils, Flood, Groundwater Contam, Hurricane, Nor'Easter, Severe Storm, Shallow GW, Winter Storm	NY Rising Community Reconstruction Program		No Progress	Cost		1. Discontinue 2. 3. Project cancelled, possibly abandoned due to public concerns
						Level of Protection		
						Damages Avoided; Evidence of Success		
TI-49 (NY Rising Oakdale-West Sayville 2)	Remove bulkhead and add fill (sand, berms, beach grass, etc.) to provide storm surge protection along the waterfront	Coastal Erosion, Flood, Hurricane, Nor'Easter, Severe Storm	NY Rising Community Reconstruction Program		No Progress	Cost		1. Discontinue 2. 3. Cancelled. Planning not familiar with project at current time.
						Level of Protection		
						Damages Avoided; Evidence of Success		
TI-50 (NY Rising Oakdale-West Sayville 3)	Identify roads that are low lying and fund construction of the roads that are deemed as the highest priority to mitigate from flooding.	Coastal Erosion, Flood, Hurricane, Nor'Easter, Severe Storm	NY Rising Community Reconstruction Program		In Progress. In Progress, currently working with DASNY	Cost		1. Include in 2020 HMP 2. 3.
						Level of Protection		
						Damages Avoided; Evidence of Success		
TI-51 (NY Rising Oakdale-West Sayville)	Identify outfall pipes that lead to the most severe flooding and affect the most properties. Install an appropriate check valve system.	Coastal Erosion, Flood, Groundwater Contamination (natural), Hurricane, Nor'Easter, Severe Storm	NY Rising Community Reconstruction Program		Complete	Cost		1. Discontinue 2. 3. Complete
						Level of Protection		
						Damages Avoided; Evidence of Success		



4)								
TI-52	Emergency shelter sites – evaluate sites, develop a site plan, ensure emergency power is available, and have a standing supply of necessary materials to accommodate a large temporary population.	Earthquake, Flood, Hurricane, Nor'Easter, Severe Storm, Wildfire, Winter Storm	- - -		Ongoing Capability. Additional supplies since 2014 that are intended for use in mass sheltering operations (generators for redundant power supplies at shelters, Light towers for use at shelters for exterior lighting and power supply, MREs, Water, the box truck to be able to more effectively and efficiently roll sheltering supplies out to locations, etc. CERT and ARC radio communications capabilities were also enhanced. 800mhz radio training was provided. The ARC conducted a sheltering capability assessment early in 2019. ARC has conducted sheltering drills since 2014. Some of those drills were interagency drills involving FRES, CERT and SPCA along with ARC.	Cost Level of Protection Damages Avoided; Evidence of Success		1. Discontinue 2. 3. Ongoing Capability
TI-53	Assess and prioritize options to improve drainage along roadways, and implement as funding becomes available.	Coastal Erosion, Flood, Hurricane, Nor'Easter, Severe Storm, Shallow GW, Winter Storm	Islip Town Public Works		In Progress	Cost Level of Protection Damages Avoided; Evidence of Success		1. Discontinue 2. 3. No longer a priority
TI-54	Improve preparedness in the Oakdale/West Sayville community by coordinating with various emergency response agencies and developing educational materials.	Coastal Erosion, Drought, Earthquake, Expansive Soils, Flood, Groundwater Contam, Hurricane, Infestation, Nor'Easter, Severe Storm, Shallow GW, Wildfire, Winter Storm	- - -		Ongoing Capability, generally an annual exercise or symposium is held, which engages members of numerous departments and agencies.	Cost Level of Protection Damages Avoided; Evidence of Success		1. Discontinue 2. 3. Ongoing Capability
TI-55	Explore the feasibility of a pilot project to install a "smart meter" system so that individual residential and commercial properties that are safe to occupy could be re-energized without having to wait for all other properties	Earthquake, Flood, Hurricane, Nor'Easter, Severe Storm, Wildfire, Winter Storm	- - -		In Progress. PSEG-LI has been on a major service enhancement and installing of "Smart" meters throughout their service territory	Cost Level of Protection Damages Avoided; Evidence of Success		1. Discontinue 2. 3. No longer a priority



	to be certified as safe.							
TI-56	Develop an Oakdale Central Business District Master Implementation Plan that would identify in a specific manner what would be necessary to accomplish the Vision 2008 plan.	Coastal Erosion, Earthquake, Flood, Hurricane, Nor'Easter, Severe Storm, Shallow GW, Winter Storm	- - -		No Progress	Cost Level of Protection Damages Avoided; Evidence of Success		1. Discontinue 2. 3. According to Planning a determination was made that this is a Hamlet Plan dealing with zoning issues along Montauk Hwy having nothing to do with any type of mitigation concerns.
TI-57 (NY Rising Oakdale-West Sayville 5)	Develop a tertiary level wastewater treatment system	Drought, Earthquake, Flood, Groundwater Contam, Hurricane, Nor'Easter, Severe Storm, Shallow GW, Wildfire, Winter Storm	NY Rising Community Reconstruction Program		No Progress. NYS GOSR project not started.	Cost Level of Protection Damages Avoided; Evidence of Success		1. Discontinue 2. 3. No longer a priority
TI-58 (NY Rising West Islip-1)	Identify and supply a facility for use as a local drop-in center and distribution center in West Islip; install a back-up power generator at this facility if none exists.	Earthquake, Flood, Hurricane, Nor'Easter, Severe Storm, Wildfire, Winter Storm	NY Rising Community Reconstruction Program		No Progress	Cost Level of Protection Damages Avoided; Evidence of Success		1. Discontinue 2. 3. Project removed-not pursued
TI-59	Designate the pre-approved use of large parking areas out of the flood risk areas, where residents who live in flood zones can park and be assured their vehicles will not be ticketed or towed.	Flood, Hurricane, Nor'Easter, Severe Storm	- - -		No Progress	Cost Level of Protection Damages Avoided; Evidence of Success		1. Discontinue 2. 3. Discontinued- not pursued
TI-60	Implement measures to	Drought,	SC Dept of		Ongoing capability	Cost		1. Discontinue



	protect vulnerable populations by maintaining and expanding health care services in the post-disaster context.	Earthquake, Flood, Hurricane, Nor'Easter, Severe Storm, Wildfire, Winter Storm	Health			Level of Protection		2. 3. Ongoing Capability
TI-61	Identify a series of incentives for residents to build resiliency into their homes in risk areas.	Coastal Erosion, Earthquake, Expansive Soils, Flood, Groundwater Contam, Hurricane, Infestation, Nor'Easter, Severe Storm, Shallow GW, Wildfire, Winter Storm	- - - -		Complete.	Cost		1. Discontinue 2. 3. Complete
TI-62	Study and prepare a long-term capital improvement program focused on drainage, that incorporates the entire "green" infrastructure and "gray" infrastructure systems, to establish the blueprints for significant long-term drainage improvement investments.	Coastal Erosion, Flood, Groundwater Contam, Hurricane, Nor'Easter, Severe Storm, Shallow GW	- - -		Complete. Drainage study performed by PW Grosser. Oversight by TOI Engineering	Level of Protection		1. Discontinue 2. 3. Complete
TI-63 (NY Rising West Islip-2)	Implement flood-proofing measures to electrical controls, and install backup power, for two drainage pump stations in the Sequams neighborhood (Eaton Lane and Sequams Center lane)	Flood, Hurricane, Nor'Easter, Severe Storm	NY Rising Community Reconstruction Program		No Progress	Damages Avoided; Evidence of Success		1. Include in 2020 HMP 2. 3.
TI-64 (NY Rising West)	Rehabilitate Willetts Creek to relieve flooding that occurs due to siltation, debris, and other blockages of the creek corridor and underground culverts.	Coastal Erosion, Expansive Soils, Flood, Hurricane, Nor'Easter, Severe Storm, Shallow GW,	NY Rising Community Reconstruction Program		In Progress	Cost		1. Include in 2020 HMP 2. 3.



Islip-31)		Winter Storm						
TI-65 (NY Rising West Islip-4)	Retrofit West Islip Marina and the beach's current pavilion with resilient design features to withstand future storm events, including elevation of the structure, raising electrical outlets, and adding wind-resistant windows and shutters.	Coastal Erosion, Flood, Hurricane, Nor'Easter, Severe Storm	NY Rising Community Reconstruction Program		No Progress	Cost		1. Include in 2020 HMP 2. 3.
						Level of Protection		
						Damages Avoided; Evidence of Success		
TI-66	Install surveillance cameras and security gates critical facilities.	Earthquake, Flood, Hurricane, Nor'Easter, Severe Storm, Wildfire, Winter Storm	-	-	In Progress. Security cameras have been installed at a number of locations throughout the township.	Cost		1. Discontinue 2. 3. No longer a priority
						Level of Protection		
						Damages Avoided; Evidence of Success		
TI-67	Sandy HMGP LOI #1846 - Install an alternate source of power for the Bayshore Fire Department station.	Earthquake, Flood, Hurricane, Nor'Easter, Severe Storm, Shallow GW, Wildfire, Winter Storm	Bayshore Fire District: Heather Duffy, Grants Associate		Complete, Generator installed and tested	Cost		1. Discontinue 2. 3. Complete
						Level of Protection		
						Damages Avoided; Evidence of Success		
TI-68	Work with County and PSEG (formerly LIPA) to identify roads within the municipality that are considered "critical", and to be the first priority for clearing after an event involving downed power lines.	Severe Storm; Severe Winter Storm; Hurricane; Nor'Easter	PSEG, County		Complete	Cost		1. Discontinue 2. 3. Complete
						Level of Protection		
						Damages Avoided; Evidence of Success		
						Level of Protection		



Completed Mitigation Initiatives Not Identified in the Previous Mitigation Strategy

The Town of Islip has identified the following mitigation projects/activities that have also been completed but were not identified in the previous mitigation strategy in the 2014 HMP:

- None identified

Proposed Hazard Mitigation Initiatives for the HMP Update

The Town of Islip participated in a mitigation action workshop in June 2020 and was provided the following FEMA publications to use as a resource as part of their comprehensive review of all possible activities and mitigation measures to address their hazards: FEMA 551 ‘Selecting Appropriate Mitigation Measures for Floodprone Structures’ (March 2007) and FEMA ‘Mitigation Ideas – A Resource for Reducing Risk to Natural Hazards’ (January 2013).

Table 9.23-15 summarizes the comprehensive-range of specific mitigation initiatives the Town of Islip would like to pursue in the future to reduce the effects of hazards. Some of these initiatives may be previous actions carried forward for this plan update. These initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table below to further demonstrate the wide-range of activities and mitigation measures selected.

As discussed in Section 6 (Mitigation Strategy), fourteen criteria are used to evaluate and prioritize each proposed mitigation action. A numeric factor is assigned (-1, 0, or 1) to each criterion to provide a relative indication of the opportunities and constraints of each action. A numerical sum of the input provides the basis of the prioritization of actions wherein each action is assigned a category of Low, Medium, or High to indicate an implementation hierarchy. A High priority action indicates the jurisdiction will prioritize its implementation and apply for funding, if needed, as opportunities become available during the plan period of performance. This does not prevent the jurisdiction from implementing other ranked actions; however, this provides a snapshot of implementation priority at the time of this plan update.

Table 9.23-16 provides a summary of the evaluation and prioritization for each proposed mitigation initiative. Refer to the action worksheets at the end of this annex for more details on the high-ranked hazards identified first for implementation.



Table 9.23-15. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2020-Islip-001	Emergency Communications Upgrades	1, 7	All Hazards	<p>Problem: Emergency services and critical facilities require upgraded equipment to ensure communications during hazard events.</p> <p>Solution: Purchase and install digital interoperable radios at all sites for all DEC site supervisors, foremen, inspectors, collection drivers and administrative personnel. Provide microwave links for emergency management.</p>	Yes	None	Within 2 years	Public Safety	High	Emergency communications maintained	HMGP, Town budget	Medium	SIP	ES
2020-Islip-002	Town Hall West Retrofit	1, 2, 7	All Hazards	<p>Problem: Town Hall West requires retrofit in order to be utilized for emergency response and sheltering.</p> <p>Solution: Harden of Town Hall West by employing measures that would reinforce necessary staging for a disaster recovery center, communication and public gathering centers, personnel and shelter staging areas</p>	Yes	None	Within 2 years	Public Works, Public Safety	\$650,000	Critical facility protected and capabilities expanded	HMGP, BRIC, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, Town Budget	High	SIP	PP
2020-Islip-003	Backup Power for Critical Facilities	1, 2, 7	All Hazards	<p>Problem: Backup power sources are necessary to maintain critical services for critical facilities. Numerous facilities in the Town with critical services lack a permanent power source.</p> <p>Solution: Install back-up power generators at the following critical facilities:</p> <ul style="list-style-type: none"> • Town Hall • Scale house at the Hauppauge Landfill. • Office at the Hauppauge Landfill. • Maintenance shop at the 	Yes	None	1 year	Public Safety, Engineer, Long Island MacArthur Airport	Roughly \$50,000 per generator	Supports continuity of operations at critical facilities	FEMA HMGP and PDM, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, Town Budget	High	SIP	ES



Table 9.23-15. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
Hauppauge Landfill.														
2020-Islip-004	Raise Low-Lying Roadways	1, 2	Coastal Erosion, Flood, Hurricane, Nor'Easter, Severe Storm	<p>Problem: Low lying roadways are prone to flooding, limiting access and emergency response. The following roadways are low lying: Shore Drive, Canal, Twin River Road, Sequams Lane West, Eaton Lane, Ocean Avenue, Maple Avenue, and Sable Lands End.</p> <p>Solution: The Town will raise the elevation of the identified roadways.</p>	No	None	Within 5 years	Town Administration, DASNY	High	Reduced flood risk, increased access and emergency response	NY Rising Community Reconstruction Program	High	SIP	PP
2020-Islip-005	Roadway Stormwater Upgrades	1, 2	Coastal Erosion, Flood, Hurricane, Nor'Easter, Severe Storm, Shallow GW, Winter Storm	<p>Problem: Numerous roadways in the Town have stormwater flooding issues. These issues are identified as they occur.</p> <p>Solution: The Town will assess and prioritize options to improve drainage along roadways, and implement as funding becomes available.</p> <p>Solution: Develop a tertiary level wastewater treatment system.</p>	No	None	Within 5 years	Highway Department	High	Reduction in stormwater flooding	HMGP, PDM, BRIC, NYS DOT, Town budget	High	SIP	SP
2020-Islip-006	Sequams Lane West Pump Station	1, 2	Flood, Severe Storm	<p>Problem: A new pump station is needed at Sequams Lane West.</p> <p>Solution: Construct new pump station with backup power.</p>	Yes	None	2 years	Public Works	\$3 million	Increased capacity of system	HMGP, BRIC, Town budget	High	SIP	SP
2020-Islip-007	Willetts Creek Rehabilitation	1, 2, 4, 5	Coastal Erosion, Expansive Soils, Flood, Hurricane, Nor'Easter, Severe Storm,	<p>Problem: Willetts Creek experiences flooding that due to siltation, debris, and other blockages of the creek corridor and underground culverts.</p> <p>Solution: Rehabilitate Willetts Creek to relieve flooding through debris removal and desilting. Identify other creeks that have similar needs and</p>	No	May require permitting	Within 5 years	NY Rising Community Reconstruction Program	High	Reduction in flooding, restoration of creek	HMGP, Town budget	High	NSP	NR, SP



Table 9.23-15. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
			Shallow GW, Winter Storm	complete similar rehabilitation.										
2020-Islip-008	West Islip Marina Retrofit	1, 2, 7	Coastal Erosion, Flood, Hurricane, Nor'Easter, Severe Storm	<p>Problem: West Islip Marina and the beach pavilion at 100 Beach Dr., West Islip NY are prone to damages during storm events.</p> <p>Solution: Retrofit West Islip Marina and the beach's current pavilion with resilient design features to withstand future storm events, including elevation of the structure, raising electrical outlets, and adding wind-resistant windows and shutters.</p>	No	None	Within 2 years	NY Rising Community Reconstruction Program	\$100,000	Facility protected from storm damages	HMGP, BRIC, Town budget	High	SIP	PP
2020-Islip-009	Critical Facility Security	7	Cyber Security	<p>Problem: Critical facilities require increased security to prevent tampering.</p> <p>Solution: Continue installation of surveillance cameras and security gates at critical facilities.</p>	Yes	None	Within 2 years	OEM	Low	Critical facilities secured	HMGP,	High	SIP	PP
2020-Islip-010	Repetitive Loss Mitigation	1, 2	Flood; Severe Storm; Shallow Groundwater	<p>Problem: Frequent flooding events have resulted in damages to residential properties in the West Islip (east of Robert Moses Causeway), Beach Street, and south of Montauk Highway neighborhoods. These properties have been repetitively flooded as documented by paid NFIP claims.</p> <p>Solution: Conduct outreach to 30 flood-prone property owners, including RL/SRL property owners and provide information on mitigation alternatives. After preferred mitigation measures are identified, collect required property-owner information and develop a FEMA grant application and BCA to obtain funding to implement</p>	No	None	3 years	NFIP Floodplain Administrator, supported by homeowners; Land Acquisition Department	\$3 Million	Eliminates flood damage to homes and residents, creates open space for the municipality increasing flood storage.	FEMA HMGP and FMA, local cost share by residents	High	SIP	PP



Table 9.23-15. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				acquisition/purchase/moving/elevating residential homes in the flood prone areas that experience frequent flooding (high risk areas).										
2020-Islip-011	Coastal Erosion Monitoring	1, 2, 3, 5	Coastal Erosion, Hurricane, Nor'Easter	<p>Problem: The Town has shoreline which could be exposed to coastal erosion.</p> <p>Solution: The Town will participate in a county led erosion monitoring program.</p>	No	None	Within 1 year	SCWD, Village Administration	Staff time	Identification of coastal erosion	Municipal budget	High	NSP	NR
2020-Islip-012	Develop Outreach Program for Disease Outbreak	6	Disease Outbreak	<p>Problem: Disease outbreak and other emerging hazards require robust public education.</p> <p>Solution: Develop and implement outreach program to educate the public.</p>	No	None	Within 6 months	Public Safety	\$15,000	Public educated about disease outbreak and other emerging hazards	Town budget	High	EAP	PI
2020-Islip-013	Critical Facility Disease Outbreak Protections	1, 2, 7, 8	Disease Outbreak	<p>Problem: Critical facilities need protections in place to allow critical staff to work during disease outbreak. The airport has installed air cleaning technologies which is currently being tested.</p> <p>Solution: Expand use of airport's technology to clean air at critical facilities, expand testing equipment and temperature scanning, and increase storage capabilities for PPE.</p>	Yes	None	Within 1 year	OEM	TBD	Reduced transmission of disease, continuity of service at critical facilities	HMGP, BRIC, Town budget	High	SIP	PP
2020-Islip-014	Roadway Ending Mitigation	1, 2	Coastal Erosion, Flood	<p>Problem: Studies such as the West Islip Drainage Study have looked at roadway endings, bulkheads, and outfall pipes to determine necessary upgrades to reduce flooding. Adjacent homes are reliant on this infrastructure for access and protection from flood and erosion.</p> <p>Solution: Complete evaluation of 30 roadways that terminate at the bay. Install new bulkheads with check valves on outfalls and raise roadway</p>	No	Bulkheading may require permitting	Within 5 years	Highway Department	High	Roadway ends protected from storm damage, flooding reduced	HMGP, BRIC, Town budget	High	SIP	PP, SP



Table 9.23-15. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				elevation as necessary. Roughly 30 roads are anticipated to need these upgrades.										
2020-Islip-015	Backup Power and Flood Protection for Pump Stations	1, 2, 8	All hazards	<p>Problem: The following pump stations lack backup power and need to be elevated: Eaton Lane Sequams Lane Ocean Avenue Maple Avenue Sable Lands End</p> <p>Solution: Elevate pump stations and install backup power generators.</p>	Yes 💧	None	Within 2 years	Public Works	\$1 million	Pump stations protected from flooding and continuity of service established	HMGP, BRIC, GOSR, Town budget	High	SIP	PP, SP
2020-Islip-016	Raise building at Bayport Marina	1, 2, 7	All Hazards	<p>Problem: The Bayport Marina (located at 255 Paulanna Avenue Bayport, NY) bathroom and electric and first aid station is an all in one building. The Building is sinking and increasingly exposed to hazards.</p> <p>Solution: Raise or relocate the building containing the bathrooms, first aid station and electric room.</p>	Yes 💧	None	Within 2 years	Public Works	\$100,000	Building protected from damage and services maintained.	HMGP, BRIC, Town budget	High	SIP	PP
2020-Islip-017	Hardening of Town Hall	1, 2, 7	Flood, Hurricane, Nor'Easter, Severe Storm, Severe Winter Storm	<p>Problem: Town Hall at 655 Main Street in Islip, NY needs to be functional during a storm/emergency. The facility are in low lying coastal areas prone to flooding and wind damage</p> <p>Solution: The Town will replace windows, upgrade electric, new roof, implement flood mitigation measures, plumbing upgrades, install elevator and install flood doors at Town Hall.</p>	Yes	None	Within 2 years	Public Works	\$3.5M	Continuity of Government Operations, Mitigates the need for personnel and functions to devolve. Facilitates recovery	FEMA HMGP and BRIC, USDA Community Facilities Grant Program, Town budget	High	SIP	PP



Table 9.23-15. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2020-Islip-018	Various Facility Hardening for Emergency Support	1, 2, 7	Flood, Hurricane, Nor'Easter, Severe Storm, Severe Winter Storm	<p>Problem: Various facilities in the Town serve as sheltering locations and provide emergency services. These facilities are Ronkonkoma Pavillion (299 Rosevale Ave, Ronkonkoma NY), West Islip Senior Center (90 Higbie Lane, West Islip NY), and Islip Senior Center (555 Clayton St., Central Islip, NY). The buildings need to be functional during a storm/emergency to provide shelter for residents and employees with safety and a place to wait out the storm. These locations also include secured areas to facilitate the storage of emergency supplies.</p> <p>Solution: The Town will work to replace windows, upgrade electric, implore flood mitigation measures and make plumbing upgrades to prepare for future storms and emergencies which will be used for resident shelters in the event of an emergency.</p>	Yes	None	Within 2 years	Public Works	\$360,000	Sheltering and emergency services maintained	HMGP, BRIC, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, Town Budget	High	SIP	PP, ES
2020-Islip-019	Hardening of Highway Yards	2, 7	Flood, Hurricane, Nor'Easter, Severe Storm, Severe Winter Storm	<p>Problem: Highway yards need to be functional during a storm/emergency, for road clearing, emergency response, vehicle repair, etc. These yards are also fueling stations for Town vehicles and emergency vehicles (fire depts., EMS, School districts) throughout the Town of Islip.</p> <p>Solution: Replace doors, windows, strengthen roof, etc. at 3 highway yards:</p> <ul style="list-style-type: none"> • Bay Shore Highway Yard (145 2nd Ave, Bay Shore NY) • Central Islip Highway Yard (299 Carleton Ave, Central Islip NY) 	Yes	None	Within 2 years	Public Works	\$195,000	Continuity of Government Operations, Mitigates the need for personnel and functions to devolve. Facilitates recovery	HMGP, BRIC, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, Town Budget	High	SIP	PP



Table 9.23-15. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<ul style="list-style-type: none"> Sayville Highway Yard (1200 Lincoln Ave, Holbrook, NY) 										
2020-Islip-020	Road Raising and Flood Mitigation	1, 7	Flood, Severe Storm	<p>Problem: Recurring flooding due to the low elevation and high groundwater table, tidal cycles in combination with rain fall events cause periodic flooding onto the roadway and homes of the Islip low lying coastal community. The Town of Islip has 375 miles of roads in the flood plain that need to be elevated 4 feet over the next 80 years at an approximate cost of \$1 billion in order to allow for emergency responder access and egress and to ensure continuity of government services.</p> <p>Solution: Road raising, leaching basins, installing tide flex valves at the following roadways:</p> <ul style="list-style-type: none"> •Shore Dr, Oakdale NY, •Eaton Lane, West Islip NY, •South Court, Bay Shore NY, •Browns River Rd II, Bayport NY, •Browns, River Rd, Sayville NY, •River Rd, Sayville NY, •Bayview Ave, East Islip NY, •South Bay Ave, Islip NY, •Sequams Center, East & West, West Islip NY 	No	None	Within 2 years	Public Works	\$9.6M	Reduction in flooding	HMGP, BRIC, Town budget	High	SIP	PP
2020-Islip-021	Critical facility outreach	2, 6	Flood	<p>Problem: Numerous critical facilities are located in the 100-year floodplain. A large portion are not under the Town's jurisdiction.</p> <p>Solution: The FPA will conduct outreach to facility managers regarding flood risk and potential mitigation.</p>	Yes 💧	None	Within 6 months	FPA	Staff time	Facility managers aware of flood risk and potential mitigation	Town budget	High	EAP	PI



Notes:

Not all acronyms and abbreviations defined below are included in the table.

Acronyms and Abbreviations:

CAV	Community Assistance Visit
CRS	Community Rating System
DPW	Department of Public Works
EHP	Environmental Planning and Historic Preservation
FEMA	Federal Emergency Management Agency
FPA	Floodplain Administrator
HMA	Hazard Mitigation Assistance
N/A	Not applicable
NFIP	National Flood Insurance Program
OEM	Office of Emergency Management

Potential FEMA HMA Funding Sources:

FMA	Flood Mitigation Assistance Grant Program
HMGP	Hazard Mitigation Grant Program
PDM	Pre-Disaster Mitigation Grant Program

Timeline:

The time required for completion of the project upon implementation

Cost:

The estimated cost for implementation.

Benefits:

A description of the estimated benefits, either quantitative and/or qualitative.

Critical Facility:

Yes Critical Facility located in 1% floodplain

Mitigation Category:

- Local Plans and Regulations (LPR) – These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.
- Structure and Infrastructure Project (SIP) - These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct manmade structures to reduce the impact of hazards.
- Natural Systems Protection (NSP) – These are actions that minimize damage and losses, and also preserve or restore the functions of natural systems.
- Education and Awareness Programs (EAP) – These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities

CRS Category:

- Preventative Measures (PR) - Government, administrative or regulatory actions, or processes that influence the way land and buildings are developed and built. Examples include planning and zoning, floodplain local laws, capital improvement programs, open space preservation, and storm water management regulations.
- Property Protection (PP) - These actions include public activities to reduce hazard losses or actions that involve (1) modification of existing buildings or structures to protect them from a hazard or (2) removal of the structures from the hazard area. Examples include acquisition, elevation, relocation, structural retrofits, storm shutters, and shatter-resistant glass.
- Public Information (PI) - Actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. Such actions include outreach projects, real estate disclosure, hazard information centers, and educational programs for school-age children and adults.
- Natural Resource Protection (NR) - Actions that minimize hazard loss and also preserve or restore the functions of natural systems. These actions include sediment and erosion control, stream corridor restoration, watershed management, forest and vegetation management, and wetland restoration and preservation.
- Structural Flood Control Projects (SP) - Actions that involve the construction of structures to reduce the impact of a hazard. Such structures include dams, setback levees, floodwalls, retaining walls, and safe rooms.
- Emergency Services (ES) - Actions that protect people and property during and immediately following a disaster or hazard event. Services include warning systems, emergency response services, and the protection of essential facilities



Table 9.23-16. Summary of Prioritization of Actions

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
2020-Islip-001	Emergency Communications Upgrades	1	1	1	1	1	1	0	1	1	1	1	1	1	1	13	High
2020-Islip-002	Town Hall West Retrofit	1	1	1	1	1	1	0	1	1	1	1	1	1	1	13	High
2020-Islip-003	Backup Power for Critical Facilities	1	1	1	1	1	1	0	1	1	1	1	1	1	1	13	High
2020-Islip-004	Raise Low-Lying Roadways	1	1	1	1	1	1	1	1	1	1	1	0	1	1	13	High
2020-Islip-005	Roadway Stormwater Upgrades	0	1	1	1	0	1	0	1	1	1	1	1	1	1	11	High
2020-Islip-006	Sequams Lane West Pump Station	0	1	1	1	0	1	0	1	1	1	1	1	1	1	11	High
2020-Islip-007	Willetts Creek Rehabilitation	0	1	0	1	1	0	0	1	1	1	1	0	1	1	9	High
2020-Islip-008	West Islip Marina Retrofit	1	1	1	1	1	1	0	1	1	1	1	1	1	1	13	High
2020-Islip-009	Critical Facility Security	1	1	0	1	1	0	0	1	1	1	0	1	1	1	10	High
2020-Islip-010	Repetitive Loss Mitigation	1	1	1	1	1	1	0	1	0	0	1	0	1	1	10	High
2020-Islip-011	Coastal Erosion Monitoring	0	1	1	1	1	1	1	1	1	1	0	1	1	1	12	High
2020-Islip-012	Develop Outreach Program for Disease Outbreak	1	0	1	1	1	1	1	1	1	1	0	1	1	1	12	High
2020-Islip-013	Critical Facility Disease Outbreak Protections	1	0	0	0	1	1	0	1	1	1	0	1	1	1	9	High
2020-Islip-014	Roadway Ending Mitigation	0	1	1	1	1	1	0	1	1	1	1	0	1	1	11	High
2020-Islip-015	Backup Power and Flood Protection for Pump Stations	0	1	1	1	0	1	0	1	1	1	1	1	1	1	11	High
2020-Islip-016	Raise building at Bayport Marina	1	1	1	1	1	1	0	1	1	1	1	1	1	1	13	High
2020-Islip-017	Hardening of Town Hall	1	1	1	1	1	1	0	1	1	1	1	1	1	1	13	High
2020-Islip-018	Various Facility Hardening for	1	1	1	1	1	1	0	1	1	1	1	1	1	1	13	High



Table 9.23-16. Summary of Prioritization of Actions

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
	Emergency Support																
2020-Islip-019	Hardening of Highway Yards	1	1	1	1	1	1	0	1	1	1	1	1	1	1	13	High
2020-Islip-020	Road Raising and Flood Mitigation	1	1	1	1	1	1	0	1	1	1	1	1	1	1	13	High
2020-Islip-021	Critical facility outreach	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	High

Note: Refer to Section 6, which conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).





9.23.11 Proposed Mitigation Action Types

The table below indicates the range of proposed mitigation action categories.

Table 9.23-17. Analysis of Mitigation Actions by Hazard and Category

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Coastal Erosion		2020-Islip-001, 2020-Islip-002, 2020-Islip-003, 2020-Islip-004, 2020-Islip-008, 2020-Islip-014, 2020-Islip-015, 2020-Islip-016	2020-Islip-007, 2020-Islip-011			2020-Islip-002, 2020-Islip-004, 2020-Islip-008, 2020-Islip-014, 2020-Islip-015, 2020-Islip-016		2020-Islip-007, 2020-Islip-011	2020-Islip-005, 2020-Islip-007, 2020-Islip-014, 2020-Islip-015	2020-Islip-001, 2020-Islip-003,
Cyber Security		2020-Islip-001, 2020-Islip-002, 2020-Islip-003, 2020-Islip-009, 2020-Islip-015, 2020-Islip-016				2020-Islip-002, 2020-Islip-009, 2020-Islip-015, 2020-Islip-016			2020-Islip-015	2020-Islip-001, 2020-Islip-003,
Disease Outbreak		2020-Islip-001, 2020-Islip-002, 2020-Islip-003, 2020-Islip-		2020-Islip-012		2020-Islip-002, 2020-Islip-013, 2020-Islip-015, 2020-Islip-	2020-Islip-012		2020-Islip-015	2020-Islip-001, 2020-Islip-003,



Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
		013, 2020-Islip-015, 2020-Islip-016				016				
Drought		2020-Islip-001, 2020-Islip-002, 2020-Islip-003, 2020-Islip-015, 2020-Islip-016				2020-Islip-002, 2020-Islip-015, 2020-Islip-016			2020-Islip-015	2020-Islip-001, 2020-Islip-003,
Earthquake		2020-Islip-001, 2020-Islip-002, 2020-Islip-003, 2020-Islip-015, 2020-Islip-016				2020-Islip-002, 2020-Islip-015, 2020-Islip-016			2020-Islip-015	2020-Islip-001, 2020-Islip-003,
Expansive Soils		2020-Islip-001, 2020-Islip-002, 2020-Islip-003, 2020-Islip-015, 2020-Islip-016	2020-Islip-007,			2020-Islip-002, 2020-Islip-015, 2020-Islip-016		2020-Islip-007,	2020-Islip-007, 2020-Islip-015	2020-Islip-001, 2020-Islip-003,
Extreme Temperature		2020-Islip-001, 2020-Islip-002, 2020-Islip-				2020-Islip-002, 2020-Islip-015, 2020-Islip-			2020-Islip-015	2020-Islip-001, 2020-Islip-003,



Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
		003, 2020-Islip-015, 2020-Islip-016				016				
Flood		2020-Islip-001, 2020-Islip-002, 2020-Islip-003, 2020-Islip-004, 2020-Islip-005, 2020-Islip-006, 2020-Islip-008, 2020-Islip-010, 2020-Islip-014, 2020-Islip-015, 2020-Islip-016, 2020-Islip-017, 2020-Islip-018, 2020-Islip-019, 2020-Islip-020	2020-Islip-007,	2020-Islip-021		2020-Islip-002, 2020-Islip-004, , 2020-Islip-008, 2020-Islip-010, 2020-Islip-014, 2020-Islip-015, 2020-Islip-016, 2020-Islip-017, 2020-Islip-018, 2020-Islip-019, 2020-Islip-020	2020-Islip-021	2020-Islip-007,	2020-Islip-005, 2020-Islip-006, 2020-Islip-007, 2020-Islip-014, 2020-Islip-015	2020-Islip-001, 2020-Islip-003, 2020-Islip-018
Groundwater Contamination		2020-Islip-001, 2020-Islip-002, 2020-Islip-				2020-Islip-002, , 2020-Islip-015, 2020-Islip-			2020-Islip-015	2020-Islip-001, 2020-Islip-003,



Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
		003, , 2020- Islip- 015, 2020- Islip- 016				016				
Hurricane		2020- Islip- 001, 2020- Islip- 002, 2020- Islip- 003, 2020- Islip- 004, 2020- Islip- 005, 2020- Islip- 008, 2020- Islip- 015, 2020- Islip- 016, 2020- Islip- 017, 2020- Islip- 018, 2020- Islip- 019	2020- Islip- 007, 2020- Islip- 011			2020- Islip- 002, , 2020- Islip- 004, 2020- Islip- 008, 2020- Islip- 015, 2020- Islip- 016, 2020- Islip- 017, 2020- Islip- 018, 2020- Islip- 019		2020- Islip- 007, 2020- Islip- 011	2020-Islip-005, 2020-Islip-007, 2020-Islip-015	2020-Islip-001, 2020-Islip-003, 2020-Islip-018
Infestation and Invasive Species		2020- Islip- 001, 2020- Islip- 002, 2020- Islip- 003, 2020- Islip- 015, 2020- Islip- 016				2020- Islip- 002, 2020- Islip- 015, 2020- Islip- 016			2020-Islip-015	2020-Islip-001, 2020-Islip-003,
Nor'easter		2020- Islip- 001, 2020- Islip-	2020- Islip- 007, 2020- Islip-			2020- Islip- 002, 2020- Islip-		2020- Islip- 007, 2020- Islip-	2020-Islip-005, 2020-Islip-007, 2020-Islip-015	2020-Islip-001, 2020-Islip-003, 2020-Islip-018



Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
		002, 2020- Islip- 003, , 2020- Islip- 004, 2020- Islip- 005, 2020- Islip- 008, 2020- Islip- 015, 2020- Islip- 016, 2020- Islip- 017, 2020- Islip- 018, 2020- Islip- 019	011			008, 2020- Islip- 004, 2020- Islip- 008, 2020- Islip- 015, 2020- Islip- 016, 2020- Islip- 017, 2020- Islip- 019		011		
Severe Storm		2020- Islip- 001, 2020- Islip- 002, 2020- Islip- 003, 2020- Islip- 004, 2020- Islip- 005, 2020- Islip- 006, 2020- Islip- 008, 2020- Islip- 010, 2020- Islip- 015, 2020- Islip- 016, 2020- Islip-	2020- Islip- 007,			2020- Islip- 002, 2020- Islip- 008, 2020- Islip- 010, 2020- Islip- 015, 2020- Islip- 016, 2020- Islip- 017, 2020- Islip- 018, 2020- Islip- 019, 2020- Islip-		2020- Islip- 007,	2020-Islip-005, 2020-Islip-006, 2020-Islip-007, 2020-Islip-015	2020-Islip-001, 2020-Islip-003, 2020-Islip-018



Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
		017, 2020-Islip-018, 2020-Islip-019, 2020-Islip-020				020				
Severe Winter Storm		2020-Islip-001, 2020-Islip-002, 2020-Islip-003, 2020-Islip-005, 2020-Islip-015, 2020-Islip-016, 2020-Islip-017, 2020-Islip-018, 2020-Islip-019	2020-Islip-007,			2020-Islip-002, 2020-Islip-015, 2020-Islip-016, 2020-Islip-017, 2020-Islip-018, 2020-Islip-019		2020-Islip-007,	2020-Islip-005, 2020-Islip-007, 2020-Islip-015	2020-Islip-001, 2020-Islip-003, 2020-Islip-018
Shallow Groundwater		2020-Islip-001, 2020-Islip-002, 2020-Islip-003, 2020-Islip-005, 2020-Islip-010, 2020-Islip-015, 2020-Islip-016	2020-Islip-007,			2020-Islip-002, 2020-Islip-010, 2020-Islip-015, 2020-Islip-016		2020-Islip-007,	2020-Islip-005, 2020-Islip-007, 2020-Islip-015	2020-Islip-001, 2020-Islip-003,



Hazard	FEMA				CRS						
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES	
Wildfire		2020-Islip-001, 2020-Islip-002, 2020-Islip-003, 2020-Islip-015, 2020-Islip-016				2020-Islip-002, 2020-Islip-015, 2020-Islip-016			2020-Islip-015	2020-Islip-001, 2020-Islip-003,	

Note: Section 6 (Mitigation Strategy) provides for an explanation of the mitigation categories.

9.23.12 Staff and Local Stakeholder Involvement in Annex Development

The Town of Islip followed the planning process described in Section 3 (Planning Process) in Volume I of this plan update. This annex was developed over the course of several months with input from many Town departments, including: OEM/Public Safety, Public Works, Parks & Recreation, Highway, and Planning Departments. Comm. Anthony D’Amico represented the community on the Suffolk County Hazard Mitigation Plan Planning Partnership, Steering Committee, and supported the local planning process requirements by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

The following table summarizes who participated and in what capacity. Additional documentation on the municipality’s planning process through Planning Partnership meetings is included in Section 3 (Planning Process) and Appendix C (Meeting Documentation).

Table 9.23-18. Contributors to the Annex

Name	Title/Entity	Method of Participation
Bob Iberger	Assistant Town Emergency Preparedness Coordinator, OEM, Public Safety	Alternate Point of Contact, attended plan participant meetings, provided impact data, contributed to mitigation strategy
Anne Mendes	Associate Administrator, OEM, Public Safety	Primary Point of Contact, attended plan participant meetings, provided impact data, contributed to mitigation strategy
Carolyn Lucas	Account Clerk, DPW	Attended plan participant meetings, provided impact data, contributed to mitigation strategy
Tara Hendricks	Secretary to Commissioner, Parks & Recreation	Attended plan participant meetings, provided impact data, contributed to mitigation strategy
Ron Meyer	Commissioner, Planning & Development	Attended plan participant meetings, provided impact data, contributed to mitigation strategy
Anthony Prudenti	Chief Deputy Commissioner, Public Safety	Attended plan participant meetings, provided impact data, contributed to mitigation strategy
John Hillenbrand	Highway Labor Crew Leader, DPW	Attended plan participant meetings, provided impact data, contributed to mitigation strategy
Robert Chirillo	GIS Technician, Planning & Development	Attended plan participant meetings, provided impact data, contributed to mitigation strategy
Martin Bellew	Commissioner, DEC	Attended plan participant meetings, provided impact data,



Name	Title/Entity	Method of Participation
		contributed to mitigation strategy
Kevin Cassidy	Maintenance Mechanic V, DPW	Attended plan participant meetings, provided impact data, contributed to mitigation strategy
Paul Maggiore	Highway Project Inspector, DPW	Attended plan participant meetings, provided impact data, contributed to mitigation strategy
Jonathan Stoker	Management Analyst, Parks & Recreation	Attended plan participant meetings, provided impact data, contributed to mitigation strategy
Chris Poelker	Town Engineer, Planning & Development	Attended plan participant meetings, provided impact data, contributed to mitigation strategy
Anthony J. D'Amico	Commissioner, Public Safety Enforcement	Steering Committee member, attended plan participant meetings, provided impact data, contributed to mitigation strategy

9.23.13 Hazard Area Extent and Location

Hazard area extent and location maps have been generated for the Town of Islip that illustrate the probable areas that may be impacted within the municipality. These maps are based on the best available data at the time of the preparation of this plan and are considered to be adequate for planning purposes. The maps have only been generated for those hazards that can be clearly identified using mapping techniques and technologies, and for which the Town of Islip has significant exposure.

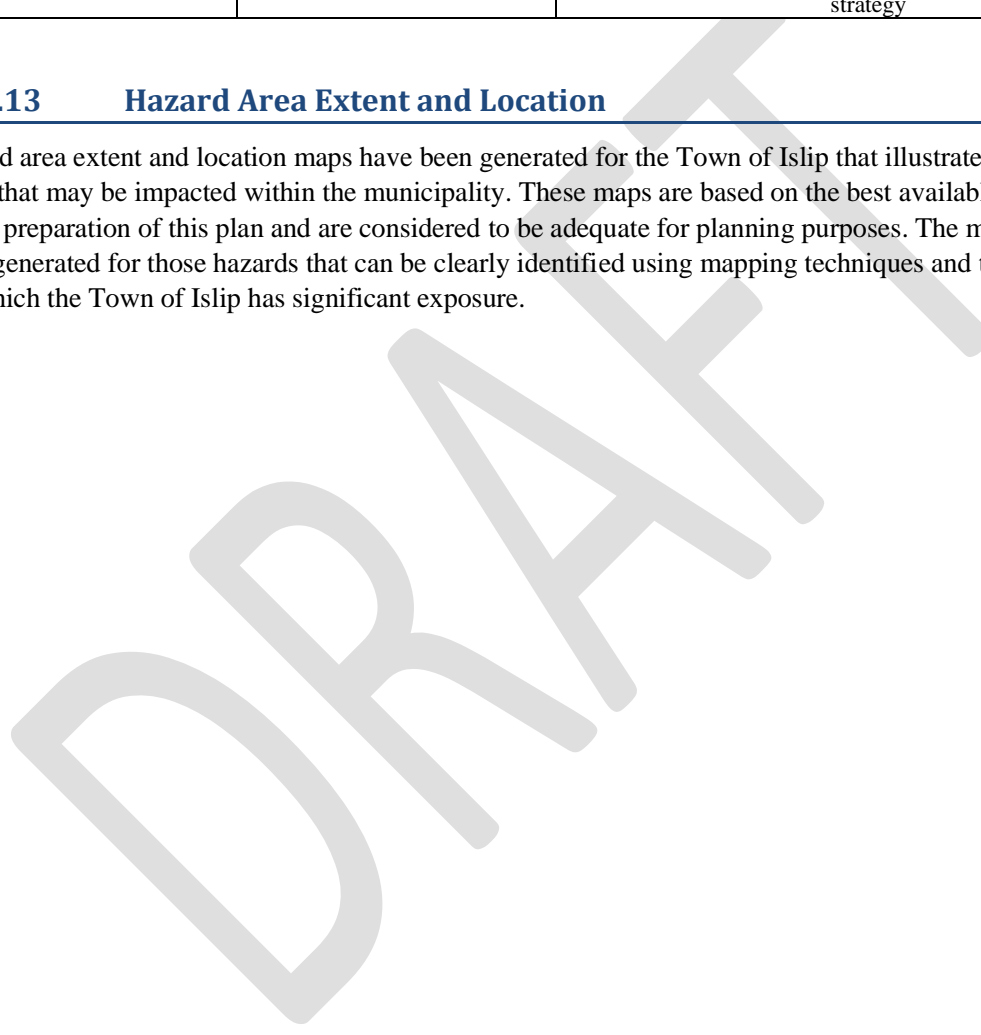




Figure 9.23-1. Town of Islip Hazard Area Extent and Location Map 1

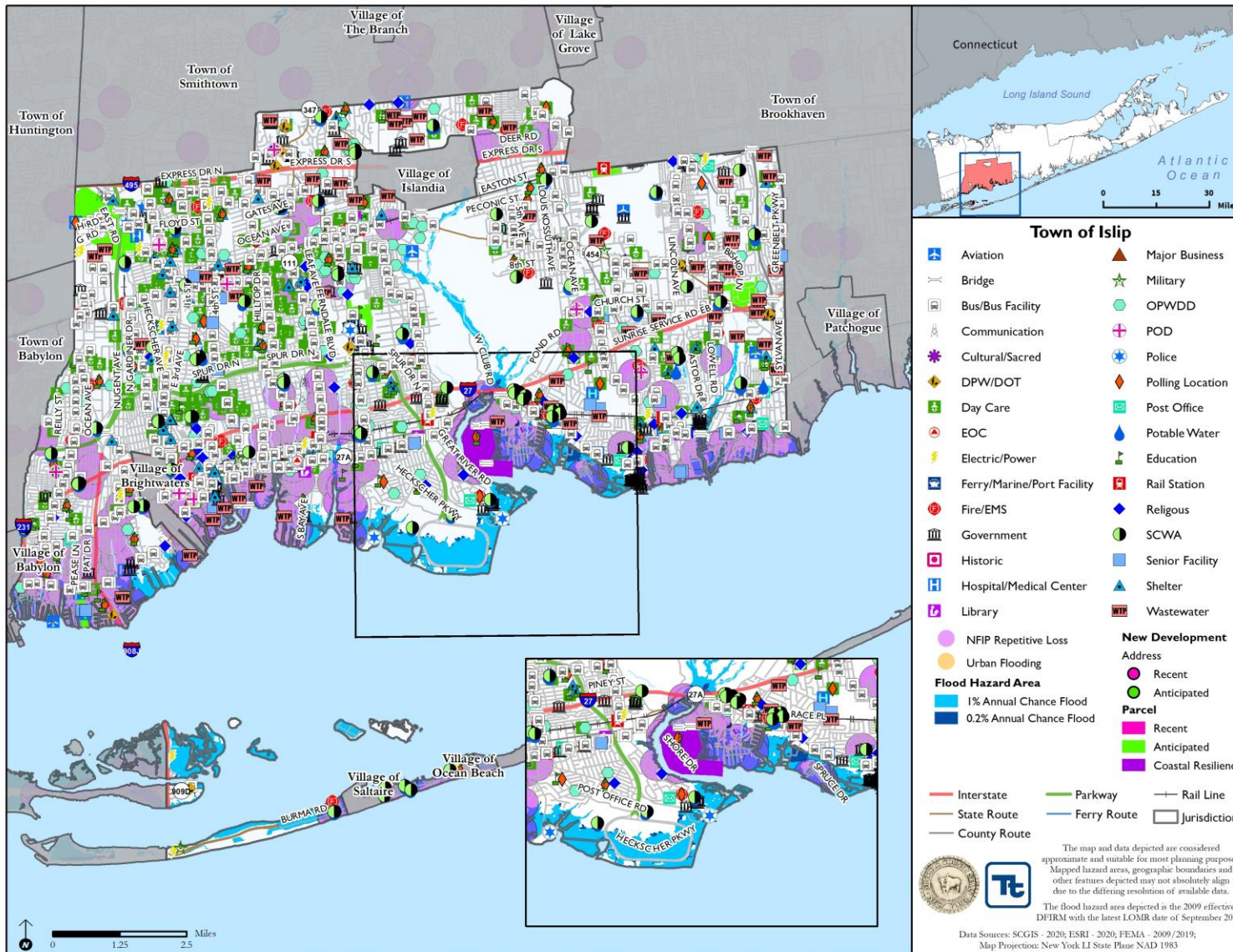




Figure 9.23-2. Town of Islip Hazard Area Extent and Location Map 2

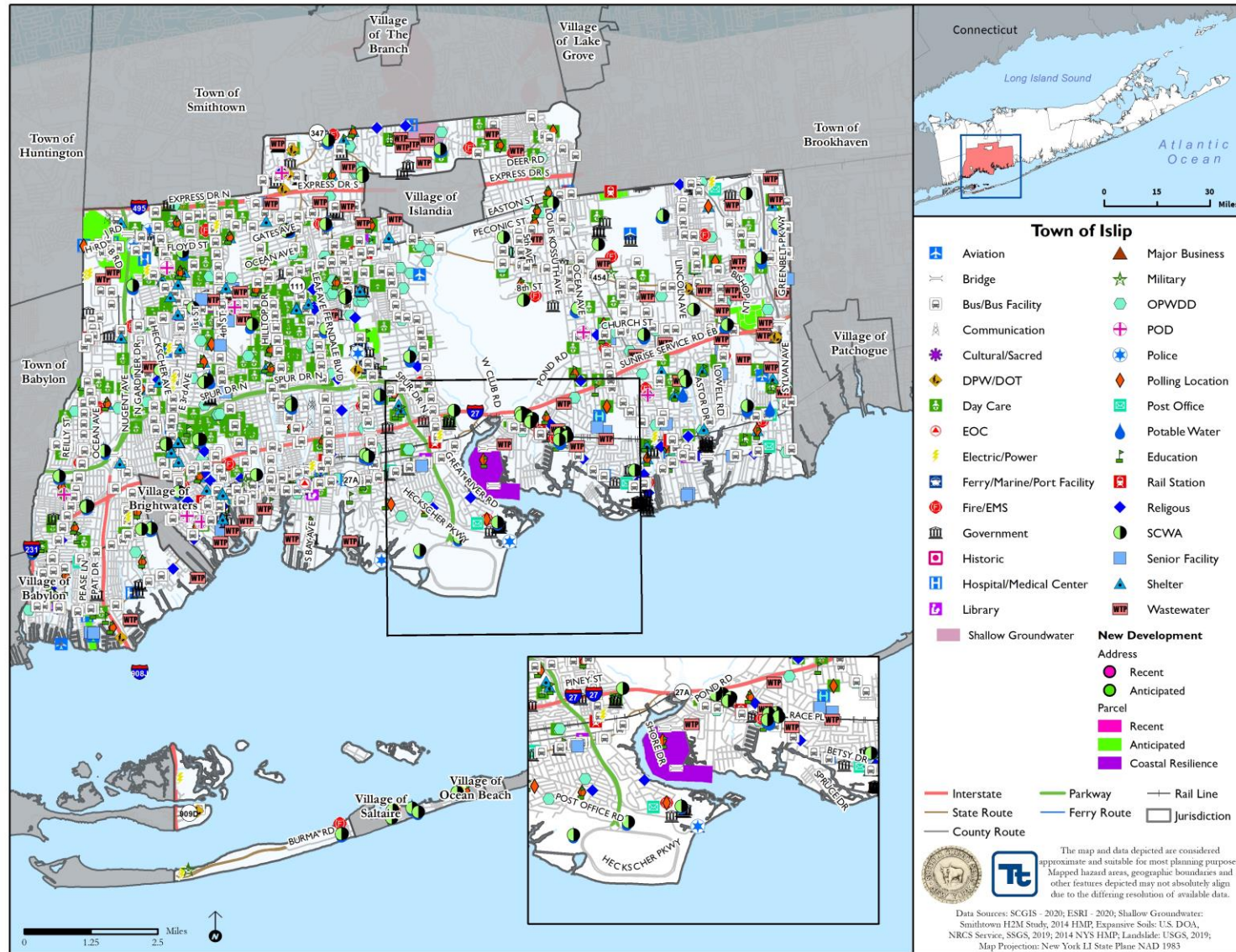




Figure 9.23-3. Town of Islip Hazard Area Extent and Location Map 3

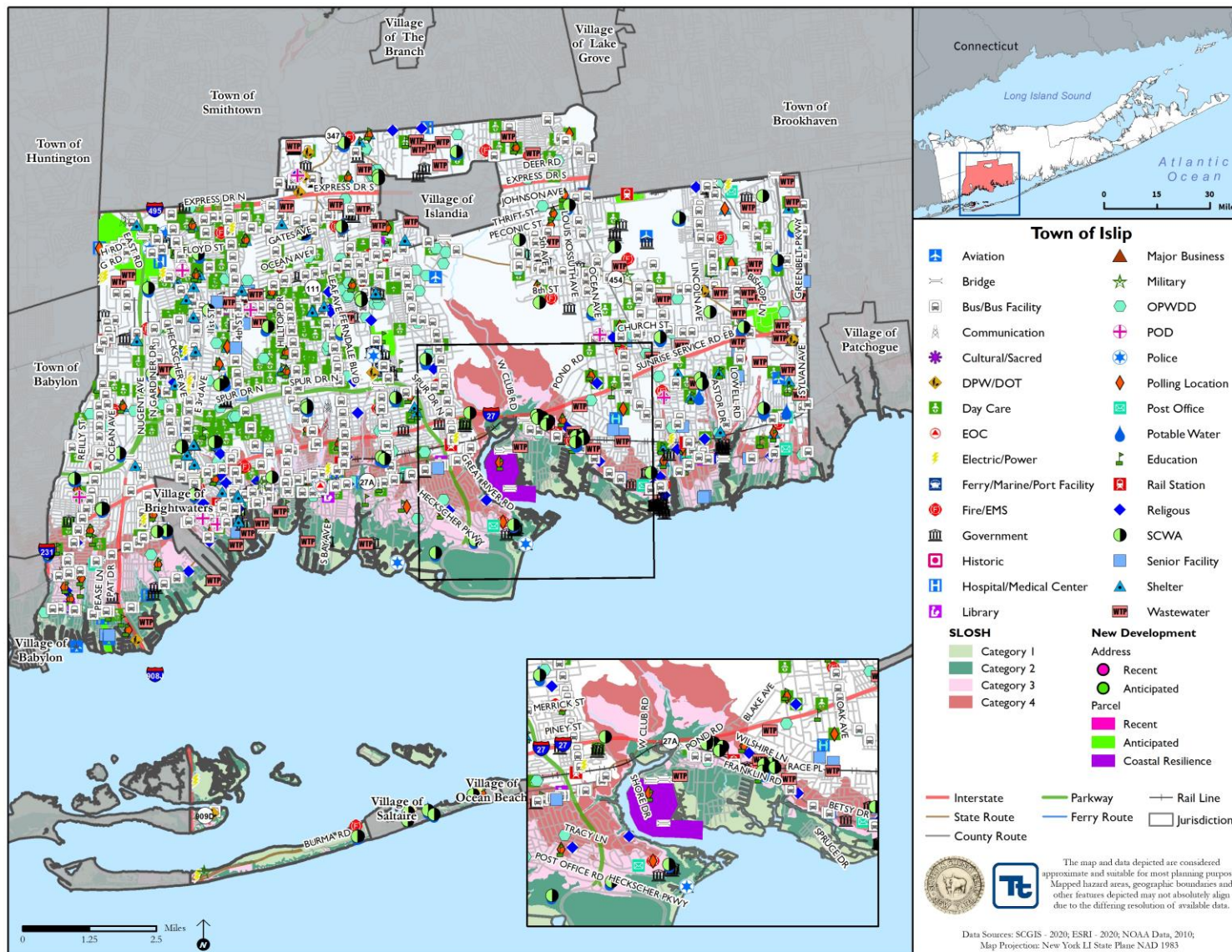




Figure 9.23-4. Town of Islip Hazard Area Extent and Location Map 4

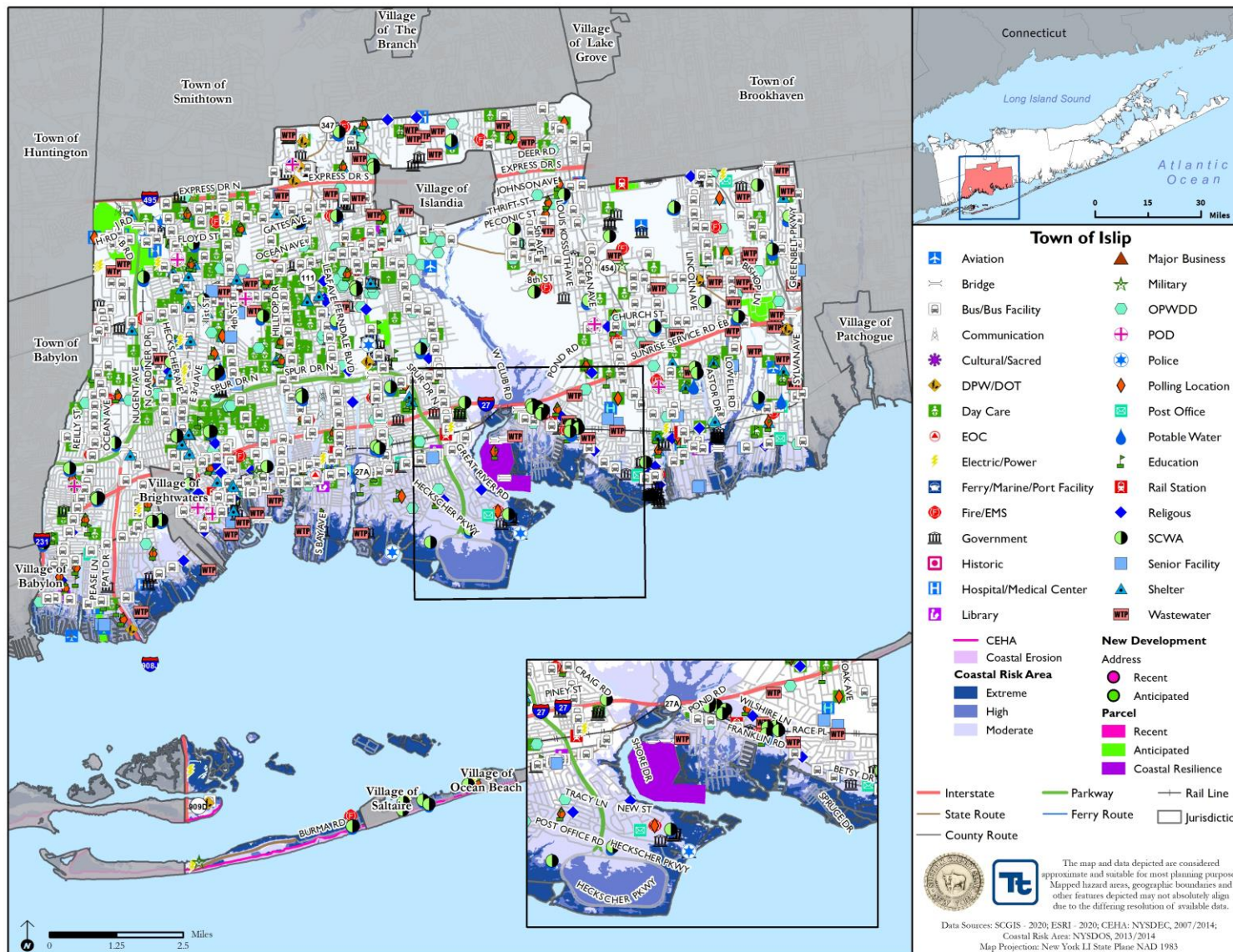




Figure 9.23-5. Town of Islip Hazard Area Extent and Location Map 5

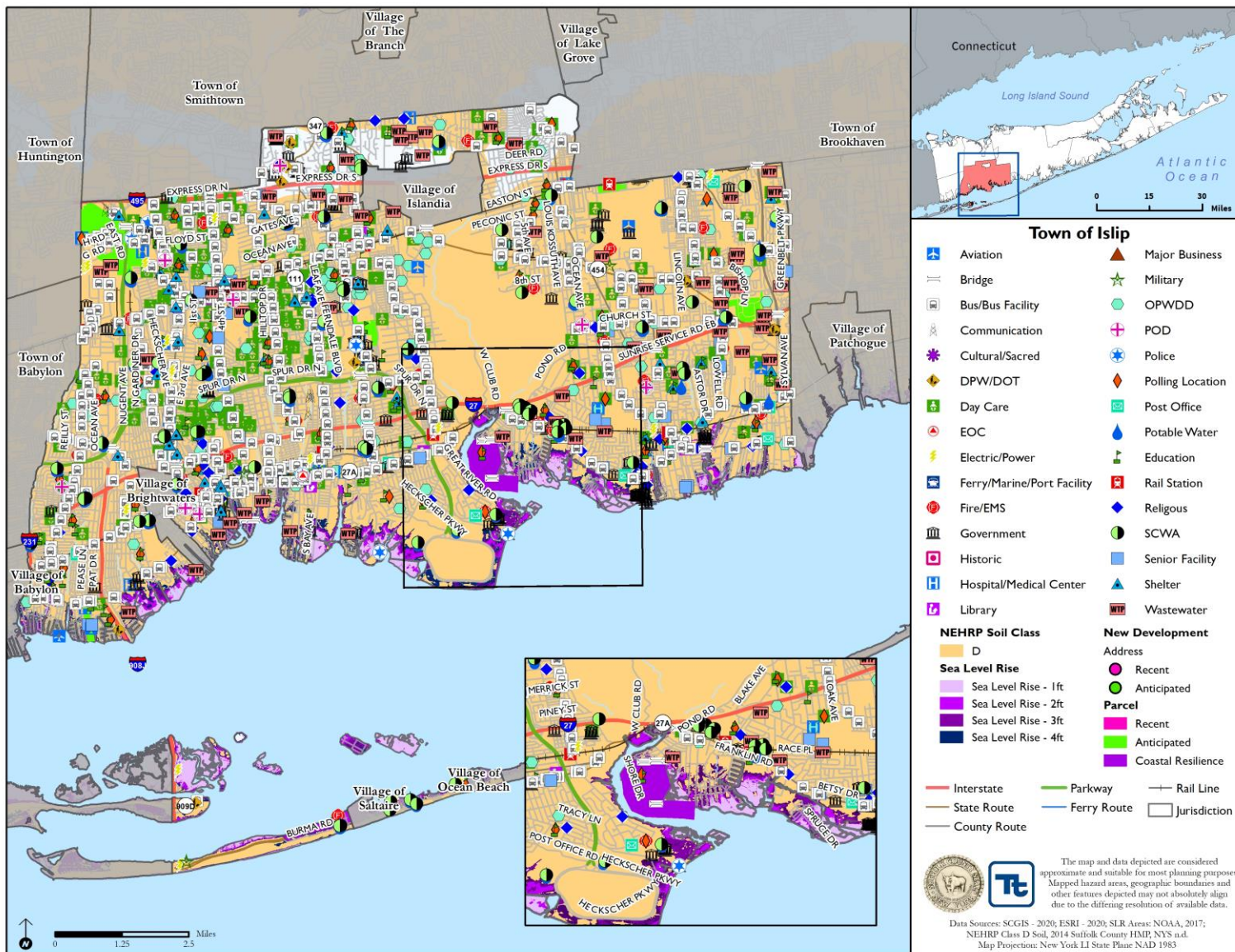
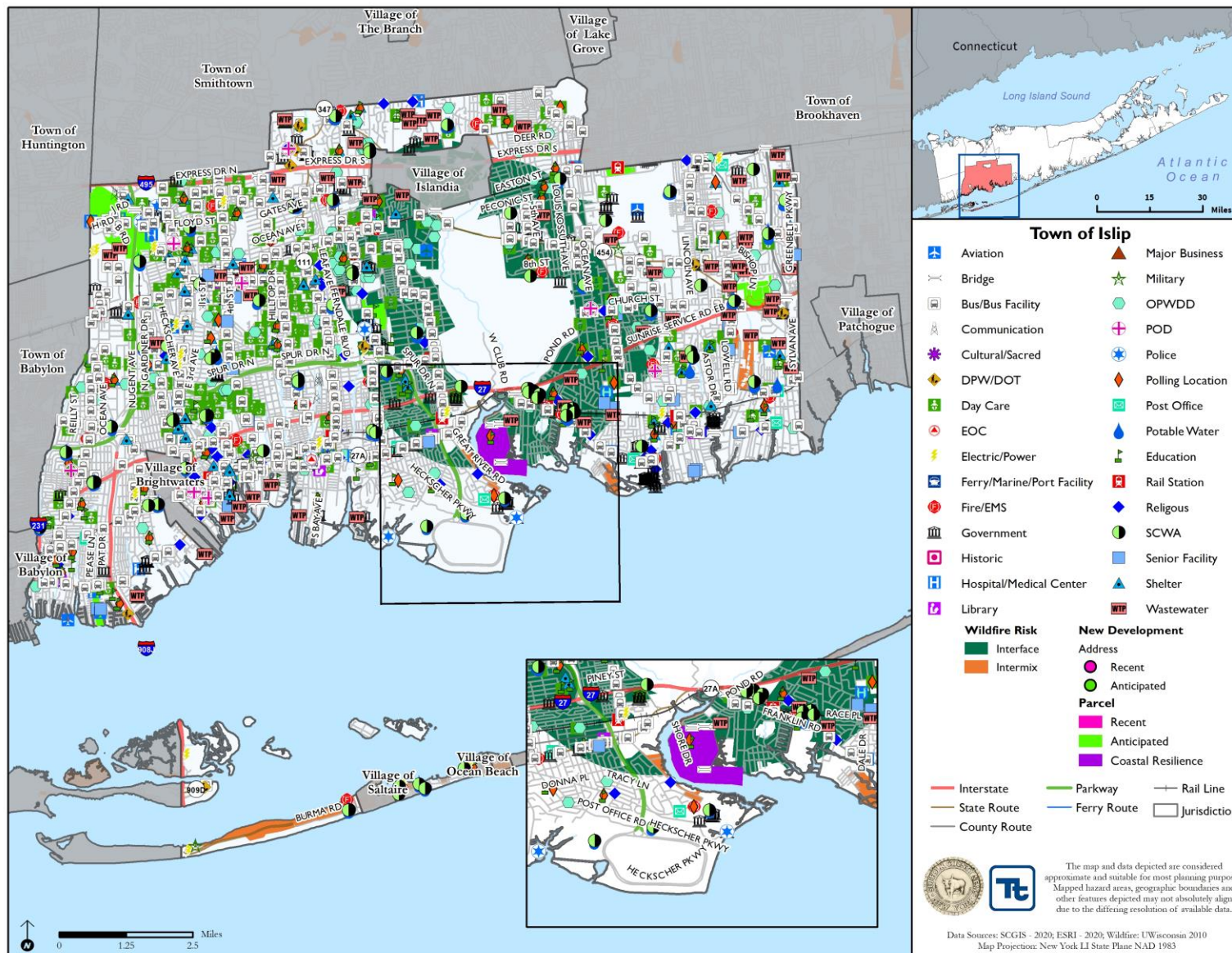




Figure 9.23-6. Town of Islip Hazard Area Extent and Location Map 6





Action Worksheet			
Project Name:	Town Hall West Auditorium-401 Main St. Islip NY		
Project Number:	2020-Islip-002		
Risk / Vulnerability			
Hazard(s) of Concern:	All Hazards		
Description of the Problem:	Town Hall West requires retrofit in order to be utilized for emergency response and sheltering. The Town needs to replace ceilings, new A/C units, lighting, seating, carpet, etc. to make the facility safe for sheltering and emergency use		
Action or Project Intended for Implementation			
Description of the Solution:	Harden of Town Hall West by employing measures that would reinforce necessary staging for a disaster recovery center, communication and public gathering centers, personnel and shelter staging areas		
Is this project related to a Critical Facility?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Is this project related to a Critical Facility located within the 100-year floodplain?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
(If yes, this project must intend to protect to the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	Building for Town leadership & government operations	Estimated Benefits (losses avoided):	Critical facility protected and capabilities expanded
Useful Life:	30 years	Goals Met:	1, 2, 7
Estimated Cost:	\$650,000	Mitigation Action Type:	Structure and Infrastructure Project
Plan for Implementation			
Prioritization:	A critical project long needed, High priority	Desired Timeframe for Implementation:	Within the next 2 yrs
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:	HMGP, BRIC, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, Town Budget
Responsible Organization:	Public Works	Local Planning Mechanisms to be Used in Implementation if any:	Hazard Mitigation
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Mutual aid agreements for additional sheltering outside town	TBD	Space may not be available
	Build new facility	\$1m	Costly
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Evaluation and Prioritization		
Project Name:	Town Hall West Auditorium-401 Main St. Islip NY	
Project Number:	2020-Islip-002	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Project will protect critical services of critical facilities
Property Protection	1	Project will protect critical facility/reinforce integrity
Cost-Effectiveness	1	Mitigates the need for finding off-site locations to devolve to, protects facility integrity
Technical	1	
Political	1	
Legal	0	No impact
Fiscal	1	Mitigates the need for finding off-site locations to devolve to, protects facility integrity
Environmental	1	
Social	1	Town Hall services remain accessible to constituents.
Administrative	1	
Multi-Hazard	1	
Timeline	1	As soon as funding became available
Agency Champion	1	Public Works
Other Community Objectives	1	
Total	13	
Priority (High/Med/Low)	High	



Action Worksheet			
Project Name:	Backup Power for Critical Facilities		
Project Number:	2020-Islip-003		
Risk / Vulnerability			
Hazard(s) of Concern:	All hazards		
Description of the Problem:	Backup power sources are necessary to maintain critical services for critical facilities. Numerous facilities in the Town with critical services lack a permanent power source.		
Action or Project Intended for Implementation			
Description of the Solution:	<p>The Town Engineer will research what size generator is necessary to supply backup power to the following critical facilities:</p> <ul style="list-style-type: none"> • Town Hall • Scale house at the Hauppauge Landfill. • Office at the Hauppauge Landfill. • Maintenance shop at the Hauppauge Landfill. <p>The Town will then install backup power generators and necessary electrical component at the facilities</p>		
Is this project related to a Critical Facility?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Is this project related to a Critical Facility located within the 100-year floodplain?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
(If yes, this project must intend to protect the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	N/A	Estimated Benefits (losses avoided):	Ensures continuity of operations at critical facilities
Useful Life:	20 years	Goals Met:	1, 2, 7
Estimated Cost:	\$50,000	Mitigation Action Type:	Structure and Infrastructure Projects (SIP)
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Immediately after funding received
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:	FEMA HMGP and PDM, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, Town Budget
Responsible Organization:	Public Safety, Engineer, Long Island MacArthur Airport	Local Planning Mechanisms to be Used in Implementation if any:	Hazard Mitigation, Emergency Management
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Install solar panels	\$100,000	Weather dependent; need large amount of space for installation; expensive if repairs needed
	Install wind turbine	\$100,000	Weather dependent; poses a threat to wildlife; expensive repairs if needed
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Action Worksheet		
Project Name:	Backup Power for Critical Facilities	
Project Number:	2020-Islip-003	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Project will protect critical services of critical facilities.
Property Protection	1	Project will protect critical facilities from power loss.
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	The Town has the legal authority to complete the project.
Fiscal	0	Project requires funding support.
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	1	All hazards
Timeline	1	1 year
Agency Champion	1	Public Safety, Engineer, Long Island MacArthur Airport
Other Community Objectives	1	
Total	13	
Priority (High/Med/Low)	High	



Action Worksheet			
Project Name:	Sequams Lane West Pump Station		
Project Number:	2020-Islip-006		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood, Severe Storm		
Description of the Problem:	Stormwater flooding is a recurring problem at Sequams Lane West.		
Action or Project Intended for Implementation			
Description of the Solution:	The Town will construct a new pump station at Sequams Lane West. The pump station will be protected to the 500-year flood level and will have a backup power generator on site.		
Is this project related to a Critical Facility?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Is this project related to a Critical Facility located within the 100-year floodplain?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
(If yes, this project must intend to protect to the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	500-year flood level	Estimated Benefits (losses avoided):	Reduction in flooding
Useful Life:	50 years	Goals Met:	1, 2
Estimated Cost:	\$3 million	Mitigation Action Type:	Structure and Infrastructure Project
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within 2 years
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:	HMGP, BRIC, Town budget
Responsible Organization:	Public Works	Local Planning Mechanisms to be Used in Implementation if any:	Hazard mitigation, Stormwater management
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Raise roadways in the area	\$250,000	Flooding likely to impact property owners
	Elevate homes in the area	\$3 million	Costly and roadways still flood
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Evaluation and Prioritization		
Project Name:	Sequams Lane West Pump Station	
Project Number:	2020-Islip-006	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	1	Project will protect properties in the area from flooding
Cost-Effectiveness	1	
Technical	1	The project is technically feasible
Political	0	
Legal	1	The Town is legally able to complete the project
Fiscal	0	Project requires funding support
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	1	Severe Storm, Flood
Timeline	1	2 years
Agency Champion	1	Public Works
Other Community Objectives	1	
Total	11	
Priority (High/Med/Low)	High	



Action Worksheet			
Project Name:	West Islip Marina Retrofit		
Project Number:	2020-Islip-008		
Risk / Vulnerability			
Hazard(s) of Concern:	Coastal Erosion, Flood, Hurricane, Nor'Easter, Severe Storm		
Description of the Problem:	Problem: West Islip Marina and the beach pavilion at 100 Beach Dr., West Islip NY are prone to damages during storm events.		
Action or Project Intended for Implementation			
Description of the Solution:	Retrofit West Islip Marina and the Beach's current pavilion with resilient design features to withstand storm events, including elevation of the structure, raising electrical outlets and adding wind resistant windows and shutters		
Is this project related to a Critical Facility?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Is this project related to a Critical Facility located within the 100-year floodplain?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
(If yes, this project must intend to protect to the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	500-year level	Estimated Benefits (losses avoided):	Provide shelter to residents
Useful Life:	30	Goals Met:	1, 2, 7
Estimated Cost:	\$100,000	Mitigation Action Type:	Structure and Infrastructure Project
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within the next 2 years
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:	HMGP, BRIC, Town budget
Responsible Organization:	Public Works	Local Planning Mechanisms to be Used in Implementation if any:	Hazard Mitigation
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Remove facility	\$20,000	Loss of services
	Relocate facility	N/A	No space available nearby
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Evaluation and Prioritization		
Project Name:	West Islip Marina Retrofit	
Project Number:	2020-Islip-008	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Structure provides shelter for residents
Property Protection	1	Project will protect structure and reinforce integrity
Cost-Effectiveness	1	
Technical	1	
Political	1	Provides safety
Legal	1	The Town has the legal authority to complete the project
Fiscal	0	
Environmental	1	
Social	1	Provide shelter to residents
Administrative	1	
Multi-Hazard	1	Coastal Erosion, Flood, Hurricane, Nor'Easter, Severe Storm
Timeline	1	As soon as funding became available
Agency Champion	1	Public Works
Other Community Objectives	1	
Total	13	
Priority (High/Med/Low)	High	



Action Worksheet			
Project Name:	Repetitive Loss Mitigation		
Project Number:	2020-Islip-010		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood, Severe Storm		
Description of the Problem:	Frequent flooding events have resulted in damages to residential properties in the West Islip (east of Robert Moses Causeway), Beach Street, and south of Montauk Highway neighborhoods. These properties have been repetitively flooded as documented by paid NFIP claims.		
Action or Project Intended for Implementation			
Description of the Solution:	Conduct outreach to 30 flood-prone property owners, including RL/SRL property owners and provide information on mitigation alternatives. After preferred mitigation measures are identified, collect required property-owner information and develop a FEMA grant application and BCA to obtain funding to implement acquisition/purchase/moving/elevating residential homes in the flood prone areas that experience frequent flooding (high risk areas).		
Is this project related to a Critical Facility or Lifeline?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Is this project related to a Critical Facility located within the 100-year floodplain?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Level of Protection:	1% annual chance flood event + freeboard (<i>in accordance with flood ordinance</i>)	Estimated Benefits (losses avoided):	Eliminates flood damage to homes and residents, creates open space for the municipality increasing flood storage.
Useful Life:	Acquisition: Lifetime Elevation: 30 years (residential)	Goals Met:	1, 2
Estimated Cost:	\$3Million	Mitigation Action Type:	Structure and Infrastructure Project
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	6-12 months
Estimated Time Required for Project Implementation:	Three years	Potential Funding Sources:	FEMA HMGP and FMA, local cost share by residents
Responsible Organization:	NFIP Floodplain Administrator, supported by homeowners	Local Planning Mechanisms to be Used in Implementation if any:	Hazard Mitigation
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Current problem continues
	Elevate homes	\$500,000	When this area floods, the entire area is impacted; elevating homes would not eliminate the problem and still lead to road closures and impassable roads
	Elevate roads	\$500,000	Elevated roadways would not protect the homes from flood damages
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Action Worksheet		
Project Name:	Repetitive Loss Mitigation	
Project Number:	2020-Islip-010	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Families moved out of high-risk flood areas.
Property Protection	1	Properties removed from high-risk flood areas.
Cost-Effectiveness	1	Cost-effective project
Technical	1	Technically feasible project
Political	1	
Legal	1	The Town has the legal authority to conduct the project.
Fiscal	0	Project will require grant funding.
Environmental	1	
Social	0	Project would remove families from the flood prone areas of the Town.
Administrative	0	
Multi-Hazard	1	Flood, Severe Storm
Timeline	0	
Agency Champion	1	NFIP Floodplain Administrator, supported by homeowners
Other Community Objectives	1	
Total	10	
Priority (High/Med/Low)	High	



Action Worksheet			
Project Name:	Backup Power and Flood Protection for Pump Stations		
Project Number:	2020-Islip-015		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood, Severe Storm		
Description of the Problem:	The following pump stations lack backup power and are exposed to flooding: <ul style="list-style-type: none"> • Eaton Lane • Sequams Lane • Ocean Avenue • Maple Avenue • Sable Lands End 		
Action or Project Intended for Implementation			
Description of the Solution:	The Town will elevate each pump station to the 500-year flood level. Each pump station will additionally have a backup generator and necessary electrical components installed.		
Is this project related to a Critical Facility?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Is this project related to a Critical Facility located within the 100-year floodplain?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
(If yes, this project must intend to protect to the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	500-year flood level	Estimated Benefits (losses avoided):	Pump stations protected from flooding and continuity of service established
Useful Life:	50 years	Goals Met:	1, 2
Estimated Cost:	\$1 million	Mitigation Action Type:	Structure and Infrastructure Project
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within 2 years
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:	HMGP, BRIC, GOSR, Town budget
Responsible Organization:	Public Works	Local Planning Mechanisms to be Used in Implementation if any:	Hazard mitigation, Stormwater management
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Raise roadways in the area	\$250,000	Flooding likely to impact property owners
	Elevate homes in the area	\$3 million	Costly and roadways still flood once pump stations are damaged
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Evaluation and Prioritization		
Project Name:	Backup Power and Flood Protection for Pump Stations	
Project Number:	2020-Islip-015	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	1	Project will protect properties in the area from flooding and protect pump stations from flood damage
Cost-Effectiveness	1	
Technical	1	The project is technically feasible
Political	0	
Legal	1	The Town is legally able to complete the project
Fiscal	0	Project requires funding support
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	1	Severe Storm, Flood
Timeline	1	2 years
Agency Champion	1	Public Works
Other Community Objectives	1	
Total	11	
Priority (High/Med/Low)	High	



Action Worksheet			
Project Name:	Raise building at Bayport Marina		
Project Number:	2020-Islip-016		
Risk / Vulnerability			
Hazard(s) of Concern:	All Hazards		
Description of the Problem:	The Bayport Marina (located at 255 Paulanna Avenue Bayport, NY) bathroom and electric and first aide station is an all in one building. The Building is sinking and increasingly exposed to hazards.		
Action or Project Intended for Implementation			
Description of the Solution:	Raise or relocate the building containing the bathrooms, first aide station and electric room		
Is this project related to a Critical Facility?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Is this project related to a Critical Facility located within the 100-year floodplain?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
(If yes, this project must intend to protect to the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	Facility at marina	Estimated Benefits (losses avoided):	Building protected from damage and services maintained.
Useful Life:	30 years	Goals Met:	1, 2, 6
Estimated Cost:	\$100,000	Mitigation Action Type:	Structure and Infrastructure Project
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within the next 2 years
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:	HMGP, BRIC, Town budget
Responsible Organization:	Public Works	Local Planning Mechanisms to be Used in Implementation if any:	Hazard Mitigation
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Abandon building	\$0	Loss of services
	Replace building with multi use trailers	\$200,000	Electric cannot be placed in trailer. Costly.
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Evaluation and Prioritization		
Project Name:	Raise building at Bayport Marina	
Project Number:	2020-Islip-016	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Protect the structure
Property Protection	1	Project will protect structure and reinforce integrity
Cost-Effectiveness	1	
Technical	1	All the electric for the marina is in this facility
Political	1	Provides safety
Legal	0	No impact
Fiscal	1	
Environmental	1	
Social	1	Provide shelter
Administrative	1	
Multi-Hazard	1	
Timeline	1	As soon as funding became available
Agency Champion	1	Public Works
Other Community Objectives	1	
Total	13	
Priority (High/Med/Low)	High	



Action Worksheet			
Project Name:	Hardening of Town Hall		
Project Number:	2020-Islip-017		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood, Hurricane, Nor'Easter, Severe Storm, Severe Winter Storm		
Description of the Problem:	Town Hall at 655 Main Street in Islip, NY needs to be functional during a storm/emergency. The facility are in low lying coastal areas prone to flooding and wind damage.		
Action or Project Intended for Implementation			
Description of the Solution:	The Town will replace windows, upgrade electric, new roof, implement flood mitigation measures, plumbing upgrades, install elevator and install flood doors at Town Hall		
Is this project related to a Critical Facility?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Is this project related to a Critical Facility located within the 100-year floodplain?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
(If yes, this project must intend to protect to the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	Not in flood zone, but it is the central building for Town Leadership and Government Operations	Estimated Benefits (losses avoided):	Continuity of Government Operations, Mitigates the need for personnel and functions to devolve. Facilitates recovery
Useful Life:	30	Goals Met:	1, 2, 7
Estimated Cost:	\$3,500,000	Mitigation Action Type:	Structure and Infrastructure Project
Plan for Implementation			
Prioritization:	A critical project long needed, High priority	Desired Timeframe for Implementation:	Within the next 2 years
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:	FEMA HMGP and BRIC, USDA Community Facilities Grant Program, Town budget
Responsible Organization:	Public Works	Local Planning Mechanisms to be Used in Implementation if any:	Hazard Mitigation, Emergency Management
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Use multi use trailer for emergency use during hazards	\$200,000	Not secure
	Rebuild Town Hall	\$10 million	Costly
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Evaluation and Prioritization		
Project Name:	Hardening of Town Hall	
Project Number:	2020-Islip-017	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Project will protect critical services of critical facilities
Property Protection	1	Project will protect critical facility/reinforce integrity
Cost-Effectiveness	1	Mitigates the need for finding off-site locations to devolve to, protects facility integrity
Technical	1	Provides the ability to run systems, maintain computer, phone and other systems
Political	1	Allows the Town Supervisor, Town Clerk Tax Assessor and Town Board to continue to function with minimal impacts
Legal	0	No impact
Fiscal	1	Mitigates the need for finding off-site locations to devolve to, protects facility integrity
Environmental	1	
Social	1	Town Hall services remain accessible to constituents.
Administrative	1	Allows the Town Supervisor, Town Clerk Tax Assessor, Town Board and other TOI administrative functions to continue to function with minimal impacts .
Multi-Hazard	1	Flood, Hurricane, Nor'Easter, Severe Storm, Severe Winter Storm
Timeline	1	As soon as funding became available
Agency Champion	1	Public Works
Other Community Objectives	1	Allow for town services to begin to be available at nominal levels to constituents as soon as possible.
Total	13	
Priority (High/Med/Low)	High	



Action Worksheet			
Project Name:	Various Facility Hardening for Emergency Support		
Project Number:	2020-Islip-018		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood, Hurricane, Nor'Easter, Severe Storm, Severe Winter Storm		
Description of the Problem:	Various facilities in the Town serve as sheltering locations and provide emergency services. These facilities are Ronkonkoma Pavillion (299 Rosevale Ave, Ronkonkoma NY), West Islip Senior Center (90 Higbie Lane, West Islip NY), and Islip Senior Center (555 Clayton St., Central Islip, NY). The buildings need to be functional during a storm/emergency to provide shelter for residents and employees with safety and a place to wait out the storm. These locations also include secured areas to facilitate the storage of emergency supplies		
Action or Project Intended for Implementation			
Description of the Solution:	The Town will work to replace windows, upgrade electric, implore flood mitigation measures and make plumbing upgrades to prepare for future storms and emergencies which will be used for resident shelters in the event of an emergency.		
Is this project related to a Critical Facility?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Is this project related to a Critical Facility located within the 100-year floodplain?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
(If yes, this project must intend to protect to the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	Provide shelter to residents	Estimated Benefits (losses avoided):	Sheltering and emergency services maintained
Useful Life:	30	Goals Met:	1, 2, 7
Estimated Cost:	\$360,000	Mitigation Action Type:	Structure and Infrastructure Project
Plan for Implementation			
Prioritization:	A critical project long needed, High priority	Desired Timeframe for Implementation:	Within the next 2 years
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:	HMGP, BRIC, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, Town Budget
Responsible Organization:	Public Works	Local Planning Mechanisms to be Used in Implementation if any:	Hazard Mitigation, Emergency management
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Abandon facilities	\$0	Loss of services of facilities
	Purchase trailers to provide emergency support	\$200,000	Not enough space for sheltering
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Evaluation and Prioritization		
Project Name:	Various Facility Hardening for Emergency Support	
Project Number:	2020-Islip-018	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Project will protect critical services of critical facilities
Property Protection	1	Project will protect critical facility/reinforce integrity
Cost-Effectiveness	1	Mitigates the need for finding off-site locations to devolve to, protects facility integrity
Technical	1	
Political	1	Provides safety
Legal	1	The Town has the legal authority to complete the project
Fiscal	0	Project requires funding support
Environmental	1	
Social	1	Provide shelter to residents
Administrative	1	
Multi-Hazard	1	Flood, Hurricane, Nor'Easter, Severe Storm, Severe Winter Storm
Timeline	1	As soon as funding became available
Agency Champion	1	Public Works
Other Community Objectives	1	Allow for town services to begin to be available at nominal levels to constituents as soon as possible.
Total	13	
Priority (High/Med/Low)	High	



Action Worksheet			
Project Name:	Hardening of Highway Yards		
Project Number:	2020-Islip-019		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood, Hurricane, Nor'Easter, Severe Storm, Severe Winter Storm		
Description of the Problem:	Highway yards need to be functional during a storm/emergency, for road clearing, emergency response, vehicle repair, etc. These yards are also fueling stations for Town vehicles and emergency vehicles (fire depts., EMS, School districts) throughout the Town of Islip		
Action or Project Intended for Implementation			
Description of the Solution:	Replace doors, windows, strengthen roof, etc. at 3 highway yards: <ul style="list-style-type: none"> • Bay Shore Highway Yard (145 2nd Ave, Bay Shore NY) • Central Islip Highway Yard (299 Carleton Ave, Central Islip NY) • Sayville Highway Yard (1200 Lincoln Ave, Holbrook, NY) 		
Is this project related to a Critical Facility?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Is this project related to a Critical Facility located within the 100-year floodplain?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
(If yes, this project must intend to protect to the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	Protected from storm damages	Estimated Benefits (losses avoided):	Continuity of Government Operations, Mitigates the need for personnel and functions to devolve. Facilitates recovery
Useful Life:	30	Goals Met:	2, 7
Estimated Cost:	\$195,000	Mitigation Action Type:	Structure and Infrastructure Project
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within the next 2 years
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:	HMGP, BRIC, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, Town Budget
Responsible Organization:	Public Works	Local Planning Mechanisms to be Used in Implementation if any:	Hazard Mitigation
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Rebuild each facility	\$200,00 each	Costly
	Build one centralized facility	\$1 million	Increases time required for response, costly
Progress Report (for plan maintenance)			
Date of Status Report:	7/5/2020		
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Evaluation and Prioritization		
Project Name:	Hardening of Highway Yards	
Project Number:	2020-Islip-019	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Project will protect critical services of constituents
Property Protection	1	Project will protect critical facility/reinforce integrity
Cost-Effectiveness	1	
Technical	1	
Political	1	Serve residents and make community safe
Legal	1	The Town has the legal authority to complete the project
Fiscal	0	
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	1	Flood, Hurricane, Nor'Easter, Severe Storm, Severe Winter Storm
Timeline	1	As soon as funding became available
Agency Champion	1	Public Works
Other Community Objectives	1	Allow for town services to begin to be available at nominal levels to constituents as soon as possible.
Total	13	
Priority (High/Med/Low)	High	



Action Worksheet			
Project Name:	Road Raising and Flood Mitigation		
Project Number:	2020-Islip-020		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood, Severe Storm		
Description of the Problem:	Recurring flooding due to the low elevation and high groundwater table, tidal cycles in combination with rain fall events cause periodic flooding onto the roadway and homes of the Islip low lying coastal community. The Town of Islip has 375 miles of roads in the flood plain that need to be elevated 4 feet over the next 80 years at an approximate cost of \$1 billion in order to allow for emergency responder access and egress and to ensure continuity of government services		
Action or Project Intended for Implementation			
Description of the Solution:	Road raising, leaching basins, installing tide flex valves at the following roadways: <ul style="list-style-type: none"> • Shore Dr, Oakdale NY, • Eaton Lane, West Islip NY, • South Court, Bay Shore NY, • Browns River Rd II, Bayport NY, • Browns, River Rd, Sayville NY, • River Rd, Sayville NY, • Bayview Ave, East Islip NY, • South Bay Ave, Islip NY, • Sequams Center, East & West, West Islip NY 		
Is this project related to a Critical Facility?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Is this project related to a Critical Facility located within the 100-year floodplain?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
(If yes, this project must intend to protect to the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	100 year flood level	Estimated Benefits (losses avoided):	Reduction in flooding
Useful Life:	30	Goals Met:	1, 7
Estimated Cost:	\$9,600,000	Mitigation Action Type:	Structure and Infrastructure Project
Plan for Implementation			
Prioritization:	A critical project long needed, High priority	Desired Timeframe for Implementation:	Within the next 2 years
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:	HMGP, BRIC, Town budget
Responsible Organization:	Public Works	Local Planning Mechanisms to be Used in Implementation if any:	Hazard Mitigation
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Elevate homes	\$4 Million	Costly and roadways still flood
	Remove floodprone roadways	N/A	Loss of access
Progress Report (for plan maintenance)			
Date of Status Report:	7/5/2020		
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Evaluation and Prioritization		
Project Name:	Road Raising and Flood Mitigation	
Project Number:	2020-Islip-020	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Project will protect critical services of constituents
Property Protection	1	Project will protect properties in the area from flooding
Cost-Effectiveness	1	
Technical	1	This project is technically feasible
Political	1	
Legal	1	The Town is legally able to complete these projects
Fiscal	0	Project requires funding support
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	1	Severe Storm, Flood
Timeline	1	2 years
Agency Champion	1	Public Works
Other Community Objectives	1	
Total	13	
Priority (High/Med/Low)	High	