9.32 TOWN OF OLEAN

This section presents the jurisdictional annex for the Town of Olean. 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 Olean'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.

9.32.1 Hazard Mitigation Planning Team

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

Table 9.32-1. Hazard Mitigation Planning Team

Primary Point of Contact	Alternate Point of Contact
Name/Title: Patrick Zink, Highway Superintendent Address: 1117 Steam Valley Rd., Olean, NY 14760 Phone Number: (716) 372-1060 Email: oleantownroad@aol.com	Name/Title: Annette M Parker, Supervisor Address: 1321 Old Rock City Rd, Olean, NY 14760 Phone Number: (716) 373-0582 Email: drvrad@verizon.net
NFIP Floodplain Administrator	
Name/Title: Jerry Dzuroff, Code Enforcement Officer Address: 3758 Main St. Hinsdale NY 14743 Phone Number: (716) 373-1540	

9.32.2 Municipal Profile

The Town of Olean lies on the southeast border of Cattaraugus County in western New York State. The Town of Olean has a total area of 29.7 square miles. The Allegheny River flows west through the town. The town is bordered to the north by the Town of Hinsdale, to the west is the Town of Allegany, and to the east is the Town of Portville.

There are two hamlets located within the town: Barnum and Haydenville and the City of Olean is located within the town. The estimated 2018 population was 2,183, a 11.2 percent increase in population from 2010 (1,963 persons).

Data from the 2018 U.S. Census American Community Survey indicate that 6.3 percent of the town population is 5 years of age or younger and 15.8 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.

History and Cultural Resources

The Town of Olean received its name from the Latin word "oleum" due to the discovery of crude oil in nearby Ischua. The town of Olean was established in 1808 as the first town in the county.

9.32.3 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 9.32-2 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development. Figure 9.32-1 and Figure 9.32-2 at the end of this annex illustrates the geographically delineated hazard areas and the location of potential new development, where available.

Table 9.32-2. Recent and Expected Future Development

Type of Development	2014		2015		2016		2017		2018	
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**
Single Family	2	0	3	0	1	0	2	0	1	0
Multi-Family	0	0	0	0	0	0	0	0	0	0
Other (commercial, mixed-use, etc.)	0	0	0	0	0	0	0	0	0	0
Total	**2**	**0**	**3**	**0**	**1**	**0**	**2**	**0**	**1**	**0**

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 2014 to Present					
N/A					
Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years					
N/A					

SFHA Special Flood Hazard Area (1% flood event)

** Only location-specific hazard zones or vulnerabilities identified.*

9.32.4 Capability Assessment

The Town of Olean performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Section 6.4 (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 9.32.4). The Town of Olean identified specific integration activities that will be incorporated into municipal procedures are included in the updated mitigation strategy. Appendix H provides the results of the planning/policy document review.

Planning, Legal, and Regulatory Capability

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

Table 9.32-3. 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?	
						If no - can it be a mitigation action?	
Codes, Ordinances, & Requirements							
Building Code	Yes	2/8/2000	Local	Codes	Yes	No	2020-Town of Olean-014
Comment: none							
Zoning Code	Yes	Zoning Law, 2/8/2000	Local	Codes	No	Yes	-
Comment: none							
Subdivisions	Yes	2/8/2000	Local	Codes	No	Yes	-
Comment: none							
Stormwater Management	No	-	-	-	Yes	-	-
Comment: none							
Post-Disaster Recovery	No	-	-	-	No	-	-
Comment: none							
Real Estate Disclosure	Yes	Property Condition Disclosure Act, NY Code - Article 14 §460-467	State	NYS Department of State, Real Estate Agent	Yes	Yes	-
Comment: none							
Growth Management	No	-	-	-	No	-	-
Comment: none							
Site Plan Review	No	-	-	-	No	-	-
Comment: none							
Environmental Protection	No	-	-	-	Yes	-	-
Comment: none							
Flood Damage Prevention	Yes	Flood Damage Prevention, LL No. 1-2000	Local	Town Board	Yes - BFE+2 feet for all construction in the SFHA (residential and non-residential)	No	2020-Town of Olean-007
Comment: none							
Municipal Separate Storm Sewer System (MS4)	No	-	-	-	Yes	-	-
Comment: none							
Emergency Management	Yes	Emergency Operations Plan	Local	Emergency Services	Yes	No	2020-Town of Olean-013
Comment: none							

	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?	
Climate Change	No	-	-	-	Yes	-	-
Comment: none							
Disaster Recovery Ordinance	No	-	-	-	No	-	-
Comment: none							
Disaster Reconstruction Ordinance	No	-	-	-	No	-	-
Comment: none							
Other	No	-	-	-	-	-	-
Planning Documents							
Comprehensive Plan	No	-	-	-	No	-	-
Comment: none							
Capital Improvement Plan	No	-	-	-	No	-	-
Comment: none							
Disaster Debris Management Plan	No	-	-	-	No	-	-
Comment: none							
Floodplain or Watershed Plan	No	-	-	-	No	-	-
Comment: none							
Stormwater Plan	No	-	-	-	No	-	-
Comment: none							
Open Space Plan	No	-	-	-	Yes	-	-
Comment: none							
Urban Water Management Plan	No	-	-	-	No	-	-
Comment: none							
Habitat Conservation Plan	No	-	-	-	No	-	-
Comment: none							
Economic Development Plan	No	-	-	-	No	-	-
Comment: none							
Shoreline Management Plan	No	-	-	-	Yes	-	-
Comment: none							
Community Wildfire Protection Plan	No	-	-	-	No	-	-
Comment: none							

	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?	
Forest Management Plan	No	-	-	-	No	-	-
Comment: none							
Transportation Plan	No	-	-	-	No	-	-
Comment: none							
Agriculture Plan	No	-	-	-	Yes	-	-
Comment: none							
Other	No	-	-	-	-	-	-
Comment: none							
Response/Recovery Planning							
Comprehensive Emergency Management Plan	Yes	2007	County	County	Yes	No	2020-Town of Olean-013
Comment: none							
Strategic Recovery Planning Report	No	-	-	-	-	-	-
Comment: none							
Threat & Hazard Identification & Risk Assessment (THIRA)	No	-	-	-	Yes	-	-
Comment: none							
Post-Disaster Recovery Plan	No	-	-	-	No	-	-
Comment: none							
Continuity of Operations Plan	No	-	-	-	No	-	-
Comment: none							
Public Health Plan	No	-	-	-	No	-	-
Comment: none							
Other	No	-	-	-	No	-	-

Table 9.32-4. Development and Permitting Capability

Indicate if your jurisdiction implements the following	Response Yes/No; Provide further detail
Development Permits. If yes, what department?	Yes, Code Enforcement
Permits are tracked by hazard area. For example, floodplain development permits.	No
Buildable land inventory If yes, please describe If no, please quantitatively describe the level of buildout in the jurisdiction.	No- 50% buildable

Administrative and Technical Capability

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

Table 9.32-5. Administrative and Technical Capabilities

Resources	Available? (Yes or No)	Department/ Agency/Position
Administrative Capability		
Planning Board	Yes	Town Board
Mitigation Planning Committee	No	-
Environmental Board/Commission	No	-
Open Space Board/Committee	No	-
Economic Development Commission/Committee	Yes	Town Board
Warning Systems / Services (reverse 911, outdoor warning signals)	Yes	Sheriff/Dispatch
Maintenance programs to reduce risk	No	-
Mutual aid agreements	Yes	Fire Departments/Town Board
Technical/Staffing Capability		
Planners or engineers with knowledge of land development and land management practices	No	-
Engineers or professionals trained in building or infrastructure construction practices	Yes	Code Enforcement
Planners or engineers with an understanding of natural hazards	No	-
Staff with expertise or training in benefit/cost analysis	No	-
Professionals trained in conducting damage assessments	No	-
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	No	-
Scientist familiar with natural hazards	No	-
NFIP Floodplain Administrator (FPA)	Yes	Code Enforcement
Surveyor(s)	Yes	Code Enforcement
Emergency Manager	Yes	Town Supervisor
Grant writer(s)	Yes	Municipal Solutions
Resilience Officer	No	-
Other	No	-

Fiscal Capability

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

Table 9.32-6. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	Yes
Capital improvements project funding	No
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas or electric service	Yes
Impact fees for homebuyers or developers of new development/homes	No
Stormwater utility fee	No
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Yes
Incur debt through private activity bonds	Yes
Withhold public expenditures in hazard-prone areas	No
Other federal or state Funding Programs	Yes

Financial Resources	Accessible or Eligible to Use (Yes/No)
Open Space Acquisition funding programs	Yes
Other	Yes

Education and Outreach Capability

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

Table 9.32-7. Education and Outreach Capabilities

Indicate if your jurisdiction has the following resources	Yes/No; Please describe
Public information officer or communications office?	Yes, Town Supervisor
Personnel skilled or trained in website development?	Yes, Southern Tier West
Hazard mitigation information available on your website; if yes, describe	No
Social media for hazard mitigation education and outreach; if yes, briefly describe.	No
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.	No
Warning systems for hazard events; if yes, briefly describe.	Yes, Local Fire Department
Natural disaster/safety programs in place for schools; if yes, briefly describe.	Yes, fire and severe storm programs
Other	No

Community Classifications

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

Table 9.32-8. Community Classifications

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

- The town does not currently have access to resources to determine the possible impacts of climate change upon the municipality and would rely on the county.

Table 9.32-9. Adaptive Capacity

Hazard	Adaptive Capacity (Capabilities) - High/Medium/Low*
Flood	Medium
Landslide	Medium
Severe Storm	High
Severe Winter Storm	High
Utility Failure	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*

National Flood Insurance Program

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

NFIP Floodplain Administrator (FPA)

Jerry Dzuroff, Code Enforcement Officer

National Flood Insurance Program (NFIP) Summary

There are not any areas prone to flooding in the town and the town does not maintain a list of properties that have been damaged by flooding. The town does not maintain a list of property owners interested in flood mitigation. There are no RiskMAP projects currently underway in the town. The Town of Olean does not make Substantial Damage determinations and no properties have been mitigated. The town's flood hazard maps adequately address the flood risk within the town.

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

Table 9.32-10. NFIP Summary

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties
Town of Olean	30	25	$329,532	4

Source: *NYS DHES 2020*
RL *Repetitive Loss; SRL Severe Repetitive Loss*

Resources

Code Enforcement is responsible for floodplain management and the Code Enforcement Officer is a certified floodplain manager. The town does not have access to resources to determine possible future flooding conditions from climate change. The floodplain management staff needs training to support its floodplain management program. The NFIP administration service the town provides is permit review. The barriers the town has to running an effective NFIP program is a lack of additional training.

Compliance History

The town does not have any outstanding NFIP compliance violations that need to be addressed. The most recent Community Assistance Visit (CAV) was on September 8, 2011 and the most recent Community Assistance Contact (CAC) was on April 17, 1998

Regulatory

The town's Flood Damage Prevention Ordinance is LL No. 1-2000. The floodplain management program is not current and does not include the required freeboard. There are other local ordinances, plans, and programs that support the floodplain management and meeting the NFIP requirements.

Additional Areas of Existing Integration

Town Website: The Town of Olean's website (http://townofolean.org/) hosts town information and announcements.

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

The Town of Olean has designated Route 16 as their north and south evacuation route and Route 417 as their east and west evacuation route.

Sheltering

The Town of Olean has designated five sites for shelters during emergency events. The first site is the Town of Olean Fire Department located at 1297 Old Rock City Road. It has a capacity of 150 people, is ADA compliant, has back up power, and does not accommodate pets. Another site is the Town of Olean Town Hall located at 2634 Route 16 North. It can accommodate 50 people as well as pets, is ADA compliant, but does not have backup power. The third site is Weston Mills Fire Department and Community Center located at 1310 Olean-Portville Road that can accommodate 300 people. It is ADA compliant and has back up power but does not accommodate pets. Another site is the Hinsdale Fire Hall located at 3832 Church Street and can accommodate 150 people, is ADA compliant, has backup power, but does not accommodate pets. The last designated shelter is the SPCA located at 2944 Hinsdale Highway Route 16 which can accommodate 50 people and pets and is ADA compliant.

Temporary Housing

The Town of Olean has two designated temporary housing sites. One site is located on Queen Street and can hold 50 people, and has water, septic, and electric utilities available. The other sire is on Dugan Road and can hold 20 people and has water, septic, and electric utilities available.

Permanent Housing

The town has identified three sites for permanent housing in case of an emergency. One site is an open field on Queen street that can accommodate 25 people and has utilities such as water, electric, and septic. Another location is open/brush field on Dugan Road that can accommodate 10 people ad has water, electric, and septic. A third site is a brush field on David Drive that can accommodate 10 people and has electric and gas. The county has also identified locations shown in Figure 9.32-1 and Figure 9.32-2.

9.32.5 Hazard Event History Specific to the Town of Olean

Cattaraugus 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 Olean's history of federally declared (as presented by FEMA) and significant hazard events (as presented in NOAA-NCEI) is consistent with that of Cattaraugus County. Table 9.32-11 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 9.32-11. Hazard Event History

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
October 27-November 8, 2012	Hurricane Sandy (FEMA-EM-3351)	Yes	Remnants of Hurricane Sandy brought strong winds and heavy rains to western and north central New York. Rainfall amounts of two to five inches were measured across the area with some area creeks reaching bankful. The high winds downed trees and power lines throughout the region. Wind gusts were measured to 60 mph.	Although the county was impacted, the Town of Olean did not report damages.
May 13-22, 2014	Severe Storms and Flooding (FEMA-DR-4180)	Yes	Heavy showers and embedded thunderstorms trained across the western Southern tier. Rainfall amounts of one to three inches in just a few hours resulted in flash flooding across the region. Roads and culverts were washed out. Numerous roads were water-covered and closed.	Although the county was impacted, the Town of Olean did not report damages.
November 17-26, 2014	Severe Winter Storm, Snowstorm, and Flooding (FEMA-DR-4204)	Yes	Lake effect snow resulted in heavy snowfall across the region.	Although the county was impacted, the Town of Olean did not report damages.
July 14, 2015	Flash Flood	No	Numerous rounds of storms along a stationary cold front resulted in flash flooding. Damaging winds occurred in some areas of the county.	Although the county was impacted, the Town of Olean did not report damages.
March 8, 2017	High Wind	No	A strong low pressure system brought strong and damaging winds to the entire region.	Although the county was impacted, the Town of Olean did not report damages.
September 18-21, 2019	Flash Flood	No	Severe Storm caused flash flooding throughout the county	Debris removal from creek bed and from roadway in Union Valley, debris removal and gravel cleaned from ditch in Hindsdale, road washout at culvert. Blakeslee Culvert needs replacement from damage.

Notes:
EM *Emergency Declaration (FEMA)*
FEMA *Federal Emergency Management Agency*

DR *Major Disaster Declaration (FEMA)*
N/A *Not applicable*

9.32.6 Hazard Ranking and Jurisdiction-Specific Vulnerabilities

The hazard profiles in Section 5.0 (Risk Assessment) of this plan have detailed information regarding each plan participant's vulnerability to the identified hazards. The following summarizes the Town of Olean's risk assessment results and data used to determine the hazard ranking.

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.

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 Cattaraugus 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 Olean. The Town of Olean has reviewed the county hazard risk/vulnerability risk ranking table as well as 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 Olean indicated the following:

- The Town of Olean decided to change flood and severe storm from low to medium due to previous flooding and severe storm events.

Table 9.32-12. Hazard Ranking Input

Flood*	Landslide	Severe Storm*	Severe Winter Storm	Utility Failure	Wildfire
Medium	Low	Medium	Low	High	Low

Note: The scale is based on the following hazard rankings as established in Section 5.3.
**The town changed the initial ranking of this hazard based on event history, experience, and feedback*

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 this criterion, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent annual chance floodplain and presents Hazards United States (HAZUS) – Multi-Hazards (MH) estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.

Table 9.32-13. Potential Flood Losses to Critical Facilities

Name	Type	Exposure 1% Event	Addressed by Proposed Action
National Fuel Gas District	Electric/Power	X	2020-Town of Olean-002

Source: Cattaraugus County 2020

Identified Issues

The town has identified the following vulnerabilities within their community:

- Culverts in the town are outdated along Hinsdale and East River Road.
- The National Fuel Gas District is in the special flood area and vulnerable to flooding. Critical facilities need to be protected to the 0.2% annual chance flood event.
- Undersized culvert on Godfrey Hollow.
- Undersized culvert on McCann Hollow.
- Undersized culvert on back Hinsdale Road.
- Undersized culverts on East River Road.
- Undersized culvert on Blakeslee Hollow Road.
- Town Hall lacks generators.
- Landslide along Steam Valley.
- Highway Garage has insufficient backup power.
- Fire Department lacks generators and requires backup power.
- Stream Valley has limited access during flooding.
- The town lacks and updated flood damage prevention ordinance.
- Floodplain Administration staff require additional training.
- Additional public education on wildfire risk is needed.
- Town Hall located at 2634 Rt 16 N is in the floodplain and exposed to flooding.
- East and West River Road not protected from flooding with 40 residential properties.
- Godfrey Hollow Rd, McCann Hollow Rd, Steam Valley Hollow Rd, and Oregon Rd are eroding.

9.32.7 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 Plan. Actions that are carried forward as part of this plan update are included in the following subsection in its own table with prioritization. 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.

Table 9.32-14. Status of Previous Mitigation Actions

Project #	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.
B2.17	Replace culverts in the Town of Olean on Back Hinsdale and East River Rd.	Flood	Town	Undersized culverts need replaced	In progress	Cost		1. Include in 2020 HMP, Action 2020-Town of Olean-001 2.Plans are in place/ready to replace 3.
						Level of Protection		
						Damages Avoided; Evidence of Success		

Completed Mitigation Initiatives Not Identified in the Previous Mitigation Strategy

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

- None identified

Proposed Hazard Mitigation Initiatives for the Plan Update

The Town of Olean participated in a mitigation action workshop in September 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 9.32-15 summarizes the comprehensive range of specific mitigation initiatives the Town of Olean 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, 14 evaluation/prioritization criteria are used to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing your actions as 'High', 'Medium', or 'Low.' The table below summarizes the evaluation of each mitigation initiative, listed by Action Number.

Table 9.32-16 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan update.

Table 9.32-15. 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-Town of Olean-001	Replace culverts in the Town of Olean on Back Hinsdale/Valley View, East River Rd at or near 1998, 1754, and 1700, Godfrey Hollow Rd, McCann Hollow Rd, and Blakeslee Hollow Rd.	2	Flood, Severe Storm	**Problem:** Culverts in the town are outdated and undersized and needs to be replaced along Back Hinsdale/Valley View, East River Rd, Godfrey Hollow Rd, McCann Hollow Rd, and Blakeslee Hollow Rd. **Solution:** The town will replace and upsize the repetitively damaged/undersized culverts, following an engineering study to determine the appropriate size upgrades.	No	None	Within 5 years	Engineer, Highway Department	$20,000 per culvert	Reduction in culvert damages and flood risk	HMGP, BRIC, CHIPS, town budget	High	SIP	SP
2020-Town of Olean-002	Protect the National Fuel Gas District to the 0.2% annual chance flood event.	2,3	Flood	**Problem:** The National Fuel Gas District is in the special flood hazard area and vulnerable to flooding. Critical facilities must be protected to the 0.2% annual chance flood event. **Solution:** the FPA will contact the facility manger to discuss the facilities flood exposure and possible mitigation actions to protect the facility to the 0.2% annual chance flood event.	Yes	None	Within 6 months	FPA	<$100	Facility manager aware of flood risk and possible mitigation measures	Municipal Budget	Med.	EAP	PP
2020-Town of Olean-003	Generator for Town Hall and Highway Garage	2	All Hazards	**Problem**: Backup power sources are necessary to maintain critical services for critical facilities. Town Hall and Highway Garage lack a permanent power source. The Town Hall location houses the Town Hall, Court, and Clerk. The Highway Garage houses highway equipment and vehicles. **Solution**: The Town Engineer will research what size generator is necessary to supply backup power to the Town Hall and Highway Garage. The town will then install	Yes	None	Within 2 years	Town Board, Engineer	$50,000 per generator	Ensures continuity of operations of Town Hall and Highway Garage	HMGP, BRIC, Municipal Budget	High	SIP	PP

Table 9.32-15. 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
				a backup power generator and necessary electrical components.										
2020-Town of Olean-004	Landslide study along Stream Valley and Old Rock City Road	1	Landslide	**Problem**: Landslide conditions exist along Stream Valley. **Solution:** Conduct landslide study to determine landside risk and potential mitigation actions.	No	None	Within 5 years	Engineer	Staff time	Local vulnerabilities to landslides threatening property and roads determined and mitigation actions put into place.	Municipal budget	High	EAP	PR
2020-Town of Olean-005	Generator for Town of Olean Fire Department	2	All Hazards	**Problem**: Backup power sources are necessary to maintain critical services for critical facilities. Fire Department lacks a permanent power source. The Fire Department houses the firefighters and fire trucks. **Solution:** The Town Engineer will research what size generator is necessary to supply backup power to the Fire Department. The town will then install a backup power generator and necessary electrical components.	Yes	None	1 year	Engineer, OEM, Fire Department	$$50,000	Ensures continuity of operations of Fire Department	FEMA HMGP, BRIC, USDA Comm. Facilities Grant Program, EMPG, Municipal Budget	High	SIP	PP
2020-Town of Olean-006	Steam Valley access	1	Flood, Severe Storm	**Problem:** Steam Valley Road has limited access during flooding. Roads are prone to washout during heavy rain events. **Solution:** Conduct an engineering study to determine the best action to mitigate flooding and allow road access during flooding. Carry out the identified action.	No	None	1 year	Soil and Water Conservation District, Engineer	$50,000	Prevent flooding and ice jams on Steam Valley	HMGP, County budget	Med.	SIP	PP
2020-Town of Olean-007	Update Flood Damage Prevention Ordinance	2	Flood	**Problem:** The town lacks and updated flood damage prevention ordinance. **Solution:** The town will develop an updated flood damage prevention ordinance.	No	None	Within 6 months	Town board	<$100	Meet NFIP requirements, buildings built to a higher standard.	Town Budget	High	LPR	PR

Table 9.32-15. 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-Town of Olean-008	Floodplain Administrator to attend training on floodplain management	3	Flood	**Problem:** Floodplain Managers require training. Those responsible for floodplain management are lacking in their knowledge of required duties. **Solution:** Obtain/host training and certification for floodplain managers.	No	None	Within 5 years	Cattaraugus County Emergency Management/Cattaraugus County Codes Department	$3,000	Certified floodplain managers trained Floodplain management improved.	County budget	High	EAP	PR
2020-Town of Olean-009	Provide information to residents, business owners, and organizations about what they can do to prevent their structures from wildfires.	3	Wildfires	**Problem:** Additional public education on wildfire risk is needed. **Solution:** the town will develop an outreach program to educate the public about wildfires and what they can do to protect their structures.	No	None	1 year	Town board	<$100	Public educated and better prepared and protected from hazards	Town budget	High	EAP	PI
2020-Town of Olean-010	Relocation or elevation of Town Hall	2	Flood, Severe Storm	**Problem:** Town Hall located at 2634 Rt 16 is in the floodplain and exposed to flooding. Town Hall is a critical facility and needs to be protected to the 0.2% annual chance flood event. **Solution:** Conduct an engineering study to determine best action (relocation or elevation) to protect Town Hall from flooding.	Yes	None	Within 5 years	Town Board, FPA, Engineer	TBD on engineering study	Ensures continuity of operations of Town Hall	HMGP, BRIC	Med.	SIP	PP
2020-Town of Olean-011	Relocation or elevation of properties along East and West River Rd	2	Flood, Severe Storm	**Problem:** 40 properties along East and West River Roads are exposed to flooding. **Solution:** Conduct an Engineering Study to determine best action (elevation or relocation) of properties to protect them from flooding. Work with property owners to implement the selected actions.	No	None	Within 5 years	FPA	TBD on Engineering Study	Properties protected from flooding	HMGP, BRIC	Med.	SI	PP
2020-Town	Trim tree limbs away from	1	Storms (Ice,	**Problem**: The town does not have a tree trimming program in place.	No	None	3 months		$5,000	Reduction in power loss,	HMGP, BRIC,	High	SIP	PP

Table 9.32-15. 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
of Olean -012	buildings and structures.		winter, severe), tornadoes	It is unknown the safety of trees throughout the town. During wind events or heavy snow, falling tree branches can damage utilities and private property. **Solution:** The town will develop a tree trimming maintenance program and remove trees that pose a threat to structures.				Municipalities and Hwy Dept		property damage	municipal budget			
2020-Town of Olean -013	Update the Emergency Operations Plan.	2	All Hazards	**Problem:** The town has an outdated Emergency Operations Plan. **Solution:** The town will update town's Emergency Operation Plan to include current hazards.	No	None	Within 1 year	County, Town	<$100	EOPs updated	Municipal budget	High	LPR	ES
2020-Town of Olean -014	Update Building Code	2	All Hazards	**Problem:** Building codes are outdated in the town. **Solution:** The town will update building codes so buildings are built to withstand hazards they face.	No	None	Within 1 year	County, Town	<$100	Building Codes to provide standards to protect buildings from hazards	Municipal Budget	High	LPR	PP
2020-Town of Olean -015	Erosion control of Godfrey Hollow Rd, McCann Hollow Rd, Steam Valley Rd, and Oregon Rd	2	Severe Storm, Flood	**Problem:** Erosion of roadside ditches along Godfrey Hollow Rd, McCann Hollow Rd, Steam Valley Rd, and Oregon Rd due to heavy rain events. **Solution:** The town will place riprap along roadside ditches to hold soil and slow water back and prevent them from washing out roads.	No	None	Within 2 years	Highway Department	$6,000	Roads protected from erosion	HMGP, Municipal Budget	High	SIP	SP

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

Acronyms and Abbreviations: *Potential FEMA HMA Funding Sources:* *Timeline:*

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*
Med.	*Medium*
N/A	*Not applicable*
NFIP	*National Flood Insurance Program*
OEM	*Office of Emergency Management*
FMA	*Flood Mitigation Assistance Grant Program*
HMGP	*Hazard Mitigation Grant Program*
BRIC	*Building Resilient Infrastructure and Communities*

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 9.32-16. 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	Total	High / Medium / Low
2020-Town of Olean-001	Replace culverts in the Town of Olean on Back Hinsdale/Valley View, East River Rd at or near 1998, 1754, and 1700, Godfrey Hollow Rd, McCann Hollow Rd, and Blakeslee Hollow Rd.	1	1	1	1	1	1	0	1	1	1	1	0	1	1	12	High
2020-Town of Olean-002	Protect the National Fuel Gas District to the 0.2% annual chance flood event.	0	1	0	1	1	0	1	1	1	0	0	0	1	1	8	Medium
2020-Town of Olean-003	Generator for Town Hall and Highway Garage	1	1	1	1	1	1	0	0	1	1	1	1	1	1	12	High
2020-Town of Olean-004	Landslide study along Steam Valley and Old Rock City Road	1	1	1	1	1	1	0	1	1	1	0	0	1	0	10	High
2020-Town of Olean-005	Generator for Town of Olean Fire Department	1	1	1	1	1	1	1	0	1	1	1	1	0	0	11	High
2020-Town of Olean-006	Stream Valley access	1	0	1	1	1	1	0	0	1	1	0	1	1	0	8	Medium
2020-Town of Olean-007	Update Flood Damage Prevention Ordinance	0	1	1	1	1	1	1	1	1	1	0	1	1	1	12	High
2020-Town of Olean-008	Floodplain Administrator to attend training on floodplain management	1	1	1	1	1	1	1	1	1	1	0	1	1	1	13	High
2020-Town of Olean-009	Provide information to residents, business owners, and organizations about what they can do to prevent their structures from wildfires.	1	1	1	1	1	1	1	1	1	1	0	1	1	1	13	High
2020-Town of Olean-010	Relocation or elevation of Town Hall	1	1	1	1	0	1	0	0	0	1	1	0	0	1	8	Medium
2020-Town of Olean-011	Relocation or elevation of properties along	1	1	1	1	0	1	0	0	0	1	1	0	0	1	8	Medium

Table 9.32-16. 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	Total	High / Medium / Low
	East and West River Rd																
2020-Town of Olean-012	Trim tree limbs away from buildings and structures.	0	1	1	1	1	1	0	1	1	1	1	1	1	1	12	High
2020-Town of Olean-013	Update the Emergency Operations Plan.	0	1	1	1	1	1	1	1	1	1	0	1	1	1	12	High
2020-Town of Olean-014	Update Building Code	0	1	1	1	1	1	1	1	1	1	0	1	1	1	12	High
2020-Town of Olean-015	Erosion control of Godfrey Hollow Rd, McCann Hollow Rd, Steam Valley Rd, and Oregon Rd	1	1	1	1	1	1	0	1	1	1	1	0	1	1	12	High

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

9.32.8 Proposed Mitigation Action Types

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

Table 9.32-17. Analysis of Mitigation Actions by Hazard and Category

	FEMA				CRS					
Hazard	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Flood	X	X		X	X	X			X	X
Landslide	X	X		X	X	X				X
Severe Storm	X	X				X			X	X
Severe Winter Storm	X	X				X			X	X
Utility Failure	X	X				X				X
Wildfire	X	X		X		X	X			X

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

9.32.9 Staff and Local Stakeholder Involvement in Annex Development

The Town of Olean 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: The Supervisor and Highway Superintendent. The Highway Superintendent represented the community on the Cattaraugus County Hazard Mitigation Plan Planning Partnership 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.

Additional documentation on the municipality's planning process through Planning Partnership meetings is included in Section 3 (Planning Process) and Appendix C (Meetings).

9.32.10 Hazard Area Extent and Location

Hazard area extent and location maps have been generated for the Town of Olean that illustrates the probable areas impacted within the municipality. These maps are based on the best available data at the time of the preparation of this plan and is 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 Olean has significant exposure. The maps are illustrated below.

Figure 9.32-1. Town of Olean Hazard Area Extent and Location Map 1

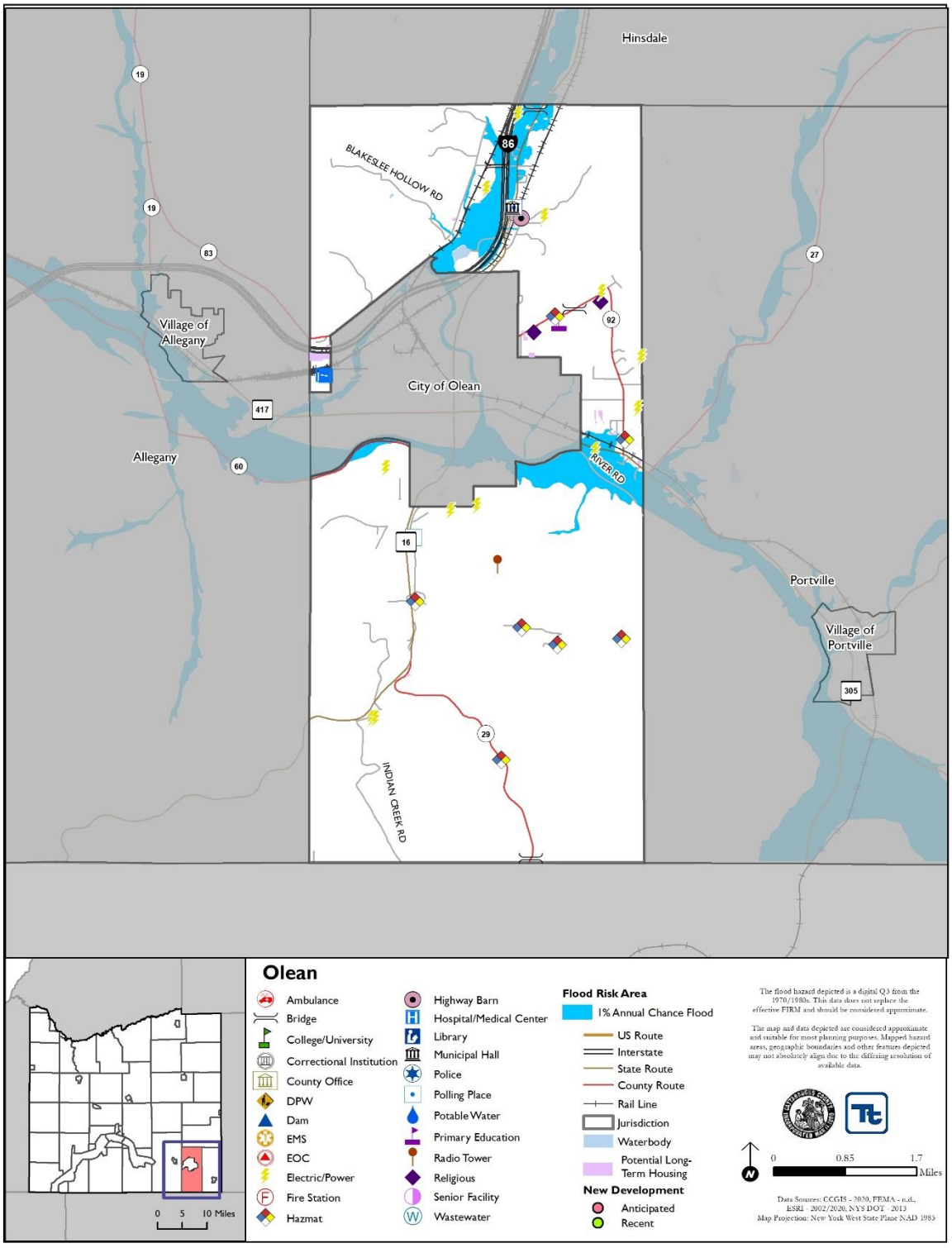
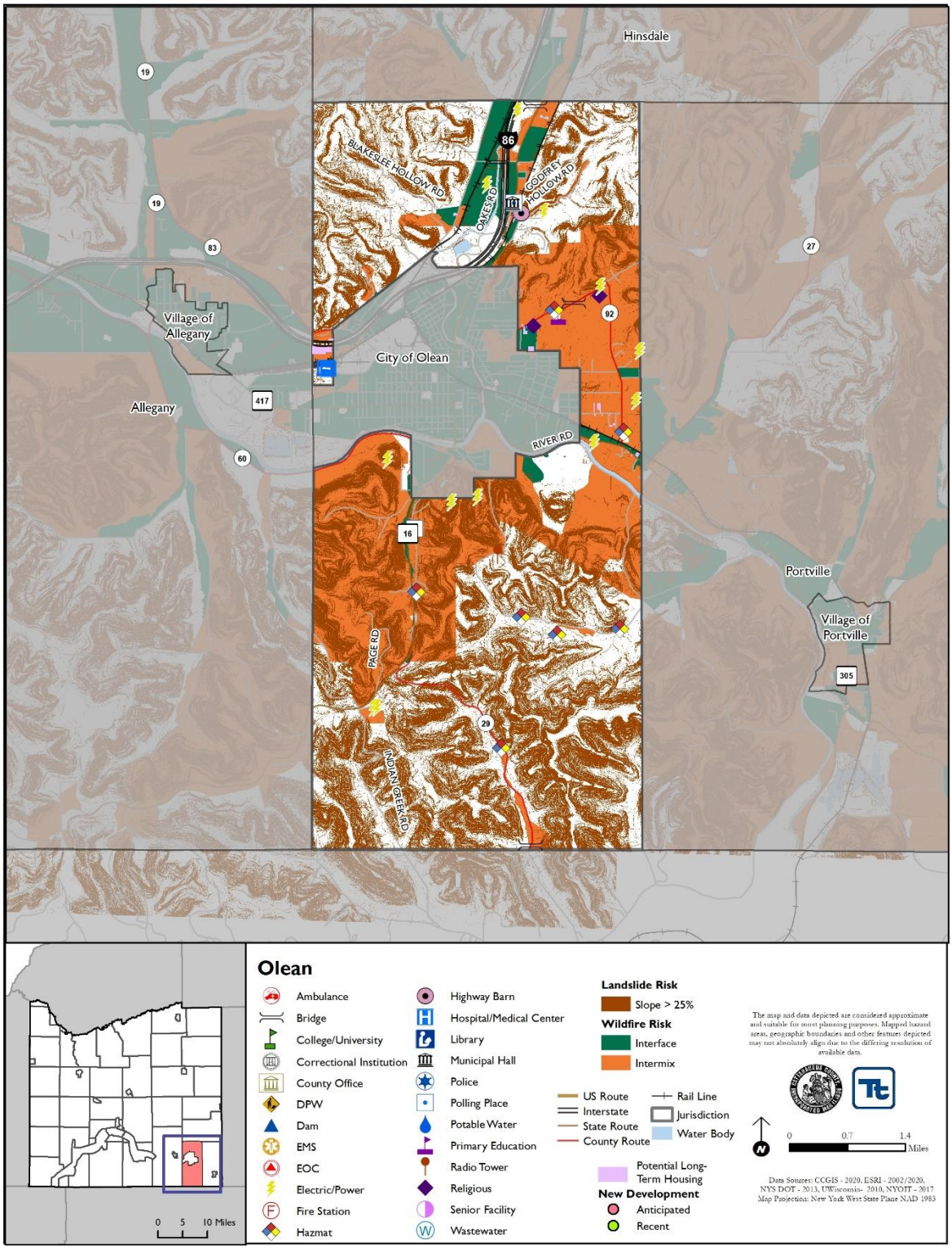


Figure 9.32-2. Town of Olean Hazard Area Extent and Location Map 2



Town of Olean Action Worksheet

Project Name:	Replace culverts in the Town of Olean on Back Hinsdale/Valley View, East River Rd at or near 1998, 1754, and 1700, Godfrey Hollow Rd, McCann Hollow Rd, and Blakeslee Hollow Rd.		
Project Number:	2020-Town of Olean-001		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood, Severe Storm		
Description of the Problem:	Culverts in the town are outdated and undersized and needs to be replaced along Back Hinsdale/Valley View, East River Rd, Godfrey Hollow Rd, McCann Hollow Rd, and Blakeslee Hollow Rd.		
Action or Project Intended for Implementation			
Description of the Solution:	The town will replace and upsize the repetitively damaged/undersized culverts, following an engineering study to determine the appropriate size upgrades.		
Is this project related to a Critical Facility?	Yes ☐	No ☒	
Is this project related to a Critical Facility located within the Special Flood Hazard Area?	Yes ☐	No ☒	
(If yes, this project must intend to protect the 0.2% year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	N/A	**Estimated Benefits (losses avoided):**	Reduction in culvert damages and flood risk
Useful Life:	30 years	**Goals Met:**	2
Estimated Cost:	$20,000 per culvert	**Mitigation Action Type:**	Structure and Infrastructure
Plan for Implementation			
Prioritization:	High	**Desired Timeframe for Implementation:**	Within 5 years
Estimated Time Required for Project Implementation:	1 year	**Potential Funding Sources:**	HMGP, BRIC, CHIPS, town budget
Responsible Organization:	Engineer, Highway Department	**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.
	Remove road	$20,000	Roadway cannot be removed
	Relocate road to another location	$50,000	Roadway will still need to cross stream, costly

Progress Report (for plan maintenance)	
Date of Status Report:	
Report of Progress:	
Update Evaluation of the Problem and/or Solution:	

Action Worksheet		
Project Name:	Replace culverts in the Town of Olean on Back Hinsdale/Valley View, East River Rd at or near 1998, 1754, and 1700, Godfrey Hollow Rd, McCann Hollow Rd, and Blakeslee Hollow Rd.	
Project Number:	2020-Town of Olean-001	
Criteria	**Numeric Rank (-1, 0, 1)**	**Provide brief rationale for numeric rank when appropriate**
Life Safety	1	
Property Protection	1	Project will protect roadways from flooding, culvert damages
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	Severe Storm, Flood
Timeline	0	Within 5 years
Agency Champion	1	Engineer, Highway
Other Community Objectives	1	
Total	12	
Priority (High/Med/Low)	High	

Town of Olean Action Worksheet			
Project Name:	Generator for Town Hall and Highway Garage		
Project Number:	2020-Town of Olean-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. Town Hall and Highway Garage lack a permanent power source. The Town Hall location houses the Town Hall, Court, and Clerk. The Highway Garage houses highway equipment and vehicles.		
Action or Project Intended for Implementation			
Description of the Solution:	The Town Engineer will research what size generator is necessary to supply backup power to the Town Hall and Highway Garage. The town will then install a backup power generator and necessary electrical components.		
Is this project related to a Critical Facility?	Yes ☒	No ☐	
Is this project related to a Critical Facility located within the Special Flood Hazard Area?	Yes ☒	No ☐	
(If yes, this project must intend to protect the 0.2%-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	No power loss	**Estimated Benefits (losses avoided):**	Ensures continuity of operations of Town Hall and Highway Garage
Useful Life:	30 years	**Goals Met:**	2
Estimated Cost:	$50,000 per generator	**Mitigation Action Type:**	Structure and Infrastructure
Plan for Implementation			
Prioritization:	High	**Desired Timeframe for Implementation:**	Within 2 years
Estimated Time Required for Project Implementation:	6 months	**Potential Funding Sources:**	HMGP, BRIC, Municipal Budget
Responsible Organization:	Town Board, Engineer	**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.
	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:	Generator for Town Hall and Highway Garage	
Project Number:	2020-Town of Olean-003	
Criteria	**Numeric Rank (-1, 0, 1)**	**Provide brief rationale for numeric rank when appropriate**
Life Safety	1	Project will protect critical services of Town Hall and Highway Garage.
Property Protection	1	Project will protect Town Hall and Highway Garage 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	0	
Social	1	
Administrative	1	
Multi-Hazard	1	All Hazards
Timeline	1	6 months
Agency Champion	1	Town Board, Engineer
Other Community Objectives	1	Critical facilities protected
Total	12	
Priority (High/Med/Low)	High	

Town of Olean Action Worksheet			
Project Name:	Relocation or elevation of Town Hall		
Project Number:	2020-Town of Olean-010		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood, severe storm		
Description of the Problem:	Town Hall located at 2634 Rt 16 is in the floodplain and exposed to flooding. Town Hall is a critical facility and needs to be protected to the 0.2% annual chance flood event.		
Action or Project Intended for Implementation			
Description of the Solution:	Conduct an engineering study to determine best action (relocation or elevation) to protect Town Hall from flooding and implement selected cost-effective action.		
Is this project related to a Critical Facility?	Yes ☒	No ☐	
Is this project related to a Critical Facility located within the Special Flood Hazard Area?	Yes ☒	No ☐	
(If yes, this project must intend to protect the 0.2%-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 of Town Hall
Useful Life:	TBD on engineering study	**Goals Met:**	2
Estimated Cost:	TBD on engineering study	**Mitigation Action Type:**	Structure and Infrastructure
Plan for Implementation			
Prioritization:	Medium	**Desired Timeframe for Implementation:**	Within 5 years
Estimated Time Required for Project Implementation:	1 year	**Potential Funding Sources:**	HMGP, BRIC, town budget
Responsible Organization:	Town Board, FPA, Engineer	**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 Town Hall	$0	Still need a Town Hall
	Build levee around facility	N/A	No space for full levee system
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			

Action Worksheet		
Project Name:	Relocation or elevation of Town Hall	
Project Number:	2020-Town of Olean-010	
Criteria	**Numeric Rank (-1, 0, 1)**	**Provide brief rationale for numeric rank when appropriate**
Life Safety	1	Project will protect critical services of Town Hall
Property Protection	1	Project will protect Town Hall from flood damage.
Cost-Effectiveness	1	
Technical	1	
Political	0	
Legal	1	The town has the legal authority to complete the project.
Fiscal	0	Project requires funding support.
Environmental	0	
Social	0	
Administrative	1	
Multi-Hazard	1	Flood, Severe Storm
Timeline	0	Within 5 years
Agency Champion	0	Town Board, FPA, Engineer
Other Community Objectives	1	Protection of critical services
Total	8	
Priority (High/Med/Low)	Medium	

Town of Olean Action Worksheet			
Project Name:	Trim tree limbs away from buildings and structures.		
Project Number:	2020-Town of Olean-012		
Risk / Vulnerability			
Hazard(s) of Concern:	Storms (ice, winter, severe, tornadoes)		
Description of the Problem:	The town does not have a tree trimming program in place. It is unknown the safety of trees throughout the town. During wind events or heavy snow, falling tree branches can damage utilities and private property.		
Action or Project Intended for Implementation			
Description of the Solution:	The town will develop a tree trimming maintenance program and remove trees that pose a threat to structures		
Is this project related to a Critical Facility?	Yes ☐	No ☒	
Is this project related to a Critical Facility located within the 100-year floodplain?	Yes ☐	No ☒	
(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):**	Reduction in power loss and property protection
Useful Life:	TBD	**Goals Met:**	2
Estimated Cost:	$3,000	**Mitigation Action Type:**	Structure and Infrastructure
Plan for Implementation			
Prioritization:	High	**Desired Timeframe for Implementation:**	1 year
Estimated Time Required for Project Implementation:	3 months	**Potential Funding Sources:**	HMGP, BRIC, municipal budget
Responsible Organization:	Highway Department	**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.
	Contract tree trimming service out	$10,000	Costly
	Relocate critical facilities	N/A	Not feasible

Progress Report (for plan maintenance)	
Date of Status Report:	
Report of Progress:	
Update Evaluation of the Problem and/or Solution:	

Action Worksheet		
Project Name:	Trim tree limbs away from buildings and structures.	
Project Number:	2020-Town of Olean-012	
Criteria	**Numeric Rank (-1, 0, 1)**	**Provide brief rationale for numeric rank when appropriate**
Life Safety	0	
Property Protection	1	Facilities protected from destruction and power outages
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	Town has legal authority to complete project
Fiscal	0	The town will need funding support
Environmental	1	
Social	1	Public supports this project
Administrative	1	
Multi-Hazard	1	
Timeline	1	
Agency Champion	1	Highway Department
Other Community Objectives	1	Critical facilities protected
Total	12	
Priority (High/Med/Low)	High	

Town of Olean Action Worksheet			
Project Name:	Erosion control of Godfrey Hollow Rd, McCann Hollow Rd, Steam Valley Rd, and Oregon Rd		
Project Number:	2020-Town of Olean-015		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood, Severe Storm		
Description of the Problem:	Erosion of roadside ditches along Godfrey Hollow Rd, McCann Hollow Rd, Steam Valley Rd, and Oregon Rd due to heavy rain events.		
Action or Project Intended for Implementation			
Description of the Solution:	The town will place riprap along roadside ditches to hold soil and slow water back and prevent them from washing out roads.		
Is this project related to a Critical Facility?	Yes ☐	No ☒	
Is this project related to a Critical Facility located within the Special Flood Hazard Area?	Yes ☐	No ☒	
(If yes, this project must intend to protect the 0.2%-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	N/A	**Estimated Benefits (losses avoided):**	Roads protected from flooding
Useful Life:	30 years	**Goals Met:**	2
Estimated Cost:	$6,000	**Mitigation Action Type:**	Structure and Infrastructure
Plan for Implementation			
Prioritization:	High	**Desired Timeframe for Implementation:**	2 years
Estimated Time Required for Project Implementation:	1 year	**Potential Funding Sources:**	HMGP, BRIC, operating budget
Responsible Organization:	Highway Department	**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 road	$20,000	Roadway cannot be removed
	Relocate road to another location	$50,000	Roadway will still need to cross stream, costly

Progress Report (for plan maintenance)	
Date of Status Report:	
Report of Progress:	
Update Evaluation of the Problem and/or Solution:	

Action Worksheet		
Project Name:	Erosion control of Godfrey Hollow Rd, McCann Hollow Rd, Steam Valley Rd, and Oregon Rd	
Project Number:	2020-Town of Olean-015	
Criteria	**Numeric Rank (-1, 0, 1)**	**Provide brief rationale for numeric rank when appropriate**
Life Safety	1	Roads safe for drivers
Property Protection	1	Roads protected from erosion and flooding
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	Town has legal authority to complete project
Fiscal	0	Project requires funding support
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	1	Flood, Severe Storm
Timeline	0	
Agency Champion	1	Highway Department
Other Community Objectives	1	
Total	12	
Priority (High/Med/Low)	High	