



CITY OF SCHENECTADY, NY STOCKADE FLOOD MITIGATION PROJECT



Save the Dates! APRIL 2019

Please bring your ideas to a series of three community workshops that will guide the City as it identifies the best approach to reduce the impact of flooding in the Stockade with funding through FEMA. Our designers need your input.

BUILDING A RESILIENT STOCKADE

Three community events to help shape the design:

7:00 pm - 9:00 pm on April 1st, 3rd & 4th

First Reformed Church
8 North Church Street
Schenectady, NY 12305

Use main entrance to the Poling Building

PLEASE COMPLETE THE IMPORTANT SURVEY that you receive in the mail or online at www.stockaderesilience.com to ensure that all flood impacts for your property are understood!

ABOUT THE PROJECT

Stockade Neighborhood Flood Mitigation Project

The City of Schenectady has been awarded funding to assist property owners to preserve their homes by evaluating flooding, examining feasible alternatives and choosing the preferred flood mitigation strategy. Funding is provided by the Federal Emergency Management Association (FEMA) Hazard Mitigation Grant Program (HMGP) through the New York Department of Homeland Security and Emergency Services (DHSES.) This work builds on design guidelines developed in 2017 with funding from NYS Office of Parks, Recreation, and Historic Preservation (OPRHP). The project is divided into two phases:

Phase One: Comprehensive Mitigation Analysis. Funds in the amount of \$1,206,000 have been awarded for Phase One and are being used to evaluate existing conditions, assess alternatives, recommend a preferred flood mitigation strategy and design improvements to benefit the Stockade Study Area.

Phase Two: Construction. Based on Phase One results, FEMA will consider awarding just over \$7,545,000 for Phase Two Construction.



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STUDY AREA

The preliminary study area for the project is defined as the area containing **all primary structures** that are:

- located within the **100 year floodplain** AND
- also within the Stockade **National Register Historic District boundary**.

**YOUR VOICE
MATTERS!**

STAY INVOLVED

www.stockaderesilience.com
stockaderesilience@gmail.com

For additional information
or to arrange for accessibility
accommodations contact:

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ABOUT THE PROJECT...continued

Phase One will be complete by June 2020.

The project begins by identifying a range of potential mitigation approaches by:

- Evaluating the **causes and impacts of flooding** in the Stockade study area from wet weather events, hurricanes, seasonal thaw and ice jams and completing engineering, hydrological, environmental, natural resource, and other assessments.
- Evaluating **existing conditions** in the Stockade study area, documenting which areas are most vulnerable to flooding and completing architectural, urban design, landscape architecture, ecological and related assessments.
- Evaluating all identified **potential mitigation measures** by preparing **technical studies and designs** with cost estimates, level of protection, technical feasibility, cost effectiveness and Environmental, Historic & Preservation (EH&P) impacts for each alternative.
- Selecting the **best practicable preferred mitigation strategy**, completing a design development process, and providing a final scope of work and design for the selected mitigation alternative to be proposed for construction in Phase Two.
- Conducting a **comprehensive community engagement process** including meetings, focus groups, interviews, and a project website (www.stockaderesilience.com).
- The City has retained the services of **River Street Planning & Development** to assist with project management and community engagement (www.riverstreet.org).
- Technical services will be coordinated by a team of professionals led by **Mesick Cohen Wilson Baker Architects** that includes engineers, community designers, hydrologists and cultural resource specialists (MCWB-arch.com).



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SCOPE OF WORK

The scope of work will build over four components based upon the findings at each stage:

COMPONENT 1

Assessment

Component IA: Preliminary Assessment (Data Collection and Analysis of the Stockade Today).

- Compile a database of information and **document areas vulnerable to flooding.**
- Collect and analyze data to understand existing conditions in the Study Area.
- Survey property owners for information to ensure that all flood impacts are understood.
- Complete all necessary environmental, natural and cultural resource and other required assessments necessary to understand flooding and determine environmental impacts related to a range of potential mitigation measures.
- Collect all data in a manner that supports future **NEPA, SEQRA and permit documentation.**

Component IB: Selection of Flood Mitigation Alternatives (Community Design Workshop and Preliminary Conceptual Design).

- Identify the full range of **potential flood mitigation measures.**
- Consider a full range of potential strategies including, but not limited to, elevation or relocation of structures, flood walls or berms, green infrastructure, or changes to street grades.
- Conduct a four day interactive Community Design Workshop to determine the **selected flood mitigation alternatives** for further evaluation.
- Document and recommend a set of mitigation alternatives/combination of alternatives for detailed evaluation.

COMPONENT 2

Evaluation of Alternatives

Component II: Evaluation of Flood Mitigation Alternatives and Recommendation for the Preferred Mitigation Strategy.

- **Refine the scope of work and budget based on Component I findings and input.**
- Evaluate each of the **selected flood mitigation alternatives** emerging from the workshop in detail to determine feasibility and cost effectiveness.



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COMPONENT 2 ...continued

- Complete all necessary engineering and related tasks to evaluate each alternative including analysis of hydrology, civil engineering, transportation, urban design, environmental conditions, architecture and cultural resources.
- Prepare a complete **benefit cost analysis (BCA)** using FEMA's required modeling program and software for each alternative.
- Recommend the **preferred flood mitigation strategy** for the Study Area.

COMPONENT 3

Design Development

Component III: Design Development of Preferred Mitigation Strategy for the Stockade Neighborhood.

- **Determine the final scope of work and budget to advance design based on Component II findings and input.**
- Complete design to the level necessary to prepare a detailed cost estimate.
- Demonstrate how the alternative is fully compliant with NEPA and SEQRA requirements and documents.
- Prepare final BCA evaluation.
- Identify all construction requirements including the full range of required permits appropriate for the preferred alternative.
- Complete all tasks necessary to recommend the preferred alternative and secure approval by the City, FEMA, NYS DHSES and NYS SHPO, Tribal Nations, other potential involved agencies and regulators.

COMPONENT 4

Construction Documents

Component IV: Final Construction Documents and Proceeding to Phase II: Construction Approval.

- **Determine the final scope of work and budget to advance construction documents based on Component III design findings and input.**
- Provide all materials necessary to proceed to Phase Two construction of the preferred alternative.
- Prepare a Request for Proposals for Phase Two Professional Services to construct the improvements.