

Flood Mitigation Progress

October
2025



A severe flood risk persists in the Village of Mamaroneck, NY along the Mamaroneck River and Sheldrake River based on the recurrence of flood events and the damages sustained.

The largest floods of record resulted from the storms of October 1955, June 1972, September 1975, and April 2007. Extensive damages and loss of life have occurred during these major flood events.

Most recent Major Storms

September 1, 2021

September 29, 2023

A combination of

- low channel capacity
- small bridge openings (pipes/abutments)
- developmental encroachment along both rivers (building up to the wall of the rivers)
- Urbanization (river was moved)
- poor flow conveyance at the confluence of both rivers (elbow bends)

Sources of Flood Water

- Rain/sky
- Aquifer/ground
- Harbor/coast
- Upstream Communities

Available Reports

- ACE – Army Corps of Engineers 2017
- NYSDEC – Resilient NY Studies
 - Beaver Swamp Brook 2024
 - Mamaroneck/Sheldrake Rivers 2023
- Assistant Village Manager Presentation 6/23/25
- Washingtonville Drainage Study (Final report due December 2025)

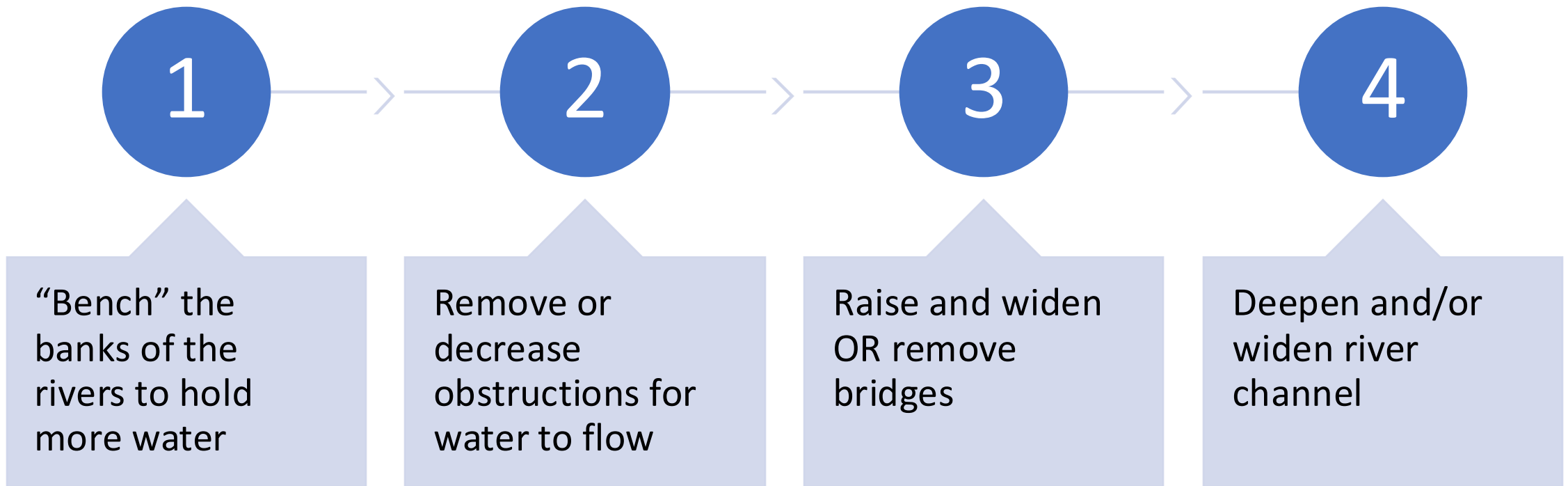
ACE – Army Corps of Engineers

- Project was \$59m, then \$88m, now at \$154m
- Project needs to reach 30% of design to move forward
- Currently at 90% to design of demolition of one bridge
- Locations scouted for testing
- Establishing Right of Entry
- Multiple MOUs in process
- PPA pending

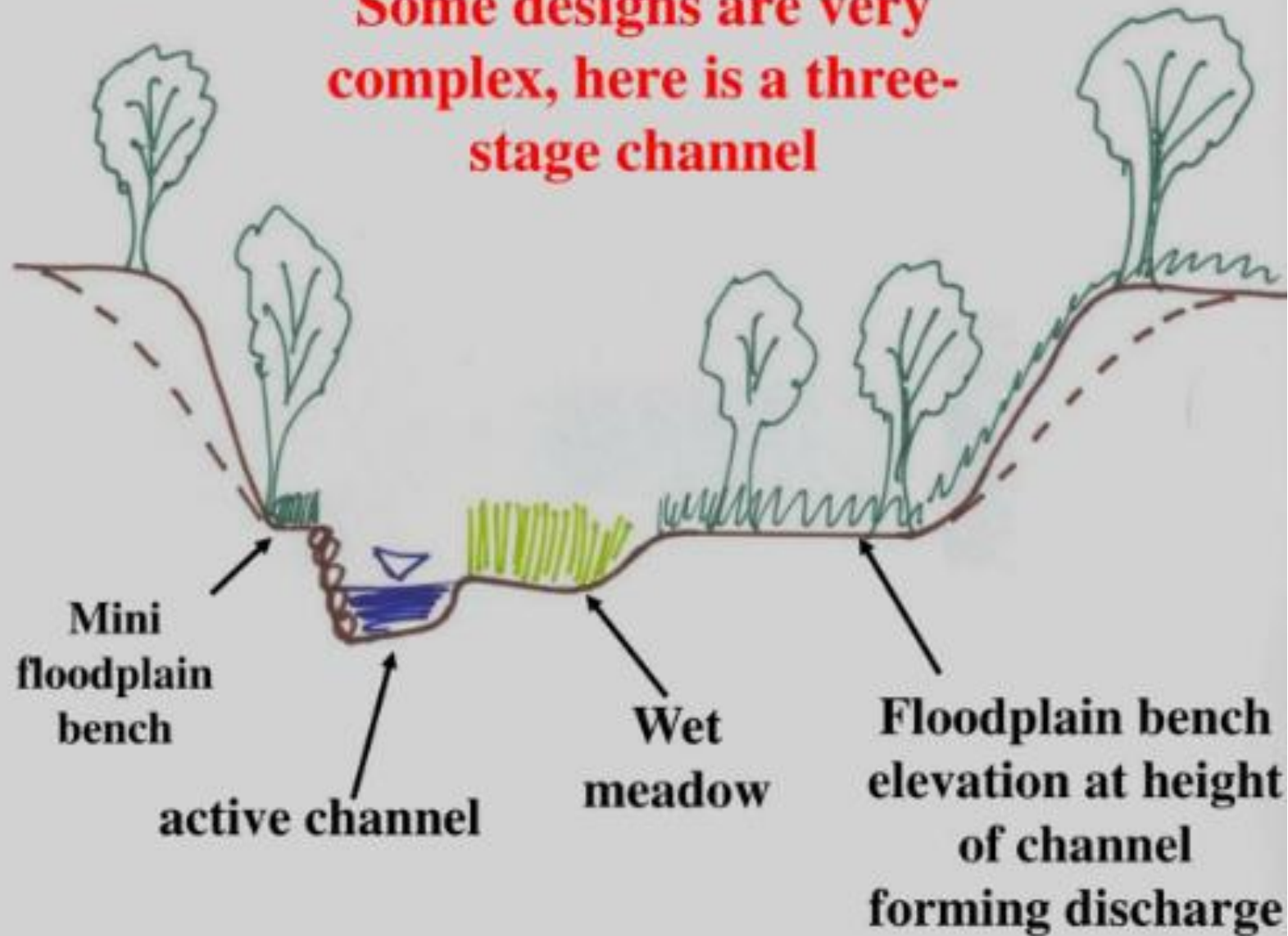
ACE and Resilient NY

- Best plan, not necessarily one that matches report exactly
- ACE will monitor projects
- Amendments are ok for MOU
- Projects must meet same qualifications/same level of mitigation

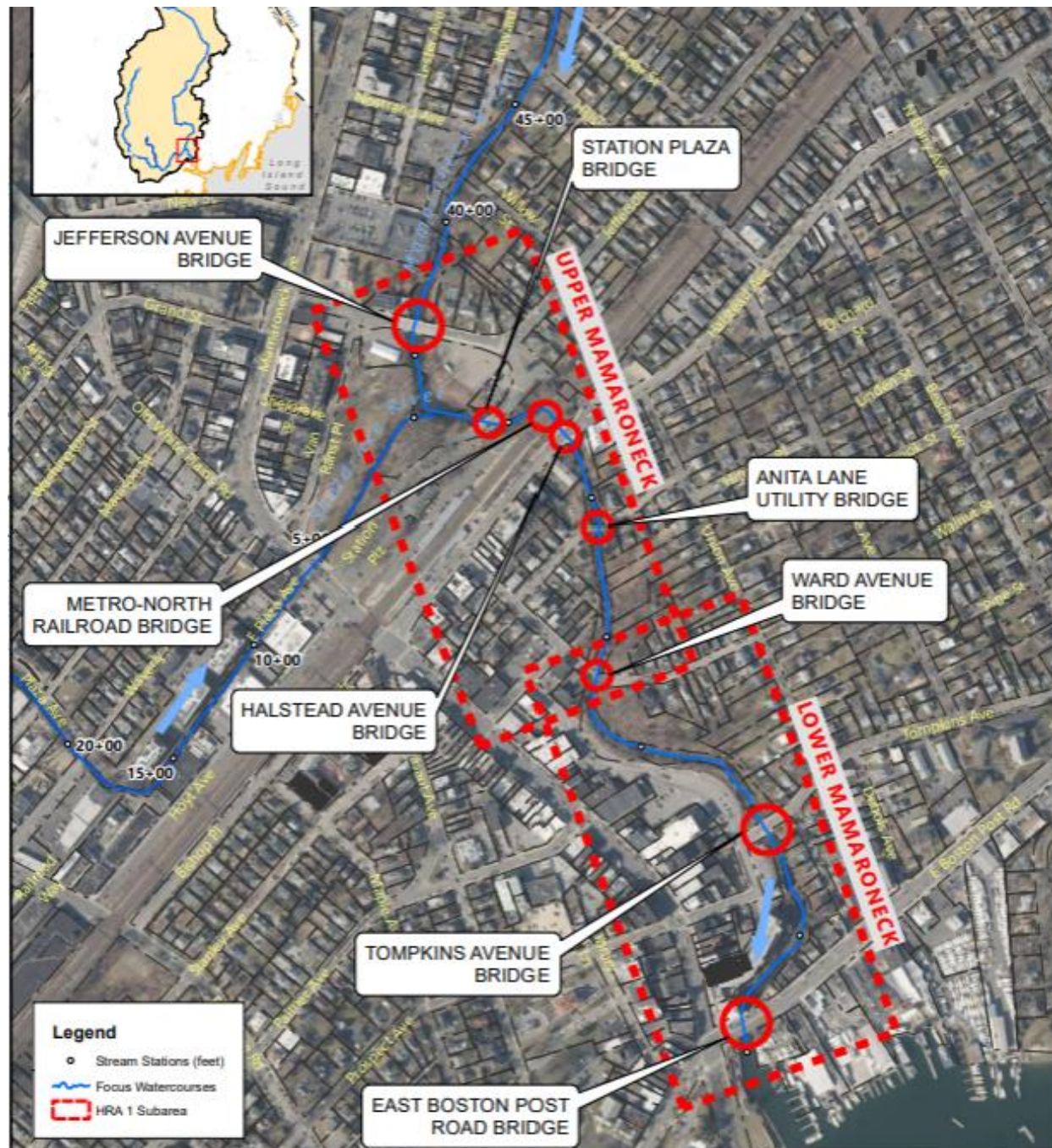
Downstream Priorities – Creating Capacity



Some designs are very complex, here is a three-stage channel



Sheldrake and Mamaroneck Rivers



Tompkins Avenue Bridge

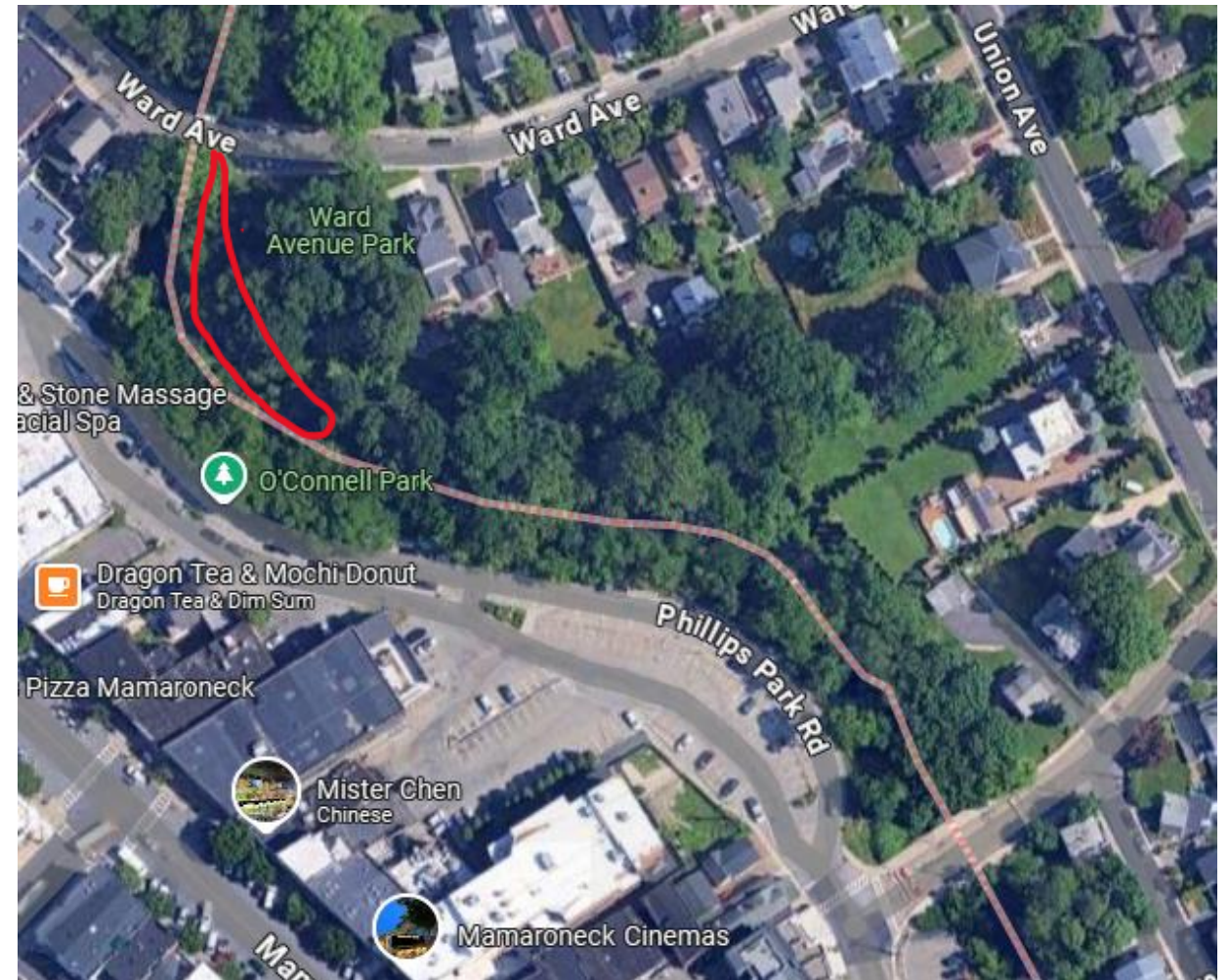
- Village Owned
- Most downstream bridge
- Out since 9/1/21
- Pipe running underneath
- Funding
 - Denied by FEMA twice
 - Submitted for removal with RWG 2025
 - Applied for Congressional Directed Spending Program (Latimer/Schumer/Gillibrand)
 - Waiting for Bridge NY Grant



Figure 4-13: Looking upstream at Tompkins Avenue bridge. Passage across the bridge has been closed off due to structural concerns. A utility line is seen suspended underneath the bridge deck at the inlet.

Ward Avenue Park Floodplain Benching

- Create capacity for storm water
- Received Funding under NYS GRG grant awarded in 2024



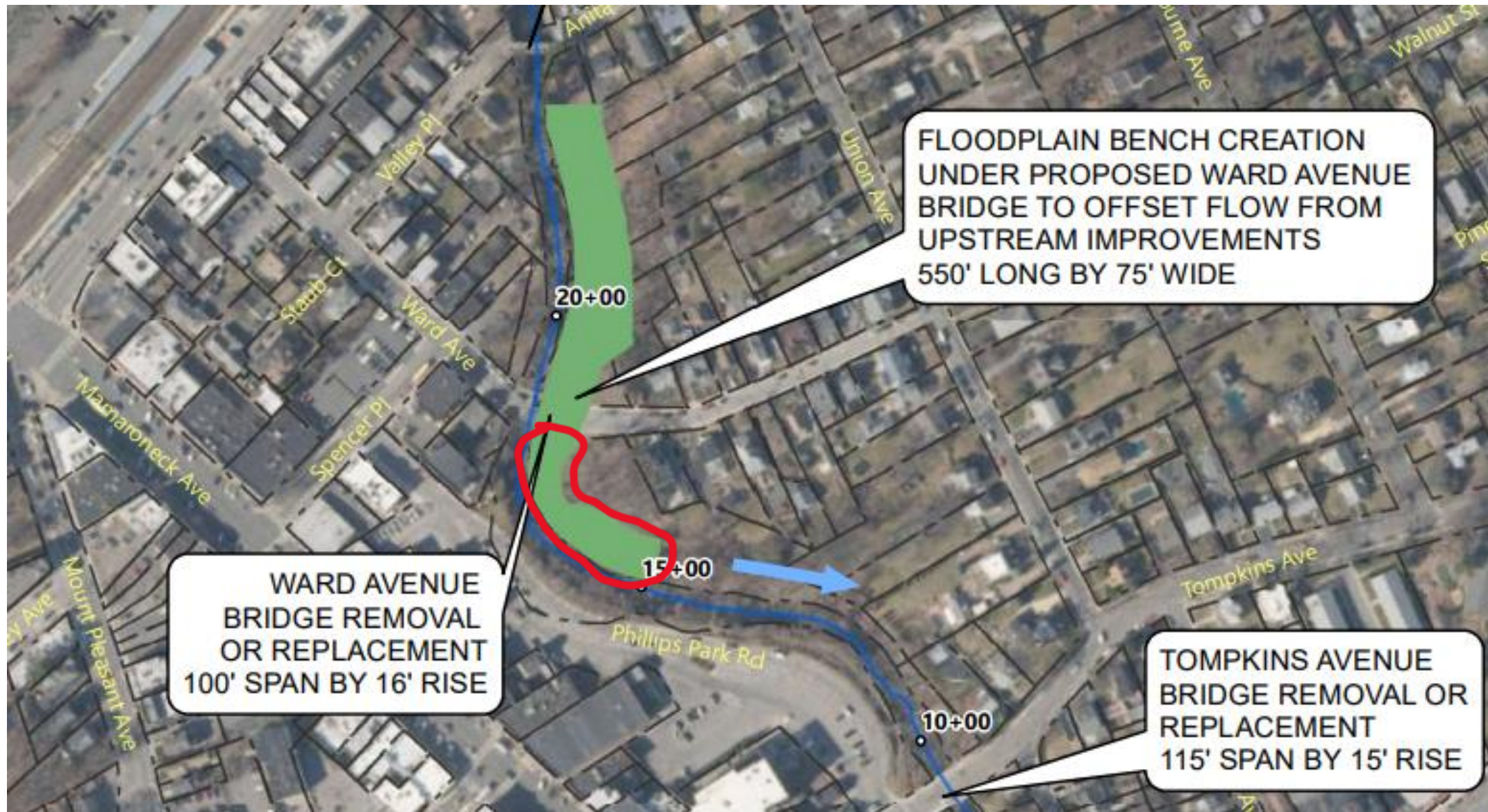
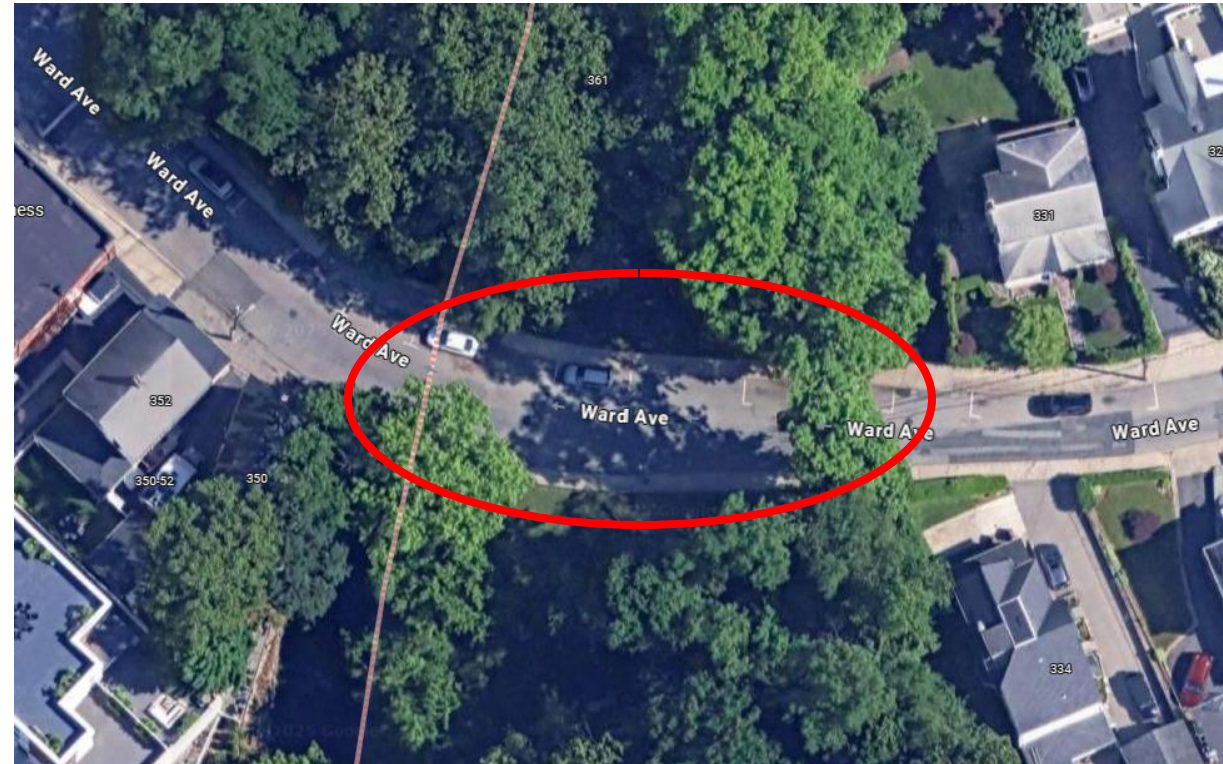




Figure 4-14: Standing on top of Ward Avenue looking downstream at a narrow and confined Mamaroneck River channel.

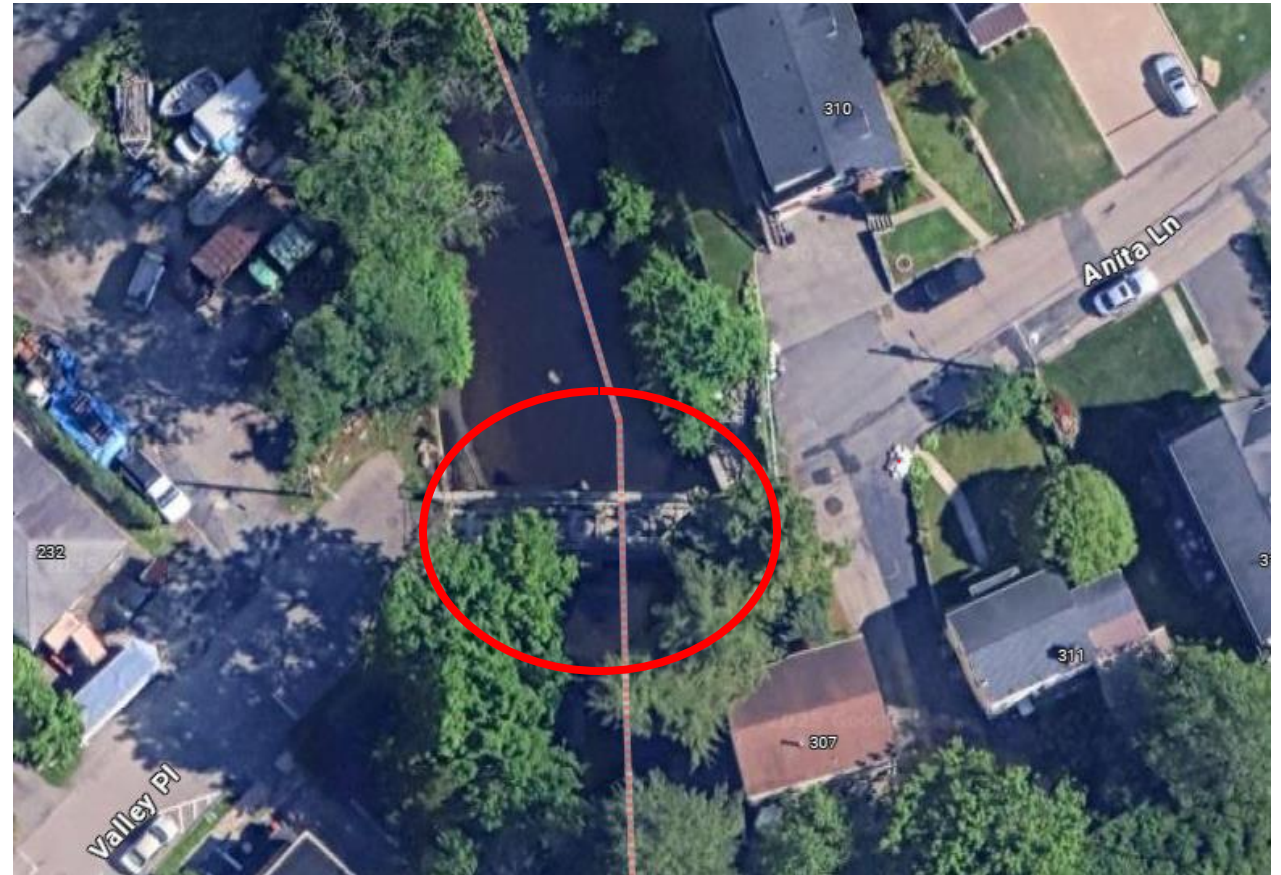
Ward Avenue Bridge

- Village Owned
- Army Corps of Engineers (ACE) project
 - Requesting a Memorandum of Understanding (MOU) between ACE, NYS, Westchester County and the Village
 - Allow Village (through Westchester County) to take over one ACE project to move forward faster
 - Currently working on multiple MOUs amongst municipalities
 - County will use their “share” to fund the project



Anita Lane Bridge

- Westchester County Owned
- Sewage pipe within bridge
- Bonded for design in 2025
- Planning/Engineering/Design to start early 2026
- To be removed and replaced
- Will NOT be replaced as a pedestrian bridge



Halstead Avenue Bridge

- Westchester County Owned
- Bonded for design in 2025
- Planning/Engineering/Design expected to start early 2026



Confluence

- Village Owned
- Confluence/Floodplain Benching
 - Smooth out the river to reduce angles and increase water capacity
 - “bench” river edges to take on more water during storms
- Additional Future Projects
 - Station Plaza Bridge
 - Foot Bridges (in ACE plan)
 - Parking Lot
- Funds Awarded through GRG grant in 2024



Center Avenue Bridge

- Pedestrian Bridge to be removed
- Requested grant funding through Resilient Watershed Grant (RWG)



Washingtonville Drainage

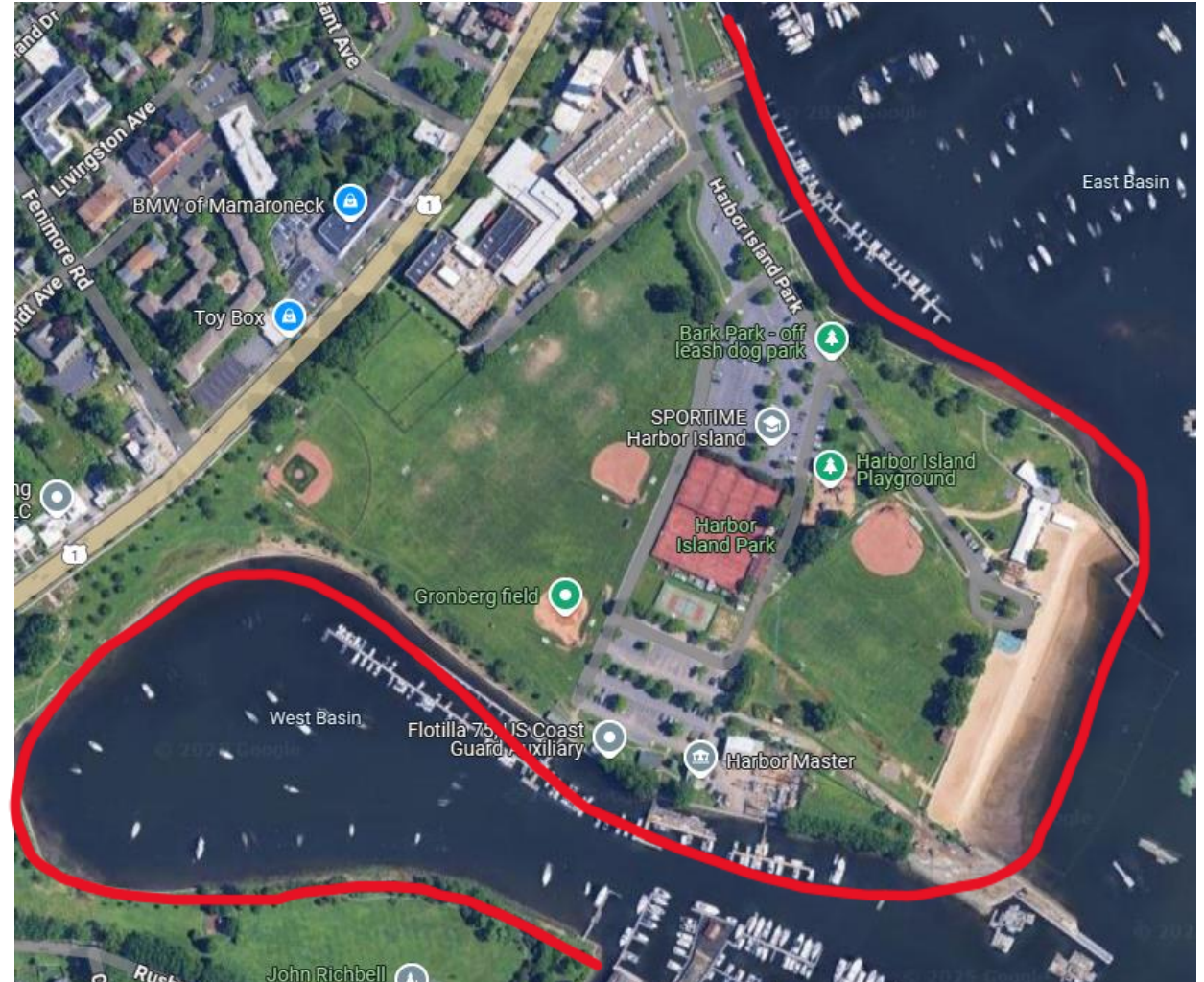
- Village Owned
- Draft submitted June 2025/Final report due to Village December 2025
- Funding
 - We presented to the County in May with an ask to support this project





Seawall

- Village Owned
- 1.5 miles of seawall
- Advisory Committee formed
- RFP is nearly ready
- Study will cost \$600k
 - Received funding of \$450k



Beaver Swamp Brook



Condominium Walking Bridge

- Village Owned Pipe
 - To be rerouted to a different system
- Town of Rye Owned Bridge
 - To be removed
 - Replacement contingent upon funding
- Joint application/Coordination
- Funding
 - Grant application for Climate Smart Communities and LWRP
- Estimated Cost \$2m



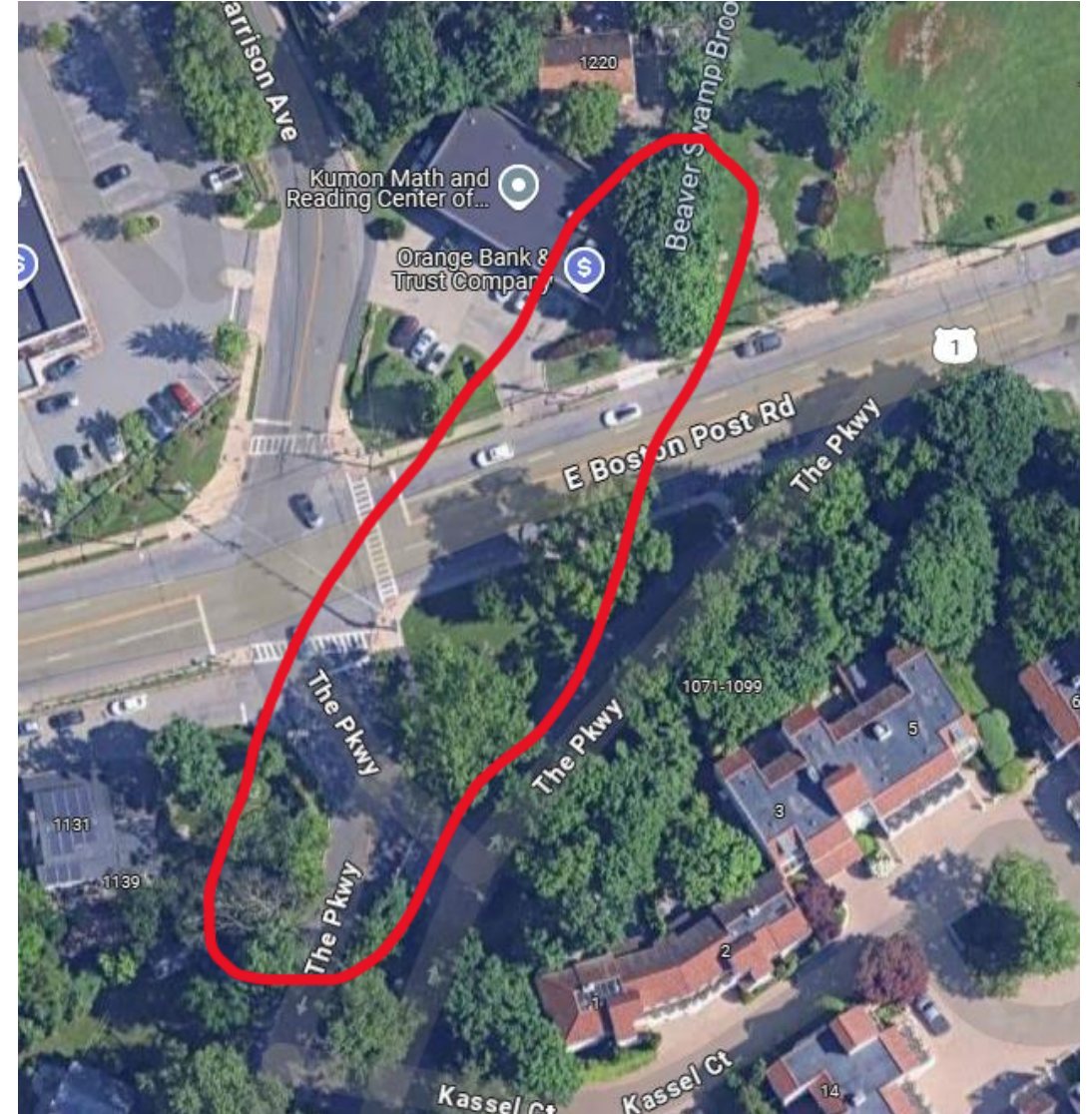
Bridge opening is
9.5'

Recommendation
to increase to 30'

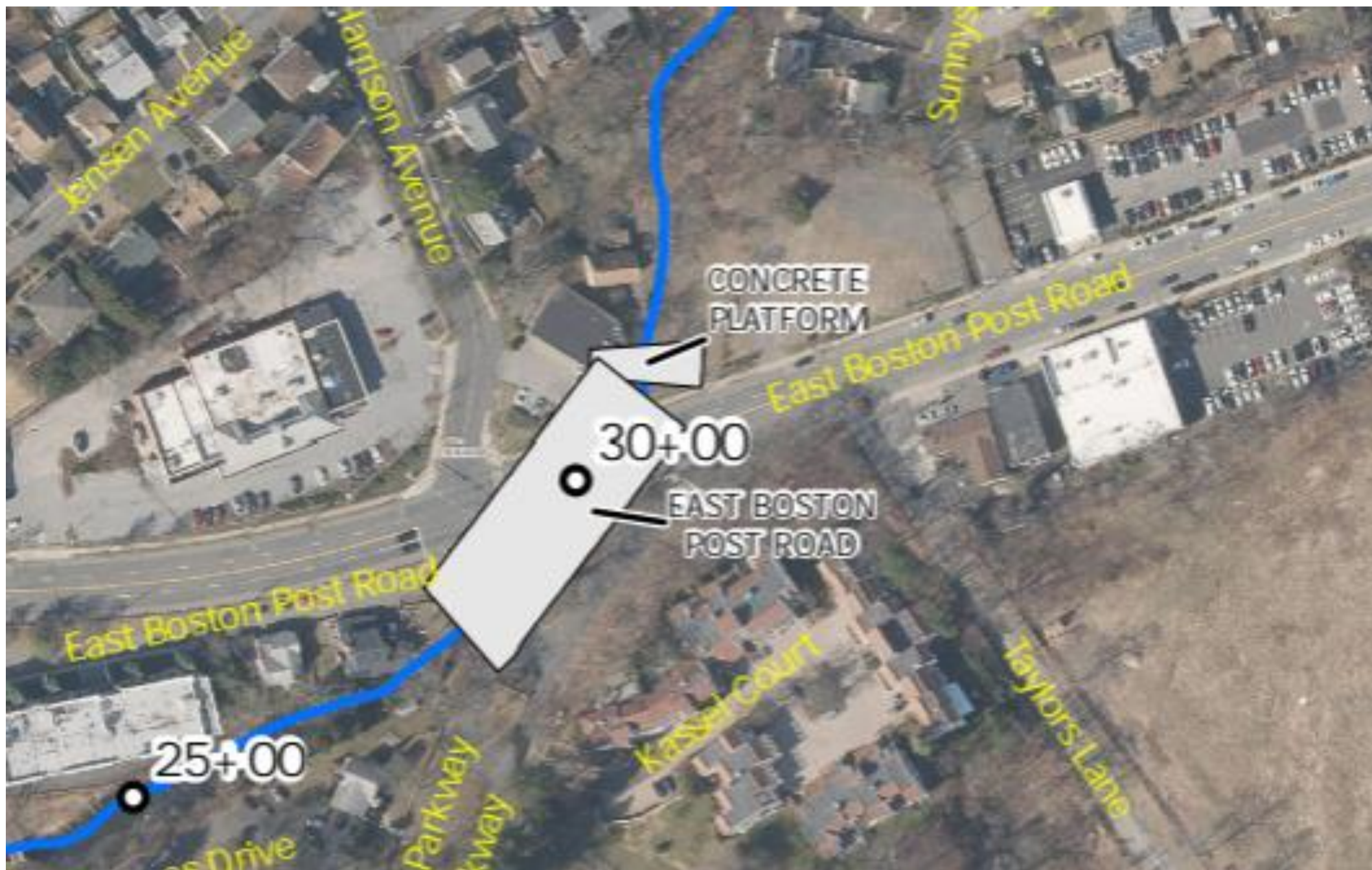


East Boston Post Road

- NYS Owned Road
- Request submitted to NYSDOT
- Inadequate bridge size







Grants Awarded

2024 \$6,600,000

GRG – Green Resiliency Grant

Floodplain benching at the
confluence and at Ward Avenue
Park

- Pending Applications

- RWG \$9,976,250

- LWRP \$1,000,000

- CSC \$1,000,000

- CSC \$230,608

Submitted Resilient Watershed Grant Application June 6, 2025

RWG – Resilient Watershed
Grant

\$9,976,250

- Unfunded portion of prior 2024 GRG
- Removal of Tompkins Avenue Bridge
- Removal of Center Avenue Bridge



Additional Grant Requests

- Climate Smart Communities
 - 4 stream gauges/cameras
 - Emergency Response Planning and Training
 - \$230,608
- FEMA
 - 7 home elevations
- SWIFT Current Program
 - 1 home elevation

Roles

- Mayor/Board
 - Legislation, Leadership and Budget Approval
- Staff
 - Project Management
 - Multi-million-dollar infrastructure recommendations
- Committee
 - Community Engagement
 - Short term project recommendations
- Community
 - Participation
 - Information

Committee

MISSION STATEMENT

The Village of Mamaroneck Flood Mitigation Committee “FMC” is a small working group of seven resident member who serve the Village's leadership in their endeavors to identify and participate in potential solutions to flooding while educating residents in green infrastructure and nature-based solutions as well as other flood mitigation measures and safeguards.

The committee will assist the Village’s leadership in community engagement and support Village staff in being an active participant working with neighboring communities to identify joint flood mitigation projects and identify projects in other communities that will negatively affect/increase flooding in the Village of Mamaroneck.

Sample Projects

- Sea Wall Study Project Advisory Committee
- Stormwater Code Review
- GIS Project community focus group
- Monitor the land use board agendas for neighboring municipalities/projects that make flooding worse
- Community engagement events and workshops
- Working with Dennis and DHSES to schedule an emergency preparation seminar
- Sand bag distribution
- National Flood Insurance Program and FEMA Recovery (property owners/renters)
- Research such as river gages, permeable asphalt, bulk purchasing

National Flood Insurance Program (NFIP)

- The village participates in the National Flood Insurance Program (NFIP) and the Community Rating System (CRS)
 - The CRS can lower flood insurance premiums for policyholders
 - Visit the village's official website to learn more about Flood Risk. <https://www.villageofmamaroneckny.gov/building-department/pages/community-rating-system-national-flood-insurance-program>
 - Online and Print materials are available in English and Spanish
- Additional information on flood damage reduction is available from the Building Department and the Village Engineer

Next Steps

- LISWIC
- Signed Agreements
- Bonding
- Grants 2025/26
- GIS - SLR
- Plan H2M
- Maintenance
- Buyouts
- Elevations
- Additional Bridges
- Columbus Park/Confluence
- Upstream projects
- Dam/Reservoir
- Community Involvement

Summary

- The Village is moving forward with a downstream first approach to create capacity
- ACE, NYSDEC, Westchester County and the Village are working together to move ACE projects forward
- Projects from both ACE and Resilient NY are being considered
- ACE has agreed to include Resilient NY projects and possible changes
- Over \$6m has been granted as of 2024
- Approximately \$12m has been requested in 2025
- The county projects will exceed \$30m in investment



QUESTIONS?