WESTCHESTER COUNTY STREAMS, BYRAM RIVER BASIN, CT & NY FLOOD RISK MANAGEMENT PROJECT

Public Meeting
Village of Port Chester, NY

5 June 2025 at 6:30PM













BYRAM RIVER FLOOD RISK MANAGEMENT AGENDA



- Introduction
- Background
- Recommended Plan
- Cost Estimate and Cost Share of the Recommended Plan
- Design/Construction Consideration
- Design Scope of Work
- Design Status Update
- Design Schedule

BYRAM RIVER FLOOD RISK MANAGEMENT HISTORY



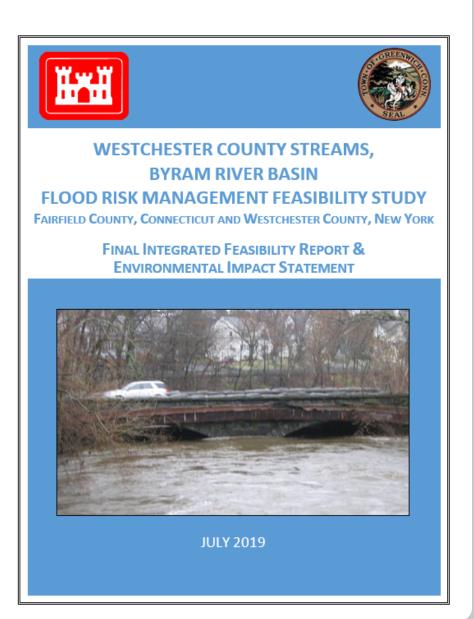
The Byram River Basin feasibility study was conducted to determine if there is a technically feasible, economically justifiable, and environmentally acceptable recommendation for federal participation in a flood risk management project.

A Final Integrated Feasibility Report and Environmental Impact Statement was completed, **recommending the removal and replacement of the two U.S. Route 1 bridges** on the border of Port Chester, NY and Greenwich, CT.

The study was completed in 2020.

The project was authorized in Section 401 of Water Resources Development Act (WRDA) of 2020.

The design phase was initiated in April 2023 with execution of the Design Agreement with Town of Greenwich as the non-Federal Sponsor for the project.

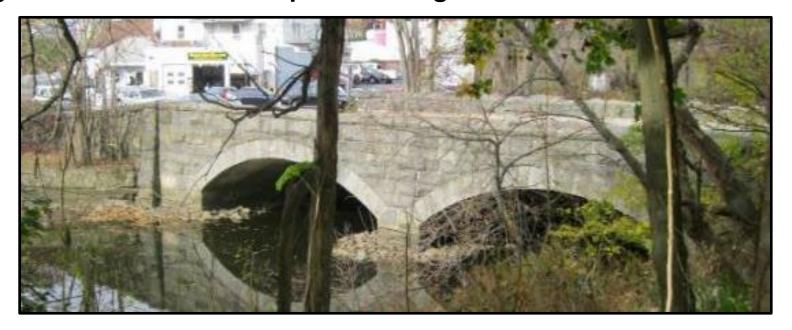




BYRAM RIVER FLOOD RISK MANAGEMENT RECOMMENDED PLAN



The recommended plan proposes removal of the U.S. Route 1 bridges and replacing them in the same footprint at a higher elevation and with no center piers.



One of the existing U.S. Route 1 bridges

The existing U.S. Route 1 bridges constrict the flow of the Byram River, increasing the water surface elevation upstream of the bridges and inducing flooding.

- Large central piers
- Low roadway profiles



BYRAM RIVER FLOOD RISK MANAGEMENT PROJECT LOCATION





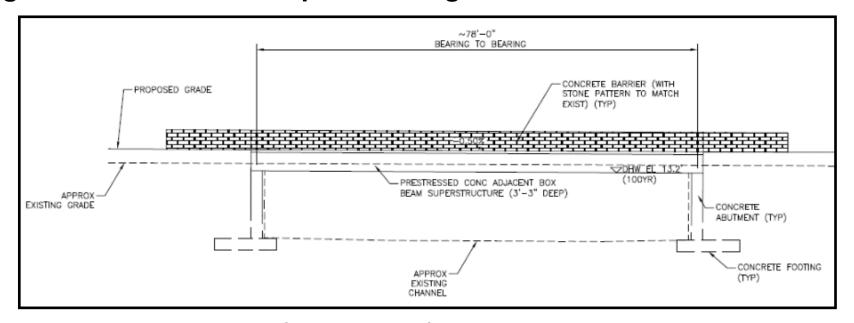
- 1. West Putnam Avenue/ U.S. Route 1 Eastbound Bridge over Byram River, Port Chester, New York and
- 2. Hillside Avenue/ U.S. Route 1 Westbound Bridge over Byram River, Port Chester, New York, for the purpose of flood risk management.



BYRAM RIVER FLOOD RISK MANAGEMENT RECOMMENDED PLAN



The recommended plan proposes removal of the U.S. Route 1 bridges and replacing them in the same footprint at a higher elevation and with no center piers.



Conceptual design of new bridges

The proposed U.S. Route 1 bridges would not have central abutments and would have higher roadway profiles. The bridges would manage flood risk by:

- Reducing the floodplain extent,
- Reducing water surface elevations during riverine events, and
- Decreasing the risk of flood damages to structures

BYRAM RIVER FLOOD RISK MANAGEMENT **PROJECT COST ESTIMATE & SPONSOR**



Pre-Construction Engineering & Design Cost Estimate (PED): \$5,470,000

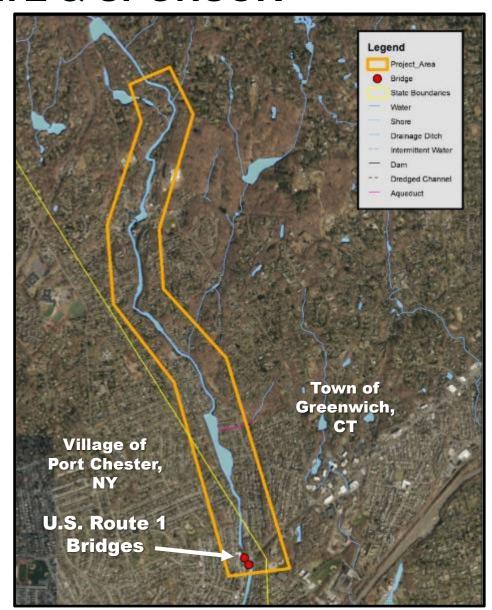
Project Cost Share: PED is 100% Federally Funded. Construction will be cost shared 50% Fed and 50% Non-Fed.

Project Appropriations: Disaster Relief Supplemental Appropriations Act of 2022 (DRSAA) appropriated \$5.4M for PED and \$35M for construction.

Non-Federal Sponsor: Town of Greenwich

Key Partners/Stakeholders:

NY State Department of Transportation CT Department of Transportation Village of Port Chester, NY NY State Department of Environmental Conservation





BYRAM RIVER FLOOD RISK MANAGEMENT DESIGN/CONSTRUCTION CONSIDERATION



- Phased construction to ensure maintenance of traffic/continued connection/
 - One bridge will be replaced each year.
- New bridges will support the same traffic volume and maintain similar flow pattern as existing bridges.
 - Connecting roads will have to be raised to match new bridge elevation.
- Real Estate Acquisition including temporary and permanent easements
 - Consideration will be given for potential long lead time for easements
- ENV permits required from both NY and CT
- U.S. Route 1 Bridges are eligible for the National Register of Historic Places
 - Mitigation activities are underway in coordination with the New York and Connecticut State Historic Preservation Offices; i.e. documentation of bridges prior to demolition and sympathetic design of replacement bridges

BYRAM RIVER FLOOD RISK MANAGEMENT DESIGN SCOPE OF WORK



Byram River Bridge Scope of Work (SOW) outlines all tasks, design requirements, investigations, and coordination that is required for the design of the project.

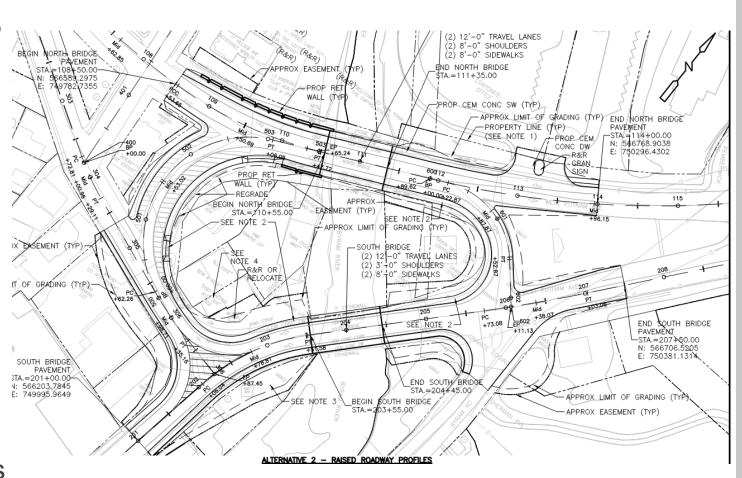
- Project Design Requirements In accordance with Federal, State, and Local design guidelines & standards.
- Coordination with USACE, A/E, State and local stakeholders such as Town of Greenwich, Village of Port Chester, NYSDOT, CTDOT, etc.
- Surveys/Investigation Utilities, Bathymetry, Topographic, HTRW, Geotech
- Traffic Study Including traffic flow analysis, accident prevention plan, signage
- Environmental consideration Cultural & Historic Resources; ENV permits, etc.
- Hydrology and Hydraulics (H&H) Modeling
- Value Engineering (VE) Study Week long review of design and cost study



BYRAM RIVER FLOOD RISK MANAGEMENT **CURRENT STATUS**



- Data Collection Surveys (Topographic, Bathymetric, Channel cross-sections)
- Traffic Study Work Plan & Reviews
- CT and NY DOT Right of Way Permits for Geotechnical Investigations (CTDOT complete/NYSDOT pending)
- Geotech Investigation scope of work and borings plan
- Calibrated Hydrology and Hydraulics model to latest rain event and project extents
- Right of Entry's (ROEs) coordination is ongoing with public and private landowners for Geotech investigation





BYRAM RIVER FLOOD RISK MANAGEMENT WHAT'S NEXT



- Process survey results
- Traffic Study and Analysis Report
- Geotechnical investigations (pending NYSDOT permit and ROEs)
- Environmental resource investigations
- Update Hydrology and Hydraulics modeling based on survey results
- Finalize bridge design
- Coordination with environmental regulatory agencies (NYSDEC & CT DEEP) and permit acquisition
- Engage property owners for temporary & permanent easements
- Coordination with NYSDOT, CTDOT and ToG for execution of the Project Partnership Agreement (PPA) to start Construction Phase.
- Award a single construction contract for both bridges



BYRAM RIVER ENGINEERING DESIGN SCHEDULE



Design Major Milestones	Date
Design Agreement Executed	18 April 2023
Design Contracted to AECOM	February 2024
Bridge Design Contract Awarded	21 November 2024
30% Design + Reviews	July 2025
60% Design + Reviews	October 2025
90% Design + Reviews	February 2026
100% Design + Reviews	April 2026
Backcheck Reviews	May 2026
P&S Approval (Design Acceptance)	June 2026
Project Partnership Agreement (PPA)	September 2026
Start of Construction Phase	October 2026*
Physical Construction Starts	Spring/Summer 2027

^{*} Start of the Real Estate acquisition process



BYRAM RIVER FLOOD RISK MANAGEMENT **KEY POINTS**



No flood risk management project can eliminate the risk of flooding.

Flood risk management reduces the frequency and/or severity of flooding and provides additional time to respond.

Communication of accurate and timely information about the risk of living in a flood prone area is critical and best implemented at the local level.

Flood risk reduction is a shared responsibility, and a collaborative approach is required to effectively manage the risk of flooding and save lives (USACE, FEMA, State, County, Local Gov., Emergency Personnel, Residents).

- Insurance
- Zoning
- Emergency Action Plan (EAP)
- Communication

U.S. ARMY

BYRAM RIVER FLOOD RISK MANAGEMENT



Questions?



BYRAM RIVER FLOOD RISK MANAGEMENT PROJECT CONTACT



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Project Webpage:

https://www.nan.usace.army.mil/Byram/



BYRAM RIVER FLOOD RISK MANAGEMENT



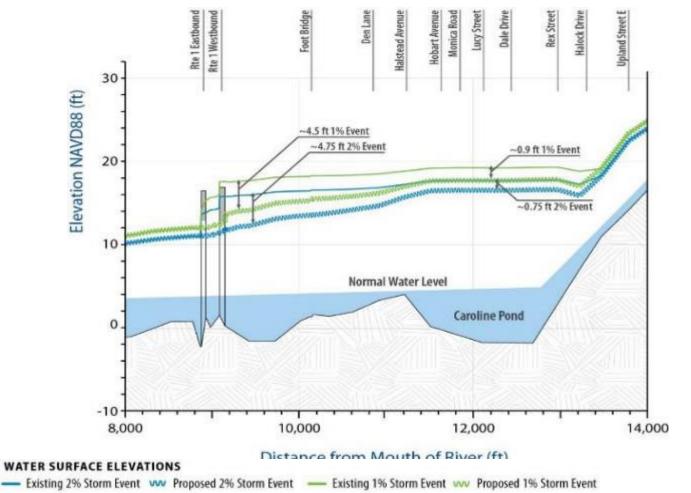
Back up Slides

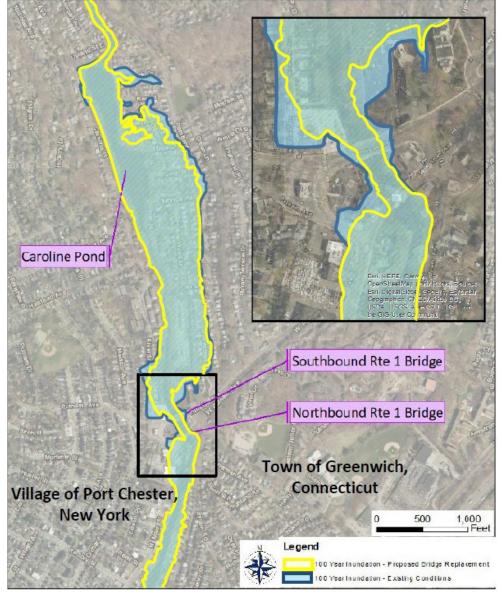


BYRAM RIVER FLOOD RISK MANAGEMENT RECOMMENDED PLAN



The proposed project will reduce flooding for about 0.9 mile upstream of the U.S. Route 1 Bridges by 1 -4 feet during a 1-percent flood event

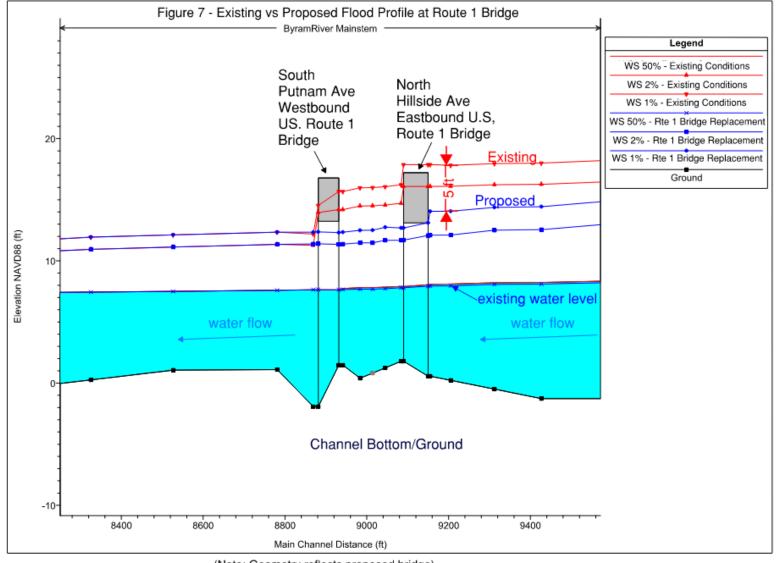






BYRAM RIVER FLOOD RISK MANAGEMENT RECOMMENDED PLAN





(Note: Geometry reflects proposed bridge)