



Maryland

Department of the Environment

Larry Hogan, Governor
Boyd K. Rutherford, Lt. Governor

Ben Grumbles, Secretary
Horacio Tablada, Deputy Secretary

COMPREHENSIVE FLOOD MANAGEMENT GRANT PROGRAM **APPLICATION FOR STATE FY 2024 CAPITAL PROJECT FINANCIAL ASSISTANCE**

For application assistance, please contact Jeff Fretwell at jeffrey.fretwell@maryland.gov or 410-537-3119 For technical assistance, please contact Walid Saffouri at walid.saffouri@maryland.gov

- State grant funds are generally available on June 1 of the year that funding was approved by the Maryland General Assembly. All projects must be approved by the Maryland Board of Public Works. MDE will not present projects to the Board of Public Works to encumber funds until all applicable requirements are met and typically not until construction bids are approved.
- All projects receiving State and/or Federal funding are required to comply with Minority and Women Business Enterprise (grant only projects) and Disadvantaged Business Enterprise (WQRLF projects) participation requirements. Please visit the following website: [M/WBE and DBE Guidance](#) for requirements, threshold levels, and forms.
- MDE will only accept applications for Comprehensive Flood Management Grant funds submitted electronically via email to mde.wqfa_announcement@maryland.gov. The subject line must say FLOOD APPLICATION. Applications are due by 11:59 PM on **January 31, 2022**. **Please note, maximum file size that can be accepted via email is 25MB. If you need assistance with large files please contact Jeff Fretwell.**
- In the email, please submit one SIGNED copy of the complete application, attachments, all supporting documents, and provide a FIRMette created from FEMA's Map Service Center website, <https://msc.fema.gov/portal/home>, a map from our outreach website, <https://mdfloodmaps.net/>, or a GIS map with the project location clearly identified.

I. APPLICANT INFORMATION

Applicant Name: (Must be a jurisdiction) Town of North Beach
Applicant Address: 8916 Chesapeake Avenue, PO Box 99
City: North Beach **County:** Calvert **ZIP:** 20714-0001
Federal Tax Identification Number: 52-0544956 (include 9-digit Zip Code)

Project Name: 9th Street Pump Station Modification
Project Address: Intersection of Atlantic Avenue and 9th Street
City: North Beach **County:** Calvert **ZIP:** 20714
 (Provide for location of the funded activity. If project spans large area, enter street address that best represents center of project area.)

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II. CONTACT INFORMATION

Contact Person: Donnie Bowen Title: Director of Public Works
 Contact Address: (include 9-digit Zip Code) PO Box 99, North Beach, MD 20714-0001
 Phone: 443.624.2161 Ext: _____ Email: dbowen@northbeachmd.org
 Contact Person: _____ Title: _____
 Contact Address: (include 9-digit Zip Code) _____
 Phone: _____ Ext: _____ Email: _____

III. PROJECT TYPE [Check appropriate project type.]

- ☐ Study
- ☐ Property Acquisition
- ☐ Elevation
- ☐ Measures to manage, reduce, treat, or recapture stormwater or subsurface drainage water.
- ☐ Stream/shoreline restoration
- ☐ Wetland creation or restoration
- ☐ Mitigate damage from Land Subsidence
- ☐ Mitigate damage from Mud/Landslide
- ☐ Mitigate damage from severe storm
- ☒ Nuisance Flooding
- ☐ Dam/Levee
- ☐ Other: _____

IV. PROJECT INFORMATION (Attach a copy of a current street map with the exact project location clearly marked.)

Project Name: 9th Street Pump Station Modification
 County: Calvert Latitude: (00.000000) 38.709876 Longitude: -76.529410
 See [Convert Project Address to Latitude/Longitude](#) for help.
 Congressional District: 5 [Find Congressional and Legislative Districts](#)
 Legislative District: 27B

River Basin Designation: Provide the numeric eight-digit watershed designation according to the project location (for wastewater treatment plants, identity according to the permitted point of discharge). [See Maps Here](#) for help.

Watershed Name: West Chesapeake Bay Eight-Digit Designation: 02 13 10 05
 NFIP CID: 2400128
<https://www.fema.gov/national-flood-insurance-program-community-status-book>

Does the Community participate in the National Flood Insurance Program? ☒ Yes ☐ No
 Does the Community have a Local Hazard Mitigation Plan in effect? ☒ Yes ☐ No
 Does the Community participate in the Community Rating System (CRS)? ☐ Yes ☒ No

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TAKE NOTE OF THE FOLLOWING WHEN COMPLETING THE REMAINDER OF THE APPLICATION

- ✎ Submittal of requested documentation is necessary for the evaluation of the application. Failing to submit requested documents can **significantly impact the final score and rank** of the project.
- ✎ When providing additional information on a separate page, please include the applicant and project name, and refer to the corresponding section number and heading of the application as specified.

- V. **PROJECT PURPOSE AND SUMMARY.** On a separate page titled "Project Purpose and Summary," provide a brief description of the project by answering questions a. through d. in the order shown.
- a. **What is the proposed project?** Include the existing and proposed modifications, length and size of any proposed structures, location and size of target area, drainage acreage, land use, acres restored, linear feet of stream restored etc. Consider the following in your description.
- Ground disturbance
 - Endangered or threatened species and critical habitats
 - Vegetation removed
 - Waterways within 200 feet
 - Dredging or disposal of dredged material
 - Located within 100- or 500-year flood zone
 - Altering water flow or drainage
 - Designated Coastal Zone
 - Site impact on 5 acres of farmland
 - Hazardous materials or contaminants disturbed or involved
- b. **What is the purpose of the project, why is the project needed, and what problem is being corrected?**
- Protect critical infrastructure (power, water and sewer, communications, emergency operations)
 - Mitigate Impact on historic or public site
 - Home has repetitive flooding
 - Mitigate flood impact on community, businesses
- c. **Who is the beneficiary of the project?** Does this affect/protect a low income or minority community?
- d. **Has the project previously or concurrently been submitted to MDE or any other government entity for funding consideration? If so, by what project name, has the scope of work changed since that submittal (explain how, if so), and was the project selected to receive funding?**
- VI. **PROJECT SUPPORTING DOCUMENTS** Please answer the questions below and provide supporting documentation as requested. Failing to submit the requested documents can significantly impact the final score and rank of the project.
- a. **Is the project necessary to address a public health issue (i.e.: contamination of drinking source water supply, surface water, or groundwater)?**
- ☒ **No** ☐ **Yes** Summarize on a separate page and provide information of contamination, contaminate levels, and frequency of occurrence from an approving authority.
- b. **Can the project be credited toward a local Watershed Implementation Plan (WIP) for the Chesapeake Bay Total Maximum Daily Load?**
- ☒ **No** ☐ **Yes** Summarize on a separate page and provide pertinent section(s) of local WIP.
- c. **Will the project work towards alleviating the effects of climate change? Provide resiliency?**
- ☐ **No** ☒ **Yes** Summarize on a separate page.

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- VII. **PROJECT SCHEDULE AND CURRENT STATUS** (Provide the project schedule and architectural/engineering (A/E) firm below.)

Current project status: ☐ Planning ☒ Design ☐ Bidding

Phase	Start (Month/Year)	Completion (Month/Year)	Percent Completion
Planning	January 2022	January 2022	100%
Design	January 2022	March 2022	50%
Bidding	May 2022	June 2022	0
Construction*	July 2022	September 2022	0
*Construction projects must be in construction by December 31, 2025 to be considered for funding.			

- VIII. **PROJECT FUNDING** (Provide sources and uses of funding for the project and identify use(s) of the requested funding. Identify revenue sources for loan repayment, if seeking loan funding, on a separate page.)

a. Identify the Project Funding Sources for the project in the tables below:

MDE Funding Request (this request)	Amount	Description
Total Amount Requested (x.)	\$ 100,000	Full amount requested from MDE

Other Funding	Amount		
MDE Grant Amount(s) Previous funding*			
MDE Loan Amount(s) Previous funding*			
		Funds Secured?	Notes
Applicant*		<input type="radio"/> Yes <input checked="" type="radio"/> No	
MEMA/FEMA		<input type="radio"/> Yes <input type="radio"/> No	
DNR/NOAA*		<input type="radio"/> Yes <input type="radio"/> No	
U.S. Corps of Engineers *		<input type="radio"/> Yes <input type="radio"/> No	
Federal (EPA) STAG/SAAP*		<input type="radio"/> Yes <input type="radio"/> No	
USDA Rural Development *		<input type="radio"/> Yes <input type="radio"/> No	
CDBG(DHCD)*		<input type="radio"/> Yes <input type="radio"/> No	
Miscellaneous*: SHA	\$ 20,000	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Other Funding Total (y.)	\$ 20,000	Total of all Prior and Additional Funding Sources	

*Include costs of planning/design/construction already completed.

Source Total (x. + y.)	\$ 120,000	Total Amount requested from MDE plus Other Funding. Total should match the Budget Total in VIII.b.
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b. Identify the cost-breakout of the budget (Project Budget) in the table below:

Project Funding Use(s)	Amount	MDE Grant Funds?	Is this line item already funded by an "Other Funding"
A/E Planning*		<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input checked="" type="radio"/> No
A/E Design*	\$ 15,000	<input type="radio"/> Yes <input checked="" type="radio"/> No	<input checked="" type="radio"/> Yes <input type="radio"/> No
A/E Construction Management*	\$ 5,000	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input checked="" type="radio"/> No
Construction*	\$ 80,000	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input checked="" type="radio"/> No
Land*		<input type="radio"/> Yes <input checked="" type="radio"/> No	<input type="radio"/> Yes <input checked="" type="radio"/> No
Contingency*	\$ 15,000	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input checked="" type="radio"/> No
Administrative*	\$ 5,000	<input type="radio"/> Yes <input checked="" type="radio"/> No	<input checked="" type="radio"/> Yes <input type="radio"/> No
Other*: _____		<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No
Budget Total	\$ 120,000	Total should match the Source Total in VIII.a.	

*Include costs of planning/design/construction already completed.

I CERTIFY I AM AN AUTHORIZED OFFICIAL PERMITTED TO SIGN AND SUBMIT THIS APPLICATION ON BEHALF OF THE APPLICANT. I FURTHER CERTIFY ALL INFORMATION IN THIS APPLICATION AND ATTACHED MATERIALS ARE TRUE AND CORRECT.

Name: Michael Benton Title: Mayor

Authorized Official Signature:  Date: January 31, 2022

APPLICANT: TOWN OF NORTH BEACH**PROJECT NAME: 9TH STREET PUMP STATION
MODIFICATION**

For many years, The Town of North Beach, located on the western shore of the Chesapeake Bay, has had to cope with coastal hazards, extreme weather events, stormwater flooding, sea level rise and high tides. While combatting these longstanding problems, the Town has continued to address these detrimental impacts to its shoreline, wetland areas, roadways, and residential and commercial structures.

V. PROJECT PURPOSE AND SUMMARY.

a. This proposal seeks design and construction funding to enhance a pumping station at the intersection of Atlantic Avenue and 9th Street and adjacent to the Chesapeake Bay. See Attachment 1, Proposed Area Map and Attachment 2, Pump Station Plan and Design. See also Attachment 3, National Flood Hazard Layer FIRMette map created from FEMA's Map Service Center website. The proposed modifications in the plan identify installation of a new 7.5 horsepower pump that will increase GPM from 600 to 1,000. The design will be reviewed and revised, if necessary, and finalized as part of the design phase for this grant. Attachment 2 includes additional details regarding pipe structure to include moving outfall above the water surface (currently located under water on the Bay bottom).

b. The purpose of the proposed project is to mitigate the ongoing damage to 50 homes, 10 businesses and critical Town infrastructure (i.e., power, sewer) in this portion of North Beach from pluvial and coastal flooding caused by both normal and severe storms and high tides.

This area of North Beach suffers repeatedly from flooding from multiple hazards, particularly rainstorms, thunderstorms, high tides, and coastal storms ranging from gales to hurricanes. Normal rainstorms and coastal weather events habitually flood streets in this area to where they become impassable to vehicles, including emergency apparatus. A two-inch rainstorm or an extremely high tide typically means residents and business owners must contend with ground floor flooding that damages property and curtails commercial activity as indicated in photos provided. The flooding leads to public inconveniences such as road closures, daily

APPLICANT: TOWN OF NORTH BEACH**PROJECT NAME: 9TH STREET PUMP STATION
MODIFICATION**

activity disruption and property damage. Flooding washes debris into ditches and roadways and overwhelms storm drains. These events deteriorate infrastructure such as roads, sidewalks, driveways, bike paths and the boardwalk. In addition to the damage and inconvenience, safety becomes an issue.

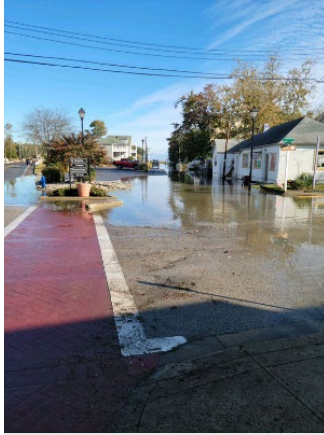
Included below and on the following three pages is photo documentation of flooding in the business district and the residential areas of Bay Avenue, Annapolis Avenue, 7th Street and 9th Street. Video footage of a recent storm and flooding can be found at the following links: <https://youtu.be/ENA7d47L9mw> and <https://youtu.be/eLUudQxt0mU>.

Businesses located on Bay Avenue between 5th Street and 7th Street

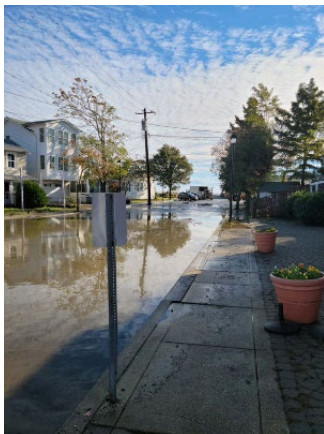
APPLICANT: TOWN OF NORTH BEACH

**PROJECT NAME: 9TH STREET PUMP STATION
MODIFICATION**

Businesses located in the area of 7th Street and Bay Avenue



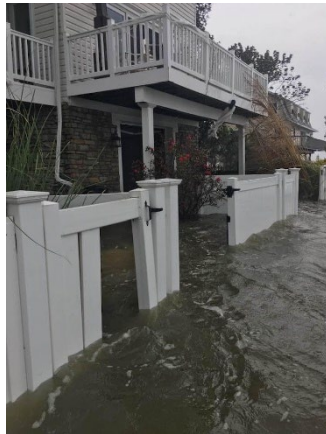
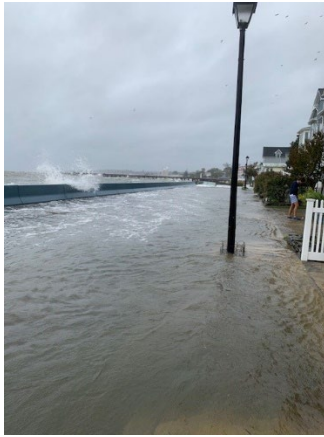
Residences located on 7th Street between Bay Avenue and the Chesapeake Bay



APPLICANT: TOWN OF NORTH BEACH

**PROJECT NAME: 9TH STREET PUMP STATION
MODIFICATION**

Residences located on Atlantic Avenue directly facing the Chesapeake Bay



Residences on Bay Avenue in the area of 9th Street



APPLICANT: TOWN OF NORTH BEACH

**PROJECT NAME: 9TH STREET PUMP STATION
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Residences on 9th Street



The upgrade of the pump station at this location with proper tidal backflow prevention will help protect and mitigate damage to property and infrastructure caused by repeated flooding. The pump station will quickly move the flood waters away from property and infrastructure and will also mitigate safety risks.

Fortifying North Beach's existing shoreline defenses by way of a new pumping station will also significantly boost the town's resiliency to climate change, i.e., sea-level rise and the marked increase in the frequency and severity of extreme weather events.

The most recent nor'easter (October 28-29, 2021), for example, brought significant coastal surges and wave action that flooded and damaged multiple properties, broke up portions of the Town's boardwalk, damaged power facilities that caused

APPLICANT: TOWN OF NORTH BEACH

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outages, filled the storm sewer system in this area with debris and silt minimizing its effectiveness, and rendered streets impassable by vehicles for several days. Mayor Benton provided routine updates to Town Council members and town residents on the flood response and recovery. An example of the updates can be found at the following link:

https://www.northbeachmd.org/sites/g/files/vyhlf4786/f/uploads/storm_10-21_update.

Prior storms (except for Hurricane Isabel, which caused very severe damage to the Town) have caused similar outcomes, albeit with less property damage or potential safety issues.

c. There are multiple beneficiaries of this project, including residents, business owners and guests to our town. This project would affect the entire community of citizens who live and work in this area, and those who come to North Beach regularly to enjoy the amenities of a popular waterfront town. In addition, the boardwalk is the primary healthy exercise for many of our older population, especially in times of Covid when they can't socially interact inside. Scientifically, social isolation can be as unhealthy as other ailments for the elderly.

d. This project has NOT been previously or concurrently submitted to MDE or any other government entity.

APPLICANT: TOWN OF NORTH BEACH

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VI. c. PROJECT SUPPORTING DOCUMENTS SUMMARY.

Like many communities in Maryland's Chesapeake Bay watershed, North Beach has experienced the effects of climate change. The Town has endured heavier and more frequent flooding in recent years from sea-level rise, more severe storms, and increased tidal height and surges.

North Beach's elected leaders believe it is critical to understand the risks associated with climate change and the town's adjacency to the Chesapeake Bay. It is equally critical to aggressively address these risks and build resiliency. As such, the Town is developing a comprehensive flood action plan which can be found here: <https://www.northbeachmd.org/other-documents-and-information/files/dnr-phase-i-final-flood-and-sea-level-rise-action-plan>.

This proposed project also dovetails with several short- and long-term projects that North Beach is undertaking to alleviate the effects of climate change and harden the resiliency of its infrastructure. Those efforts include other structural/engineering projects like grading modifications, water storage and absorption capacity modifications, as well as nature-based projects like living shorelines and flood retention areas.

APPLICANT: TOWN OF NORTH BEACH

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Attachment 1: Proposed Area Map



Proposed Project Area Rock Revetement (5 x 25 1,320 ft)
★ 7th Street Pump Station ★ 9th Street Pump Station

[illegible]

APPLICANT: TOWN OF NORTH BEACH

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Attachment 3: National Flood Hazard Layer FIRMette
National Flood Hazard Layer FIRMette



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS

Without Base Flood Elevation (BFE)
Zone A, V, A99
With BFE or Depth Zone AE, AO, AH, VE, AR
Regulatory Floodway

0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X

Future Conditions 1% Annual Chance Flood Hazard Zone X

Area with Reduced Flood Risk due to Levee, See Notes, Zone X

Area with Flood Risk due to Levee Zone D

OTHER AREAS OF FLOOD HAZARD

NO SCREEN Area of Minimal Flood Hazard Zone X

Effective LOMRs

Area of Undetermined Flood Hazard Zone D

OTHER AREAS

Channel, Culvert, or Storm Sewer
Levee, Dike, or Floodwall

GENERAL STRUCTURES

Cross Sections with 1% Annual Chance Water Surface Elevation

Coastal Transect

Base Flood Elevation Line (BFE)

Limit of Study

Jurisdiction Boundary

Coastal Transect Baseline

Profile Baseline

Hydrographic Feature

OTHER FEATURES

Digital Data Available

No Digital Data Available

Unmapped

MAP PANELS

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 1/27/2022 at 10:34 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.