

APPLICATION CHECKLIST HMGP/FMA/BRIC

For All Project Applications

Signed Assurances

Maintenance Agreement

USGS Map (Project Location Identified)

Benefit Cost Analysis

Budget Breakdown

Homeowner/Critical Facility Application

Property Information Worksheet for Homeowner

Voluntary Participation Agreement

Property Information Worksheet for Critical Facility

Tax Card

Elevation Certificate

Firmette (FEMA Map Service Center)

Construction Cost Estimate – ELEVATION ONLY

Parcel Map

Hazardous Materials Survey

Proof of Flood Insurance (FMA only)

Model Acknowledgment A Form – ELEVATION ONLY

5 Pictures (.jpg Original Digital Color Photo of Each Side and one street-scape view)

Letter from Locality stating each property is structurally sound, will be elevated to ASCE24 standards, and meet floodplain requirements – ELEVATION AND MITIGATION RECONSTRUCTION ONLY

USACE & VDOT Letter – Confirming no projects scheduled will affect the property – FOR ACQUISITION

Structural Project not Property Related

Design/Engineering Study

Documents Supporting Inputs for BCA

Level of Protection Before Mitigation and After Mitigation

Generator Project

Pictures of Generator Location & 4 Sides of Bldg.

Cost Estimate

Generator Specific Information/Schematics

FIRM, Identify Elevation if in SFHA

Memo detailing Ground Disturbance, Fencing, Pad, Date of Construction

Map With Generator Location Marked

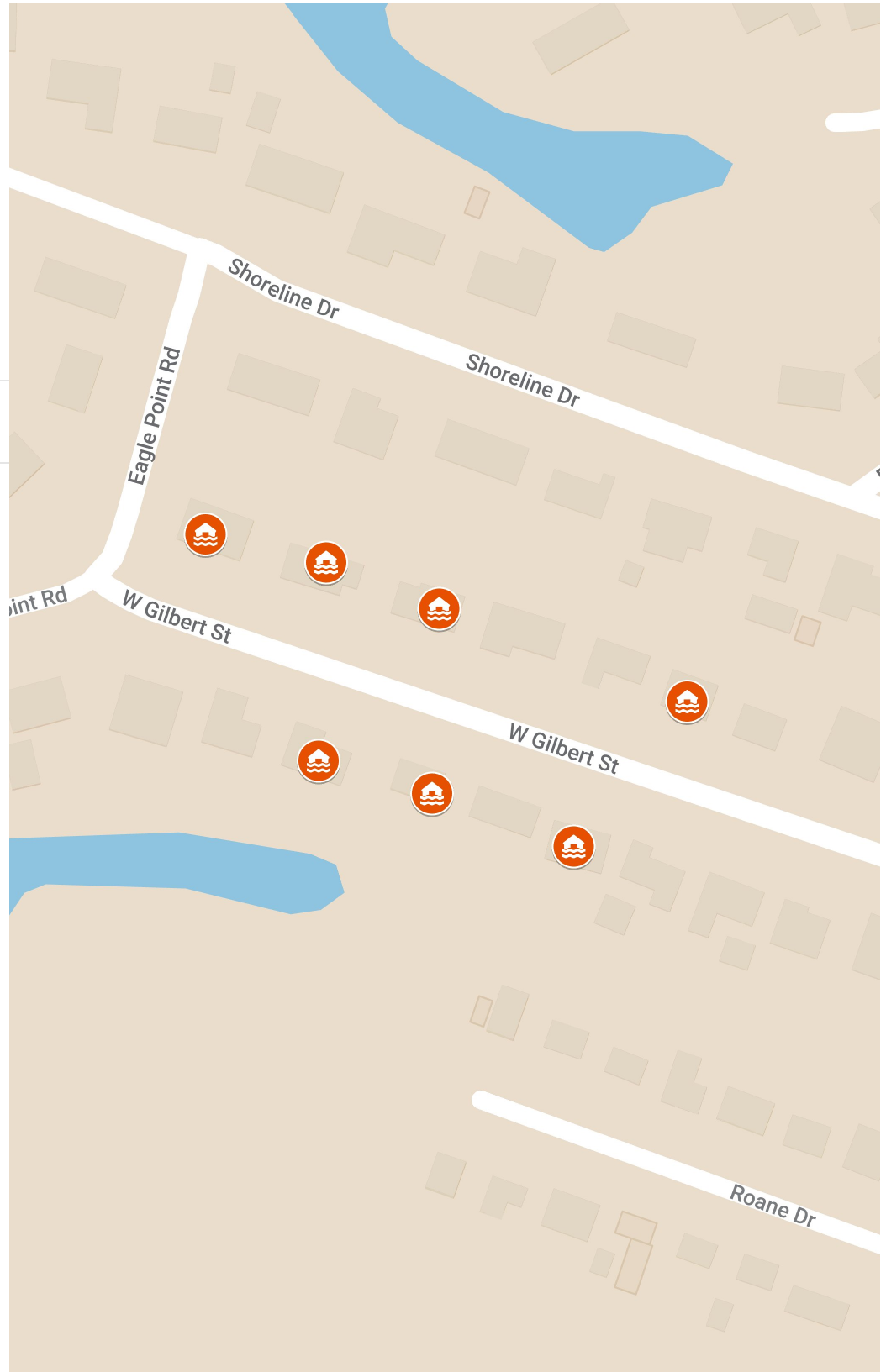
Planning Project

Letter of Intent for Each Jurisdiction

COH W Gilbert St Elevation Project

Untitled layer

- 412 W Gilbert St
- 413 W Gilbert St
- 417 W Gilbert St
- 418 W Gilbert St
- 419 W Gilbert St
- 420 W Gilbert St
- 424 W Gilbert St





September 9, 2022

Taylor Charles
Hazard Mitigation Grants Administrator
Virginia Department of Emergency Management
9711 Farrar Court, Suite 200
North Chesterfield, Virginia 23236

Re: HMGP DR 4512 W Gilbert St Elevation Project Application

Ms. Charles:

The City of Hampton is submitting an application for Virginia Department of Emergency Management and Federal Emergency Management Agency funding to elevate seven homes on W Gilbert Street in the North King Street District of the city. To the best of our knowledge, based on cursory visual inspection and by the assertion of homeowners, these residences are structurally sound and able to withstand elevation. If the grant application is awarded, as part of the city's standard mitigation project implementation procedures, the city's contracted engineering firm will conduct a site visit to each residence to gather data needed to complete engineering designs. During the site visits, the engineers perform a complete interior, exterior and crawl space inspection and submit a written report advising the city of any observed condition that would either render elevation not structurally feasible, or which would significantly increase the budget. If conditions are discovered which would prohibit elevation of the structure, the city would request a change in scope or withdraw the home from the project. It should be noted that these are pre-construction inspections, are non-invasive, and cannot identify hidden conditions that are only discoverable after invasive measures have been taken or the structure has been lifted.

All home elevations undertaken as part of this project will be designed and constructed to ASCE24 standard and will meet floodplain requirements in effect at the time of construction. The city's contracts with its design engineering firm and construction contractors specifically state these requirements.

I appreciate your consideration of this application and please let me know if you have any questions or if additional information is needed.

Sincerely,

A handwritten signature in black ink, appearing to read "Hui-Shan Walker".

Hui-Shan Walker, C.E.M.
Emergency Management Coordinator

Grant Application - CITY OF HAMPTON W GILBERT ST ELEVATION PROJECT

Routing in Progress: Create a Grant Application (Step 1 of 5)



Grant Application Summary

The Grant Application defines all project details including Scope-of-Work, all costs, worksheets, and other required data and documents.

Title: CITY OF HAMPTON W GILBERT ST ELEVATION PROJECT

Total Project Cost: \$2,600,892.00

Eligible Amount: \$2,600,892.00

Initial Obligation: \$502,000.00

Funding Sources: Federal - \$2,340,802.80
State - \$260,089.20
Local - \$0.00
[Edit](#)

FEMA Obligation Data: Federal Number - < no value >
Date of Obligation Letter - < no value >
CATEX Comments - < no value >
Project POP Date - < no value >

Related Links: [View Grant Pre-Application](#)

Grant

4512 COVID-19
Hazard Mitigation Grant Program
Declared: August 4, 2021
CFDA Number: 97.039

Applicant

Hampton, City of
Name (Legal): City of Hampton Location
Jurisdiction: Independent City of Hampton Independent City of Hampton Location (Region 5 - Tidewater Region)
UEI:
FIPS: 650-35000-00
State #: 2152 FEIN #: 54-6001336
Vendor # (Applicant): 000046247
DUNS #: 066019902 Type: City
Physical/Mailing: 22 Lincoln Street
Hampton, VA, 23669

Workflow Summary

Current Step: 1) Create a Grant Application
Description: Create a Grant Application

Last Returned: Sep 7, 2022 at 9:06 AM by Taylor Charles

Correction Required

Last Modified: Sep 8, 2022 at 9:50 PM by Gwen
Pointer

Submission: Jul 25, 2022 at 3:13 PM by Gwen
Pointer

Introduction

Summary Information

Grant: 4512 COVID-19

Project Type: Elevation

Title: CITY OF HAMPTON W GILBERT ST ELEVATION PROJECT

Used to help identify the project. Ex: "St Thomas Bridge Reinforcement".

Primary Contact: Gwen Pointer - Deputy Coordinator

[Edit](#)

Email Address: gwen.pointer@hampton.gov

Phone: 757-727-6881

Alternate Contact: Hui-Shan Walker - Emergency Management Coordinator

[Edit](#)

Email Address: hui-shan.walker@hampton.gov

Phone: 757-727-1208

Authorized Contact: MARY BUNTING - CITY MANAGER

[Edit](#)

Email Address: MBUNTING@HAMPTON.GOV

Phone: 757-727-6392

Requested Applicant Updates

Fill out the following fields if the following values are incorrect. - ([View Applicant](#))

State Tax Number: 30-546001336F-001

Current State Tax Number value:

Federal Tax Number: 54-6001336

Current Federal Tax Number value:

FEIN: 54-6001336

Current Federal Employer Identification Number value: 54-6001336

FIPS:

Current FIPS value: 650-35000-00

DUNS:

Current DUNS value: 066019902

Congressional District:

Current Congressional District value:

Congressman Name:

Current Congressman Name value:

State Senatorial District:

Current State Senatorial District value:

Senator Name:

Current Senator Name value:

State Legislative District:

Current State Legislative District value:

Representative Name:

Current Representative Name value:

Planning Requirement

For all disasters declared after November 1, 2004, a community must have a FEMA approved Local Hazard Mitigation Plan in order to be eligible for HMGP.

Date of Plan Approval:

Is the community a member of good standing with the National Flood Insurance Program (NFIP)?

Date Established:

NFIP Number:

Property Located in SFHA?

Is the community a member
of the Community Rating
System (CRS)?

Yes

Date Established:

May 1, 2011

History of Hazards

Past Damages

In this section, describe all past damages from hazardous events (include name of storms if applicable) in the project area. Include Presidentially declared disasters as well as events that did not result in a Presidential declaration.

- For assistance, reference the NOAA's National Climatic Data Center here:

<http://www.ncdc.noaa.gov/stormevents/>

- Do not list country-wide or community-wide damages.
- Damages described must be site specific.
- Include information for as many past incidents as possible.
- Attach any supporting documents, i.e. proofs of loss, PW's, force account logs.
- Direct costs should include damages to structures and infrastructure in the project area as a result of the hazard.
- Indirect costs should include the cost to the local government to respond to victims of the hazard in the project area, any interruption to local businesses, and losses of public services.
- For Acquisitions and Elevations, provide an overview in this section and specific damages to each property in the Individual Property Worksheets.

Use the below table to describe past events (by date) that resulted in damage; describe damages, including direct and indirect damages and costs.

Date	Duration (days)	Loss	Description
Sep 18, 2003	8	\$ 1,500,000.00	Hurricane Isabel - Hurricane Isabel - project area flood damages, loss of function, loss of utilities. Specific damages per residence provided on property worksheets.
Sep 1, 2006	3	\$ 250,000.00	Tropical Storm Ernesto - project area flood damages, loss of function, loss of utilities. Specific damages per residence provided on property worksheets.
Nov 6, 2006	2	\$ 150,000.00	Nor'easter - project area flood damages, loss of function, loss of utilities. Specific damages per residence provided on property worksheets.
Nov 11, 2009	3	\$ 750,000.00	Nor'easter - project area flood damages, loss of function, loss of utilities. Specific damages per residence provided on property worksheets.
Aug 26, 2011	5	\$ 300,000.00	Hurricane Irene - project area flood damages, loss of function, loss of utilities. Specific damages per residence provided on property worksheets.
Aug 25, 2012	1	\$ 100,000.00	500 Year Rain Event - project area flood damages, loss of function, loss of utilities. Specific damages per residence provided on property worksheets.
Oct 29, 2012	4	\$ 25,000.00	Tropical Storm -Post Tropical Cyclone Sandy - project area flood damages, loss of function, loss of utilities. Specific damages per residence provided on property worksheets.
Oct 1, 2015	4	\$ 25,000.00	Nor'easter - project area flood damages, loss of function, loss of utilities. Specific damages per residence provided on property worksheets.
Oct 7, 2016	4	\$ 50,000.00	Hurricane Matthew - project area flood damages, loss of function, loss of utilities. Specific damages per residence provided on property worksheets.
Sep 12, 2018	3	\$ 50,000.00	Tropical Storm Florence - project area flood damages, loss of function, loss of utilities. Specific damages per residence provided on property worksheets.
Oct 9, 2018	3	\$ 25,000.00	Hurricane Michael - project area flood damages, loss of function, loss of utilities. Specific damages per residence provided on property worksheets.
Aug 3, 2020	3	\$ 25,000.00	Tropical Storm Isaias - project area flood damages, loss of function, loss of utilities. Specific damages per residence provided on property worksheets.
Jan 3, 2022	5	\$ 50,000.00	Coastal Flooding

Additional Comments:

NOAA storm events data attached in documents. Flood damage records for individual homes included on project worksheets.

Provide any additional details regarding past events.

Population Affected:

	Count
Residential Properties	7
Businesses / Commercial Properties	0
Public Properties	0
School / Hospitals / House of Worship	0
Total	7

Provide the number of each type of structure listed above in the project area. Include all structures in the project area.

Hazards to Mitigate:

Flood, Flash Flood, Hurricane/Tropical Storm, Nor'easter, Wind Driven Coastal Flooding, Heavy Rain Events

List the type of hazards the proposed project will mitigate (i.e. Wind, Seismic, Flood, Fire).

Level of Protection:

The project will elevate homes to a level equivalent to the 1% annual chance flood, plus an additional 3 feet safety factor as mandated by the city's freeboard requirement.

Fill in the level of protection the proposed project will provide. List data in Flood Levels (10, 25, 50, 100... mph winds) or Mercalli Scale Earthquake (1-12). For example: 23 Structures protected against the 100-year (1%) flood.

Useful Life of the Project:

30 years

Number of years proposed project will provide protection against the hazard(s) above.

Scope of Work

Project Type:

Structural Mitigation

Description of the Problem:

W Gilbert Street is subjected to significant flood events, which are increasing in frequency. A majority of the homes in the 400 block of W Gilbert Street are classified by FEMA as either Repetitive Loss or Severe Repetitive Loss properties. This area of the city accounts for a substantial number of claims to the National Flood Insurance Program. W Gilbert Street is located in the North King Street District of the city, proximate to the Southwest Branch of Back River. The Southwest Branch begins as Newmarket Creek, a marshy, tidal creek which flows from its headwaters in Newport News into Hampton where it widens greatly, produces significant riverine flooding, and empties into the Southwest Branch immediately adjacent to W Gilbert Street and Roane Drive. The homes lining W Gilbert Street were constructed in the 1950's and 1960's and primarily have crawl space or split-level foundations. Several homes nearby on Shoreline Drive are either already elevated, or scheduled for construction in current projects, and the city is also seeking to complete a project on Roane Drive, one street over, which makes W Gilbert Street ideal for an elevation project.

Describe the specific problem the proposed project is intended to alleviate.

Description of the Proposed Project:

This project seeks to elevate seven (7) single family homes on W Gilbert Street to mitigate against flooding. Elevation will be to the city's freeboard requirement above the Base Flood Elevation, which is currently three feet. Elevation will protect these structures against hurricanes, nor'easters, and extreme rain events. Success of this project will reduce burden to the National Flood Insurance Program and remove structures from the Repetitive Flood Loss and Severe Repetitive Flood Loss lists. Most importantly, the project will protect seven families from risk to life and property from flooding.

Describe, in detail, the proposed project. Also, explain how the proposed project will solve the problem(s) and provide the level(s) of protection described above. If any other projects are underway or proposed in the project area, please describe. Also describe any planned, future development in the project area. Please include building code requirements for new development and substantial improvements in the community.

Who will the mitigation activity benefit and/or impact? What are the long-term changes to the areas and entities it protects?

The project will provide direct benefits through reduction or elimination of flood damages and decreases in loss of function. The project will also provide indirect benefits in terms of reduction of the burden on emergency preparedness, response and recovery resources.

Please provide the percent of the population benefiting from this mitigation activity:

0.01 %

Please explain your response to the above question:

Based on the assumption of 2.6 persons per household, seven households would represent approximately .013% of the city's population of 137,436.

How will the mitigation activity be implemented?

The city will issue RFPs to contract engineering services and a portion of project and construction management services. Construction services will be contracted via formal bid.

Describe how the project is technically feasible and will be effective in reducing the risk by reducing or eliminating damages to property and/or loss of life in the project area. Please include engineering design parameters and references to the following: preliminary schematic or engineering drawings/design; applicable building codes, engineering practices and/or best practices; level of protection (e.g., life safety, 100-yr floor protection with freeboard, 100-yr wind design, etc.)

The City of Hampton has proven technical feasibility to complete the project, having elevated seventeen homes to date utilizing HMA grant funding. The city is currently in the process of elevating an additional 6 homes. The completed project will significantly reduce, or eliminate, flood losses by raising each of the homes to a freeboard measure of three feet above the Base Flood Elevation. Engineering designs for the project will be required to comply with versions of the Virginia Uniform Statewide Building Code and the American Society of Civil Engineers (ASCE) 24 standards current at the time of construction.

Who will manage and complete the mitigation activity?

The Office of Emergency Management will manage the project from cradle to grave, utilizing contracted services to provide engineering designs and to secure assistance with project management and construction management services. The city will also contract services to perform all elements of construction. The Office of Emergency Management will be responsible for all financial accounting services, required reporting, and project closeout.

Will the project address the hazards identified and what risks will remain from all hazards after project implementation (residual risk)?

The project will address the identified hazards to a protection level greater than the Base Flood Elevation. The residual risk to the individual properties is minimized by the city's three feet freeboard requirement. Based on the projected stillwater elevations provided in the City of Hampton Flood Insurance Study, this project will provide protection to a level greater than the .2% annual chance flood.

When will the mitigation activity take place?

Dependent on time of award, the city plans to be prepared to begin the processes to present to City Council for resolution to accept grant funding, establish financial accounts and begin engineering design in spring of 2023. Time to complete will be reliant on the number of qualified respondents to the construction bid process.

Is this proposal identified in any other comprehensive development or disaster recovery planning process?

No

Grant Application Worksheets

7 results

#	Grant Application Worksheet Title	Amount	Grant Application Worksheet Type	Status
1	412 W GILBERT ST	\$383,822.00	Elevation	Included
1	413 W GILBERT ST	\$367,575.00	Elevation	Included
1	417 W GILBERT ST	\$315,150.00	Elevation	Included
1	418 W GILBERT ST	\$313,575.00	Elevation	Included
1	419 W GILBERT ST	\$319,720.00	Elevation	Included
1	420 W GILBERT ST	\$352,135.00	Elevation	Included
1	424 W GILBERT ST	\$369,120.00	Elevation	Included

Costs

Worksheet Cost Type Summary

Cost Type	Quantity Sum	Unit Cost Avg.	Total Cost Sum
Attorney Fees	7.00	\$5,000.00	\$35,000.00
Construction Management Costs	7.00	\$13,663.86	\$95,647.00
Elevation/Lifting	7.00	\$82,412.14	\$576,885.00
Engineering Designs	7.00	\$40,000.00	\$280,000.00
Foundation	7.00	\$190,866.43	\$1,336,065.00
Handicap Ramp/Wheelchair Lift (Must have Doctor's Note)	6.00	\$10,000.00	\$60,000.00
Pre-Award Elevation Certificate	3.00	\$500.00	\$1,500.00
Temporary Relocation	7.00	\$5,142.86	\$36,000.00

Cost Line Items

Please specify any project costs that aren't worksheet or site-specific (since those costs will be specified in the individual worksheets). In the Description field please type in a brief (1-3 words) classification of the line item (example: Project Management).

Phased Project:

No

If this project is to be done in 2 phases - A and B.

Match Type	Description	Qty	Unit	Price	Pre-Award	Total
Project Management Costs	Financial accounting duties; reporting; preparation and management of Requests for Proposal and ITB processes; meetings, reports, schedules	1	Job	\$ 179,795.00	No	\$179,795.00
Grant Application Worksheet Total						\$2,421,097.00
Grant Application Total						\$179,795.00
Grand Total						\$2,600,892.00

Strategic Funds Management Initiative

Does this project qualify for SFM?

Yes

Please provide a proposed schedule for funds to be obligated on this project in chronological order. Incremental obligations can be based on one of two options:

- Option A: By Activity Type. For this option, each line item in the table should be itemized according to activity, with the activity indicated in the Description column (for example: Property Management, Appraisals, Title Search, Legal, etc.). Multiple activities can be allocated to a line item.
- Option B: By Property. For this option, each line item in the table should be itemized according to properties, with each property indicated in the Description column (for example: 1 Main St, 2 Main St, 3 Main St, etc.)

Projected Obligation Date	Description	Cost
Jul 1, 2023	Pre-bid: Project Management: Establish accounts, develop and manage bid process; Engineering (surveys, geotechnical studies, elevation certificates, site visits, designs);	\$ 502,000.00
Apr 1, 2024	Construction, construction management, project management	\$ 3,358,834.00
Apr 1, 2025	Project Closeout - relocation expenses, legal	\$ 102,500.00
		\$3,963,334.00

Funding Sources

Method: By Percent By Amount

Funding Source / Other Agency

Estimated FEMA Share: % \$2,340,802.80

Estimated State Share: % \$260,089.20

Estimated Non-Federal Share: % \$0.00

Total Allocated: % \$2,600,892.00

Cost Effectiveness:

Using the FEMA BCA Toolkit, the projected benefits derived from this project total over 7.5 million - nearly three times the project cost. The seven homes included in this project have recorded over 1 million dollars in payments from the NFIP, a condition that is expected to worsen exponentially as the frequency and severity of storms increase due to climate change. The flood insurance payments do not reflect the loss of function, emergency protective measures and additional cost that homeowners experienced. By elevating these properties to not only the Base Flood Elevation, but to three feet above that mark, the project ensures direct and significant reduction to flood insurance claims, loss of function and cost to individual homeowners as well as to the city.

Provide a detailed description of the cost effectiveness indicating that there is a reasonable expectation that future damage or loss of life will be reduced or prevented.

Benefit Cost Ratio

Is Used:

Benefit/Cost Analysis IS applicable to this project

Total Project Benefit:

\$ 7,700,635.00

The total of savings realized by this project.

Benefit Cost Ratio:

2.96

This value is calculated based on Benefit/Cost. Please also attach a copy of the Benefit Cost Analysis and all supporting documentation.

Timeline

Project Milestones

Total # of weeks for entire project:

List the major milestones in this project.

Example 1: Demolition of 6 structures and removal of debris

Example 2: Design, Engineering and H & H Studies

Task Description	Days
Process Resolution for City Council to accept funding, set up financial accounts	60
Pre-Bid Activities - Surveys, Site Visits, Engineering Designs	120
Invitation to Bid and Contracting - For construction services	120
Construction	730
Project Closeout	60
Total Days	1090

Alternatives

List two feasible alternative projects to mitigate the hazards faced in the project area. One alternative is the "No Action Alternative" (section A). This application cannot be reviewed if this section is incomplete.

A. No Action Alternative

Impacts with No Action

If no action is taken, homes will continue to flood, and based on the effects of global warming, flood events are projected to occur with greater frequency and severity. Burden on the National Flood Insurance Program, and on City of Hampton preparedness and response resources will not only continue, but will increase. Risk to individual homeowners will also worsen.

Discuss the impacts on the project area if no action is taken.

B. Other Feasible Alternative

This could be an entirely different mitigation method or a significant modification to the design of the current proposed project. Please include scope of work, engineering details (if applicable), estimated budget and the impacts of this alternative.

Other Feasible Project
Description and Scope of
Work:

The best project alternative that could derive the same benefit at a lesser cost would be mitigation reconstruction. However, given the existing federal cap on construction costs, this type of project would not be feasible. Likewise, an acquisition project, though of even greater benefit in terms of flood risk, would also not be feasible as HMA programs are voluntary and a majority of these homeowners specifically requested assistance with elevation. To acquire disparate properties within the neighborhood would adversely impact aesthetics and property values.

As a result, the only feasible alternative project would be to target different properties in another location in the city. The Aberdeen Gardens and Briarwood Terrace neighborhoods experience riverine flooding, have been targeted by the city in past grant applications, and are intended for inclusion in future applications. A mitigation project in this area would produce similar benefits to the proposed project and would be of similar cost.

Describe, in detail, the alternative project. Also, explain how the alternative project will solve the problem(s) / provide protection from the hazard(s).

Other Feasible Project
Location:

Attach a map or diagram showing the alternative site in relation to the proposed project site and photographs of alternative site.

Funding Sources

Round figures to the nearest dollar. The maximum FEMA share for HMGP projects is 75%. The other 25% can be made up of State and Local funds as well as in-kind services. HMGP funds may be packaged with other Federal funds, but those funds cannot be used as match. Federal funds which lose their Federal identity at the State level (such as CDBG, ARS, HOME,) may be used for the State or Local match.

	Amount	% of Total	Funding Source / Other Agency
Estimated FEMA Share	\$ <input type="text" value="2,700,000.00"/>	<input type="text" value="90"/> %	
Estimated State Share	\$ <input type="text" value="300,000.00"/>	<input type="text" value="10"/> %	<input type="text" value="VDEM"/>
Non-Federal Share - Estimated Local Share (Include In-Kind Value)	\$ <input type="text"/>	<input type="text"/> %	<input type="text"/>
Other Non-FEMA Federal Funds (Do Not Include In Total)	\$ <input type="text"/>	<input type="text"/> %	

Upload non-Federal share commitment letter(s).

Impacts of Other Feasible
Alternative Project:

Impacts to environmental justice, endangered species, historic issues and hazardous materials would mirror the impacts of the proposed project. The difference between the two projects would be in impact to the city's regulatory floodway for Newmarket Creek. The alternative project would target homes in and along the floodway.

Include comments on these issues: Environmental Justice; Endangered Species; Wetlands; Hydrology (Upstream and Downstream Impacts); Floodplain/ Floodway; Historic Issues; Hazardous Materials.

Reason for Rejecting Other
Feasible Alternative:

The city did not target this project to the Newmarket Creek area as the US Army Corps is in the end stages of developing a project in the same area. The city intends to resume targeting this area when the scope and impact of the Army Corps project is fully realized. The Corps has indicated that they are preparing a public announcement within the next quarter.

Acts & Executive Orders

National Historic Preservation Act - Historic Buildings and Structures

1. Does your project affect or is it in close proximity to any buildings or structures 50 years or more in age?

Yes

Please confirm that you have provided the following:

- The property address and original date of construction for each property affected (unless this information is already noted in the Properties section).
- A minimum of two color photographs showing at least three sides of each structure (Please label the photos accordingly).
- A diagram or USGS 1:24,000 scale quadrangle map displaying the relationship of the property(s) to the project area.

2. To help FEMA evaluate the impact of the project, please indicate below any other information you are providing:

- Information gathered about potential historic properties in the project area, including any evidence indicating the age of the building or structure and presence of buildings or structures that are listed or eligible for listing on the National Register of Historic Places or within or near a National Register listed or eligible historic district. Sources for this information may include the State Historic Preservation Officer (SHPO/THPO), your local planning office, historic preservation organization, or historical society.
- Consideration of how the project design will minimize adverse effects on known or potential historic buildings or structures, and any alternatives considered or implemented to avoid or minimize effects on historic buildings or structures. Please address and note associated costs in your project budget.
- For acquisition/demolition projects affecting historic buildings or structures, any data regarding the consideration and feasibility of elevation, relocation, or floodproofing as alternatives to demolition.
- Attached materials or additional comments.

Comments:

The structures in the project area are not considered by the city to be of historic significance. Searches of state and national historic registers also produced no results in the project area.

Please indicate any information about this project that could assist FEMA in its review.

National Historic Preservation Act - Archaeological Resources

1. Does your project involve disturbance of ground?

Yes

Please confirm that you have provided the following:

- A description of the ground disturbance by giving the dimensions (area, volume, depth, etc) and location.
- The past use of the area to be disturbed, noting the extent of previously disturbed ground.
- A USGS 1:24,000 scale or other site map showing the location and extent of ground disturbance.
- Any information about potential historic properties, including archaeological sites, in the project area.

Sources of this information may include SHPO/THPO, and/or the Tribe's cultural resources contact if no THPO is designated. Include, if possible, a map showing the relation of any identified historic properties to the project area.

Comments:

The project area was previously known to be a dairy farm prior to development. Ground disturbance will be required to complete the project and ground disturbance areas are denoted in the property worksheets. The area of disturbance for each property is expected to be within ten feet or less of the building footprint. Excavation will be performed to remove old footings and to construct new footers. Footing depth will be determined by the structural engineer of record but will typically be anticipated to be a minimum of 12 inches below undisturbed soil to meet code, and may be as deep as two feet to the top of new footings, dependent on soil conditions, as discovered during geotechnical survey, or as deemed necessary by the engineer to protect against erosion and scour.

Please indicate any information about this project that could assist FEMA in its review.

Endangered Species Act and Fish and Wildlife Coordination Act

1. Are Federally listed threatened or endangered species or their critical habitat present in the area affected by the project?

No

2. Does your project remove or affect vegetation?

Yes

Please confirm that you have provided the following:

- Description of the amount (area) and type of vegetation to be removed or affected.
- A site map showing the project area and the extent of vegetation affected.
- Photographs or digital images that show both the vegetation affected and the vegetation in context of its surroundings.
- Attached materials or additional comments.

Comments:

A search of US EPA Envirofacts and the NETR online tool did not produce any reports of environmental issues or incidents in the project area. Likewise, longtime residents are not aware of any issues in the neighborhood. As the areas of land disturbance will be limited to the area immediately around and under the existing structures, no impact to endangered species or habitats is expected. Vegetation will be removed from the area immediately around the affected homes - primarily flowerbeds and grass as shown in the photos of each residence. Additionally, equipment used in the projects will cause significant damage to lawns. Any areas of lawn that are disturbed will be graded and seeded as part of the project.

Please indicate any information about this project that could assist FEMA in its review.

3. Is your project in, near (within 200 feet), or likely to affect any type of waterway or body of water?

Yes

Please confirm that you have provided the following:

- A USGS 1:24,000 scale quadrangle map showing the project activities in relation to all nearby water bodies (within 200 feet).
- Any information about the type of water body nearby including: its dimensions, the proximity of the project activity to the water body, and the expected and possible changes to the water body, if any. Identify all water bodies regardless whether you think there may be an effect.
- A photograph or digital image of the site showing both the body of water and the project area.
- Evidence of any discussions with the US Fish and Wildlife Service (USFWS), and/or your State Wildlife Agency concerning any potential impacts if there is the potential for the project to affect any water body.
- Attached materials or additional comments.

Comments:

Three of the properties in the project, 419 W Gilbert St, 417 W Gilbert St and 413 W Gilbert St are within 200 feet of an affluent to Southwest Branch Back River, as depicted on the project map. Construction on these projects is not expected to impact any water body.

Please indicate any information about this project that could assist FEMA in its review.

Clean Water Act, Rivers and Harbors Act, and Executive Order 11990 (Protection of Wetlands)

Will the project involve dredging or disposal of dredged material, excavation, adding fill material or result in any modification to water bodies or wetlands designated as "waters of the U.S" as identified by the US Army Corps of Engineers or on the National Wetland Inventory?

 No

Executive Order 11988 (Floodplain Management)

1. Does a Flood Insurance Rate Map (FIRM), Flood Hazard Boundary Map (FHBM), hydrologic study, or some other source indicate that the project is located in or will affect a 100 year floodplain, a 500 year floodplain if a critical facility, an identified regulatory floodway, or an area prone to flooding?

 Yes

Please indicate in the text box below any documentation to identify the means or the alternatives considered to eliminate or minimize impacts to floodplains (See the 8 step process found in 44 CFR Part 9.6.) to help FEMA evaluate the impact of the project

The project is located within the 100 year floodplain. The structures are existing, having been constructed in the mid 1950's. The project will elevate the existing structures and, therefore, will have minimal additional impact to the floodplain.

2. Does the project alter a watercourse, water flow patterns, or a drainage way, regardless of its floodplain designation?

 No

Farmland Protection Policy Act

1. Will the project convert more than 5 acres of "prime or unique" farmland outside city limits to a non-agricultural use?

 No

RCRA and CERCLA (Hazardous and Toxic Materials)

1. Is there a reason to suspect there are contaminants from a current or past use on the property associated with the proposed project?

No

2. Are there any studies, investigations, or enforcement actions related to any of the properties associated with the proposed project?

No

3. Do any project construction or operation activities involve the use of hazardous or toxic materials?

No

4. Do you know if any of the current or past land uses of the property affected by the proposed project or of the adjacent properties are associated with hazardous or toxic materials?

No

Executive Order 12898, Environmental Justice for Low Income and Minority Populations

1. Are there low income or minority populations in the project's area of effect or adjacent to the project area?

Yes

Please provide the following:

Description of any disproportionate and adverse effects to these populations.

Description of the population affected and the portion of the population that would be disproportionately and adversely affected. Please include specific efforts to address the adverse impacts in your proposal narrative and budget.

Attached materials or additional comments.

Comments:

The project area is located in Census Tract 10701. As illustrated on the attached screenshot of the CDC Social Vulnerability Index Interactive Map, the area is highly vulnerable. The city targeted this project to the neighborhood because of its high degree of social vulnerability coupled with its heightened flood risk.

Please indicate any information about this project that could assist FEMA in its review.

Other Environmental/Historic Preservation Laws or Issues

- 1. Are there other environmental/historic preservation requirements associated with this project that you are aware of? No

- 2. Are there controversial issues associated with this project? No

- 3. Have you conducted any public meeting or solicited public input or comments on your specific proposed mitigation project? Yes

Provide a description of the requirements, issues or public involvement effort.

The city has conducted several public meetings and has solicited input online concerning its hazard mitigation planning and proposed projects. Additionally, the city's Resilient Hampton team reviewed this specific project location and concurred with prioritizing this area based on social vulnerability and flood risk.

Summary and Cost of Potential Impacts

- 1. Having answered the questions above, have you identified any aspects of your proposed project that have the potential to impact environmental resources or historic properties? No

Evaluation Criteria

Evaluation Criteria

Does your community participate in the Community Rating System (CRS)?

Yes

CRS Number:

7

Is your community a Cooperating Technical Partner (CTP)?

No

Is your community a Firewise Community?

No

Has your community adopted building codes consistent with the International Building Codes?

Yes

Has your community adopted the National Fire Protection Association (NFPA) 5000 Code?

No

Have the community's building codes been assessed on the Building Code Effectiveness Grading Schedule (BCEGS)?

Yes

BCEGS Rating:

2

Is your entity delinquent on any federal debt?

No

Does your community meet the definition of a small and impoverished community?

No

Is the project located in the State's designated coastal zone?

Yes

Provide a detailed description of the proposed project location:

The project is limited to seven residential structures located on W Gilbert St in the North King District of the City of Hampton. The address include 412, 413, 417, 418, 419, 420, and 424 W Gilbert St. A project map and USGS map is included in the documents section.

For example: municipality, street, address, major intersecting streets and other important landmarks.

Please upload all supporting documentation, such as maps that clearly identify the location and critical features to the project such as topography, waterways, adjacent community boundaries, etc.

How will this mitigation activity leverage involvement of partners to enhance its outcome?

This project is expected to further interest in home mitigation. Residents in these areas have typically been slower to respond to citywide notices of grant opportunities, but once outreach was targeted to specific neighborhoods and residents began talking to one another and discovering that others were participating, the number of respondents multiplied. The city anticipates that more residents will request to participate in future grant projects once construction begins on these homes.

How will this mitigation activity offer long-term financial and social benefits or promote resiliency for the community?

The project will provide direct financial benefit to individual homeowners through reduction in cost to prepare for floods, cost of flood damages, and cost of flood insurance premiums. The project will also provide greater social benefits in terms of reduction in emergency preparedness, response and recovery costs to the community. It also allows the city to remove repetitive loss and severe repetitive loss properties from its lists, and to garner CRS credits.

Agreement

Are federally listed threatened or endangered species or their critical habitat present in the area affected by the project?

No

Does your project remove or affect vegetation?

Yes

Are there low income or minority populations in the project's area of effect or adjacent to the project area?

Yes

Are there other environmental/historic preservation requirements associated with this project?

No

Has your organization conducted any public meeting or solicited public input or comments on your specific proposed mitigation project?

Yes

Please identify the entity that will perform any long-term maintenance and provide a maintenance schedule and cost information. The sub-applicant or owner of the area to be mitigated is responsible for maintenance (including costs of long-term care) after the project is completed (not applicable for elevation and acquisition projects).

N/A

Required Documentation Checklist

Match letter from community

No

Project Location Map

Yes

Benefit/Cost Supporting Documentation

Yes

US Army Corps of Engineers Letter for Acquisition Projects

No

Virginia Department of
Transportation Letter for
Acquisition Projects

No

Agreements

A. Maintenance Agreement

All applicants whose proposed project involves the retrofit or modification of existing public property or whose proposed project would result in the public ownership or management of property, structures, or facilities, must first sign and attach the following agreement prior to submitting their application to FEMA.

NOTE: those applicants whose project only involves the retrofitting, elevation, or other modification to private property where the ownership will remain private after project completion DO NOT have to complete this form.)

[Download Agreement Template](#)

B. Applicant Certifications

Each applicant whose proposed project involves elevation of one or more residential structures or relocation or acquisition and demolition of such structures must sign and attach the following certifications.

[Download Agreement Template](#)

C. Substitution Properties

Substitution Properties:

407 W Gilbert St, 408 W Gilbert St, 409 W Gilbert St, 411 W Gilbert St, 414 W Gilbert St, 415 W Gilbert St, 416 W Gilbert St, 423 W Gilbert St, 312 Roane Dr., 314 Roane Dr., 315 Roane Dr., 317 Roane Dr., 319 Roane Dr., 320 Roane Dr., 321 Roane Dr., 323 Roane Dr., 324 Roane Dr., 400 Roane Dr., 401 Roane Dr., 402 Roane Dr., 403 Roane Dr., 405 Roane Dr., 406 Roane Dr., 407 Roane Dr., 408 Roane Dr.

Enter addresses for properties that can be substituted if there are additional funds available.

ADDRESS	CONSTRUCTION	ENGINEERING	HOUSING	CONST MGT	ACCESS	LEGAL	TOTAL
412 W Gilbert St	\$ 307,450.00	\$ 40,000.00	\$ 6,000.00	\$ 15,372.00	\$10,000.00	\$5,000.00	\$ 383,822.00
413 W Gilbert St	\$ 301,500.00	\$ 40,000.00	\$ 6,000.00	\$ 15,075.00		\$5,000.00	\$ 367,575.00
417 W Gilbert St	\$ 243,500.00	\$ 40,000.00	\$ 4,500.00	\$ 12,150.00	\$10,000.00	\$5,000.00	\$ 315,150.00
418 W Gilbert St	\$ 242,000.00	\$ 40,000.00	\$ 4,500.00	\$ 12,100.00	\$10,000.00	\$5,000.00	\$ 313,600.00
419 W Gilbert St	\$ 246,400.00	\$ 40,000.00	\$ 6,000.00	\$ 12,320.00	\$10,000.00	\$5,000.00	\$ 319,720.00
420 W Gilbert St	\$ 288,700.00	\$ 40,000.00	\$ 4,500.00	\$ 13,935.00		\$5,000.00	\$ 352,135.00
424 W Gilbert St	\$ 304,400.00	\$ 40,000.00	\$ 4,500.00	\$ 15,220.00		\$5,000.00	\$ 369,120.00
PROJECT MANAGEMENT							\$ 179,770.00
							\$ 2,600,892.00



July 18, 2022

Gwen Pointer, Emergency Management Planner
Office of Emergency Management
City of Hampton
1300 Thomas St.
1st Floor
Hampton, VA 23669

Re: City of Hampton Flood Mitigation
Assessment of Project Budgets

Dear Ms. Pointer:

DJG was tasked with reviewing the City of Hampton Emergency Management's preliminary budgets for raising eleven single family homes located on West Gilbert Street and five single family homes located on Roane Drive.

DJG contacted Steve Gottlieb with CPG Inc. to discuss the major considerations for estimating the cost to raise a home. CPG Inc. specializes in raising homes and currently has a contract with the City of Hampton to raise five single family homes. Mr. Gottlieb shared the following information:

- The height of the structure being raised has some minimal impact on cost
- A structure on a slab is approximately \$50,000 more expensive than a structure on a crawl space.
- A house raising from a slab will cost a minimum of \$250,000
- A masonry structure is slightly more expensive to raise than a wood structure
- A new closed foundation is only marginally more expensive than an open foundation
- The size of the structure has some impact on cost but not to the extent that would be expected.
- The presence of ductwork under the house will add approximately \$20,000 to the cost to raise the home
- The presence of gas under the house will add approximately \$4,000 to the cost to raise the home
- Lifting the house costs approximately \$5,000 per vertical linear foot.

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We then reviewed the house attributes and the bid price for the five single family homes that were bid by the City of Hampton in the spring of 2022. (Only one bid was received for each home, limiting accurate correlations/data). The following information is summarized on the first attached spreadsheet. We determined the first-floor footprint of each of the homes (excluding porches and decks) to attribute any potential cost variation that may be related to the effort and equipment required to raise the home. In support of the information provided by Mr. Gottlieb, there appears to be a minor correlation when comparing the bid price to the square footage of the building footprint. Cost per square foot varies from \$127.00/SF for 427 Shoreline Drive (2,041 SF), to \$228.00/SF for 110 Bonita Ave (972 SF). One reason for this is likely that the specialized nature of the work requires a commitment of materials, equipment, and resources that inflates the cost to mobilize. Also, as noted by Mr. Gottlieb, several factors besides square footage, such as the height to raise the building, the existing foundation, and the height of the structure, also impact the cost of construction.

Continuing with the assessment of the five single family homes that were bid in the spring of 2022, the height required to raise each home was then factored. 427 Shoreline Drive is to be raised the highest of the five homes, but the low bid cost per square foot of building footprint is the lowest of the five homes that were assessed. This implies, as Mr. Gottlieb suggests, that other factors besides the height to be raised should be considered. 427 Shoreline Drive is a single-story brick veneer building on a crawl space. The second-lowest cost per square foot home is 918 Beach Road, which has a half two-story and is on a crawl space but is the only home of the five assessed that has a closed foundation. 427 Shoreline Drive and 918 Beach Road have the largest footprints of the five homes assessed.

Two of the five homes are currently on slab foundations and three are on crawl spaces. Based on the assessment of building footprint and height to be raised relative to bid price, we confirmed Mr. Gottlieb's statement that the presence of a crawl space eases the lifting process and is therefore less expensive to raise than a house on a slab. We also know from our discussions with Mr. Gottlieb, that a two-story home is only slightly more expensive to raise than a single story. To arrive at an exponent for the presence of these attributes, a base line formula was applied to all five homes as follows: $(\$50,000 \text{ for mobilization}) + (\text{Square feet of house footprint} \times \$85) + (\text{Height to be raised} \times \$5,000)$. The value for this equation closely aligns with the actual low bid for 427 Shoreline Drive, which, of the 5 homes assessed, is the only single-story house on a crawl space. When applied to the houses with slabs and two stories, the resultant values for this equation were less than the actual low bid, further indicating that the presence of a slab or a second story raised the bid price. Per Steve Gottlieb's recommendation, \$50,000 was then added to the price for the houses on slabs and is indicated on a separate column on the attached spreadsheet. By comparing the difference between the bid prices and the resultant values for each home, it was determined that other considerations such as building height would raise the bid price by a factor of 1.1 – 1.2 as applied to the square footage of the building. The final equation reads as follows: $(\$50,000 \text{ for mobilization}) + (\text{Square feet of house footprint} \times \$85 \times \text{Multiplier for bdg height}) + (\text{Height}$

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$to\ be\ raised\ \times\ \$5,000) + (50,000\ for\ presence\ of\ a\ slab) = Bid\ price$. It should be recognized that, given the small data set, there are numerous equations/inputs that can result in arriving at values approximate to the bid price. The factors utilized in the attached spreadsheets reflect the correlations derived from a data set limited to five homes. Also, note that the interior and exterior improvements have not been considered but vary across homes in the data set. For this reason, additional factors, as described below, may be considered when establishing a project budget.

The calculations that were derived from the exercise described above were applied to the homes for which Emergency Management is requesting review. This information is provided on a second spreadsheet, attached. Because the City has not begun design on these homes, it is assumed that all homes will be raised 8.0'. Further assessment of the height required to raise these homes may be beneficial to establishing more accurate budgets. A multiplier of 1.1 was applied to 423 West Gilbert Street (half a two story), and 1.2 applied to 417 West Gilbert Street (entire two story).

It is important to note that the analyzed data set of the five single family homes currently under contract were obtained from bid results that included only one responsible bidder. Contractor bids for eight houses raised in 2017 through 2019 were also provided to DJG for review. For each of these homes, there were three to five bids submitted. Averaging these bids for each home, the lowest bid was approximately \$83,000 less than the median bid, which is about 20% of the value of the low bid. (When five bids were submitted, the high and low bids were excluded from the calculation.) It may be important for the City to budget based on the anticipated median bid, rather than to expect future bids to align with the low bidder for previous flood mitigation projects. Also, yearly inflation was not considered in our assessment of the budgets, however, the United States is currently experiencing record inflation of approximately 12% for the current year.

We hope that this assessment of your proposed preliminary budgets for future flood mitigation projects meets your expectations. Please do not hesitate to reach out with any questions that you may have.

Sincerely,



Darren R. Curtis; PLA, LEED AP

Project Manager

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City of Hampton Emergency Management
 Flood Mitigation Budget Review

Assessment of Existing Data (2022)

Address	Year Bid	Building Type/# of stories	Existing Foundation	Outliers / Special Conditions	Building Footprint (SF)	Floor area per Emergency Mgmt.	New Foundation	Height to be raised (Ft)	Construction Low Bid	Low bid / SF of footprint	Base Formula (\$50K mobilization) + (Bdg footprint x \$85) + (Height to be raised x \$5,000)	Add \$50,000 for slab condition	Multiplier for special conditions and/or second story	Base Formula + Slab Add (as Applicable) w/ multiplier applied
204 Lighthouse Dr	2022	1 story masonry	slab	lighthouse in way	1400	1276	Open	7.55	\$280,000.00	\$200.00	\$206,750.00	\$256,750.00	1.2	\$280,550.00
918 Beach Rd	2022	2 story siding	crawl	half is two-story	1722	2080	Closed	5.53	\$240,000.00	\$139.37	\$224,020.00	NA	1.1	\$238,657.00
110 Bonita Dr	2022	1 story masonry	slab		972	972	Open	7.1	\$222,000.00	\$228.40	\$168,120.00	\$218,120.00	1.1	\$226,382.00
427 Shoreline Dr	2022	1 story brick veneer	crawl	411 sf is garage to be raised	2041	1553	Open	8.75	\$260,000.00	\$127.39	\$267,235.00	NA	1	\$267,235.00
220 Washington St	2022	2 story brick veneer	crawl	1/4 basement	1088	1914	Open	6.7	\$234,000.00	\$215.07	\$175,980.00	NA	1.5	\$222,220.00

City of Hampton Emergency Management
 Flood Mitigation Budget Review

Proposed Budget Spreadsheet

Address	Stories	Existing Foundation per Emergency Mgmt.	Floor area per Emergency Mgmt.	Building Footprint (SF) (From Google Earth)	Max Ht to be raised	Recommended Project Budget*
408 W Gilbert St	1	Split	2988	3270	8.0	\$417,950
409 W Gilbert St	1	Split	1890	2400	8.0	\$344,000
411 W Gilbert St	1	Crawl	1596	2270	8.0	\$282,950
412 W Gilbert St	1	Split	1611	1970	8.0	\$307,450
413 W Gilbert St	1	Split	1541	1900	8.0	\$301,500
417 W Gilbert St	2	Crawl	1996	1500	8.0	\$243,000
418 W Gilbert St	1	Crawl	1548	1900	8.0	\$251,500
419 W Gilbert St	1	Crawl	1253	1840	8.0	\$246,400
420 W Gilbert St	1	Crawl	1957	2220	8.0	\$278,700
423 W Gilbert St	2 (partial)	Crawl	2032	2500	8.0	\$323,750
424 W Gilbert St	1	Crawl	1587	2400	8.0	\$294,000
314 Roane Dr	1	Slab	883	1350	8.0	\$254,750
402 Roane Dr	1	Slab	993	1150	8.0	\$237,750 **
406 Roane Dr	1	Slab	1397	1430	8.0	\$261,550
407 Roane Dr	1	Split	1363	1300	8.0	\$250,500
408 Roane Dr	1	Slab	707	850	8.0	\$212,250 **

* (\$50,000 Mobilization) + (Building Footprint x \$85 x Multiplier of 1.1 - 1.2, as applicable for second story) + (\$5,000 per VLF raised) + (\$50,000 for slab condition as applicable). Excludes inflation

**Reflects the calculations noted above. Minimum of \$250,000 budget recommended for all houses on slabs



Grant Application Worksheet #1 - 412 W GILBERT ST

Introduction

General

Category: Elevation (Acquisition Worksheet)

Site Name: 412 W GILBERT ST

Used to help identify the worksheet/location. Ex: "Old City Hall Building". Use property address when possible.

Location

Location: Independent City of Hampton

Address: 412 W GILBERT ST

City: Hampton

State: VA - Virginia

Zip Code: 23669

Latitude: 37.052111

In Decimal Format

Longitude: -76.356447

In Decimal Format

Legal Description: THE PASTURES L16.

Property Tax ID: 8005469

Flood Zone(s): AE or A 1-30

Hold the CTRL key to select multiple zones. Please Note: Any local government as defined in 44 CFR 201.2 developing a mitigation project for FEMA funding for disasters declared post November 1, 2004 must have an approved mitigation plan in place which complies with all applicable 44 CFR 201 requirements.

Structure Identification

Severe Repetitive Loss ID#:

Repetitive Loss ID#:

Flood Insurance Policy #:

Tax Map ID#:

Property Located in SFHA?

Have any insurance proceeds been received on this site, or are you anticipating any insurance proceeds?

Description	Amount	Status
Damages from Hurricane Irene - 8/27/11	\$ 12,505.29	Received
Damages from Nor'easter 11/12/2009	\$ 71,047.51	Received
Damages from flooding 11/22/2006	\$ 3,995.08	Received
Damages from flooding 10/6/2006	\$ 2,756.72	Received
Damages from Hurricane Isabel	\$ 46,935.07	Received
Damages from flooding 2/5/1998	\$ 3,048.16	Received
Damages from flooding 4/26/1978	\$ 203.55	Received

Building Owners

Note that to copy from the worksheet address, simply press Save after entering the worksheet address.

First Name	Last Name	Address	City	State	Zip
Marion	Kirby	412 W GILBERT ST	Hampton	VA	23669

Contact Information:

marionkirby88@yahoo.com
(757)224-3468

Email, Phone Numbers, Fax Number, etc.

Building Information

General Information

Building Type:	1 Story Structure (no basement)
Building Use:	Owner Occupied
Construction Type:	Wood Frame Non-Engineered
Foundation Type:	Other: Crawl and Slab
Describe any sub-floor Utilities (if any):	N/A
Year Constructed:	1956
Are there accessory or out buildings on the property?	Yes - Detached
Please describe (location, type of structure, age, value):	Not part of the project
NFIP Policy Number (if insured):	N/A
NFIP RL Number (if insured):	N/A
Number of stories above grade:	1 stories

Size and Use

Total square footage of main structure:	1611 feet ²
Living area square footage:	1611 feet ²
Square Footage of Porches:	100 feet ²
Square Footage of Decks:	0 feet ²

Square Footage of Attached Garage:

 feet²

Square Footage of Basement:

 feet²

Year addition(s) were added to the structure:

Building Value

Estimated replacement value: \$

Use RS Means or another documentable source.

Replacement Value Source:

Please attach supporting documentation.

Value per foot²:

\$

Floodplain Information

Base Flood Elevation (BFE):

Design Flood Elevation (DFE):

If there is a freeboard requirement.

First Floor Elevation (FFE):

Lowest Horizontal Adjacent Member if a VE Zone House.

Lowest Adjacent Grade:

Total Feet First Floor is Being Raised:

Flood Zone:

Use data from flood insurance study. If Coastal A and V Zone, select V.

10-year Stillwater Elevation:

50-year Stillwater Elevation:

100-year Stillwater Elevation:

7.8

500-year Stillwater Elevation:

9.4

Is the property considered to be substantially damaged by the locality (50% or more of the value of the structure is damaged as a result of a flood), with a supporting letter?

No

Damage History

Use the below table to describe past damages on this location.

Date - date of the disaster;

Storm Frequency - Example: 10 year flood; 5 year hurricane;

Damages - Brief description of damages;

As applicable to this property, describe damage from all flood events identified in the primary project application. Please create separate line items for Structure Damages and Content Damages.

Date	Event Level	Water Depth	Damage	Total Costs	
Aug 27, 2011	<input type="text"/>	<input type="text"/>	Damages from Hurricane Irene	\$ 12,505.29	
Nov 12, 2009	<input type="text"/>	<input type="text"/>	Damages from Nor'easter	\$ 71,047.51	
Nov 22, 2006	<input type="text"/>	<input type="text"/>	Damages from Flood Event	\$ 3,995.08	
Oct 6, 2006	<input type="text"/>	<input type="text"/>	Damages from Nor'easter	\$ 2,756.72	
Sep 18, 2003	<input type="text"/>	<input type="text"/>	Damages from Hurricane Isabel	\$ 46,935.07	
Feb 5, 1998	<input type="text"/>	<input type="text"/>	Damages from flood event	\$ 3,048.16	
Apr 26, 1978	<input type="text"/>	<input type="text"/>	Damages from flood event	\$ 203.55	

Costs

Cost Line Items

Select One

In this section, provide the details of all costs of the project. As this information is used for the Benefit-Cost Analysis, reasonable cost estimates are essential. As project administrative costs are calculated on a sliding scale, do not include this in the budget. List all items and costs in line item fashion.

- For Labor, include equipment costs -- please indicate all "soft" or in-kind matches.
- For Fees Paid, include any other costs associated with the project.
- Do not include indirect costs in project management costs.

Type	Description	Qty	Unit	Price	Pre-Award	Total
Engineering Designs	Site surveys, geotechnical sampling and soil studies, engineering drawings, site inspections	1	Bundle	\$ 40,000.00	No	\$40,000.00
Temporary Relocation	Assistance of \$1500/month for temporary relocation for project period of 4 months.	1	Bundle	\$ 6,000.00	No	\$6,000.00
Elevation/Lifting	Disconnection of utilities, preparation of structure, placement of beams, lifting and lowering structure; placement and reinforcement of cribbing	1	Job	\$ 92,235.00	No	\$92,235.00
Foundation	Build new foundation; framing/construction of subfloor; insulation; construction of ingress/egress structures; reconnection of utilities	1	Job	\$ 215,215.00	No	\$215,215.00
Construction Management Costs	Monitoring site; inspections by Engineer of Record; photo diary, field inspection reports	1	Job	\$ 15,372.00	No	\$15,372.00
Handicap Ramp/Wheelchair Lift (Must have Doctor's Note)	Physician certified requirement for access.	1	Job	\$ 10,000.00	No	\$10,000.00
Attorney Fees	Legal searches and deed restriction.	1	Job	\$ 5,000.00	No	\$5,000.00
Grand Total						\$383,822.00

Historic Review

Has the ground at the project location been disturbed other than by agriculture?

To your knowledge, have Indian or historic artifacts been found on or adjacent to the project area?

i.e. arrowheads, old bottles, square nails, etc.

What is the approximate size of the project area (acres)?

 Acres

Is there a building 50 years old or older within or near the project area?

Year of Construction:



Grant Application Worksheet #1 - 413 W GILBERT ST

Introduction

General

Category: Elevation (Acquisition Worksheet)

Site Name: 413 W GILBERT ST

Used to help identify the worksheet/location. Ex: "Old City Hall Building". Use property address when possible.

Location

Location: Independent City of Hampton

Address: 413 W GILBERT ST

City: Hampton

State: VA - Virginia

Zip Code: 23669

Latitude: 37.051721

In Decimal Format

Longitude: -76.356788

In Decimal Format

Legal Description: THE PASTURES L16.

Property Tax ID: 8005469

Flood Zone(s): AE or A 1-30

Hold the CTRL key to select multiple zones. Please Note: Any local government as defined in 44 CFR 201.2 developing a mitigation project for FEMA funding for disasters declared post November 1, 2004 must have an approved mitigation plan in place which complies with all applicable 44 CFR 201 requirements.

Structure Identification

Severe Repetitive Loss ID#:

Repetitive Loss ID#:

Flood Insurance Policy #:

Tax Map ID#:

Property Located in SFHA?

Have any insurance proceeds been received on this site, or are you anticipating any insurance proceeds?

Description	Amount	Status
Damages from Hurricane Irene - 8/27/2011	\$ 13,635.19	Received
Damages from Nor'easter - 11/11/2009	\$ 68,431.39	Received
Damages from Hurricane Isabel - 9/18/2003	\$ 54,777.57	Received
Damages from flood event - 2/5/1998	\$ 5,393.57	Received

Building Owners

Note that to copy from the worksheet address, simply press Save after entering the worksheet address.

First Name	Last Name	Address	City	State	Zip
John	Doerner	413 W GILBERT ST	Hampton	VA	23669

Contact Information:

kaiserluna1967@gmail.com
(513)255-7633

Email, Phone Numbers, Fax Number, etc.

Building Information

General Information

Building Type:	1 Story Structure (no basement)
Building Use:	Owner Occupied
Construction Type:	Wood Frame Non-Engineered
Foundation Type:	Other: Sub-Grade Crawl
Describe any sub-floor Utilities (if any):	N/A
Year Constructed:	1956
Are there accessory or out buildings on the property?	Yes - Detached
Please describe (location, type of structure, age, value):	Not part of project
NFIP Policy Number (if insured):	N/A
NFIP RL Number (if insured):	N/A
Number of stories above grade:	1 stories

Size and Use

Total square footage of main structure:	1541 feet ²
Living area square footage:	1541 feet ²
Square Footage of Porches:	0 feet ²
Square Footage of Decks:	264 feet ²

Square Footage of Attached Garage:

242 feet²

Square Footage of Basement:

0 feet²

Year addition(s) were added to the structure:

N/A

Building Value

Estimated replacement value: \$

154,100.00

Use RS Means or another documentable source.

Replacement Value Source:

Based on FEMA default value of \$100 per Sqft

Please attach supporting documentation.

Value per foot²:

\$ 154,108.85

Floodplain Information

Base Flood Elevation (BFE):

8

Design Flood Elevation (DFE):

11

If there is a freeboard requirement.

First Floor Elevation (FFE):

4.3

Lowest Horizontal Adjacent Member if a VE Zone House.

Lowest Adjacent Grade:

4.3

Total Feet First Floor is Being Raised:

6.7

Flood Zone:

Coastal A Zone

Use data from flood insurance study. If Coastal A and V Zone, select V.

10-year Stillwater Elevation:

5.5

50-year Stillwater Elevation:

7.2

100-year Stillwater Elevation:

500-year Stillwater Elevation:

Is the property considered to be substantially damaged by the locality (50% or more of the value of the structure is damaged as a result of a flood), with a supporting letter?

Damage History

Use the below table to describe past damages on this location.

Date - date of the disaster;

Storm Frequency - Example: 10 year flood; 5 year hurricane;

Damages - Brief description of damages;

As applicable to this property, describe damage from all flood events identified in the primary project application. Please create separate line items for Structure Damages and Content Damages.

Date	Event Level	Water Depth	Damage	Total Costs	
Aug 27, 2011	<input type="text"/>	<input type="text"/>	Damages from Hurricane Irene	\$ 13,635.19	
Nov 11, 2009	<input type="text"/>	<input type="text"/>	Damages from Nor'easter	\$ 68,431.00	
Sep 18, 2003	<input type="text"/>	<input type="text"/>	Damages from Hurricane Isabel	\$ 54,777.57	
Feb 5, 1998	<input type="text"/>	<input type="text"/>	Damages from flood event	\$ 5,393.57	

Costs

Cost Line Items

Select One

In this section, provide the details of all costs of the project. As this information is used for the Benefit-Cost Analysis, reasonable cost estimates are essential. As project administrative costs are calculated on a sliding scale, do not include this in the budget. List all items and costs in line item fashion.

- For Labor, include equipment costs -- please indicate all "soft" or in-kind matches.
- For Fees Paid, include any other costs associated with the project.
- Do not include indirect costs in project management costs.

Type	Description	Qty	Unit	Price	Pre-Award	Total
Engineering Designs	Site surveys, geotechnical sampling and soil studies, engineering drawings, site inspections	1	Bundle	\$ 40,000.00	No	\$40,000.00
Temporary Relocation	Assistance of \$1500/month for temporary relocation for project period of 4 months.	1	Bundle	\$ 6,000.00	No	\$6,000.00
Elevation/Lifting	Disconnection of utilities, preparation of structure, placement of beams, lifting and lowering structure; placement and reinforcement of cribbing	1	Job	\$ 90,450.00	No	\$90,450.00
Foundation	Build new foundation; framing/construction of subfloor; insulation; construction of ingress/egress structures; reconnection of utilities	1	Job	\$ 211,050.00	No	\$211,050.00
Construction Management Costs	Monitoring site; inspections by Engineer of Record; photo diary, field inspection reports	1	Job	\$ 15,075.00	No	\$15,075.00
Attorney Fees	Legal searches and deed restriction	1	Job	\$ 5,000.00	No	\$5,000.00
Grand Total						\$367,575.00

Historic Review

Has the ground at the project location been disturbed other than by agriculture?

No

To your knowledge, have Indian or historic artifacts been found on or adjacent to the project area?

No

i.e. arrowheads, old bottles, square nails, etc.

What is the approximate size of the project area (acres)?

0.08 Acres

Is there a building 50 years old or older within or near the project area?

Yes

Year of Construction:

1956

Grant Application Worksheet #1 - 417 W GILBERT ST



Introduction

General

Category: Elevation (Acquisition Worksheet)

Site Name: 417 W GILBERT ST

Used to help identify the worksheet/location. Ex: "Old City Hall Building". Use property address when possible.

Location

Location: Independent City of Hampton

Address: 417 W GILBERT ST

City: Hampton

State: VA - Virginia

Zip Code: 23669

Latitude: 37.051886

In Decimal Format

Longitude: -76.357317

In Decimal Format

Legal Description: THE PASTURES L8.

Property Tax ID: 8005462

Flood Zone(s): AE or A 1-30

Hold the CTRL key to select multiple zones. Please Note: Any local government as defined in 44 CFR 201.2 developing a mitigation project for FEMA funding for disasters declared post November 1, 2004 must have an approved mitigation plan in place which complies with all applicable 44 CFR 201 requirements.

Structure Identification

Severe Repetitive Loss ID#:

Repetitive Loss ID#:

Flood Insurance Policy #:

Tax Map ID#:

Property Located in SFHA?

Have any insurance proceeds been received on this site, or are you anticipating any insurance proceeds?

Description	Amount	Status
Damages from flood event 10/30/2012	\$ 3,040.93	Received
Damages from Hurricane Irene -8/27/2011	\$ 23,243.46	Received
Damages from Nor'easter 11/14/2009	\$ 83,700.00	Received
Damages from flood event 10/6/2006	\$ 2,758.09	Received
Damages from Hurricane Isabel - 9/18/2003	\$ 52,573.68	Received

Building Owners

Note that to copy from the worksheet address, simply press Save after entering the worksheet address.

First Name	Last Name	Address	City	State	Zip
Sonja	Hawthorne	417 W GILBERT ST	Hampton	VA	23669

Contact Information:

David Fowler - Power of Attorney Holder
dfowler9@icloud.com

Email, Phone Numbers, Fax Number, etc.

Building Information

General Information

Building Type:	2 Story Structure (no basement)
Building Use:	Owner Occupied
Construction Type:	Wood Frame Non-Engineered
Foundation Type:	Crawl Space
Describe any sub-floor Utilities (if any):	N/A
Year Constructed:	1955
Are there accessory or out buildings on the property?	Yes - Detached
Please describe (location, type of structure, age, value):	Not part of project
NFIP Policy Number (if insured):	N/A
NFIP RL Number (if insured):	N/A
Number of stories above grade:	2 stories

Size and Use

Total square footage of main structure:	1955 feet ²
Living area square footage:	1955 feet ²
Square Footage of Porches:	180 feet ²
Square Footage of Decks:	83 feet ²

Square Footage of Attached Garage:

361 feet²

Square Footage of Basement:

0 feet²

Year addition(s) were added to the structure:

Unknown

Building Value

Estimated replacement value: \$

195,500.00

Use RS Means or another documentable source.

Replacement Value Source:

Based on FEMA default value of \$100 per Sqft

Please attach supporting documentation.

Value per foot²:

\$ 195,509.86

Floodplain Information

Base Flood Elevation (BFE):

8

Design Flood Elevation (DFE):

11

If there is a freeboard requirement.

First Floor Elevation (FFE):

6.3

Lowest Horizontal Adjacent Member if a VE Zone House.

Lowest Adjacent Grade:

4

Total Feet First Floor is Being Raised:

4.7

Flood Zone:

Coastal A Zone

Use data from flood insurance study. If Coastal A and V Zone, select V.

10-year Stillwater Elevation:

5.5

50-year Stillwater Elevation:

7.2

100-year Stillwater Elevation:

500-year Stillwater Elevation:

Is the property considered to be substantially damaged by the locality (50% or more of the value of the structure is damaged as a result of a flood), with a supporting letter?

Damage History

Use the below table to describe past damages on this location.

Date - date of the disaster;

Storm Frequency - Example: 10 year flood; 5 year hurricane;

Damages - Brief description of damages;

As applicable to this property, describe damage from all flood events identified in the primary project application. Please create separate line items for Structure Damages and Content Damages.

Date	Event Level	Water Depth	Damage	Total Costs	
Oct 30, 2012	<input type="text"/>	<input type="text"/>	Damages from flood event	\$ 3,040.93	
Aug 27, 2011	<input type="text"/>	<input type="text"/>	Damages from Hurricane Irene	\$ 23,243.46	
Nov 14, 2009	<input type="text"/>	<input type="text"/>	Damages from Nor'easter	\$ 83,700.00	
Oct 6, 2006	<input type="text"/>	<input type="text"/>	Damages from flood event	\$ 2,758.09	
Sep 18, 2003	<input type="text"/>	<input type="text"/>	Damages from Hurricane Isabel	\$ 52,573.68	

Costs

Cost Line Items

Select One

In this section, provide the details of all costs of the project. As this information is used for the Benefit-Cost Analysis, reasonable cost estimates are essential. As project administrative costs are calculated on a sliding scale, do not include this in the budget. List all items and costs in line item fashion.

- For Labor, include equipment costs -- please indicate all "soft" or in-kind matches.
- For Fees Paid, include any other costs associated with the project.
- Do not include indirect costs in project management costs.

Type	Description	Qty	Unit	Price	Pre-Award	Total
Engineering Designs	Site surveys, geotechnical sampling and soil studies, engineering drawings, site inspections	1	Bundle	\$ 40,000.00	No	\$40,000.00
Temporary Relocation	Assistance of \$1500/month for temporary relocation for project period of 3 months.	1	Bundle	\$ 4,500.00	No	\$4,500.00
Elevation/Lifting	Disconnection of utilities, preparation of structure, placement of beams, lifting and lowering structure; placement and reinforcement of cribbing	1	Job	\$ 72,900.00	No	\$72,900.00
Foundation	Build new foundation; framing/construction of subfloor; insulation; construction of ingress/egress structures; reconnection of utilities	1	Job	\$ 170,100.00	No	\$170,100.00
Pre-Award Elevation Certificate	EC	1	Job	\$ 500.00	Yes	\$500.00
Construction Management Costs	Monitoring site; inspections by Engineer of Record; photo diary, field inspection reports	1	Job	\$ 12,150.00	No	\$12,150.00
Handicap Ramp/Wheelchair Lift (Must have Doctor's Note)	Physician certified requirement for access.	1	Job	\$ 10,000.00	No	\$10,000.00
Attorney Fees	Legal searches and deed restriction	1	Job	\$ 5,000.00	No	\$5,000.00
Grand Total						\$315,150.00

Historic Review

Has the ground at the project location been disturbed other than by agriculture?

No

To your knowledge, have Indian or historic artifacts been found on or adjacent to the project area?

No

i.e. arrowheads, old bottles, square nails, etc.

What is the approximate size of the project area (acres)?

0.09 Acres

Is there a building 50 years old or older within or near the project area?

Yes

Year of Construction:

1955

Grant Application Worksheet #1 - 418 W GILBERT ST



Introduction

General

Category:

Site Name:

Used to help identify the worksheet/location. Ex: "Old City Hall Building". Use property address when possible.

Location

Location:

Address:

City:

State:

Zip Code:

Latitude:

In Decimal Format

Longitude:

In Decimal Format

Legal Description:

Property Tax ID:

Flood Zone(s):

Hold the CTRL key to select multiple zones. Please Note: Any local government as defined in 44 CFR 201.2 developing a mitigation project for FEMA funding for disasters declared post November 1, 2004 must have an approved mitigation plan in place which complies with all applicable 44 CFR 201 requirements.

Structure Identification

Severe Repetitive Loss ID#:

Repetitive Loss ID#:

Flood Insurance Policy #:

Tax Map ID#:

Property Located in SFHA?

Have any insurance proceeds been received on this site, or are you anticipating any insurance proceeds?

Description	Amount	Status
Damages from Hurricane Irene - 8/27/2011	\$ 4,797.69	Received
Damages from Nor'easter 11/12/2009	\$ 16,365.42	Received
Damages from flood event 10/8/2006	\$ 3,726.69	Received
Damages from Hurricane Isabel - 9/18/2003	\$ 43,495.55	Received

Building Owners

Note that to copy from the worksheet address, simply press Save after entering the worksheet address.

First Name	Last Name	Address	City	State	Zip
Wanless	Scott	418 W GILBERT ST	Hampton	VA	23669
Helen	Scott	418 W GILBERT ST	Hampton	VA	23669

Contact Information:

(757)722-4580

Email, Phone Numbers, Fax Number, etc.

Building Information

General Information

Building Type:	1 Story Structure (no basement)
Building Use:	Owner Occupied
Construction Type:	Wood Frame Non-Engineered
Foundation Type:	Crawl Space
Describe any sub-floor Utilities (if any):	N/A
Year Constructed:	1958
Are there accessory or out buildings on the property?	Yes - Detached
Please describe (location, type of structure, age, value):	Not part of the project
NFIP Policy Number (if insured):	N/A
NFIP RL Number (if insured):	N/A
Number of stories above grade:	1 stories

Size and Use

Total square footage of main structure:	1548 feet ²
Living area square footage:	1548 feet ²
Square Footage of Porches:	0 feet ²
Square Footage of Decks:	0 feet ²

Square Footage of Attached Garage:

296 feet²

Square Footage of Basement:

0 feet²

Year addition(s) were added to the structure:

Unknown

Building Value

Estimated replacement value: \$ 154,800.00

Use RS Means or another documentable source.

Replacement Value Source:

Based on FEMA default value of \$100 per Sqft

Please attach supporting documentation.

Value per foot²:

\$ 154,807.65

Floodplain Information

Base Flood Elevation (BFE):

9

Design Flood Elevation (DFE):

12

If there is a freeboard requirement.

First Floor Elevation (FFE):

7.4

Lowest Horizontal Adjacent Member if a VE Zone House.

Lowest Adjacent Grade:

4.2

Total Feet First Floor is Being Raised:

4.6

Flood Zone:

Coastal A Zone

Use data from flood insurance study. If Coastal A and V Zone, select V.

10-year Stillwater Elevation:

5.5

50-year Stillwater Elevation:

7.2

100-year Stillwater Elevation:

500-year Stillwater Elevation:

Is the property considered to be substantially damaged by the locality (50% or more of the value of the structure is damaged as a result of a flood), with a supporting letter?

Damage History

Use the below table to describe past damages on this location.

Date - date of the disaster;

Storm Frequency - Example: 10 year flood; 5 year hurricane;

Damages - Brief description of damages;

As applicable to this property, describe damage from all flood events identified in the primary project application. Please create separate line items for Structure Damages and Content Damages.

Date	Event Level	Water Depth	Damage	Total Costs	
Aug 27, 2011	<input type="text"/>	<input type="text"/>	Hurricane Irene - flooding	\$ 4,797.69	
Nov 12, 2009	<input type="text"/>	<input type="text"/>	Nor'easter - flood damages	\$ 16,365.42	
Oct 8, 2006	<input type="text"/>	<input type="text"/>	Flood Event	\$ 3,726.69	
Sep 18, 2003	<input type="text"/>	<input type="text"/>	Hurricane Isabel - flood damages	\$ 43,495.55	

Costs

Cost Line Items

Select One

In this section, provide the details of all costs of the project. As this information is used for the Benefit-Cost Analysis, reasonable cost estimates are essential. As project administrative costs are calculated on a sliding scale, do not include this in the budget. List all items and costs in line item fashion.

- For Labor, include equipment costs -- please indicate all "soft" or in-kind matches.
- For Fees Paid, include any other costs associated with the project.
- Do not include indirect costs in project management costs.

Type	Description	Qty	Unit	Price	Pre-Award	Total
Engineering Designs	Site surveys, geotechnical sampling and soil studies, engineering drawings, site inspections	1	Bundle	\$ 40,000.00	No	\$40,000.00
Temporary Relocation	Assistance of 1500/month for temporary relocation for project period of 3 months.	1	Bundle	\$ 4,500.00	No	\$4,500.00
Elevation/Lifting	Disconnection of utilities, preparation of structure, placement of beams, lifting and lowering structure; placement and reinforcement of cribbing	1	Job	\$ 75,450.00	No	\$75,450.00
Foundation	Build new foundation; framing/construction of subfloor; insulation; construction of ingress/egress structures; reconnection of utilities	1	Job	\$ 166,050.00	No	\$166,050.00
Pre-Award Elevation Certificate	Elevation certificate needed to run BCA	1	Job	\$ 500.00	Yes	\$500.00
Construction Management Costs	Monitoring site; inspections by Engineer of Record; photo diary, field inspection reports	1	Job	\$ 12,075.00	No	\$12,075.00
Handicap Ramp/Wheelchair Lift (Must have Doctor's Note)	Physician certified requirement for access.	1	Job	\$ 10,000.00	No	\$10,000.00
Attorney Fees	Legal searches and deed restriction	1	Job	\$ 5,000.00	No	\$5,000.00
Grand Total						\$313,575.00

Historic Review

Has the ground at the project location been disturbed other than by agriculture?

No

To your knowledge, have Indian or historic artifacts been found on or adjacent to the project area?

No

i.e. arrowheads, old bottles, square nails, etc.

What is the approximate size of the project area (acres)?

0.08 Acres

Is there a building 50 years old or older within or near the project area?

Yes

Year of Construction:

1958

Grant Application Worksheet #1 - 419 W GILBERT ST



Introduction

General

Category: Elevation (Acquisition Worksheet)

Site Name: 419 W GILBERT ST

Used to help identify the worksheet/location. Ex: "Old City Hall Building". Use property address when possible.

Location

Location: Independent City of Hampton

Address: 419 W GILBERT ST

City: Hampton

State: VA - Virginia

Zip Code: 23669

Latitude: 37.051946

In Decimal Format

Longitude: -76.357633

In Decimal Format

Legal Description: THE PASTURES L9.

Property Tax ID: 8005463

Flood Zone(s): AE or A 1-30

Hold the CTRL key to select multiple zones. Please Note: Any local government as defined in 44 CFR 201.2 developing a mitigation project for FEMA funding for disasters declared post November 1, 2004 must have an approved mitigation plan in place which complies with all applicable 44 CFR 201 requirements.

Structure Identification

Severe Repetitive Loss ID#:

Repetitive Loss ID#:

Flood Insurance Policy #:

Tax Map ID#:

Property Located in SFHA?

Have any insurance proceeds been received on this site, or are you anticipating any insurance proceeds?

Description	Amount	Status
Damages from Hurricane Irene - 8/27/2011	\$ 83,178.52	Received
Damages from Nor'easter 11/12/2009	\$ 102,129.95	Received
Damages from Hurricane Isabel - 9/18/2003	\$ 56,805.65	Received

Building Owners

Note that to copy from the worksheet address, simply press Save after entering the worksheet address.

First Name	Last Name	Address	City	State	Zip
Christopher	Matthiae	419 W GILBERT ST	Hampton	VA	23669

Contact Information:

cmatthiae@hampton.gov
(757)951-8653

Email, Phone Numbers, Fax Number, etc.

Building Information

General Information

Building Type:

Building Use:

Construction Type:

Foundation Type:

Describe any sub-floor Utilities (if any):

Year Constructed:

Are there accessory or out buildings on the property?

Please describe (location, type of structure, age, value):

NFIP Policy Number (if insured):

NFIP RL Number (if insured):

Number of stories above grade: stories

Size and Use

Total square footage of main structure: feet²

Living area square footage: feet²

Square Footage of Porches: feet²

Square Footage of Decks: feet²

Square Footage of Attached Garage:

298 feet²

Square Footage of Basement:

0 feet²

Year addition(s) were added to the structure:

N/A

Building Value

Estimated replacement value: \$ 125,300.00

Use RS Means or another documentable source.

Replacement Value Source:

Based on FEMA default value of \$100 per Sqft

Please attach supporting documentation.

Value per foot²:

\$ 125,313.62

Floodplain Information

Base Flood Elevation (BFE):

8

Design Flood Elevation (DFE):

11

If there is a freeboard requirement.

First Floor Elevation (FFE):

5.9

Lowest Horizontal Adjacent Member if a VE Zone House.

Lowest Adjacent Grade:

3.5

Total Feet First Floor is Being Raised:

5.1

Flood Zone:

Coastal A Zone

Use data from flood insurance study. If Coastal A and V Zone, select V.

10-year Stillwater Elevation:

5.5

50-year Stillwater Elevation:

7.2

100-year Stillwater Elevation:

7.8

500-year Stillwater Elevation:

9.4

Is the property considered to be substantially damaged by the locality (50% or more of the value of the structure is damaged as a result of a flood), with a supporting letter?

No

Damage History

Use the below table to describe past damages on this location.

Date - date of the disaster;

Storm Frequency - Example: 10 year flood; 5 year hurricane;

Damages - Brief description of damages;

As applicable to this property, describe damage from all flood events identified in the primary project application. Please create separate line items for Structure Damages and Content Damages.

Date	Event Level	Water Depth	Damage	Total Costs	
Aug 27, 2011	<input type="text"/>	<input type="text"/>	Hurricane Irene - flood damages	\$ 83,178.52	
Nov 12, 2009	<input type="text"/>	<input type="text"/>	Nor'easter - flood damages	\$ 102,129.95	
Sep 18, 2003	<input type="text"/>	<input type="text"/>	Hurricane Isabel -flood damages	\$ 56,805.65	

Costs

Cost Line Items

Select One

In this section, provide the details of all costs of the project. As this information is used for the Benefit-Cost Analysis, reasonable cost estimates are essential. As project administrative costs are calculated on a sliding scale, do not include this in the budget. List all items and costs in line item fashion.

- For Labor, include equipment costs -- please indicate all "soft" or in-kind matches.
- For Fees Paid, include any other costs associated with the project.
- Do not include indirect costs in project management costs.

Type	Description	Qty	Unit	Price	Pre-Award	Total
Engineering Designs	Site surveys, geotechnical sampling and soil studies, engineering drawings, site inspections	1	Bundle	\$ 40,000.00	No	\$40,000.00
Temporary Relocation	Assistance of 1500/month for temporary relocation for project period of 4 months.	1	Bundle	\$ 6,000.00	No	\$6,000.00
Elevation/Lifting	Disconnection of utilities, preparation of structure, placement of beams, lifting and lowering structure; placement and reinforcement of cribbing	1	Job	\$ 73,920.00	No	\$73,920.00
Foundation	Build new foundation; framing/construction of subfloor; insulation; construction of ingress/egress structures; reconnection of utilities	1	Job	\$ 172,480.00	No	\$172,480.00
Construction Management Costs	Monitoring site; inspections by Engineer of Record; photo diary, field inspection reports	1	Job	\$ 12,320.00	No	\$12,320.00
Handicap Ramp/Wheelchair Lift (Must have Doctor's Note)	Physician certified requirement for access.	1	Job	\$ 10,000.00	No	\$10,000.00
Attorney Fees	Legal searches and deed restriction	1	Job	\$ 5,000.00	No	\$5,000.00
Grand Total						\$319,720.00

Historic Review

Has the ground at the project location been disturbed other than by agriculture?

No

To your knowledge, have Indian or historic artifacts been found on or adjacent to the project area?

No

i.e. arrowheads, old bottles, square nails, etc.

What is the approximate size of the project area (acres)?

0.08 Acres

Is there a building 50 years old or older within or near the project area?

Yes

Year of Construction:

1956



Grant Application Worksheet #1 - 420 W GILBERT ST

Introduction

General

Category:

Site Name:

Used to help identify the worksheet/location. Ex: "Old City Hall Building". Use property address when possible.

Location

Location:

Address:

City:

State:

Zip Code:

Latitude:

In Decimal Format

Longitude:

In Decimal Format

Legal Description:

Property Tax ID:

Flood Zone(s):

Hold the CTRL key to select multiple zones. Please Note: Any local government as defined in 44 CFR 201.2 developing a mitigation project for FEMA funding for disasters declared post November 1, 2004 must have an approved mitigation plan in place which complies with all applicable 44 CFR 201 requirements.

Structure Identification

Severe Repetitive Loss ID#: N/A

Repetitive Loss ID#: 189894

Flood Insurance Policy #: 48012671112022

Tax Map ID#: 08V002 00 00020

Property Located in SFHA? Yes

Have any insurance proceeds been received on this site, or are you anticipating any insurance proceeds? Yes

Description	Amount	Status
Damages from Nor'easter 11/13/2009	\$ 83,249.33	Received
Damages from Hurricane Isabel	\$ 54,073.15	Received

Building Owners

Note that to copy from the worksheet address, simply press Save after entering the worksheet address.

First Name	Last Name	Address	City	State	Zip
Emanuel	Lee, Jr.	420 W GILBERT ST	Hampton	VA	23669

Contact Information:

eg.lee5531@gmail.com
(757)553-2877

Email, Phone Numbers, Fax Number, etc.

Building Information

General Information

Building Type:	1 Story Structure (no basement)
Building Use:	Owner Occupied
Construction Type:	Wood Frame Non-Engineered
Foundation Type:	Crawl Space
Describe any sub-floor Utilities (if any):	N/A
Year Constructed:	1955
Are there accessory or out buildings on the property?	No
Number of stories above grade:	1 stories

Size and Use

Total square footage of main structure:	1957 feet ²
Living area square footage:	1957 feet ²
Square Footage of Porches:	0 feet ²
Square Footage of Decks:	0 feet ²
Square Footage of Attached Garage:	350 feet ²
Square Footage of Basement:	0 feet ²
Year addition(s) were added to the structure:	N/A

Building Value

Estimated replacement value: \$

Use RS Means or another documentable source.

Replacement Value Source:

Please attach supporting documentation.

Value per foot²: \$

Floodplain Information

Base Flood Elevation (BFE):

Design Flood Elevation (DFE):

If there is a freeboard requirement.

First Floor Elevation (FFE):

Lowest Horizontal Adjacent Member if a VE Zone House.

Lowest Adjacent Grade:

Total Feet First Floor is Being Raised:

Flood Zone:

Use data from flood insurance study. If Coastal A and V Zone, select V.

10-year Stillwater Elevation:

50-year Stillwater Elevation:

100-year Stillwater Elevation:

500-year Stillwater Elevation:

Is the property considered to be substantially damaged by the locality (50% or more of the value of the structure is damaged as a result of a flood), with a supporting letter?

No

Damage History

Use the below table to describe past damages on this location.

Date - date of the disaster;

Storm Frequency - Example: 10 year flood; 5 year hurricane;

Damages - Brief description of damages;

As applicable to this property, describe damage from all flood events identified in the primary project application. Please create separate line items for Structure Damages and Content Damages.

Date	Event Level	Water Depth	Damage	Total Costs	
Nov 13, 2009	<input type="text"/>	<input type="text"/>	Nor'easter - flood damages	\$ 83,249.33	
Sep 18, 2003	<input type="text"/>	<input type="text"/>	Hurricane Isabel - flood damages	\$ 54,073.15	

Costs

Cost Line Items

Select One

In this section, provide the details of all costs of the project. As this information is used for the Benefit-Cost Analysis, reasonable cost estimates are essential. As project administrative costs are calculated on a sliding scale, do not include this in the budget. List all items and costs in line item fashion.

- For Labor, include equipment costs -- please indicate all "soft" or in-kind matches.
- For Fees Paid, include any other costs associated with the project.
- Do not include indirect costs in project management costs.

Type	Description	Qty	Unit	Price	Pre-Award	Total
Engineering Designs	Site surveys, geotechnical sampling and soil studies, engineering drawings, site inspections	1	Bundle	\$ 40,000.00	No	\$40,000.00
Temporary Relocation	Assistance of 1500/month for temporary relocation for project period of 3 months.	1	Bundle	\$ 4,500.00	No	\$4,500.00
Elevation/Lifting	Disconnection of utilities, preparation of structure, placement of beams, lifting and lowering structure; placement and reinforcement of cribbing	1	Job	\$ 83,610.00	No	\$83,610.00
Foundation	Build new foundation; framing/construction of subfloor; insulation; construction of ingress/egress structures; reconnection of utilities	1	Job	\$ 195,090.00	No	\$195,090.00
Construction Management Costs	Monitoring site; inspections by Engineer of Record; photo diary, field inspection reports	1	Job	\$ 13,935.00	No	\$13,935.00
Handicap Ramp/Wheelchair Lift (Must have Doctor's Note)	Modified access	1	Job	\$ 10,000.00	No	\$10,000.00
Attorney Fees	Legal searches and deed restriction.	1	Job	\$ 5,000.00	No	\$5,000.00
Grand Total						\$352,135.00

Historic Review

Has the ground at the project location been disturbed other than by agriculture?

No

To your knowledge, have Indian or historic artifacts been found on or adjacent to the project area?

No

i.e. arrowheads, old bottles, square nails, etc.

What is the approximate size of the project area (acres)?

0.09 Acres

Is there a building 50 years old or older within or near the project area?

Yes

Year of Construction:

1955



Grant Application Worksheet #1 - 424 W GILBERT ST

Introduction

General

Category:

Site Name:

Used to help identify the worksheet/location. Ex: "Old City Hall Building". Use property address when possible.

Location

Location:

Address:

City:

State:

Zip Code:

Latitude:

In Decimal Format

Longitude:

In Decimal Format

Legal Description:

Property Tax ID:

Flood Zone(s):

Hold the CTRL key to select multiple zones. Please Note: Any local government as defined in 44 CFR 201.2 developing a mitigation project for FEMA funding for disasters declared post November 1, 2004 must have an approved mitigation plan in place which complies with all applicable 44 CFR 201 requirements.

Structure Identification

Severe Repetitive Loss ID#: N/A

Repetitive Loss ID#: 125401

Flood Insurance Policy #: 0746RA6158

Tax Map ID#: 08V002 02 00021

Property Located in SFHA? Yes

Have any insurance proceeds been received on this site, or are you anticipating any insurance proceeds? Yes

Description	Amount	Status
Damages from Nor'easter - 11/12/2009	\$ 56,786.19	Received
Damages from Hurricane Isabel - 9/18/2003	\$ 59,530.48	Received

Building Owners

Note that to copy from the worksheet address, simply press Save after entering the worksheet address.

First Name	Last Name	Address	City	State	Zip
John	Muir, Jr.	424 W GILBERT ST	Hampton	VA	23669

Contact Information:

dreghorn_2@yahoo.com
(757)869-9743

Email, Phone Numbers, Fax Number, etc.

Building Information

General Information

Building Type:	1 Story Structure (no basement)
Building Use:	Owner Occupied
Construction Type:	Wood Frame Non-Engineered
Foundation Type:	Crawl Space
Describe any sub-floor Utilities (if any):	N/A
Year Constructed:	1955
Are there accessory or out buildings on the property?	Yes - Detached
Please describe (location, type of structure, age, value):	Not a part of the project
NFIP Policy Number (if insured):	N/A
NFIP RL Number (if insured):	N/A
Number of stories above grade:	1 stories

Size and Use

Total square footage of main structure:	1587 feet ²
Living area square footage:	1587 feet ²
Square Footage of Porches:	0 feet ²
Square Footage of Decks:	350 feet ²

Square Footage of Attached Garage:

278 feet²

Square Footage of Basement:

0 feet²

Year addition(s) were added to the structure:

N/A

Building Value

Estimated replacement value: \$ 158,700.00

Use RS Means or another documentable source.

Replacement Value Source:

Based on FEMA default value of \$100 per Sqft

Please attach supporting documentation.

Value per foot²:

\$ 158,710.32

Floodplain Information

Base Flood Elevation (BFE):

9

Design Flood Elevation (DFE):

12

If there is a freeboard requirement.

First Floor Elevation (FFE):

6.3

Lowest Horizontal Adjacent Member if a VE Zone House.

Lowest Adjacent Grade:

4.2

Total Feet First Floor is Being Raised:

5.7

Flood Zone:

Coastal A Zone

Use data from flood insurance study. If Coastal A and V Zone, select V.

10-year Stillwater Elevation:

5.5

50-year Stillwater Elevation:

7.2

100-year Stillwater Elevation:

500-year Stillwater Elevation:

Is the property considered to be substantially damaged by the locality (50% or more of the value of the structure is damaged as a result of a flood), with a supporting letter?

Damage History

Use the below table to describe past damages on this location.

Date - date of the disaster;

Storm Frequency - Example: 10 year flood; 5 year hurricane;

Damages - Brief description of damages;

As applicable to this property, describe damage from all flood events identified in the primary project application. Please create separate line items for Structure Damages and Content Damages.

Date	Event Level	Water Depth	Damage	Total Costs	
Nov 12, 2009	<input type="text"/>	<input type="text"/>	Nor'easter - damages from flooding	\$ 59,786.19	
Sep 18, 2003	<input type="text"/>	<input type="text"/>	Hurricane Isabel - damages from flooding	\$ 59,530.48	

Costs

Cost Line Items

Select One

In this section, provide the details of all costs of the project. As this information is used for the Benefit-Cost Analysis, reasonable cost estimates are essential. As project administrative costs are calculated on a sliding scale, do not include this in the budget. List all items and costs in line item fashion.

- For Labor, include equipment costs -- please indicate all "soft" or in-kind matches.
- For Fees Paid, include any other costs associated with the project.
- Do not include indirect costs in project management costs.

Type	Description	Qty	Unit	Price	Pre-Award	Total
Engineering Designs	Site surveys, geotechnical sampling and soil studies, engineering drawings, site inspections	1	Bundle	\$ 40,000.00	No	\$40,000.00
Temporary Relocation	Assistance of \$1500/month for temporary relocation for project period of 3 months.	1	Bundle	\$ 4,500.00	No	\$4,500.00
Elevation/Lifting	Disconnection of utilities, preparation of structure, placement of beams, lifting and lowering structure; placement and reinforcement of cribbing	1	Job	\$ 88,320.00	No	\$88,320.00
Foundation	Build new foundation; framing/construction of subfloor; insulation; construction of ingress/egress structures; reconnection of utilities	1	Job	\$ 206,080.00	No	\$206,080.00
Construction Management Costs	Monitoring site; inspections by Engineer of Record; photo diary, field inspection reports	1	Job	\$ 14,720.00	No	\$14,720.00
Pre-Award Elevation Certificate	Needed to run BCA	1	Each	\$ 500.00	Yes	\$500.00
Handicap Ramp/Wheelchair Lift (Must have Doctor's Note)	Modified access.	1	Job	\$ 10,000.00	No	\$10,000.00
Attorney Fees	Legal searches and deed restriction.	1	Job	\$ 5,000.00	No	\$5,000.00
Grand Total						\$369,120.00

Historic Review

Has the ground at the project location been disturbed other than by agriculture?

No

To your knowledge, have Indian or historic artifacts been found on or adjacent to the project area?

No

i.e. arrowheads, old bottles, square nails, etc.

What is the approximate size of the project area (acres)?

0.08 Acres

Is there a building 50 years old or older within or near the project area?

Yes

Year of Construction:

1955



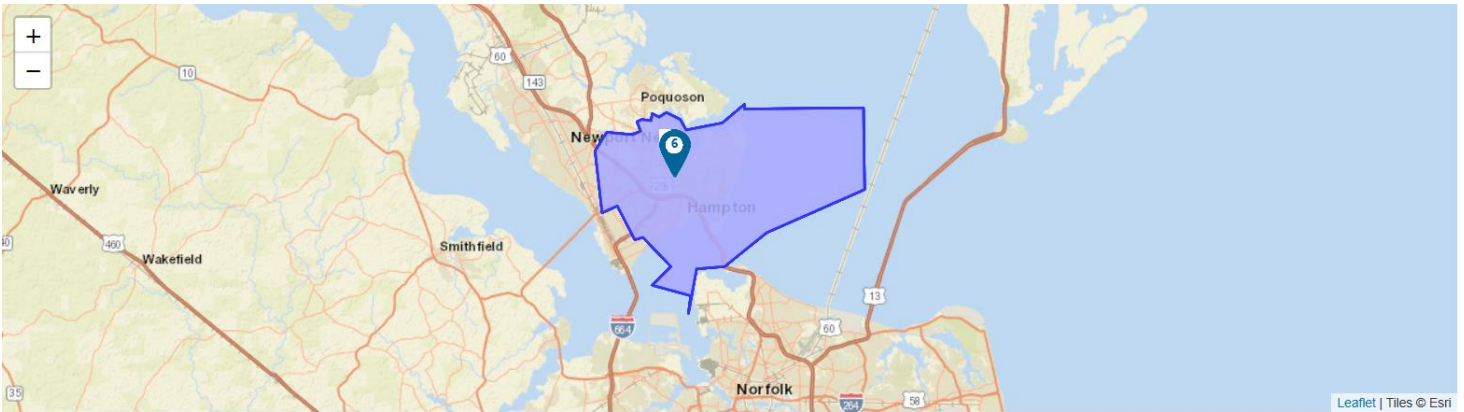
FEMA

Benefit-Cost Calculator

V.6.0 (Build 20220729.1959 | Release Notes)





Benefit-Cost Analysis

Project Name: W Gilbert St Elevation Project



Map Marker ^a	Mitigation Title	Property Type	Hazard	Benefits (B)	Costs (C)	BCR (B/C)
1	Elevation @ 412 W Gilbert St, Hampton, Virginia, 23669		Coastal A Flood	\$ 936,173	\$ 414,567	2.26
2	Elevation @ 413 W Gilbert St, Hampton, Virginia, 23669		Coastal A Flood	\$ 946,355	\$ 397,725	2.38
3	Elevation @ 419 W Gilbert St, Hampton, Virginia, 23669		Coastal A Flood	\$ 997,679	\$ 342,860	2.91
4	Elevation @ 420 W Gilbert St, Hampton, Virginia, 23669		Coastal A Flood	\$ 1,504,129	\$ 370,005	4.07
5	Elevation @ 417 W Gilbert St, Hampton, Virginia, 23669		Coastal A Flood	\$ 1,217,693	\$ 338,950	3.59
6	Elevation @ 418 W Gilbert St, Hampton, Virginia, 23669		Coastal A Flood	\$ 746,611	\$ 348,725	2.14
7	Elevation @ 424 W Gilbert St, Hampton, Virginia, 23669		Coastal A Flood	\$ 1,351,995	\$ 388,060	3.48
TOTAL (SELECTED)				\$ 7,700,635	\$ 2,600,892	2.96
TOTAL				\$ 7,700,635	\$ 2,600,892	2.96

Map Marker	Mitigation Title	Property Type	Hazard	Benefits (B)	Costs (C)	BCR (B/C)
1	Elevation @ 412 W Gilbert St, Hampton, Virginia, 23669		Coastal A Flood	\$ 936,173	\$ 414,567	2.26
2	Elevation @ 413 W Gilbert St, Hampton, Virginia, 23669		Coastal A Flood	\$ 946,355	\$ 397,725	2.38
3	Elevation @ 419 W Gilbert St, Hampton, Virginia, 23669		Coastal A Flood	\$ 997,679	\$ 342,860	2.91

Map Marker	Mitigation Title	Property Type	Hazard	Benefits (B)	Costs (C)	BCR (B/C)
4	Elevation @ 420 W Gilbert St, Hampton, Virginia, 23669		Coastal A Flood	\$ 1,504,129	\$ 370,005	4.07
5	Elevation @ 417 W Gilbert St, Hampton, Virginia, 23669		Coastal A Flood	\$ 1,217,693	\$ 338,950	3.59
6	Elevation @ 418 W Gilbert St, Hampton, Virginia, 23669		Coastal A Flood	\$ 746,611	\$ 348,725	2.14
7	Elevation @ 424 W Gilbert St, Hampton, Virginia, 23669		Coastal A Flood	\$ 1,351,995	\$ 388,060	3.48
Total (Selected)				\$ 7,700,635	\$ 2,600,892	2.96
Total				\$ 7,700,635	\$ 2,600,892	2.96

Property Configuration

Property Title: Elevation @ 412 W Gilbert St, Hampton, Virginia, 23669

Property Location: 23669, Hampton City, Virginia

Property Coordinates: 37.05211099565594, -76.35644700208513

Hazard Type: Coastal A Flood

Mitigation Action Type: Elevation

Property Type: Residential Building

Analysis Method Type: Modeled Damages

Cost Estimation

Elevation @ 412 W Gilbert St, Hampton, Virginia, 23669

Project Useful Life (years): 30

Project Cost: \$414,567

Number of Maintenance Years: 30 Use Default: Yes

Annual Maintenance Cost: \$0

Comments

Project Useful Life:

Using FEMA Project Useful Life Table - value for Elevation Project.

Hazard Probabilities Parameters - Flood

Elevation @ 412 W Gilbert St, Hampton, Virginia, 23669

Lowest Floor Elevation of the Property (ft): 6.3

Ground Surface Elevation (ft): 4.3

Base Flood Elevation (ft): 9

Feet to Raise First Floor: 5.7

Additional Projected Sea Level Rise above BFE (ft): 1.5

Use Default Recurrence Intervals: Use Default: Yes

Comments

Lowest Floor Elevation:

Elevation certificate reflects Diagram 8; however, home is split-level with den section of home on slab as verified by homeowner and site visit by the city.

Stillwater Elevation

Elevation @ 412 W Gilbert St, Hampton, Virginia, 23669

Before Mitigation	
Recurrence Interval (years)	Stillwater Elevation (ft)
10	5.5
50	7.2
100	7.8
500	9.4

After Mitigation	
Recurrence Interval (years)	Stillwater Elevation (ft)
10	5.5
50	7.2
100	7.8
500	9.4

Building Information

Elevation @ 412 W Gilbert St, Hampton, Virginia, 23669

Building is elevated on an open foundation: No

Obstruction below the lowest horizontal structural member: No

Building Type: Split Level

Foundation Type:

Building Has Basement: No

NFIP: Yes

Standard Benefits - Building

Elevation @ 412 W Gilbert St, Hampton, Virginia, 23669

Depth Damage Curve: Expert Panel - WALL (2FT) Use Default: Yes

Building Size (sq.ft): 1,611

Building Replacement Value (\$/sq.ft): \$100 Use Default: Yes

Demolition Threshold (%): 50.00% Use Default: Yes

Expected Annual Losses due to Building Damages before Mitigation: \$53,639

Expected Annual Losses due to Building Damages after Mitigation: \$341

Expected Annual Benefits - Building: \$53,298

Depth Damage Curve - Building

Elevation @ 412 W Gilbert St, Hampton, Virginia, 23669

Flood Depth (ft)	Before Mitigation				After Mitigation			
	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)
-2	2	4,022	800	0	0	0	0	0
-1	10	17,385	1,275	0	0	0	0	0
0	35	58,849.83	2,464.83	0	0	0	0	0
1	75	167,709.32	5,759.32	850	0	0	0	0
2	100	168,232.9	6,282.9	850	0	0	0	0
3	100	168,232.9	6,282.9	850	0	0	0	0
4	100	168,232.9	6,282.9	850	0	0	0	0
5	100	168,232.9	6,282.9	850	0	0	0	0
6	100	168,232.9	6,282.9	850	35	58,849.83	2,464.83	0
7	100	168,232.9	6,282.9	850	75	167,709.32	5,759.32	850
8	100	168,232.9	6,282.9	850	100	168,232.9	6,282.9	850
9	100	168,232.9	6,282.9	850	100	168,232.9	6,282.9	850
10	100	168,232.9	6,282.9	850	100	168,232.9	6,282.9	850
11	100	168,232.9	6,282.9	850	100	168,232.9	6,282.9	850
12	100	168,232.9	6,282.9	850	100	168,232.9	6,282.9	850
13	100	168,232.9	6,282.9	850	100	168,232.9	6,282.9	850
14	100	168,232.9	6,282.9	850	100	168,232.9	6,282.9	850
15	100	168,232.9	6,282.9	850	100	168,232.9	6,282.9	850

	Before Mitigation				After Mitigation			
Flood Depth (ft)	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)
16	100	168,232.9	6,282.9	850	100	168,232.9	6,282.9	850

Standard Benefits - Contents

Elevation @ 412 W Gilbert St, Hampton, Virginia, 23669

Contents Value in Dollars: \$0 Use Default: Yes

Utilities Elevated: Yes

Expected Annual Losses due to Content Damages before Mitigation: \$18,599

Expected Annual Losses due to Content Damages after Mitigation: \$171

Expected Annual Benefits - Content: \$18,429

Depth Damage Curve - Contents

Elevation @ 412 W Gilbert St, Hampton, Virginia, 23669

	Before Mitigation		After Mitigation	
Flood Depth (ft)	Percent (%)	Damage Value (\$)	Percent (%)	Damage Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	20	16,110	0	0
1	75	60,412.5	0	0
2	100	80,550	0	0
3	100	80,550	0	0
4	100	80,550	0	0
5	100	80,550	0	0
6	100	80,550	20	16,110
7	100	80,550	75	60,412.5
8	100	80,550	100	80,550
9	100	80,550	100	80,550
10	100	80,550	100	80,550
11	100	80,550	100	80,550
12	100	80,550	100	80,550
13	100	80,550	100	80,550

Flood Depth (ft)	Before Mitigation		After Mitigation	
	Percent (%)	Damage Value (\$)	Percent (%)	Damage Value (\$)
14	100	80,550	100	80,550
15	100	80,550	100	80,550
16	100	80,550	100	80,550

Standard Benefits - Displacement

Elevation @ 412 W Gilbert St, Hampton, Virginia, 23669

Lodging Per Diem: \$96 Use Default: Yes

Meals Per Diem: \$59 Use Default: Yes

Population Affected: 2

Total Residential Displacement Cost: \$200

Expected Annual Losses due to Displacement Damages before mitigation: \$1,054

Expected Annual Losses due to Displacement Damages after Mitigation: \$5

Expected Annual Losses - Displacement: \$1,049

Depth Damage Curve - Displacement

Elevation @ 412 W Gilbert St, Hampton, Virginia, 23669

Flood Depth (ft)	Before Mitigation		After Mitigation	
	Days	Damage Value (\$)	Days	Damage Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	120	24,000	0	0
1	540	108,000	0	0
2	720	144,000	0	0
3	720	144,000	0	0
4	720	144,000	0	0
5	720	144,000	0	0
6	720	144,000	120	24,000
7	720	144,000	540	108,000
8	720	144,000	720	144,000
9	720	144,000	720	144,000
10	720	144,000	720	144,000

Flood Depth (ft)	Before Mitigation		After Mitigation	
	Days	Damage Value (\$)	Days	Damage Value (\$)
11	720	144,000	720	144,000
12	720	144,000	720	144,000
13	720	144,000	720	144,000
14	720	144,000	720	144,000
15	720	144,000	720	144,000
16	720	144,000	720	144,000

Additional Benefits - Street Maintenance

Elevation @ 412 W Gilbert St, Hampton, Virginia, 23669

Total Annual Street Maintenance Budget: \$0

Total Number of Street Miles Maintained: 0

Street Miles that will not require future maintenance: 0

Expected Annual Benefits - Street Maintenance: \$0

Standard Benefits - Volunteer Costs

Elevation @ 412 W Gilbert St, Hampton, Virginia, 23669

Number of Volunteers (volunteers/event): 0

Number of Days of Lodging: 0

Expected Annual Volunteer Benefits: \$0

Additional Benefits - Social

Elevation @ 412 W Gilbert St, Hampton, Virginia, 23669

Number of Workers: 0

Expected Annual Social Benefits: \$4,886

Benefits-Costs Summary

Elevation @ 412 W Gilbert St, Hampton, Virginia, 23669

Total Standard Mitigation Benefits: \$931,287

Total Social Benefits: \$4,886

Total Mitigation Project Benefits: \$936,173

Total Mitigation Project Cost: \$414,567

Benefit Cost Ratio - Standard: 2.25

Benefit Cost Ratio - Standard + Social: 2.26

Property Configuration

Property Title: Elevation @ 413 W Gilbert St, Hampton, Virginia, 23669

Property Location:23669, Hampton City, Virginia

Property Coordinates: 37.05172098570118, -76.35678898373469

Hazard Type: Coastal A Flood

Mitigation Action Type: Elevation

Property Type: Residential Building

Analysis Method Type: Modeled Damages

Cost Estimation

Elevation @ 413 W Gilbert St, Hampton, Virginia, 23669

Project Useful Life (years): 30

Project Cost: \$397,725

Number of Maintenance Years: 30 Use Default: Yes

Annual Maintenance Cost: \$0

Comments

Project Useful Life:

Using FEMA Project Useful Life Table - value for Elevation Project.

Hazard Probabilities Parameters - Flood

Elevation @ 413 W Gilbert St, Hampton, Virginia, 23669

Lowest Floor Elevation of the Property (ft): 5.6

Ground Surface Elevation (ft): 4.3

Base Flood Elevation (ft): 8

Feet to Raise First Floor: 5.4

Additional Projected Sea Level Rise above BFE (ft): 1.5

Use Default Recurrence Intervals: Use Default: Yes

Stillwater Elevation

Elevation @ 413 W Gilbert St, Hampton, Virginia, 23669

Before Mitigation	
Recurrence Interval (years)	Stillwater Elevation (ft)
10	5.5
50	7.2
100	7.8

Before Mitigation	
Recurrence Interval (years)	Stillwater Elevation (ft)
500	9.4

After Mitigation	
Recurrence Interval (years)	Stillwater Elevation (ft)
10	5.5
50	7.2
100	7.8
500	9.4

Building Information

Elevation @ 413 W Gilbert St, Hampton, Virginia, 23669

Building is elevated on an open foundation: No

Obstruction below the lowest horizontal structural member: No

Building Type: One Story

Foundation Type:

Building Has Basement: No

NFIP: Yes

Standard Benefits - Building

Elevation @ 413 W Gilbert St, Hampton, Virginia, 23669

Depth Damage Curve: Expert Panel - WALL (2FT) Use Default: Yes

Building Size (sq.ft): 1,541

Building Replacement Value (\$/sq.ft): \$100 Use Default: Yes

Demolition Threshold (%): 50.00% Use Default: Yes

Expected Annual Losses due to Building Damages before Mitigation: \$54,266

Expected Annual Losses due to Building Damages after Mitigation: \$326

Expected Annual Benefits - Building: \$53,939

Depth Damage Curve - Building

Elevation @ 413 W Gilbert St, Hampton, Virginia, 23669

Flood Depth (ft)	Before Mitigation				After Mitigation			
	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)
-2	2	3,882	800	0	0	0	0	0
-1	10	16,685	1,275	0	0	0	0	0
0	35	56,292.73	2,357.73	0	0	0	0	0
1	75	160,459.07	5,509.07	850	0	0	0	0
2	100	160,959.9	6,009.9	850	0	0	0	0
3	100	160,959.9	6,009.9	850	0	0	0	0
4	100	160,959.9	6,009.9	850	0	0	0	0
5	100	160,959.9	6,009.9	850	0	0	0	0
6	100	160,959.9	6,009.9	850	35	56,292.73	2,357.73	0
7	100	160,959.9	6,009.9	850	75	160,459.07	5,509.07	850
8	100	160,959.9	6,009.9	850	100	160,959.9	6,009.9	850
9	100	160,959.9	6,009.9	850	100	160,959.9	6,009.9	850
10	100	160,959.9	6,009.9	850	100	160,959.9	6,009.9	850
11	100	160,959.9	6,009.9	850	100	160,959.9	6,009.9	850
12	100	160,959.9	6,009.9	850	100	160,959.9	6,009.9	850
13	100	160,959.9	6,009.9	850	100	160,959.9	6,009.9	850
14	100	160,959.9	6,009.9	850	100	160,959.9	6,009.9	850
15	100	160,959.9	6,009.9	850	100	160,959.9	6,009.9	850
16	100	160,959.9	6,009.9	850	100	160,959.9	6,009.9	850

Standard Benefits - Contents

Elevation @ 413 W Gilbert St, Hampton, Virginia, 23669

Contents Value in Dollars: \$0 Use Default: Yes

Utilities Elevated: Yes

Expected Annual Losses due to Content Damages before Mitigation: \$18,645

Expected Annual Losses due to Content Damages after Mitigation: \$163

Expected Annual Benefits - Content: \$18,481

Depth Damage Curve - Contents

Elevation @ 413 W Gilbert St, Hampton, Virginia, 23669

Flood Depth (ft)	Before Mitigation		After Mitigation	
	Percent (%)	Damage Value (\$)	Percent (%)	Damage Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	20	15,410	0	0
1	75	57,787.5	0	0
2	100	77,050	0	0
3	100	77,050	0	0
4	100	77,050	0	0
5	100	77,050	0	0
6	100	77,050	20	15,410
7	100	77,050	75	57,787.5
8	100	77,050	100	77,050
9	100	77,050	100	77,050
10	100	77,050	100	77,050
11	100	77,050	100	77,050
12	100	77,050	100	77,050
13	100	77,050	100	77,050
14	100	77,050	100	77,050
15	100	77,050	100	77,050
16	100	77,050	100	77,050

Standard Benefits - Displacement

Elevation @ 413 W Gilbert St, Hampton, Virginia, 23669

Lodging Per Diem: \$96 Use Default: Yes

Meals Per Diem: \$59 Use Default: Yes

Population Affected: 2

Total Residential Displacement Cost: \$200

Expected Annual Losses due to Displacement Damages before mitigation: \$1,101

Expected Annual Losses due to Displacement Damages after Mitigation: \$5

Expected Annual Losses - Displacement: \$1,096

Depth Damage Curve - Displacement

Elevation @ 413 W Gilbert St, Hampton, Virginia, 23669

Flood Depth (ft)	Before Mitigation		After Mitigation	
	Days	Damage Value (\$)	Days	Damage Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	120	24,000	0	0
1	540	108,000	0	0
2	720	144,000	0	0
3	720	144,000	0	0
4	720	144,000	0	0
5	720	144,000	0	0
6	720	144,000	120	24,000
7	720	144,000	540	108,000
8	720	144,000	720	144,000
9	720	144,000	720	144,000
10	720	144,000	720	144,000
11	720	144,000	720	144,000
12	720	144,000	720	144,000
13	720	144,000	720	144,000
14	720	144,000	720	144,000
15	720	144,000	720	144,000
16	720	144,000	720	144,000

Additional Benefits - Street Maintenance

Elevation @ 413 W Gilbert St, Hampton, Virginia, 23669

Total Annual Street Maintenance Budget: \$0

Total Number of Street Miles Maintained: 0

Street Miles that will not require future maintenance: 0

Expected Annual Benefits - Street Maintenance: \$0

Standard Benefits - Volunteer Costs

Elevation @ 413 W Gilbert St, Hampton, Virginia, 23669

Number of Volunteers (volunteers/event): 0

Number of Days of Lodging: 0

Expected Annual Volunteer Benefits: \$0

Additional Benefits - Social

Elevation @ 413 W Gilbert St, Hampton, Virginia, 23669

Number of Workers: 0

Expected Annual Social Benefits: \$4,886

Benefits-Costs Summary

Elevation @ 413 W Gilbert St, Hampton, Virginia, 23669

Total Standard Mitigation Benefits: \$941,469

Total Social Benefits: \$4,886

Total Mitigation Project Benefits: \$946,355

Total Mitigation Project Cost: \$397,725

Benefit Cost Ratio - Standard: 2.37

Benefit Cost Ratio - Standard + Social: 2.38

Property Configuration

Property Title: Elevation @ 419 W Gilbert St, Hampton, Virginia, 23669

Property Location: 23669, Hampton City, Virginia

Property Coordinates: 37.05194599789192, -76.35763396339381

Hazard Type: Coastal A Flood

Mitigation Action Type: Elevation

Property Type: Residential Building

Analysis Method Type: Modeled Damages

Cost Estimation

Elevation @ 419 W Gilbert St, Hampton, Virginia, 23669

Project Useful Life (years): 30

Project Cost: \$342,860

Number of Maintenance Years: 30 Use Default: Yes

Annual Maintenance Cost: \$0

Comments

Project Useful Life:

Using FEMA Project Useful Life Table - value for Elevation Project.

Hazard Probabilities Parameters - Flood

Elevation @ 419 W Gilbert St, Hampton, Virginia, 23669

Lowest Floor Elevation of the Property (ft): 5.9

Ground Surface Elevation (ft): 3.5

Base Flood Elevation (ft): 8

Feet to Raise First Floor: 5.1

Additional Projected Sea Level Rise above BFE (ft): 1.5

Use Default Recurrence Intervals: Use Default: Yes

Stillwater Elevation

Elevation @ 419 W Gilbert St, Hampton, Virginia, 23669

Before Mitigation	
Recurrence Interval (years)	Stillwater Elevation (ft)
10	5.5
50	7.2
100	7.8
500	9.4

After Mitigation	
Recurrence Interval (years)	Stillwater Elevation (ft)
10	5.5
50	7.2
100	7.8
500	9.4

Building Information

Elevation @ 419 W Gilbert St, Hampton, Virginia, 23669

Building is elevated on an open foundation: No

Obstruction below the lowest horizontal structural member: No

Building Type: One Story

Foundation Type:

Building Has Basement: No

NFIP: Yes

Standard Benefits - Building

Elevation @ 419 W Gilbert St, Hampton, Virginia, 23669

Depth Damage Curve: Expert Panel - WALL (3FT) Use Default: Yes

Building Size (sq.ft): 1,253

Building Replacement Value (\$/sq.ft): \$100 Use Default: Yes

Demolition Threshold (%): 50.00% Use Default: Yes

Expected Annual Losses due to Building Damages before Mitigation: \$54,782

Expected Annual Losses due to Building Damages after Mitigation: \$265

Expected Annual Benefits - Building: \$54,516

Depth Damage Curve - Building

Elevation @ 419 W Gilbert St, Hampton, Virginia, 23669

	Before Mitigation				After Mitigation			
Flood Depth (ft)	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)
-2	2	3,306	800	0	0	0	0	0
-1	30	39,340	1,750	0	0	0	0	0
0	75	130,629.47	4,479.47	850	0	0	0	0
1	100	131,036.7	4,886.7	850	0	0	0	0
2	100	131,036.7	4,886.7	850	0	0	0	0
3	100	131,036.7	4,886.7	850	0	0	0	0
4	100	131,036.7	4,886.7	850	0	0	0	0
5	100	131,036.7	4,886.7	850	0	0	0	0
6	100	131,036.7	4,886.7	850	75	130,629.47	4,479.47	850
7	100	131,036.7	4,886.7	850	100	131,036.7	4,886.7	850
8	100	131,036.7	4,886.7	850	100	131,036.7	4,886.7	850
9	100	131,036.7	4,886.7	850	100	131,036.7	4,886.7	850
10	100	131,036.7	4,886.7	850	100	131,036.7	4,886.7	850
11	100	131,036.7	4,886.7	850	100	131,036.7	4,886.7	850
12	100	131,036.7	4,886.7	850	100	131,036.7	4,886.7	850
13	100	131,036.7	4,886.7	850	100	131,036.7	4,886.7	850
14	100	131,036.7	4,886.7	850	100	131,036.7	4,886.7	850
15	100	131,036.7	4,886.7	850	100	131,036.7	4,886.7	850
16	100	131,036.7	4,886.7	850	100	131,036.7	4,886.7	850

Standard Benefits - Contents

Elevation @ 419 W Gilbert St, Hampton, Virginia, 23669

Contents Value in Dollars: \$0 Use Default: Yes

Utilities Elevated: Yes

Expected Annual Losses due to Content Damages before Mitigation: \$21,199

Expected Annual Losses due to Content Damages after Mitigation: \$133

Expected Annual Benefits - Content: \$21,066

Depth Damage Curve - Contents

Elevation @ 419 W Gilbert St, Hampton, Virginia, 23669

Flood Depth (ft)	Before Mitigation		After Mitigation	
	Percent (%)	Damage Value (\$)	Percent (%)	Damage Value (\$)
-2	0	0	0	0
-1	10	6,265	0	0
0	75	46,987.5	0	0
1	100	62,650	0	0
2	100	62,650	0	0
3	100	62,650	0	0
4	100	62,650	0	0
5	100	62,650	0	0
6	100	62,650	75	46,987.5
7	100	62,650	100	62,650
8	100	62,650	100	62,650
9	100	62,650	100	62,650
10	100	62,650	100	62,650
11	100	62,650	100	62,650
12	100	62,650	100	62,650
13	100	62,650	100	62,650
14	100	62,650	100	62,650
15	100	62,650	100	62,650
16	100	62,650	100	62,650

Standard Benefits - Displacement

Elevation @ 419 W Gilbert St, Hampton, Virginia, 23669

Lodging Per Diem: \$96 Use Default: Yes

Meals Per Diem: \$59 Use Default: Yes

Population Affected: 2

Total Residential Displacement Cost: \$200

Expected Annual Losses due to Displacement Damages before mitigation: \$1,656

Expected Annual Losses due to Displacement Damages after Mitigation: \$5

Expected Annual Losses - Displacement: \$1,651

Depth Damage Curve - Displacement

Elevation @ 419 W Gilbert St, Hampton, Virginia, 23669

Flood Depth (ft)	Before Mitigation		After Mitigation	
	Days	Damage Value (\$)	Days	Damage Value (\$)
-2	0	0	0	0
-1	120	24,000	0	0
0	540	108,000	0	0
1	720	144,000	0	0
2	720	144,000	0	0
3	720	144,000	0	0
4	720	144,000	0	0
5	720	144,000	0	0
6	720	144,000	540	108,000
7	720	144,000	720	144,000
8	720	144,000	720	144,000
9	720	144,000	720	144,000
10	720	144,000	720	144,000
11	720	144,000	720	144,000
12	720	144,000	720	144,000
13	720	144,000	720	144,000
14	720	144,000	720	144,000
15	720	144,000	720	144,000
16	720	144,000	720	144,000

Additional Benefits - Street Maintenance

Elevation @ 419 W Gilbert St, Hampton, Virginia, 23669

Total Annual Street Maintenance Budget: \$0

Total Number of Street Miles Maintained: 0

Street Miles that will not require future maintenance: 0

Expected Annual Benefits - Street Maintenance: \$0

Standard Benefits - Volunteer Costs

Elevation @ 419 W Gilbert St, Hampton, Virginia, 23669

Number of Volunteers (volunteers/event): 0

Number of Days of Lodging: 0

Expected Annual Volunteer Benefits: \$0

Additional Benefits - Social

Elevation @ 419 W Gilbert St, Hampton, Virginia, 23669

Number of Workers: 0

Expected Annual Social Benefits: \$4,886

Benefits-Costs Summary

Elevation @ 419 W Gilbert St, Hampton, Virginia, 23669

Total Standard Mitigation Benefits: \$992,793

Total Social Benefits: \$4,886

Total Mitigation Project Benefits: \$997,679

Total Mitigation Project Cost: \$342,860

Benefit Cost Ratio - Standard: 2.90

Benefit Cost Ratio - Standard + Social: 2.91

Property Configuration

Property Title: Elevation @ 420 W Gilbert St, Hampton, Virginia, 23669

Property Location: 23669, Hampton City, Virginia

Property Coordinates: 37.05242799923403, -76.35762901807094

Hazard Type: Coastal A Flood

Mitigation Action Type: Elevation

Property Type: Residential Building

Analysis Method Type: Modeled Damages

Cost Estimation

Elevation @ 420 W Gilbert St, Hampton, Virginia, 23669

Project Useful Life (years): 30

Project Cost: \$370,005

Number of Maintenance Years: 30 Use Default: Yes

Annual Maintenance Cost: \$0

Comments

Project Useful Life:

Using FEMA Project Useful Life Table - value for Elevation Project.

Hazard Probabilities Parameters - Flood

Elevation @ 420 W Gilbert St, Hampton, Virginia, 23669

Lowest Floor Elevation of the Property (ft): 6.5

Ground Surface Elevation (ft): 3.8

Base Flood Elevation (ft): 9

Feet to Raise First Floor: 5.6

Additional Projected Sea Level Rise above BFE (ft): 1.5

Use Default Recurrence Intervals: Use Default: Yes

Comments

Lowest Floor Elevation:

Conversion from NGVD 1929 to NAVD 1988 performed using NOAA's Vertical Datum Transformation v.4.42

Stillwater Elevation

Elevation @ 420 W Gilbert St, Hampton, Virginia, 23669

Before Mitigation	
Recurrence Interval (years)	Stillwater Elevation (ft)
10	5.5
50	7.2
100	7.8
500	9.4

After Mitigation	
Recurrence Interval (years)	Stillwater Elevation (ft)
10	5.5
50	7.2
100	7.8
500	9.4

Building Information

Elevation @ 420 W Gilbert St, Hampton, Virginia, 23669

Building is elevated on an open foundation: No

Obstruction below the lowest horizontal structural member: No

Building Type: One Story

Foundation Type:

Building Has Basement: No

NFIP: Yes

Standard Benefits - Building

Elevation @ 420 W Gilbert St, Hampton, Virginia, 23669

Depth Damage Curve: Expert Panel - WALL (3FT) Use Default: Yes

Building Size (sq.ft): 1,957

Building Replacement Value (\$/sq.ft): \$100 Use Default: Yes

Demolition Threshold (%): 50.00% Use Default: Yes

Expected Annual Losses due to Building Damages before Mitigation: \$83,760

Expected Annual Losses due to Building Damages after Mitigation: \$414

Expected Annual Benefits - Building: \$83,346

Depth Damage Curve - Building

Elevation @ 420 W Gilbert St, Hampton, Virginia, 23669

Flood Depth (ft)	Before Mitigation				After Mitigation			
	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)
-2	2	4,714	800	0	0	0	0	0
-1	30	61,038.83	2,328.83	0	0	0	0	0
0	75	203,546.27	6,996.27	850	0	0	0	0
1	100	204,182.3	7,632.29	850	0	0	0	0
2	100	204,182.3	7,632.29	850	0	0	0	0
3	100	204,182.3	7,632.29	850	0	0	0	0
4	100	204,182.3	7,632.29	850	0	0	0	0
5	100	204,182.3	7,632.29	850	0	0	0	0
6	100	204,182.3	7,632.29	850	75	203,546.27	6,996.27	850
7	100	204,182.3	7,632.29	850	100	204,182.3	7,632.29	850
8	100	204,182.3	7,632.29	850	100	204,182.3	7,632.29	850

	Before Mitigation				After Mitigation			
Flood Depth (ft)	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)
9	100	204,182.3	7,632.29	850	100	204,182.3	7,632.29	850
10	100	204,182.3	7,632.29	850	100	204,182.3	7,632.29	850
11	100	204,182.3	7,632.29	850	100	204,182.3	7,632.29	850
12	100	204,182.3	7,632.29	850	100	204,182.3	7,632.29	850
13	100	204,182.3	7,632.29	850	100	204,182.3	7,632.29	850
14	100	204,182.3	7,632.29	850	100	204,182.3	7,632.29	850
15	100	204,182.3	7,632.29	850	100	204,182.3	7,632.29	850
16	100	204,182.3	7,632.29	850	100	204,182.3	7,632.29	850

Standard Benefits - Contents

Elevation @ 420 W Gilbert St, Hampton, Virginia, 23669

Contents Value in Dollars: \$0 Use Default: Yes

Utilities Elevated: Yes

Expected Annual Losses due to Content Damages before Mitigation: \$32,313

Expected Annual Losses due to Content Damages after Mitigation: \$207

Expected Annual Benefits - Content: \$32,106

Depth Damage Curve - Contents

Elevation @ 420 W Gilbert St, Hampton, Virginia, 23669

	Before Mitigation		After Mitigation	
Flood Depth (ft)	Percent (%)	Damage Value (\$)	Percent (%)	Damage Value (\$)
-2	0	0	0	0
-1	10	9,785	0	0
0	75	73,387.5	0	0
1	100	97,850	0	0
2	100	97,850	0	0
3	100	97,850	0	0
4	100	97,850	0	0
5	100	97,850	0	0
6	100	97,850	75	73,387.5

Flood Depth (ft)	Before Mitigation		After Mitigation	
	Percent (%)	Damage Value (\$)	Percent (%)	Damage Value (\$)
7	100	97,850	100	97,850
8	100	97,850	100	97,850
9	100	97,850	100	97,850
10	100	97,850	100	97,850
11	100	97,850	100	97,850
12	100	97,850	100	97,850
13	100	97,850	100	97,850
14	100	97,850	100	97,850
15	100	97,850	100	97,850
16	100	97,850	100	97,850

Standard Benefits - Displacement

Elevation @ 420 W Gilbert St, Hampton, Virginia, 23669

Lodging Per Diem: \$96 Use Default: Yes

Meals Per Diem: \$59 Use Default: Yes

Population Affected: 2

Total Residential Displacement Cost: \$200

Expected Annual Losses due to Displacement Damages before mitigation: \$1,629

Expected Annual Losses due to Displacement Damages after Mitigation: \$5

Expected Annual Losses - Displacement: \$1,624

Depth Damage Curve - Displacement

Elevation @ 420 W Gilbert St, Hampton, Virginia, 23669

Flood Depth (ft)	Before Mitigation		After Mitigation	
	Days	Damage Value (\$)	Days	Damage Value (\$)
-2	0	0	0	0
-1	120	24,000	0	0
0	540	108,000	0	0
1	720	144,000	0	0
2	720	144,000	0	0
3	720	144,000	0	0

Flood Depth (ft)	Before Mitigation		After Mitigation	
	Days	Damage Value (\$)	Days	Damage Value (\$)
4	720	144,000	0	0
5	720	144,000	0	0
6	720	144,000	540	108,000
7	720	144,000	720	144,000
8	720	144,000	720	144,000
9	720	144,000	720	144,000
10	720	144,000	720	144,000
11	720	144,000	720	144,000
12	720	144,000	720	144,000
13	720	144,000	720	144,000
14	720	144,000	720	144,000
15	720	144,000	720	144,000
16	720	144,000	720	144,000

Additional Benefits - Street Maintenance

Elevation @ 420 W Gilbert St, Hampton, Virginia, 23669

Total Annual Street Maintenance Budget: \$0

Total Number of Street Miles Maintained: 0

Street Miles that will not require future maintenance: 0

Expected Annual Benefits - Street Maintenance: \$0

Standard Benefits - Volunteer Costs

Elevation @ 420 W Gilbert St, Hampton, Virginia, 23669

Number of Volunteers (volunteers/event): 0

Number of Days of Lodging: 0

Expected Annual Volunteer Benefits: \$0

Additional Benefits - Social

Elevation @ 420 W Gilbert St, Hampton, Virginia, 23669

Number of Workers: 0

Expected Annual Social Benefits: \$4,886

Benefits-Costs Summary

Elevation @ 420 W Gilbert St, Hampton, Virginia, 23669

Total Standard Mitigation Benefits: \$1,499,243

Total Social Benefits: \$4,886

Total Mitigation Project Benefits: \$1,504,129

Total Mitigation Project Cost: \$370,005

Benefit Cost Ratio - Standard: 4.05

Benefit Cost Ratio - Standard + Social: 4.07

Property Configuration

Property Title: Elevation @ 417 W Gilbert St, Hampton, Virginia, 23669

Property Location: 23669, Hampton City, Virginia

Property Coordinates: 37.05188598346518, -76.3573179656441

Hazard Type: Coastal A Flood

Mitigation Action Type: Elevation

Property Type: Residential Building

Analysis Method Type: Modeled Damages

Cost Estimation

Elevation @ 417 W Gilbert St, Hampton, Virginia, 23669

Project Useful Life (years): 30

Project Cost: \$338,950

Number of Maintenance Years: 30 Use Default: Yes

Annual Maintenance Cost: \$0

Comments

Project Useful Life:

Using FEMA Project Useful Life Table - value for Elevation Project.

Hazard Probabilities Parameters - Flood

Elevation @ 417 W Gilbert St, Hampton, Virginia, 23669

Lowest Floor Elevation of the Property (ft): 6.3

Ground Surface Elevation (ft): 4

Base Flood Elevation (ft): 8

Feet to Raise First Floor: 4.7

Additional Projected Sea Level Rise above BFE (ft): 1.5

Use Default Recurrence Intervals: Use Default: Yes

Stillwater Elevation

Elevation @ 417 W Gilbert St, Hampton, Virginia, 23669

Before Mitigation	
Recurrence Interval (years)	Stillwater Elevation (ft)
10	5.5
50	7.2
100	7.8
500	9.4

After Mitigation	
Recurrence Interval (years)	Stillwater Elevation (ft)
10	5.5
50	7.2
100	7.8
500	9.4

Building Information

Elevation @ 417 W Gilbert St, Hampton, Virginia, 23669

Building is elevated on an open foundation: No

Obstruction below the lowest horizontal structural member: No

Building Type: Two or More Stories

Foundation Type:

Building Has Basement: No

NFIP: No

Standard Benefits - Building

Elevation @ 417 W Gilbert St, Hampton, Virginia, 23669

Depth Damage Curve: Expert Panel - WALL (3FT) Use Default: Yes

Building Size (sq.ft): 1,996

Building Replacement Value (\$/sq.ft): \$100 Use Default: Yes

Demolition Threshold (%): 50.00% Use Default: Yes

Expected Annual Losses due to Building Damages before Mitigation: \$71,453

Expected Annual Losses due to Building Damages after Mitigation: \$423

Expected Annual Benefits - Building: \$71,030

Depth Damage Curve - Building

Elevation @ 417 W Gilbert St, Hampton, Virginia, 23669

Flood Depth (ft)	Before Mitigation				After Mitigation			
	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)
-2	2	3,992	0	0	0	0	0	0
-1	30	59,880	0	0	0	0	0	0
0	75	199,600	0	0	0	0	0	0
1	100	199,600	0	0	0	0	0	0
2	100	199,600	0	0	0	0	0	0
3	100	199,600	0	0	0	0	0	0
4	100	199,600	0	0	0	0	0	0
5	100	199,600	0	0	75	199,600	0	0
6	100	199,600	0	0	100	199,600	0	0
7	100	199,600	0	0	100	199,600	0	0
8	100	199,600	0	0	100	199,600	0	0
9	100	199,600	0	0	100	199,600	0	0
10	100	199,600	0	0	100	199,600	0	0
11	100	199,600	0	0	100	199,600	0	0
12	100	199,600	0	0	100	199,600	0	0
13	100	199,600	0	0	100	199,600	0	0
14	100	199,600	0	0	100	199,600	0	0
15	100	199,600	0	0	100	199,600	0	0
16	100	199,600	0	0	100	199,600	0	0

Standard Benefits - Contents

Elevation @ 417 W Gilbert St, Hampton, Virginia, 23669

Contents Value in Dollars: \$0 Use Default: Yes

Utilities Elevated: Yes

Expected Annual Losses due to Content Damages before Mitigation: \$25,617

Expected Annual Losses due to Content Damages after Mitigation: \$211

Expected Annual Benefits - Content: \$25,406

Depth Damage Curve - Contents

Elevation @ 417 W Gilbert St, Hampton, Virginia, 23669

Flood Depth (ft)	Before Mitigation		After Mitigation	
	Percent (%)	Damage Value (\$)	Percent (%)	Damage Value (\$)
-2	0	0	0	0
-1	10	9,980	0	0
0	75	74,850	0	0
1	100	99,800	0	0
2	100	99,800	0	0
3	100	99,800	0	0
4	100	99,800	0	0
5	100	99,800	75	74,850
6	100	99,800	100	99,800
7	100	99,800	100	99,800
8	100	99,800	100	99,800
9	100	99,800	100	99,800
10	100	99,800	100	99,800
11	100	99,800	100	99,800
12	100	99,800	100	99,800
13	100	99,800	100	99,800
14	100	99,800	100	99,800
15	100	99,800	100	99,800
16	100	99,800	100	99,800

Standard Benefits - Displacement

Elevation @ 417 W Gilbert St, Hampton, Virginia, 23669

Lodging Per Diem: \$96 Use Default: Yes

Meals Per Diem: \$59 Use Default: Yes

Population Affected: 2

Total Residential Displacement Cost: \$200

Expected Annual Losses due to Displacement Damages before mitigation: \$1,305

Expected Annual Losses due to Displacement Damages after Mitigation: \$5

Expected Annual Losses - Displacement: \$1,300

Depth Damage Curve - Displacement

Elevation @ 417 W Gilbert St, Hampton, Virginia, 23669

Flood Depth (ft)	Before Mitigation		After Mitigation	
	Days	Damage Value (\$)	Days	Damage Value (\$)
-2	0	0	0	0
-1	120	24,000	0	0
0	540	108,000	0	0
1	720	144,000	0	0
2	720	144,000	0	0
3	720	144,000	0	0
4	720	144,000	0	0
5	720	144,000	540	108,000
6	720	144,000	720	144,000
7	720	144,000	720	144,000
8	720	144,000	720	144,000
9	720	144,000	720	144,000
10	720	144,000	720	144,000
11	720	144,000	720	144,000
12	720	144,000	720	144,000
13	720	144,000	720	144,000
14	720	144,000	720	144,000
15	720	144,000	720	144,000
16	720	144,000	720	144,000

Additional Benefits - Street Maintenance

Elevation @ 417 W Gilbert St, Hampton, Virginia, 23669

Total Annual Street Maintenance Budget: \$0

Total Number of Street Miles Maintained: 0

Street Miles that will not require future maintenance: 0

Expected Annual Benefits - Street Maintenance: \$0

Standard Benefits - Volunteer Costs

Elevation @ 417 W Gilbert St, Hampton, Virginia, 23669

Number of Volunteers (volunteers/event): 0

Number of Days of Lodging: 0

Expected Annual Volunteer Benefits: \$0

Additional Benefits - Social

Elevation @ 417 W Gilbert St, Hampton, Virginia, 23669

Number of Workers: 0

Expected Annual Social Benefits: \$4,886

Benefits-Costs Summary

Elevation @ 417 W Gilbert St, Hampton, Virginia, 23669

Total Standard Mitigation Benefits: \$1,212,807

Total Social Benefits: \$4,886

Total Mitigation Project Benefits: \$1,217,693

Total Mitigation Project Cost: \$338,950

Benefit Cost Ratio - Standard: 3.58

Benefit Cost Ratio - Standard + Social: 3.59

Property Configuration

Property Title: Elevation @ 418 W Gilbert St, Hampton, Virginia, 23669

Property Location: 23669, Hampton City, Virginia

Property Coordinates: 37.05233998925068, -76.35729399340101

Hazard Type: Coastal A Flood

Mitigation Action Type: Elevation

Property Type: Residential Building

Analysis Method Type: Modeled Damages

Cost Estimation

Elevation @ 418 W Gilbert St, Hampton, Virginia, 23669

Project Useful Life (years): 30

Project Cost: \$348,725

Number of Maintenance Years: 30 Use Default: Yes

Annual Maintenance Cost: \$0

Comments

Project Useful Life:

Using FEMA Project Useful Life Table - value for Elevation Project.

Hazard Probabilities Parameters - Flood

Elevation @ 418 W Gilbert St, Hampton, Virginia, 23669

Lowest Floor Elevation of the Property (ft): 7.4

Ground Surface Elevation (ft): 4.2

Base Flood Elevation (ft): 9

Feet to Raise First Floor: 4.6

Additional Projected Sea Level Rise above BFE (ft): 1.5

Use Default Recurrence Intervals: Use Default: Yes

Stillwater Elevation

Elevation @ 418 W Gilbert St, Hampton, Virginia, 23669

Before Mitigation	
Recurrence Interval (years)	Stillwater Elevation (ft)
10	5.5
50	7.2
100	7.8
500	9.4

After Mitigation	
Recurrence Interval (years)	Stillwater Elevation (ft)
10	5.5
50	7.2
100	7.8
500	9.4

Building Information

Elevation @ 418 W Gilbert St, Hampton, Virginia, 23669

Building is elevated on an open foundation: No

Obstruction below the lowest horizontal structural member: No

Building Type: One Story

Foundation Type:

Building Has Basement: No

NFIP: Yes

Standard Benefits - Building

Elevation @ 418 W Gilbert St, Hampton, Virginia, 23669

Depth Damage Curve: Expert Panel - WALL (3FT) Use Default: Yes

Building Size (sq.ft): 1,548

Building Replacement Value (\$/sq.ft): \$100 Use Default: Yes

Demolition Threshold (%): 50.00% Use Default: Yes

Expected Annual Losses due to Building Damages before Mitigation: \$42,638

Expected Annual Losses due to Building Damages after Mitigation: \$328

Expected Annual Benefits - Building: \$42,310

Depth Damage Curve - Building

Elevation @ 418 W Gilbert St, Hampton, Virginia, 23669

	Before Mitigation				After Mitigation			
Flood Depth (ft)	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)
-2	2	3,896	800	0	0	0	0	0
-1	30	48,282.12	1,842.12	0	0	0	0	0
0	75	161,184.1	5,534.09	850	0	0	0	0
1	100	161,687.2	6,037.2	850	0	0	0	0
2	100	161,687.2	6,037.2	850	0	0	0	0
3	100	161,687.2	6,037.2	850	0	0	0	0
4	100	161,687.2	6,037.2	850	0	0	0	0
5	100	161,687.2	6,037.2	850	75	161,184.1	5,534.09	850
6	100	161,687.2	6,037.2	850	100	161,687.2	6,037.2	850
7	100	161,687.2	6,037.2	850	100	161,687.2	6,037.2	850
8	100	161,687.2	6,037.2	850	100	161,687.2	6,037.2	850
9	100	161,687.2	6,037.2	850	100	161,687.2	6,037.2	850
10	100	161,687.2	6,037.2	850	100	161,687.2	6,037.2	850
11	100	161,687.2	6,037.2	850	100	161,687.2	6,037.2	850
12	100	161,687.2	6,037.2	850	100	161,687.2	6,037.2	850
13	100	161,687.2	6,037.2	850	100	161,687.2	6,037.2	850
14	100	161,687.2	6,037.2	850	100	161,687.2	6,037.2	850
15	100	161,687.2	6,037.2	850	100	161,687.2	6,037.2	850
16	100	161,687.2	6,037.2	850	100	161,687.2	6,037.2	850

Standard Benefits - Contents

Elevation @ 418 W Gilbert St, Hampton, Virginia, 23669

Contents Value in Dollars: \$0 Use Default: Yes

Utilities Elevated: Yes

Expected Annual Losses due to Content Damages before Mitigation: \$14,916

Expected Annual Losses due to Content Damages after Mitigation: \$164

Expected Annual Benefits - Content: \$14,752

Depth Damage Curve - Contents

Elevation @ 418 W Gilbert St, Hampton, Virginia, 23669

	Before Mitigation		After Mitigation	
Flood Depth (ft)	Percent (%)	Damage Value (\$)	Percent (%)	Damage Value (\$)
-2	0	0	0	0
-1	10	7,740	0	0
0	75	58,050	0	0
1	100	77,400	0	0
2	100	77,400	0	0
3	100	77,400	0	0
4	100	77,400	0	0
5	100	77,400	75	58,050
6	100	77,400	100	77,400
7	100	77,400	100	77,400
8	100	77,400	100	77,400
9	100	77,400	100	77,400
10	100	77,400	100	77,400
11	100	77,400	100	77,400
12	100	77,400	100	77,400
13	100	77,400	100	77,400
14	100	77,400	100	77,400
15	100	77,400	100	77,400
16	100	77,400	100	77,400

Standard Benefits - Displacement

Elevation @ 418 W Gilbert St, Hampton, Virginia, 23669

Lodging Per Diem: \$96 Use Default: Yes

Meals Per Diem: \$59 Use Default: Yes

Population Affected: 2

Total Residential Displacement Cost: \$200

Expected Annual Losses due to Displacement Damages before mitigation: \$951

Expected Annual Losses due to Displacement Damages after Mitigation: \$5

Expected Annual Losses - Displacement: \$946

Depth Damage Curve - Displacement

Elevation @ 418 W Gilbert St, Hampton, Virginia, 23669

Flood Depth (ft)	Before Mitigation		After Mitigation	
	Days	Damage Value (\$)	Days	Damage Value (\$)
-2	0	0	0	0
-1	120	24,000	0	0
0	540	108,000	0	0
1	720	144,000	0	0
2	720	144,000	0	0
3	720	144,000	0	0
4	720	144,000	0	0
5	720	144,000	540	108,000
6	720	144,000	720	144,000
7	720	144,000	720	144,000
8	720	144,000	720	144,000
9	720	144,000	720	144,000
10	720	144,000	720	144,000
11	720	144,000	720	144,000
12	720	144,000	720	144,000
13	720	144,000	720	144,000
14	720	144,000	720	144,000
15	720	144,000	720	144,000
16	720	144,000	720	144,000

Additional Benefits - Street Maintenance

Elevation @ 418 W Gilbert St, Hampton, Virginia, 23669

Total Annual Street Maintenance Budget: \$0

Total Number of Street Miles Maintained: 0

Street Miles that will not require future maintenance: 0

Expected Annual Benefits - Street Maintenance: \$0

Standard Benefits - Volunteer Costs

Elevation @ 418 W Gilbert St, Hampton, Virginia, 23669

Number of Volunteers (volunteers/event): 0

Number of Days of Lodging: 0

Expected Annual Volunteer Benefits: \$0

Additional Benefits - Social

Elevation @ 418 W Gilbert St, Hampton, Virginia, 23669

Number of Workers: 0

Expected Annual Social Benefits: \$4,886

Benefits-Costs Summary

Elevation @ 418 W Gilbert St, Hampton, Virginia, 23669

Total Standard Mitigation Benefits: \$741,725

Total Social Benefits: \$4,886

Total Mitigation Project Benefits: \$746,611

Total Mitigation Project Cost: \$348,725

Benefit Cost Ratio - Standard: 2.13

Benefit Cost Ratio - Standard + Social: 2.14

Property Configuration

Property Title: Elevation @ 424 W Gilbert St, Hampton, Virginia, 23669

Property Location: 23669, Hampton City, Virginia

Property Coordinates: 37.05253201865243, -76.35798298584203

Hazard Type: Coastal A Flood

Mitigation Action Type: Elevation

Property Type: Residential Building

Analysis Method Type: Modeled Damages

Cost Estimation

Elevation @ 424 W Gilbert St, Hampton, Virginia, 23669

Project Useful Life (years): 30

Project Cost: \$388,060

Number of Maintenance Years: 30 Use Default: Yes

Annual Maintenance Cost: \$0

Comments

Project Useful Life:

Using FEMA Project Useful Life Table - value for Elevation Project.

Hazard Probabilities Parameters - Flood

Elevation @ 424 W Gilbert St, Hampton, Virginia, 23669

Lowest Floor Elevation of the Property (ft): 6.3

Ground Surface Elevation (ft): 4.2

Base Flood Elevation (ft): 9

Feet to Raise First Floor: 5.7

Additional Projected Sea Level Rise above BFE (ft): 1.5

Use Default Recurrence Intervals: Use Default: Yes

Stillwater Elevation

Elevation @ 424 W Gilbert St, Hampton, Virginia, 23669

Before Mitigation	
Recurrence Interval (years)	Stillwater Elevation (ft)
10	5.5
50	7.2
100	7.8
500	9.4

After Mitigation	
Recurrence Interval (years)	Stillwater Elevation (ft)
10	5.5
50	7.2
100	7.8
500	9.4

Building Information

Elevation @ 424 W Gilbert St, Hampton, Virginia, 23669

Building is elevated on an open foundation: No

Obstruction below the lowest horizontal structural member: No

Building Type: One Story

Foundation Type:

Building Has Basement: No

NFIP: Yes

Standard Benefits - Building

Elevation @ 424 W Gilbert St, Hampton, Virginia, 23669

Depth Damage Curve: Expert Panel - WALL (3FT) Use Default: Yes

Building Size (sq.ft): 1,587

Building Replacement Value (\$/sq.ft): \$100 Use Default: Yes

Demolition Threshold (%):50.00%Use Default: Yes

Expected Annual Losses due to Building Damages before Mitigation: \$73,860

Expected Annual Losses due to Building Damages after Mitigation: \$336

Expected Annual Benefits - Building: \$73,524

Depth Damage Curve - Building

Elevation @ 424 W Gilbert St, Hampton, Virginia, 23669

	Before Mitigation				After Mitigation			
Flood Depth (ft)	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)
-2	2	3,974	800	0	0	0	0	0
-1	30	49,498.53	1,888.53	0	0	0	0	0
0	75	165,223.52	5,673.52	850	0	0	0	0
1	100	165,739.3	6,189.29	850	0	0	0	0
2	100	165,739.3	6,189.29	850	0	0	0	0
3	100	165,739.3	6,189.29	850	0	0	0	0
4	100	165,739.3	6,189.29	850	0	0	0	0
5	100	165,739.3	6,189.29	850	0	0	0	0
6	100	165,739.3	6,189.29	850	75	165,223.52	5,673.52	850
7	100	165,739.3	6,189.29	850	100	165,739.3	6,189.29	850
8	100	165,739.3	6,189.29	850	100	165,739.3	6,189.29	850
9	100	165,739.3	6,189.29	850	100	165,739.3	6,189.29	850
10	100	165,739.3	6,189.29	850	100	165,739.3	6,189.29	850
11	100	165,739.3	6,189.29	850	100	165,739.3	6,189.29	850
12	100	165,739.3	6,189.29	850	100	165,739.3	6,189.29	850

	Before Mitigation				After Mitigation			
Flood Depth (ft)	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)
13	100	165,739.3	6,189.29	850	100	165,739.3	6,189.29	850
14	100	165,739.3	6,189.29	850	100	165,739.3	6,189.29	850
15	100	165,739.3	6,189.29	850	100	165,739.3	6,189.29	850
16	100	165,739.3	6,189.29	850	100	165,739.3	6,189.29	850

Standard Benefits - Contents

Elevation @ 424 W Gilbert St, Hampton, Virginia, 23669

Contents Value in Dollars: \$0 Use Default: Yes

Utilities Elevated: Yes

Expected Annual Losses due to Content Damages before Mitigation: \$29,960

Expected Annual Losses due to Content Damages after Mitigation: \$168

Expected Annual Benefits - Content: \$29,792

Depth Damage Curve - Contents

Elevation @ 424 W Gilbert St, Hampton, Virginia, 23669

	Before Mitigation		After Mitigation	
Flood Depth (ft)	Percent (%)	Damage Value (\$)	Percent (%)	Damage Value (\$)
-2	0	0	0	0
-1	10	7,935	0	0
0	75	59,512.5	0	0
1	100	79,350	0	0
2	100	79,350	0	0
3	100	79,350	0	0
4	100	79,350	0	0
5	100	79,350	0	0
6	100	79,350	75	59,512.5
7	100	79,350	100	79,350
8	100	79,350	100	79,350
9	100	79,350	100	79,350
10	100	79,350	100	79,350

Flood Depth (ft)	Before Mitigation		After Mitigation	
	Percent (%)	Damage Value (\$)	Percent (%)	Damage Value (\$)
11	100	79,350	100	79,350
12	100	79,350	100	79,350
13	100	79,350	100	79,350
14	100	79,350	100	79,350
15	100	79,350	100	79,350
16	100	79,350	100	79,350

Standard Benefits - Displacement

Elevation @ 424 W Gilbert St, Hampton, Virginia, 23669

Lodging Per Diem: \$96 Use Default: Yes

Meals Per Diem: \$59 Use Default: Yes

Population Affected: 2

Total Residential Displacement Cost: \$200

Expected Annual Losses due to Displacement Damages before mitigation: \$1,817

Expected Annual Losses due to Displacement Damages after Mitigation: \$5

Expected Annual Losses - Displacement: \$1,812

Depth Damage Curve - Displacement

Elevation @ 424 W Gilbert St, Hampton, Virginia, 23669

Flood Depth (ft)	Before Mitigation		After Mitigation	
	Days	Damage Value (\$)	Days	Damage Value (\$)
-2	0	0	0	0
-1	120	24,000	0	0
0	540	108,000	0	0
1	720	144,000	0	0
2	720	144,000	0	0
3	720	144,000	0	0
4	720	144,000	0	0
5	720	144,000	0	0
6	720	144,000	540	108,000
7	720	144,000	720	144,000

Flood Depth (ft)	Before Mitigation		After Mitigation	
	Days	Damage Value (\$)	Days	Damage Value (\$)
8	720	144,000	720	144,000
9	720	144,000	720	144,000
10	720	144,000	720	144,000
11	720	144,000	720	144,000
12	720	144,000	720	144,000
13	720	144,000	720	144,000
14	720	144,000	720	144,000
15	720	144,000	720	144,000
16	720	144,000	720	144,000

Additional Benefits - Street Maintenance

Elevation @ 424 W Gilbert St, Hampton, Virginia, 23669

Total Annual Street Maintenance Budget: \$0

Total Number of Street Miles Maintained: 0

Street Miles that will not require future maintenance: 0

Expected Annual Benefits - Street Maintenance: \$0

Standard Benefits - Volunteer Costs

Elevation @ 424 W Gilbert St, Hampton, Virginia, 23669

Number of Volunteers (volunteers/event): 0

Number of Days of Lodging: 0

Expected Annual Volunteer Benefits: \$0

Additional Benefits - Social

Elevation @ 424 W Gilbert St, Hampton, Virginia, 23669

Number of Workers: 0

Expected Annual Social Benefits: \$4,886

Benefits-Costs Summary

Elevation @ 424 W Gilbert St, Hampton, Virginia, 23669

Total Standard Mitigation Benefits: \$1,347,109

Total Social Benefits: \$4,886

Total Mitigation Project Benefits: \$1,351,995

Total Mitigation Project Cost: \$388,060

Benefit Cost Ratio - Standard: 3.47

Benefit Cost Ratio - Standard + Social: 3.48

VERTICAL DATUM CONVERSION FOR 420 W GILBERT ST

LOWEST FINISHED FLOOR CONVERSION:

The screenshot shows the NOAA's Vertical Datum Transformation v4.4.2 software interface. The window title is "NOAA's Vertical Datum Transformation - v4.4.2".

*** Region :** Chesapeake/Delaware Bay

Horizontal Information

Source	Target
Reference Frame: NAD 1927	Reference Frame: NAD83(2011)
Coord. System: Geographic (Longitude, Latitude)	Coord. System: Geographic (Longitude, Latitude)
Unit: [Empty]	Unit: [Empty]
Zone: [Empty]	Zone: [Empty]

Vertical Information

Source	Target
Reference Frame: NGVD 1929	Reference Frame: NAVD 88
Unit: foot (U.S. Survey) (US_ft)	Unit: foot (U.S. Survey) (US_ft)
<input checked="" type="radio"/> Height <input type="radio"/> Sounding	<input checked="" type="radio"/> Height <input type="radio"/> Sounding
<input type="checkbox"/> GEOID model: [Empty]	<input type="checkbox"/> GEOID model: [Empty]

Point Conversion | ASCII File Conversion | File Conversion

Input	Output
Latitude: 37.0524279	Latitude: 37.0525705199
Longitude: -76.3576290	Longitude: -76.3572842249
Height: 7.4	Height: 6.529

Buttons: Transform, Reset, DMS, File Report, to DMS

Vertical Area: null

Vertical Uncertainty: (+/-) 0.164 US_ft

LOWEST ADJACENT GRADE CONVERSION:

Document1 - Word

NOAA's Vertical Datum Transformation - v4.4.2

* Region : Chesapeake/Delaware Bay

Horizontal Information

Source		Target	
Reference Frame:	NAD 1927	Reference Frame:	NAD83(2011)
Coor. System:	Geographic (Longitude, Latitude)	Coor. System:	Geographic (Longitude, Latitude)
Unit:		Unit:	
Zone:		Zone:	

Vertical Information

Source		Target	
Reference Frame:	NGVD 1929	Reference Frame:	NAVD 88
Unit:	foot (U.S. Survey) (US_ft)	Unit:	foot (U.S. Survey) (US_ft)
<input checked="" type="radio"/> Height	<input type="radio"/> Sounding	<input checked="" type="radio"/> Height	<input type="radio"/> Sounding
<input type="checkbox"/> GEOID model:		<input type="checkbox"/> GEOID model:	

Point Conversion | ASCII File Conversion | File Conversion

Input		Output	
Latitude:	37.0524279	Latitude:	37.0525705199
Longitude:	-76.3576290	Longitude:	-76.3572842249
Height:	4.7	Height:	3.829
Vertical_Area: null		Vertical Uncertainty: (+/-) 0.164 US_ft	

File Report to DMS

Buttons: Transform, Reset, DMS