APPLICATION CHECKLIST HMGP/FMA/BRIC

For All Project Applications

- [x] Signed Assurances
- [x] USGS Map (Project Location Identified)
- [x] Budget Breakdown
- [ ] Maintenance Agreement
- [x] Benefit Cost Analysis

Homeowner/Critical Facility Application

- [x] Property Information Worksheet for Homeowner
- [ ] Property Information Worksheet for Critical Facility
- [x] Elevation Certificate
- [x] Construction Cost Estimate – ELEVATION ONLY
- [x] Hazardous Materials Survey
- [x] Model Acknowledgment A Form – ELEVATION ONLY
- [x] Voluntary Participation Agreement
- [x] Tax Card
- [x] Firmette (FEMA Map Service Center)
- [x] Parcel Map
- [ ] Proof of Flood Insurance (FMA only)
- [x] 5 Pictures (.jpg Original Digital Color Photo of Each Side and one street-scape view)
- [x] 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.
- [ ] Generator Specific Information/Schematics
- [ ] Memo detailing Ground Disturbance, Fencing, Pad, Date of Construction
- [ ] Cost Estimate
- [ ] FIRM, Identify Elevation if in SFHA
- [ ] Map With Generator Location Marked

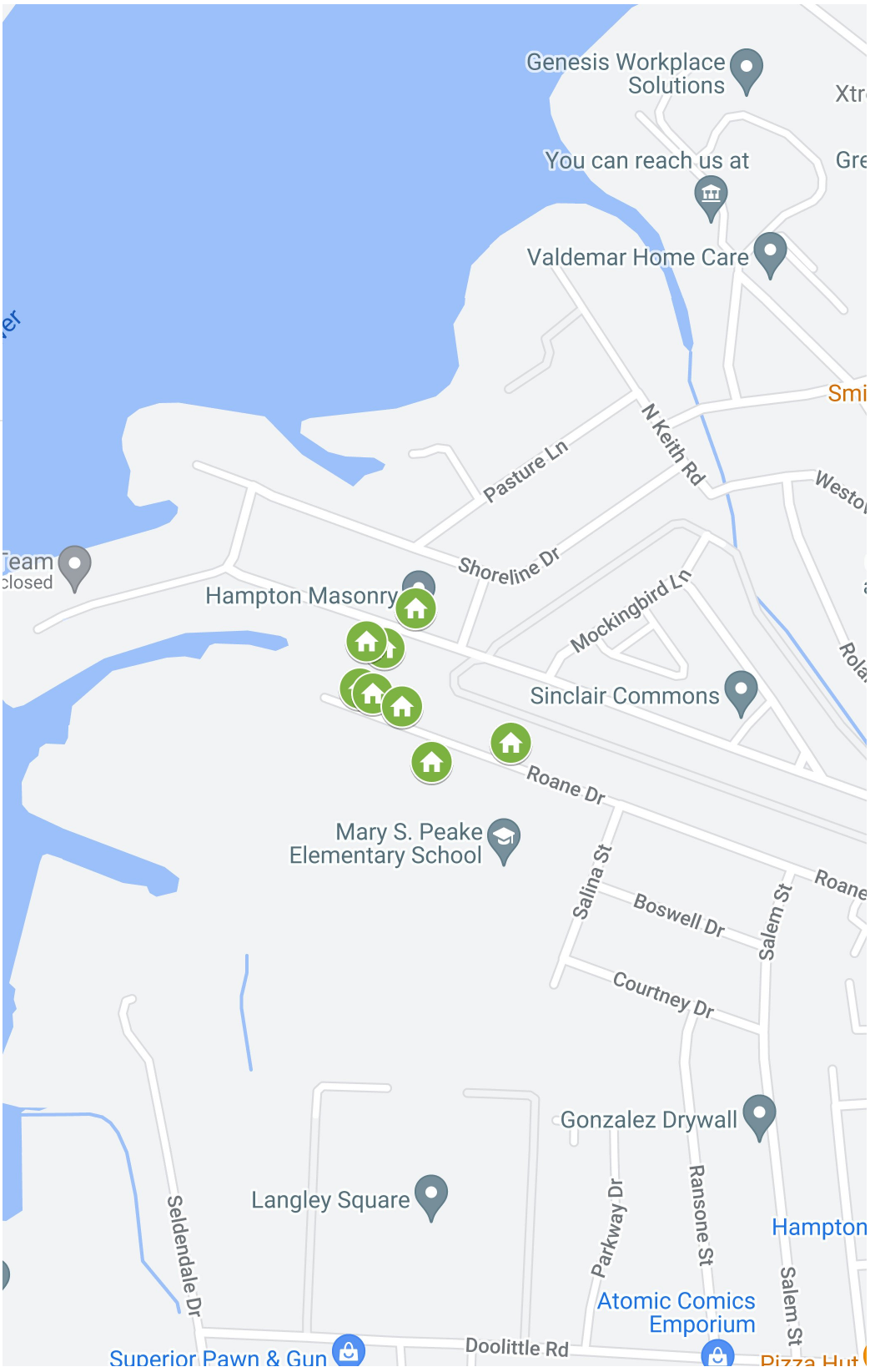
Planning Project

- [ ] Letter of Intent for Each Jurisdiction

ROANE DRIVE/W GILBERT ST ELEVATION PROJECT

Untitled layer

- 314 Roane Dr
- 402 Roane Dr
- 406 Roane Dr
- 407 Roane Dr
- 408 Roane Dr
- 408 W Gilbert St
- 409 W Gilbert St
- 411 W Gilbert St



HAMPTON VA

September 6, 2022

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

Re: HMGP DR 4602 Roane Dr/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 eight homes on Roane Drive and 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 preparatory work or when 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,

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

ADDRESS	CONSTRUCTION	ENGINEERING	HOUSING	CONST MGT	PROJ MGT	TOTAL
314 Roane Dr	$ 250,000.00	$ 40,000.00	$ 6,000.00	$ 12,000.00	$ 20,000.00	$ 328,000.00
402 Roane Dr	$ 250,000.00	$ 40,000.00	$ 6,000.00	$ 12,000.00	$ 20,000.00	$ 328,000.00
406 Roane Dr	$ 250,000.00	$ 40,000.00	$ 6,000.00	$ 12,000.00	$ 20,000.00	$ 328,000.00
407 Roane Dr	$ 250,000.00	$ 40,000.00	$ 6,000.00	$ 12,000.00	$ 20,000.00	$ 328,000.00
408 Roane Dr	$ 250,000.00	$ 40,000.00	$ 6,000.00	$ 12,000.00	$ 20,000.00	$ 328,000.00
408 W Gilbert St	$ 432,950.00	$ 40,000.00	$ 6,000.00	$ 20,500.00	$ 41,500.00	$ 540,950.00
409 W Gilbert St	$ 349,000.00	$ 40,000.00	$ 6,000.00	$ 17,200.00	$ 34,400.00	$ 446,600.00
411 W Gilbert St	$ 287,950.00	$ 40,000.00	$ 6,000.00	$ 14,147.00	$ 26,795.00	$ 374,892.00
						$ 3,002,442.00

CONSTRUCTION COSTS STANDARDIZED AT $250.000 PER HOME FOR FOR ROANE DR FOR BUDGETARY PURPOSES BASED ON ATTACHED ENGINEERING ANALYSIS - HOMES OF SIMILAR SIZE AND CONSTRUCTION. W GILBERT ST HOMES DIFFER IN SIZE AND FOUNDATION TYPES

ENGINEERS / ARCHITECTS / PLANNERS
www.djginc.com

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.

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 for mobilization) + (Square feet of house footprint x $85) + (Height to be raised x $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 for mobilization) + (*Square feet of house footprint x $85 x Multiplier for bdg height) + (Height*

to be raised x $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

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 condiition as applicable). Excludes inflation

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

Grant Application - CITY OF HAMPTON ROANE DR & 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 ROANE DR & W GILBERT ST ELEVATION PROJECT
Total Project Cost:	$3,002,442.00
Eligible Amount:	$3,002,442.00
Initial Obligation:	$300,000.00
Funding Sources:	Federal - $2,702,197.80 State - $300,244.20 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

Workflow Summary

Current Step:	1) Create a Grant Application Description: Create a Grant Application
Last Returned:	Sep 8, 2022 at 2:34 PM by Taylor Charles **Correction Required**

Grant

4602 February 2021 Winter Storm
Hazard Mitigation Grant Program
Declared: May 10, 2021
Work Deadline: May 10, 2025

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

Last Modified:	Sep 11, 2022 at 9:07 PM by Gwen Pointer
Submission:	Aug 3, 2022 at 3:49 PM by Gwen Pointer

Introduction

Summary Information

Grant: 4602 February 2021 Winter Storm

Project Type: Elevation

Title: CITY OF HAMPTON ROANE DR & 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: 650-35000-00

Current FIPS value: 650-35000-00

DUNS: 066019902

Current DUNS value: 066019902

Congressional District: 2,3

Current Congressional District value:

Congressman Name: Bobby Scott, Elaine Luria

Current Congressman Name value:

State Senatorial District: 1,2,3

Current State Senatorial District value:

Senator Name: T. Montgomery Mason, Mamie E. Locke, Thomas K. Norment, Jr.

Current Senator Name value:

State Legislative District: 91, 92, 95

Current State Legislative District value:

Representative Name: A.C. Cordoza, Jeion A. Ward, Marcia S. Price

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: Aug 10, 2022

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

Date Established: Jan 15, 1971

NFIP Number: 515527

Property Located in SFHA? Yes

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	$ 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	$ 100,000.00	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	$ 50,000.00	Nor'easter - project area flood damages, loss of function, loss of utilities. Specific damages per residence provided on property worksheets.
Nov 11, 2009	3	$ 400,000.00	Nor'easter - project area flood damages, loss of function, loss of utilities. Specific damages per residence provided on property worksheets.
Aug 26, 2011	5	$ 150,000.00	Hurricane Irene - project area flood damages, loss of function, loss of utilities. Specific damages per residence provided on property worksheets.
Aug 25, 2012	1	$ 50,000.00	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	$ 10,000.00	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	$ 10,000.00	Nor'easter - project area flood damages, loss of function, loss of utilities. Specific damages per residence provided on property worksheets.
Oct 7, 2016	4	$ 25,000.00	Hurricane Matthew - project area flood damages, loss of function, loss of utilities. Specific damages per residence provided on property worksheets.
Sep 12, 2018	3	$ 25,000.00	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	$ 10,000.00	Hurricane Michael - project area flood damages, loss of function, loss of utilities. Specific damages per residence provided on property worksheets.
Aug 3, 2020	3	$ 10,000.00	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	$ 25,000.00	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	8
Businesses / Commercial Properties	0
Public Properties	0
School / Hospitals / House of Worship	0
Total	**8**

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 required 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:

Roane Drive and W Gilbert Street are subjected to significant flood events, which are increasing in frequency. All of the homes in this project are classified by FEMA as either Repetitive Loss or Severe Repetitive Loss properties, accounting for a substantial number of claims to the National Flood Insurance Program. Roane Drive and W Gilbert Street are adjoining residential roads 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 the project area. The homes lining Roane Drive were constructed in the 1950's and are primarily slab on grade. The W Gilbert Street homes were built in the early 1960's and are single story, brick veneer, split-level homes. A number of other homes in the project area are already elevated, which will allow this project to maintain neighborhood aesthetics. As evidenced on the attached CDC Social Vulnerability Index and Virginia Vulnerability Viewer, this project area demonstrates a high degree of social vulnerability. Coupled with the elevated risk of flood, the homeowners in this project are in dire need of mitigation assistance.

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

Description of the Proposed Project:

This project seeks to elevate five (5) single family homes on Roane Drive and three (3) 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. Completion 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 eight families from flood risk to life and property and will lower flood insurance premiums for socially vulnerable citizens.

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 long-term, direct benefits through reduction or elimination of flood damages and decreases in loss of function for the eight homes included in the project. The project will also provide long-term, indirect benefits in reduction of the burden on the city's emergency preparedness, response and recovery resources.
Please provide the percent of the population benefiting from this mitigation activity:	0.02 %
Please explain your response to the above question:	Based on the assumption of 2.6 persons per household, eight households would represent approximately .015% 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 in managing and completing elevation projects having elevated seventeen homes, since 2016, 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 all aspects of the project, 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 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

8 results

#	Grant Application Worksheet Title	Amount	Grant Application Worksheet Type	Status
1	314 Roane Drive	$308,000.00	Elevation	Included
1	402 Roane Drive	$308,000.00	Elevation	Included
1	406 Roane Drive	$308,000.00	Elevation	Included
1	407 Roane Drive	$308,000.00	Elevation	Included
1	408 Roane Drive	$308,000.00	Elevation	Included
1	408 W Gilbert Street	$499,450.00	Elevation	Included
1	411 W Gilbert Street	$348,097.00	Elevation	Included
2	409 W Gilbert Street	$412,200.00	Elevation	Included

Costs

Worksheet Cost Type Summary

Cost Type	Quantity Sum	Unit Cost Avg.	Total Cost Sum
Construction Management Costs	8.00	$13,980.88	$111,847.00
Elevation/Lifting	8.00	$103,496.25	$827,970.00
Engineering Designs	8.00	$40,000.00	$320,000.00
Foundation	8.00	$186,491.25	$1,491,930.00
Temporary Relocation	8.00	$6,000.00	$48,000.00

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	$ 202,695.00	No	$202,695.00
Grant Application Worksheet Total						**$2,799,747.00**
Grant Application Total						**$202,695.00**
Grand Total						**$3,002,442.00**

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);	$ 300,000.00
Apr 1, 2024	Construction, construction management, project management	$ 1,299,700.00
Apr 1, 2025	Project Closeout - relocation expenses, project management	$ 40,300.00
		$1,640,000.00

Funding Sources

				Funding Source / Other Agency
Method:	◉ By Percent	○ By Amount		
Estimated FEMA Share:	90	%	$2,702,197.80	
Estimated State Share:	10	%	$300,244.20	
Estimated Non-Federal Share:		%	$0.00	
Total Allocated:	100	%	$3,002,442.00	

Cost Effectiveness:

Using the FEMA BCA Toolkit, the projected benefits derived from this project total over 8 million - well over twice the project cost. The eight homes included in this project have recorded over 900 thousand dollars in payments from the NFIP in under a twenty year period. With the frequency and severity of storms expected to continue increasing, damages in the project area are also expected to rise rapidly. It should be noted that the flood insurance claim totals are not representative of total damages as they do not reflect much of he loss that homeowners experience as well as the emergency protective measures and other additional cost to the city. 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 reduction in cost to individual homeowners and 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: $ 8,136,407.00

The total of savings realized by this project.

Benefit Cost Ratio: 2.71

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: 156

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. This project area was targeted due to its high degree of social vulnerability. Owners in this project do not have the resources to mitigate their properties absent government assistance. Two of the repetitive loss properties in the project were in previous grant awards but were not mitigated because the owners were not able to contribute required matching funds. The proposed project provides a unique, and potentially short term, opportunity for these homeowners.

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 and the current cost of construction, 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 are not seeking property acquisition, and would not likely be able to secure affordable housing. Additionally, 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 and 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	$ 2,700,000.00	90 %	
Estimated State Share	$ 300,000.00	10 %	VDEM
Non-Federal Share - Estimated Local Share (Include In-Kind Value)	$	%	
Other Non-FEMA Federal Funds (Do Not Include In Total)	$	%	

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. The homes in the alternative project area are larger and, therefore, fewer homes could be mitigated.

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 application to the Newmarket Creek area of the city as the US Army Corps is in the end stages of developing a large project in the same area. The USACE project is already funded and a public announcement of the project is expected within the next quarter. The city intends to resume targeting the Newmarket Creek area after the scope and impact of the Army Corps project is fully realized.

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).

- [x] A minimum of two color photographs showing at least three sides of each structure (Please label the photos accordingly).

- [x] 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.

- [x] 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:

- [x] A description of the ground disturbance by giving the dimensions (area, volume, depth, etc) and location.
- [x] The past use of the area to be disturbed, noting the extent of previously disturbed ground.
- [x] A USGS 1:24,000 scale or other site map showing the location and extent of ground disturbance.
- [x] 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:

- [x] Description of the amount (area) and type of vegetation to be removed or affected.
- [x] A site map showing the project area and the extent of vegetation affected.
- [x] Photographs or digital images that show both the vegetation affected and the vegetation in context of its surroundings.
- [x] 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. The homes in the project are just over 200 feet away from the Southwest Branch Back River.

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?

No

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 early 1950sto early 1960s. The project will elevate the existing structures - will require erosion and sediment controls 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:

- [x] Description of any disproportionate and adverse effects to these populations.

- [x] 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.

- [x] 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, and the Virginia Social Vulnerability Viewer, the area is highly socially 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, has distributed mailings, 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 proposed project includes five residential structures located on Roane Drive and three residential structures located on W Gilbert Street, in the North King District of the City of Hampton - in the vicinity of the intersection of N King Street with Mercury Boulevard. The addresses included in the project are: 314, 402, 406, 407, and 408 Roane Drive and 408, 409 and 411 W Gilbert Street. 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, 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, 414 W Gilbert St, 415 W Gilbert St, 416 W Gilbert St, 423 W Gilbert St, 312 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., 403 Roane Dr., 405 Roane Dr.

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

Grant Application Worksheet #1 - 314 Roane Drive

Introduction

General

Category: Elevation (Acquisition Worksheet)

Site Name: 314 Roane Drive

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

Location

Location: Independent City of Hampton

Address: 314 Roane Drive

City: Hampton

State: VA - Virginia

Zip Code: 23669

Latitude: 37.050629

In Decimal Format

Longitude: -76.354717

In Decimal Format

Legal Description: FAIRVIEW FARMS 1 L41.

Property Tax ID: 8002129

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#:	N/A
Repetitive Loss ID#:	189312
Flood Insurance Policy #:	SF00136241
Tax Map ID#:	08G025 01 00041
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
Flood damages from Nor'easter - 11/12/2009	$ 21,813.27	Received
Damages from Hurricane Isabel - 9/18/2003	$ 20,963.17	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
Samuel	Scherr	314 Roane Drive	Hampton	VA	23669

Contact Information:

marc.twayne@cox.net
(757) 806-8403

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:	Slab
Describe any sub-floor Utilities (if any):	N/A
Year Constructed:	1952
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:	883 $feet^2$
Living area square footage:	883 $feet^2$
Square Footage of Porches:	144 $feet^2$
Square Footage of Decks:	0 $feet^2$

Square Footage of Attached Garage: 0 feet^2

Square Footage of Basement: 0 feet^2

Year addition(s) were added to the structure: Unknown

Building Value

Estimated replacement value: $ 88,300.00

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 foot^2: $ 88,303.26

Floodplain Information

Base Flood Elevation (BFE): 8

Design Flood Elevation (DFE): 11

If there is a freeboard requirement.

First Floor Elevation (FFE): 6.36

Lowest Horizontal Adjacent Member if a VE Zone House.

Lowest Adjacent Grade: 5.41

Total Feet First Floor is Being Raised: 4.64

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	
Nov 12, 2009			**Flood damages from Nor'easter**	$ 21,813.27	
Sep 18, 2003			**Flood damages from Hurricane Isabel**	$ 20,963.17	

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, elevation certificates, 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 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	$ 100,000.00	No	$100,000.00
Foundation	Build new foundation; framing/construction of subfloor; insulation; construction of ingress/egress structures; reconnection of utilities.	1	Job	$ 150,000.00	No	$150,000.00
Construction Management Costs	Monitoring site; inspections by Engineer of Record; photo diary, field inspection reports	1	Job	$ 12,000.00	No	$12,000.00
Grand Total						**$308,000.00**

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)?	0.05 Acres
Is there a building 50 years old or older within or near the project area?	Yes
Year of Construction:	1952

Grant Application Worksheet #1 - 402 Roane Drive

Introduction

General

Category: Elevation (Acquisition Worksheet)

Site Name: 402 Roane Drive

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

Location

Location: Independent City of Hampton

Address: 402 Roane Drive

City: Hampton

State: VA - Virginia

Zip Code: 23669

Latitude: 37.050983

In Decimal Format

Longitude: -76.356092

In Decimal Format

Legal Description: FAIRVIEW FARMS 1 L34.

Property Tax ID: 8002122

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#:	N/A
Repetitive Loss ID#:	168684
Flood Insurance Policy #:	FLD2752353
Tax Map ID#:	08G025 01 00034
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
Flood damages from Hurricane Irene - 8/29/2011	$ 10,294.92	Received
Flood damages from Nor'easter - 11/12/2009	$ 33,581.52	Received
Damages from flood event - 10/7/2006	$ 4,093.25	Received
Flood damages from Hurricane Isabel	$ 15,460.85	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
Rose	Bone	402 Roane Drive	Hampton	VA	23669

Contact Information:

rosebone1954@gmail.com
(757) 325-5370

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:	Slab
Describe any sub-floor Utilities (if any):	N/A
Year Constructed:	1952
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:	883 $feet^2$
Living area square footage:	883 $feet^2$
Square Footage of Porches:	0 $feet^2$
Square Footage of Decks:	0 $feet^2$
Square Footage of Attached Garage:	0 $feet^2$
Square Footage of Basement:	0 $feet^2$
Year addition(s) were added to the structure:	N/A

Building Value

Estimated replacement value: $ 88,300.00

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 foot^2: $ 88,300.00

Floodplain Information

Base Flood Elevation (BFE): 9

Design Flood Elevation (DFE): 12

If there is a freeboard requirement.

First Floor Elevation (FFE): 5.5

Lowest Horizontal Adjacent Member if a VE Zone House.

Lowest Adjacent Grade: 4.7

Total Feet First Floor is Being Raised: 6.5

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	
				$	

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, elevation certificates, 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 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	$ 100,000.00	No	$100,000.00
Foundation	Build new foundation; framing/construction of subfloor; insulation; construction of ingress/egress structures; reconnection of utilities.	1	Job	$ 150,000.00	No	$150,000.00
Construction Management Costs	Monitoring site; inspections by Engineer of Record; photo diary, field inspection reports	1	Job	$ 12,000.00	No	$12,000.00
Grand Total						**$308,000.00**

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)?	0.05 Acres
Is there a building 50 years old or older within or near the project area?	Yes
Year of Construction:	1952

Grant Application Worksheet #1 - 406 Roane Drive

Introduction

General

Category: Elevation (Acquisition Worksheet)

Site Name: 406 Roane Drive

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

Location

Location: Independent City of Hampton

Address: 406 Roane Drive

City: Hampton

State: VA - Virginia

Zip Code: 23669

Latitude: 37.051118

In Decimal Format

Longitude: -76.356473

In Decimal Format

Legal Description: FAIRVIEW FARMS 1 L32.

Property Tax ID: 8002120

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#:	N/A
Repetitive Loss ID#:	207039
Flood Insurance Policy #:	SF00227082
Tax Map ID#:	08G025 01 00032
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
Flood damages from Hurricane Irene - 8/27/2011	$ 48,002.37	Received
Flood damages from Nor'easter - 11/12/2009	$ 68,124.96	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	Nash	406 Roane Drive	Hampton	VA	23669
Audrey	Nash	406 Roane Drive	Hampton	VA	23669

Contact Information:

jn406@msn.com
audrey.m.nash@gmail.com
(757) 927-0281
(757) 927-0280

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:	Slab
Describe any sub-floor Utilities (if any):	N/A
Year Constructed:	1952
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:	1397 $feet^2$
Living area square footage:	1397 $feet^2$
Square Footage of Porches:	0 $feet^2$
Square Footage of Decks:	0 $feet^2$
Square Footage of Attached Garage:	0 $feet^2$
Square Footage of Basement:	0 $feet^2$
Year addition(s) were added to the structure:	Unknown

Building Value

Estimated replacement value: $ 139,700.00

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 foot^2: $ 139,700.00

Floodplain Information

Base Flood Elevation (BFE): 9

Design Flood Elevation (DFE): 12

If there is a freeboard requirement.

First Floor Elevation (FFE): 5.3

Lowest Horizontal Adjacent Member if a VE Zone House.

Lowest Adjacent Grade: 5.41

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: 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			**Flood damage from Hurricane Irene**	$ 48,002.37	
Nov 12, 2009			**Flood damage from Nor'easter**	$ 68,124.96	

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, elevation certificates, 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 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	$ 100,000.00	No	$100,000.00
Foundation	Build new foundation; framing/construction of subfloor; insulation; construction of ingress/egress structures; reconnection of utilities.	1	Job	$ 150,000.00	No	$150,000.00
Construction Management Costs	Monitoring site; inspections by Engineer of Record; photo diary, field inspection reports	1	Job	$ 12,000.00	No	$12,000.00
Grand Total						**$308,000.00**

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)?	0.07 Acres
Is there a building 50 years old or older within or near the project area?	Yes
Year of Construction:	1952

Grant Application Worksheet #1 - 407 Roane Drive

Introduction

General

Category: Elevation (Acquisition Worksheet)

Site Name: 407 Roane Drive

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

Location

Location: Independent City of Hampton

Address: 407 Roane Drive

City: Hampton

State: VA - Virginia

Zip Code: 23669

Latitude: 37.050696

In Decimal Format

Longitude: -76.356634

In Decimal Format

Legal Description: FAIRVIEW FARMS 1 L23.

Property Tax ID: 8002111

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#:	168468
Repetitive Loss ID#:	168468
Flood Insurance Policy #:	RNR3107698
Tax Map ID#:	08G025 01 00023
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 flood event - 10/23/2012	$ 24,924.94	Received
Damages from Hurricane Irene - 8/27/2011	$ 28,482.02	Received
Damages from Nor'easter - 11/13/2009	$ 46,809.80	Received
Damages from Nor'easter - 11/22/2006	$ 10,631.96	Received
Damages from flood event - 10/6/2006	$ 41,364.46	Received
Damages from Hurricane Isabel -9/18/2003	$ 34,063.64	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
Darion	Delaney	407 Roane Drive	Hampton	VA	23669

Contact Information:

karlajdelaney612@gmail.com
(937)304-3594
(816)772-5022

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:
	Slab and Crawl
Describe any sub-floor Utilities (if any):	N/A
Year Constructed:	1952
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:	1363 $feet^2$
Living area square footage:	1363 $feet^2$
Square Footage of Porches:	64 $feet^2$
Square Footage of Decks:	0 $feet^2$

Square Footage of Attached Garage: 0 feet^2

Square Footage of Basement: 0 feet^2

Year addition(s) were added to the structure: 2005

Building Value

Estimated replacement value: $ 136,300.00

Use RS Means or another documentable source.

Replacement Value Source: FEMA default value per Sqft

Please attach supporting documentation.

Value per foot^2: $ 136,300.94

Floodplain Information

Base Flood Elevation (BFE): 9

Design Flood Elevation (DFE): 12

If there is a freeboard requirement.

First Floor Elevation (FFE): 4.7

Lowest Horizontal Adjacent Member if a VE Zone House.

Lowest Adjacent Grade: 3.6

Total Feet First Floor is Being Raised: 7.3

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	
Oct 23, 2012			**Damages from flood event**	$ 24,924.94	
Aug 27, 2011			**Huricane Irene - flood damages**	$ 28,482.02	
Nov 13, 2009			**Nor'easter - flood damages**	$ 46,809.80	
Nov 22, 2006			**Nor'easter - flood damages**	$ 10,631.96	
Oct 6, 2006			**Damages from flood event**	$ 41,364.46	
Sep 18, 2003			**Hurricane Isabel - flood damages**	$ 34,063.64	

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, elevation certificates, 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 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	$ 100,000.00	No	$100,000.00
Foundation	Build new foundation; framing/construction of subfloor; insulation; construction of ingress/egress structures; reconnection of utilities.	1	Job	$ 150,000.00	No	$150,000.00
Construction Management Costs	Monitoring site; inspections by Engineer of Record; photo diary, field inspection reports	1	Job	$ 12,000.00	No	$12,000.00
Grand Total						**$308,000.00**

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:	1952

Grant Application Worksheet #1 - 408 Roane Drive

Introduction

General

Category: Elevation (Acquisition Worksheet)

Site Name: 408 Roane Drive

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

Location

Location: Independent City of Hampton

Address: 408 Roane Drive

City: Hampton

State: VA - Virginia

Zip Code: 23669

Latitude: 37.051172

In Decimal Format

Longitude: -76.356658

In Decimal Format

Legal Description: FAIRVIEW FARMS 1 L31.

Property Tax ID: 8002119

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#:	125246
Repetitive Loss ID#:	125246
Flood Insurance Policy #:	VAH543217401
Tax Map ID#:	08G025 01 00031
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 Coastal Flood Event - 10/4/2015	$ 21,686.33	Received
Damages from Heavy Rain/Flood Event - 10/28/12	$ 34,174.97	Received
Damages from Hurricane Irene - 8/27/2011	$ 18,268.57	Received
Damages from flood event - 9/25/2008	$ 10,502.06	Received
Damages from flood event - 10/8/2006	$ 8,163.29	Received
Damages from Flash Flood Event - 9/1/2006	$ 13,899.68	Received
Damages from Hurricane Isabel - 9/18/2003	$ 15,248.24	Received
Damages from flood event - 1/28/1998	$ 1,484.26	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
Jalal	Agouli	408 Roane Drive	Hampton	VA	23669
Madison	Clement	408 Roane Drive	Hampton	VA	23669

Contact Information:

jalal112198@yahoo.com
madzey2k@gmail.com
(978)482-4045

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:	Slab
Describe any sub-floor Utilities (if any):	N/A
Year Constructed:	1952
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:	707 $feet^2$
Living area square footage:	707 $feet^2$
Square Footage of Porches:	25 $feet^2$
Square Footage of Decks:	144 $feet^2$
Square Footage of Attached Garage:	0 $feet^2$
Square Footage of Basement:	0 $feet^2$
Year addition(s) were added to the structure:	N/A

Building Value

Estimated replacement value: $ 70,700.00

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 foot^2: $ 70,703.76

Floodplain Information

Base Flood Elevation (BFE): 9

Design Flood Elevation (DFE): 12

If there is a freeboard requirement.

First Floor Elevation (FFE): 4.7

Lowest Horizontal Adjacent Member if a VE Zone House.

Lowest Adjacent Grade: 3.9

Total Feet First Floor is Being Raised: 7.3

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	
Oct 4, 2015			Structural from coastal flood event	$ 21,686.33	
Oct 28, 2012			Structure and contents from heavy rain flood	$ 34,174.97	
Aug 27, 2011			Structural from Hurricane Irene	$ 18,268.57	
Sep 25, 2008			Structural from flood event	$ 10,502.06	
Oct 8, 2006			Structure and contents from flood event	$ 8,163.29	
Sep 1, 2006			Structural from flash flood event	$ 13,899.68	
Sep 18, 2003			Structural from Hurricane Isabel	$ 15,248.24	
Jan 28, 1998			Structural from flood event	$ 1,484.26	

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, elevation certificates, 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 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	$ 100,000.00	No	$100,000.00
Foundation	Build new foundation; framing/construction of subfloor; insulation; construction of ingress/egress structures; reconnection of utilities.	1	Job	$ 150,000.00	No	$150,000.00
Construction Management Costs	Monitoring site; inspections by Engineer of Record; photo diary, field inspection reports	1	Job	$ 12,000.00	No	$12,000.00
Grand Total						**$308,000.00**

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)?	0.04 Acres
Is there a building 50 years old or older within or near the project area?	Yes
Year of Construction:	1952

Grant Application Worksheet #1 - 408 W Gilbert Street

Introduction

General

Category: Elevation (Acquisition Worksheet)

Site Name: 408 W Gilbert Street

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

Location

Location: Independent City of Hampton

Address: 408 W Gilbert St

City: Hampton

State: VA - Virginia

Zip Code: 23669

Latitude: 37.051991

In Decimal Format

Longitude: -76.355942

In Decimal Format

Legal Description:

Property Tax ID:

Flood Zone(s): Nothing Selected

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?	No
Have any insurance proceeds been received on this site, or are you anticipating any insurance proceeds?	Select One

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
Faynetta	Anderson-Jennings	408 W Gilbert St	Hampton	VA	23669

Contact Information:

fanderson24@cox.net
(757)746-6646

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 & Slab
Describe any sub-floor Utilities (if any):	N/A
Year Constructed:	1957
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):	SF00136382
NFIP RL Number (if insured):	RL203147
Number of stories above grade:	1 stories

Size and Use

Total square footage of main structure:	2988 feet^2
Living area square footage:	2988 feet^2
Square Footage of Porches:	0 feet^2
Square Footage of Decks:	0 feet^2

Square Footage of Attached Garage: 0 feet^2

Square Footage of Basement: 0 feet^2

Year addition(s) were added to the structure: Unknown

Building Value

Estimated replacement value: $ 298,800.00

Use RS Means or another documentable source.

Replacement Value Source: FEMA Default Value of $100/Sqft

Please attach supporting documentation.

Value per foot^2: $ 298,800.00

Floodplain Information

Base Flood Elevation (BFE): 8

Design Flood Elevation (DFE): 11

If there is a freeboard requirement.

First Floor Elevation (FFE): 5.4

Lowest Horizontal Adjacent Member if a VE Zone House.

Lowest Adjacent Grade: 4.6

Total Feet First Floor is Being Raised: 5.6

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:	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 26, 2011		1-2 ft i Crawl	Damage to	$ 10,054.82	
Nov 11, 2009		1-2 ft in house	Damage to HVAC/Ductwork, interior flooring, drywall, electrical, plumbing	$ 71,086.34	

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, elevation certificates, 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 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	$ 129,885.00	No	$129,885.00
Foundation	Build new foundation; framing/construction of subfloor; insulation; construction of ingress/egress structures; reconnection of utilities	1	Job	$ 303,065.00	No	$303,065.00
Construction Management Costs	Monitoring site; inspections by Engineer of Record; photo diary, field inspection reports	1	Job	$ 20,500.00	No	$20,500.00
Grand Total						**$499,450.00**

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)?	0.14 Acres
Is there a building 50 years old or older within or near the project area?	Yes
Year of Construction:	1957

Grant Application Worksheet #2 - 409 W Gilbert Street

Introduction

General

Category: Elevation (Acquisition Worksheet)

Site Name: 409 W Gilbert Street

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

Location

Location: Independent City of Hampton

Address: 409 W Gilbert St

City: Hampton

State: VA - Virginia

Zip Code: 23669

Latitude: 37.051575

In Decimal Format

Longitude: -76.35635

In Decimal Format

Legal Description: THE PASTURES L4.

Property Tax ID: 8005458

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#:	N/A
Repetitive Loss ID#:	191546
Flood Insurance Policy #:	18036496392022
Tax Map ID#:	08V002 00 00004
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
August, 2011 - Flood damages from Hurricane Irene	$ 16,444.06	Received
November, 2009 - damages from Nor'easter	$ 42,469.06	Received
Damages from Hurricane Isabel - 9/18/2003	$ 40,949.00	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
Paul	Holbrooks, Jr	409 W Gilbert St	Hampton	VA	23669
Catherine	Holbrooks	409 W Gilbert St	Hampton	VA	23669

Contact Information:

cholbrooks75@gmail.com
(757)303-7184

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 & Slab
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):	18036496392022
NFIP RL Number (if insured):	191546
Number of stories above grade:	1 stories

Size and Use

Total square footage of main structure:	1890 feet^2
Living area square footage:	1890 feet^2
Square Footage of Porches:	240 feet^2
Square Footage of Decks:	288 feet^2

Square Footage of Attached Garage: 0 feet^2

Square Footage of Basement: 0 feet^2

Year addition(s) were added to the structure: Unknown

Building Value

Estimated replacement value: $ 189,000.00

Use RS Means or another documentable source.

Replacement Value Source: FEMA Default BRV of $100/Sqft

Please attach supporting documentation.

Value per foot^2: $ 189,004.83

Floodplain Information

Base Flood Elevation (BFE): 8

Design Flood Elevation (DFE): 11

If there is a freeboard requirement.

First Floor Elevation (FFE): 5.3

Lowest Horizontal Adjacent Member if a VE Zone House.

Lowest Adjacent Grade: 5.1

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:	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 26, 2011			**Hurricane Irene - flood damages**	$ 16,444.06	
Nov 11, 2009			**Tropical Storm Ernesto - flood damages**	$ 42,469.06	
Sep 18, 2003			**Hurricane Isabel - flood damages**	$ 40,949.00	

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 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	$ 108,200.00	No	$108,200.00
Foundation	Build new foundation; framing/construction of subfloor; insulation; construction of ingress/egress structures; reconnection of utilities	1	Job	$ 240,800.00	No	$240,800.00
Construction Management Costs	Monitoring site; inspections by Engineer of Record; photo diary, field inspection reports	1	Job	$ 17,200.00	No	$17,200.00
Grand Total						**$412,200.00**

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 - 411 W Gilbert Street

Introduction

General

Category: Elevation (Acquisition Worksheet)

Site Name: 411 W Gilbert Street

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

Location

Location: Independent City of Hampton

Address: 411 W Gilbert St

City: Hampton

State: VA - Virginia

Zip Code: 23669

Latitude: 37.051649

In Decimal Format

Longitude: -76.356568

In Decimal Format

Legal Description: THE PASTURES L5.

Property Tax ID: 8005459

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#:	167753
Repetitive Loss ID#:	167753
Flood Insurance Policy #:	EZ400040457
Tax Map ID#:	08V002 00 00005
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
Flood damages from Hurricane Irene 8/27/2011	$ 13,238.14	Received
Damages from Nor'easter 11/11/2009	$ 102,296.77	Received
Damages from Nor'easter 11/22/2006	$ 9,760.06	Received
Damages from Flooding 10/6/2006	$ 25,328.08	Received
Damages from Hurricane Isabel 9/18/2003	$ 90,370.76	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
Renaldo	Devers	411 W Gilbert St	Hampton	VA	23669
Denine	Devers	411 W Gilbert St	Hampton	VA	23669

Contact Information:

deninedevers@yahoo.com
renaldodevers@yahoo.com
(757)631-3424

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 & 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 a part of project
NFIP Policy Number (if insured):	EZ400040457
NFIP RL Number (if insured):	167753
Number of stories above grade:	1 stories

Size and Use

Total square footage of main structure:	1596 feet^2
Living area square footage:	1596 feet^2
Square Footage of Porches:	0 feet^2
Square Footage of Decks:	0 feet^2

Square Footage of Attached Garage: 351 feet^2

Square Footage of Basement: 0 feet^2

Year addition(s) were added to the structure: Unknown

Building Value

Estimated replacement value: $ 159,600.00

Use RS Means or another documentable source.

Replacement Value Source: FEMA Default Value of $100/SQFT

Please attach supporting documentation.

Value per foot^2: $ 159,608.80

Floodplain Information

Base Flood Elevation (BFE): 8

Design Flood Elevation (DFE): 11

If there is a freeboard requirement.

First Floor Elevation (FFE): 5.24

Lowest Horizontal Adjacent Member if a VE Zone House.

Lowest Adjacent Grade: 4.46

Total Feet First Floor is Being Raised: 5.76

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			**Hurricane Irene - flood damages**	$ 13,238.14	
Nov 11, 2009			**Nor'easter - flood damages**	$ 102,296.77	
Nov 22, 2006			**Nor'easter - flood damages**	$ 9,760.06	
Oct 6, 2006			**Flood Event**	$ 25,328.08	
Sep 18, 2003			**Hurricane Isabel - flood damages**	$ 90,370.76	

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 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	$ 89,885.00	No	$89,885.00
Foundation	Build new foundation; framing/construction of subfloor; insulation; construction of ingress/egress structures; reconnection of utilities	1	Job	$ 198,065.00	No	$198,065.00
Construction Management Costs	Monitoring site; inspections by Engineer of Record; photo diary, field inspection reports	1	Job	$ 14,147.00	No	$14,147.00
Grand Total						**$348,097.00**

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 - 314 Roane Drive

Introduction

General

Category: Elevation (Acquisition Worksheet)

Site Name: 314 Roane Drive

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

Location

Location: Independent City of Hampton

Address: 314 Roane Drive

City: Hampton

State: VA - Virginia

Zip Code: 23669

Latitude: 37.050629

In Decimal Format

Longitude: -76.354717

In Decimal Format

Legal Description: FAIRVIEW FARMS 1 L41.

Property Tax ID: 8002129

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#:	N/A
Repetitive Loss ID#:	189312
Flood Insurance Policy #:	SF00136241
Tax Map ID#:	08G025 01 00041
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
Flood damages from Nor'easter - 11/12/2009	$ 21,813.27	Received
Damages from Hurricane Isabel - 9/18/2003	$ 20,963.17	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
Samuel	Scherr	314 Roane Drive	Hampton	VA	23669

Contact Information:

marc.twayne@cox.net
(757) 806-8403

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:	Slab
Describe any sub-floor Utilities (if any):	N/A
Year Constructed:	1952
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:	883 $feet^2$
Living area square footage:	883 $feet^2$
Square Footage of Porches:	144 $feet^2$
Square Footage of Decks:	0 $feet^2$

Square Footage of Attached Garage: 0 feet^2

Square Footage of Basement: 0 feet^2

Year addition(s) were added to the structure: Unknown

Building Value

Estimated replacement value: $ 88,300.00

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 foot^2: $ 88,303.26

Floodplain Information

Base Flood Elevation (BFE): 8

Design Flood Elevation (DFE): 11

If there is a freeboard requirement.

First Floor Elevation (FFE): 6.36

Lowest Horizontal Adjacent Member if a VE Zone House.

Lowest Adjacent Grade: 5.41

Total Feet First Floor is Being Raised: 4.64

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	
Nov 12, 2009			**Flood damages from Nor'easter**	$ 21,813.27	
Sep 18, 2003			**Flood damages from Hurricane Isabel**	$ 20,963.17	

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, elevation certificates, 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 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	$ 100,000.00	No	$100,000.00
Foundation	Build new foundation; framing/construction of subfloor; insulation; construction of ingress/egress structures; reconnection of utilities.	1	Job	$ 150,000.00	No	$150,000.00
Construction Management Costs	Monitoring site; inspections by Engineer of Record; photo diary, field inspection reports	1	Job	$ 12,000.00	No	$12,000.00
Grand Total						**$308,000.00**

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)?	0.05 Acres
Is there a building 50 years old or older within or near the project area?	Yes
Year of Construction:	1952

Grant Application Worksheet #1 - 402 Roane Drive

Introduction

General

Category: Elevation (Acquisition Worksheet)

Site Name: 402 Roane Drive

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

Location

Location: Independent City of Hampton

Address: 402 Roane Drive

City: Hampton

State: VA - Virginia

Zip Code: 23669

Latitude: 37.050983

In Decimal Format

Longitude: -76.356092

In Decimal Format

Legal Description: FAIRVIEW FARMS 1 L34.

Property Tax ID: 8002122

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#:	N/A
Repetitive Loss ID#:	168684
Flood Insurance Policy #:	FLD2752353
Tax Map ID#:	08G025 01 00034
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
Flood damages from Hurricane Irene - 8/29/2011	$ 10,294.92	Received
Flood damages from Nor'easter - 11/12/2009	$ 33,581.52	Received
Damages from flood event - 10/7/2006	$ 4,093.25	Received
Flood damages from Hurricane Isabel	$ 15,460.85	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
Rose	Bone	402 Roane Drive	Hampton	VA	23669

Contact Information:

rosebone1954@gmail.com
(757) 325-5370

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:	Slab
Describe any sub-floor Utilities (if any):	N/A
Year Constructed:	1952
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:	883 $feet^2$
Living area square footage:	883 $feet^2$
Square Footage of Porches:	0 $feet^2$
Square Footage of Decks:	0 $feet^2$
Square Footage of Attached Garage:	0 $feet^2$
Square Footage of Basement:	0 $feet^2$
Year addition(s) were added to the structure:	N/A

Building Value

Estimated replacement value: $ 88,300.00

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 foot^2: $ 88,300.00

Floodplain Information

Base Flood Elevation (BFE): 9

Design Flood Elevation (DFE): 12

If there is a freeboard requirement.

First Floor Elevation (FFE): 5.5

Lowest Horizontal Adjacent Member if a VE Zone House.

Lowest Adjacent Grade: 4.7

Total Feet First Floor is Being Raised: 6.5

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	
				$	

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, elevation certificates, 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 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	$ 100,000.00	No	$100,000.00
Foundation	Build new foundation; framing/construction of subfloor; insulation; construction of ingress/egress structures; reconnection of utilities.	1	Job	$ 150,000.00	No	$150,000.00
Construction Management Costs	Monitoring site; inspections by Engineer of Record; photo diary, field inspection reports	1	Job	$ 12,000.00	No	$12,000.00
Grand Total						**$308,000.00**

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)?	0.05 Acres
Is there a building 50 years old or older within or near the project area?	Yes
Year of Construction:	1952

Grant Application Worksheet #1 - 406 Roane Drive

Introduction

General

Category: Elevation (Acquisition Worksheet)

Site Name: 406 Roane Drive

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

Location

Location: Independent City of Hampton

Address: 406 Roane Drive

City: Hampton

State: VA - Virginia

Zip Code: 23669

Latitude: 37.051118

In Decimal Format

Longitude: -76.356473

In Decimal Format

Legal Description: FAIRVIEW FARMS 1 L32.

Property Tax ID: 8002120

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#:	N/A
Repetitive Loss ID#:	207039
Flood Insurance Policy #:	SF00227082
Tax Map ID#:	08G025 01 00032
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
Flood damages from Hurricane Irene - 8/27/2011	$ 48,002.37	Received
Flood damages from Nor'easter - 11/12/2009	$ 68,124.96	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	Nash	406 Roane Drive	Hampton	VA	23669
Audrey	Nash	406 Roane Drive	Hampton	VA	23669

Contact Information:

jn406@msn.com
audrey.m.nash@gmail.com
(757) 927-0281
(757) 927-0280

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:	Slab
Describe any sub-floor Utilities (if any):	N/A
Year Constructed:	1952
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:	1397 $feet^2$
Living area square footage:	1397 $feet^2$
Square Footage of Porches:	0 $feet^2$
Square Footage of Decks:	0 $feet^2$
Square Footage of Attached Garage:	0 $feet^2$
Square Footage of Basement:	0 $feet^2$
Year addition(s) were added to the structure:	Unknown

Building Value

Estimated replacement value: $ 139,700.00

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 foot^2: $ 139,700.00

Floodplain Information

Base Flood Elevation (BFE): 9

Design Flood Elevation (DFE): 12

If there is a freeboard requirement.

First Floor Elevation (FFE): 5.3

Lowest Horizontal Adjacent Member if a VE Zone House.

Lowest Adjacent Grade: 5.41

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: 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			**Flood damage from Hurricane Irene**	$ 48,002.37	
Nov 12, 2009			**Flood damage from Nor'easter**	$ 68,124.96	

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, elevation certificates, 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 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	$ 100,000.00	No	$100,000.00
Foundation	Build new foundation; framing/construction of subfloor; insulation; construction of ingress/egress structures; reconnection of utilities.	1	Job	$ 150,000.00	No	$150,000.00
Construction Management Costs	Monitoring site; inspections by Engineer of Record; photo diary, field inspection reports	1	Job	$ 12,000.00	No	$12,000.00
Grand Total						**$308,000.00**

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)?	0.07 Acres
Is there a building 50 years old or older within or near the project area?	Yes
Year of Construction:	1952

Grant Application Worksheet #1 - 407 Roane Drive

Introduction

General

Category: Elevation (Acquisition Worksheet)

Site Name: 407 Roane Drive

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

Location

Location: Independent City of Hampton

Address: 407 Roane Drive

City: Hampton

State: VA - Virginia

Zip Code: 23669

Latitude: 37.050696

In Decimal Format

Longitude: -76.356634

In Decimal Format

Legal Description: FAIRVIEW FARMS 1 L23.

Property Tax ID: 8002111

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#:	168468
Repetitive Loss ID#:	168468
Flood Insurance Policy #:	RNR3107698
Tax Map ID#:	08G025 01 00023
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 flood event - 10/23/2012	$ 24,924.94	Received
Damages from Hurricane Irene - 8/27/2011	$ 28,482.02	Received
Damages from Nor'easter - 11/13/2009	$ 46,809.80	Received
Damages from Nor'easter - 11/22/2006	$ 10,631.96	Received
Damages from flood event - 10/6/2006	$ 41,364.46	Received
Damages from Hurricane Isabel -9/18/2003	$ 34,063.64	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
Darion	Delaney	407 Roane Drive	Hampton	VA	23669

Contact Information:

karlajdelaney612@gmail.com
(937)304-3594
(816)772-5022

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:
	Slab and Crawl
Describe any sub-floor Utilities (if any):	N/A
Year Constructed:	1952
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:	1363 $feet^2$
Living area square footage:	1363 $feet^2$
Square Footage of Porches:	64 $feet^2$
Square Footage of Decks:	0 $feet^2$

Square Footage of Attached Garage: 0 feet^2

Square Footage of Basement: 0 feet^2

Year addition(s) were added to the structure: 2005

Building Value

Estimated replacement value: $ 136,300.00

Use RS Means or another documentable source.

Replacement Value Source: FEMA default value per Sqft

Please attach supporting documentation.

Value per foot^2: $ 136,300.94

Floodplain Information

Base Flood Elevation (BFE): 9

Design Flood Elevation (DFE): 12

If there is a freeboard requirement.

First Floor Elevation (FFE): 4.7

Lowest Horizontal Adjacent Member if a VE Zone House.

Lowest Adjacent Grade: 3.6

Total Feet First Floor is Being Raised: 7.3

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	
Oct 23, 2012			**Damages from flood event**	$ 24,924.94	
Aug 27, 2011			**Huricane Irene - flood damages**	$ 28,482.02	
Nov 13, 2009			**Nor'easter - flood damages**	$ 46,809.80	
Nov 22, 2006			**Nor'easter - flood damages**	$ 10,631.96	
Oct 6, 2006			**Damages from flood event**	$ 41,364.46	
Sep 18, 2003			**Hurricane Isabel - flood damages**	$ 34,063.64	

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, elevation certificates, 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 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	$ 100,000.00	No	$100,000.00
Foundation	Build new foundation; framing/construction of subfloor; insulation; construction of ingress/egress structures; reconnection of utilities.	1	Job	$ 150,000.00	No	$150,000.00
Construction Management Costs	Monitoring site; inspections by Engineer of Record; photo diary, field inspection reports	1	Job	$ 12,000.00	No	$12,000.00
Grand Total						**$308,000.00**

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:	1952

Grant Application Worksheet #1 - 408 Roane Drive

Introduction

General

Category: Elevation (Acquisition Worksheet)

Site Name: 408 Roane Drive

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

Location

Location: Independent City of Hampton

Address: 408 Roane Drive

City: Hampton

State: VA - Virginia

Zip Code: 23669

Latitude: 37.051172

In Decimal Format

Longitude: -76.356658

In Decimal Format

Legal Description: FAIRVIEW FARMS 1 L31.

Property Tax ID: 8002119

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#:	125246
Repetitive Loss ID#:	125246
Flood Insurance Policy #:	VAH543217401
Tax Map ID#:	08G025 01 00031
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 Coastal Flood Event - 10/4/2015	$ 21,686.33	Received
Damages from Heavy Rain/Flood Event - 10/28/12	$ 34,174.97	Received
Damages from Hurricane Irene - 8/27/2011	$ 18,268.57	Received
Damages from flood event - 9/25/2008	$ 10,502.06	Received
Damages from flood event - 10/8/2006	$ 8,163.29	Received
Damages from Flash Flood Event - 9/1/2006	$ 13,899.68	Received
Damages from Hurricane Isabel - 9/18/2003	$ 15,248.24	Received
Damages from flood event - 1/28/1998	$ 1,484.26	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
Jalal	Agouli	408 Roane Drive	Hampton	VA	23669
Madison	Clement	408 Roane Drive	Hampton	VA	23669

Contact Information:

jalal112198@yahoo.com
madzey2k@gmail.com
(978)482-4045

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:	Slab
Describe any sub-floor Utilities (if any):	N/A
Year Constructed:	1952
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:	707 $feet^2$
Living area square footage:	707 $feet^2$
Square Footage of Porches:	25 $feet^2$
Square Footage of Decks:	144 $feet^2$
Square Footage of Attached Garage:	0 $feet^2$
Square Footage of Basement:	0 $feet^2$
Year addition(s) were added to the structure:	N/A

Building Value

Estimated replacement value: $ 70,700.00

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 foot^2: $ 70,703.76

Floodplain Information

Base Flood Elevation (BFE): 9

Design Flood Elevation (DFE): 12

If there is a freeboard requirement.

First Floor Elevation (FFE): 4.7

Lowest Horizontal Adjacent Member if a VE Zone House.

Lowest Adjacent Grade: 3.9

Total Feet First Floor is Being Raised: 7.3

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	
Oct 4, 2015			Structural from coastal flood event	$ 21,686.33	
Oct 28, 2012			Structure and contents from heavy rain flood	$ 34,174.97	
Aug 27, 2011			Structural from Hurricane Irene	$ 18,268.57	
Sep 25, 2008			Structural from flood event	$ 10,502.06	
Oct 8, 2006			Structure and contents from flood event	$ 8,163.29	
Sep 1, 2006			Structural from flash flood event	$ 13,899.68	
Sep 18, 2003			Structural from Hurricane Isabel	$ 15,248.24	
Jan 28, 1998			Structural from flood event	$ 1,484.26	

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, elevation certificates, 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 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	$ 100,000.00	No	$100,000.00
Foundation	Build new foundation; framing/construction of subfloor; insulation; construction of ingress/egress structures; reconnection of utilities.	1	Job	$ 150,000.00	No	$150,000.00
Construction Management Costs	Monitoring site; inspections by Engineer of Record; photo diary, field inspection reports	1	Job	$ 12,000.00	No	$12,000.00
Grand Total						**$308,000.00**

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)?	0.04 Acres
Is there a building 50 years old or older within or near the project area?	Yes
Year of Construction:	1952

Grant Application Worksheet #1 - 408 W Gilbert Street

Introduction

General

Category: Elevation (Acquisition Worksheet)

Site Name: 408 W Gilbert Street

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

Location

Location: Independent City of Hampton

Address: 408 W Gilbert St

City: Hampton

State: VA - Virginia

Zip Code: 23669

Latitude: 37.051991

In Decimal Format

Longitude: -76.355942

In Decimal Format

Legal Description:

Property Tax ID:

Flood Zone(s): Nothing Selected

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?	No
Have any insurance proceeds been received on this site, or are you anticipating any insurance proceeds?	Select One

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
Faynetta	Anderson-Jennings	408 W Gilbert St	Hampton	VA	23669

Contact Information:

fanderson24@cox.net
(757)746-6646

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 & Slab
Describe any sub-floor Utilities (if any):	N/A
Year Constructed:	1957
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):	SF00136382
NFIP RL Number (if insured):	RL203147
Number of stories above grade:	1 stories

Size and Use

Total square footage of main structure:	2988 feet^2
Living area square footage:	2988 feet^2
Square Footage of Porches:	0 feet^2
Square Footage of Decks:	0 feet^2

Square Footage of Attached Garage: 0 feet^2

Square Footage of Basement: 0 feet^2

Year addition(s) were added to the structure: Unknown

Building Value

Estimated replacement value: $ 298,800.00

Use RS Means or another documentable source.

Replacement Value Source: FEMA Default Value of $100/Sqft

Please attach supporting documentation.

Value per foot^2: $ 298,800.00

Floodplain Information

Base Flood Elevation (BFE): 8

Design Flood Elevation (DFE): 11

If there is a freeboard requirement.

First Floor Elevation (FFE): 5.4

Lowest Horizontal Adjacent Member if a VE Zone House.

Lowest Adjacent Grade: 4.6

Total Feet First Floor is Being Raised: 5.6

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:	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 26, 2011		1-2 ft i Crawl	Damage to	$ 10,054.82	
Nov 11, 2009		1-2 ft in house	Damage to HVAC/Ductwork, interior flooring, drywall, electrical, plumbing	$ 71,086.34	

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, elevation certificates, 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 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	$ 129,885.00	No	$129,885.00
Foundation	Build new foundation; framing/construction of subfloor; insulation; construction of ingress/egress structures; reconnection of utilities	1	Job	$ 303,065.00	No	$303,065.00
Construction Management Costs	Monitoring site; inspections by Engineer of Record; photo diary, field inspection reports	1	Job	$ 20,500.00	No	$20,500.00
Grand Total						**$499,450.00**

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)?	0.14 Acres
Is there a building 50 years old or older within or near the project area?	Yes
Year of Construction:	1957

Grant Application Worksheet #2 - 409 W Gilbert Street

Introduction

General

Category: Elevation (Acquisition Worksheet)

Site Name: 409 W Gilbert Street

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

Location

Location: Independent City of Hampton

Address: 409 W Gilbert St

City: Hampton

State: VA - Virginia

Zip Code: 23669

Latitude: 37.051575

In Decimal Format

Longitude: -76.35635

In Decimal Format

Legal Description: THE PASTURES L4.

Property Tax ID: 8005458

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#:	N/A
Repetitive Loss ID#:	191546
Flood Insurance Policy #:	18036496392022
Tax Map ID#:	08V002 00 00004
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
August, 2011 - Flood damages from Hurricane Irene	$ 16,444.06	Received
November, 2009 - damages from Nor'easter	$ 42,469.06	Received
Damages from Hurricane Isabel - 9/18/2003	$ 40,949.00	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
Paul	Holbrooks, Jr	409 W Gilbert St	Hampton	VA	23669
Catherine	Holbrooks	409 W Gilbert St	Hampton	VA	23669

Contact Information:

cholbrooks75@gmail.com
(757)303-7184

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 & Slab
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):	18036496392022
NFIP RL Number (if insured):	191546
Number of stories above grade:	1 stories

Size and Use

Total square footage of main structure:	1890 feet^2
Living area square footage:	1890 feet^2
Square Footage of Porches:	240 feet^2
Square Footage of Decks:	288 feet^2

Square Footage of Attached Garage: 0 feet^2

Square Footage of Basement: 0 feet^2

Year addition(s) were added to the structure: Unknown

Building Value

Estimated replacement value: $ 189,000.00

Use RS Means or another documentable source.

Replacement Value Source: FEMA Default BRV of $100/Sqft

Please attach supporting documentation.

Value per foot^2: $ 189,004.83

Floodplain Information

Base Flood Elevation (BFE): 8

Design Flood Elevation (DFE): 11

If there is a freeboard requirement.

First Floor Elevation (FFE): 5.3

Lowest Horizontal Adjacent Member if a VE Zone House.

Lowest Adjacent Grade: 5.1

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:	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 26, 2011			**Hurricane Irene - flood damages**	$ 16,444.06	
Nov 11, 2009			**Tropical Storm Ernesto - flood damages**	$ 42,469.06	
Sep 18, 2003			**Hurricane Isabel - flood damages**	$ 40,949.00	

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 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	$ 108,200.00	No	$108,200.00
Foundation	Build new foundation; framing/construction of subfloor; insulation; construction of ingress/egress structures; reconnection of utilities	1	Job	$ 240,800.00	No	$240,800.00
Construction Management Costs	Monitoring site; inspections by Engineer of Record; photo diary, field inspection reports	1	Job	$ 17,200.00	No	$17,200.00
Grand Total						**$412,200.00**

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 - 411 W Gilbert Street

Introduction

General

Category: Elevation (Acquisition Worksheet)

Site Name: 411 W Gilbert Street

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

Location

Location: Independent City of Hampton

Address: 411 W Gilbert St

City: Hampton

State: VA - Virginia

Zip Code: 23669

Latitude: 37.051649

In Decimal Format

Longitude: -76.356568

In Decimal Format

Legal Description: THE PASTURES L5.

Property Tax ID: 8005459

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#:	167753
Repetitive Loss ID#:	167753
Flood Insurance Policy #:	EZ400040457
Tax Map ID#:	08V002 00 00005
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
Flood damages from Hurricane Irene 8/27/2011	$ 13,238.14	Received
Damages from Nor'easter 11/11/2009	$ 102,296.77	Received
Damages from Nor'easter 11/22/2006	$ 9,760.06	Received
Damages from Flooding 10/6/2006	$ 25,328.08	Received
Damages from Hurricane Isabel 9/18/2003	$ 90,370.76	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
Renaldo	Devers	411 W Gilbert St	Hampton	VA	23669
Denine	Devers	411 W Gilbert St	Hampton	VA	23669

Contact Information:

deninedevers@yahoo.com
renaldodevers@yahoo.com
(757)631-3424

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 & 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 a part of project
NFIP Policy Number (if insured):	EZ400040457
NFIP RL Number (if insured):	167753
Number of stories above grade:	1 stories

Size and Use

Total square footage of main structure:	1596 feet^2
Living area square footage:	1596 feet^2
Square Footage of Porches:	0 feet^2
Square Footage of Decks:	0 feet^2

Square Footage of Attached Garage: 351 feet^2

Square Footage of Basement: 0 feet^2

Year addition(s) were added to the structure: Unknown

Building Value

Estimated replacement value: $ 159,600.00

Use RS Means or another documentable source.

Replacement Value Source: FEMA Default Value of $100/SQFT

Please attach supporting documentation.

Value per foot^2: $ 159,608.80

Floodplain Information

Base Flood Elevation (BFE): 8

Design Flood Elevation (DFE): 11

If there is a freeboard requirement.

First Floor Elevation (FFE): 5.24

Lowest Horizontal Adjacent Member if a VE Zone House.

Lowest Adjacent Grade: 4.46

Total Feet First Floor is Being Raised: 5.76

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			**Hurricane Irene - flood damages**	$ 13,238.14	
Nov 11, 2009			**Nor'easter - flood damages**	$ 102,296.77	
Nov 22, 2006			**Nor'easter - flood damages**	$ 9,760.06	
Oct 6, 2006			**Flood Event**	$ 25,328.08	
Sep 18, 2003			**Hurricane Isabel - flood damages**	$ 90,370.76	

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 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	$ 89,885.00	No	$89,885.00
Foundation	Build new foundation; framing/construction of subfloor; insulation; construction of ingress/egress structures; reconnection of utilities	1	Job	$ 198,065.00	No	$198,065.00
Construction Management Costs	Monitoring site; inspections by Engineer of Record; photo diary, field inspection reports	1	Job	$ 14,147.00	No	$14,147.00
Grand Total						**$348,097.00**

Historic Review

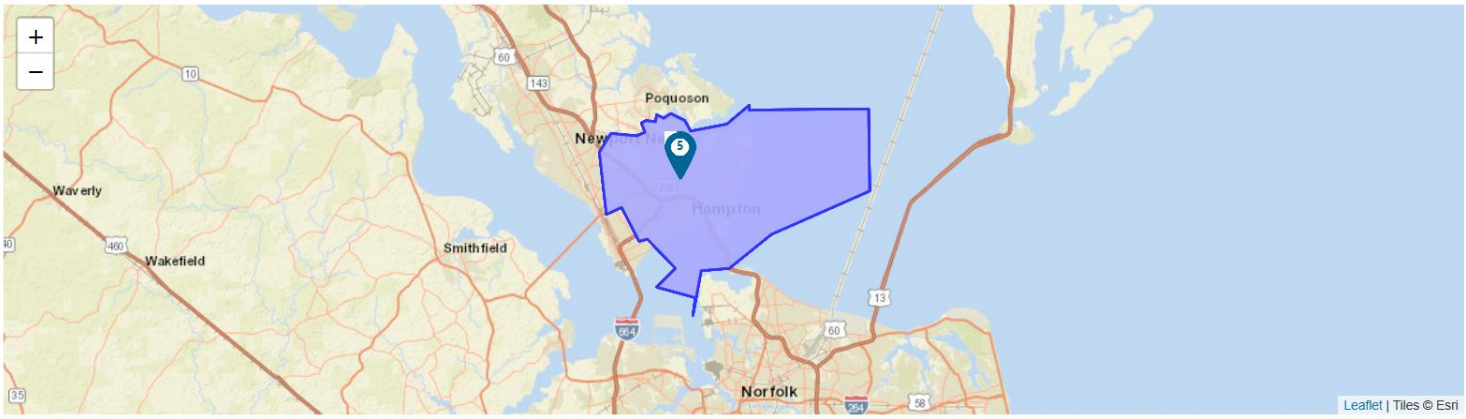
Has the ground at the project location been disturbed other than by agriculture?	No
To your knowledge, have Indian or historic artifacts been found on or adjacent to the project area?	No i.e. arrowheads, old bottles, square nails, etc.
What is the approximate size of the project area (acres)?	0.08 Acres
Is there a building 50 years old or older within or near the project area?	Yes
Year of Construction:	1956

Benefit-Cost Calculator

V.6.0 (Build 20220729.1959 | Release Notes)

Benefit-Cost Analysis

Project Name: Roane Drive & W Gilbert St Elevation Project



Map Marker ▲	Mitigation Title	Property Type	Hazard	Benefits (B)	Costs (C)	BCR (B/C)
1	Elevation @ 314 Roane Dr, Hampton, Virginia, 23669		Coastal A Flood	$ 105,356	$ 328,000	0.32
2	Elevation @ 406 Roane Dr, Hampton, Virginia, 23669		Coastal A Flood	$ 698,592	$ 328,000	2.13
3	Elevation @ 407 Roane Dr, Hampton, Virginia, 23669		Coastal A Flood	$ 1,828,496	$ 328,000	5.57
4	Elevation @ 408 Roane Dr, Hampton, Virginia, 23669		Coastal A Flood	$ 521,446	$ 328,000	1.59
5	Elevation @ 402 Roane Dr, Hampton, Virginia, 23669		Coastal A Flood	$ 389,605	$ 328,000	1.19
6	Elevation @ 408 W Gilbert St, Hampton, Virginia, 23669		Coastal A Flood	$ 2,141,110	$ 540,950	3.96
7	Elevation @ 409 W Gilbert St, Hampton, Virginia, 23669		Coastal A Flood	$ 1,288,862	$ 446,600	2.89
8	Elevation @ 411 W Gilbert St, Hampton, Virginia, 23669		Coastal A Flood	$ 1,162,940	$ 374,892	3.10
TOTAL (SELECTED)				$ 8,136,407	$ 3,002,442	2.71
TOTAL				$ 8,136,407	$ 3,002,442	2.71

Property Configuration

Property Title: Elevation @ 314 Roane Dr, Hampton, Virginia, 23669

Property Location: 23669, Hampton City, Virginia

Property Coordinates: 37.05062899135548, -76.3547179830981

Hazard Type: Coastal A Flood

Mitigation Action Type: Elevation

Property Type: Residential Building

Analysis Method Type: Modeled Damages

Cost Estimation

Elevation @ 314 Roane Dr, Hampton, Virginia, 23669

Project Useful Life (years): 30

Project Cost: $328,000

Number of Maintenance Years: 30 Use Default: Yes

Annual Maintenance Cost: $0

Comments

Project Useful Life:

Using FEMA Project Useful Life Table for Elevation

Hazard Probabilities Parameters - Flood

Elevation @ 314 Roane Dr, Hampton, Virginia, 23669

Lowest Floor Elevation of the Property (ft): 6.5

Ground Surface Elevation (ft): 5.5

Base Flood Elevation (ft): 8

Feet to Raise First Floor: 4.64

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

Use Default Recurrence Intervals: Use Default: Yes

Comments

Lowest Floor Elevation:

Height converted from NGVD 1929 to NAVD 1988 using NOAA's Vertical Datum Transformation v4.4.2

Stillwater Elevation

Elevation @ 314 Roane Dr, 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 @ 314 Roane Dr, 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: Slab

Building Has Basement: No

NFIP: Yes

Standard Benefits - Building

Elevation @ 314 Roane Dr, Hampton, Virginia, 23669

Depth Damage Curve: Expert Panel – SLAB Use Default: Yes

Building Size (sq.ft): 883

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: $5,771

Expected Annual Losses due to Building Damages after Mitigation: $187

Expected Annual Benefits - Building: $5,584

Depth Damage Curve - Building

Elevation @ 314 Roane Dr, Hampton, Virginia, 23669

	Before Mitigation				After Mitigation			
Flood Depth (ft)	Percent (%)	Damage Value ($)	NFIP ($)	ICC Fees ($)	Percent (%)	Damage Value ($)	NFIP ($)	ICC Fees ($)
-2	0	0	0	0	0	0	0	0
-1	0	0	0	0	0	0	0	0
0	12	11,871	1,275	0	0	0	0	0
1	25	23,825	1,750	0	0	0	0	0
2	50	92,827.69	3,677.69	850	0	0	0	0
3	75	93,278.02	4,128.02	850	0	0	0	0
4	100	93,400	4,250	850	0	0	0	0
5	100	93,400	4,250	850	12	11,871	1,275	0
6	100	93,400	4,250	850	25	23,825	1,750	0
7	100	93,400	4,250	850	50	92,827.69	3,677.69	850
8	100	93,400	4,250	850	75	93,278.02	4,128.02	850
9	100	93,400	4,250	850	100	93,400	4,250	850
10	100	93,400	4,250	850	100	93,400	4,250	850
11	100	93,400	4,250	850	100	93,400	4,250	850
12	100	93,400	4,250	850	100	93,400	4,250	850
13	100	93,400	4,250	850	100	93,400	4,250	850
14	100	93,400	4,250	850	100	93,400	4,250	850
15	100	93,400	4,250	850	100	93,400	4,250	850
16	100	93,400	4,250	850	100	93,400	4,250	850

Standard Benefits - Contents

Elevation @ 314 Roane Dr, Hampton, Virginia, 23669

Contents Value in Dollars: $0 Use Default: Yes

Utilities Elevated: Yes

Expected Annual Losses due to Content Damages before Mitigation: $2,520

Expected Annual Losses due to Content Damages after Mitigation: $93

Expected Annual Benefits - Content: $2,426

Depth Damage Curve - Contents

Elevation @ 314 Roane Dr, 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	10	4,415	0	0
1	30	13,245	0	0
2	45	19,867.5	0	0
3	75	33,112.5	0	0
4	100	44,150	0	0
5	100	44,150	10	4,415
6	100	44,150	30	13,245
7	100	44,150	45	19,867.5
8	100	44,150	75	33,112.5
9	100	44,150	100	44,150
10	100	44,150	100	44,150
11	100	44,150	100	44,150
12	100	44,150	100	44,150
13	100	44,150	100	44,150
14	100	44,150	100	44,150
15	100	44,150	100	44,150
16	100	44,150	100	44,150

Standard Benefits - Displacement

Elevation @ 314 Roane Dr, Hampton, Virginia, 23669

Lodging Per Diem: $96 Use Default: Yes

Meals Per Diem: $59 Use Default: Yes

Population Affected: 1

Total Residential Displacement Cost: $148

Expected Annual Losses due to Displacement Damages before mitigation: $137

Expected Annual Losses due to Displacement Damages after Mitigation: $4

Expected Annual Losses - Displacement: $133

Depth Damage Curve - Displacement

Elevation @ 314 Roane Dr, Hampton, Virginia, 23669

	Before Mitigation		After Mitigation	
Flood Depth (ft)	Days	Damage Value ($)	Days	Damage Value ($)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	120	17,760	0	0
2	360	53,280	0	0
3	540	79,920	0	0
4	720	106,560	0	0
5	720	106,560	0	0
6	720	106,560	120	17,760
7	720	106,560	360	53,280
8	720	106,560	540	79,920
9	720	106,560	720	106,560
10	720	106,560	720	106,560
11	720	106,560	720	106,560
12	720	106,560	720	106,560
13	720	106,560	720	106,560
14	720	106,560	720	106,560
15	720	106,560	720	106,560
16	720	106,560	720	106,560

Additional Benefits - Street Maintenance

Elevation @ 314 Roane Dr, 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 @ 314 Roane Dr, Hampton, Virginia, 23669

Number of Volunteers (volunteers/event): 0

Number of Days of Lodging: 0

Expected Annual Volunteer Benefits: $0

Benefits-Costs Summary

Elevation @ 314 Roane Dr, Hampton, Virginia, 23669

Total Standard Mitigation Benefits: $105,356

Total Social Benefits: $0

Total Mitigation Project Benefits: $105,356

Total Mitigation Project Cost: $328,000

Benefit Cost Ratio - Standard: 0.32

Benefit Cost Ratio - Standard + Social: 0.32

Property Configuration

Property Title: Elevation @ 406 Roane Dr, Hampton, Virginia, 23669

Property Location: 23669, Hampton City, Virginia

Property Coordinates: 37.051117991586736, -76.35647399181336

Hazard Type: Coastal A Flood

Mitigation Action Type: Elevation

Property Type: Residential Building

Analysis Method Type: Modeled Damages

Cost Estimation

Elevation @ 406 Roane Dr, Hampton, Virginia, 23669

Project Useful Life (years): 30

Project Cost: $328,000

Number of Maintenance Years: 30 Use Default: Yes

Annual Maintenance Cost: $0

Comments

Project Useful Life:

Using FEMA Project Useful Life Table for Elevation

Hazard Probabilities Parameters - Flood

Elevation @ 406 Roane Dr, Hampton, Virginia, 23669

Lowest Floor Elevation of the Property (ft): 5.2

Ground Surface Elevation (ft): 4.3

Base Flood Elevation (ft): 9

Feet to Raise First Floor: 6.7

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

Use Default Recurrence Intervals: Use Default: Yes

Stillwater Elevation

Elevation @ 406 Roane Dr, 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 @ 406 Roane Dr, 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: Slab

Building Has Basement: No

NFIP: Yes

Standard Benefits - Building

Elevation @ 406 Roane Dr, Hampton, Virginia, 23669

Depth Damage Curve: Expert Panel – SLAB Use Default: Yes

Building Size (sq.ft): 1,397

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: $37,724

Expected Annual Losses due to Building Damages after Mitigation: $296

Expected Annual Benefits - Building: $37,428

Depth Damage Curve - Building

Elevation @ 406 Roane Dr, Hampton, Virginia, 23669

	Before Mitigation				After Mitigation			
Flood Depth (ft)	Percent (%)	Damage Value ($)	NFIP ($)	ICC Fees ($)	Percent (%)	Damage Value ($)	NFIP ($)	ICC Fees ($)
-2	0	0	0	0	0	0	0	0
-1	0	0	0	0	0	0	0	0
0	12	18,039	1,275	0	0	0	0	0
1	25	36,824.92	1,899.92	0	0	0	0	0
2	50	144,999.44	4,449.44	850	0	0	0	0
3	75	145,544.27	4,994.27	850	0	0	0	0
4	100	145,998.3	5,448.3	850	0	0	0	0
5	100	145,998.3	5,448.3	850	0	0	0	0
6	100	145,998.3	5,448.3	850	0	0	0	0
7	100	145,998.3	5,448.3	850	12	18,039	1,275	0
8	100	145,998.3	5,448.3	850	25	36,824.92	1,899.92	0
9	100	145,998.3	5,448.3	850	50	144,999.44	4,449.44	850
10	100	145,998.3	5,448.3	850	75	145,544.27	4,994.27	850
11	100	145,998.3	5,448.3	850	100	145,998.3	5,448.3	850
12	100	145,998.3	5,448.3	850	100	145,998.3	5,448.3	850
13	100	145,998.3	5,448.3	850	100	145,998.3	5,448.3	850
14	100	145,998.3	5,448.3	850	100	145,998.3	5,448.3	850
15	100	145,998.3	5,448.3	850	100	145,998.3	5,448.3	850
16	100	145,998.3	5,448.3	850	100	145,998.3	5,448.3	850

Standard Benefits - Contents

Elevation @ 406 Roane Dr, Hampton, Virginia, 23669

Contents Value in Dollars: $0 Use Default: Yes

Utilities Elevated: Yes

Expected Annual Losses due to Content Damages before Mitigation: $16,180

Expected Annual Losses due to Content Damages after Mitigation: $148

Expected Annual Benefits - Content: $16,032

Depth Damage Curve - Contents

Elevation @ 406 Roane Dr, 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	10	6,985	0	0
1	30	20,955	0	0
2	45	31,432.5	0	0
3	75	52,387.5	0	0
4	100	69,850	0	0
5	100	69,850	0	0
6	100	69,850	0	0
7	100	69,850	10	6,985
8	100	69,850	30	20,955
9	100	69,850	45	31,432.5
10	100	69,850	75	52,387.5
11	100	69,850	100	69,850
12	100	69,850	100	69,850
13	100	69,850	100	69,850
14	100	69,850	100	69,850
15	100	69,850	100	69,850
16	100	69,850	100	69,850

Standard Benefits - Displacement

Elevation @ 406 Roane Dr, 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: $893

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

Expected Annual Losses - Displacement: $888

Depth Damage Curve - Displacement

Elevation @ 406 Roane Dr, Hampton, Virginia, 23669

	Before Mitigation		After Mitigation	
Flood Depth (ft)	Days	Damage Value ($)	Days	Damage Value ($)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	120	24,000	0	0
2	360	72,000	0	0
3	540	108,000	0	0
4	720	144,000	0	0
5	720	144,000	0	0
6	720	144,000	0	0
7	720	144,000	0	0
8	720	144,000	120	24,000
9	720	144,000	360	72,000
10	720	144,000	540	108,000
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 @ 406 Roane Dr, 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 @ 406 Roane Dr, Hampton, Virginia, 23669

Number of Volunteers (volunteers/event): 0

Number of Days of Lodging: 0

Expected Annual Volunteer Benefits: $0

Additional Benefits - Social

Elevation @ 406 Roane Dr, Hampton, Virginia, 23669

Number of Workers: 0

Expected Annual Social Benefits: $4,886

Benefits-Costs Summary

Elevation @ 406 Roane Dr, Hampton, Virginia, 23669

Total Standard Mitigation Benefits: $693,706

Total Social Benefits: $4,886

Total Mitigation Project Benefits: $698,592

Total Mitigation Project Cost: $328,000

Benefit Cost Ratio - Standard: 2.11

Benefit Cost Ratio - Standard + Social: 2.13

Property Configuration

Property Title: Elevation @ 407 Roane Dr, Hampton, Virginia, 23669

Property Location:23669, Hampton City, Virginia

Property Coordinates: 37.050696004671366, -76.35663400234497

Hazard Type: Coastal A Flood

Mitigation Action Type: Elevation

Property Type: Residential Building

Analysis Method Type: Modeled Damages

Cost Estimation

Elevation @ 407 Roane Dr, Hampton, Virginia, 23669

Project Useful Life (years): 30

Project Cost: $328,000

Number of Maintenance Years: 30 Use Default: Yes

Annual Maintenance Cost: $0

Comments

Project Useful Life:

Using FEMA Project Useful Life Table for Elevation

Hazard Probabilities Parameters - Flood

Elevation @ 407 Roane Dr, Hampton, Virginia, 23669

Lowest Floor Elevation of the Property (ft): 4.8

Ground Surface Elevation (ft): 3.7

Base Flood Elevation (ft): 9

Feet to Raise First Floor: 7.3

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

Use Default Recurrence Intervals: Use Default: Yes

Comments

Lowest Floor Elevation:

Vertical datum converted from NGVD 1929 to NAVD 1988 using NOAA's Vertical Datum Transformation tool v.4.4.2

Stillwater Elevation

Elevation @ 407 Roane Dr, 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 @ 407 Roane Dr, 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 @ 407 Roane Dr, Hampton, Virginia, 23669

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

Building Size (sq.ft): 1,363

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: $104,074

Expected Annual Losses due to Building Damages after Mitigation: $289

Expected Annual Benefits - Building: $103,786

Depth Damage Curve - Building

Elevation @ 407 Roane Dr, Hampton, Virginia, 23669

	Before Mitigation				After Mitigation			
Flood Depth (ft)	Percent (%)	Damage Value ($)	NFIP ($)	ICC Fees ($)	Percent (%)	Damage Value ($)	NFIP ($)	ICC Fees ($)
-2	2	3,526	800	0	0	0	0	0
-1	10	14,805	1,175	0	0	0	0	0
0	35	49,790.39	2,085.39	0	0	0	0	0
1	75	142,022.72	4,872.72	850	0	0	0	0
2	100	142,465.7	5,315.7	850	0	0	0	0
3	100	142,465.7	5,315.7	850	0	0	0	0
4	100	142,465.7	5,315.7	850	0	0	0	0
5	100	142,465.7	5,315.7	850	0	0	0	0
6	100	142,465.7	5,315.7	850	0	0	0	0
7	100	142,465.7	5,315.7	850	0	0	0	0
8	100	142,465.7	5,315.7	850	35	49,790.39	2,085.39	0
9	100	142,465.7	5,315.7	850	75	142,022.72	4,872.72	850
10	100	142,465.7	5,315.7	850	100	142,465.7	5,315.7	850
11	100	142,465.7	5,315.7	850	100	142,465.7	5,315.7	850
12	100	142,465.7	5,315.7	850	100	142,465.7	5,315.7	850

	Before Mitigation				After Mitigation			
Flood Depth (ft)	Percent (%)	Damage Value ($)	NFIP ($)	ICC Fees ($)	Percent (%)	Damage Value ($)	NFIP ($)	ICC Fees ($)
13	100	142,465.7	5,315.7	850	100	142,465.7	5,315.7	850
14	100	142,465.7	5,315.7	850	100	142,465.7	5,315.7	850
15	100	142,465.7	5,315.7	850	100	142,465.7	5,315.7	850
16	100	142,465.7	5,315.7	850	100	142,465.7	5,315.7	850

Standard Benefits - Contents

Elevation @ 407 Roane Dr, Hampton, Virginia, 23669

Contents Value in Dollars: $0 Use Default: Yes

Utilities Elevated: Yes

Expected Annual Losses due to Content Damages before Mitigation: $35,178

Expected Annual Losses due to Content Damages after Mitigation: $144

Expected Annual Benefits - Content: $35,034

Depth Damage Curve - Contents

Elevation @ 407 Roane Dr, 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	13,630	0	0
1	75	51,112.5	0	0
2	100	68,150	0	0
3	100	68,150	0	0
4	100	68,150	0	0
5	100	68,150	0	0
6	100	68,150	0	0
7	100	68,150	0	0
8	100	68,150	20	13,630
9	100	68,150	75	51,112.5
10	100	68,150	100	68,150

	Before Mitigation		After Mitigation	
Flood Depth (ft)	Percent (%)	Damage Value ($)	Percent (%)	Damage Value ($)
11	100	68,150	100	68,150
12	100	68,150	100	68,150
13	100	68,150	100	68,150
14	100	68,150	100	68,150
15	100	68,150	100	68,150
16	100	68,150	100	68,150

Standard Benefits - Displacement

Elevation @ 407 Roane Dr, 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: $2,391

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

Expected Annual Losses - Displacement: $2,386

Depth Damage Curve - Displacement

Elevation @ 407 Roane Dr, Hampton, Virginia, 23669

	Before Mitigation		After Mitigation	
Flood Depth (ft)	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	0	0
7	720	144,000	0	0

	Before Mitigation		After Mitigation	
Flood Depth (ft)	Days	Damage Value ($)	Days	Damage Value ($)
8	720	144,000	120	24,000
9	720	144,000	540	108,000
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 @ 407 Roane Dr, 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 @ 407 Roane Dr, Hampton, Virginia, 23669

Number of Volunteers (volunteers/event): 0

Number of Days of Lodging: 0

Expected Annual Volunteer Benefits: $0

Additional Benefits - Social

Elevation @ 407 Roane Dr, Hampton, Virginia, 23669

Number of Workers: 0

Expected Annual Social Benefits: $4,886

Benefits-Costs Summary

Elevation @ 407 Roane Dr, Hampton, Virginia, 23669

Total Standard Mitigation Benefits: $1,823,610

Total Social Benefits: $4,886

Total Mitigation Project Benefits: $1,828,496

Total Mitigation Project Cost: $328,000

Benefit Cost Ratio - Standard: 5.56

Benefit Cost Ratio - Standard + Social: 5.57

Property Configuration

Property Title: Elevation @ 408 Roane Dr, Hampton, Virginia, 23669

Property Location: 23669, Hampton City, Virginia

Property Coordinates: 37.051172012952705, -76.35665898041644

Hazard Type: Coastal A Flood

Mitigation Action Type: Elevation

Property Type: Residential Building

Analysis Method Type: Modeled Damages

Cost Estimation

Elevation @ 408 Roane Dr, Hampton, Virginia, 23669

Project Useful Life (years):30

Project Cost: $328,000

Number of Maintenance Years:30Use Default: Yes

Annual Maintenance Cost: $0

Comments

Project Useful Life:

Using FEMA Project Useful Life Table for Elevation.

Hazard Probabilities Parameters - Flood

Elevation @ 408 Roane Dr, Hampton, Virginia, 23669

Lowest Floor Elevation of the Property (ft): 4.7

Ground Surface Elevation (ft): 3.9

Base Flood Elevation (ft): 9

Feet to Raise First Floor: 7.3

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

Use Default Recurrence Intervals: Use Default: Yes

Stillwater Elevation

Elevation @ 408 Roane Dr, 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 @ 408 Roane Dr, 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: Slab

Building Has Basement: No

NFIP: Yes

Standard Benefits - Building

Elevation @ 408 Roane Dr, Hampton, Virginia, 23669

Depth Damage Curve: Expert Panel – SLAB Use Default: Yes

Building Size (sq.ft): 707

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: $27,607

Expected Annual Losses due to Building Damages after Mitigation: $150

Expected Annual Benefits - Building: $27,458

Depth Damage Curve - Building

Elevation @ 408 Roane Dr, Hampton, Virginia, 23669

	Before Mitigation				After Mitigation			
Flood Depth (ft)	Percent (%)	Damage Value ($)	NFIP ($)	ICC Fees ($)	Percent (%)	Damage Value ($)	NFIP ($)	ICC Fees ($)
-2	0	0	0	0	0	0	0	0
-1	0	0	0	0	0	0	0	0
0	12	9,659	1,175	0	0	0	0	0
1	25	19,150	1,475	0	0	0	0	0
2	50	74,494.65	2,944.65	850	0	0	0	0
3	75	74,855.22	3,305.22	850	0	0	0	0
4	100	75,155.7	3,605.70	850	0	0	0	0
5	100	75,155.7	3,605.70	850	0	0	0	0
6	100	75,155.7	3,605.70	850	0	0	0	0
7	100	75,155.7	3,605.70	850	0	0	0	0
8	100	75,155.7	3,605.70	850	12	9,659	1,175	0
9	100	75,155.7	3,605.70	850	25	19,150	1,475	0
10	100	75,155.7	3,605.70	850	50	74,494.65	2,944.65	850
11	100	75,155.7	3,605.70	850	75	74,855.22	3,305.22	850
12	100	75,155.7	3,605.70	850	100	75,155.7	3,605.70	850
13	100	75,155.7	3,605.70	850	100	75,155.7	3,605.70	850
14	100	75,155.7	3,605.70	850	100	75,155.7	3,605.70	850
15	100	75,155.7	3,605.70	850	100	75,155.7	3,605.70	850
16	100	75,155.7	3,605.70	850	100	75,155.7	3,605.70	850

Standard Benefits - Contents

Elevation @ 408 Roane Dr, Hampton, Virginia, 23669

Contents Value in Dollars: $0 Use Default: Yes

Utilities Elevated: Yes

Expected Annual Losses due to Content Damages before Mitigation: $11,306

Expected Annual Losses due to Content Damages after Mitigation: $75

Expected Annual Benefits - Content: $11,232

Depth Damage Curve - Contents

Elevation @ 408 Roane Dr, 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	10	3,535	0	0
1	30	10,605	0	0
2	45	15,907.5	0	0
3	75	26,512.5	0	0
4	100	35,350	0	0
5	100	35,350	0	0
6	100	35,350	0	0
7	100	35,350	0	0
8	100	35,350	10	3,535
9	100	35,350	30	10,605
10	100	35,350	45	15,907.5
11	100	35,350	75	26,512.5
12	100	35,350	100	35,350
13	100	35,350	100	35,350
14	100	35,350	100	35,350
15	100	35,350	100	35,350
16	100	35,350	100	35,350

Standard Benefits - Displacement

Elevation @ 408 Roane Dr, 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: $1,169

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

Expected Annual Losses - Displacement: $1,164

Depth Damage Curve - Displacement

Elevation @ 408 Roane Dr, Hampton, Virginia, 23669

	Before Mitigation		After Mitigation	
Flood Depth (ft)	Days	Damage Value ($)	Days	Damage Value ($)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	120	24,000	0	0
2	360	72,000	0	0
3	540	108,000	0	0
4	720	144,000	0	0
5	720	144,000	0	0
6	720	144,000	0	0
7	720	144,000	0	0
8	720	144,000	0	0
9	720	144,000	120	24,000
10	720	144,000	360	72,000
11	720	144,000	540	108,000
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 @ 408 Roane Dr, 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 @ 408 Roane Dr, Hampton, Virginia, 23669

Number of Volunteers (volunteers/event): 0

Number of Days of Lodging: 0

Expected Annual Volunteer Benefits: $0

Additional Benefits - Social

Elevation @ 408 Roane Dr, Hampton, Virginia, 23669

Number of Workers: 0

Expected Annual Social Benefits: $4,886

Benefits-Costs Summary

Elevation @ 408 Roane Dr, Hampton, Virginia, 23669

Total Standard Mitigation Benefits: $516,560

Total Social Benefits: $4,886

Total Mitigation Project Benefits: $521,446

Total Mitigation Project Cost: $328,000

Benefit Cost Ratio - Standard: 1.57

Benefit Cost Ratio - Standard + Social: 1.59

Property Configuration

Property Title: Elevation @ 402 Roane Dr, Hampton, Virginia, 23669

Property Location: 23669, Hampton City, Virginia

Property Coordinates: 37.0509830010361, -76.35609202848565

Hazard Type: Coastal A Flood

Mitigation Action Type: Elevation

Property Type: Residential Building

Analysis Method Type: Modeled Damages

Cost Estimation

Elevation @ 402 Roane Dr, Hampton, Virginia, 23669

Project Useful Life (years): 30

Project Cost: $328,000

Number of Maintenance Years: 30 Use Default: Yes

Annual Maintenance Cost: $0

Hazard Probabilities Parameters - Flood

Elevation @ 402 Roane Dr, Hampton, Virginia, 23669

Lowest Floor Elevation of the Property (ft): 5.5

Ground Surface Elevation (ft): 4.7

Base Flood Elevation (ft): 9

Feet to Raise First Floor: 6.5

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

Use Default Recurrence Intervals: Use Default: Yes

Stillwater Elevation

Elevation @ 402 Roane Dr, 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 @ 402 Roane Dr, 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: Slab

Building Has Basement: No

NFIP: Yes

Standard Benefits - Building

Elevation @ 402 Roane Dr, Hampton, Virginia, 23669

Depth Damage Curve: Expert Panel – SLAB Use Default: Yes

Building Size (sq.ft): 883

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: $20,983

Expected Annual Losses due to Building Damages after Mitigation: $187

Expected Annual Benefits - Building: $20,796

Depth Damage Curve - Building

Elevation @ 402 Roane Dr, Hampton, Virginia, 23669

	Before Mitigation				After Mitigation			
Flood Depth (ft)	Percent (%)	Damage Value ($)	NFIP ($)	ICC Fees ($)	Percent (%)	Damage Value ($)	NFIP ($)	ICC Fees ($)
-2	0	0	0	0	0	0	0	0
-1	0	0	0	0	0	0	0	0
0	12	11,871	1,275	0	0	0	0	0
1	25	23,825	1,750	0	0	0	0	0
2	50	92,827.69	3,677.69	850	0	0	0	0
3	75	93,278.02	4,128.02	850	0	0	0	0
4	100	93,400	4,250	850	0	0	0	0
5	100	93,400	4,250	850	0	0	0	0
6	100	93,400	4,250	850	0	0	0	0
7	100	93,400	4,250	850	12	11,871	1,275	0
8	100	93,400	4,250	850	25	23,825	1,750	0
9	100	93,400	4,250	850	50	92,827.69	3,677.69	850
10	100	93,400	4,250	850	75	93,278.02	4,128.02	850
11	100	93,400	4,250	850	100	93,400	4,250	850
12	100	93,400	4,250	850	100	93,400	4,250	850
13	100	93,400	4,250	850	100	93,400	4,250	850
14	100	93,400	4,250	850	100	93,400	4,250	850
15	100	93,400	4,250	850	100	93,400	4,250	850
16	100	93,400	4,250	850	100	93,400	4,250	850

Standard Benefits - Contents

Elevation @ 402 Roane Dr, Hampton, Virginia, 23669

Contents Value in Dollars: $0 Use Default: Yes

Utilities Elevated: Yes

Expected Annual Losses due to Content Damages before Mitigation: $8,333

Expected Annual Losses due to Content Damages after Mitigation: $93

Expected Annual Benefits - Content: $8,239

Depth Damage Curve - Contents

Elevation @ 402 Roane Dr, 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	10	4,415	0	0
1	30	13,245	0	0
2	45	19,867.5	0	0
3	75	33,112.5	0	0
4	100	44,150	0	0
5	100	44,150	0	0
6	100	44,150	0	0
7	100	44,150	10	4,415
8	100	44,150	30	13,245
9	100	44,150	45	19,867.5
10	100	44,150	75	33,112.5
11	100	44,150	100	44,150
12	100	44,150	100	44,150
13	100	44,150	100	44,150
14	100	44,150	100	44,150
15	100	44,150	100	44,150
16	100	44,150	100	44,150

Standard Benefits - Displacement

Elevation @ 402 Roane Dr, 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: $674

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

Expected Annual Losses - Displacement: $669

Depth Damage Curve - Displacement

Elevation @ 402 Roane Dr, Hampton, Virginia, 23669

	Before Mitigation		After Mitigation	
Flood Depth (ft)	Days	Damage Value ($)	Days	Damage Value ($)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	120	24,000	0	0
2	360	72,000	0	0
3	540	108,000	0	0
4	720	144,000	0	0
5	720	144,000	0	0
6	720	144,000	0	0
7	720	144,000	0	0
8	720	144,000	120	24,000
9	720	144,000	360	72,000
10	720	144,000	540	108,000
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 @ 402 Roane Dr, 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 @ 402 Roane Dr, Hampton, Virginia, 23669

Number of Volunteers (volunteers/event): 0

Number of Days of Lodging: 0

Expected Annual Volunteer Benefits: $0

Additional Benefits - Social

Elevation @ 402 Roane Dr, Hampton, Virginia, 23669

Number of Workers: 0

Expected Annual Social Benefits: $4,886

Benefits-Costs Summary

Elevation @ 402 Roane Dr, Hampton, Virginia, 23669

Total Standard Mitigation Benefits: $384,719

Total Social Benefits: $4,886

Total Mitigation Project Benefits: $389,605

Total Mitigation Project Cost: $328,000

Benefit Cost Ratio - Standard: 1.17

Benefit Cost Ratio - Standard + Social: 1.19

Property Configuration

Property Title: Elevation @ 408 W Gilbert St, Hampton, Virginia, 23669

Property Location: 23669, Hampton City, Virginia

Property Coordinates: 37.05199100871198, -76.3559429982472

Hazard Type: Coastal A Flood

Mitigation Action Type: Elevation

Property Type: Residential Building

Analysis Method Type: Modeled Damages

Cost Estimation

Elevation @ 408 W Gilbert St, Hampton, Virginia, 23669

Project Useful Life (years):30

Project Cost: $540,950

Number of Maintenance Years:30Use Default: Yes

Annual Maintenance Cost: $0

Comments

Project Useful Life:

Using FEMA Project Useful Life Table

Hazard Probabilities Parameters - Flood

Elevation @ 408 W Gilbert St, Hampton, Virginia, 23669

Lowest Floor Elevation of the Property (ft): 5.4

Ground Surface Elevation (ft): 4.6

Base Flood Elevation (ft): 8

Feet to Raise First Floor: 5.6

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

Use Default Recurrence Intervals: Use Default: Yes

Stillwater Elevation

Elevation @ 408 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 @ 408 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 @ 408 W Gilbert St, Hampton, Virginia, 23669

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

Building Size (sq.ft): 2,988

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: $125,874

Expected Annual Losses due to Building Damages after Mitigation: $633

Expected Annual Benefits - Building: $125,241

Depth Damage Curve - Building

Elevation @ 408 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	7,011	1,035	0	0	0	0	0
-1	10	31,355	1,475	0	0	0	0	0
0	35	108,830	4,250	0	0	0	0	0
1	75	309,510.4	9,860.4	850	0	0	0	0
2	100	310,406.8	10,756.80	850	0	0	0	0
3	100	310,406.8	10,756.80	850	0	0	0	0
4	100	310,406.8	10,756.80	850	0	0	0	0
5	100	310,406.8	10,756.80	850	0	0	0	0
6	100	310,406.8	10,756.80	850	35	108,830	4,250	0
7	100	310,406.8	10,756.80	850	75	309,510.4	9,860.4	850
8	100	310,406.8	10,756.80	850	100	310,406.8	10,756.80	850
9	100	310,406.8	10,756.80	850	100	310,406.8	10,756.80	850
10	100	310,406.8	10,756.80	850	100	310,406.8	10,756.80	850
11	100	310,406.8	10,756.80	850	100	310,406.8	10,756.80	850
12	100	310,406.8	10,756.80	850	100	310,406.8	10,756.80	850
13	100	310,406.8	10,756.80	850	100	310,406.8	10,756.80	850
14	100	310,406.8	10,756.80	850	100	310,406.8	10,756.80	850
15	100	310,406.8	10,756.80	850	100	310,406.8	10,756.80	850

	Before Mitigation				After Mitigation			
Flood Depth (ft)	Percent (%)	Damage Value ($)	NFIP ($)	ICC Fees ($)	Percent (%)	Damage Value ($)	NFIP ($)	ICC Fees ($)
16	100	310,406.8	10,756.80	850	100	310,406.8	10,756.80	850

Standard Benefits - Contents

Elevation @ 408 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: $40,420

Expected Annual Losses due to Content Damages after Mitigation: $316

Expected Annual Benefits - Content: $40,103

Depth Damage Curve - Contents

Elevation @ 408 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	29,880	0	0
1	75	112,050	0	0
2	100	149,400	0	0
3	100	149,400	0	0
4	100	149,400	0	0
5	100	149,400	0	0
6	100	149,400	20	29,880
7	100	149,400	75	112,050
8	100	149,400	100	149,400
9	100	149,400	100	149,400
10	100	149,400	100	149,400
11	100	149,400	100	149,400
12	100	149,400	100	149,400
13	100	149,400	100	149,400

	Before Mitigation		After Mitigation	
Flood Depth (ft)	Percent (%)	Damage Value ($)	Percent (%)	Damage Value ($)
14	100	149,400	100	149,400
15	100	149,400	100	149,400
16	100	149,400	100	149,400

Standard Benefits - Displacement

Elevation @ 408 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: $1,232

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

Expected Annual Losses - Displacement: $1,227

Depth Damage Curve - Displacement

Elevation @ 408 W Gilbert St, Hampton, Virginia, 23669

	Before Mitigation		After Mitigation	
Flood Depth (ft)	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

	Before Mitigation		After Mitigation	
Flood Depth (ft)	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 @ 408 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 @ 408 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 @ 408 W Gilbert St, Hampton, Virginia, 23669

Number of Workers: 0

Expected Annual Social Benefits: $4,886

Benefits-Costs Summary

Elevation @ 408 W Gilbert St, Hampton, Virginia, 23669

Total Standard Mitigation Benefits: $2,136,224

Total Social Benefits: $4,886

Total Mitigation Project Benefits: $2,141,110

Total Mitigation Project Cost: $540,950

Benefit Cost Ratio - Standard: 3.95

Benefit Cost Ratio - Standard + Social: 3.96

Property Configuration

Property Title: Elevation @ 409 W Gilbert St, Hampton, Virginia, 23669

Property Location: 23669, Hampton City, Virginia

Property Coordinates: 37.05157501485738, -76.3563500234654

Hazard Type: Coastal A Flood

Mitigation Action Type: Elevation

Property Type: Residential Building

Analysis Method Type: Modeled Damages

Cost Estimation

Elevation @ 409 W Gilbert St, Hampton, Virginia, 23669

Project Useful Life (years):30

Project Cost: $446,600

Number of Maintenance Years:30Use Default: Yes

Annual Maintenance Cost: $0

Comments

Project Useful Life:

Using FEMA Project Useful Life Table

Hazard Probabilities Parameters - Flood

Elevation @ 409 W Gilbert St, Hampton, Virginia, 23669

Lowest Floor Elevation of the Property (ft): 5.5

Ground Surface Elevation (ft): 5.2

Base Flood Elevation (ft): 8

Feet to Raise First Floor: 5.5

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

Use Default Recurrence Intervals: Use Default: Yes

Comments

Lowest Floor Elevation:

Height converted from NGVD 1929 to NAVD 1988 using NOAA's Vertical Datum Transformation v4.4.2

Stillwater Elevation

Elevation @ 409 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 @ 409 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 @ 409 W Gilbert St, Hampton, Virginia, 23669

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

Building Size (sq.ft): 1,890

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

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

Expected Annual Losses due to Building Damages before Mitigation: $74,768

Expected Annual Losses due to Building Damages after Mitigation: $400

Expected Annual Benefits - Building: $74,367

Depth Damage Curve - Building

Elevation @ 409 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	4,580	800	0	0	0	0	0
-1	10	20,175	1,275	0	0	0	0	0
0	35	69,041.7	2,891.70	0	0	0	0	0
1	75	196,606.75	6,756.75	850	0	0	0	0
2	100	197,221	7,371	850	0	0	0	0
3	100	197,221	7,371	850	0	0	0	0
4	100	197,221	7,371	850	0	0	0	0
5	100	197,221	7,371	850	0	0	0	0
6	100	197,221	7,371	850	35	69,041.7	2,891.70	0
7	100	197,221	7,371	850	75	196,606.75	6,756.75	850
8	100	197,221	7,371	850	100	197,221	7,371	850
9	100	197,221	7,371	850	100	197,221	7,371	850
10	100	197,221	7,371	850	100	197,221	7,371	850
11	100	197,221	7,371	850	100	197,221	7,371	850
12	100	197,221	7,371	850	100	197,221	7,371	850
13	100	197,221	7,371	850	100	197,221	7,371	850
14	100	197,221	7,371	850	100	197,221	7,371	850
15	100	197,221	7,371	850	100	197,221	7,371	850
16	100	197,221	7,371	850	100	197,221	7,371	850

Standard Benefits - Contents

Elevation @ 409 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: $24,220

Expected Annual Losses due to Content Damages after Mitigation: $200

Expected Annual Benefits - Content: $24,019

Depth Damage Curve - Contents

Elevation @ 409 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	18,900	0	0
1	75	70,875	0	0
2	100	94,500	0	0
3	100	94,500	0	0
4	100	94,500	0	0
5	100	94,500	0	0
6	100	94,500	20	18,900
7	100	94,500	75	70,875
8	100	94,500	100	94,500
9	100	94,500	100	94,500
10	100	94,500	100	94,500
11	100	94,500	100	94,500
12	100	94,500	100	94,500
13	100	94,500	100	94,500
14	100	94,500	100	94,500
15	100	94,500	100	94,500
16	100	94,500	100	94,500

Standard Benefits - Displacement

Elevation @ 409 W Gilbert St, Hampton, Virginia, 23669

Lodging Per Diem: $96 Use Default: Yes

Meals Per Diem: $59Use Default: Yes

Population Affected: 2

Total Residential Displacement Cost: $200

Expected Annual Losses due to Displacement Damages before mitigation: $1,166

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

Expected Annual Losses - Displacement: $1,161

Depth Damage Curve - Displacement

Elevation @ 409 W Gilbert St, Hampton, Virginia, 23669

	Before Mitigation		After Mitigation	
Flood Depth (ft)	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 @ 409 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 @ 409 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 @ 409 W Gilbert St, Hampton, Virginia, 23669

Number of Workers: 0

Expected Annual Social Benefits: $4,886

Benefits-Costs Summary

Elevation @ 409 W Gilbert St, Hampton, Virginia, 23669

Total Standard Mitigation Benefits: $1,283,976

Total Social Benefits: $4,886

Total Mitigation Project Benefits: $1,288,862

Total Mitigation Project Cost: $446,600

Benefit Cost Ratio - Standard: 2.88

Benefit Cost Ratio - Standard + Social: 2.89

Property Configuration

Property Title: Elevation @ 411 W Gilbert St, Hampton, Virginia, 23669

Property Location: 23669, Hampton City, Virginia

Property Coordinates: 37.051648985152894, -76.35656803676698

Hazard Type: Coastal A Flood

Mitigation Action Type: Elevation

Property Type: Residential Building

Analysis Method Type: Modeled Damages

Cost Estimation

Elevation @ 411 W Gilbert St, Hampton, Virginia, 23669

Project Useful Life (years):30

Project Cost: $374,892

Number of Maintenance Years:30Use Default:Yes

Annual Maintenance Cost: $0

Comments

Project Useful Life:

Using FEMA Project Useful Life Table

Hazard Probabilities Parameters - Flood

Elevation @ 411 W Gilbert St, Hampton, Virginia, 23669

Lowest Floor Elevation of the Property (ft): 5.4

Ground Surface Elevation (ft): 4.6

Base Flood Elevation (ft): 8

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:

Height converted from NGVD 1929 to NAVD 1988 using NOAA's Vertical Datum Transformation tool v4.4.2

Stillwater Elevation

Elevation @ 411 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 @ 411 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 @ 411 W Gilbert St, Hampton, Virginia, 23669

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

Building Size (sq.ft): 1,596

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: $67,234

Expected Annual Losses due to Building Damages after Mitigation: $338

Expected Annual Benefits - Building: $66,896

Depth Damage Curve - Building

Elevation @ 411 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	3,992	800	0	0	0	0	0
-1	10	17,235	1,275	0	0	0	0	0
0	35	58,301.88	2,441.88	0	0	0	0	0
1	75	166,155.7	5,705.7	850	0	0	0	0
2	100	166,674.4	6,224.4	850	0	0	0	0
3	100	166,674.4	6,224.4	850	0	0	0	0
4	100	166,674.4	6,224.4	850	0	0	0	0
5	100	166,674.4	6,224.4	850	0	0	0	0
6	100	166,674.4	6,224.4	850	35	58,301.88	2,441.88	0
7	100	166,674.4	6,224.4	850	75	166,155.7	5,705.7	850
8	100	166,674.4	6,224.4	850	100	166,674.4	6,224.4	850
9	100	166,674.4	6,224.4	850	100	166,674.4	6,224.4	850
10	100	166,674.4	6,224.4	850	100	166,674.4	6,224.4	850
11	100	166,674.4	6,224.4	850	100	166,674.4	6,224.4	850
12	100	166,674.4	6,224.4	850	100	166,674.4	6,224.4	850
13	100	166,674.4	6,224.4	850	100	166,674.4	6,224.4	850
14	100	166,674.4	6,224.4	850	100	166,674.4	6,224.4	850
15	100	166,674.4	6,224.4	850	100	166,674.4	6,224.4	850
16	100	166,674.4	6,224.4	850	100	166,674.4	6,224.4	850

Standard Benefits - Contents

Elevation @ 411 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: $21,590

Expected Annual Losses due to Content Damages after Mitigation: $169

Expected Annual Benefits - Content: $21,421

Depth Damage Curve - Contents

Elevation @ 411 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	15,960	0	0
1	75	59,850	0	0
2	100	79,800	0	0
3	100	79,800	0	0
4	100	79,800	0	0
5	100	79,800	0	0
6	100	79,800	20	15,960
7	100	79,800	75	59,850
8	100	79,800	100	79,800
9	100	79,800	100	79,800
10	100	79,800	100	79,800
11	100	79,800	100	79,800
12	100	79,800	100	79,800
13	100	79,800	100	79,800
14	100	79,800	100	79,800
15	100	79,800	100	79,800
16	100	79,800	100	79,800

Standard Benefits - Displacement

Elevation @ 411 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: $1,232

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

Expected Annual Losses - Displacement: $1,227

Depth Damage Curve - Displacement

Elevation @ 411 W Gilbert St, Hampton, Virginia, 23669

	Before Mitigation		After Mitigation	
Flood Depth (ft)	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 @ 411 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 @ 411 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 @ 411 W Gilbert St, Hampton, Virginia, 23669

Number of Workers: 0

Expected Annual Social Benefits: $4,886

Benefits-Costs Summary

Elevation @ 411 W Gilbert St, Hampton, Virginia, 23669

Total Standard Mitigation Benefits: $1,158,054

Total Social Benefits: $4,886

Total Mitigation Project Benefits: $1,162,940

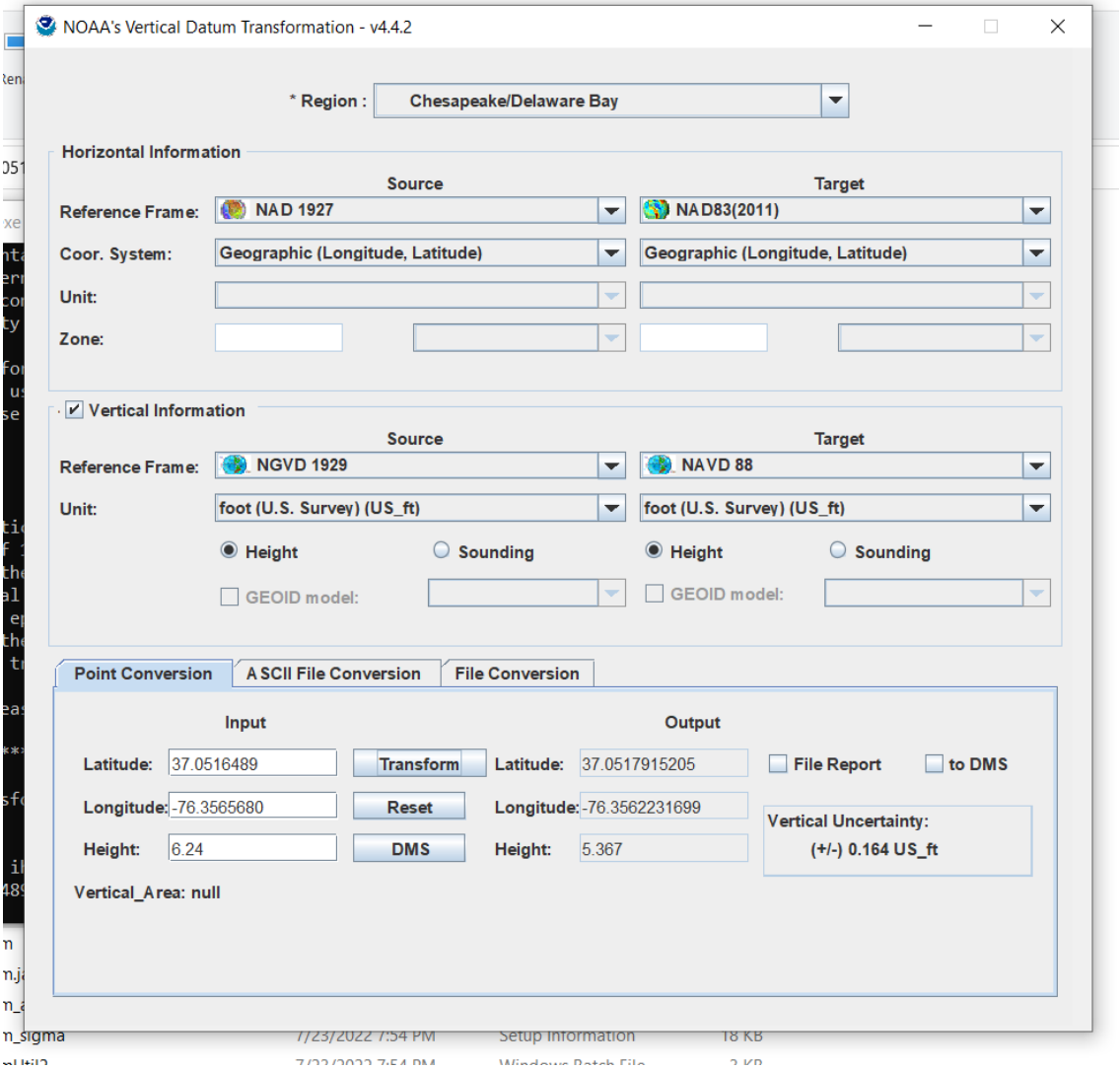
Total Mitigation Project Cost: $374,892

Benefit Cost Ratio - Standard: 3.09

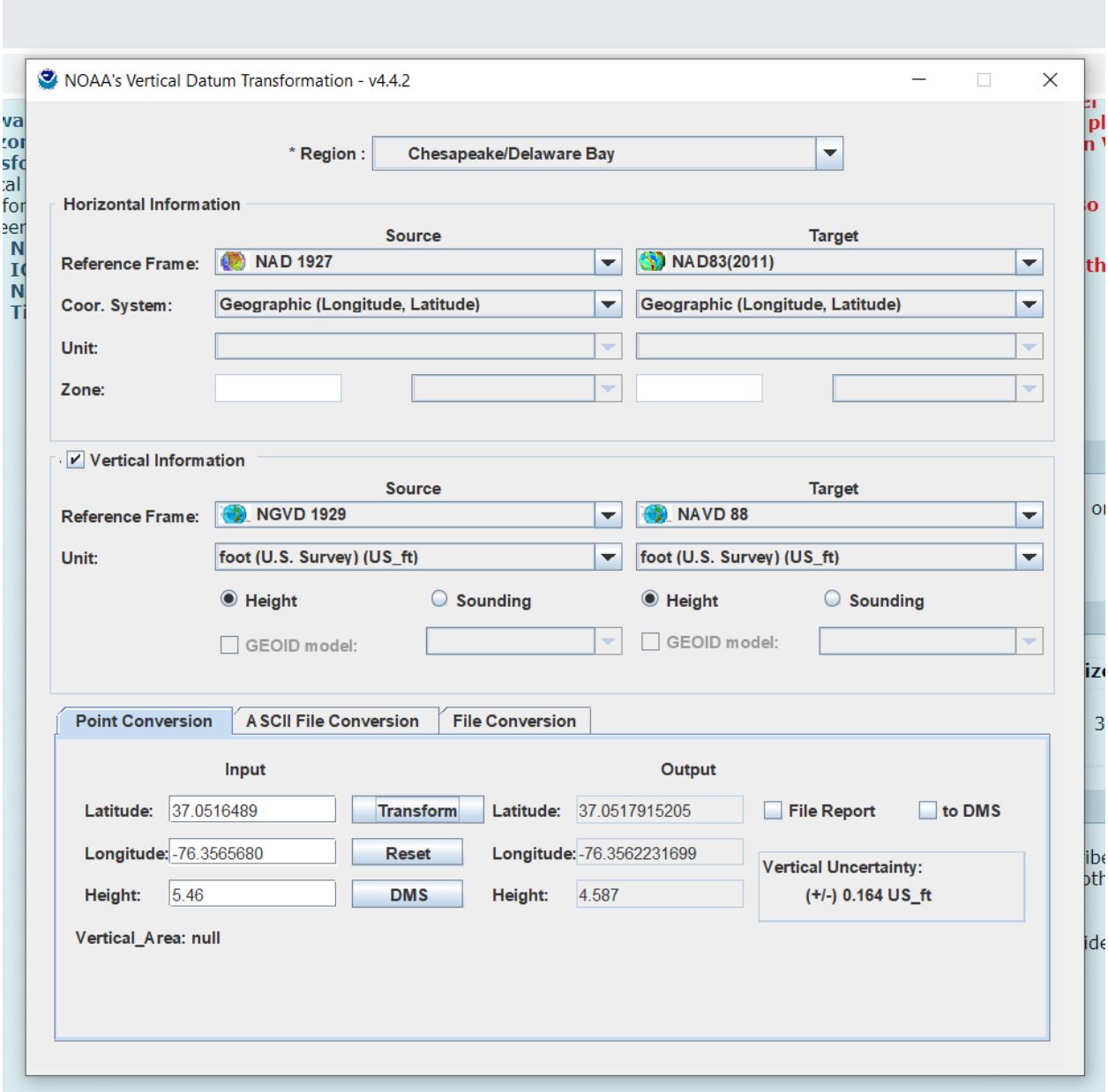
Benefit Cost Ratio - Standard + Social: 3.10

VERTICAL DATUM CONVERSION FOR 411 W GILBERT ST

LOWEST FINISHED FLOOR CONVERSION:

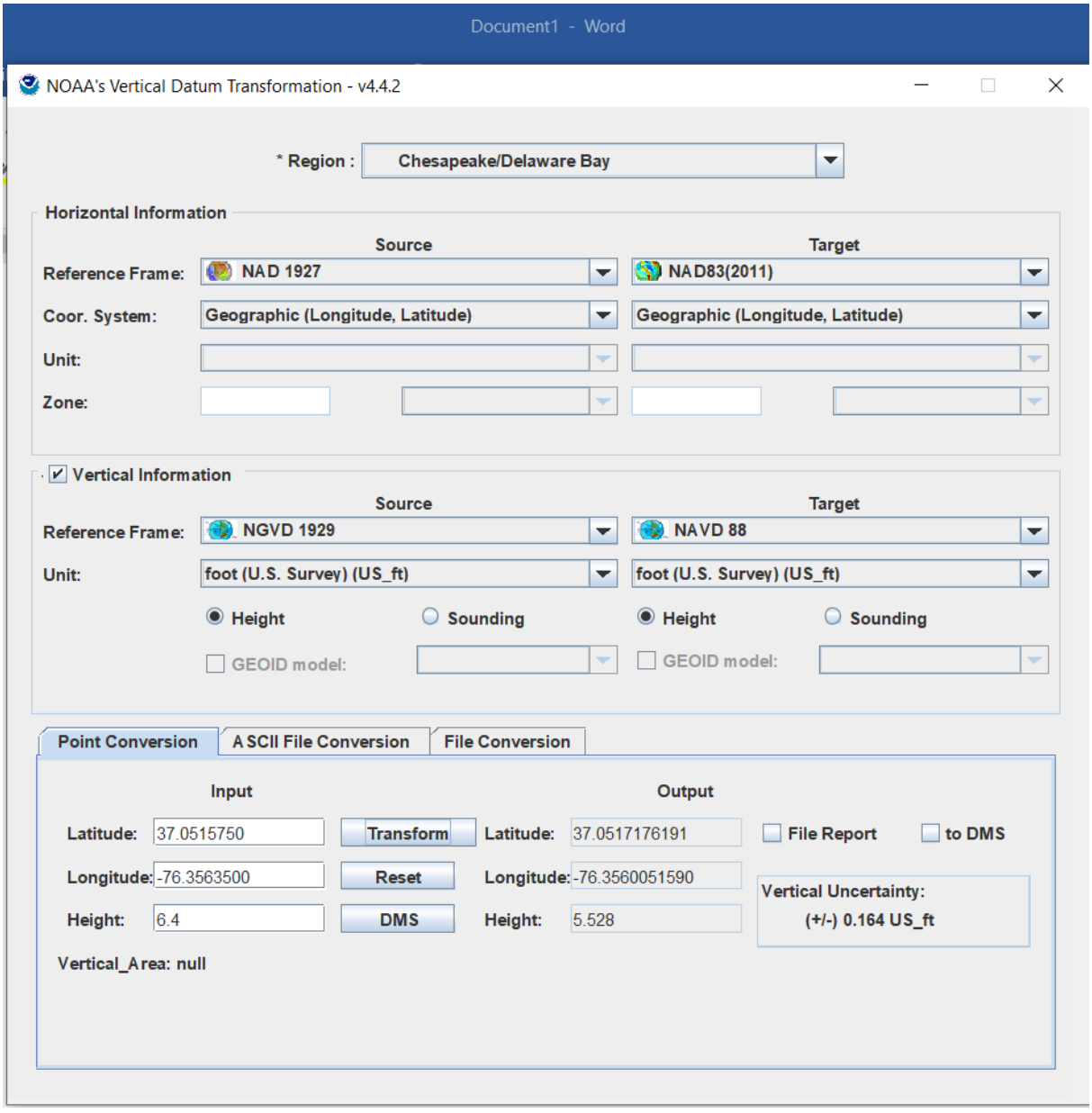


LOWEST ADJACENT GRADE CONVERSION:



VERTICAL DATUM CONVERSION FOR 409 W GILBERT ST

LOWEST FINISHED FLOOR CONVERSION:



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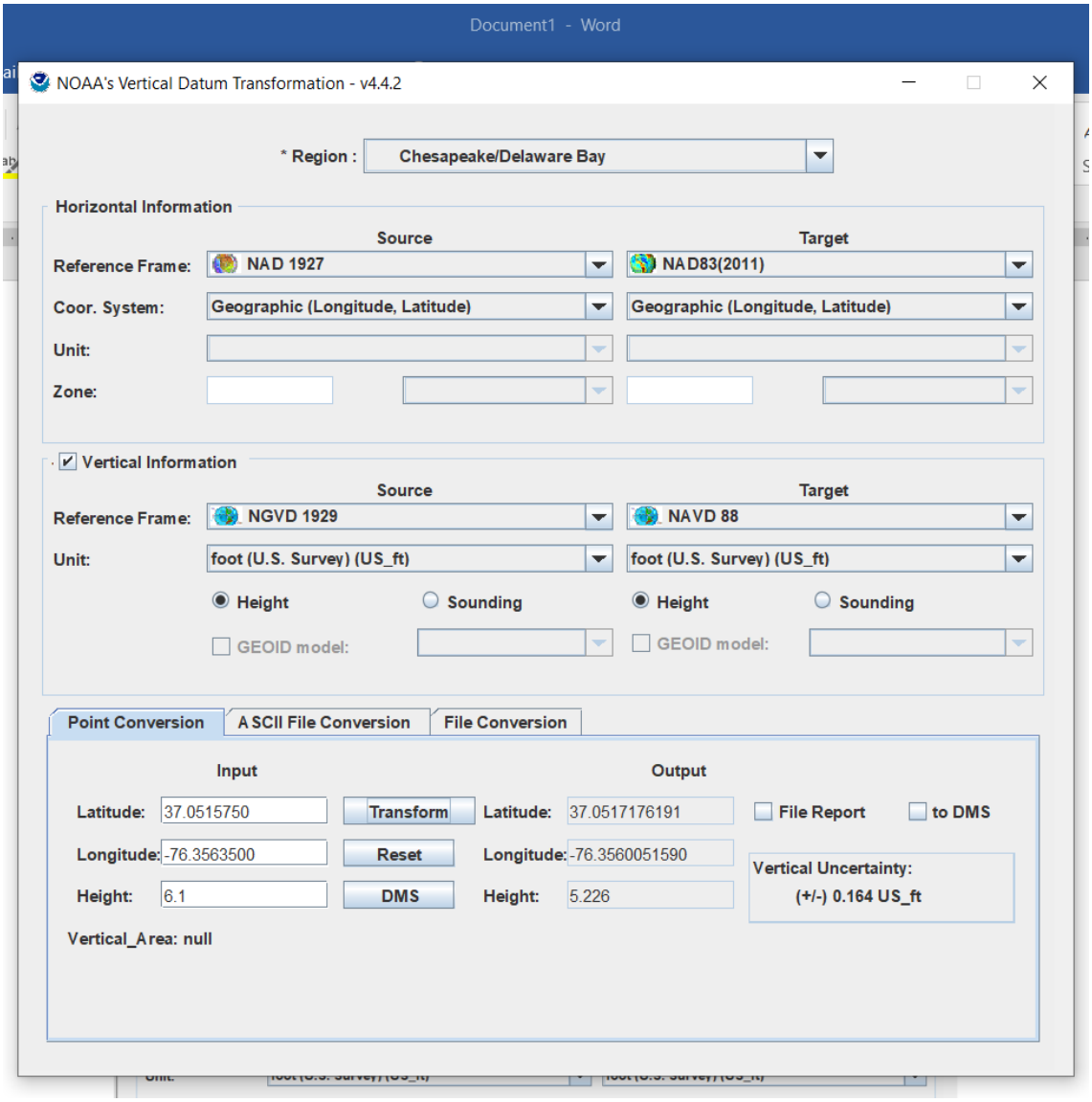
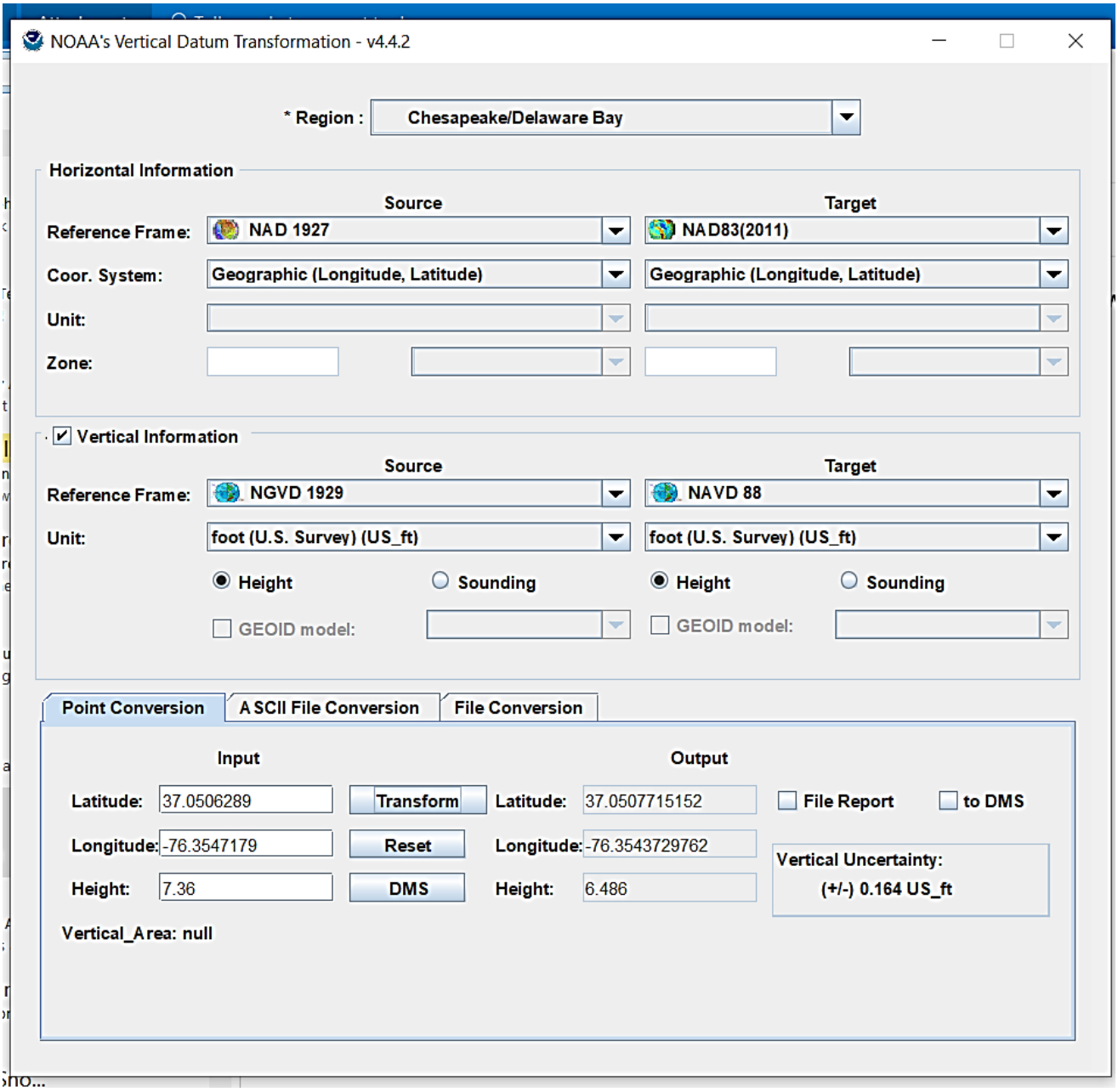


VERTICAL DATUM CONVERSION FOR 314 Roane Drive

LOWEST FINISHED FLOOR CONVERSION:



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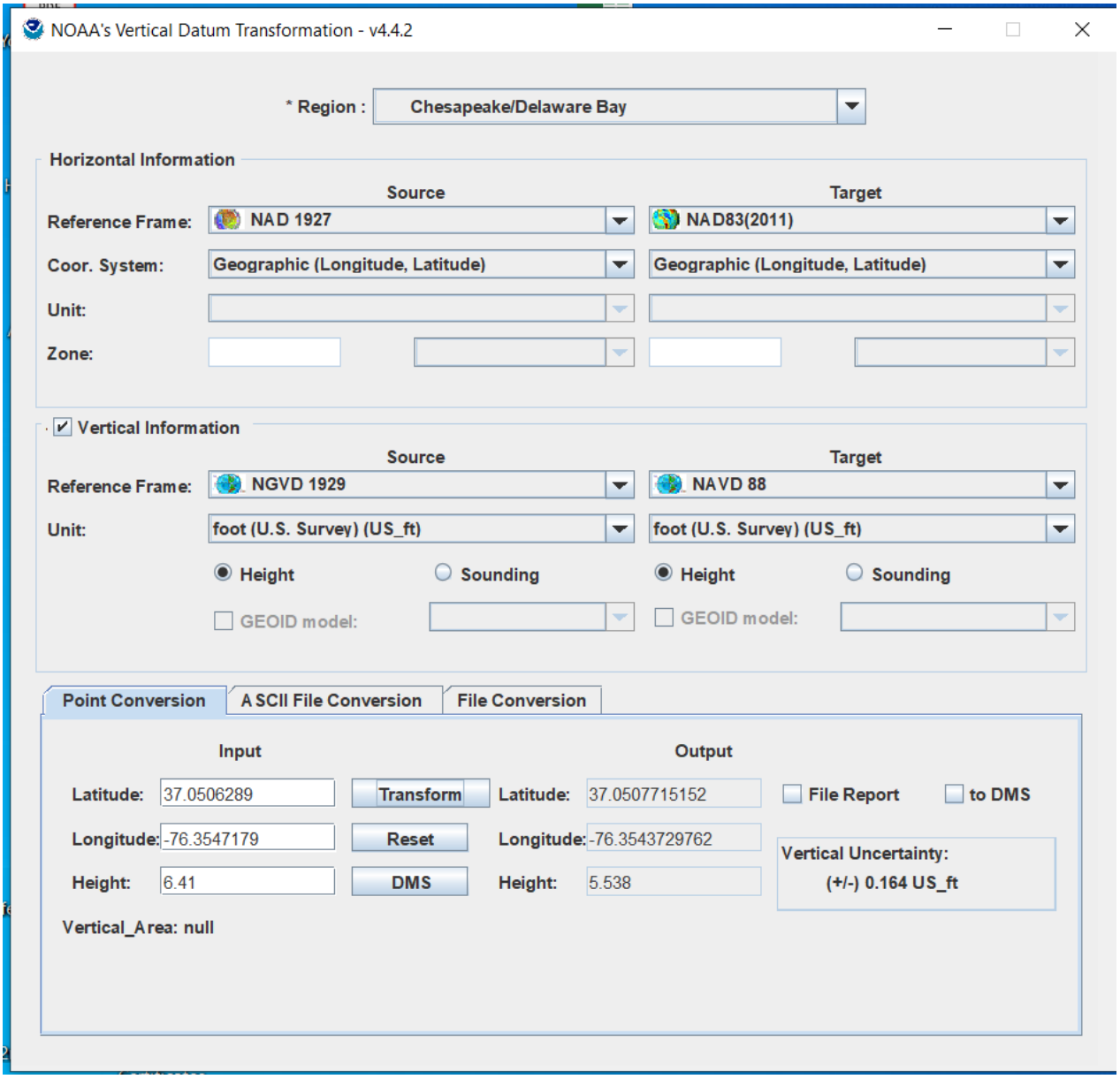
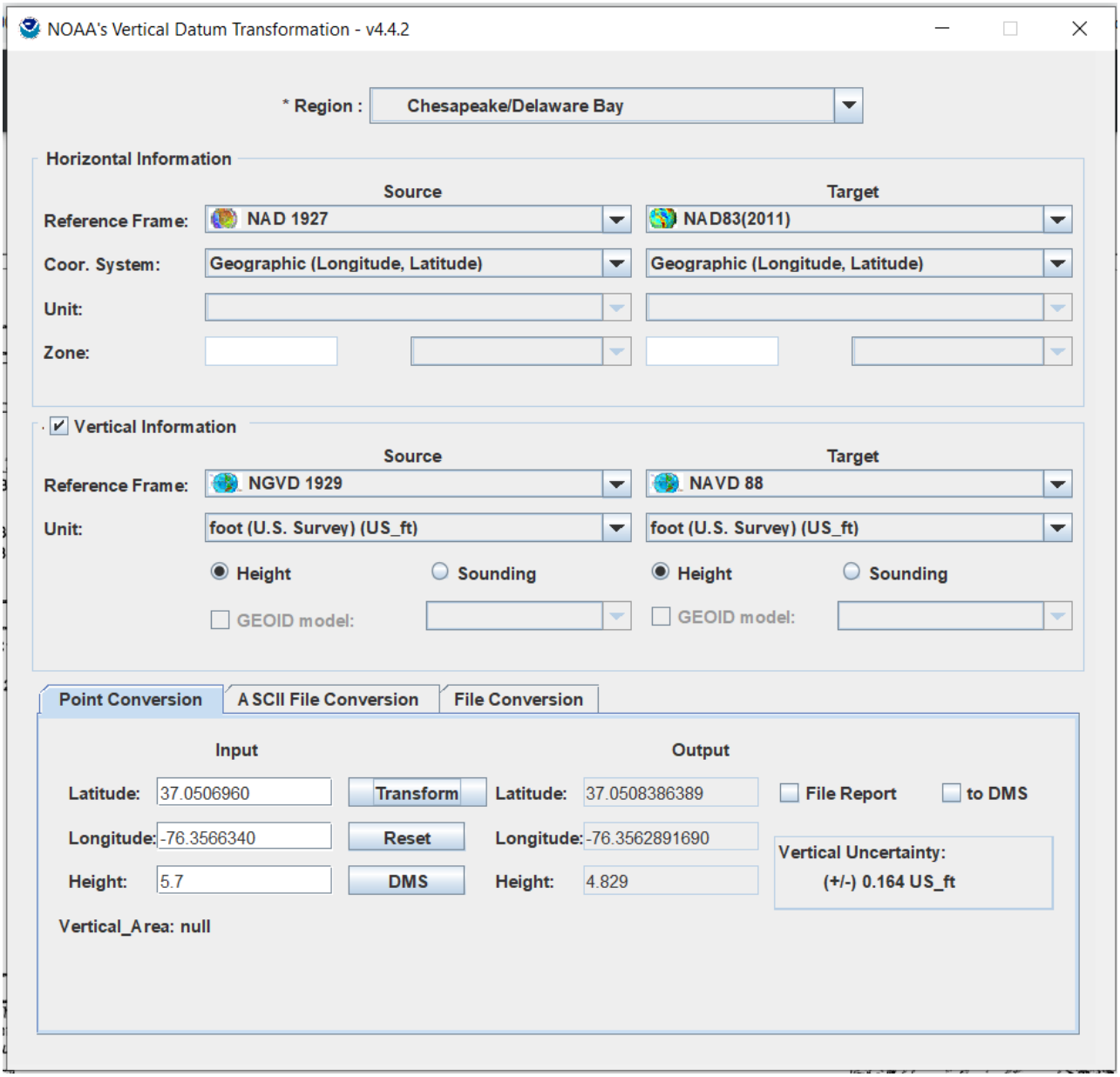


VERTICAL DATUM CONVERSION FOR 407 Roane Drive

LOWEST FINISHED FLOOR CONVERSION:



LOWEST ADJACENT GRADE CONVERSION: