2020 Elevation - 2007 Farm Creek Road - Shields Project

Status: Submitted to recipient

Scope of work

The project Scope of Work (SOW) identifies the eligible activity, describes what will be accomplished and explains how the mitigation activity will be implemented. The mitigation activity must be described in sufficient detail to verify the cost estimate. All activities for which funding is requested must be identified in the SOW prior to the close of the application period. FEMA has different requirements for project, planning and management cost SOWs.

Subapplication title (include type of activity and location)	**2020 Elevation - 2007 Farm Creek Road - Shields Project**

Activities

Primary activity type	**Elevation**
Secondary activity type (Optional)	
Geographic areas description	**The property is located at Latitude 38.282591 Longitude -76.080049 in Dorchester County, Maryland, in the community of Wingate. The community of Wingate is located in Dorchester County, is a community of 184 people with a median age of 35.3 years. it has an average family income of $25,302 per year based on the website (http://www.neighborhoodlink.com/zip/21675). The community is a fishing village centered around crabbing and oysters.**

Community lifelines

Primary community lifeline	**Food, water, shelter**
Primary sub-community lifeline	**Shelter**
Secondary community lifeline (optional)	

Hazard sources

Primary hazard source	**Flooding**

Secondary hazard source (optional)	**Severe storm**
Tertiary hazard source (optional)	
Is this a phased project?	**No**
Are you doing construction in this project?	**Yes**
Population affected	**028**
Detail/description of stated percentage	**The percentage is based on the property owners family members compared to the community population.**
Provide a clear and detailed description of your proposed activity	**This project is to elevate a single-family home located in a flood prone area to minimize risk of property damage/destruction from future flooding. The area where the home is located is the small community of Wingate Maryland which is located along the Honga River and Chesapeake Bay approximately 20 miles south of Cambridge, MD through the Blackwater Wildlife refuge. The home has tidal creeks on three sides of the property (front, rear and side) This area has been prone to flooding for many years and primarily suffers from extreme tidal events (when the tidal creeks overflow) related to wind effects/moon phase and from storm surge during hurricanes and other significant storms. In 2003, Hurricane Isabel flooded the entire community badly and caused significant damage to many homes. The last few years have not delivered any significant hurricane damage to the area but that will not last forever. The current structure has a foundation that is 20 inches above ground which is not suitable for the present-day flooding threats. The property at its current elevation was flooded in 2003 during Hurricane Isabel. The water mark inside the house was noted and the wall boards were cut and replaced at the 2-foot level. All contents on the first floor of the property were destroyed. Luckily, the house remained on its footers and did not float off as other houses in the community did. Water has not entered the home since Hurricane Isabel but ordinary high tides cause nuisance flooding on the property (when the tidal creeks overflow), tidal and storm surge flooding has brought the water to a level just below the floorboards several times over the last 11 years. The frequency of flooding events has increased in the past few years. To date we have been fortunate that winds from the west have**

	not occurred during the period of flooding as this combination would cause the flooding to come into the home. (see photos in package demonstrating flooding) Elevating this home will not affect the views, road access, water access or parking of any surrounding community residents. Effects of the home elevation will be limited to the property itself with no adverse impacts anticipated on any other property owners.
How will the mitigation activity be implemented?	**Raise House 8 feet, build masonry support, build stairs to front of property as well as side door, raise side deck This grant application is to raise the house at 2007 Farm Creek Road to the required elevation of BFE (4.5') + 3.5'. The foundation will be removed, new footers will be poured, and a new block foundation will be constructed When completed the lowest point of any mechanical systems underneath the home will be above the required 7.0' elevation point. To reduce the number of ingress/egress steps required to reach the entrance door level at 7.0' elevation point, the grade under the deck and steps area will be elevated approximately 3.5 feet. This will be graded at approximately 12:1 to existing levels surrounding the house. A structural professional has evaluated the house for structural integrity determined it to be sound and able to be elevated. His statement is included in this package. The scope of work for this home elevation project entails the following: • Site preparation; clearing areas around property for elevation work and access for all required heavy equipment and contractors • Disconnecting home services and utilities; work with utility company to disconnect power to the house, disconnect all required physical connections of electrical, plumbing, cable to facilitate house raising • Severing home from current block foundation • Elevating home (to include chimney and deck) to new specified elevation • Masonry work to repair any damage to existing block foundation that might occur during elevation, adding new block courses to achieve new home elevation, adding new brick courses for chimney elevation • Re-setting home and re-attaching home to concrete block foundation, joining chimney to new brick foundation, joining deck to new block deck columns • Re-connecting all home utilities, restoration of electrical power and utilities • Constructing new steps to reach front and side doors at new elevation • Extension of an existing berm to link up to the berm on our**

	neighbor's property. This remediates the current situation with tidal water encroaching on the rear of the property. This is as an additive measure of flood mitigation benefitting both properties and protecting the foundation of the house from seasonal tidal floods. The expanded berm does necessitate the need of the home to be elevated as water flows onto the property from four sides during high tidal activity. The berm is recommended on the back side of the property as that is the most common place of flooding during usual activity in time of small flooding. Allowing water to regularly pool and sit on the property during periods of low flooding would threaten the foundation of the new elevation work. The contractors also considered a 4-sided berm instead of the elevation but deemed it insufficient and an inferior remediation to the home elevation. • Site clean-up and removal of any construction debris • Restoration and grading of ground area surrounding home
Describe how the project is technically feasible and will be effective in reducing the risk by reducing or eliminating damage 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 flood protection with freeboard, 100-yr wind design, etc.):	**Raising the structure would provide protection to the residence - please refer to question/response above "Provide a clear and detailed description of your proposed activity. County and all building codes will be followed as will best engineering practices.**
Who will manage and complete the mitigation activity?	**The property owners will manage and complete the mitigation activity with assistance from Dorchester County Emergency Services/Emergency Management- Planner and County Planning & Zoning.**
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 flooding issues which impact the structure currently and hopefully into the future.**
When will the mitigation activity take place?	**This elevation mitigation activity would take place once the application is reviewed and approved by FEMA - once awarded the activity would start within a month of acceptance and funding.**
Explain why this project is the best alternative. What alternatives were considered to address the risk and why was the proposed activity considered the best alternative?	**1. Grading home foundation by adding dirt and gravel to the existing concrete block foundation to prevent water intrusion. This alternative is not seen as a viable option because the home is on flat and level ground and is primarily at risk to extreme**

	tidal and storm events which cause the Honga River and tidal creeks to overflow cause uniform flooding around the house and surrounding community. The existing foundation is only four concrete blocks high so grading this would offer little protection to the living spaces of the house and would also block the existing flood vents in the foundation. 2. Dry flood proofing the home with coatings/sealants and use of a sump pump. Any sealants could only be applied to the concrete foundation of the house and given the height of the foundation and existing flood vents, would really provide no benefits. Use of a sump pump under the house would also provide little protection from extreme flooding events because the volume of water from the river is so significant and no household pump system would make an impact on the flood waters.
Please identify the entity that will perform any long-term maintenance and provide a maintenance, schedule and cost information. The subapplicant or owner of the area to be mitigated is responsible for maintenance (including costs of long-term care) after the project is completed?	**All maintenance will be the responsibility of the property owner and they would be responsible to schedule and pay any maintenance bills incurred.**
Additional comments (optional)	**Attached are pictures of the property taken 11/18/2020 on a dry day and also pictures showing flooding, Also attached is a plot illustration, elevation certificate, and structural integrity letter.**

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
houseflood 3.jpg	11/19/2020	sgarvin@docogonet.com	Scope of Work Attachments	*No description given.*	
houseflood4.jpg	11/19/2020	sgarvin@docogonet.com	Scope of Work Attachments	*No description given.*	
2007FarmCreekRoad.pdf	11/19/2020	sgarvin@docogonet.com	Scope of Work Attachments	*No description given.*	

Filename	Date uploaded	Uploaded by	Label	Description	Action
FIRMETTE_555bee4f-7e6b-4959-870d-12603d9b51c7.pd.pdf	11/19/2020	sgarvin@docogonet.com	Scope of Work Attachments	*No description given.*	
Plot.pdf	11/19/2020	sgarvin@docogonet.com	Scope of Work Attachments	*No description given.*	
IMG_0164.jpg	11/19/2020	sgarvin@docogonet.com	Scope of Work Attachments	*No description given.*	
IMG_0165.jpg	11/19/2020	sgarvin@docogonet.com	Scope of Work Attachments	*No description given.*	
IMG_0166.jpg	11/19/2020	sgarvin@docogonet.com	Scope of Work Attachments	*No description given.*	
IMG_0167.jpg	11/19/2020	sgarvin@docogonet.com	Scope of Work Attachments	*No description given.*	
house flood 1.jpg	11/19/2020	sgarvin@docogonet.com	Scope of Work Attachments	*No description given.*	
house flood 2.jpg	11/19/2020	sgarvin@docogonet.com	Scope of Work Attachments	*No description given.*	
EC-2007 FARM CREEK RD-SHIELDS-3-11-14 (4).pdf	11/19/2020	sgarvin@docogonet.com	Scope of Work Attachments	*No description given.*	
Structural Assessment for 2007 Farm Creek Rd Wingate MD.pdf	11/19/2020	sgarvin@docogonet.com	Scope of Work Attachments	*No description given.*	

Continue