

Town of Duck Living Shoreline and NC 12 Resiliency Project

Evaluation

Is the applicant participating in the [Community Rating System \(CRS\)](#)? **Yes**

Select rating. **7**

Is the applicant a [Cooperating Technical Partner \(CTP\)](#)? **No**

Was this created from a previous FEMA HMA Advance assistance / Project scoping award? **No**

Has the applicant adopted building codes consistent with the [international codes](#)? **Yes**

Year of building code **2019**

Please provide the building code. **NCGS 151.06**

Have the applicant's building codes been assessed on the [Building Code Effectiveness Grading Schedule \(BCEGS\)](#)? **Yes**

Select rating. **4**

Describe involvement of partners to enhance the mitigation activity outcome.

Numerous public and private partners have been involved in conceptualizing, designing, and funding the project; their involvement will continue through final design, permitting, and construction. The N.C. Department of Transportation owns the road and the right-of-way and fully supports the roadway elevation and shoreline protection. The NCDOT has previously partnered with the Town on completed sections of the sidewalk/bike lane project. Having identified benefits to natural habitat, water quality, and coastal resiliency, the National Fish and Wildlife Foundation is providing generous grant funding for the Living Shoreline elements of the project. Recognizing the benefits of public safety and accessibility, the Dare County Tourism Board is providing substantial grant funding for the sidewalks. Additional financial partners are possible as the Town will be seeking grant funding for marsh grass vegetation from the Dare County Soil & Water Conservation District and public access/education from the N.C. Division of Coastal Management. During the design of the project, the Town has coordinated with the North

Carolina Coastal Federation and the multiple regulatory agencies involved with project oversight. The Coastal Federation has also agreed to assist with wetland plant selection and monitoring following the completion of the Living Shoreline project. As evidenced by the attached letters of support, the Town of Duck Living Shoreline and NC 12 Resiliency Project is supported by stakeholders with a wide array of interests - all of whom find the proposed project to provide significant benefits to Duck and the broader community. Several important environmental organizations are partners with the Town of Duck in the Currituck Sound Coalition. These organizations have pledged their support for the project as it will provide environmental benefits for the Sound and serve as a model project and valuable case study for other communities and property owners considering living shorelines and resiliency projects. Leading officials in Dare and Currituck counties, as well as Dare County Emergency Management, recognize the value of the project in creating more resilient communities and limiting disruption to traffic, emergency services, and the evacuation route using NC 12. Elected leaders offer their support as they recognize the wide-reaching economic impacts and benefits to public safety provided by the project. The Duck Community & Business Alliance, made up of local business and community leaders, understands the social and economic importance of maintaining a resilient community and also supports this grant application. Although the project will occur primarily in NCDOT right-of-way, it will include some impacts to private property and the riparian rights of owners along the Currituck Sound. The Town has coordinated directly with individual private property owners and homeowner associations to secure their support for and participation in the project. In addition, the Town has already obtained necessary easements (see attached) from each of the six (6) property owners in the project area adjoining NC 12 and the Currituck Sound.

Discuss how anticipated future conditions are addressed by this project.

Given the infeasibility of a new alignment, NC12 will remain the only north-south route into the future. Emergency access, storm evacuation, and daily traffic will continue to rely on this route. The project addresses this condition by elevating the roadway to the extent possible while stabilizing the

shoreline and incorporating nature-based living shoreline components. While the Town of Duck is largely built-out, some additional residential development is possible within the Town north of the project location. In addition, significant future development is likely as thousands of undeveloped parcels exist in Currituck County north of the project location; all of this future development will rely on NC12. The project also considers the impacts of sea level rise and the likelihood of more frequent roadway flooding. The proposed marsh protection and restoration elements of the project will allow for landward migration of the wetlands as water level increases over time. As the only north-south road through Duck, NC 12 serves as the sole means of access for thousands of residents and hundreds of thousands of tourists travelling to properties located in the northern neighborhoods of Duck and Currituck County farther to the north. Because of the low elevation of the roadway in this area, its close proximity to Currituck Sound, and the loss of abutting marsh, NC 12 has become more vulnerable to closure due to flooding and this trend is predicted to continue in the future as the effects of climate change and sea level rise exacerbate this situation. This segment of NC 12 was designated as the most vulnerable in the Town of Duck in a recent vulnerability assessment study conducted by the Program for the Study of Developed Shorelines at Western Carolina University.

Additional comments (optional)

To clarify a few of our responses above, the Town relies on the State of North Carolina as our Cooperating Technical Partner. The Town's Building Code Effectiveness rating is 4 for residential structures but 3 for commercial/industrial structures. The Town of Duck currently has a Class 7 CRS rating, but has recently completed its CRS CAV review and anticipates receiving a Class 6 rating based on initial feedback from the ISO review team.

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
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Filename	Date uploaded	Uploaded by	Label	Description	Action
Letter of Support - NCDOT.pdf	12/18/2020	jheard@townofduck.com	Evaluation Attachments	No description given.	
Letter of Support - DCBA.pdf	12/14/2020	jheard@townofduck.com	Evaluation Attachments	No description given.	
Letter of Support - Dare County Soil & Water.pdf	12/14/2020	jheard@townofduck.com	Evaluation Attachments	No description given.	
46634 Duck NC Final Letter.pdf	12/10/2020	cdewitt@vhb.com	Evaluation Attachments	Building Code Effectiveness Grading	
Easement - Byrum Family LLC RECORDED 2020-09-30.pdf	12/14/2020	jheard@townofduck.com	Evaluation Attachments	No description given.	
Easement CC Byrum RECORDED 2020-09-30.pdf	12/14/2020	jheard@townofduck.com	Evaluation Attachments	No description given.	
Easement - Colony by the Sea RECORDED 2020-09-30.pdf	12/14/2020	jheard@townofduck.com	Evaluation Attachments	No description given.	
Easement - Duck Ridge Shores RECORDED 2020-09-30.pdf	12/14/2020	jheard@townofduck.com	Evaluation Attachments	No description given.	
Easement - Kotch RECORDED 2020-09-30.pdf	12/14/2020	jheard@townofduck.com	Evaluation Attachments	No description given.	
Easement - Olde Duck Beach RECORDED 2020-09-30.pdf	12/14/2020	jheard@townofduck.com	Evaluation Attachments	No description given.	
Letter of Support - Audubon Society.pdf	12/14/2020	jheard@townofduck.com	Evaluation Attachments	No description given.	
Letter of Support - The Nature Conservancy.pdf	12/14/2020	jheard@townofduck.com	Evaluation Attachments	No description given.	

Filename	Date uploaded	Uploaded by	Label	Description	Action
Letter of Support - Dare County Emergency Management.pdf	12/14/2020	jheard@townofduck.com	Evaluation Attachments	No description given.	
Letter of Support - Ducks Unlimited.pdf	12/14/2020	jheard@townofduck.com	Evaluation Attachments	No description given.	
Letter of Support - NC Coastal Federation.pdf	12/14/2020	jheard@townofduck.com	Evaluation Attachments	No description given.	
Letter of Support - NC Sea Grant.pdf	12/14/2020	jheard@townofduck.com	Evaluation Attachments	No description given.	
Letter of Support - Congressman Murphy.pdf	12/16/2020	jheard@townofduck.com	Evaluation Attachments	No description given.	
RES 20-11 BRIC Grant.pdf	12/16/2020	jheard@townofduck.com	Evaluation Attachments	Town of Duck Resolution Supporting & Authorizing Submittal of the BRIC Grant Application	
Letter of Support - Dare County.pdf	12/18/2020	jheard@townofduck.com	Evaluation Attachments	No description given.	
2017 CRS Rating Confirmation.pdf	12/18/2020	jheard@townofduck.com	Evaluation Attachments	CRS Rating	
Letter of Support - Senator Steinburg.pdf	12/18/2020	jheard@townofduck.com	Evaluation Attachments	No description given.	
Letter of Support - Currituck County.pdf	12/18/2020	jheard@townofduck.com	Evaluation Attachments	No description given.	
Letter of Support - Representative Hanig.pdf	12/18/2020	jheard@townofduck.com	Evaluation Attachments	No description given.	

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