



COASTAL PROTECTION ENGINEERING OF NORTH CAROLINA, INC

4038 MASONBORO LOOP ROAD

WILMINGTON, NC 28409

910-399-1905

May 14, 2020

Wes Haskett

Interim Town Manager/Planning Director

Town of Southern Shores

5375 N. Virginia Dare Trail

Southern Shores, NC 27949

Re: **Tentative Schedule for Beach Nourishment Project Proposed for 2022**

Dear Mr. Haskett:

For your convenience, I have provided this tentative schedule of milestones for the proposed 2022 beach nourishment project for the Town of Southern Shores. A description of each of the items included in the schedule is provided below:

- **Project Initiation / Inter-agency Meeting** – This meeting, sometimes referred to as a project kickoff meeting, is to provide general project details to both the federal and state regulatory and resource agencies that will review the environmental documents and render a decision on whether to issue permits for the project. This meeting was held on April 29, 2020 and was attended by representatives of the four Dare County Towns of Duck, Southern Shores, Kitty Hawk, Kill Devil Hills.
- **Borrow Area Development** – This task includes offshore geophysical and geotechnical investigations aimed at identifying suitable sand to use for beach nourishment. These efforts should result in a borrow area design, which includes sediment compatibility analysis to support a permit being issued for use of the site for beach nourishment.
- **Engineering Design** – At present, a general concept has been developed through the studies conducted to date. However, the work included in the Engineering Design item in the schedule will include finalizing background erosion rates, determining the specific beach fill configuration (berm height/berm width/dune height/dune width), optimizing the beach fill design and designing transitions on the north and south ends of the projects. This information along with the borrow area design will be incorporated into the permit applications.
- **Federal Permitting** – In order to construct the project, the Town will need to secure a Dept. of the Army Permit from the US Army Corps of Engineers, which will also require the US Fish and Wildlife Service and National Marine Fisheries Service to consult on the action. If the borrow area is located in federal waters, which is likely, the Bureau of Ocean Energy Management (BOEM) will also be involved in the regulatory review process. Furthermore, BOEM will need to issue a lease for the use of sediment dredged from federal waters. Efforts included in this task are the development of environmental documents, the submittal of a Dept. of Army Permit application, and the coordination of the lease agreement with BOEM. This item is expected to conclude with issuance of the Dept. of Army Permit and BOEM Lease.
- **State Permitting** – In order to construct the project, the Town will need to secure a CAMA Major Permit from the NC Division of Coastal Management. Efforts included in this task are the preparation



of the permit application and regulatory review of the application. This item is expected to conclude with issuance of the State Permit.

- Obtaining Easements for Construction – This is a process that the Town and its legal council are expected to complete, which will entail securing construction easements from oceanfront property owners to allow for the construction of the project.
- Development of Construction Plans & Specifications – This work entails developing bid documents to solicit bids from dredge contractors for the combined Multi-Town project. The work includes finalizing engineering plans and the development of contract and specification documents that will be considered by dredge contractors in their development of bids.
- Establishment of MSDs – This item represents the timeframe in which the Town would establish Municipal Service Districts (MSDs) if such an approach is chosen to fund a portion of the project. The process whereby the MSDs are established requires public noticing and a public hearing.
- Solicitation of Bids – Once the Construction Plans & Specifications have been drafted, reviewed by Town and County staff, finalized, and incorporated into a bid package, the package will be advertised to dredge contractors. The documents are typically advertised for 30 days; however, that period may be extended if addenda are needed or if after the initial advertising period, three bids are not received.
- Award of Construction Contract – This includes evaluation of bids and negotiations between the dredge contractor, County, and Towns on the final terms of the dredge contract. This item is expected to conclude with the execution of a construction contract.
- Construction – The time included in the schedule is an estimate for the construction of the entire project. We do not recommend dictating to the dredge contractor the order in which the projects are to be completed, and therefore it is not possible to estimate when in the construction timetable, the Southern Shores section would be built.

*Tentative Schedule for Beach Nourishment Project Proposed for 2022.*

Milestone	Start Date	Completion Date	Number of Months
Project Initiation / Interagency Meeting	April 2020	April 2020	1
Borrow Area Development	May 2020	January 2021	9
Engineering Design	June 2020	January 2021	8
Federal Permitting	April 2020	June 2021	15
State Permitting	January 2020	June 2021	6
Obtaining Easements for Construction	January 2021	January 2022	12
Development of Construction Plans & Specifications	January 2021	June 2021	6
Establishment of MSDs*	March 2021	June 2021	4
Solicitation of Bids	June 2021	July 2021	1.5
Award Construction Contract	July 2021	August 2021	1.5
Construction	May 2022	October 2022	5

\* Dates provided for the Establishment of MSDs were provided by DEC Associates.



Please understand that all project schedules are subject to change. There are numerous aspects of this schedule that are out of the control of CPE-NC. That said, we have used our professional experience and judgement to develop this schedule and commit to the Town to provide them timely updates to the schedule, should revisions be required.

Please let me know if you have any questions about the schedule or project in general.

Sincerely,

A handwritten signature in black ink, appearing to read "Ken Willson", written in a cursive style.

Ken Willson

Senior Program Manager

Coastal Protection Engineering of North Carolina, Inc

Office: 910-399-1905

Mobile: 910-443-4471

[kwillson@coastalprotectioneng.com](mailto:kwillson@coastalprotectioneng.com)