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M. Renée Cahoon
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J. Webb Fuller
Commissioner

Kevin Brinkley
Commissioner

MEMORANDUM

To: Board of Commissioners

From: David Ryan, P.E., Town Engineer

Date: June 29, 2021

RE: -Professional Services contract amendment for Year 2 of Beach Nourishment Multi-Decadal Master Plan
-Amendment #1 to Beach Nourishment Master Plan Capital Project Ordinance
-Amendment to FY 21/22 Budget

At the June 2, 2021 Board of Commissioners meeting, Phase 1A of the Multi-Decadal Master Plan was approved to initiate hydrographic surveys, side scan sonar and sub-bottom profile field surveys to map and characterize the offshore sand borrow area surveys to commence with Yr-2 of the Town of Nags Head Multi-Decadal Master Plan. This work was phased to take advantage of the calmer summer wave conditions.

This request contains the balance of the professional services fee proposal for Year 2 of the Town's Multi-Decadal Master Plan which is a continuation of the Year 1 services through additional borrow area field investigations, engineering, and modelling to progress the engineering side of the Master Plan. The scope of work is broken down into several subtasks with phasing assigned to the field investigations.

Phase 1B will capture geological (vibracores with lab analyses, and sub-bottom profiling) and archaeological (magnetometer) data to meet current regulatory requirements. This survey data will support identification of available sand resources within the S1 Borrow Area in addition to engineering analysis to assess the suitability of sediments in the borrow area for future beach nourishment material and overall sand volume needs for future planning.

Phase 2 will consist of supplemental sub-bottom profiling and magnetometer surveys and analysis will support N.C. State Historical Preservation Office approvals for dredging in the borrow areas and to depths necessary to identify long-term beach renourishment needs.

Data from Phases 1 and 2 will be synthesized in the engineering analysis to determine and recommend beach and dune profile templates to best meet and sustain the Town's goals for protecting oceanfront structure and providing for public access and oceanfront recreational needs. The engineering analysis will be submitted in a report format with the results of the field investigations, sediment source study, beach nourishment preliminary design, phasing and renourishment intervals summarized in a detailed engineering report.

Project management, town meetings and coordination services to discuss progress, findings and recommendations related to the various Task 10 work items.

The submitted fee proposal for the completion of the balance of the Year 2 scope of work is \$1,737,907.

Staff recommends acceptance of the total scope of work presented in the Moffat & Nichol submitted fee proposal in conjunction with the Capital Project Ordinance amendment and budget amendment requests.

Attachments: - Moffat & Nichol, Town of Nags Head Yr. 2 Multi-Decadal Master Plan, Task 10.
- Capital Project Ordinance Amendment
- Associated Budget Amendment