

Narrative

In 2018, the Town of Hull updated their Beach Management Plan (BMP) which continued the language that was outlined in earlier versions of measures for emergency repair to dune sections that were severely impacted by coastal storm induced erosion. Due to the severity of the coastal storms after the adoption of the 2018 BMP, the Town realizes the need for proactive storm damage protection preparation for more intensive and more frequent coastal storms during the winter season. The Town is submitting this Notice of Intent to fill dune blowouts and other areas where the dune is precariously thin with clean sand obtained from state-approved vendors of road sand or to use reclaimed Nantasket Beach sand. The primary dune covered under this NOI extends from Phipps St to R St. Most emergency repairs to date have only extended from Phipps St to A Street. Sand placement will follow procedures for emergency repair as outlined in the 2018 BMP (included).

After the storm season and after the piping plover nesting and rearing season, beginning Sept 1st, the condition of the primary dune along Nantasket Beach will be evaluated by the director of the Town's Department of Public Works (or designee) and the Conservation Administrator (or designee). Areas where fortification is identified will be evaluated to the degree of sand volume, method of placement and the linear extent of sand placement. In areas where dune vegetation is seaward of the area needing sand nourishment, care will be taken to minimize impact to the vegetation. Oversight of dune repair will be conducted by the Conservation Administrator or designee. Dune repair details, such as location, linear extent, and source and volume of sand used will be recorded for each year to aid in further annual repair efforts and to identify more vulnerable areas.

With this NOI, the Town of Hull proposes to maintain the volume necessary to ensure storm damage protection for coastal storm surge and overtopping. In addition, the Town proposes the following practices and guidelines for routine maintenance of the dune access paths. Great care must be taken not to damage the vegetated dune or disturb areas requiring the protection of endangered, threatened, or of special concern species. If the dune vegetation is damaged, repairs must take place as soon as practical. No maintenance/repair will be conducted in the priority habitat during critical periods of growth for protected species (e.g., after April 1st and before August 31st for piping plovers). Each year, if repair is needed, a report with these details will be made available to the Conservation Commission.

Update 2020:

Most of the Sand placed for dune repair was planted in March 2019, except for a large section of Area 3 between Malta and Revere Streets. Sand from a State approved upland source, (supplied by P.A. Landers) was placed by the DPW using a bucket loader under the supervision of the Conservation Department following the Order of Conditions issued by the Conservation Commission on October 24, 2018. Observations during October 2020 of the areas of this Order of Conditions where sand was placed to repair the dune show strong re-vegetation following the annual Town-sponsored Beach Grass planting. These areas also show trapping and accumulation of natural wind-blown Nantasket Beach sand. The few areas where beach grass planting was not done, or in areas where sparse planting occurred, showed less to no

accumulation of natural sand as indicated by the color and difference in grain size of the repair sand. Photos showing the repairs done in 2018 are compared with photos of the same areas taken in October 2020.

For the fall of 2018, the following areas have been identified for dune repair:

Addresses below are given for areas of the primary dune adjacent to these listed properties

Malta – Revere:

37 Beach Ave

Revere – Kenberma:

51-53 Beach Ave (10 loads?)

In front of 65 Beach Ave

Between 65 and 67 (10 loads?)

73 Beach Ave (illegal opening, requested DPW action to fill ASAP)

75 Beach Ave (small blowout, careful of beachgrass plantings)

Kenberma – Alden:

Nothing pressing

Alden – Warren:

Probably the most damaged section

Fill 93 Beach Ave (permitted) in Oct?

Fill behind beachgrass at 99 Beach

101 – 105 Beach Ave, place sand at toe-end behind beachgrass vegetation. 107 – Warren St; again sand placed at toe-end of dune, don't worry about vegetation

Warren St – Parking Lots

Warren up to 119 Beach Ave, place sand at toe-end behind beachgrass vegetation. (Can this be done streetside?)

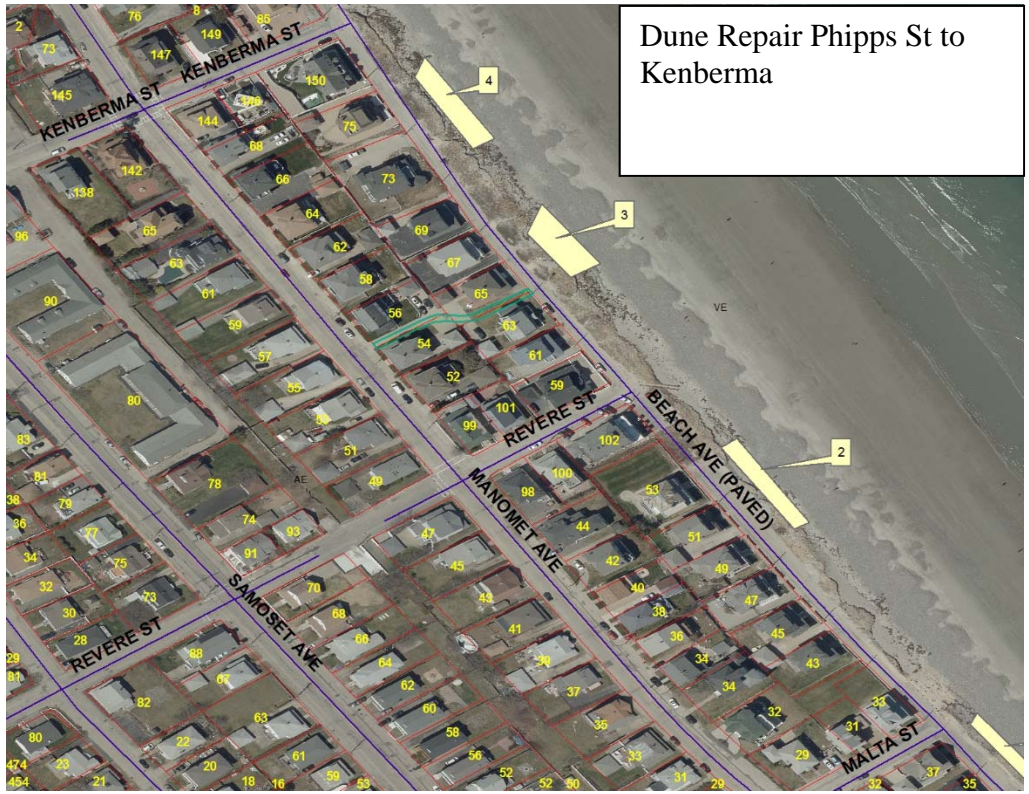
127 Beach Ave and either side of path at Coburn. Careful of planted beachgrass

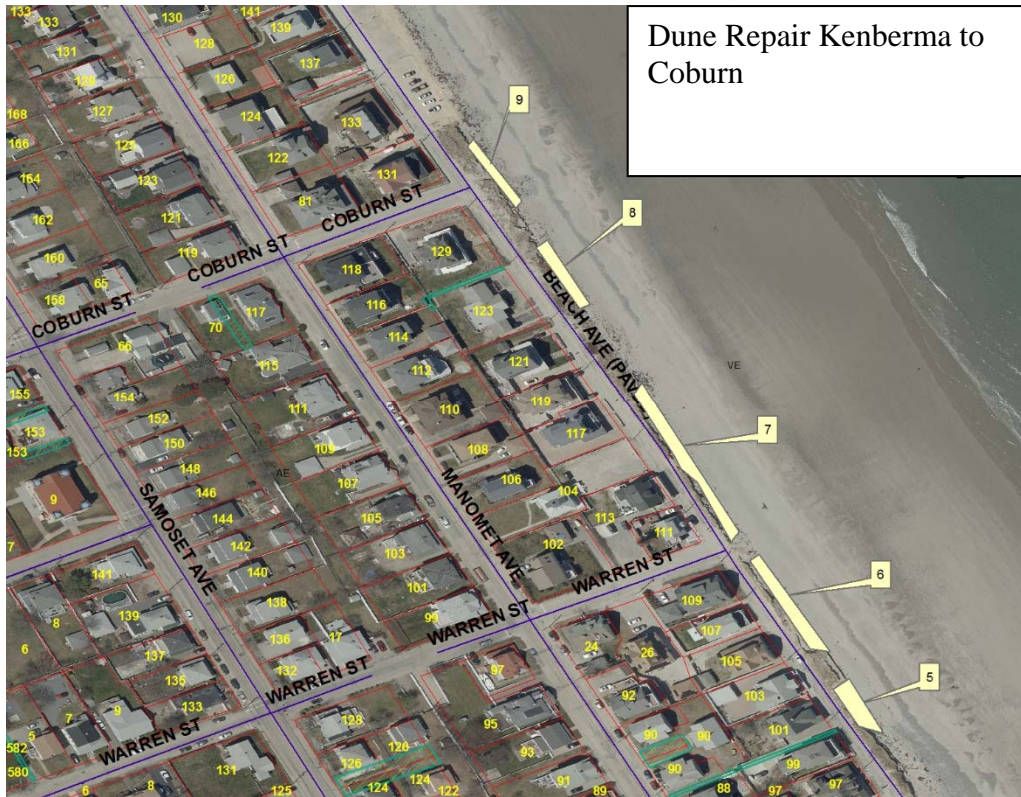
North of Parking Lots

Between 147 and 149 Beach, fill minor blowout (due to pedestrian walk through on un-permitted path)

151 Beach Ave, fill minor blowout (due to pedestrian walk through on un-permitted path)

Repair Areas Maps

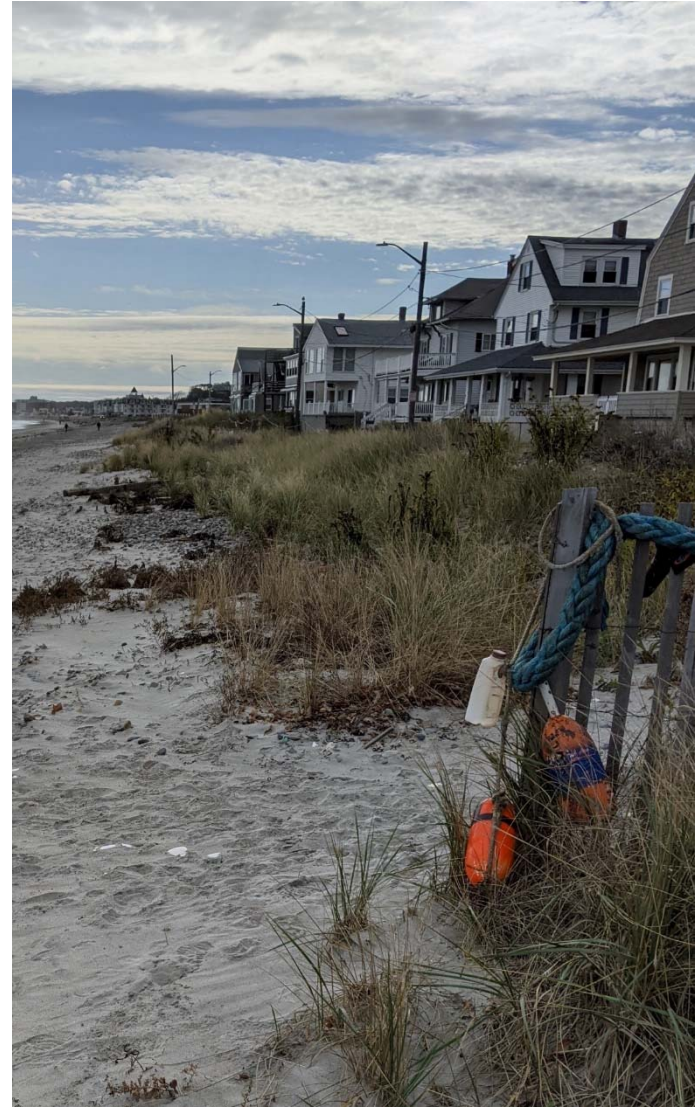




January 2019 Dune repair and October 2020 Photos



Malta St. Looking SE, "Area 2" Jan., 2019



Malta St. Looking SE, "Area 2" October 2020



“Area 3” Looking NW, Jan 2019



“Area 3” Looking NW, October 2020



“Area 4”, more sand was added. Jan., 2019



“Area 4”, October 2020



“Area 5” Looking NW, Jan., 2019



“Area 5” Looking NW, October 2020



“Area 6”, more was added, Jan. 2019



“Area 6”, October 2020



“Area 7, Looking NW, Jan 2019



Area 7, October 2020



Area 8", more sand was added, Jan. 2019



"Area 8", October 2020



Area 10 and 11", Looking NW, Jan 2019



Area 10 and 11", Looking NW, October 2020



Area 10, Jan. 2019



Area 10, October 2020



Area 11, Jan. 2019



Area 11, Oct. 2020