

EAST-SOUTHEAST, LLC

J. Thaddeus Eldredge, P.L.S.

Surveying, Geomatics Engineering and Mapping

1038 Main Street ° Chatham, Massachusetts 02633

41°41'14.73425" N, 69°58'24.87695" W -10.019 M

NOURISHMENT PLAN

January 7, 2020

Property: 154 Champlain Road, Chatham, MA

The property at 154 Champlain Road is bisected by Champlain Road. The southerly parcel contains tidal flats, salt marsh, beach, coastal bank and upland. The recent storms from the south have resulted in the erosion of the toe of the bank.

Within the upland is a coastal engineering structure (CES). Based on the recollection of Eugene Dubis, the structure was installed by Dubis & Sons who were engaged by the Town of Chatham Department of Public Works around 1990. There were no design plans recovered at the Department of Public Works. The CES is comprised of 20' deep galvanized steel sheets with a steel cap. The CES is intended to be a failsafe for when the coastal bank erodes and the harbor would endanger Champlain Road. As it is buried, the inspection of it will not be possible until the bank erodes. As it is buried in naturally occurring soil, the amount of corrosion can be expected to be minimal. Fortunately it is not a concern until it is exposed and if the bank persists it will not be exposed.

1. Site Preparation and Nourishment

- a. Prior to starting work, the Conservation Agent shall be notified. The Agent will determine if a site visit is necessary before the work commences.
- b. The area shall be photographed prior to the start of work.
- c. All nourishment shall be placed above Mean High Water and Mean Higher High Water.
- d. All nourishment shall be sand compatible with the sands found in the area.
- e. The nourishment above the beach will be covered with biodegradable

erosion control matting and will be planted with beach grass.

- f. Symbolic fencing will be installed to protect the beach grass.
- g. Machinery shall be placed within Champlain Road. A long reach excavator shall be used to transport materials to the toe of the bank.
- h. A small machine (dingo or bobcat) may be used to spread the sand. This shall be timed with the replanting of the area. Access will be from beside the stairs over matting to protect the bank and vegetation.
- i. No sand shall be placed over any salt marsh.
- j. The area shall be photographed after the end of work.

2. Inspections, Reporting and Triggers

- a. The property owner shall be responsible for inspecting and determining the need for additional nourishment.
- b. Photographs shall be provided to the Conservation Commission after each nourishment.

Copy: DEP, Southeast Regional Office