

# Item #2025 – 027 Sandy Neck Coastal Resiliency Project

October 24, 2024

Town of Barnstable – DPW
Town of Barnstable – Marine & Environmental Affairs
Sandy Neck Board



### **Objective of Appropriation**

- Accept Municipal Vulnerability Preparedness (MVP) FY25/26 Grant Funds \$2,833,849
- Secure Remaining Balance of Funds \$3,826,327



#### **Project Update**

- Received FY 2025 CZM Coastal Resilience Grant \$90,542.
- Sandy Neck Coastal Resiliency Outreach Educational Projects.
- Sandy Neck Board voted to endorse 2025 fee increases.

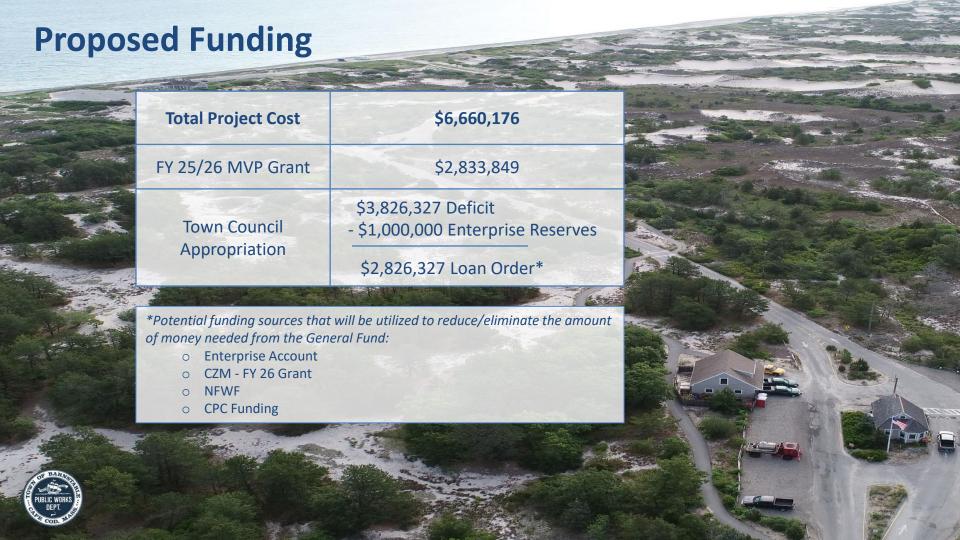


## **Community Support**

Hyannis West Elementary School
Barnstable Community Innovation School
Upper Cape Cod Tech.
Barnstable High School Environmental Science & Tech.
New England Wildlife Centers
Massachusetts Audubon

Boy Scouts of America Association to Preserve Cape Cod Town of Sandwich The Nature Conservancy Sandy Neck Advisory Board The Beach Buggy Association







#### **Grant Funding Received to Date**

#### FY2023 CZM Coastal Resilience Grant Award \$128,127

Evaluated alternatives, selected a preferred alternative, developed 30% design plans, and initiated permitting with MEPA.

# FY2025/2026 MVP Action Grant \$2,833,849

Awarded to fund the project's construction / on-the-ground implementation and to execute the Spadefoot toad Protection Plan

#### FY 2016 CZM Coastal Resilience Grant Award \$148,500

Evaluated long-term management options for protecting the Public Beach Facility from storm and flood damages.

#### FY 2024 CZM Coastal Resilience Grant Award \$92,579

Finalized 90% and 100% design level plans for long-term resiliency at Sandy Neck Beach Facility / completed permitting

FY 2025 CZM Coastal Resilience Grant \$90,542

Local and MA NHESP Permitting, Contract Solicitation and Selection, Meetings and Project Management



Since 2013, the Enterprise account has spent \$549,160 to nourish the dunes at the Sandy Neck Facility

Enterprise account has spent \$133,191 on grant matches to date

## **Project Goals**

The Town's primary goals for this Project were to develop a long-term coastal resiliency project that:

- 1. Addressed coastal vulnerability to erosion, dune loss, and flooding;
- 2. Was sustainable for at least 50 years;
- 3. Supported current uses of the site that are safe for the public;
- 4. Enhanced and protected coastal resources;
- 5. Was economically viable; and
- 6. Was permittable under current environmental regulations.

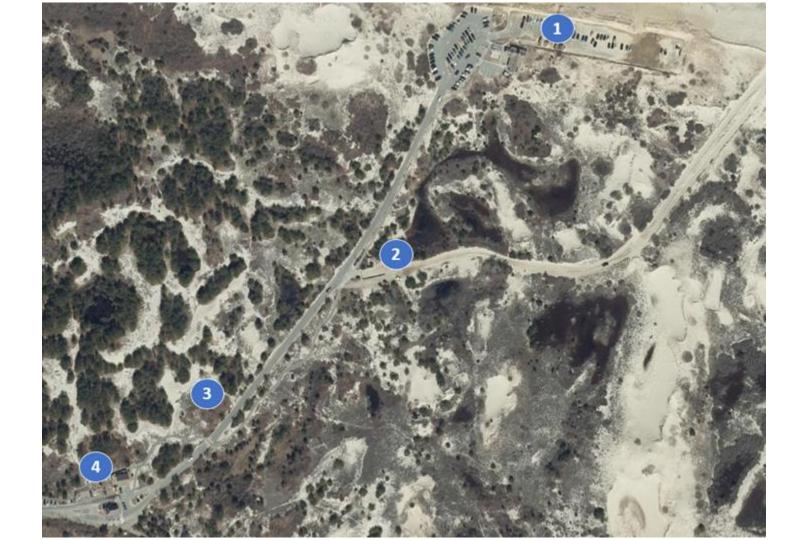












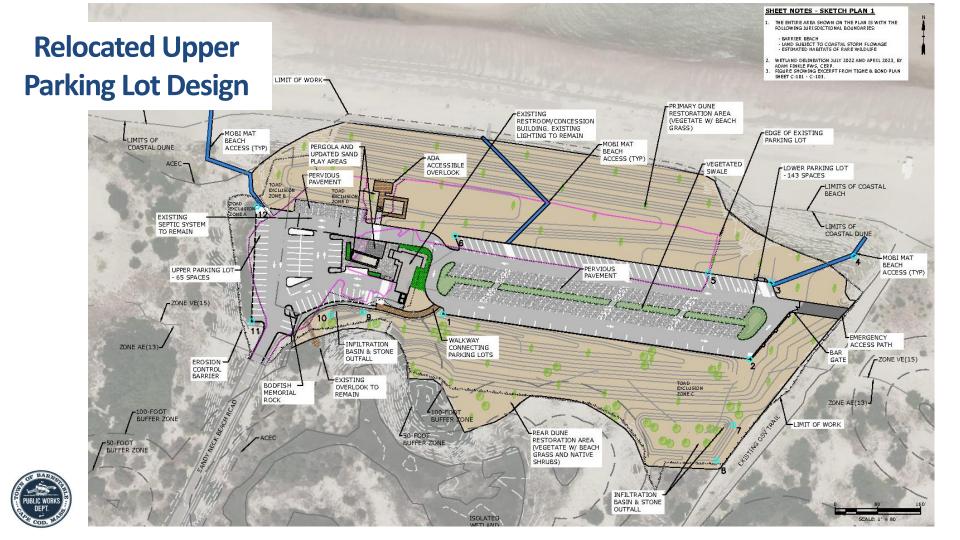


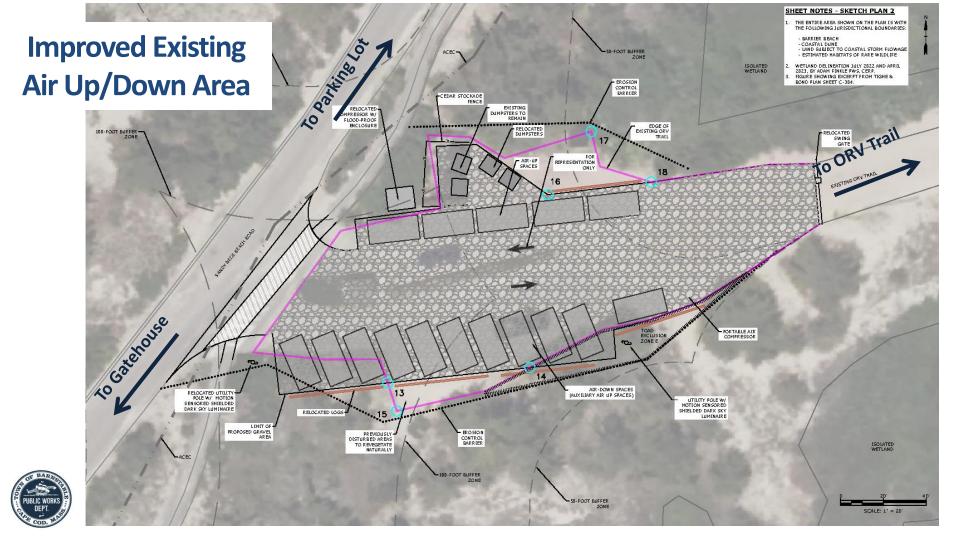
## **Past Public Engagement**

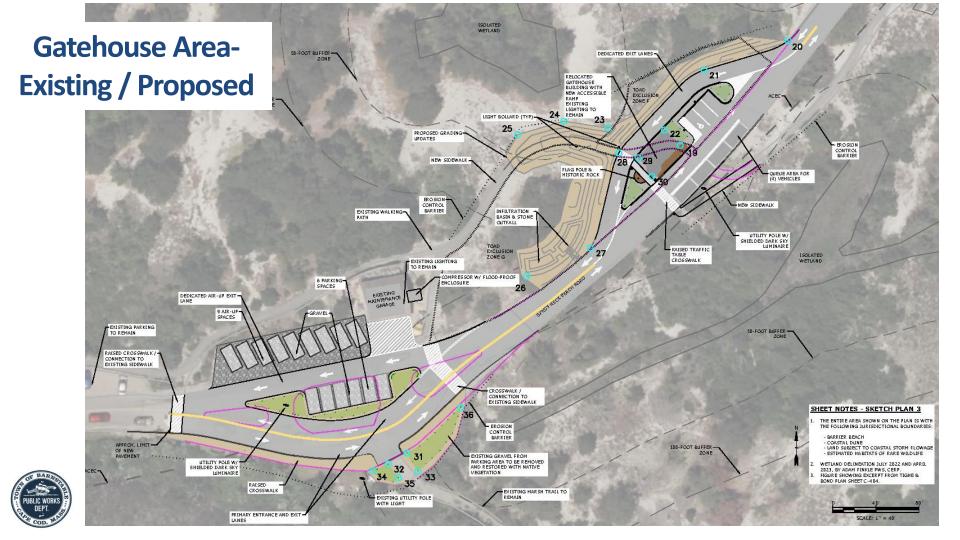
- January 10 & 12, 2023
  - Reviewed Site Vulnerabilities and Constraints
  - Established Project Goals
  - Presented Three and Selected One Conceptual Alternatives to Address Vulnerabilities
- April 5, 2023
  - Presented Two and Selected One Refined Conceptual Design
- June 22, 2023
  - Present Preliminary Design
- March 14, 2024
  - Present 90% Design











#### **Cost Development**

Alternatives Assessment Tech Memo (October 2022)	\$4,188,970	Has a "new entrance booth" for \$20,000 does not include modifications to existing GH
65% OPC (June 2023)	\$5,600,000	Includes some changes to the GH, changes to dune design and new rear dune restoration increased costs by ~1million
90% OPC (April 2024)	\$6,200,000	Changes to the GH (cost goes from \$450,000 at 65% to \$800,000 at 90% design) / Includes modifications to the ORV entrance / Includes stormwater management changes that were required
100% OPC (June 2024)	\$6,400,000	Includes new observation deck design (\$75,000 at 90% and \$230,000 at 100% design)

- Unit costs used for items listed are developed from bid results of similar work, MassDOT bid result data, and our experience with the design and bidding other projects in the area
- A few items will require more specialized work such as the relocation of the existing gatehouse, installation of the foundations needed for the overlook structure, and modifications to the existing septic system
- Significant increase in contractors' costs (labor, some materials, and insurance) over the past few year have impacted bid results



Endangered Species Habitat

50-Year Limit of Dune Loss



