



Review of Alternatives for Long Term Resiliency at Sandy Neck Beach Facility

Public Meeting

Jan. 10, 2023 (in person)

Jan. 12, 2023 (virtual)

Town of Barnstable – DPW

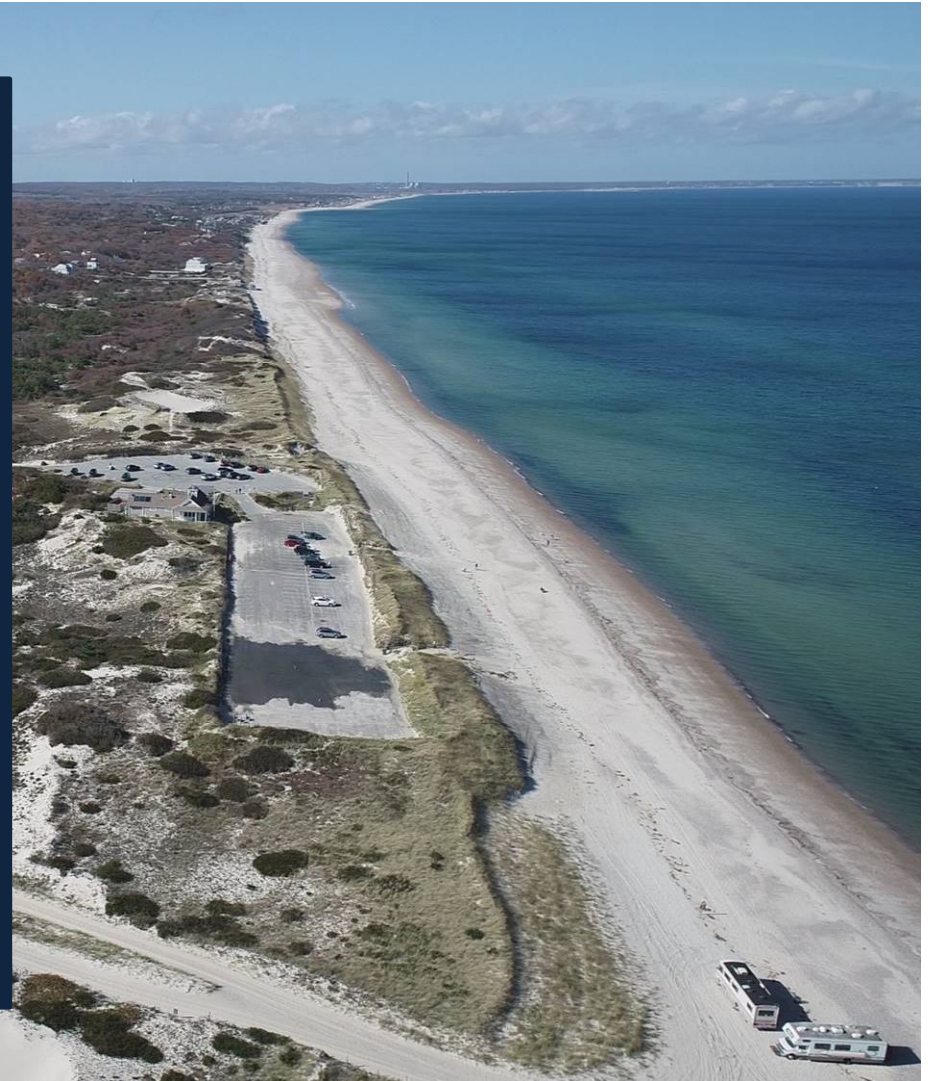
Town of Barnstable – Marine & Environmental Affairs

Sandy Neck Board

Woods Hole Group

Tighe & Bond

Goddard Consulting



Meeting Agenda

- Site Background
- Problem
- Project Goals
- Evaluation of Alternatives
- Next Steps
- Public Comments



Existing Site

- Asset to Towns of Barnstable and Sandwich
- Extensive and unique natural resources
- Varied stakeholders:
 - Town residents and visitors
 - ORV permit holders
 - Cottage owners
 - Campers
- User-generated revenue of ~ \$1M per year
- Revenue supports continued stakeholder use and stewardship programs
- Not supported by tax dollars



Natural Resources

- Area of Critical Environmental Concern (9,130 acres, second largest in MA)
- Site has habitat for protected rare species:
 - Eastern Spadefoot Toad
 - Least Tern
 - Piping Plover
 - Plymouth Gentian
 - Diamondback Terrapin Turtle



The Problem

- Severe erosion and dune loss
- Current day threats to:
 - Access to Public Beach
 - Off Road Vehicle Beach
 - Endangered species habitat
 - Gatehouse operations
- Loss of public access and infrastructure will reduce revenue that supports facility



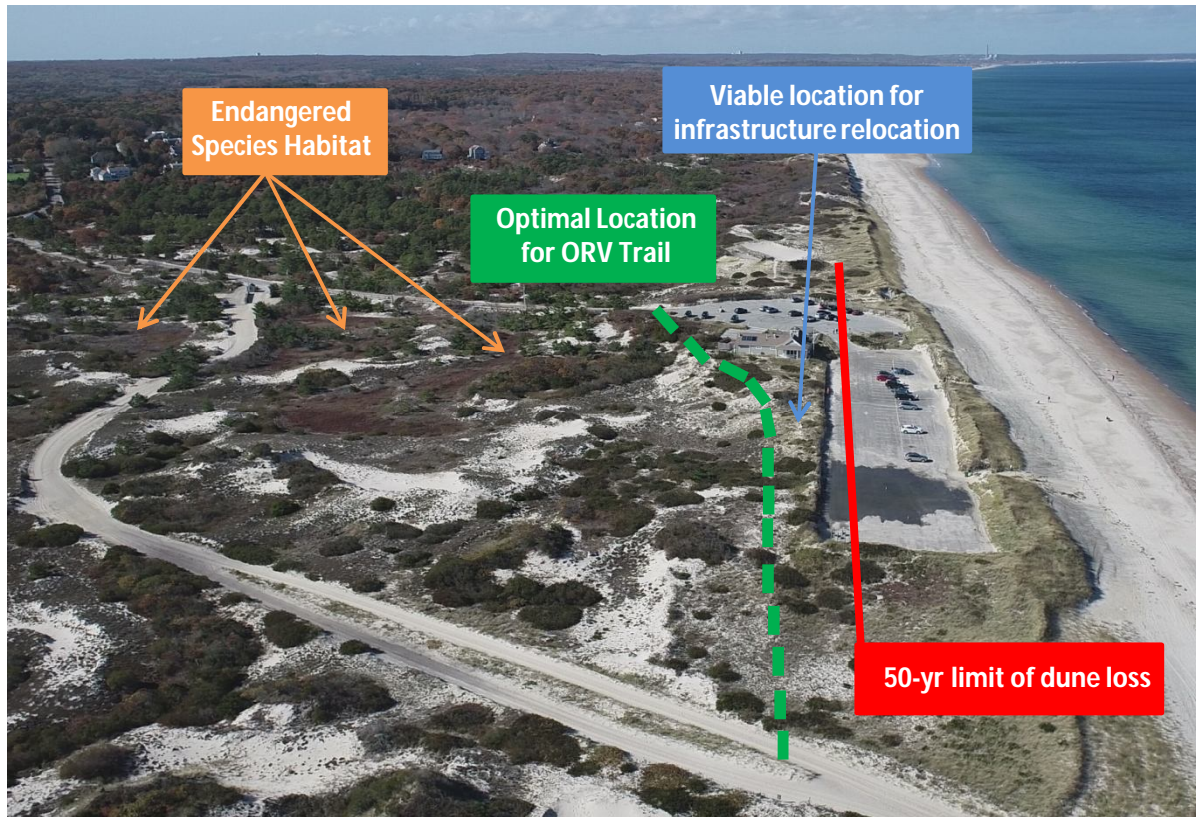
Nemo - Feb. 2013

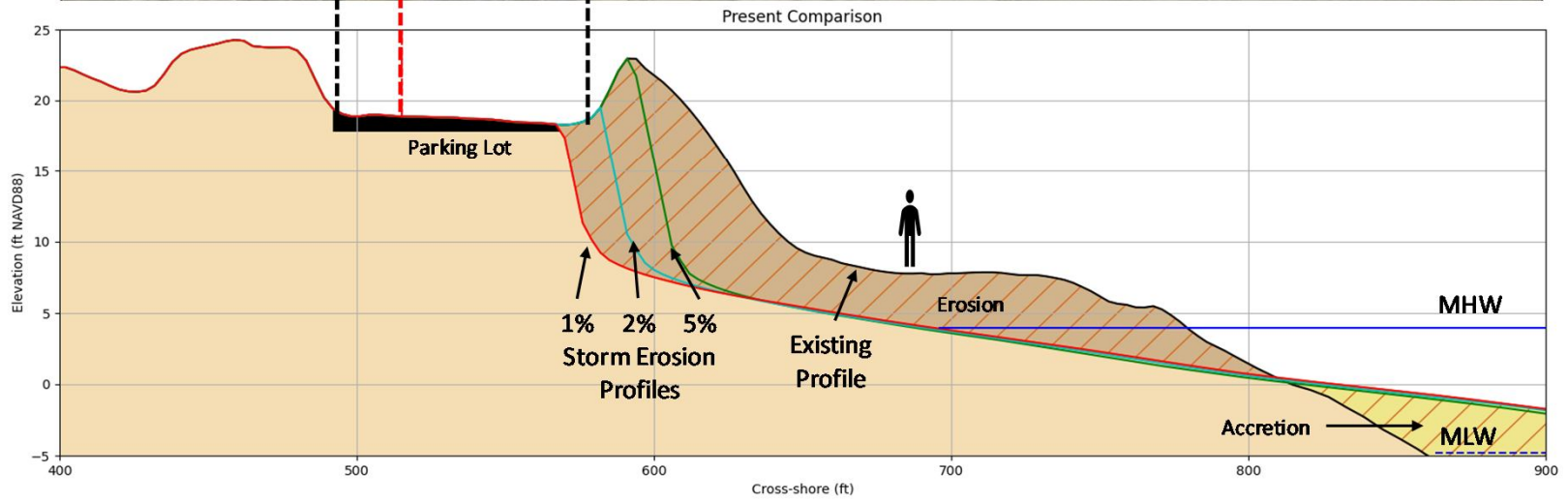


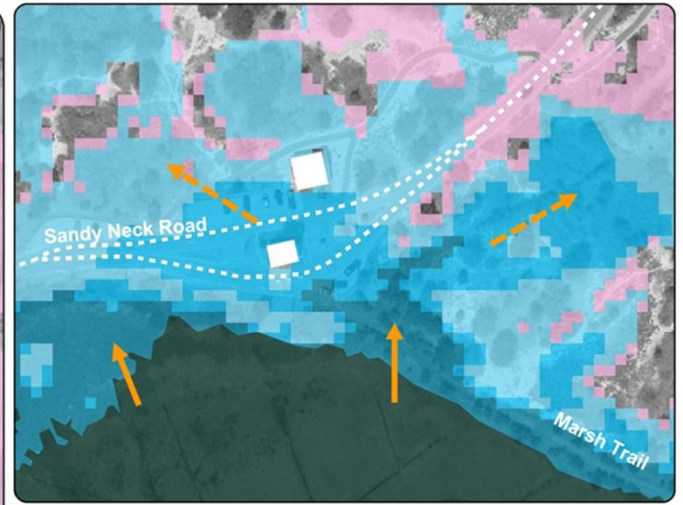
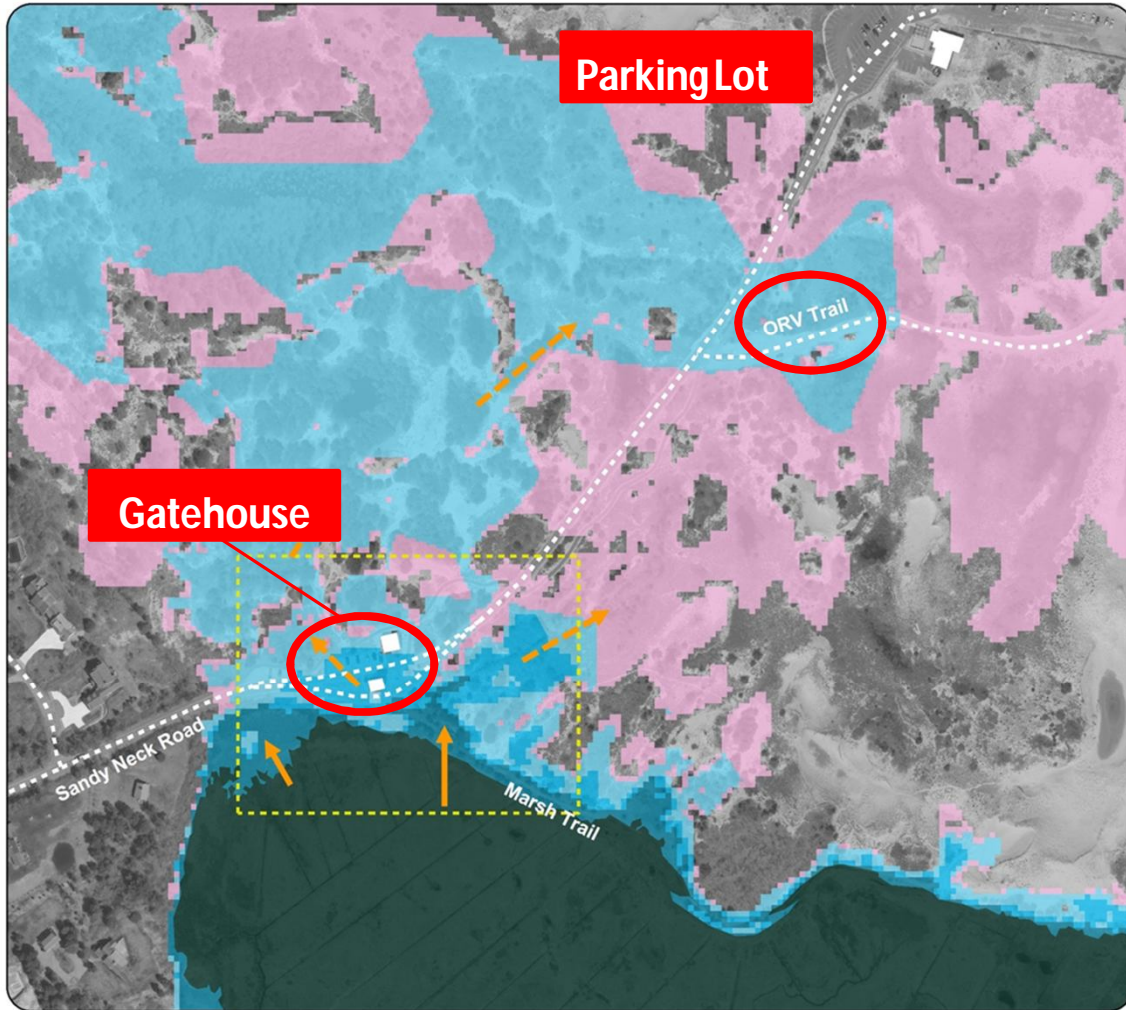
Greyson - Jan. 2018

Previous Erosion Analysis

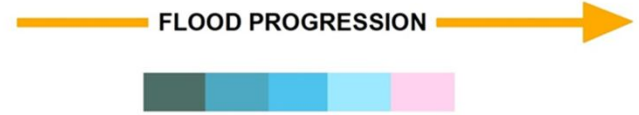
- Predicted dune location in 50-yrs
- Identified that moving ORV is beneficial to reduce habitat fragmentation
- Recommended that infrastructure be moved behind the 50-yr dune line



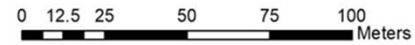




Present Day



**Sandy Neck Beach
Barnstable, MA**



Project Goals

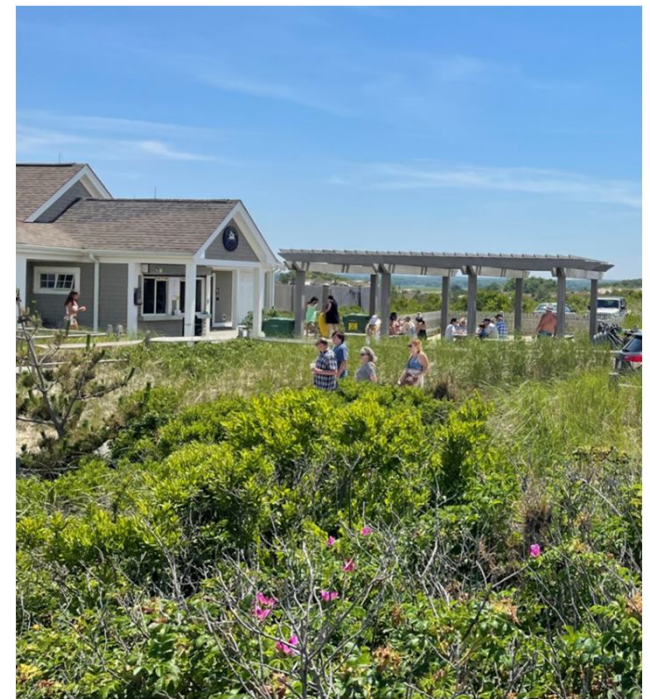
Long-term alternatives must meet all of the following criteria:

- Support current uses
- Address coastal vulnerability
- Sustainable for at least 50 years
- Enhance & protect coastal resources
- Economically viable
- Permittable under current regulations

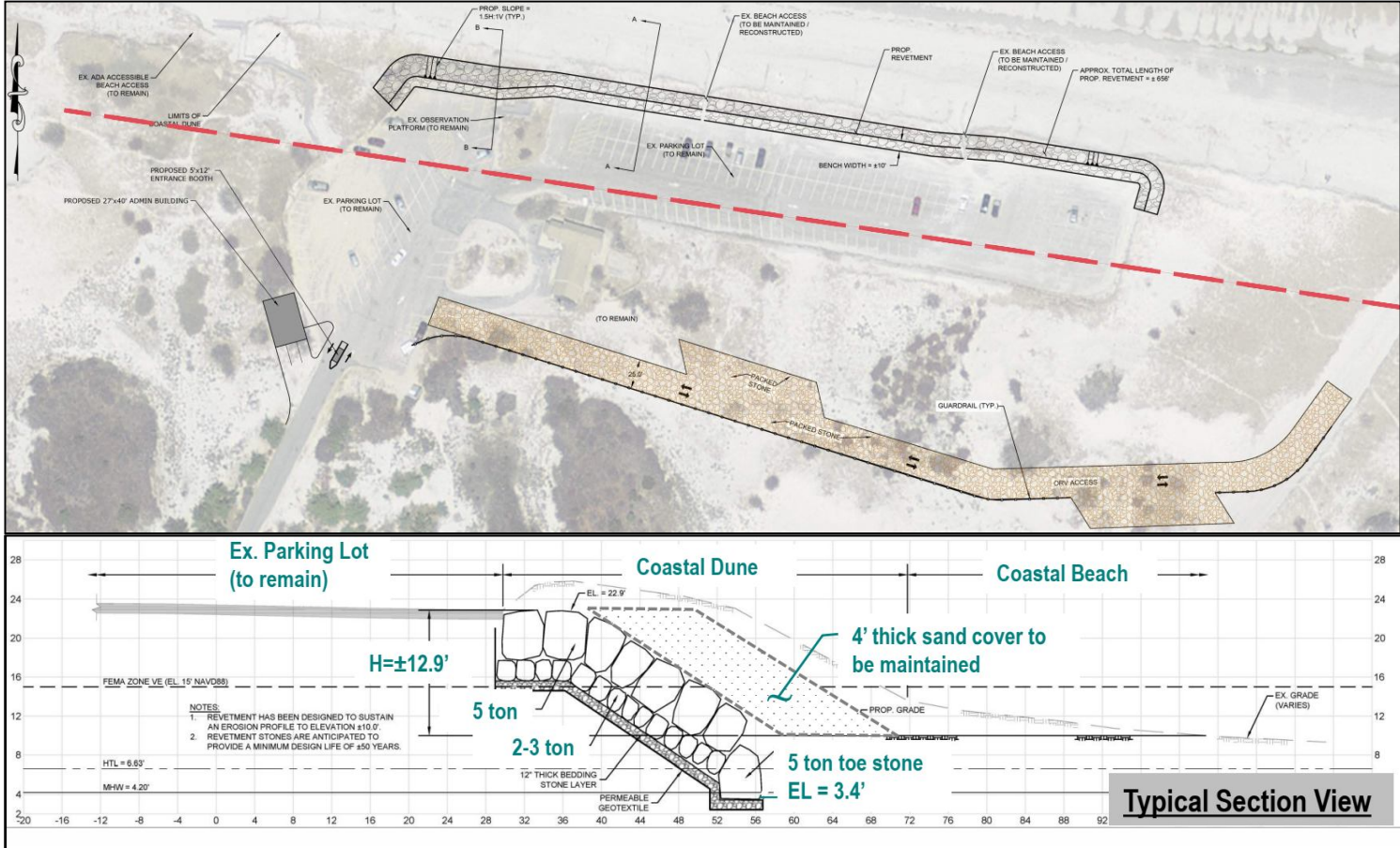


Alternatives Selected for Further Analysis

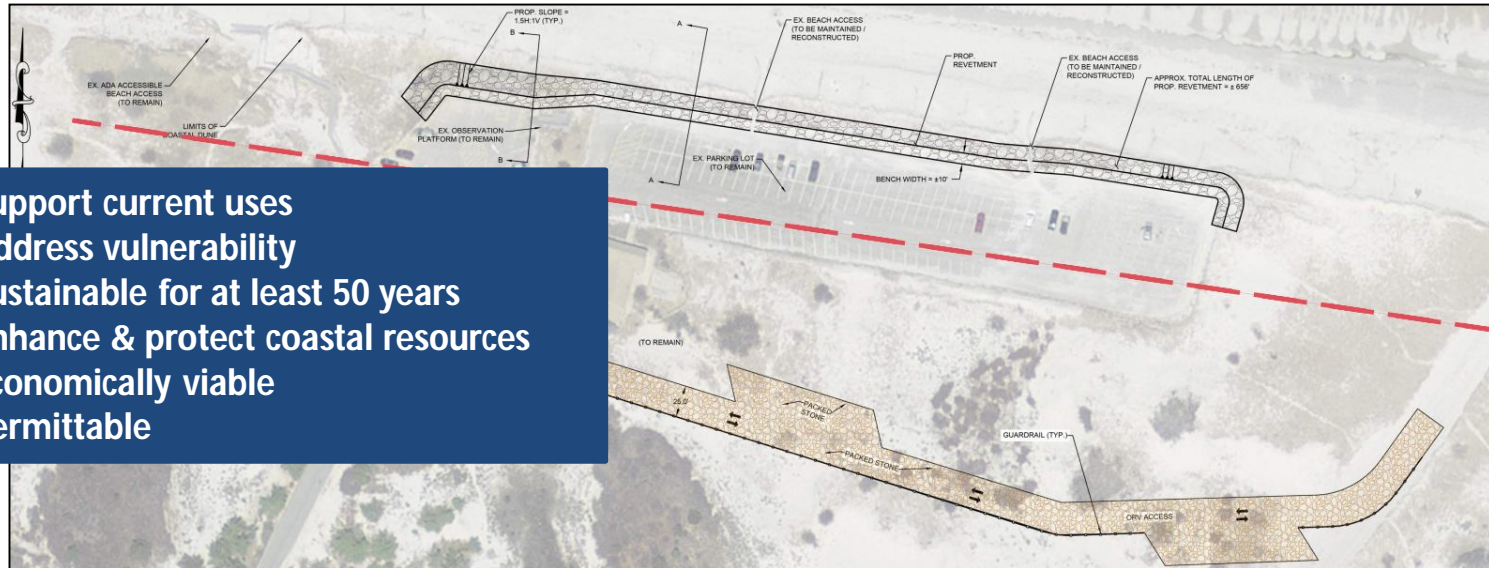
1. **Stone Revetment with Vegetated Sand Cover**
2. **Partial Relocation of Parking Lot with Enhanced Dune**
3. **Full Relocation of Parking Lot with Enhanced Dune**



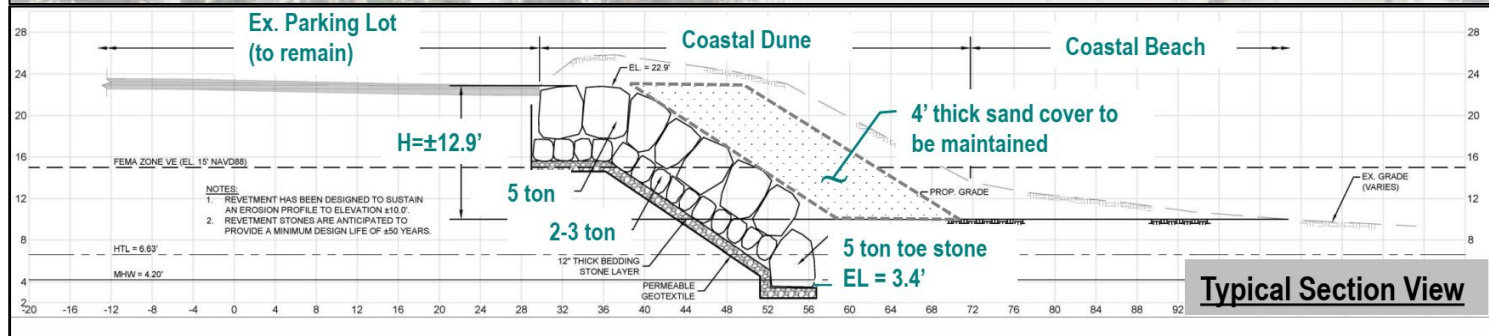
Stone Revetment with Vegetated Sand Cover



Stone Revetment with Vegetated Sand Cover



- ✓ Support current uses
- ✗ Address vulnerability
- ✗ Sustainable for at least 50 years
- ✓ Enhance & protect coastal resources
- ✗ Economically viable
- ✗ Permittable



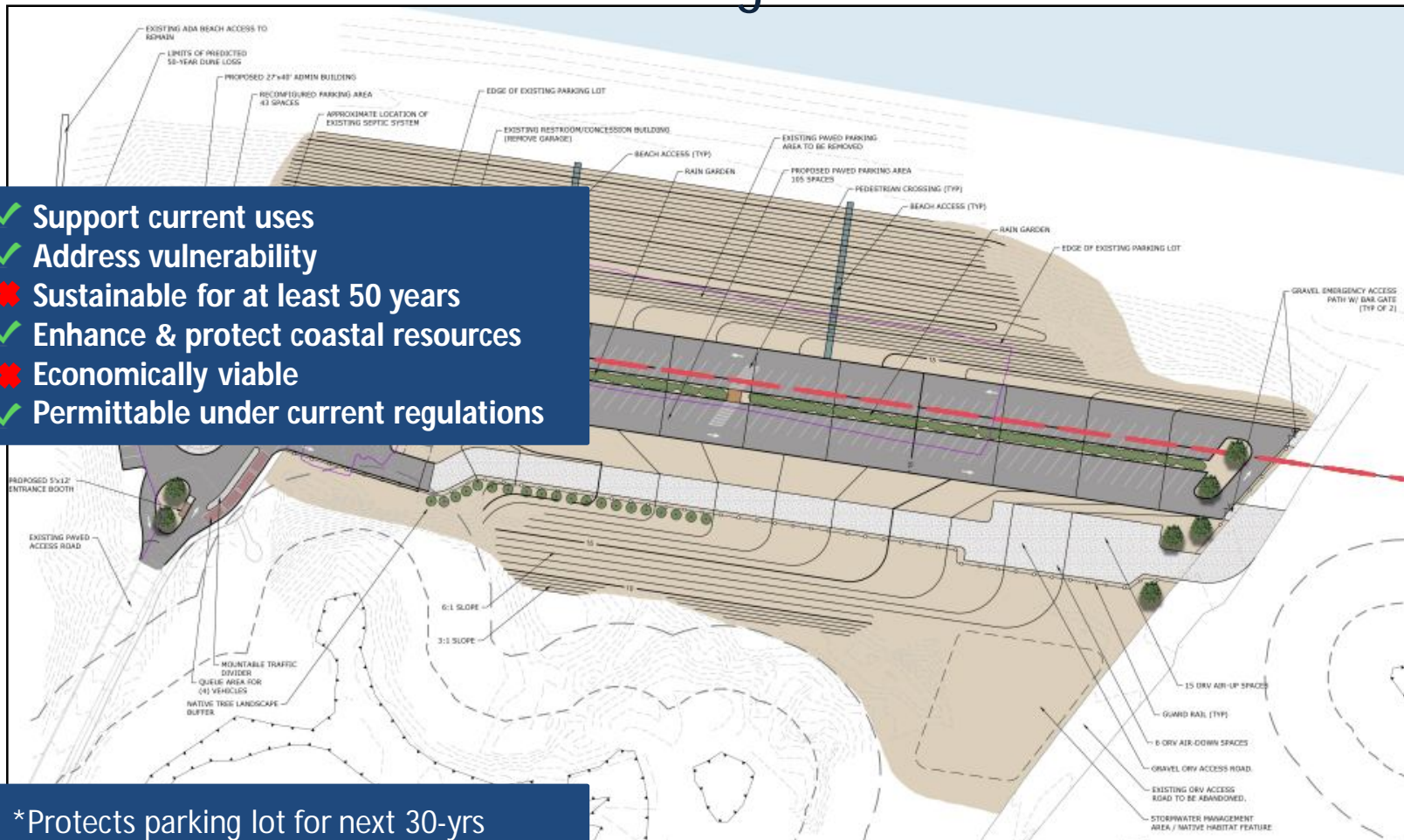
Partial Relocation of Parking Lot with Enhanced Dune



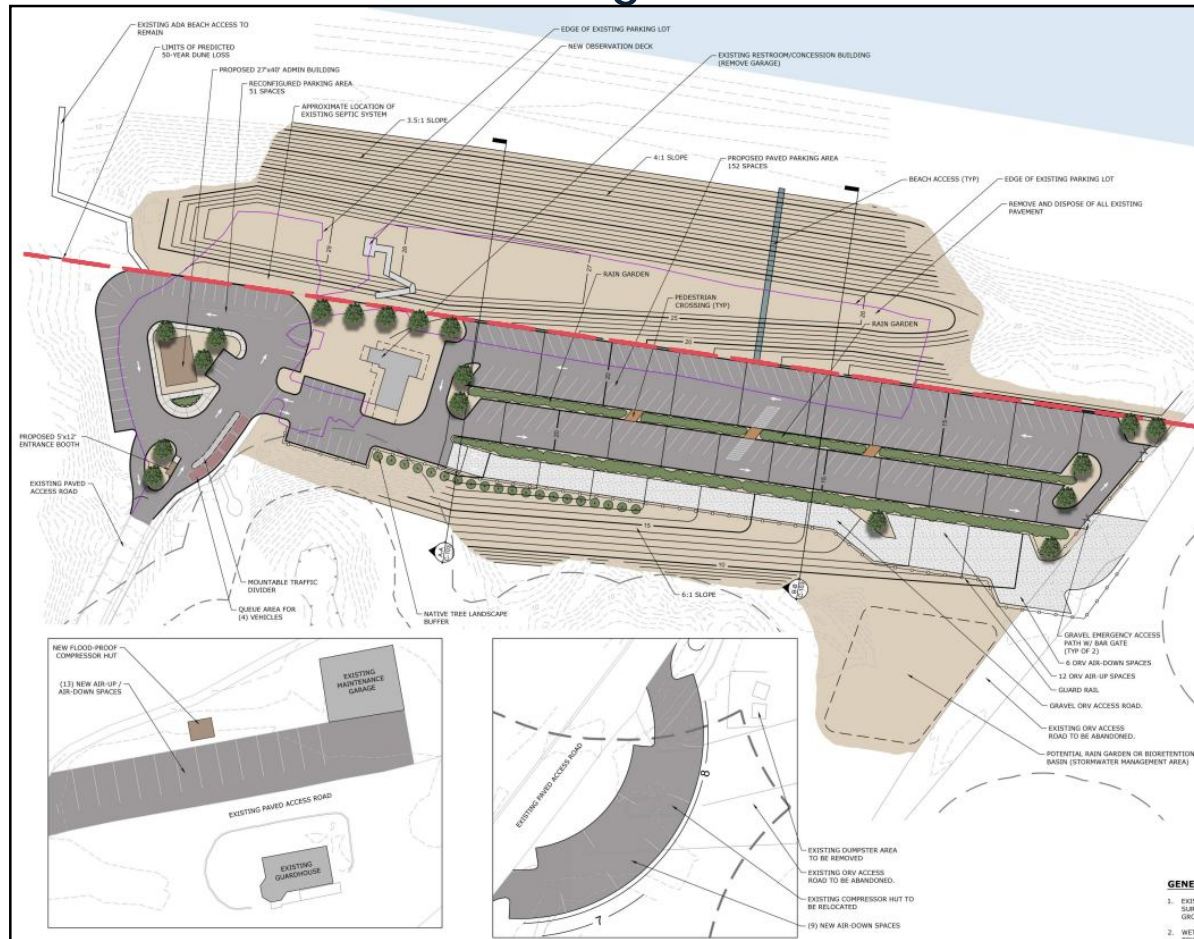
Partial Relocation of Parking Lot with Enhanced Dune

- ✓ Support current uses
- ✓ Address vulnerability
- ✗ Sustainable for at least 50 years
- ✓ Enhance & protect coastal resources
- ✗ Economically viable
- ✓ Permittable under current regulations

*Protects parking lot for next 30-ys

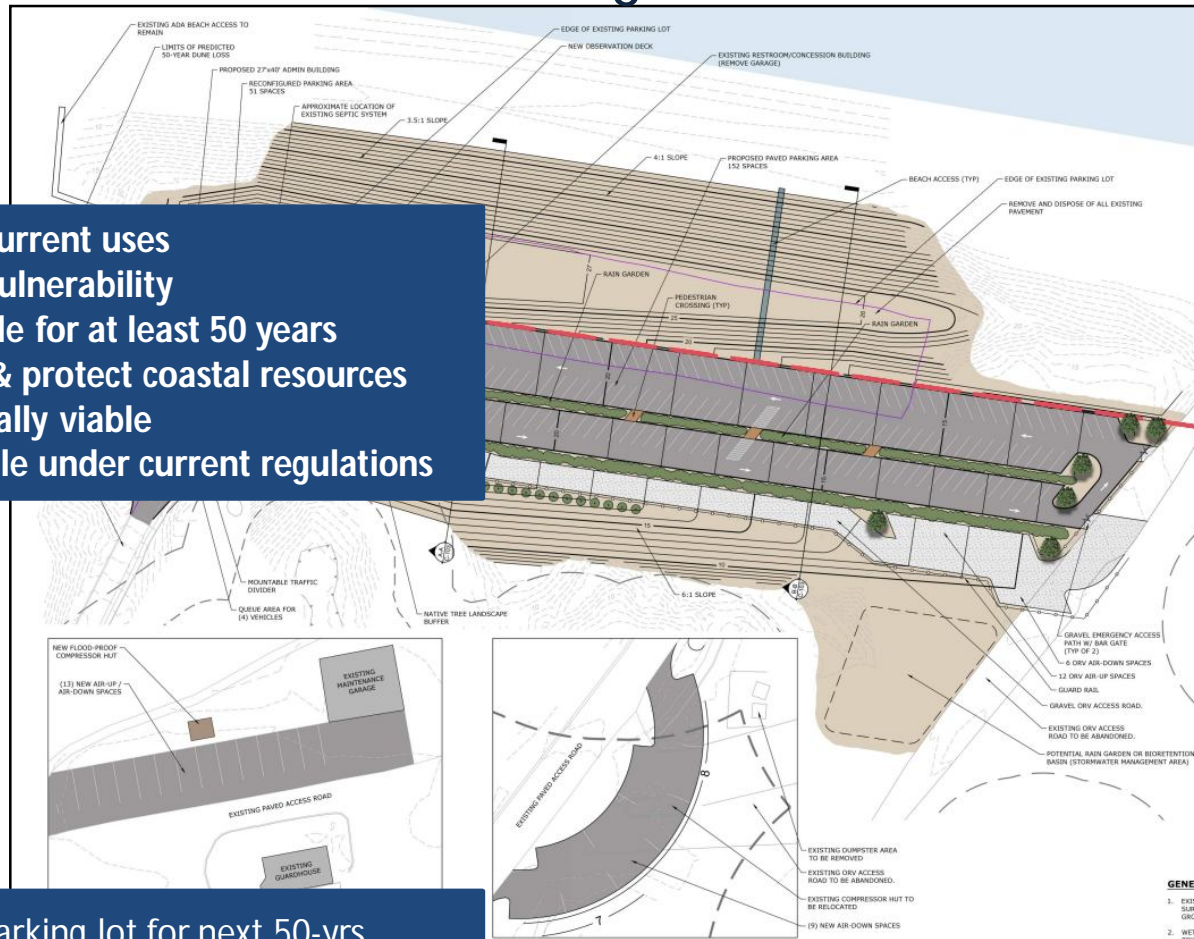


Full Relocation of Parking Lot with Enhanced Dune



Full Relocation of Parking Lot with Enhanced Dune

- ✓ Support current uses
- ✓ Address vulnerability
- ✓ Sustainable for at least 50 years
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*Protects parking lot for next 50-yrs

Existing Condition – Easterly View



Proposed Full Relocation – Easterly View



Existing Condition – Holway Drive View



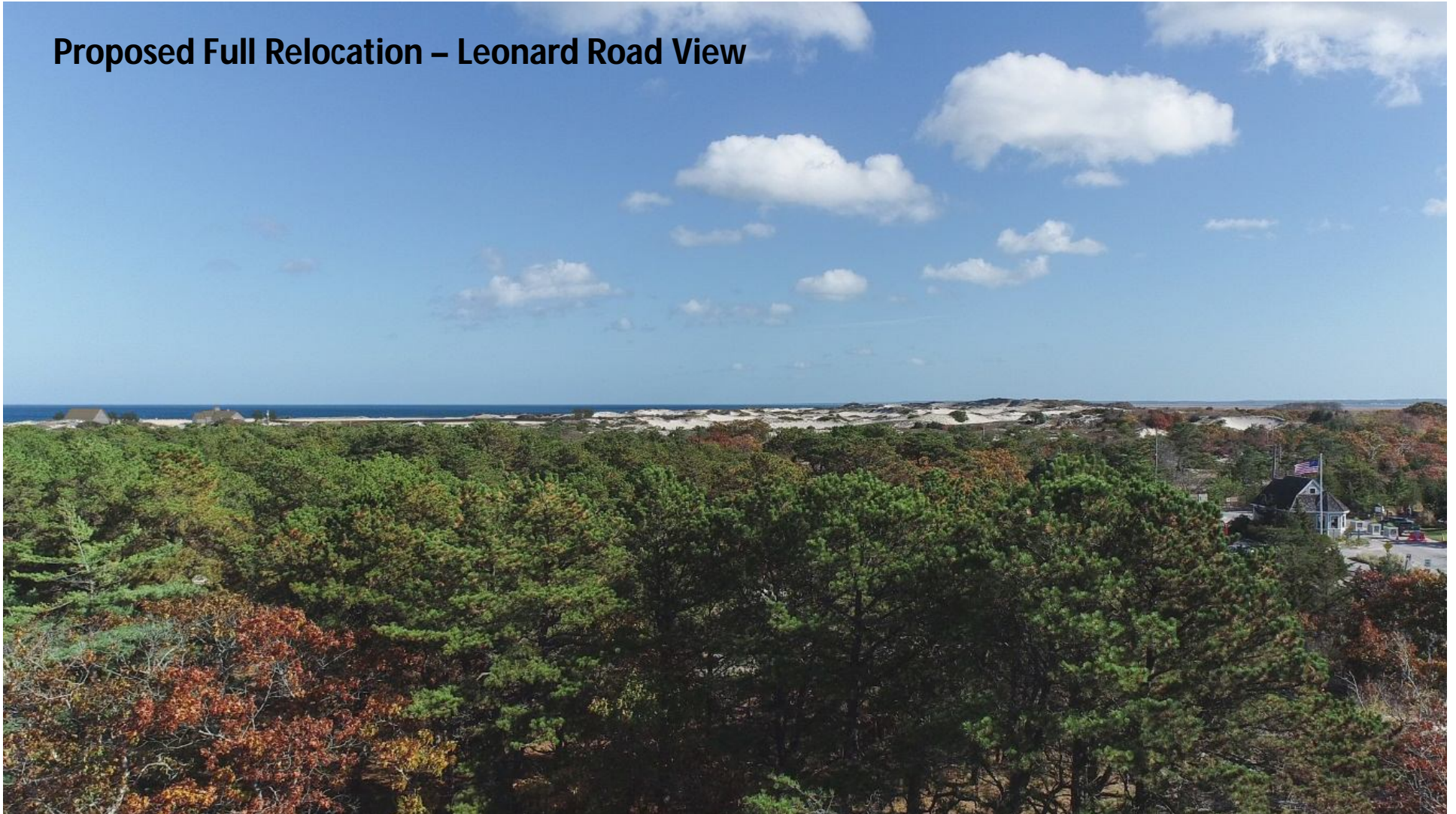
Proposed Full Relocation – Holway Drive View



Existing Condition – Leonard Road View



Proposed Full Relocation – Leonard Road View



Existing Condition – Westerly View



Proposed Full Relocation – Westerly View



Existing Condition – Cape Cod Bay View



Proposed Full Relocation – Cape Cod Bay View



Next Steps

- Now: Accepting public comment
Comments due by: January 24, 2023
Email: Amber Unruh at Amber.Unruh@town.barnstable.ma.us
- Winter 2023: Preliminary Design of the Selected Alternative
- Spring 2023: Public Presentation of Preliminary Design
- Spring / Summer 2023: Initiate Permitting Preliminary Design



An aerial photograph of a coastal town, likely Barnstable, Massachusetts. The image shows a large body of water (the harbor) in the center, with a river flowing into it from the top. The town is built on a peninsula, with a mix of green fields, brownish areas, and buildings. The water is a deep blue-green color. The sky is a pale, hazy blue.

Email: Amber Unruh at Amber.Unruh@town.barnstable.ma.us

Questions or Feedback?