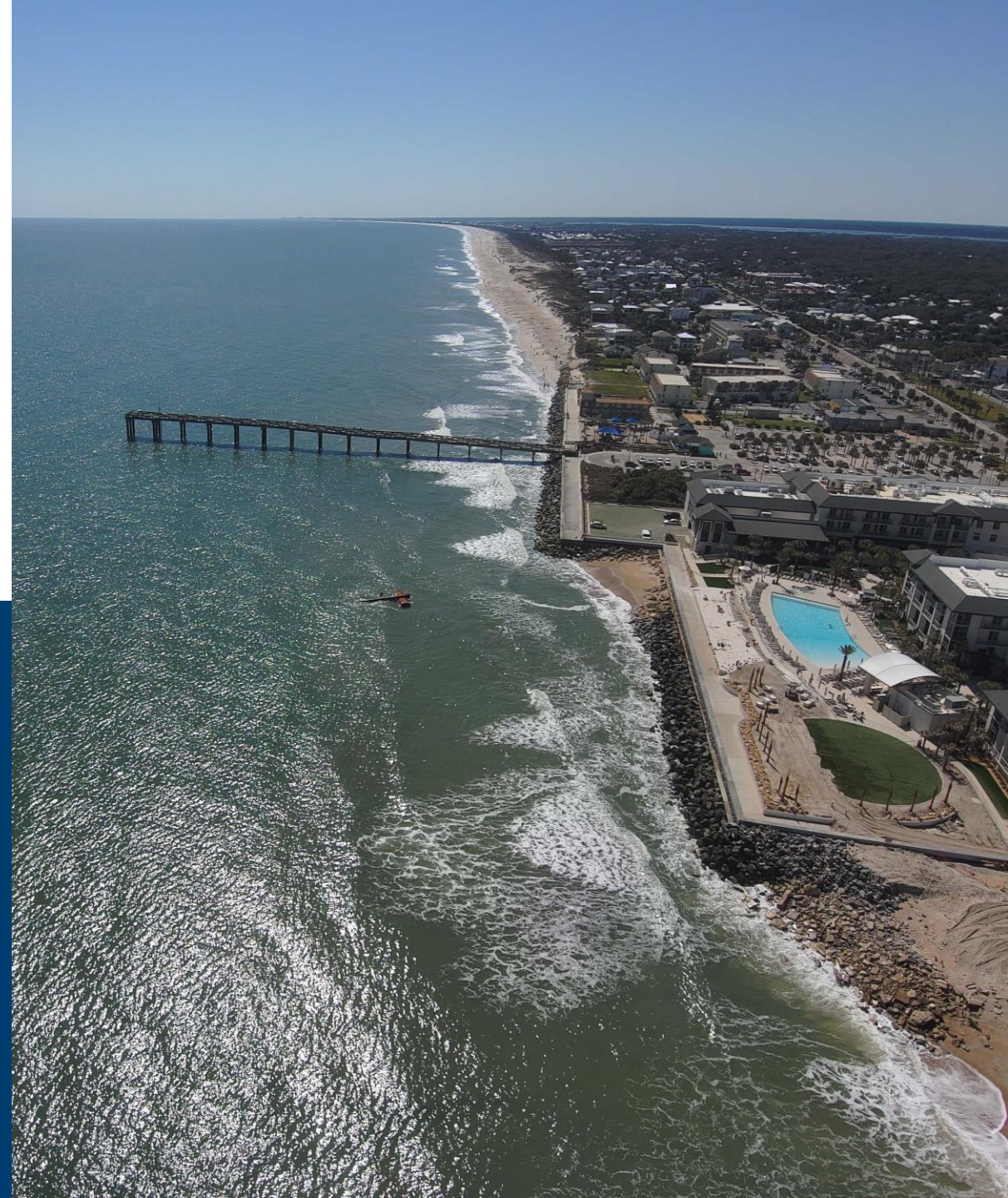




USACE Shore Protection Project

St. Johns County Coastal Management
May 14, 2025



PRESENTATION AGENDA

Background

Easements

Dune Adoption

FAQs

Summary

Questions



Project Details

Partnership with USACE, federally authorized project:

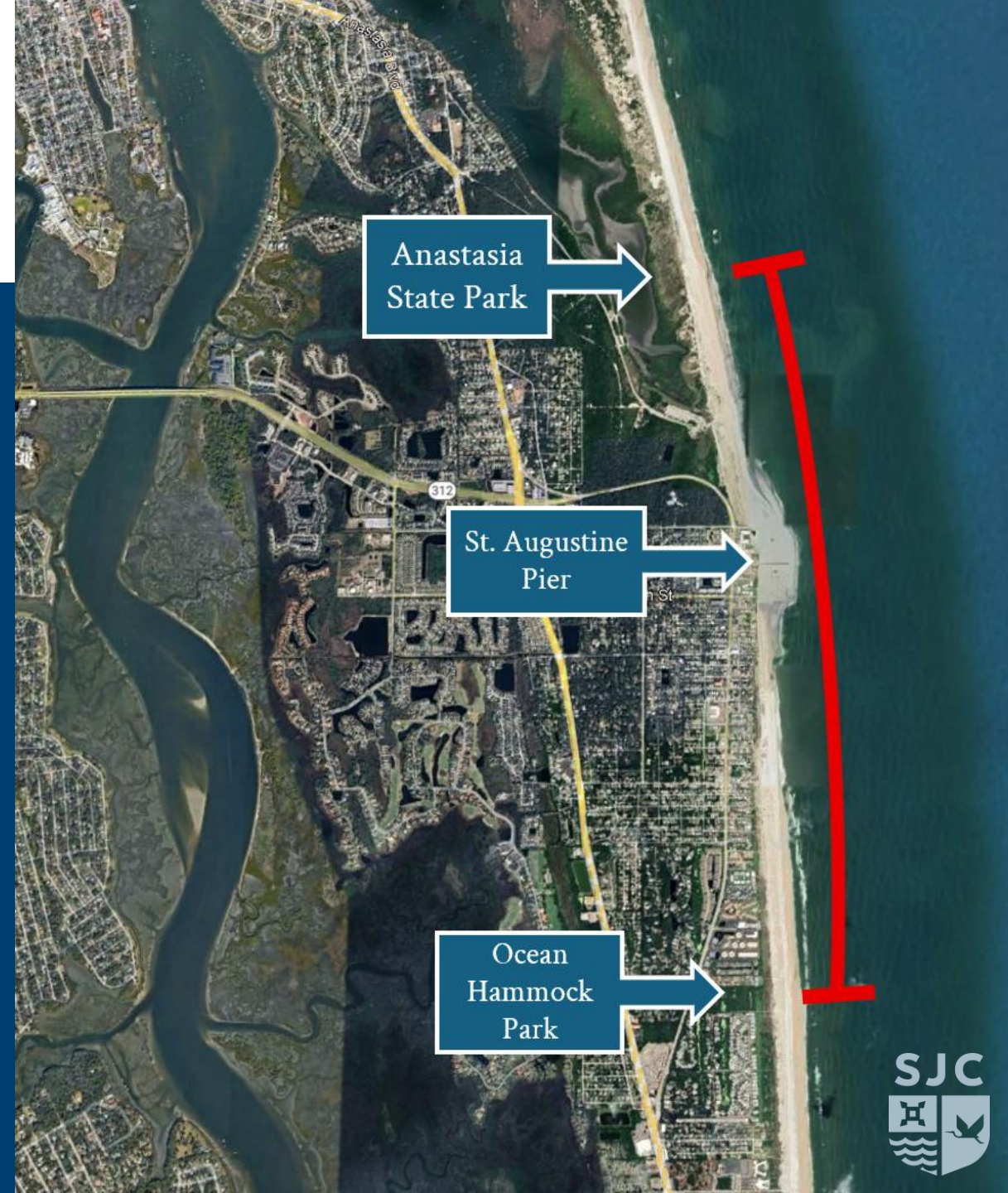
- Extent- Anastasia State Park to Ocean Hammock Park
- Length- 2.7 miles
- 60 ft berm extension at +9.0 ft NAVD88 (berm only, no dune)
- Renourishment interval- 5 years, or sooner if warranted

Borrow Area(s):

- St. Augustine Inlet Channel and Ebb Shoal
- S1 offshore borrow area (federal waters)

Cost Share:

- 80.5% Federal, 8.5% State, 11% County
- Eligible for 100% federally-funded emergency renourishment through Flood Control and Coastal Emergencies (FCCE)





Project History

2003- 3.8 million cy (initial construction)

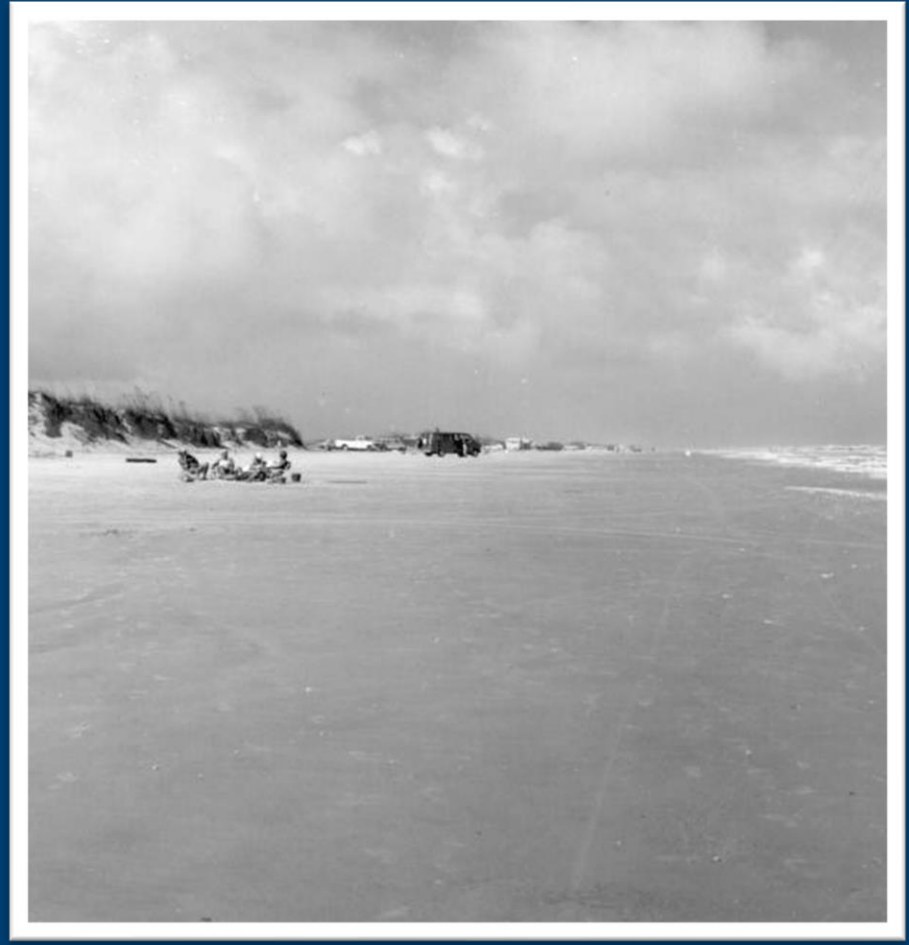
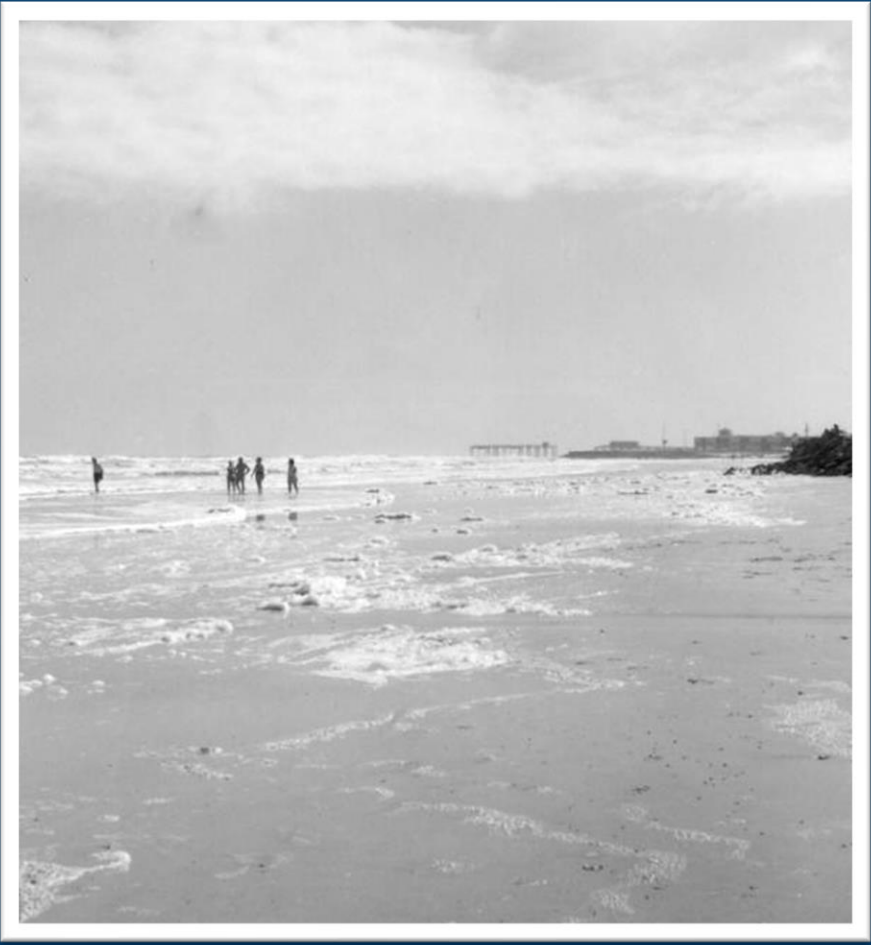
2005- 2.8 million cy (FCCE)

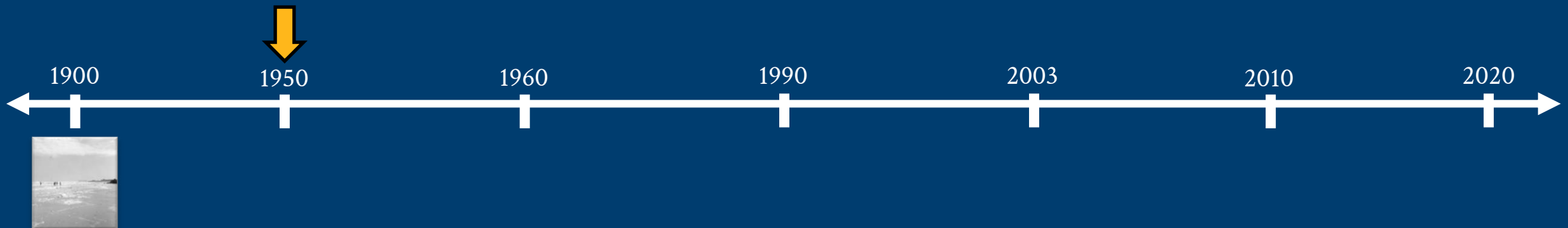
2012- 2.1 million cy

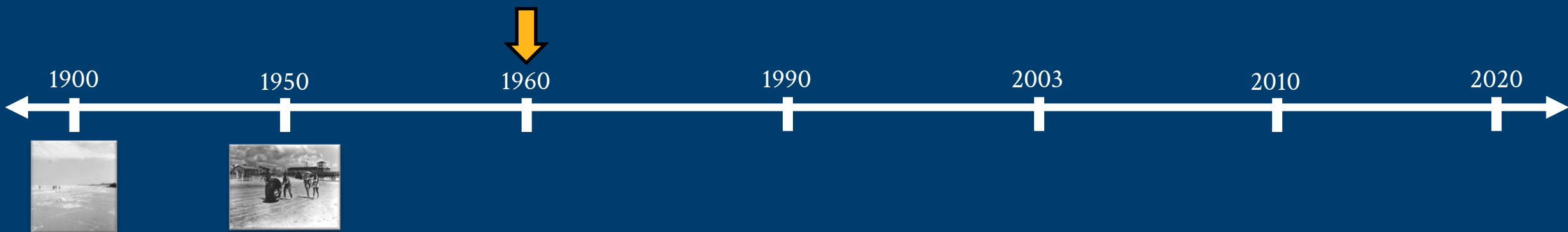
2018- 750,000 cy

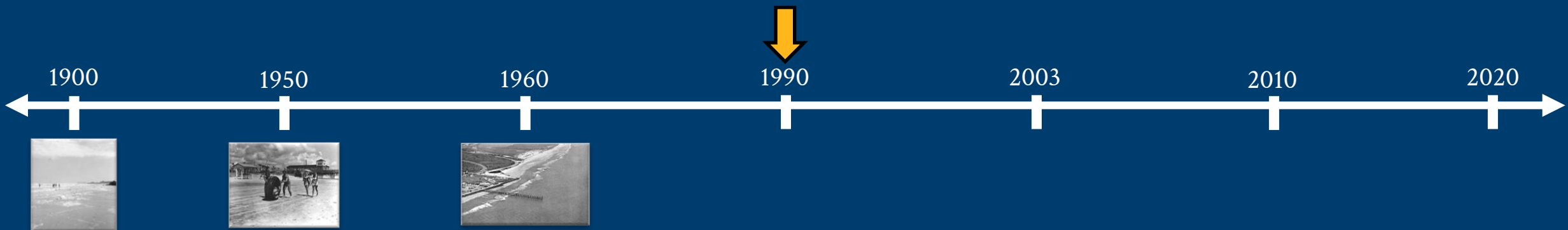
2024- 2.5 million cy (FCCE)

TOTAL: approx. 12 million cy









1900

1950

1960

1990

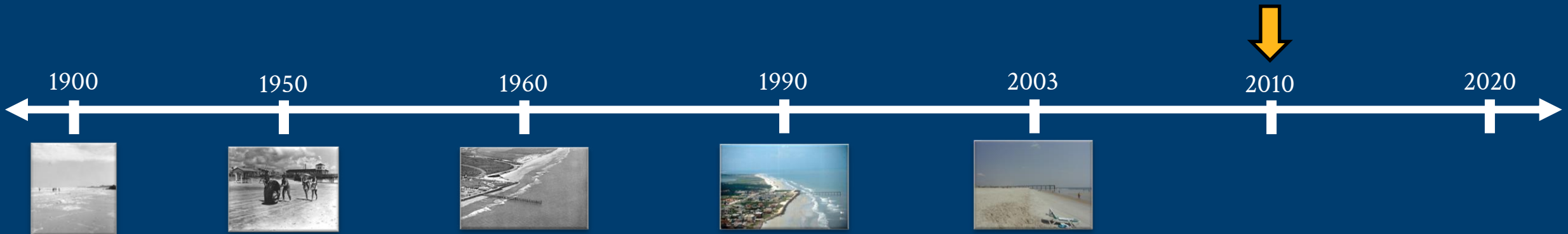
2003

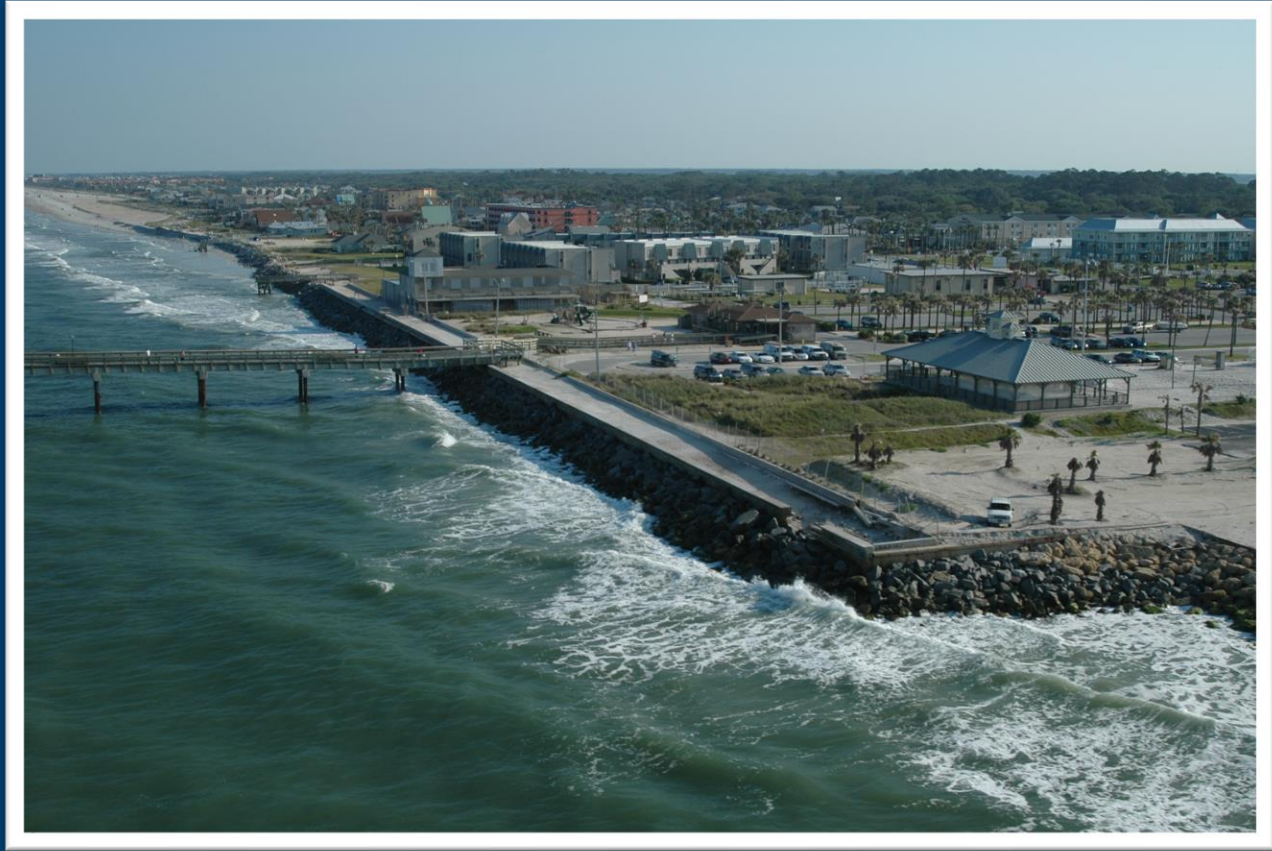
2010

2020











1900



1950



1960



1990



2003



2020



2020



Pre-Construction



Post-Construction



St. Johns County Shore Protection Project FCCE Nourishment 2024

Pre-Construction



Post-Construction



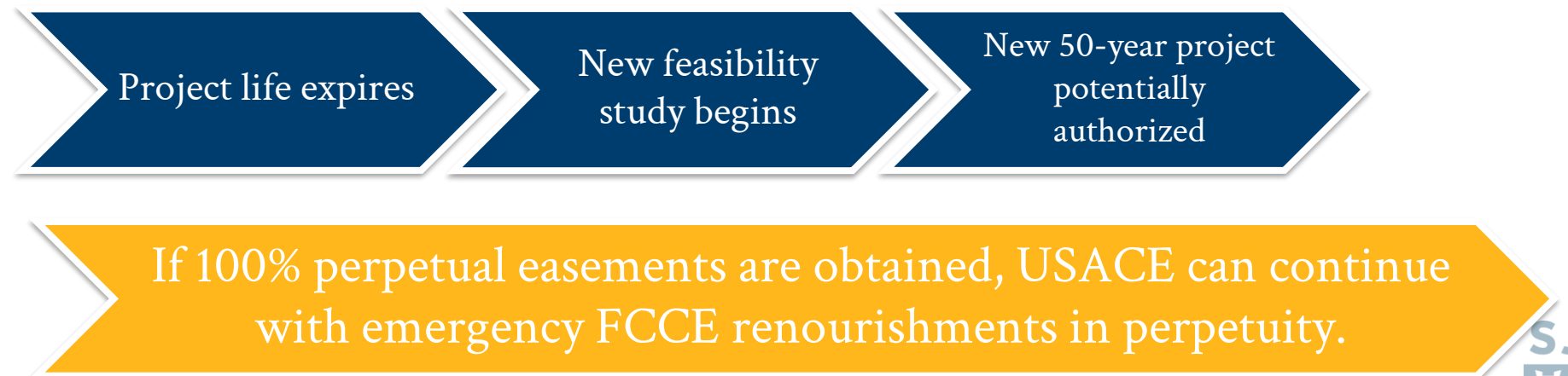
St. Johns County Shore Protection Project FCCE Nourishment 2024

USACE Project Life

The current project life extends through 2053.

- Once expired, a new feasibility report is completed, to determine if a future 50-year project is feasible.
- Between expiration in 2053 and the new study being completed, USACE can continue with emergency FCCE renourishments, as warranted and appropriated, **as long as 100% perpetual easements are in place.**
- FCCE renourishments are authorized in perpetuity, **as long as 100% perpetual easements are in place.**

The current 50-year project life extends through 2053, then...:



USACE's Easement Requirement

The current 50-year easements are no longer sufficient; the USACE is requiring 100% perpetual easements to be obtained, per the 2022 Water Resources Development Act (WRDA).

Currently, NO RENOURISHMENT will occur without 100% perpetual easements in place.

"The required real estate interests and all supporting documentation must be obtained by St. Johns County and approved by USACE prior to budgeting or constructing any future renourishments to include 5-year scheduled renourishments or emergency renourishments under Public Law 84-99 for Flood Control and Coastal Emergencies (FCCE)." –Colonel, US Army District Commander, DOD



Erosion Control Line vs. Landward Limit of Fill



Erosion Control Line (ECL): how far seaward private property extends.

Landward Limit of Fill (LLOF): how far landward work can occur.

Erosion Control Line vs. Landward Limit of Fill

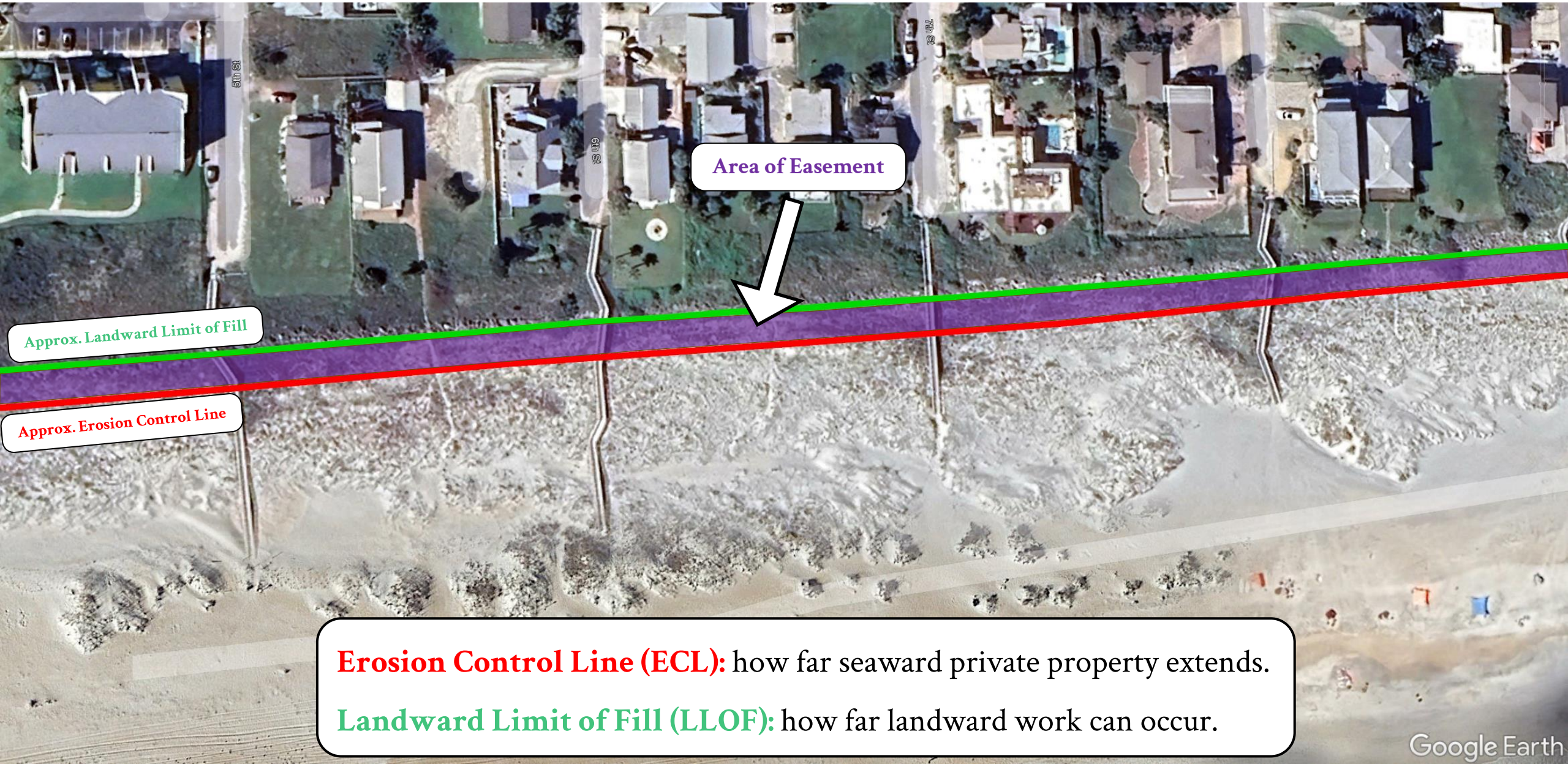


Approx. Erosion Control Line

Erosion Control Line (ECL): how far seaward private property extends.

Landward Limit of Fill (LLOF): how far landward work can occur.

Erosion Control Line vs. Landward Limit of Fill



Area of Easement

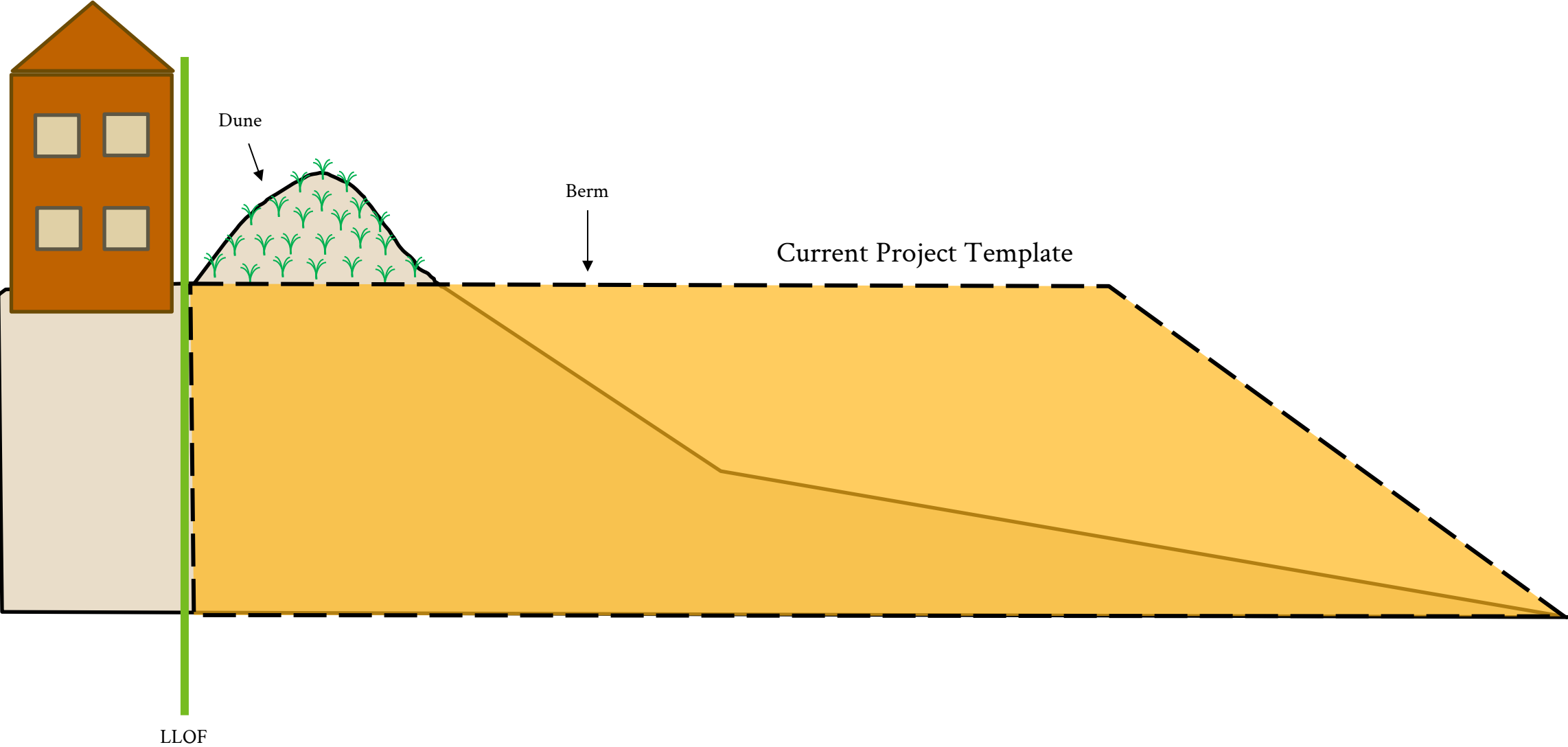
Approx. Landward Limit of Fill

Approx. Erosion Control Line

Erosion Control Line (ECL): how far seaward private property extends.

Landward Limit of Fill (LLOF): how far landward work can occur.

Current Project Template



USACE Dune Adoption

The current project template does not allow the dune to be re-built.

The Engineering Documentation Report (EDR) from USACE documents how the project can be adapted to increase project resilience, by incorporating design refinements to the existing project.

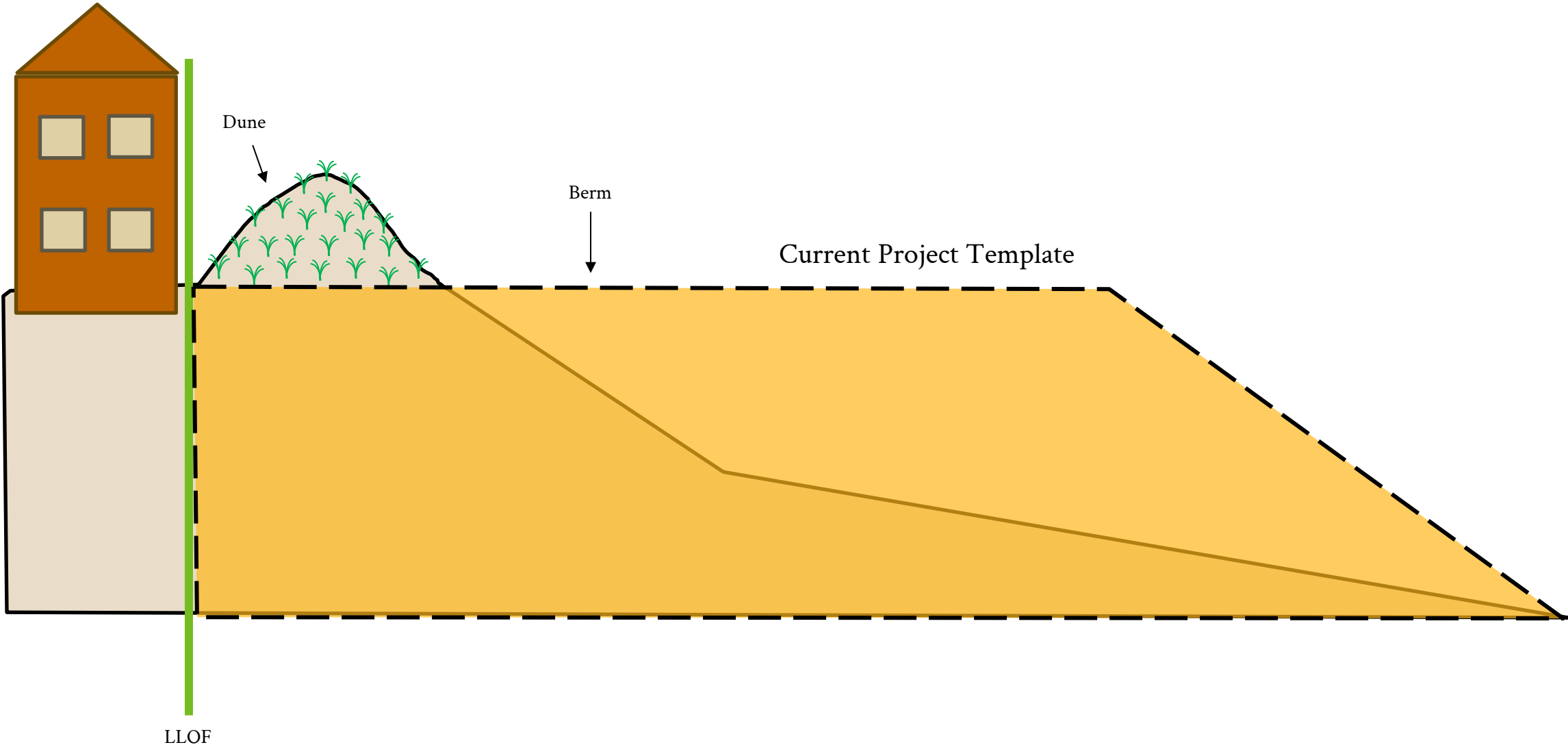
This recommends the adoption of the existing dune feature into the project template.

If the project continues with 100% perpetual easements, the existing dune will be adopted to the project template.

Current Project Template

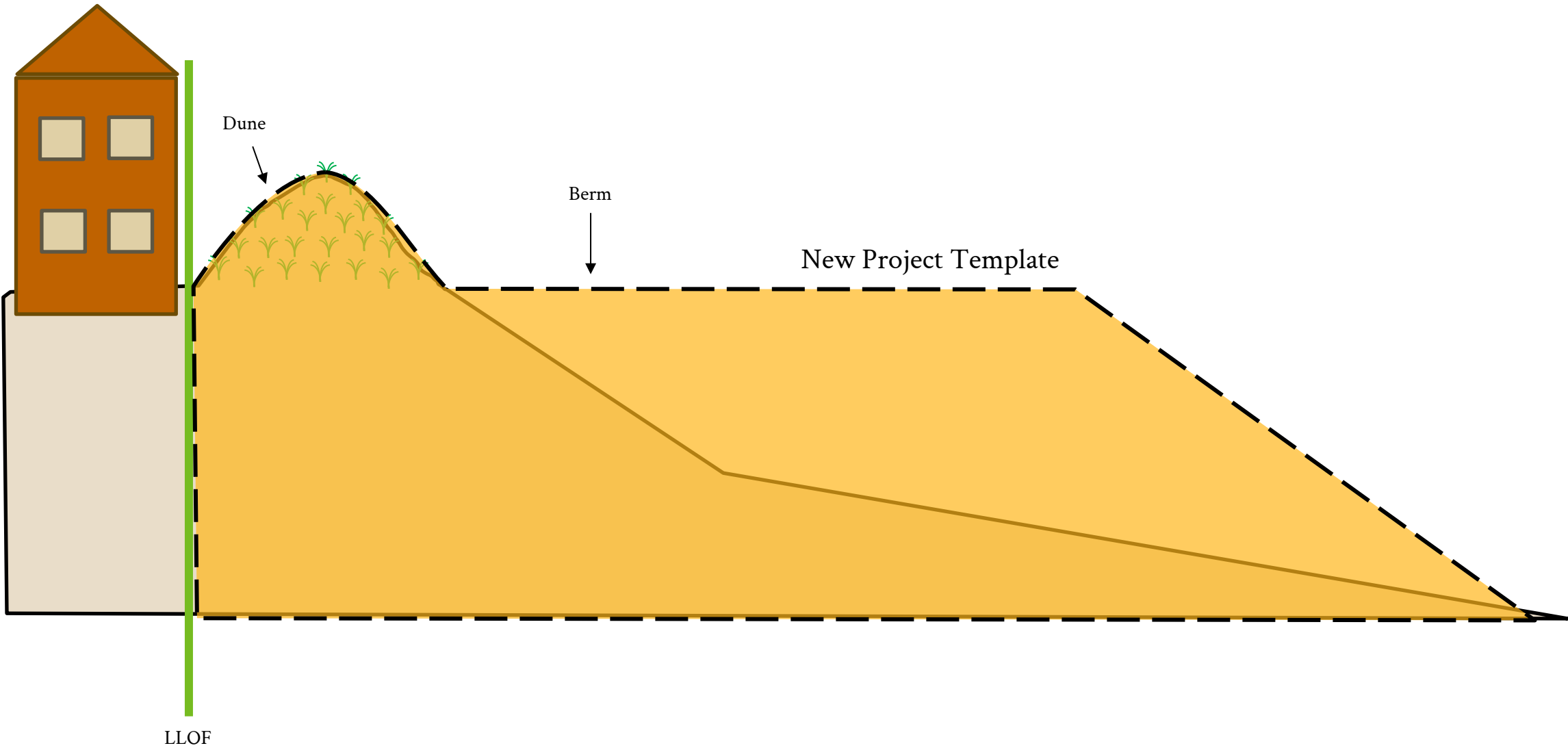
Graphic is for demonstration purposes only.

Drawn lines and shaded area are not exact.

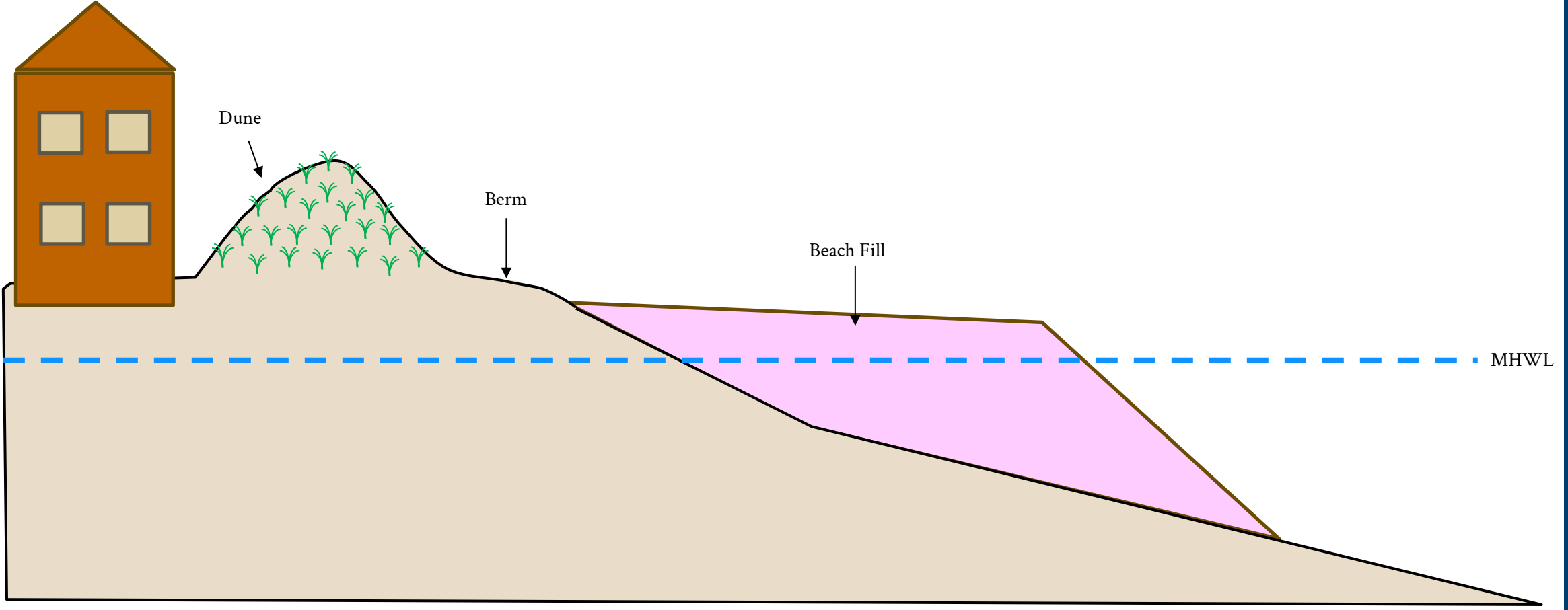


New Project Template

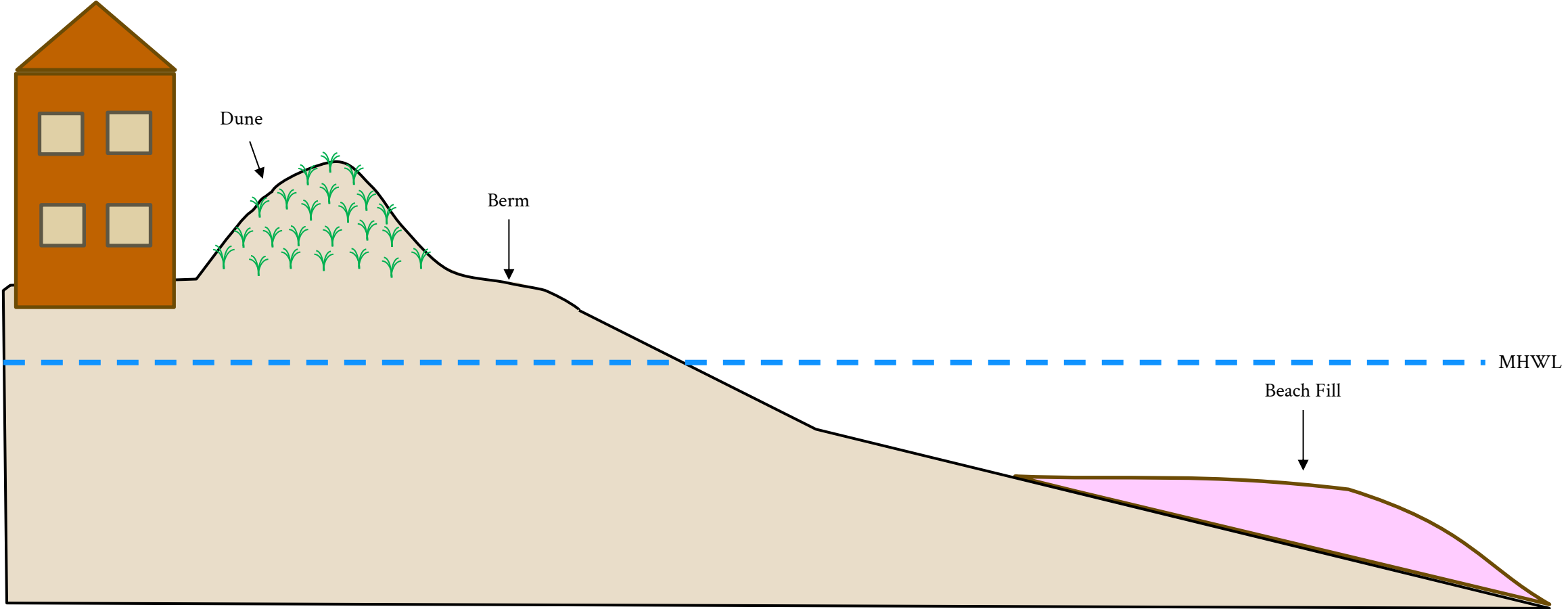
Graphic is for demonstration purposes only.
Drawn lines and shaded area are not exact.



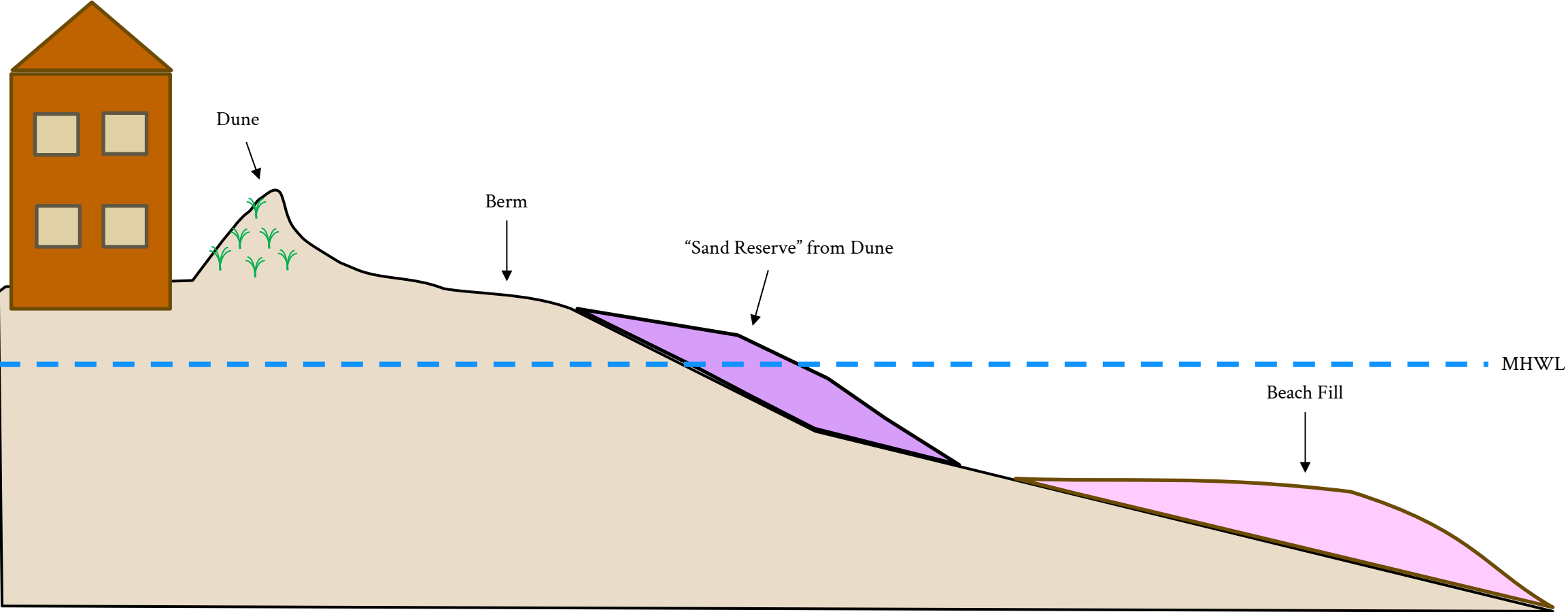
Dune & Berm Interaction: Pre-Storm



Dune & Berm Interaction: During Storm



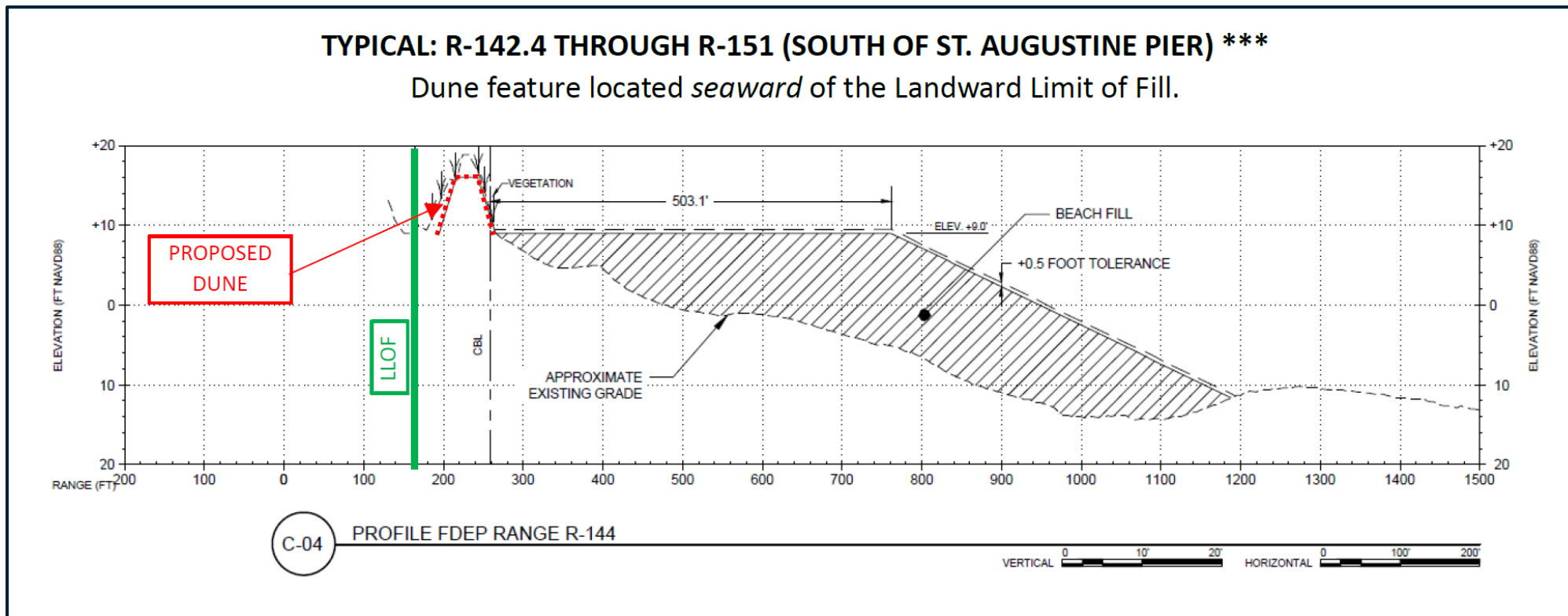
Dune & Berm Interaction: Post-Storm



Dune Specifications

- Only south of the Pier seawall
- Adopted dune footprint is within the existing main dune system
- Seaward of the already-existing LLOF (same landward limit as the 50-year easements)
- Dune replenishment will be included in the project renourishment on an as-needed basis

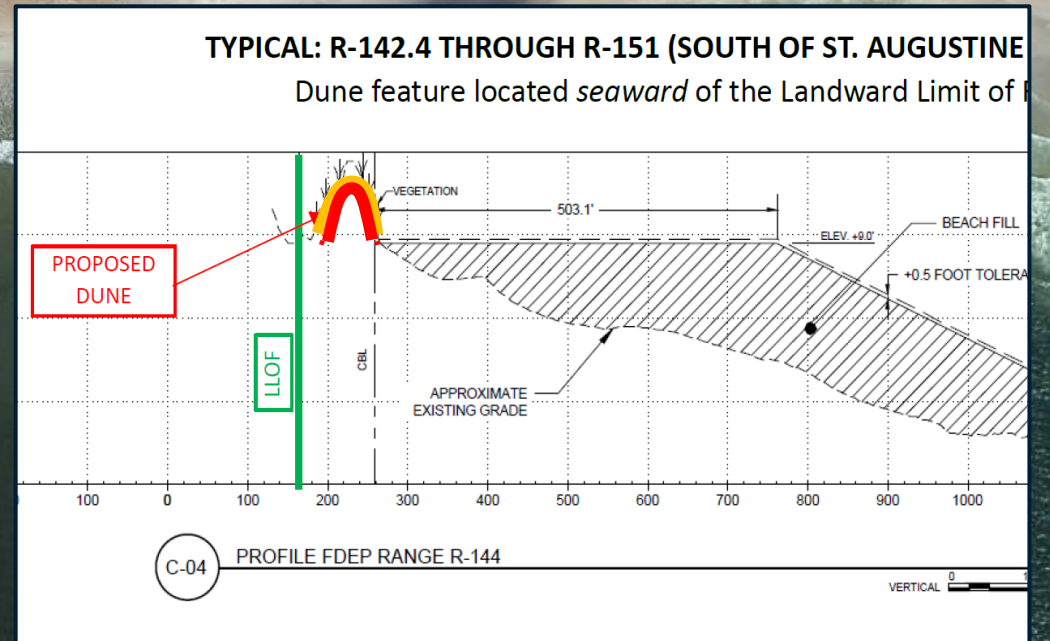
Dune Crest Width	25 feet
Dune Elevation	+16 feet NAVD88
Dune Slope	1V:3H





Proposed Adopted Dune

Approx. Landward Limit of Fill



Graphic is for demonstration purposes only.
Drawn lines and shaded area are not exact.

Frequently Asked Questions

1. Can I still do work within the area of easement (like to fix my dune walkover)?

YES- The easement will not impact ability to obtain DEP permit to work on walkovers.

2. Would this allow the public to be on the area of easement?

YES- Although, there is already an Ordinance in place (County Beach Code) that allows the public to utilize the beach up to the dune.

3. Will the dune be planted?

YES- Native vegetation will be planted on any renourished dune (sea oats, panic grass, etc.)

4. How tall will the dune be?

The re-built dune will not be any taller than the existing dune.

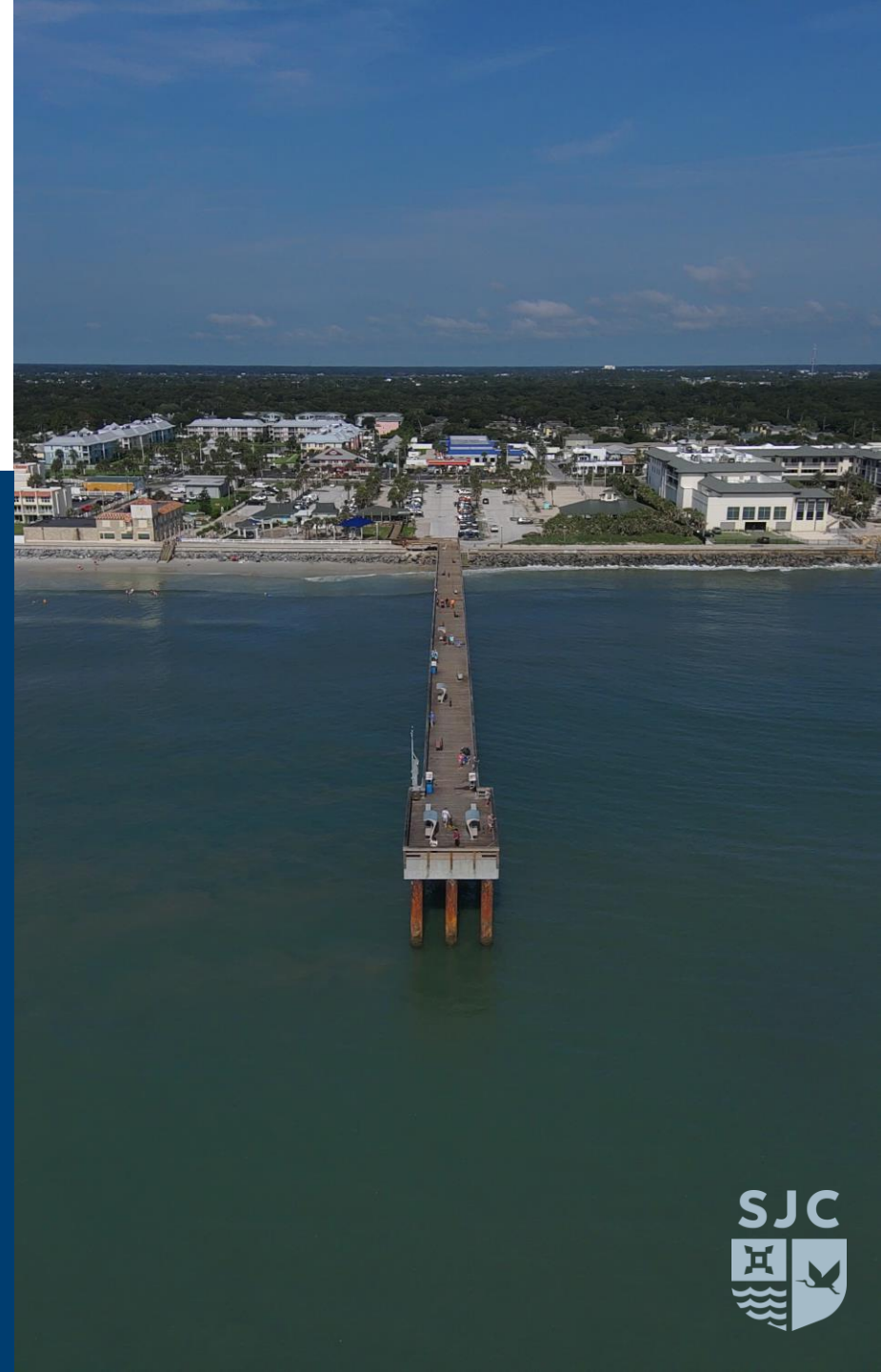
In Summary...

100% PERPETUAL EASEMENTS ARE REQUIRED for the project to continue.

- Hurricane season officially begins June 1.
- Would also allow for continuance of FCCE renourishment in perpetuity when the project expires Jan 2053.

The existing dune will be adopted into the project template moving forward.

- Within existing dune footprint
- Provides additional storm protection and sand reserve





Questions & Comments?



Easements/Notary

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