

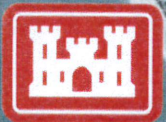
# EDISTO BEACH

## Coastal Storm Damage Reduction Project

Public Meeting  
Federal Project Path Forward

Presented by:  
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**Senior Project Manager**

U.S. Army Corps of Engineers  
Charleston District  
August 9, 2018



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# Outline

- Federal Project Overview
- 2017 Work completed by the Non-Federal Sponsor (NFS)
- Bipartisan Budget Act of 2018 (Public Law 115-123) and the Long Term Disaster Recovery Investment Plan
- Getting to “Ready to Advertise” (RTA) for Construction Contract
- Next Steps
- Takeaways



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# Federal Project Overview

## Historic Activities:

Construction of groins: Began in 1948 at north end and continued southward until 1975

1954: SC Highway Department nourished Edisto with approx 830K cy from marsh behind island (not beach compatible)

1995: 155K cy of fill placed between groins 1 -17 and groins 24 – 28.

2006: 850K cy of fill placed from State Park to groin 27

Additional work performed by the Town of Edisto Beach,



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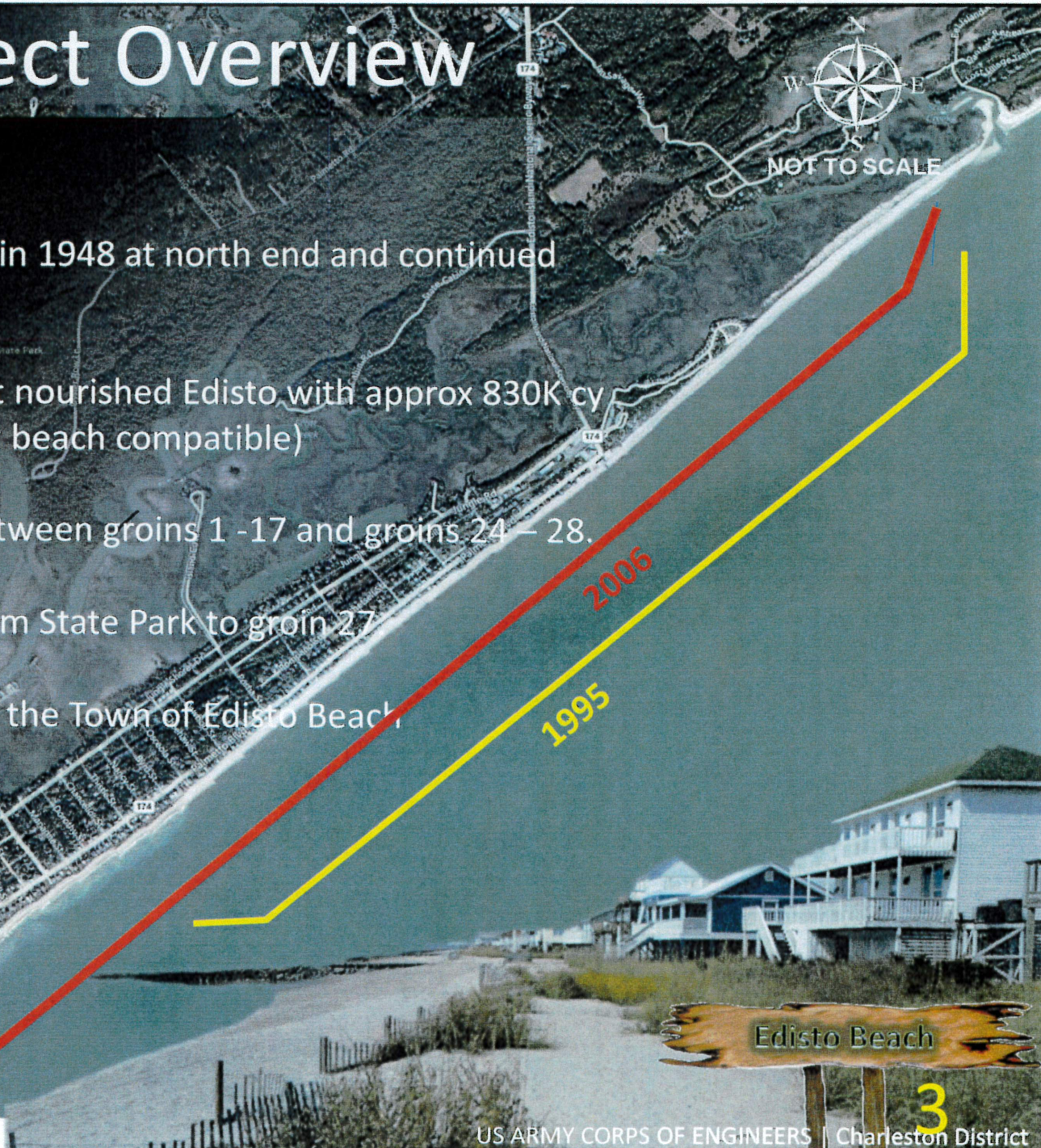
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2006

1995



# Project Reaches



# Authorized Federal Project

## Features include:

**DUNE:** 5,290 ft long, 14 ft high, 15 ft wide vegetated dune along the Inlet Reach, followed by a 16,530 ft long, 15 ft high, 15 ft wide vegetated dune along Atlantic Reaches.

**BERM:** 16,530 ft berm built at the existing berm height (7ft). The berm would start at the Atlantic Reach South (15 ft high dune), and would gradually taper over 1,900 ft into a 50 ft wide berm that would extend 6,330 ft along the Atlantic Reaches. The berm would widen over another 560 ft into a 75 ft wide berm that would extend 7,740 ft to Groin 1.

**GROINS:** 1,130 ft of total groin lengthening across 23 of the existing groins.

**RENOURISHMENT CYCLE:** Every 16 years. (As needed and agreed upon by EB and Corps)



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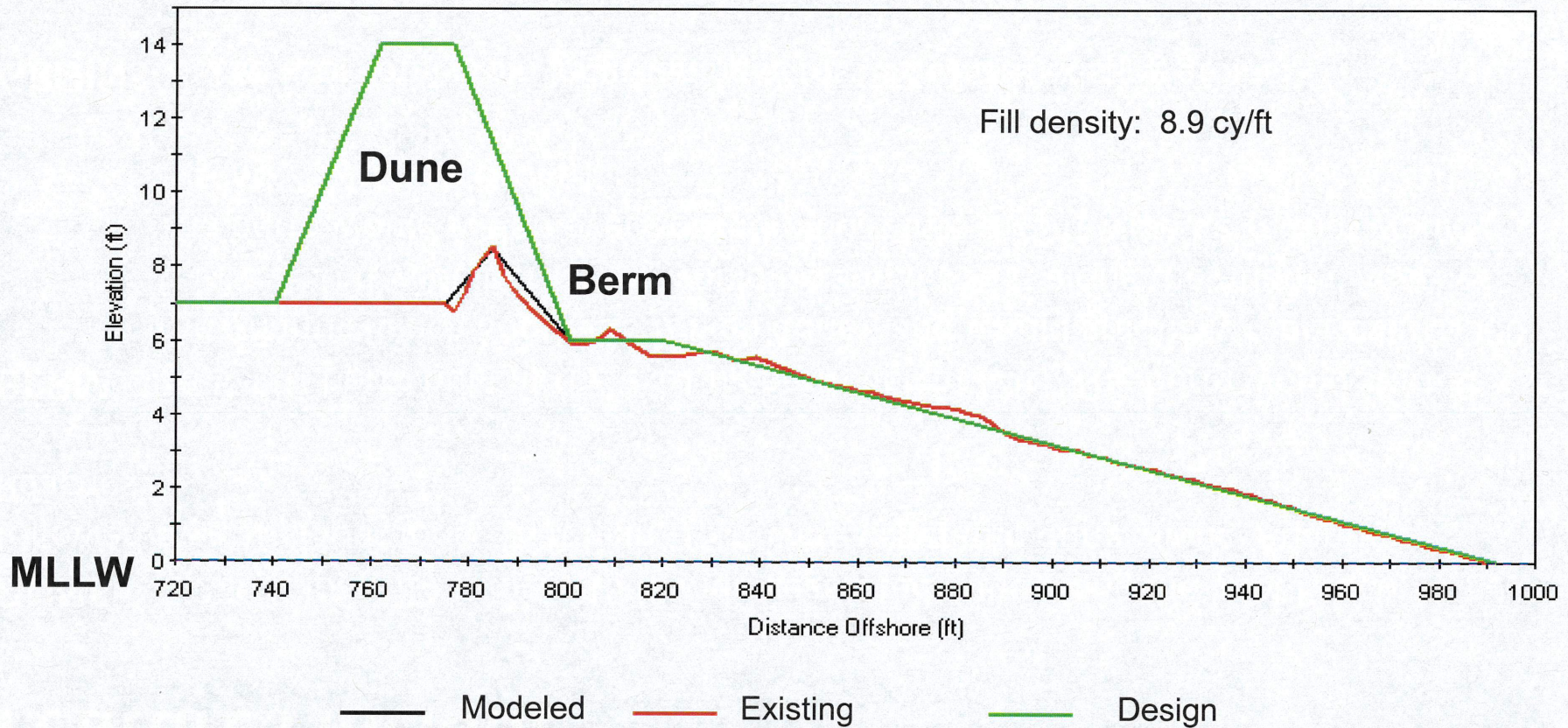
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# Proposed Project – Inlet Reach

Reach I1

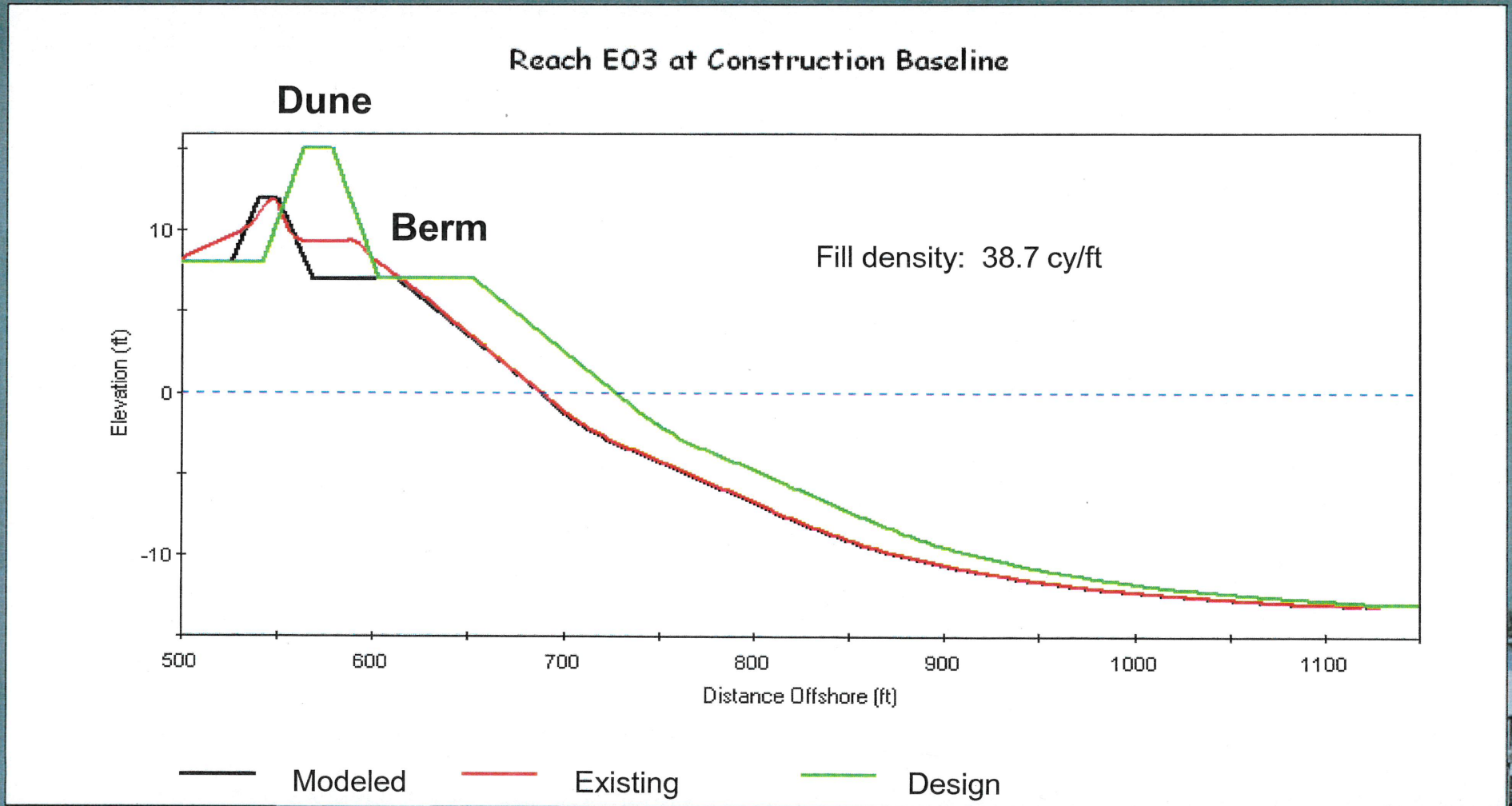


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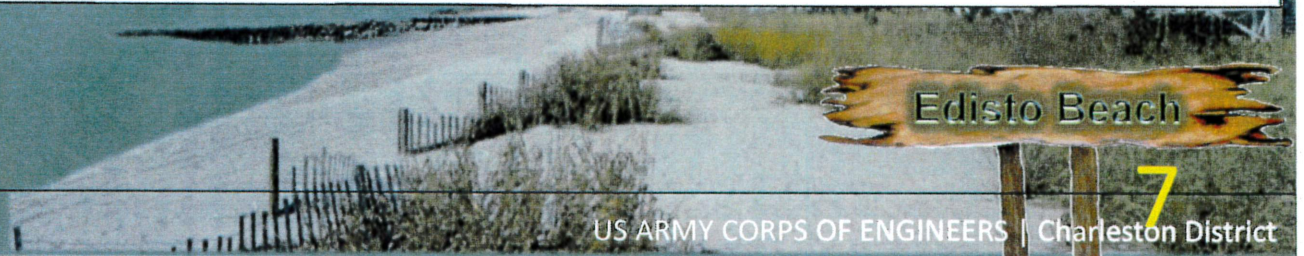


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# Proposed Project – South Atlantic Reach



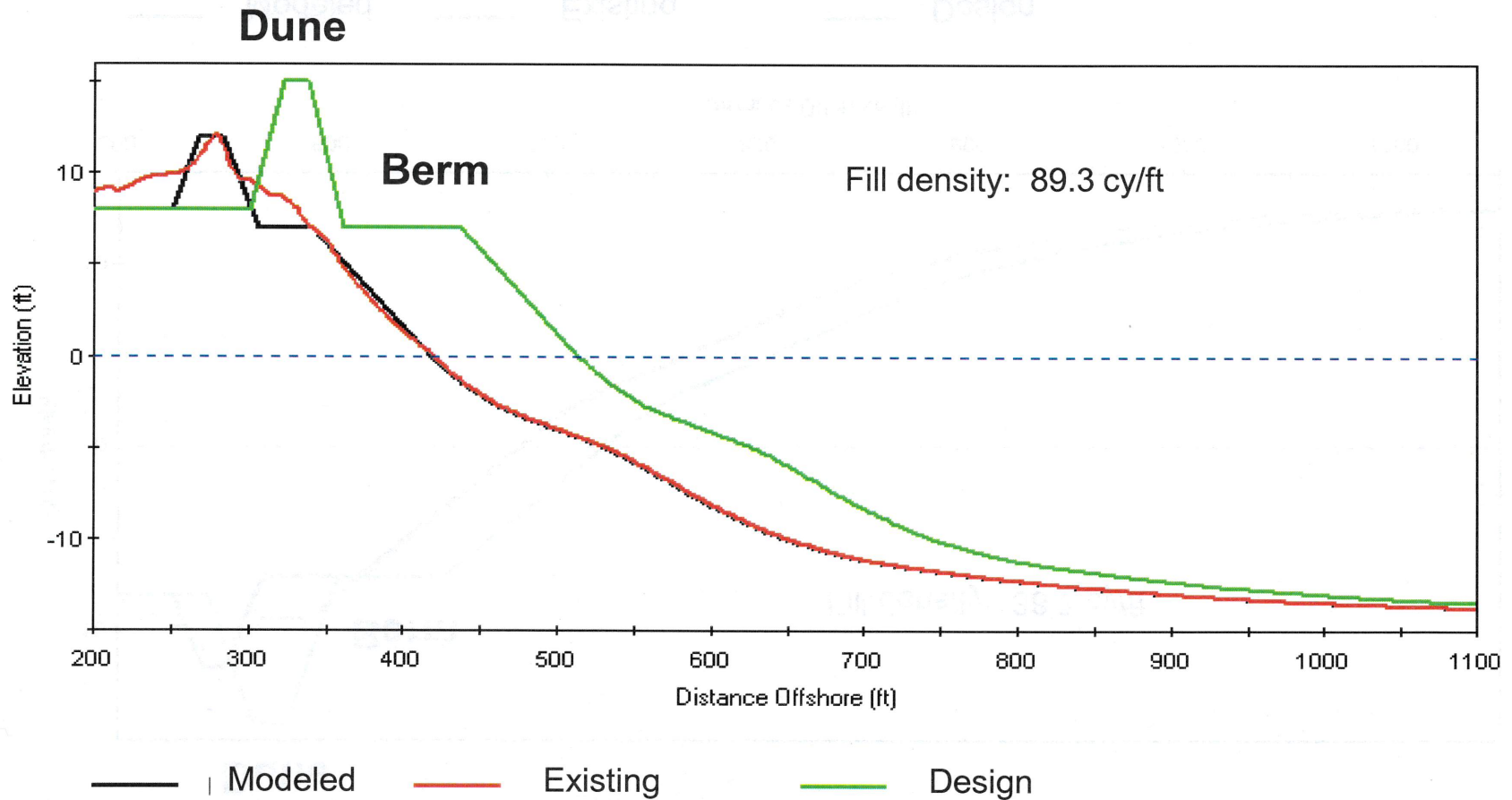
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# Proposed Project – North Atlantic Reach

Reach E14 at Construction Baseline



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# Borrow Site and Native Beach Sands



# Authorized Federal Project

## Costs and Benefits: (2014 price levels)

**Initial Construction first cost:** \$21,129,000

**Federal Share, Initially:** \$21,129,000 (est)

**Federal Share, following repayment:** \$13,733,850

**Non-Federal Share, following repayment :** \$7,395,150

**(Note that the Non-Federal Share includes estimated LERRDS: \$989,000)**

**Three Periodic Renourishments (16 year intervals):** \$32,742,000

(Note that these are planned renourishments , the actual timing of which will be determined by physical characteristics of the beach and the need for periodic nourishment agreed to by sponsor and Corps.)

**Estimated Total Nourishment Cost:** \$53,871,000

**Benefit to Cost Ratio (BCR):** 2.3

Note that these costs were from the authorized study; they will likely be less based on work performed to date.



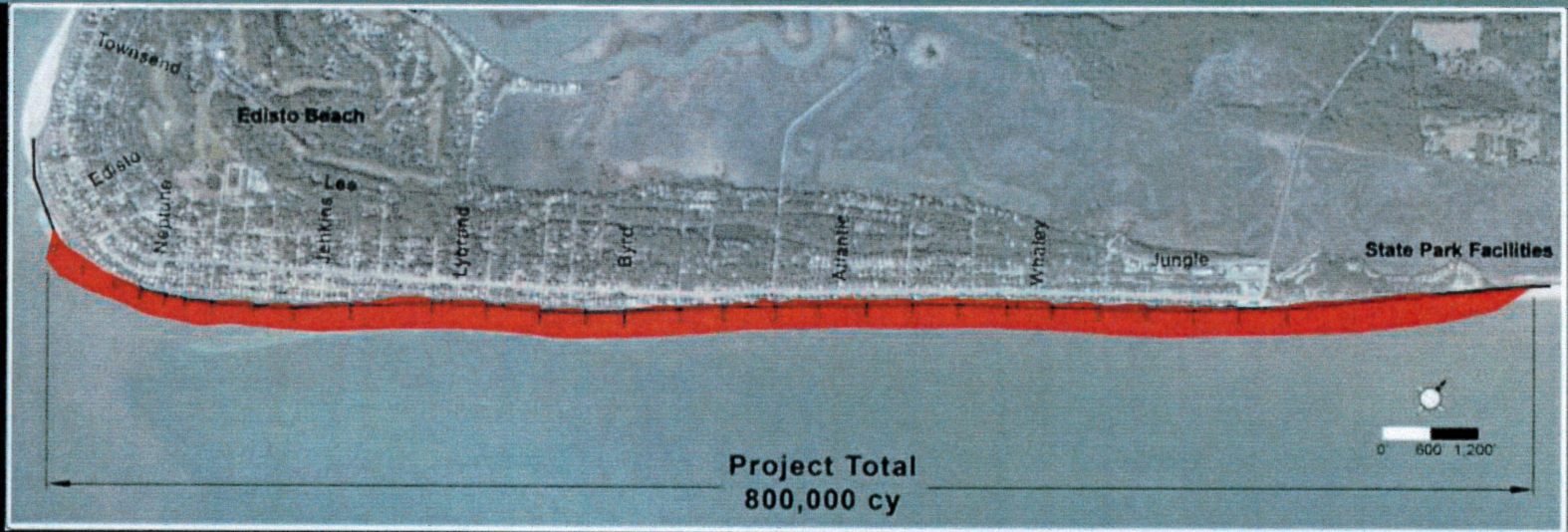
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# 2017 Town of Edisto Beach Work



## Nourishment

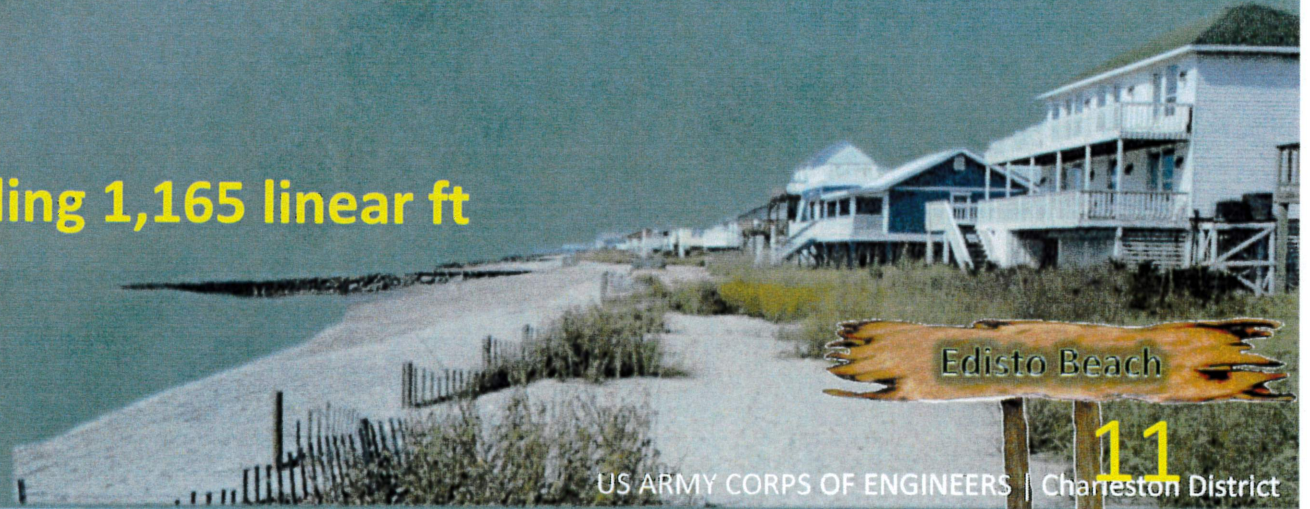
- Design quantity of **1,006,000 cubic yards (cy)** placed over **19,000 linear feet (lf)** of beach.
- **Cost: \$12.2M**

## Groin Construction

- **26 extensions totaling 1,165 linear ft**
- **Cost: \$5.4M**



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# Bipartisan Budget Act of 2018

- Public Law 115-123, the Bipartisan Budget Act of 2018, signed into law February 9, 2018.
- U.S. Army Corps of Engineers Identified Long-Term Disaster Recovery Projects to be Accomplished with 2018 Supplemental Funding; to include Edisto Beach (EB)
- New fast tracked Corps process has not been finalized, but the following is what we think we know:
  - Up to \$22,228,000 federal funds have been authorized to be appropriated for EB
  - Expectation is that construction will be fully federally funded up front; but the current PED agreement and spending of cost share funds will continue through to the end of design (up until RTA).
  - NFS will be given up to 30 years to repay their share of costs, typically 35%



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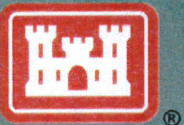
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# Getting to “Ready to Advertise” (RTA)

- ✓ Construction Authority; Authorized by Congress (WRDA 2016, PL 114-322, December 16, 2016, Section 1401 (3) 1. Colleton County.
- ✓ Appropriations (Funding); Authorized to be Appropriated by Public Law 115-123, the Bipartisan Budget Act of 2018, signed into law February 9, 2018.
- Complete Plans & Specifications for Construction
- Real Estate Interests Acquired by NFS and certified by Corps
- Environmental Compliance ; federal “permitting” met by feasibility and integrated NEPA document



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# Next Steps

- **Lock in the perpetual easement line**, which would coincide with the landward limit of where the toe of dune could be constructed; based on beach modeling and avoiding existing structures
- **Develop the revised design and cost estimate** based on the authorized federal project and the work the Town has completed; both groin lengthening and sand placement
- **Execute a Project Partnership Agreement** (a new one is being drafted for this supplemental funding) between the Town of Edisto and the US Army Corps of Engineers
- **Acquire and certify Real Estate easements**
- **Get to “Ready to Advertise” (RTA) for Construction Contract**
- **Advertise and award for construction**



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# Takeaways

- Federal construction authority was provided by WRDA 2016; appropriations are being made available in 2018
- Easements are needed to place sand on the beach on individual homeowner lots; this is a federal project, and the beach that will protect the home is for the recreational use of the public too
- The primary justification is to reduce future storm damages to existing structures; recreation is a secondary important benefit
- Once constructed, and then maintained by the Town of EB, future storm damages may qualify for 100% federal rehabilitation costs under the authority of PL 84-99



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# Questions?



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