

Beneficial Use of Dredged Material Along the Texas Lower Coast

Presented by

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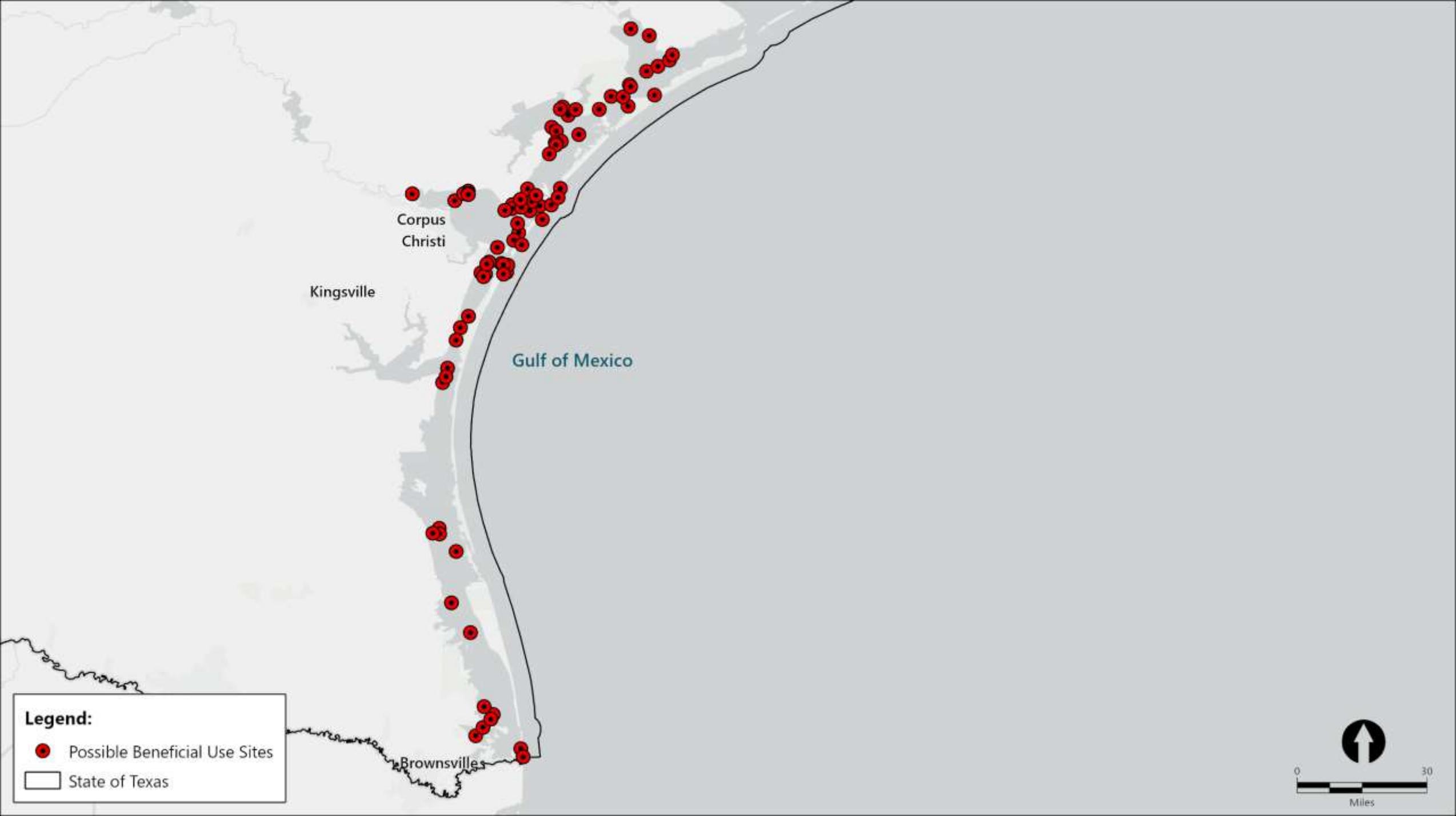
¹Anchor QEA, LLC

²Ducks Unlimited, Inc.

³Port of Corpus Christi Authority

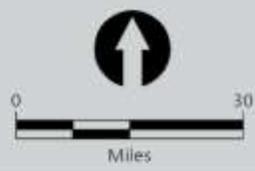
⁴Texas Department of Transportation





Legend:

- Possible Beneficial Use Sites
- State of Texas



Funding

- GLO-CMP Cycle 26 (GOMESA)
 - Gulf of Mexico Energy Security Act
 - Texas General Land Office Coastal Management Program Project of Special Merit Grant to Ducks Unlimited, Inc.
- Port of Corpus Christi Authority



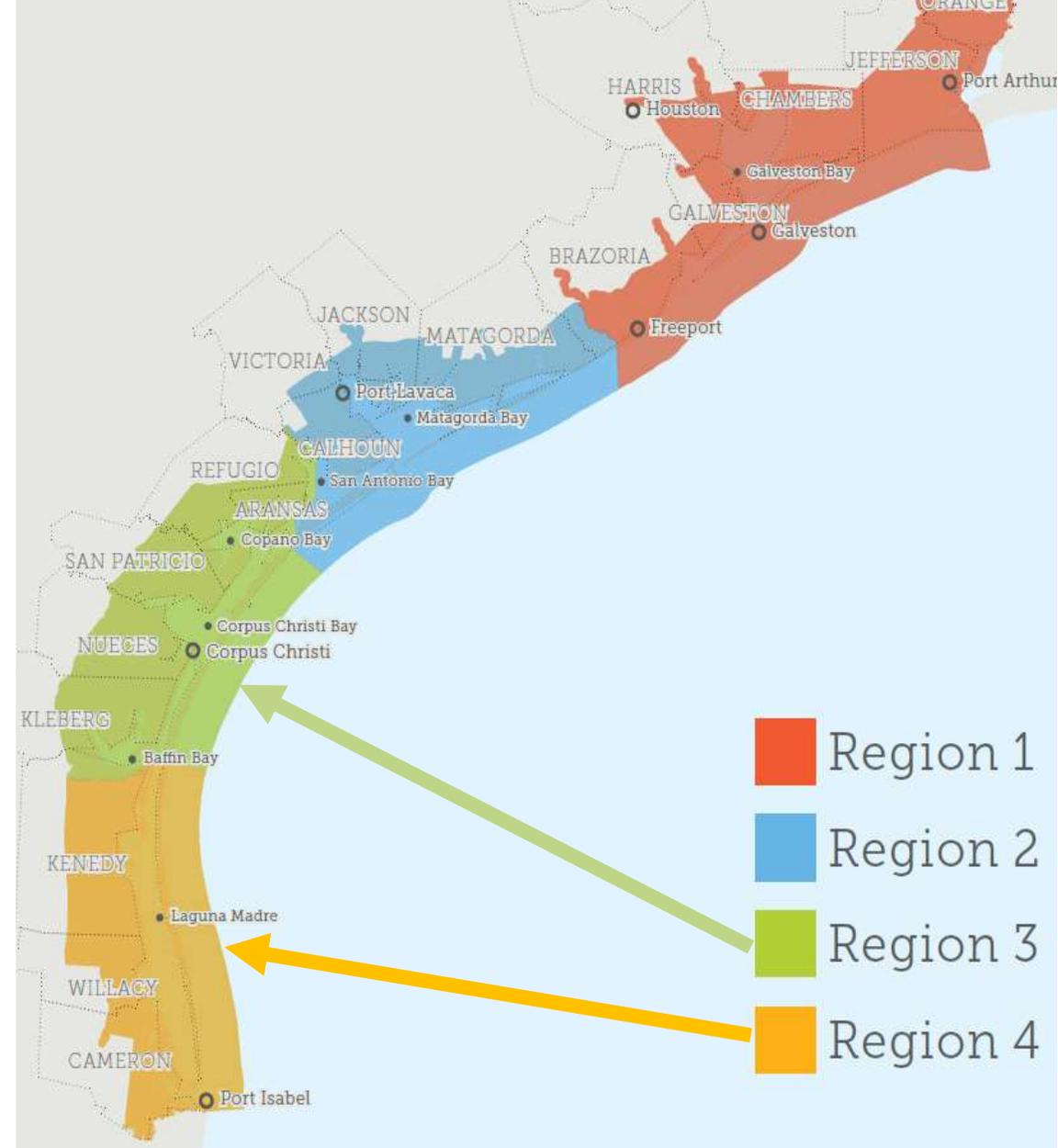
Project Background

- Goal
 - Identify, design, and prepare permit application packages for high priority BU Sites along the Texas lower coast
- Tasks
 - Work with stakeholders to identify high priority sites
 - Evaluate sites based on identified criteria
 - Prepare designs and permit application packages for selected sites



Stakeholder Meetings

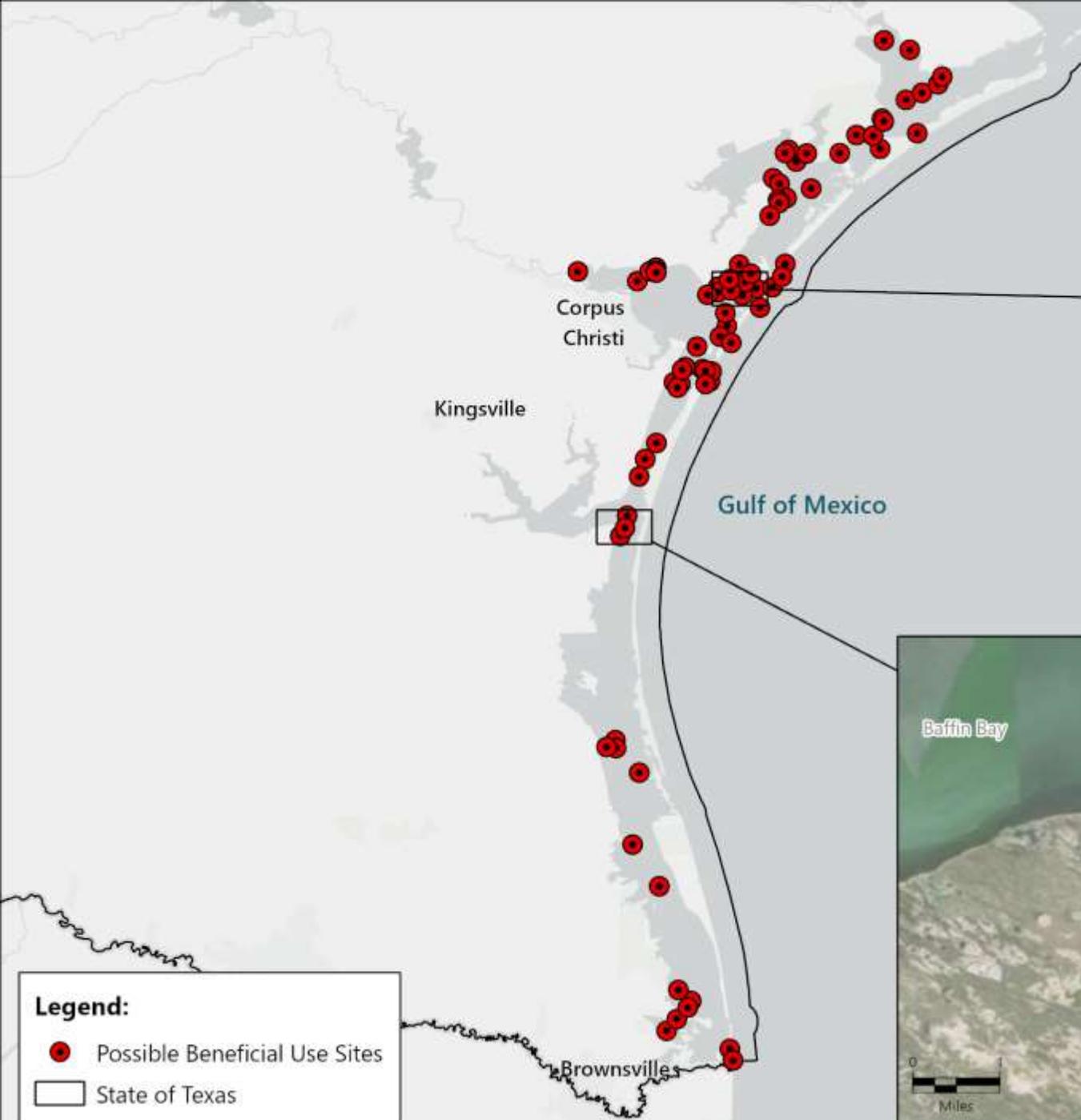
- Purpose
 - Identify high priority areas for BU.
 - Receive feedback on restoration alternatives.
- Participants
 - Federal and state agencies
 - Ports
 - Non-governmental organizations
 - Local officials
 - Academics



Site Selection and Design

- Identified 70 sites
- 16+4 sites → 10% design
- 8+3 sites → 30% design
- Up to 7 sites → 60% design and permit application packages
- Design types evaluated
 - Marsh restorations
 - Rookery island restorations
 - Seagrass restoration
 - Beach Nourishments
 - Tidal Flat restorations





Corpus Christi

Kingsville

Gulf of Mexico

Brownsville

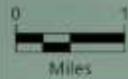
Legend:

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Pelican Island (M3)

Port of Aransas



Baffin Bay

Padre Island

Rabbit Island South



30% Design Examples

Pelican Island (M3)

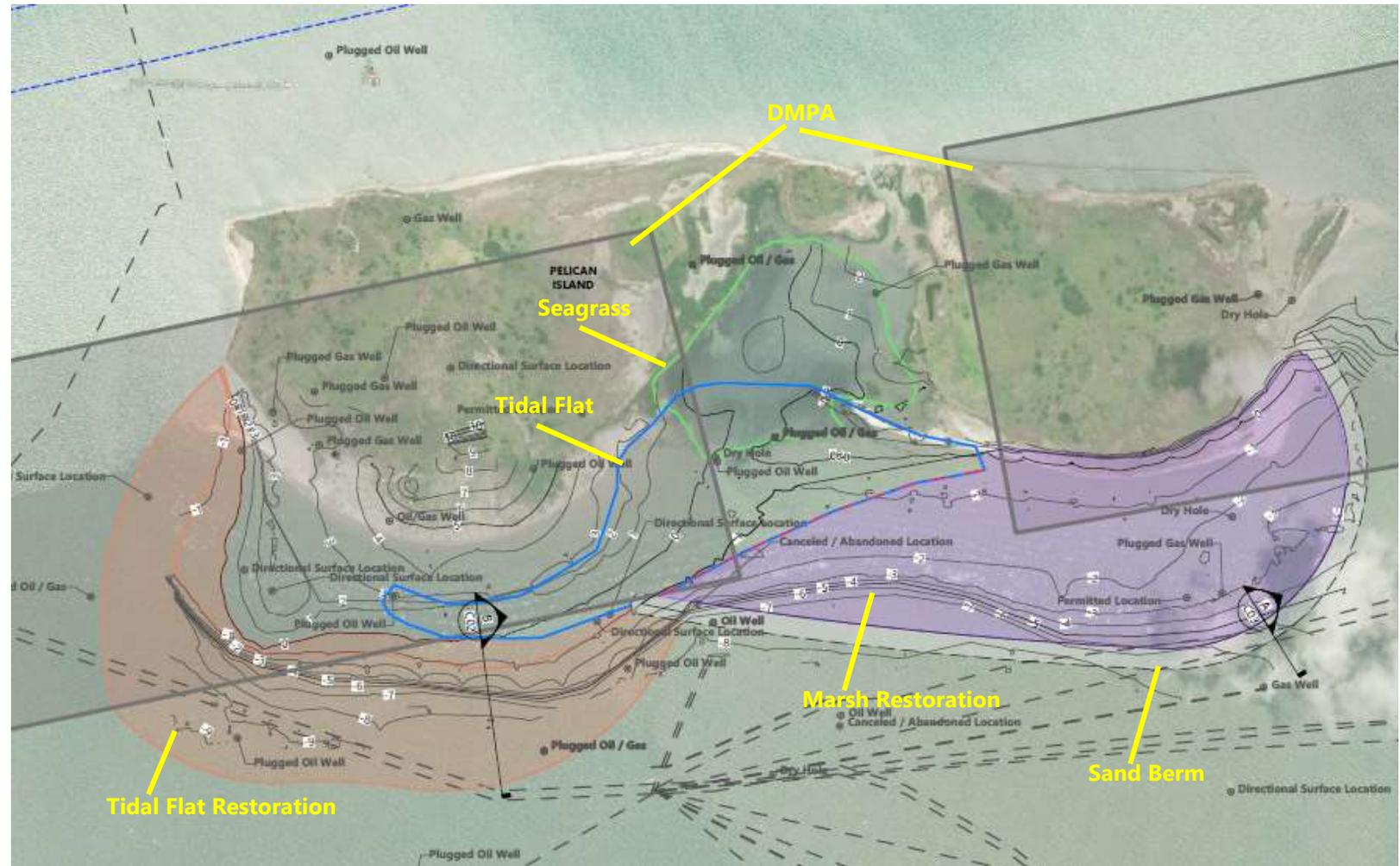


Rabbit Island South



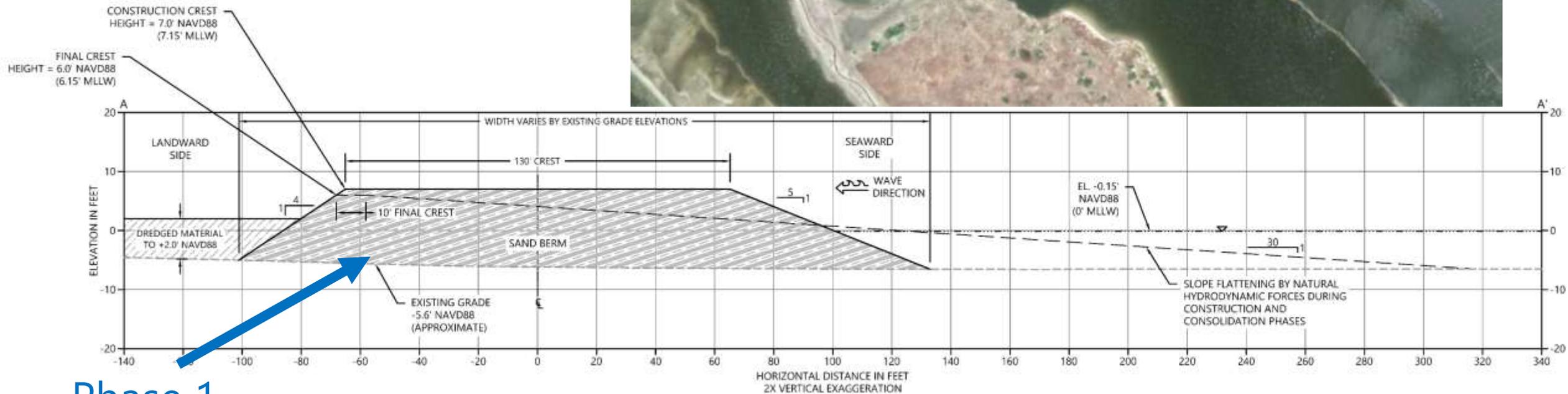
Pelican Island (M3)

- Tidal Flat: 20+ acres
- Marsh: 105 acres
- Sand Berm
 - 6,000 linear feet
- 2 million CY



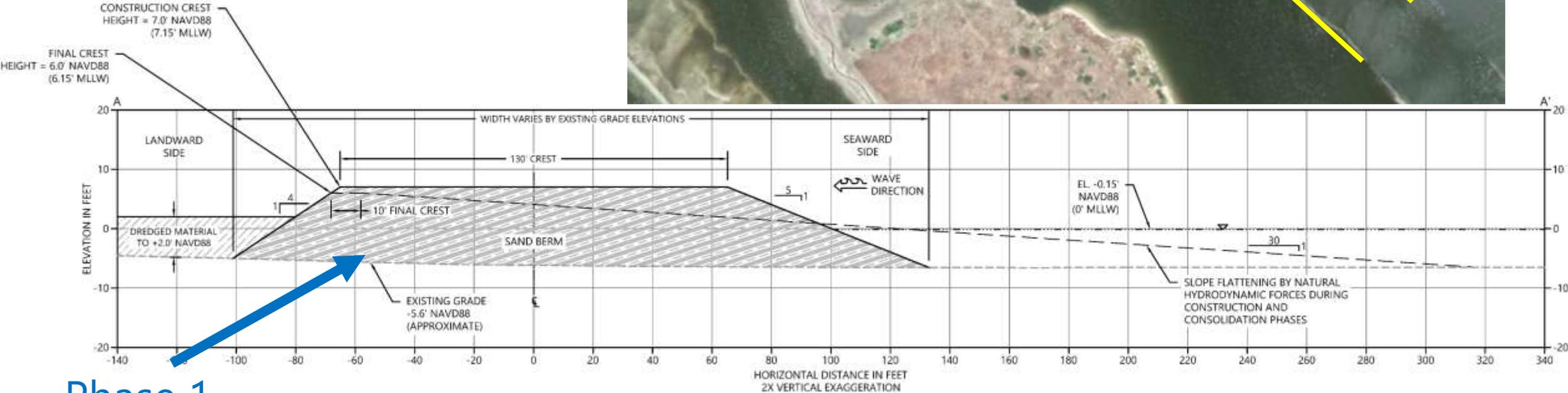
Pelican Island (M3) Sand Berm Construction

Round Island, Mississippi



Phase 1

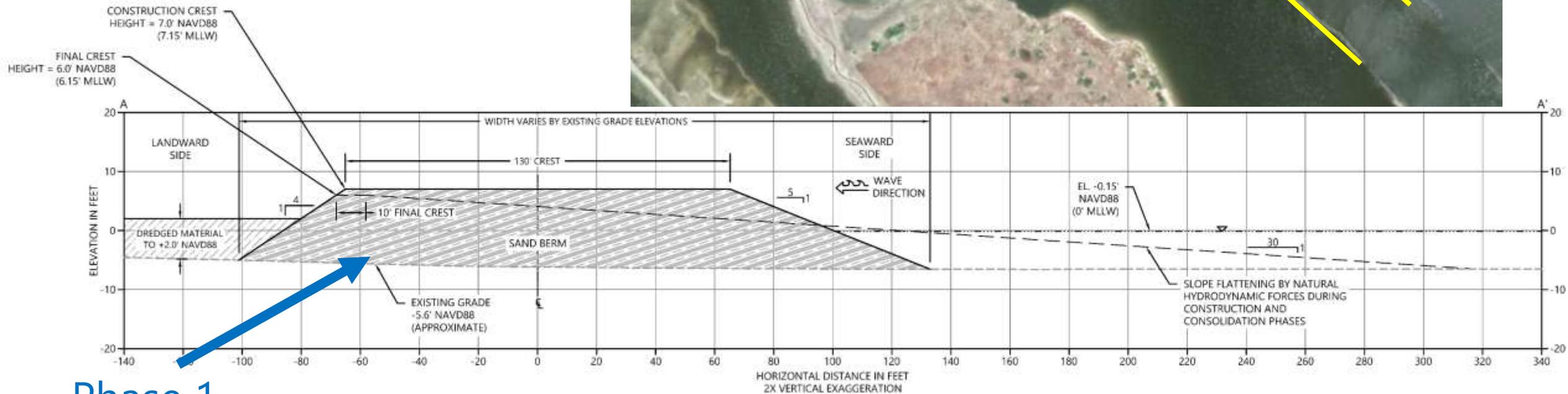
Pelican Island (M3) Sand Berm Construction



Phase 1

Pelican Island (M3) Sand Berm Construction

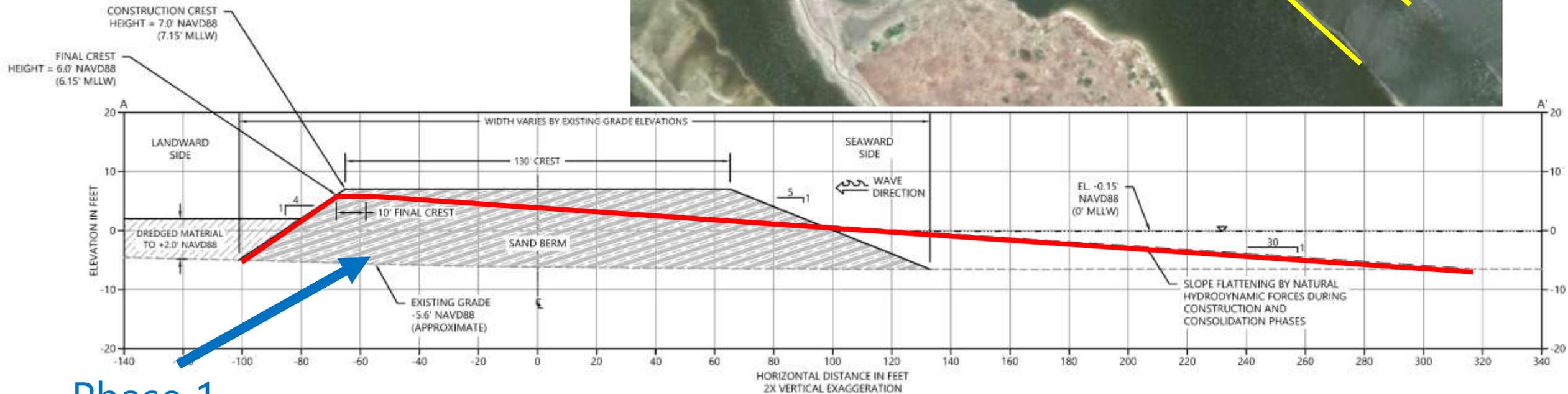
Round Island, Mississippi



Phase 1

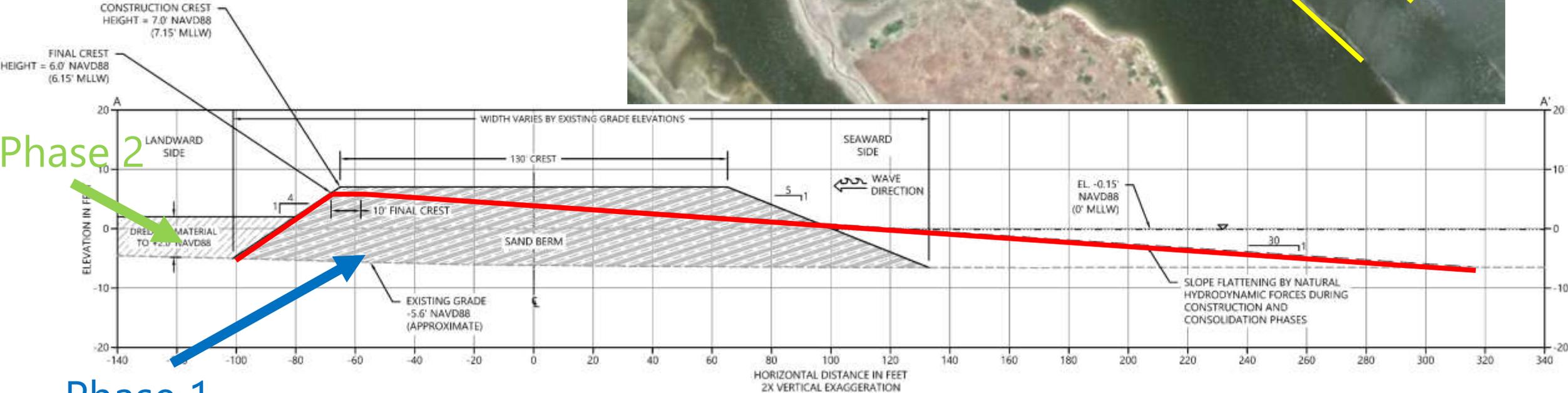
Pelican Island (M3) Sand Berm Construction

Round Island, Mississippi



Phase 1

Pelican Island (M3) Sand Berm Construction



Phase 2

Phase 1

Rabbit Island South

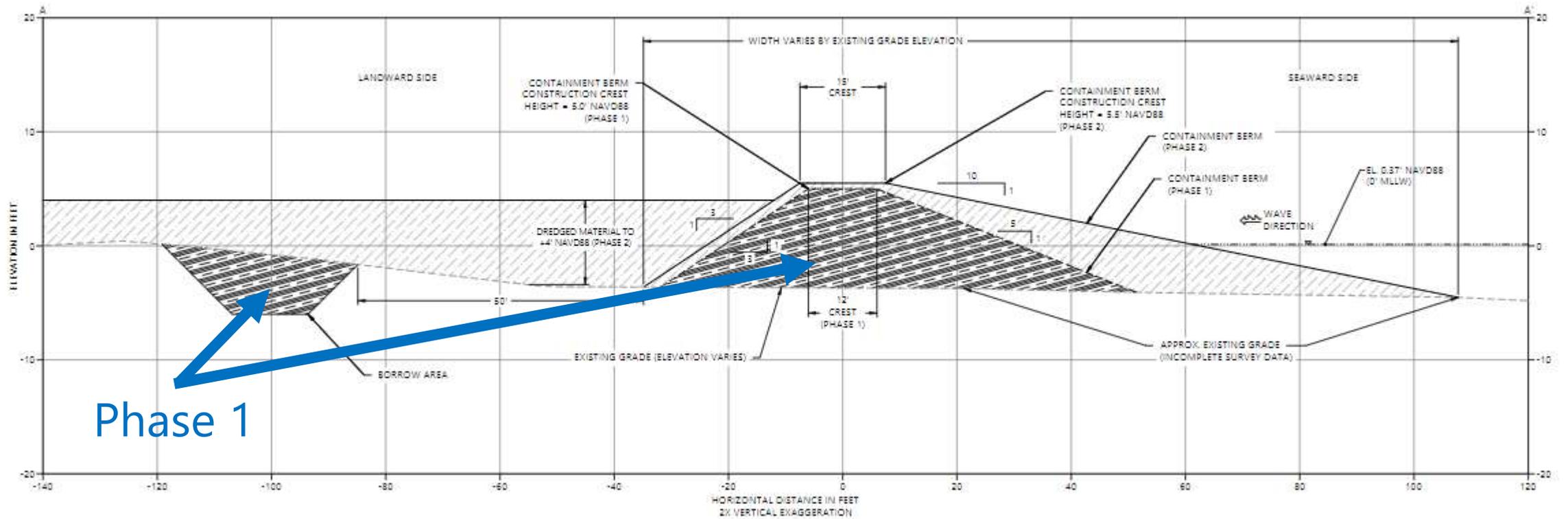
- Features
 - Rookery Island size: 10 acres
 - Use relict new work material from original Gulf Intracoastal Waterway (GIWW) to build unarmored berm
 - Seagrass restoration



Rabbit Island South Source Material



Rabbit Island South Construction



Project Timeline

Stakeholder Meetings



20 to 10% designs



11 to 30% designs



Up to 7 to 60% design
and permit packages





Questions?

Please reach out with any questions or feedback

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