Location

Gulf of Mexico

LONGBOAT KEY

Sarasota Bay

Longboat Pass

ANNA MARIA IS.
Federal disposal ends 1997
Project Objectives

1. Protect road
2. Storm protection for condo
3. Recreational amenity
4. Preserve natural resources
Options

• Beach nourishment (sand fill)
  – High erosion rates
  – Sand availability and cost

• Structures (breakwaters & groins)
Proposed Stabilization 2012

Terminal Groin

Permeable Adjustable Groins (PAGs)
2015 Stabilization

SEP 2015
North End Conditions

SEP 2018
North End Conditions

SEP 2018

MAY 2017
Clearly, additional stabilization is needed.
Modeling Takeaways

1. No significant sand supply for the area of concern

2. **Zone** of transport reversal
   - Farther north than shown in prior studies
   - Consistent with field observations

3. Existing groins do not span the erosional zone
Project Design

LONGBOAT PASS

GREER ISLAND

Permeable Rock Groin

Existing PAGs

JULY 2017
1. Additional structural stabilization is required
   – Expansion of groin field

2. Multiple project objectives

3. No natural sand supply
   – Reversal zone in middle of project shoreline
Longboat Key, FL
(Additional) North End Stabilization

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Photos from the Air