

Honeymoon Island Beach Restoration Project

Phase II Construction Update



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Humiston & Moore Engineers

Date of Aerial: Feb 3, 2015

Presentation Outline

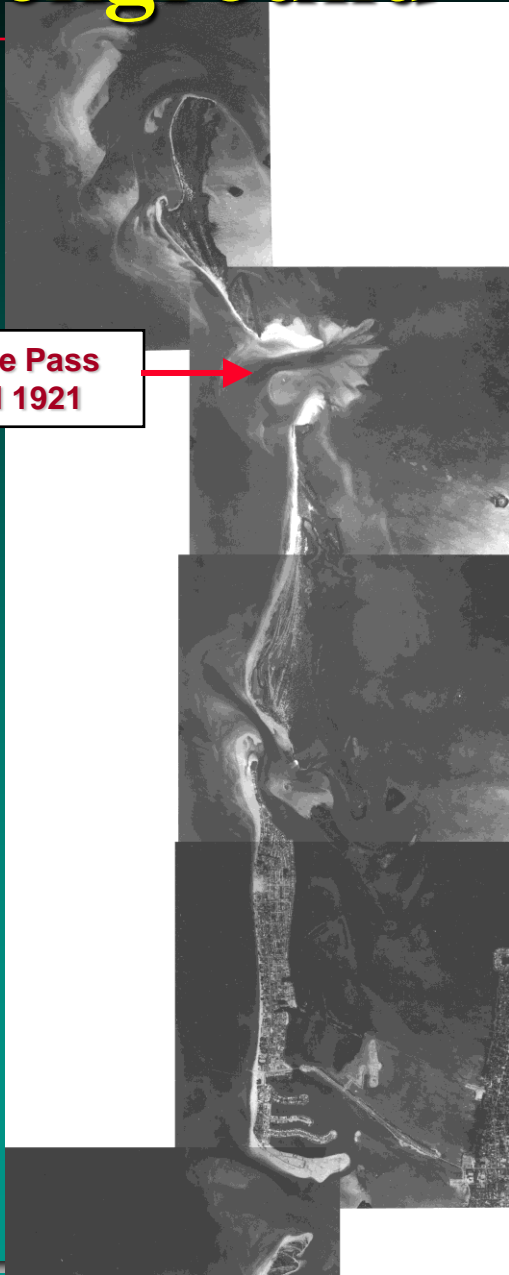
- *Brief Historical Overview*
- *Problem*
- *1989 Beach Fill Project*
- *2004 DEP Design Goal*
- *2007 – Phase I*
- *2014 – Phase II*



Location Map

Background

Hurricane Pass
Opened 1921



1957 Conditions

Hurricane Pass

Dunedin Pass
Closed 1988



Causeway
Built 1962

Present Conditions

Honeymoon Island 1940's



Honeymoon Island Suites 1940's



Honeymoon Island 1971



Honeymoon Island 1987



Honeymoon Island 11-1988



Honeymoon Island 11-1988



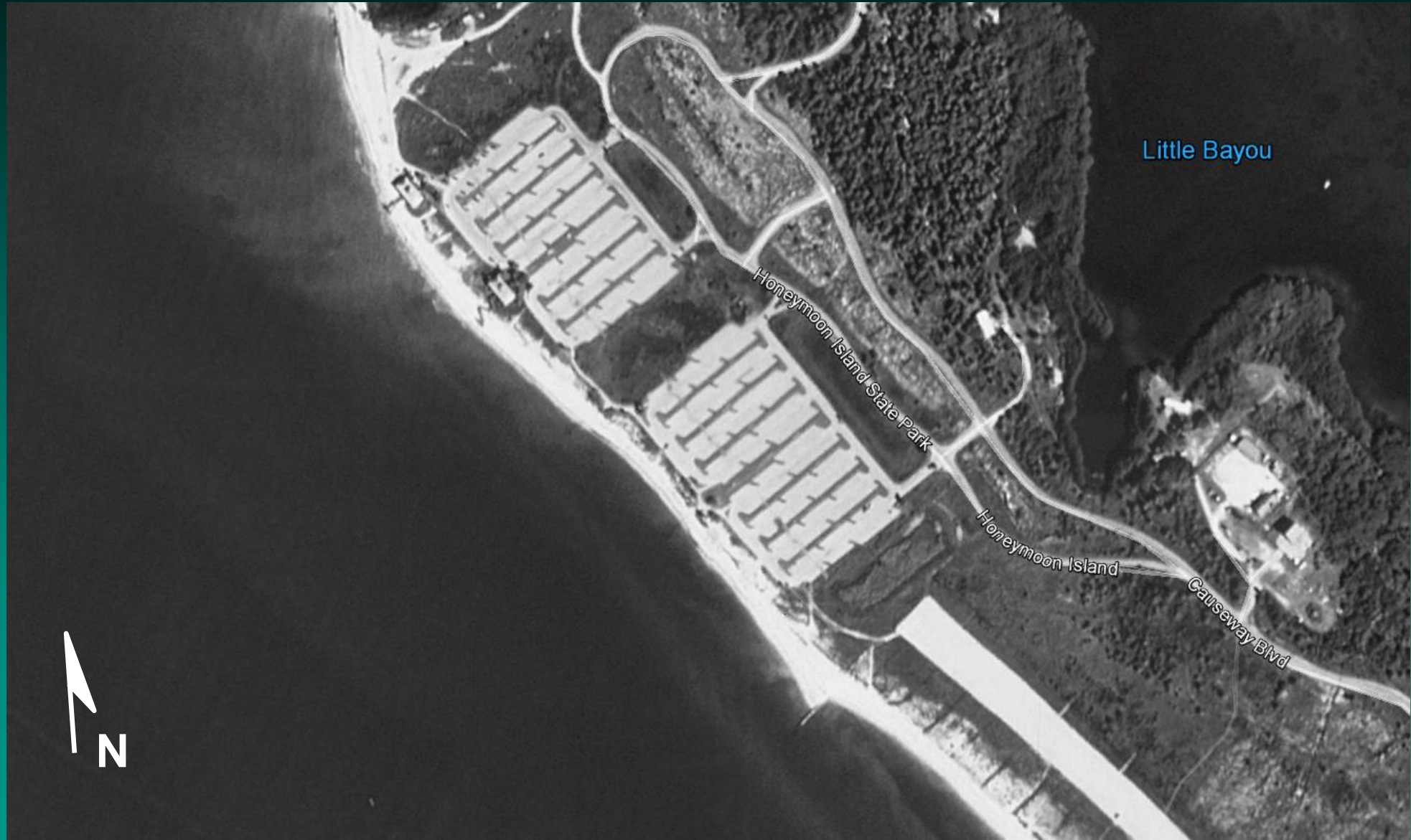
Honeymoon Island 3-1989



Honeymoon Island 3-1989



Honeymoon Island 1995



Honeymoon Island 2004



Statement of Project Goals

DEP Parks Service 2004

- #1 *Restoration of the State Park Beach to meet **recreational needs and protection of State Park facilities** and infrastructure. Areas of primary consideration for beach fill include the section of shoreline along the area which includes parking and park facilities.*

Statement of Project Goals

- #2 *Protection of natural resources, including north and south **shorebird nesting areas, sea turtle habitat, and submerged aquatic vegetation.***
- #3 ***Minimization of the amount of sediment entering Hurricane Pass.***

Existing Beach Conditions 3-2005



Honeymoon Island Park Facilities

April 19, 2005

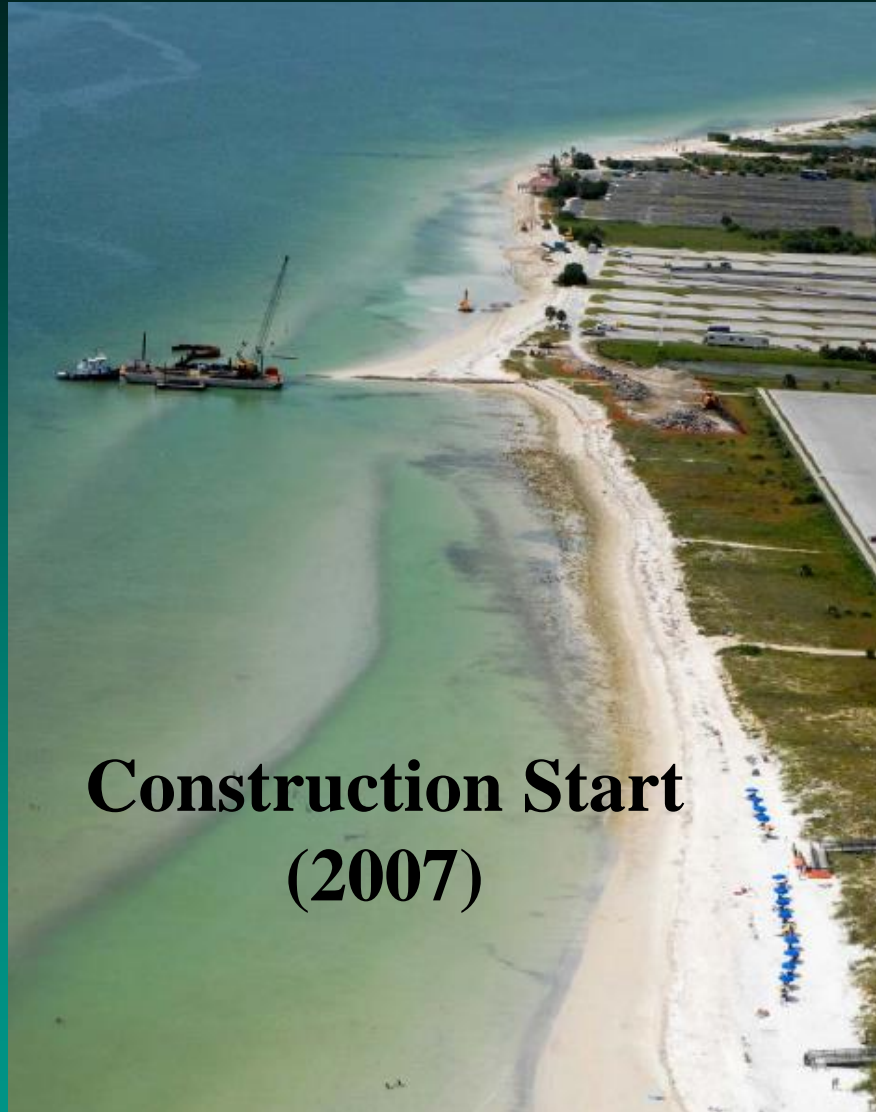


Honeymoon Island Phase I Project

- *150,000 CY placed between R-8 to R-10.5*
- *T-groin Constructed*
- *Construction from Aug. 2007 to Jan 2008*



Phase I: 3 years Post Construction



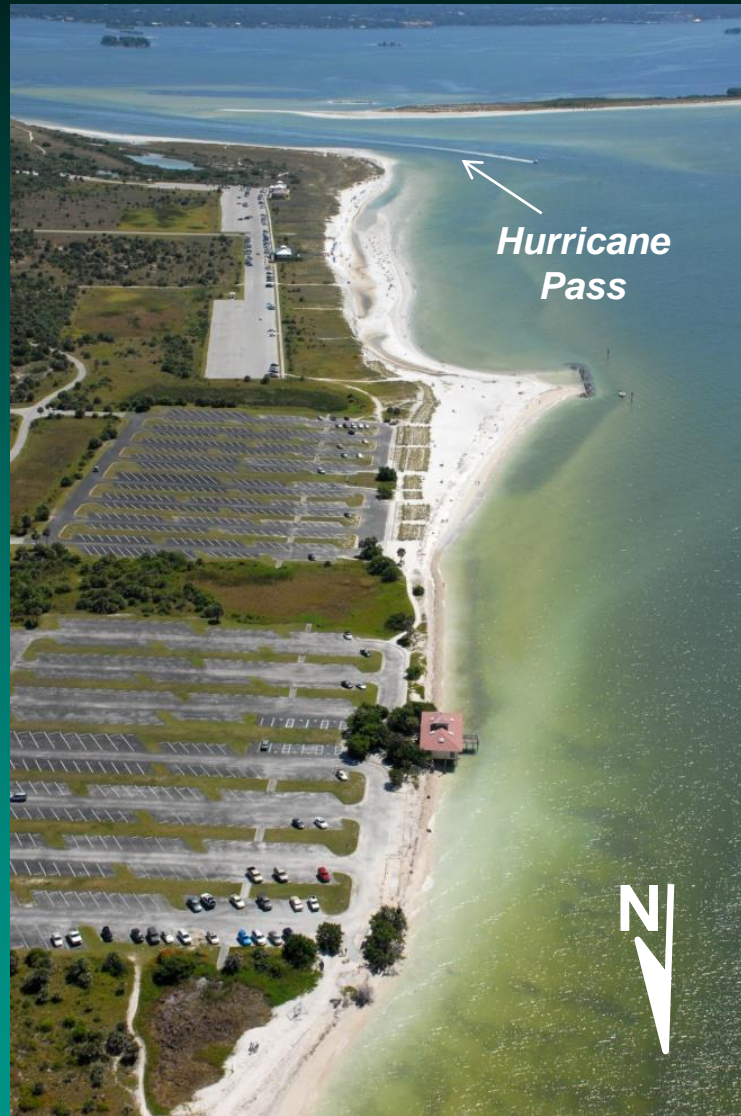
Phase I: 6 years Post Construction



Shoreline Change (2001 to 2010)



Honeymoon Island 10-01-2009



Honeymoon Island 10-01-2010



Honeymoon Island 2009 & 2010



11-03-2009



10-06-2010

Honeymoon Island 2011 & 2012



7-31-2011



7-19-2012

Honeymoon Island Phase II Goals

- *Maintain same goals as Phase I extending the erosion control project north to establish a beach along the park shoreline from DEP Monuments R-9 to R-8 that may be sustainable and managed with future sand placement from maintenance the of the navigation channel at Hurricane Pass or other suitable sources.*

Honeymoon Island Phase II Project

- *160,000 cy of sand between R-7 to R-10*
- *3 T-groins*
- *Protect facilities - retreat*
- *Transition N & S*
- *Inlet sand budget*
- *Sustainability*
- *Reasonable fill cycle*



Honeymoon Island 8-7-2014



Honeymoon Island 9-2-2014



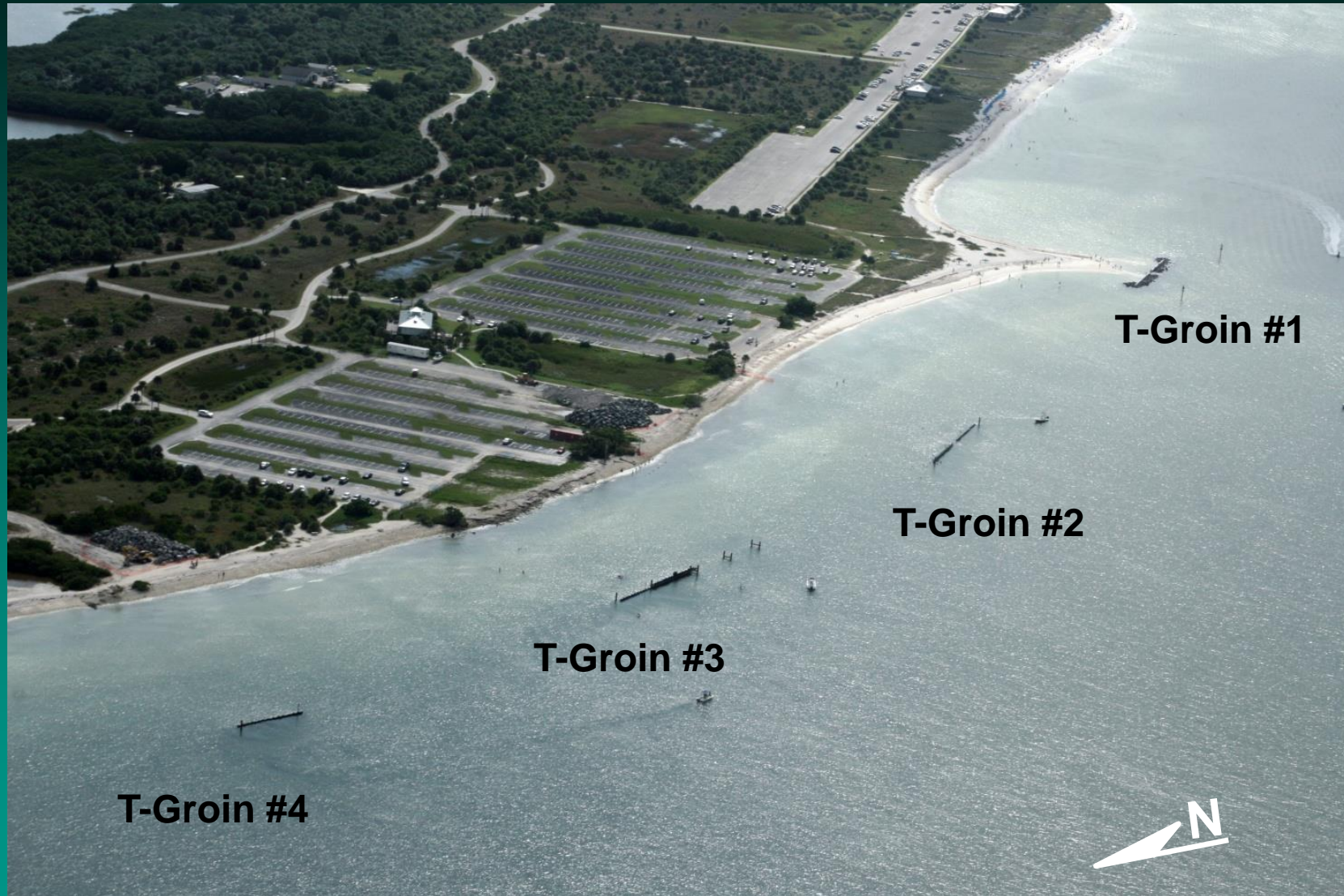
Honeymoon Island 9-11-2014



Honeymoon Island 9-16-2014



Honeymoon Island 9-28-2014



Honeymoon Island 10-15-2014



Honeymoon Island 10-27-2014



**The “Spider”
Designed by
Florida Dredge
& Dock**

Honeymoon Island 12-04-2014



Cap Construction

Honeymoon Island 12-16-2014



Honeymoon Island 1-21-2015



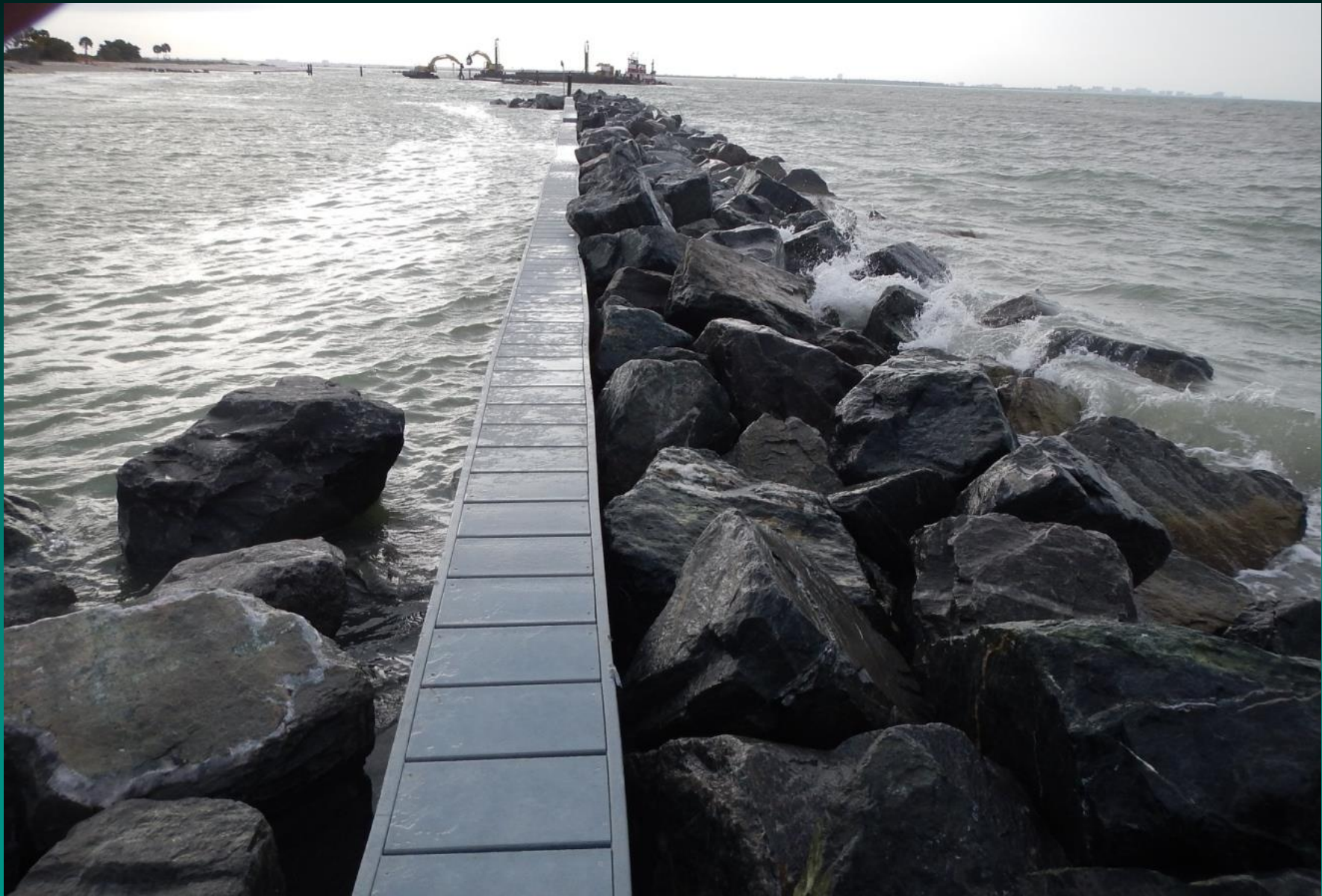
T-Groin #2

Honeymoon Island 1-21-2015



T-Groin #3

Honeymoon Island 1-23-2015



Honeymoon Island 1-25-2015



Honeymoon Island 2-03-2015



Honeymoon Island Schedule

- *2/2015 Complete T-groin #2 and #3*
- *3-4/2015 Complete T-groin #4*
- *4-5/2015 Commence Dredging*
- *7/2015 Project Completion*

Acknowledgements

- Pinellas County
 - *Andy Squires, John Bishop*
- DEP Parks Service
 - *Pete Krulder, Michael Lang, Dan Larremore, Marshall Flake*
- DEP Beaches
 - *Catherine Florko, JCP staff*
- USACE
 - *Tracy Hurst*
- Contractor
 - *Florida Dredge & Dock*

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