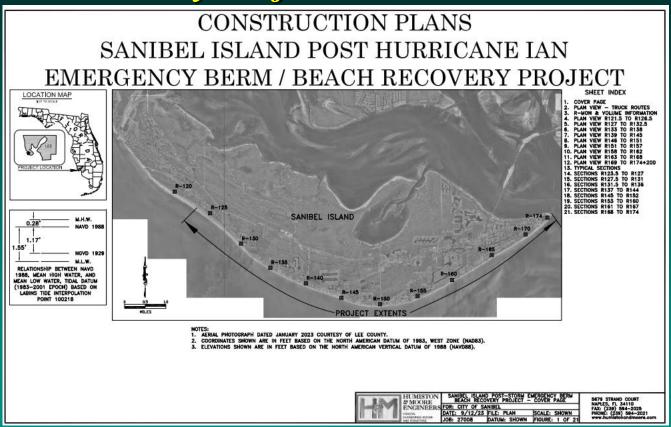
Update on the City of Sanibel Island Post Hurricane Ian Emergency Berm / Beach Recovery Project





Presented by: Brett D. Moore, P.E., BC.CE. President



Humiston & Moore Engineers

Update to the City of Sanibel Island Post Hurricane Ian Emergency Berm / Beach Recovery Project







Presentation Outline

- ✓ Intent of Project
- ✓ Pre and Post Storm Surveys
- ✓ Measured Beach Erosion
- ✓ Approved Funding FEMA & State
- ✓ Design Beach Fill
- ✓ Project Design & Construction Access
- ✓ Schedule
- ✓ Sanibel Lighthouse



Intent of Project

- ✓ Add beach compatible sand to upland beach
- ✓ Encourage dune recovery
- √ Address gullies

Tarpon Bay Road





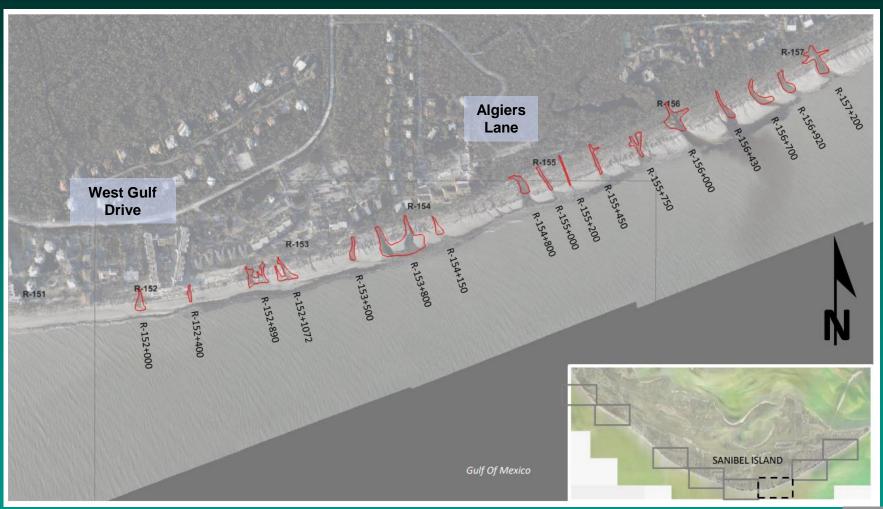
Pre and Post Storm Surveys

- September 15-26, 2022: Pre-Storm:
- September 28, 2022: Hurricane lan:
- December 2022: Post Storm
- July 2023: Design



Pre and Post Storm Surveys

December 2022 & July 2023 Surveys of Washout Gullies





Measured Beach Erosion - Hurricane Ian

Measured losses from lan (Dune to Wading Depth)

- North Sanibel R-110 to R-122:
 131,600 cy (197,400 tons)
- Sanibel R-123 to R-173.5282,700 cy (424,000 tons)



Approved Funding Participation – FEMA & State

<u>FEMA</u>: 99,171 cy (148,756 tons) Est. Cost \$10,222,954 (Fed 75%, State 25%)

State DEP: (100% State Share)
(Hurricanes Ian and Nicole Recovery Plan)

- North Sanibel R-110 to R-122)
 \$1,542,514.23 (48.5% of 6 cy/ft, or 9 tons/ft)
- Sanibel R-123 to R-174 \$11,541,210.91 (48.5% of 6 cy/ft, or 9 tons/ft)*

*Additional funds available from State



Approved Private Funding Participation – State

DEP Hurricane Restoration Grant Program:

Rule: 62ER23-3, Florida Administrative Code

Statute: Section 10, Chapter 2022-272, Laws of Florida

State Funding Participation up to 50% for:

Debris Removal from Beach and Dune

Compatible Beach Fill Placement Area

Eligibility Requirements:

Property Impacted by Hurricane Ian

Single-family (homestead), Residential Condo, Cooperative

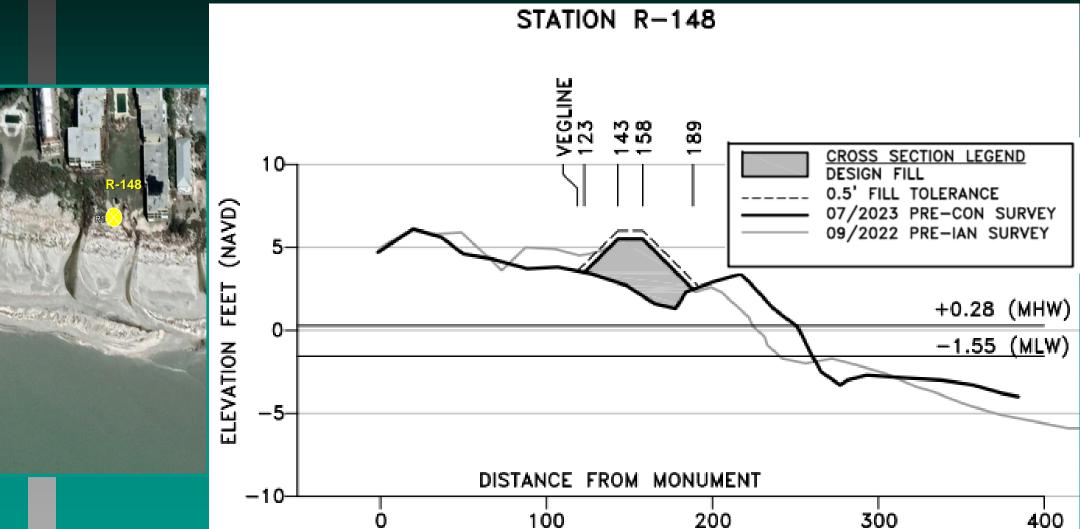
Maximum reimbursement: \$300,000

State Funds: \$50,000,000+

To be Extended to July 1, 2024



Design: Restore Fill at R-148

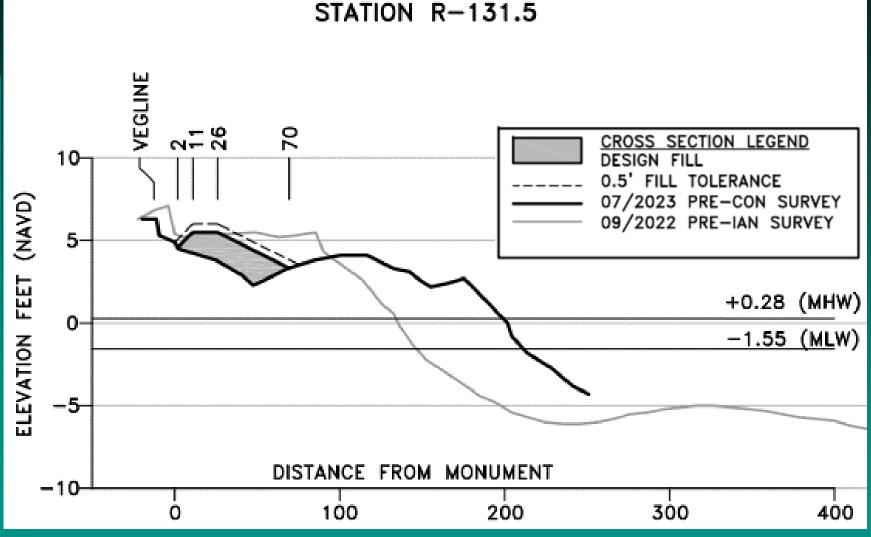




Design: Restore Dune & Gullies at R-131



Washout Gullies





Project Design & Construction Access





Project Schedule

Oct 5, 2023
Pre-Bid

Oct 20, 2023 Bid Opening

Nov 7, 2023 Award Contract

Construction

Nov 15, 2023 to Feb 14, 2024





Sand Source, Quantity & Quality

Sand: Inland Sand Mine(s) - Contractor Select

Sand Spec: Specific and within State Standards for Beach

Quality

City Purchase: Option to purchase sand directly from mine(s)

Total Quantity: Est 410,100 tons



Sanibel Lighthouse

