



# Cape Coral Bridge Replacement & Sanibel Causeway Repairs

Board of Lee County Commissioners February 6, 2023 - Workshop











#### PROJECT LIMITS & OVERVIEW



#### **Begin Project**

• Intersection of Del Prado Blvd. and Cape Coral Pkwy.



#### **End Project**

 Intersection of College Pkwy. and McGregor Blvd.



#### **Project Length**

• Approx. 2.3 miles



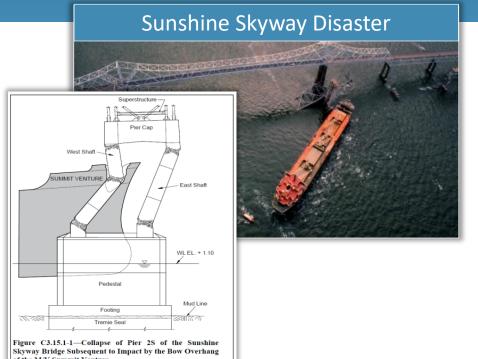
Caloosahatchee River is part of the Intracoastal Waterway System





#### TIMELINE TO VESSEL COLLISION DESIGN

1963 1980 1988 1989 1991 Westbound Sunshine FHWA Funds **Eastbound AASHTO** adopts **Bridge Built** Skyway Bridge **Bridge Built** Guide Spec. for Research for Collapse **Vessel Collision Vessel Collision** Study







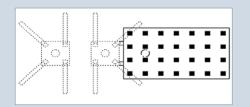


#### VESSEL COLLISION ANALYSIS

#### **Alternative 1**

#### **Eastbound Bridge**

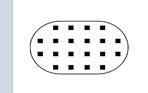
Widen with Vessel Collision



Footing Plan View

#### **Westbound Bridge**

Replace Bridge



Footing Plan View

#### **Service Summary**

35 Years

75 Years

Total Cost: \$198.2M







#### **VESSEL COLLISION ANALYSIS**

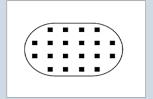
#### **Alternative 2**

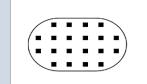
**Eastbound Bridge** 

**Westbound Bridge** 

Replace Bridge

Replace Bridge





Footing Plan View

Footing Plan View

#### **Service Life Summary**

75 Years

75 Years

Total Cost: \$218.6M







#### COST ESTIMATE & SERVICE LIFE SUMMARY

Ітем		ALTERNATIVE 1	ALTERNATIVE 2
EB Bridge Cost / Service Life		\$55.3M / 35 Yrs.	\$79.1M / <mark>75 Yrs.</mark>
WB Bridge Cost / Service Life		\$74.7M / 75 Yrs.	\$79.1M / 75 Yrs.
Walls and Causeway Armory		\$8.4M	\$8.4M
Demolition/Temporary Work		\$2.6M	\$2.6M
Roadway Cost Estimate		\$34.0M	\$24.0M
Tolling Cost Estimate		\$2.0M	\$2.0M
	Subtotal	\$177.0M	\$195.2M
Design/CEI		\$21.2M	\$23.4M
Total Preliminary Project Cost Estimate		\$198.2M	\$218.6M





#### Which Alternative do you wish to pursue?

#### **Alternative 1**

Widen Eastbound, Replace Westbound Eastbound Bridge Life – 35 Years Westbound Bridge Life – 75 Years

Total Cost: \$198.2M

Replace Eastbound & Westbound bridges Increases useful life of both bridges to 75 years

**Alternative 2** 

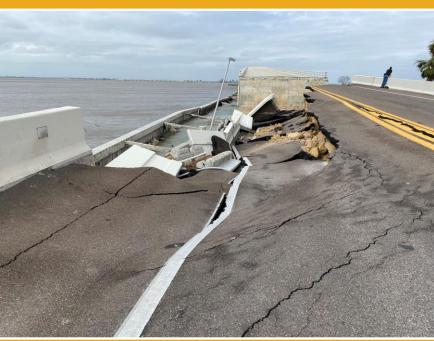
Additional cost: \$20.4M for Total \$218.6







# SANIBEL CAUSEWAY REPAIRS



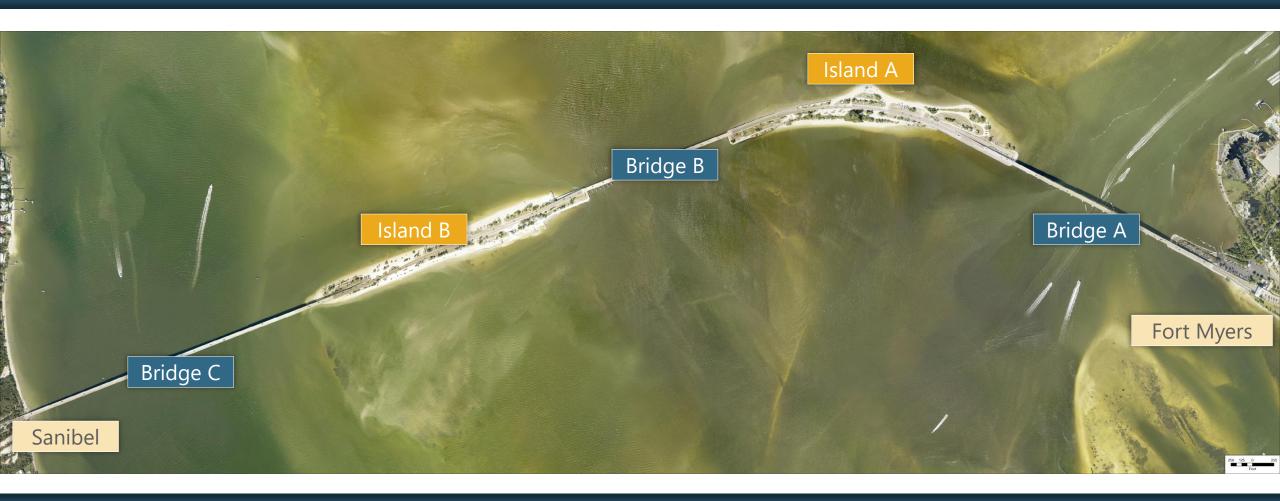




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### Hurricane Ian Impacts – Before

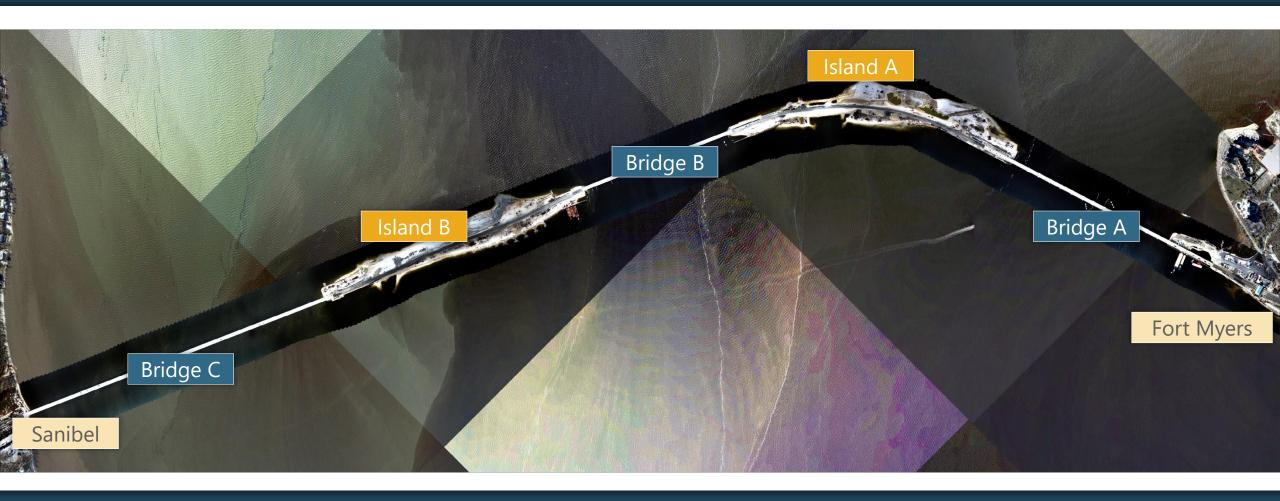


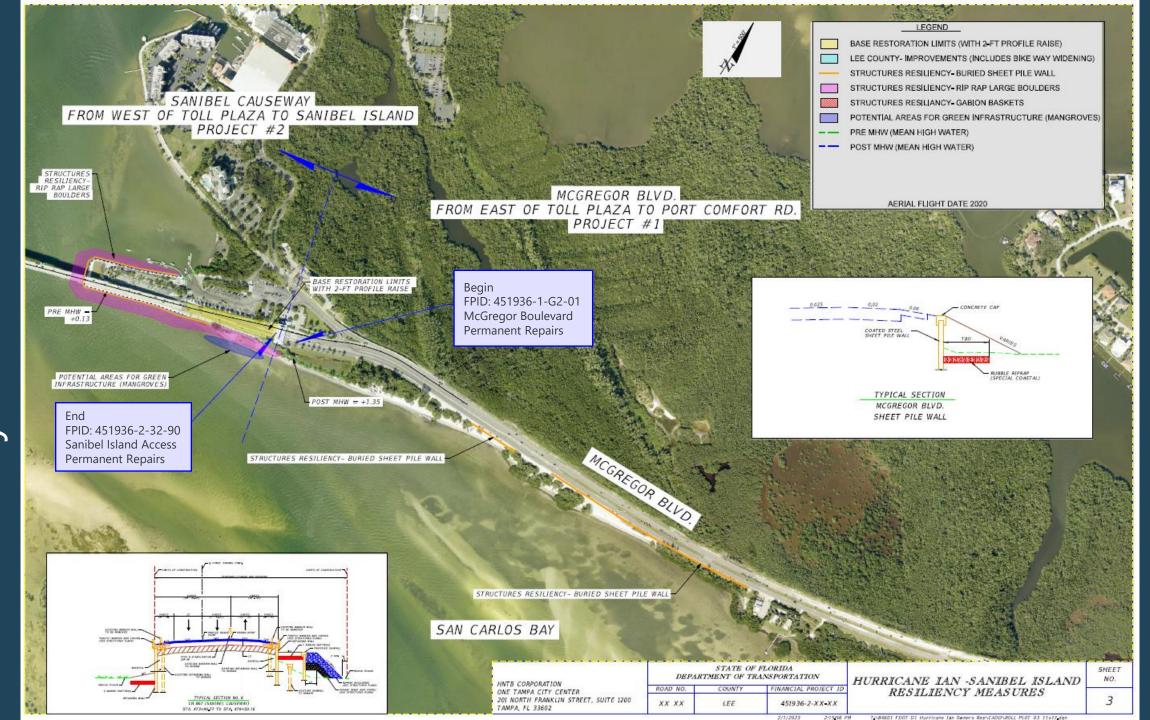
## Hurricane Ian Impacts – After

(10/2/2022)

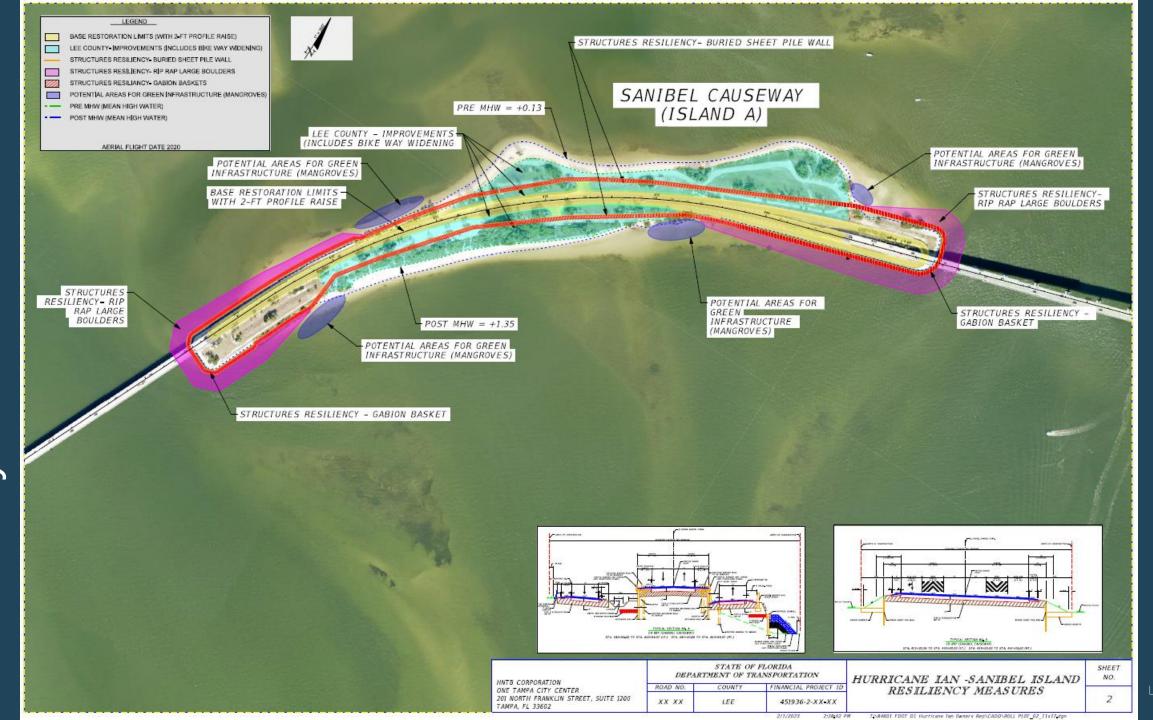


# Hurricane Ian Impacts – After Temp Roadway













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### FDOT Resiliency Components







