ST. JOHNS COUNTY, FL

Shore Protection Project (St. Augustine Beach)

Presentation for: St. Augustine Beach Commission

Jason Harrah, Senior Project Manager (in) **U.S. Army Corps of Engineers Jacksonville District**

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PROJECT HISTORY

Initial Construction of the Project Completed

Second Periodic Renourishment Completed 4th Periodic Renourishment and

Emergency Renourishment Scheduled

1999

2001-2003



2005

2012

2018

2023

2053

Project Authorized for Construction in the Water
Resources Development Act
(WRDA), Public Law 106-53

1st Periodic Renourishment and Emergency Renourishment Completed due to historical 2004 hurricane season (Charley, Frances, Ivan and Jeanne) **3**rd **Periodic Renourishment** Completed

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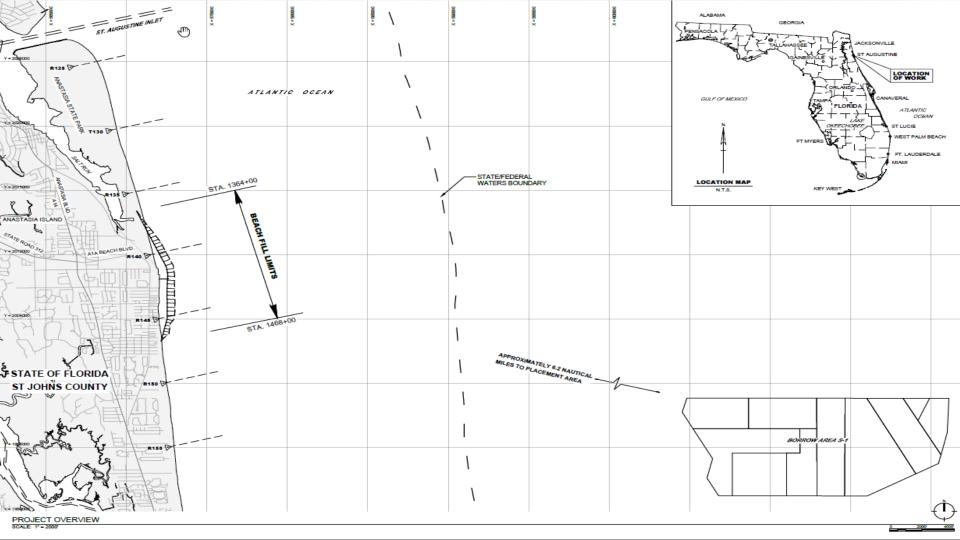
End of Project 50-year life, new study required

Estimated Total Cost \$40 million at 100% Federal

KEY FACTS

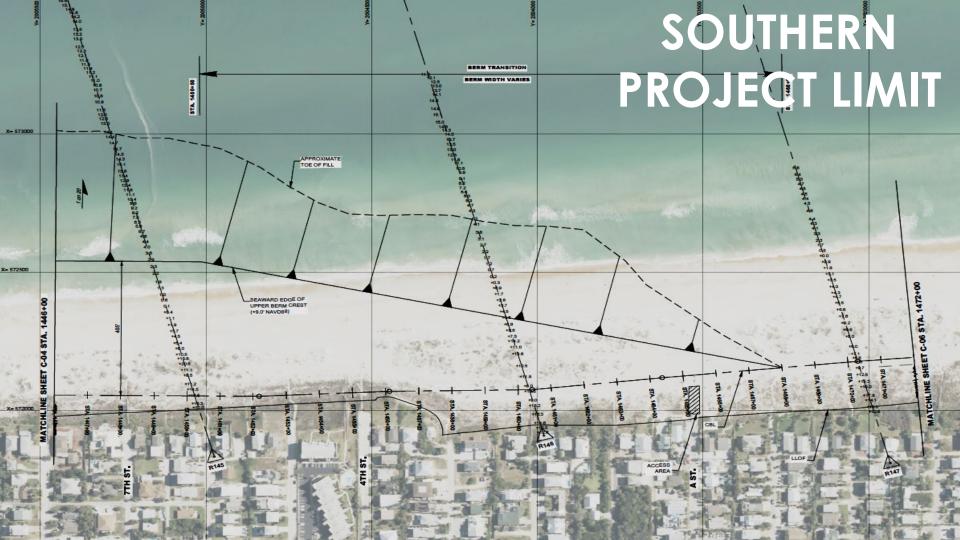
- Project Non-Federal Sponsor: St. Johns County (Board of County Commissioners)
- Initial Construction Completed: 2001 2003
- Project remains authorized for 50 years after completion of initial construction (2053)
- Renourishments authorized every 5 years (could be sooner if conditions warrant)
- Project Cost Share: 80.5% Fed 19.5% Non-Fed
- Project Qualifies for Emergency Renourishment Funding (Stafford Act) after named storms w/Presidential Declaration and Approved Project Information Report (PIR) – 100% Federal
- Sponsor required to maintain project between construction events (check signage, tilling, vegetation, condition monitoring, environmental monitoring, etc.)

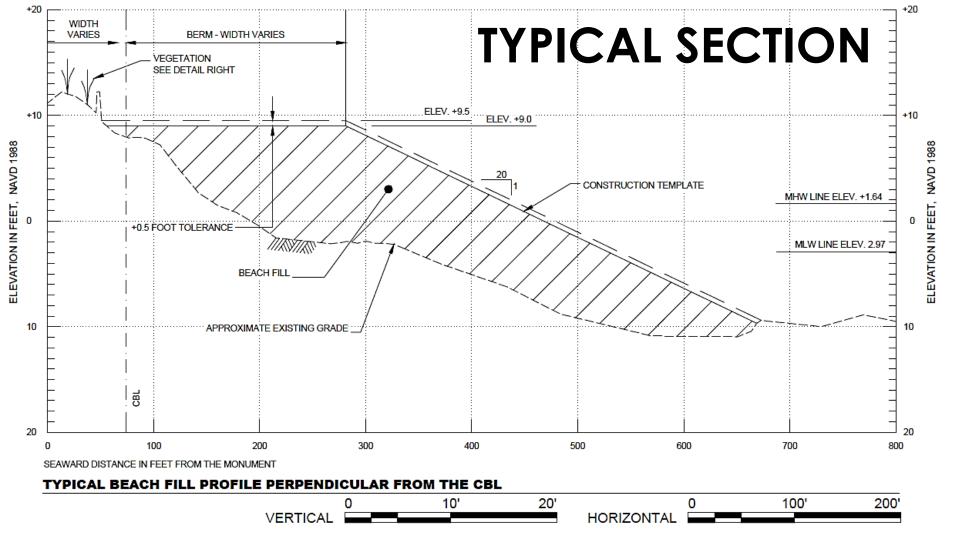






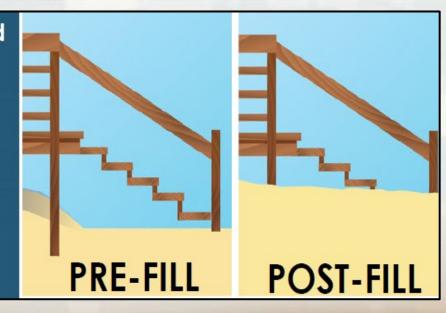






DUNE WALKOVERS

- The contractor will place sand on, around and underneath each walkover to maintain a continuous protective dune.
- Sand will naturally equilibrate and expose walkover steps over time.
- Photos will be taken of each walkover prior to construction.
- The contractor is bonded and insured if damage occurs as a result of construction activities.



SCHEDULE & PRICING SCHEDULE

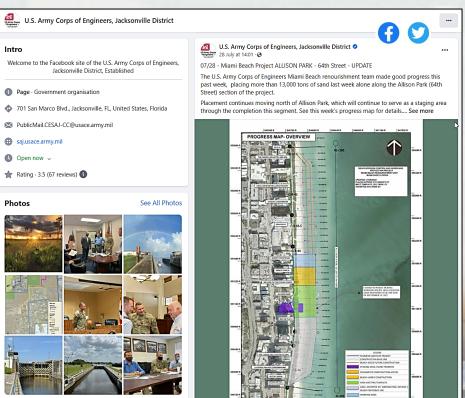
Activity	Start	Finish		
Contract Advertisement	July 25, 2023	August 25, 2023		
Bid Opening	August 25, 2023			
Turtle Nest Relocations Start	August 28, 2023			
Contract Award	September 29, 2023			
Notice to Proceed	October 29, 2023			
Mobilization Starts (65 calendar days after nest relocations start)	November 1, 2023			
Anticipated Construction Completion	June	30, 2024		

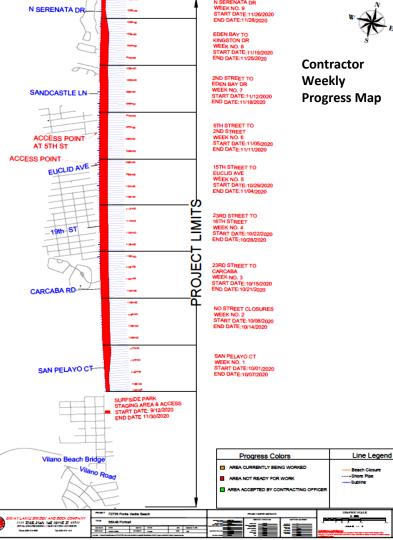
SECTION 00010A LINE ITEMS AND PRICING SCHEDULE SHORE PROTECTION PROJECT ST. AUGUSTINE BEACH, RENOURISHMENT 2023 ST. JOHNS COUNTY, FLORIDA

	LINE ITEM	DESCRIPTION	QUANTITY	<u>UNIT</u>	UNIT PRICE	TOTAL
	0001	MOBILIZATION AND DEMOBILIZATION		JOB		\$
	0002	BEACH FILLL (ESTIMATED QUANTITY)	2,500,000	CUBIC YARD	\$	\$
	0003	BEACH TILLING (ESTIMATED QUANTITY)	95	ACRE	\$	\$
	0004	SCREENING (ESTIMATED QUANTITY)	2,500,000	CUBIC YARD	\$	\$
	0005	REMEDIATION OF NONCOMPLIANT MATERIAL (ESTIMATED QUANTITY)	1	ACRE	\$	\$
	0006	TRANSPORTATION AND DISPOSAL OF UNACCEPTABLE MATERIAL (ESTIMATED QUANTITY)	500	CUBIC YARD	\$	\$
	0007	VIBRATION CONTROL AND MONITORING		JOB		\$
	0008	ENVINRONMENTAL SPECIES MONITORING		JOB		\$
	0009	TURBIDITY MONITORING		JOB		\$
	0010	STANDBY TIME (SEE NOTE 3)	72	HOUR	\$	\$
	0011	MOBILIZATION AND DEMOBILIZATION FOR CAPTURE SEA TURTLE TRAWL SWEEPING AND RELOCATION (HOPPER DREDGE ONLY, SEE NOTE 2)		JOB		\$
72.00	0012	SEA TURTLE CAPTURE TRAWL SWEEPING AND RELOCATION (HOPPER DREDGE ONLY, ESTIMATED QUANTITY, SEE NOTE 2)	3	DAY	\$	\$

TOTAL BID (LINE ITEMS 0001 THROUGH 0012)

COMMUNITY CONNECTIONS





WHAT TO EXPECT WITH BEACH CONSTRUCTION

D U R I N G

- Contract will stage equipment near the beach (metal pipe, trucks, etc.)
- Construction will likely occur 24/7 until complete, backup alarms, lights, noise.
- Sand will be pumped onto the beach from offshore and graded into place by bulldozers and other equipment.
- Sections of the beach will be closed off while working (~1,000 sections w/crossovers).
- Updated progress maps will be published on social media and local news.
- Safety personnel will be on site to direct the general public away from potential hazards.

F T E

- Beach will naturally reshape and equilibrate quickly due to severe erosion.
- Escarpments will form along the new template (sponsor is responsible to remove and maintain beach template after construction).
- Any dune repairs (above 9 ft. NAVD88) and vegetation will be completed by the County/City as desired.
- Walkovers will naturally become exposed as sand erodes.
- USACE and Sponsor will monitor the beach frequently to determine when renourishment is needed or soon after major storm events.

Questions?