





Discussion Topics



Project Need & Approach



Community Engagement



Project Funding



Questions









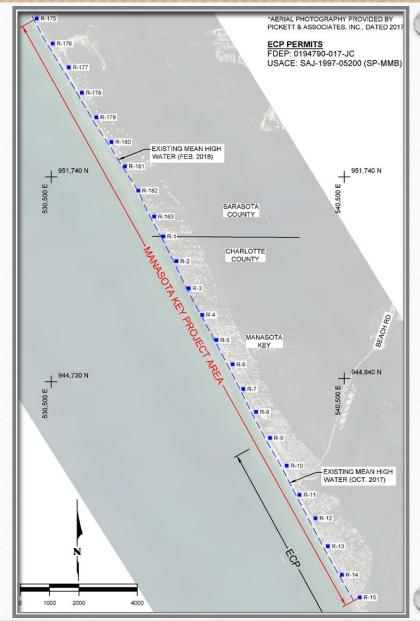
PROJECT
NEED &
APPROACH

- Project Description
- Project Need
- Design Approach
- Challenges
- Construction Fun Facts



PROJECT DESCRIPTION

- Regional Beach Restoration Project
- 4.6 Miles of Designated Critically Eroding Beaches along Sarasota and Charlotte County Shorelines
- No Prior Beach Project along significant stretch of developed shoreline
- Co-funded by the Counties and State of Florida
- State Stats: Ranked 3rd(Vol), 4th(Length) Cost Share ~ \$12.65 Mil (35%)



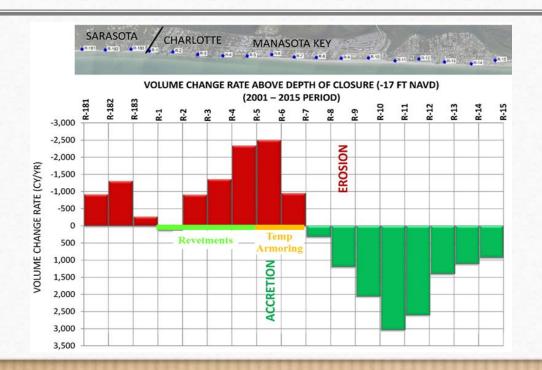








- 2001-03 Joint Beach Erosion Study
- Background Erosion Rate < 1 ft/yr (74-01)
- Small area of exposed hardbottom
- Beach restoration recommended but never pursued due to lack of consensus



PROJECT NEED





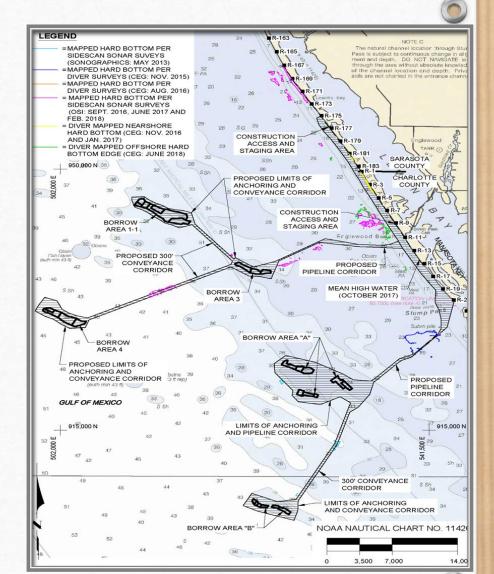




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DESIGN APPROACH

- Beach Fill Template
 - Design Storm ~ 25-Year Return Interval
 - 50 ft Wide Design Template
 - Beach Width Varies (e.g., Existing Armoring)
 - Design Volume ~ 879,000 CY
- Nearshore Hardbottom Impacts
 - Over 4 AC will be covered requiring mitigation
 Construct artificial reef using native limestone
- Offshore Borrow Areas
 - Identified 3 New Sand Sources > 2 MCY
 - Existing Project has 5 Permitted Areas > 1 MCY

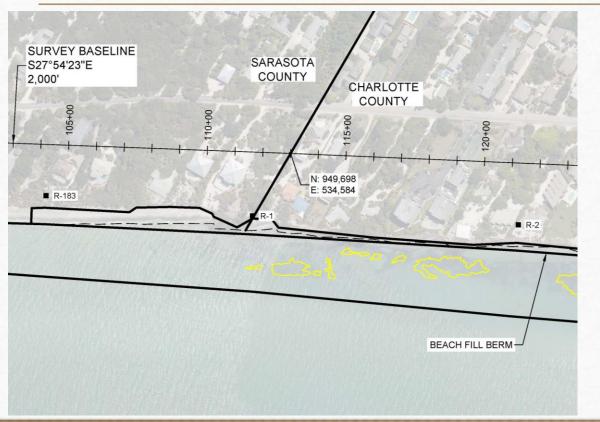


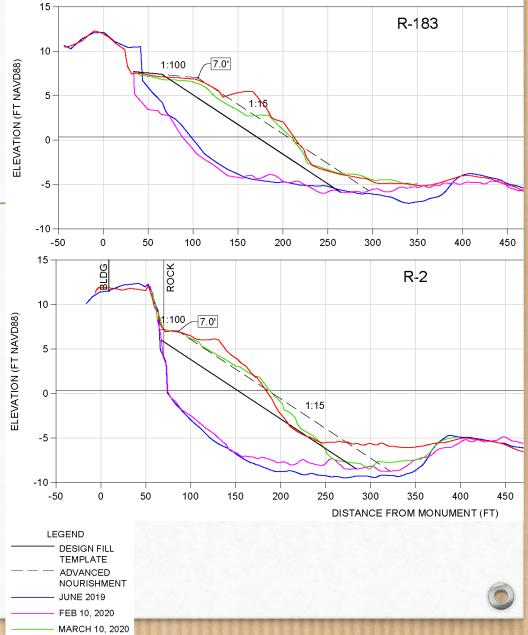






Design Plan and Sections 25-Yr Return Storm 50-Ft Design Berm + Advanced Nourishment





JUNE 2020





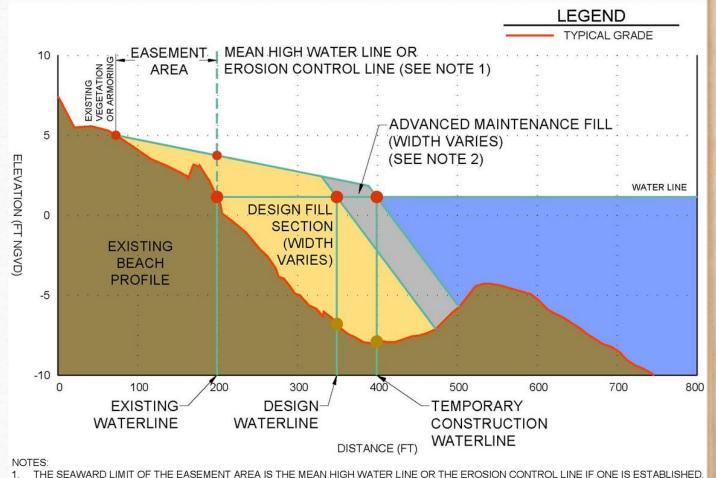
Construction Easements

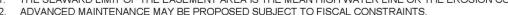
- **Erosion Control Line**
 - Stakeholder Opposition
- Nearshore Hardbottom **Impacts**
 - Mitigation



CHALLENGES











Erosion Control Line (ECL)

• ECL State Policy (FS 161.141)

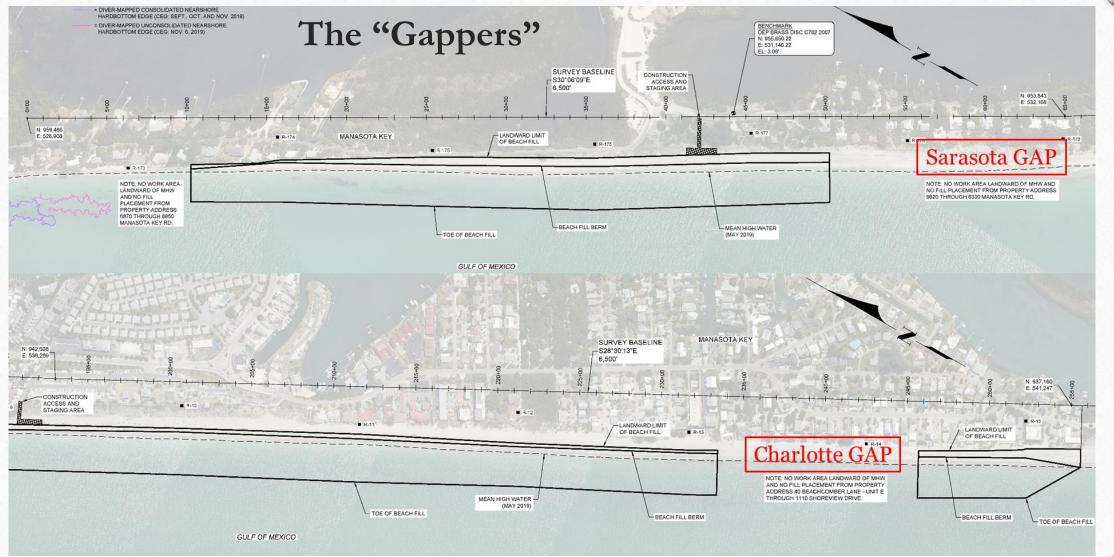


- The Legislature declares that it is the public policy of the state to cause to be fixed and determined, pursuant to beach restoration, beach nourishment, and erosion control projects, the boundary line between sovereignty lands of the state bordering on the Atlantic Ocean, the Gulf of Mexico, or the Straits of Florida, and the bays, lagoons, and other tidal reaches thereof, and the upland properties adjacent thereto...
- ECL Definition: Record of the Mean High Water Line (MHW) at the time established to legally document and fix the boundary between upland riparian property ownership and submerged lands of the State. MHW survey to be performed within six months of construction.









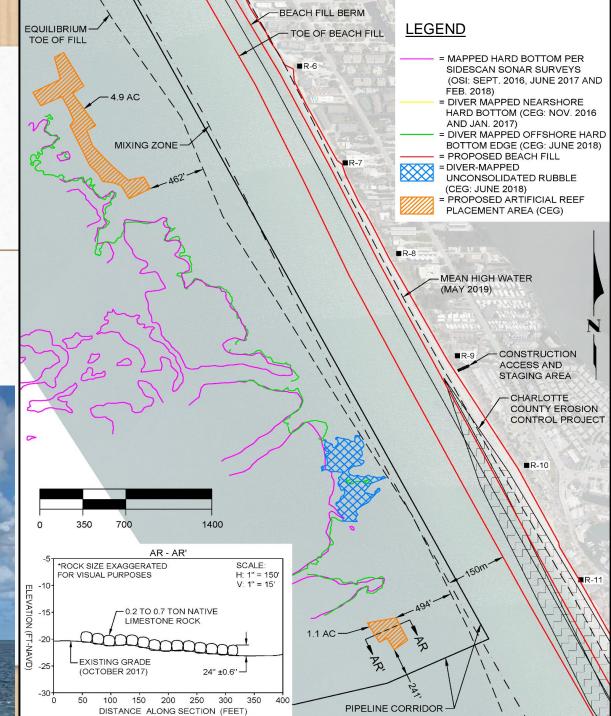




MITIGATION REEF

- Area = 3.9 Acres (Net) (80%-N, 20%-S)
- Estimated # of Rocks = 16,472
- Location ~ 1400 Ft Offshore
- Contractor: Cayo LLC
- Engineer's Opinion of Cost: \$6,957,000
- Bid Range: \$6,817,100 \$9,100,000











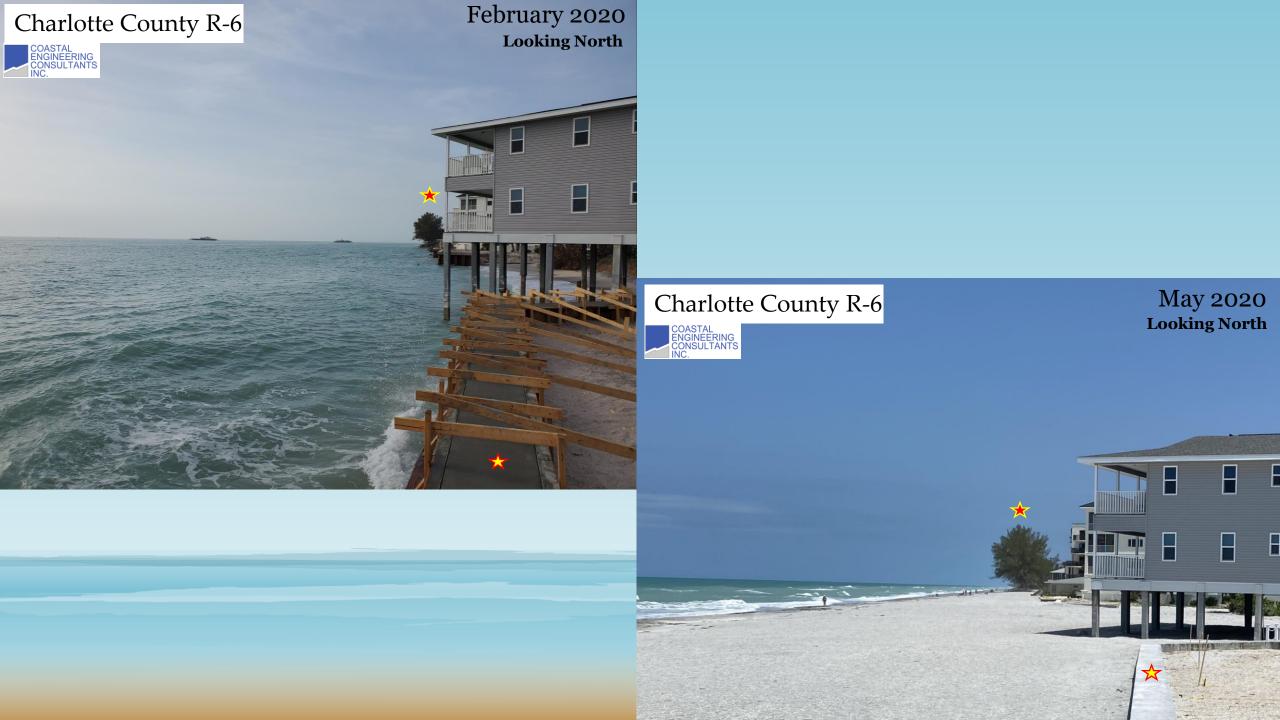
CONSTRUCTION FUN FACTS



- Length = 3.82 Miles
- Volume Placed = 880,280 CY
- Borrow Area ~ 4.2 NM Offshore
- Contractor: Great Lakes Dredge & Dock
- Dredge Details: Padre Island, Dodge Island
- Engineer's Opinion of Cost: \$30,550,320
- Bid Range: \$30,451,850 \$32,505,000
- Estimated "Regional" Savings ~ \$8 Mil
- Avg Production Rate ~ 18,340 CY/Day























Raising local funds for beach nourishment.

It can be done.





Why Local Funding is Hard

- **Foisting off** No one wants to pay, everyone wants to foist the cost on others.
- Futility "You can't fight mother nature. It's all going to wash away."
- **Fault** "I didn't buy house on the beach or on the island so it's not my fault and I should not pay."
- Frames of Reference Key decision-makers operate under different timeframes of reference. Landowners, elected officials, and coastal engineers and geologist see the problem and he action horizon differently.







- Commit to a ground-up process. Be willing to learn what will work
- Develop the funding strategy through true open community workshops
- Expected Timeframe: 6-12 months? (It's done when it's done)
- Cornerstone of Engagement: Discover "what is fair and workable" for the community

This is not a campaign to sell a pre-determined funding approach.









There's Nothing Like a Beach

Public Benefits

- Community "park"
- Protects public infrastructure
- Foundation of the tourism economy
- Increases the property tax base
- Increases public revenue
- If maintained, beaches provide a substantial public income stream

Private Benefits

- Protects private structures
- Increases property values
- Drives rental and commercial income
- Provides recreational & spiritual benefits
- Great place for young and old
- If maintained, beaches protect property values and provide reliable private income stream









Dual Benefits of the Beach

The Key to the Kingdom

- Successful local funding strategies reflect the **Public** and **Private** nature of beaches
- Local funding plans run into trouble when:
 - Public benefits of the beach are emphasized without regard to the private benefits; or
 - Private benefits are emphasized without regard to public benefits
- Successful funding plans must recognize and reflect that everyone has a stake in wide, healthy, stable beaches – public and private sector









Beach Funding Philosophy

- The beach is an economic and community asset
- Erosion is a natural process that can adversely affect public and private interests and the economy
- Beach communities must work together to address erosion as best they can
- Funding streams must be as persistent as the waves











Secret #1: "Discover" What is Fair

- Within the Community The funding plan must be "fair and equitable" in the eyes of most in the community.
- Funding Process Must be transparent, have wide participation, and be flexible in exploring options.
- To Adopt a Funding Plan Community support must precede local government action.









Secret #2: Avoid the Perfection Trap

- Funding Strategies can become complex . . . and the discussions and debate can continue for months and years, losing precious time
- **Best Rule:** Avoid the perfection trap, find a reasonable funding solution that works for you and move forward to implement your beach program









Secret #3: Build Broad Funding Coalitions

All of the Above

Public Sector

- Federal
- State
- County / City
- Tourism Development Council
- Special Districts such as Erosion Control & Navigation districts

Private Sector

- Property Owners Beachfront, off-beach,
 & mainland
- Commercial Operators Hotel, retail, attractions
- Vacationers/Day Trippers- Bed Taxes,
 Parking Fees









Secret #4: Secure "FEMA Beach" Eligibility

• Purpose:

- Ensure the local beach project is eligible for federal reimbursement if the beach is lost or damaged in a "declared disaster" (Insurance)
- FEMA Beach Eligibility Requirements:
 - Monitor Annual beach profiles
 - Maintain Annual maintenance & regular renourishment
 - Fund Establish stable & adequate funding source









Secret #5: Dedicate Revenue to a Beach Fund

- Set aside new revenue in a Dedicated Fund
- Use Fund for Specified Purposes Only:
 - Design, Permit & Construct Beach Projects
 - Annual Beach Monitoring Program
 - Beach and Dune Maintenance Program

No funds for beach cleanup, lifeguards, beach patrol, or other beach-related costs









FUNDING OPTIONS

- Grants
- General Fund
- Municipal Service Taxing Units
- Municipal Service Benefit Units

MUNICIPAL SERVICE TAXING UNIT

- "MSTU"
- §125.01(q) and (r), Florida Statutes
- "Beach Erosion Control" enumerated
- Not a special district
- Property Tax Funding Source
- Levy by a county within millage limits for "municipal purposes."
- No referendum required
- Ad valorem tax levied less than countywide without violating Article VII, §2, Fla. Const.

MSTU BASICS Creation: Ordinance

Deadlines: January 1 or July 1 per Section

200.066, Florida Statutes

Consent: Municipal Consent by

ordinance if includes

incorporated areas

Millage: Levied through annual budget

and TRIM process;

aggregated with County

millage.

MUNICIPAL SERVICE BENEFIT UNIT

- "MSBU"
- §125.01(q) and (r), Florida Statutes
- Special Assessment Funding Source
- Uniform Method of Collection in §197.3632, Florida Statutes

SPECIAL ASSESSMENTS

Special assessments are charges assessed against the property of some particular locality because that property derives some *special benefit* from the expenditure of the money.









SPECIAL ASSESSMENT CASE LAW

Special Benefit to Property
and
Fair and Reasonable Apportionment

*Beach Renourishment, See Donovan v. Okaloosa County, 82 So. 3d 801 (Fla. 2012)









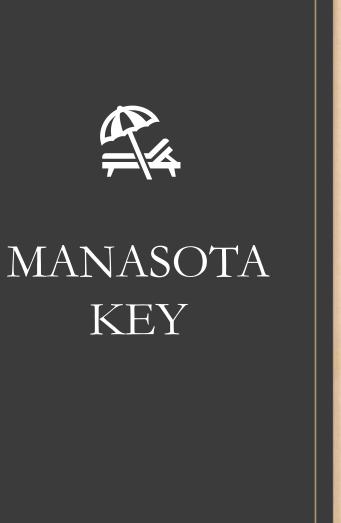
APPORTIONMENT

- Fair and Reasonable
- Logically and factually driven method must be developed to spread the costs among the benefited properties.
- Does method of apportionment make sense in terms of what is being provided?
- Legislative determination receives judicial deference.









- Area Specific Approach
- Benefit Zones based on proximity to beach and properties in critically eroded areas
- Weighted benefit
- REC Uniform benefit on entire barrier island based on recreational access to a healthy and accessible beach
- NBZ Greater benefit to beach area parcels based on storm damage protection





Island-wide REC Apportionment

- Residential
 - EDU Current or Potential Dwelling Units
- Commercial
 - Proportionate Just Value with minimum charge equal to one EDU
- Government
 - Proportionate Just Value with minimum charge equal to one EDU
 - Paid by County









Beach Area NBZ Apportionment

- Beachfront Footage
- Lot Size
- Only Tax Parcels in Nearshore Benefit Zone





