Public Works Department Coastal Division

July 16, 2015



Coastal Infrastructure

- 99 dune walkovers
 - 9 beachfront parks
 - 2 inlet parks
- 11 inlet park dune walkovers
- 20 public restroom facilities (1 new restroom facility under way)
- 19 off-beach parking lots (7 new lots to be developed)
- 41 beach ramps (21 w/public parking 20 w/out)
- 28 beach port-a-lets
- 30 toll booths
- 37 on-beach showers
- 439 beach garbage collections points
 - 1 boat ramp
 - 2 fishing piers (1 new pier to be developed)
 - 1 jetty deck
 - 1 beachfront boardwalk (TBD)

Dispersed over 35 miles of coastline.

Coastal Maintenance Program

- Deferred maintenance during economic downturn
- Aging infrastructure
- Harsh environmental conditions
- Vandalism
- Adding new assets

FY 14/15

- Reorganized
- Funded four previously unfunded positions
- Began assessment of coastal infrastructure
- Developing annual maintenance plan
- Began repairs to safety and access issues
- Grant applications for major renovation projects

Walkover Rehabilitation Program

- 99 wooden dune walkovers
- Aging infrastructure
- Harsh environmental conditions
- Major storm events have driven walkover rebuilding/rehabilitation in the past



No storms in 10 yrs; many structures built at the same time are now failing at the same time.





Walkover Rehabilitation Program

99 wooden walkover structures

North: 57 structures totaling 5,745 linear feet South: 43 structures totaling 6,460 linear feet

Approx half to be rebuilt; remaining to be rehabilitated

Total estimated program cost of \$1.5-\$2.0M
5-yr program proposed
20 structures a year @ \$300,000-\$400,000

Potential cost saving measures:

- Review walkover spacing
- Alternative design



Coastal Maintenance Program

Going forward -

FY 15/16

- Finalize assessment of coastal infrastructure
- Develop prioritized maintenance list
 - Public safety
 - Routine maintenance
 - Environmental protection
 - Public access
 - Aesthetics

Issues

Budget

Coastal Capital Projects

Revenue sources:

Beach capital \$700,000/yr.

Inlet district \$350,000/yr.

Grants ECHO, FIND

Purpose

Improve and expand coastal public access.

Improve infrastructure appearance and function.

Environmental resource protection

Priorities

Renovation of existing assets.

Expanding access at existing facilities.

New construction (parking & pedestrian facilities)

Projects

Restroom and beach ramp renovations

Beach Safety/Ocean Rescue infrastructure

Beach sign and way-finding improvements

Beach and inlet park renovations

Off-beach parking lot development

Waterway and boating access

Recent Projects

Toronita off-beach parking





Wilbur Boathouse pier



Recent Projects



Riverview Boulevard restroom





Recent Projects



Lifeguard base towers



Beach & Coastal Dunlawton facility



Toll booths

Recent Projects

Signs and way-finding markers





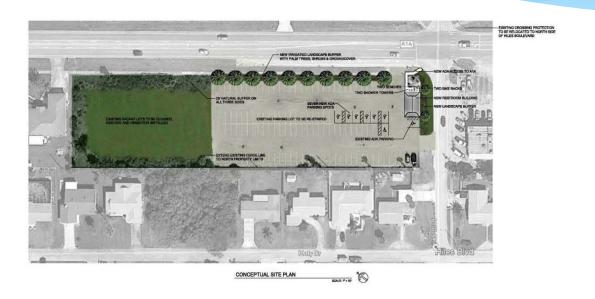




Ramp gates



FY15-16 Projects









Project elements

Restrooms
Landscaping
Addtnl. parking
Improved crosswalk
Expanded h-cap parking

Funding

Beach capital: \$241,990 ECHO grant: \$302,925 Total \$544,915

Hiles Boulevard off-beach lot expansion and renovation

FY15-16 Projects





Project elements

New entrance columns and signage

Two additional picnic pavilions

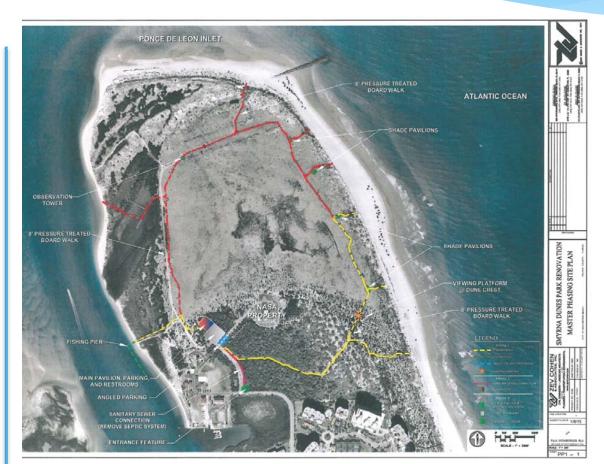
Pedestrian pass throughs

Funding \$150,000

Sources Beach Capital



FY15-16 Projects



Project elements

Boardwalk renovation / widening Entrance improvements Fishing pier Additional parking Sanitary sewer connection

Funding

Phase I (15/16) \$2,016,392
Phase II (16/17) \$2,127,500
Total \$4,143,892

Sources

Inlet district FIND grant ECHO grant

FY15-16 Projects







Nearshore reef buoy system

FY15-16 Projects



Off-beach Parking Lot Development



Off-beach Parking Lot Development*

1. Westin	97 spaces	\$1,358,000			
2. 726 N. Atlantic	90 spaces	\$1,260,000			
3. Argosy	56 spaces	\$ 784,000			
4. Jasmin	83 spaces	\$1,162,000			
5. 3167 S. Atlantic	130 spaces	\$1,820,000			
6. Cardinal	135 spaces	\$1,890,000			
Total	591 spaces	\$8,274,000			
	*estimates only; \$14,000/space				

Capital Improvement Plan	Fiscal Year					
313 Beach Capital and 114 Inlet District Funds	2015-16	2016-17	2017-18	2018-19	2019-20	
Off-beach Parking Development	\$500,000	\$350,000	\$791,792	\$835,086		
Beach Safety Ocean Rescue Infrastructure	\$116,625	\$160,000	\$145,000	\$125,000	\$125,000	
Beach Restroom Renovation	\$210,000	\$250,000				
Beach Ramp Renovation	\$546,000	\$267,500	\$395,000	\$30,000	\$700,000	
Public Access Facilities	\$2,178,060	\$575,000	\$100,000			
Inlet Dredging	\$440,000	\$150,000	\$150,000	\$150,000	\$150,000	
Inlet Parks Renovation	\$150,000	\$2,527,500				
Boating & Waterway Access	\$175,000	\$175,000	\$175,000	\$175,000	\$175,000	
GRAND TOTAL	\$4,315,685	\$4,455,000	\$1,756,792	\$1,315,086	\$1,150,000	

Considerations

Funding

Long-term maintenance costs

Discussion

