

# REACH 7

## PHIPPS OCEAN PARK BEACH NOURISHMENT HARBOUR HOUSE CONDOMINIUM

- Construction from January to April 2016
- >1,000,000 cubic yards of sand placed
- North end of Phipps Ocean Park to the north end of the county's Kreuzler Park
- Dune restoration north of Phipps Ocean Park to Sloan's Curve
- Offshore source of sand
- Cutterhead dredge
- Pre-, during, and post-construction turbidity monitoring
- Vegetated dunes with 37,000 sea oats and native plants
- Cost of approximately \$16,000,000



BEACH MANAGEMENT AGREEMENT  
3<sup>RD</sup> ANNUAL STAKEHOLDER MEETING  
DECEMBER 7, 2016

# REACH 3

## DUNE RESTORATION

### WELLS ROAD

- **Construction from march to April 2016**
- **15,000 cubic yards of sand placed**
- **Approximately 3,000 linear feet of beach**
- **From el mirasol to Sunset Avenue**
- **Offshore source of sand**
- **Truck-hauled from Phipps Ocean Park**
- **Access to beach from Dunbar Road**
- **Installation of nearly 20,000 sea oats and native plants**
- **Cost of approximately \$400,000**



BEACH MANAGEMENT AGREEMENT  
3<sup>RD</sup> ANNUAL STAKEHOLDER MEETING  
DECEMBER 7, 2016

# REACH 8

## DUNE RESTORATION

### 3360 CONDOMINIUM

- **Construction from March to April 2016**
- **Approximately 8,500 cubic yards of sand placed**
- **Approximately 5,000 linear feet of beach**
- **From Bellaria Condominium to La Bonne Vie Condominium**
- **Offshore source of sand**
- **Truck-hauled from phipps ocean park**
- **Access to beach from 3360 condominium**
- **Installation of nearly 18,000 sea oats and native plants**
- **Cost of approximately \$420,000**

# LAKE WORTH INLET MAINTENANCE DREDGING

- **Construction from February to March 2016**
- **Approximately 170,000 cubic yards of sand placed (per USACE)**
- **Approximately 3,000 linear feet of beach from the south jetty of the Lake Worth Inlet to angler avenue**
- **Source of sand from inlet channel, turning and settling basins**
- **Construction access to beach from angler avenue**



BEACH MANAGEMENT AGREEMENT  
3<sup>RD</sup> ANNUAL STAKEHOLDER MEETING  
DECEMBER 7, 2016

# REACH 1

## SAND TRANSFER PLANT DISCHARGE

- **Year-round bypassing**
- **Through November 2016, more than 120,000 cubic yards of sand bypassed**
- **Annual operation and maintenance costs funded by Palm Beach County**
- **The town is responsible for any capital repairs or improvements**



BEACH MANAGEMENT AGREEMENT  
3<sup>RD</sup> ANNUAL STAKEHOLDER MEETING  
DECEMBER 7, 2016

# REACH 2

## NORTH OCEAN BOULEVARD SEAWALL REPLACEMENT

- Construction completed in April 2016
- Approximately 1,600 linear feet of roadway protective seawall replaced
- Removal of 56 scuppers from discharging onto the beach
- Approximately \$6,000,000



BEACH MANAGEMENT AGREEMENT  
3<sup>RD</sup> ANNUAL STAKEHOLDER MEETING  
DECEMBER 7, 2016

20161071

# REACH 4

## DUNE RESTORATION

- **Construction expected in January 2017**
- **6,300 cubic yards of sand to be placed**
- **Approximately 2,000 linear feet of beach**
- **From Hammon Avenue to El Brillo Way**
- **Upland source of sand**
- **Truck-hauled to Mid-Town Beach**
- **Construction access to beach from Peruvian Avenue**
- **No cost to the town of Palm Beach**



BEACH MANAGEMENT AGREEMENT  
3<sup>RD</sup> ANNUAL STAKEHOLDER MEETING  
DECEMBER 7, 2016

# REACHES 2 THROUGH 5 OUTFALL REMOVAL

- Construction expected in 2017
- Addresses the remaining public outfalls identified in the BMA
- Includes the removal/abandonment of 9 outfalls discharging onto the beach
- Following this project, all public outfalls will have been either removed or abandoned, satisfying this net eco-system benefit (with exception of 1 being addressed by FDOT)
- Estimated cost of \$500,000



BEACH MANAGEMENT AGREEMENT  
3<sup>RD</sup> ANNUAL STAKEHOLDER MEETING  
DECEMBER 7, 2016