



**Department of Environmental
Resources Management**

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Board of County
Commissioners**

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May 21, 2020

Mr. Paul Brazil, Director of Public Works
Town of Palm Beach
360 South County Road
P.O. Box 2029
Palm Beach, FL 33480

**SUBJECT: TOWN APPROVAL FOR PLANNED RESILIENT
ISLANDS WITHIN THE LAKE WORTH LAGOON**

Dear Mr. Brazil:

As discussed at our meeting on March 5, 2020 between the Town and Palm Beach County Department of Environmental Resources Management (ERM) staff, please find attached conceptual project drawings of a proposed Palm Beach Resilient Islands Phase 1 for your review and approval. This initial phase would include a .38 acre mangrove island with six protective wave-breaks and twenty-three oyster reef modules.

We anticipate receiving funds from The Nature Conservancy (TNC) to construct this initial Phase that should provide some environmental resiliency to shorelines within Lake Worth Lagoon. This specific project would be situated south of the Everglades Island and north of Fisherman's Island. We would avoid any navigation channels and generally focus on the shallow-water area or "rock spine" that runs down the middle of the Lagoon. Our agreement with TNC is slated to go to the Board of County Commissioners for execution on June 16, 2020.

Also attached for your approval are two conceptual build-out areas that would be submitted to the permitting agencies to include a combination of reefs and small islands. The specifics to the structures within these areas would be subject to Town approval and successes learned from the initial Phase 1 effort.

We look forward to working with the Town on our continued effort to promote environmental improvements to the Lake Worth Lagoon.

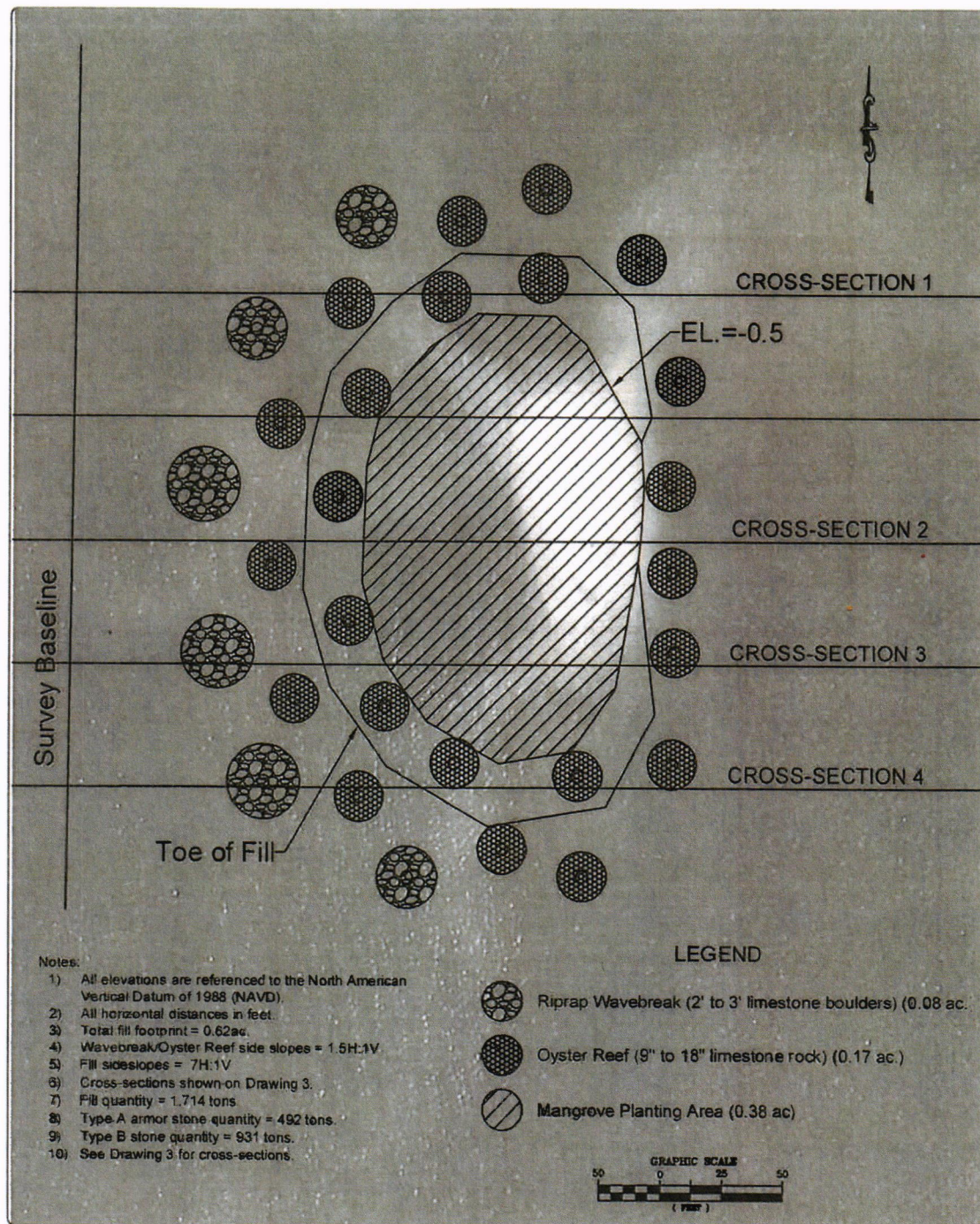
Please contact me at 561-233-2400 or ddrum@pbcgov.org or Mr. Carman Vare, Environmental Program Supervisor at 561-233-2444 or cvare@pbcgov.org with any questions or concerns.

Sincerely,

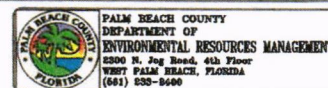
Deborah Drum, Director
Department of Environmental Resources Management

Attachments





DD:CV

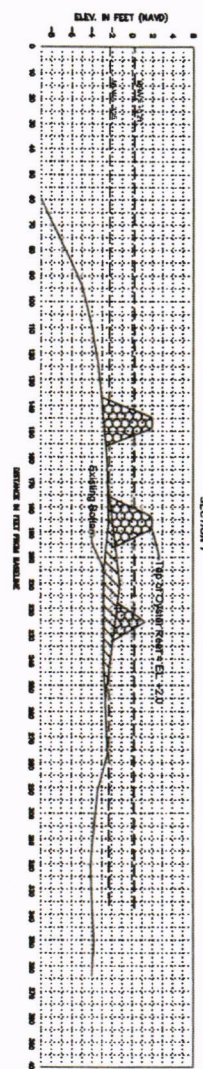
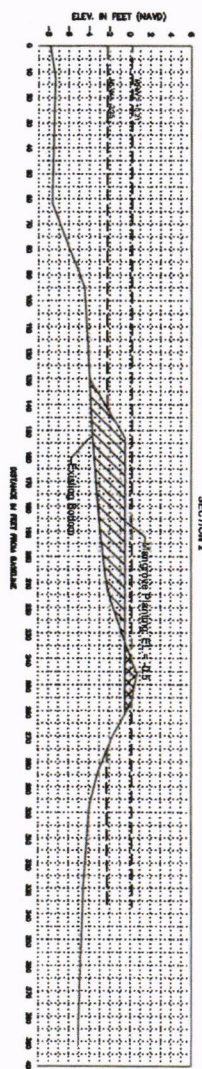
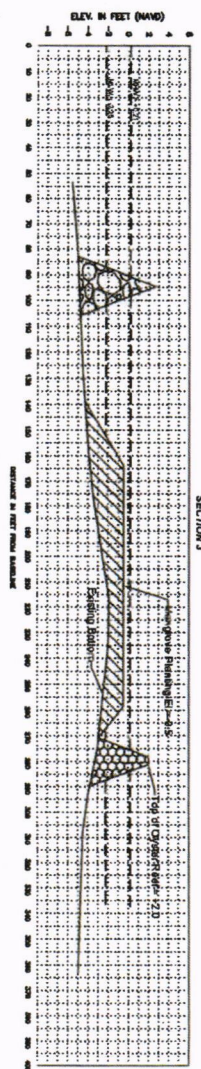
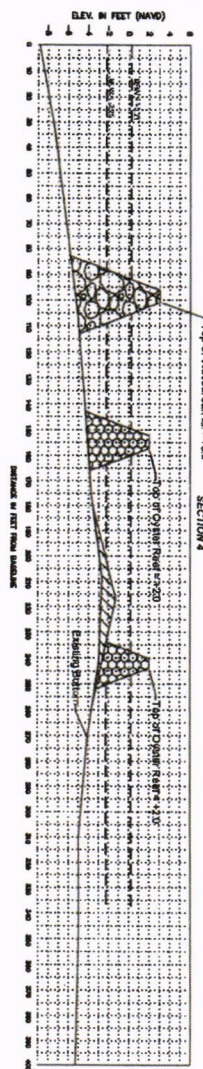


2	Palm Beach Resturant Islands Project	Scale	Revision									
			No.	Date	By	App.						
Phase 1 Plan View			<table border="1"> <tr> <td>Drawn by</td> <td>Checked by</td> <td>Reviewed by</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>				Drawn by	Checked by	Reviewed by			
Drawn by	Checked by	Reviewed by										



- Notes:
- 1) All elevations are referenced to the North American Vertical Datum of 1988 (NAVD).
 - 2) All horizontal distances in feet.
 - 3) Wavebreak/Oyster Reef side slopes = 1.5H:1V.
 - 4) Fill side slopes = 7H:1V.
 - 5) See Drawing 2 for section locations.

-  Riprap Wavebreak (Type A riprap, 1' to 3' limestone boulders)
 Oyster Reef (Type B riprap, 9" to 18" limestone rock)
 Fill Area
 Cut Area

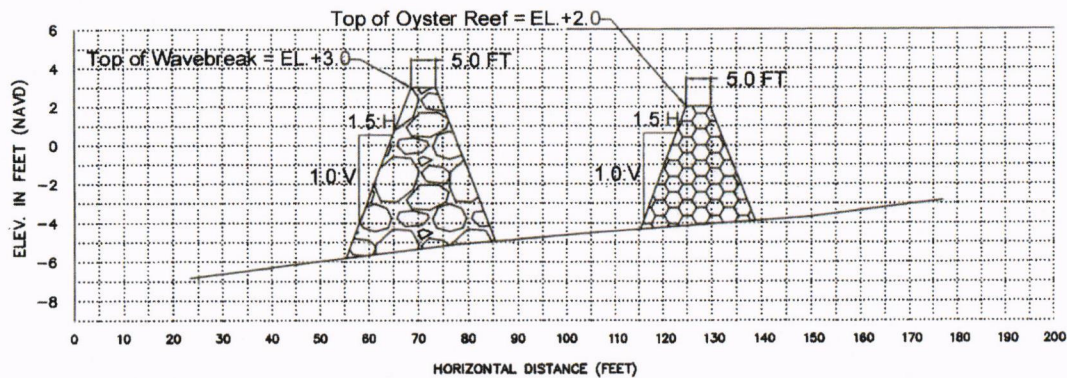


3 4	PALM BEACH RESILIENT ISLANDS PROJECT TYPICAL CROSS-SECTIONS	SCALE
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DATE: 11/11/2011 DRAWN BY: J. B. BROWN CHECKED BY: J. B. BROWN DESIGNED BY: J. B. BROWN PROJECT NO.: 11-00000000	11/11/2011 11/11/2011 11/11/2011 11/11/2011
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	PALM BEACH COUNTY DEPARTMENT OF ENVIRONMENTAL RESOURCES MANAGEMENT 5550 N. Bay Road, 4th Floor WEST PALM BEACH, FLORIDA (561) 833-8400
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TYPICAL WAVEBREAK/OYSTER REEF CROSS-SECTIONS



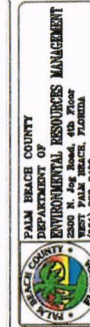
Riprap Wavebreak (Type A riprap, 1' to 3' limestone boulders)



Oyster Reef (Type B riprap, 9" to 18" limestone rock)

Notes:

- 1) All elevations are referenced to the North American Vertical Datum of 1988 (NAVD).
- 2) All horizontal distances in feet.
- 3) Wavebreak and Oyster Reef side slopes = 1.5H:1V.
- 4) Wavebreak and Oyster Reefs are 5 ft wide at the crest.
- 5) Base widths vary depending on depth.



DATE	AS NOTED
DESIGNED BY	SEA
CHECKED BY	SEA
DATE	SEA

SEAL

PALM BEACH RESIDENT PLANS PROJECT
TYPICAL CROSS-SECTIONS
WAVEBREAKS AND OYSTER REEFS

4

