

CITY OF BOCA RATON CAPITAL IMPROVEMENT PLAN

Boca Raton Inlet and Jetties

PROJECT #: 440019

PRIORITY: 32

LOCATION

Boca Raton Inlet

DEPARTMENT

Municipal Services

DESCRIPTION

The City has continuously performed the dredging since 1972 with no significant periods of downtime, with the exception for a brief period in 2002.

Over the past few years, it has been observed that the North Jetty Rocks have experienced settlement since the 2008 Jetty Rehabilitation. Because of this settlement, the North Jetty could potentially become a navigational hazard, especially during spring high tide events when portions of the jetty become submerged. The maintenance repairs to the north jetty will re-establish the design elevation of the north jetty.

FY 2020/21

Construction- rehabilitation of the North Jetty - \$1,000,000 (re-allocation from FY 2019/20)

During Const. environmental monitoring for the Rehabilitation of the North Jetty

FEP permitting (sand bypassing 5-year renewal)

FEP permitting (2nd Discharge)

USACE permitting (sand bypassing)

Permit required physical monitoring.

FY 2021/22

Permit required physical monitoring.

FY 2022/23

Permit required physical monitoring.

Construction of the second discharge south of the Boca Raton Inlet.

FY 2023/24

Permit required physical monitoring.

FDEP Permitting (sand bypassing 5-year renewal)

FY 2024/25

FDEP Permitting (sand bypassing 5-year renewal)

FY 2025/26

FDEP Permitting (sand bypassing 5-year renewal)

JUSTIFICATION

This project is the maintenance dredging of Boca Raton Inlet and placement of bypassed sand to the south side of the inlet. The excavated sand is discharged on the beach landward of the MHW line, within 500 feet south of the south jetty.

To conduct these continuous operations, the City is required to maintain both Florida Department of Environmental Protection and USACE permits. Additionally, as part of the permit requirements, the City is required to conduct annual monitoring and reporting of the bypassing efforts.

The jetty is a quarried rock structure on a rock-filled geogrid marine mattress foundation. The jetty includes a shore-attached section and detached section. The shore-attached section extends approximately 50 feet seaward of the MHW. The detached section provides a 75-foot gap from the shore-attached section and the structure is approximately 100-feet long. The open gap serves as a weir section in effort to maintain the southerly net littoral drift.

IMPACT

N/A

PROJECT COST AND FUNDING

**CITY OF BOCA RATON
CAPITAL IMPROVEMENT PLAN**

	2021	2022	2023	2024	2025	2026	TOTAL
CONSTRUCTION	\$1,000,000	\$0	\$0	\$0	\$0	\$0	\$1,000,000
DESIGN & PERMITTING	\$400,000	\$27,000	\$28,100	\$64,200	\$30,400	\$31,600	\$581,300
PROJECT COSTS	\$1,400,000	\$27,000	\$28,100	\$64,200	\$30,400	\$31,600	\$1,581,300
ACCTNUM	2021	2022	2023	2024	2025	2026	TOTAL
354-4471-537.63-59	\$1,000,000	\$0	\$0	\$0	\$0	\$0	\$1,000,000
354-4471-537.63-59	\$400,000	\$27,000	\$28,100	\$64,200	\$30,400	\$31,600	\$581,300
PROJECT COSTS	\$1,400,000	\$27,000	\$28,100	\$64,200	\$30,400	\$31,600	\$1,581,300
BPD	\$25,000	\$3,300	\$103,500	\$8,000	\$3,800	\$3,900	\$147,500
BRF	\$1,225,000	\$3,400	\$103,500	\$8,000	\$3,800	\$4,000	\$1,347,700
DEP	\$150,000	\$20,300	\$621,000	\$48,000	\$22,800	\$23,700	\$885,800
PROJECT FUNDING	\$1,400,000	\$27,000	\$828,000	\$64,000	\$30,400	\$31,600	\$2,381,000