



TOWN OF CUTLER BAY

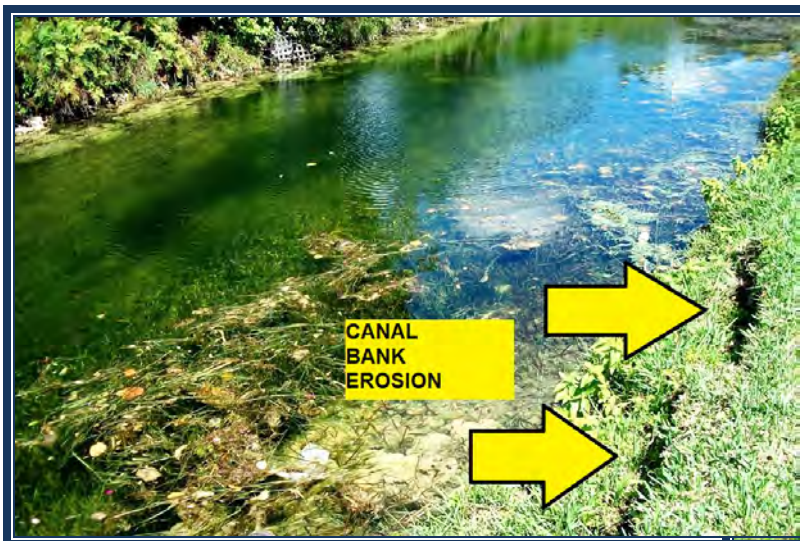
2020-04

State Legislative Session

Funding Request(s)

PROJECT:

CANAL BANK EROSION PROTECTION PROJECT





Office of the Town Manager

Rafael G. Casals, CFM, ICMA-CM
Town Manager

Canal Bank Erosion Project

Amount Requested: \$245,000 (70%)
Match funding available: \$105,000 (30%)
Total Project Cost: \$350,000

Contact Person: Rafael G. Casals, Town Manager
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Project Abstract:

The Town of Cutler Bay is requesting \$245,000 to implement the Canal Bank Erosion Protection project in accordance with the Town's current Local Mitigation Strategy. This project includes the removal of undesirable debris, trees, predominantly Australian pines and fichus, located in close proximity to the canal bank. These trees are prone to falling during a severe windstorm or hurricane causing flow obstruction as well as damage to the canal bank resulting in increased erosion. The Town will use funding to design and construct erosion protection structures and bank stabilization projects along Town maintained canals. The Town has coordinated with the South Florida Water Management District (SFWMD) to construct a canal stabilization project, south of the Caribbean Boulevard Bridge, located along the C100B canal. This work will be performed by SFWMD crews. The Town hopes to implement these same improvements in other Town maintained canals. This project is identified as "Project 2" in the Town's Local Mitigation Strategy that was originally adopted in August 2014 via Resolution #14-55; and updated annually.

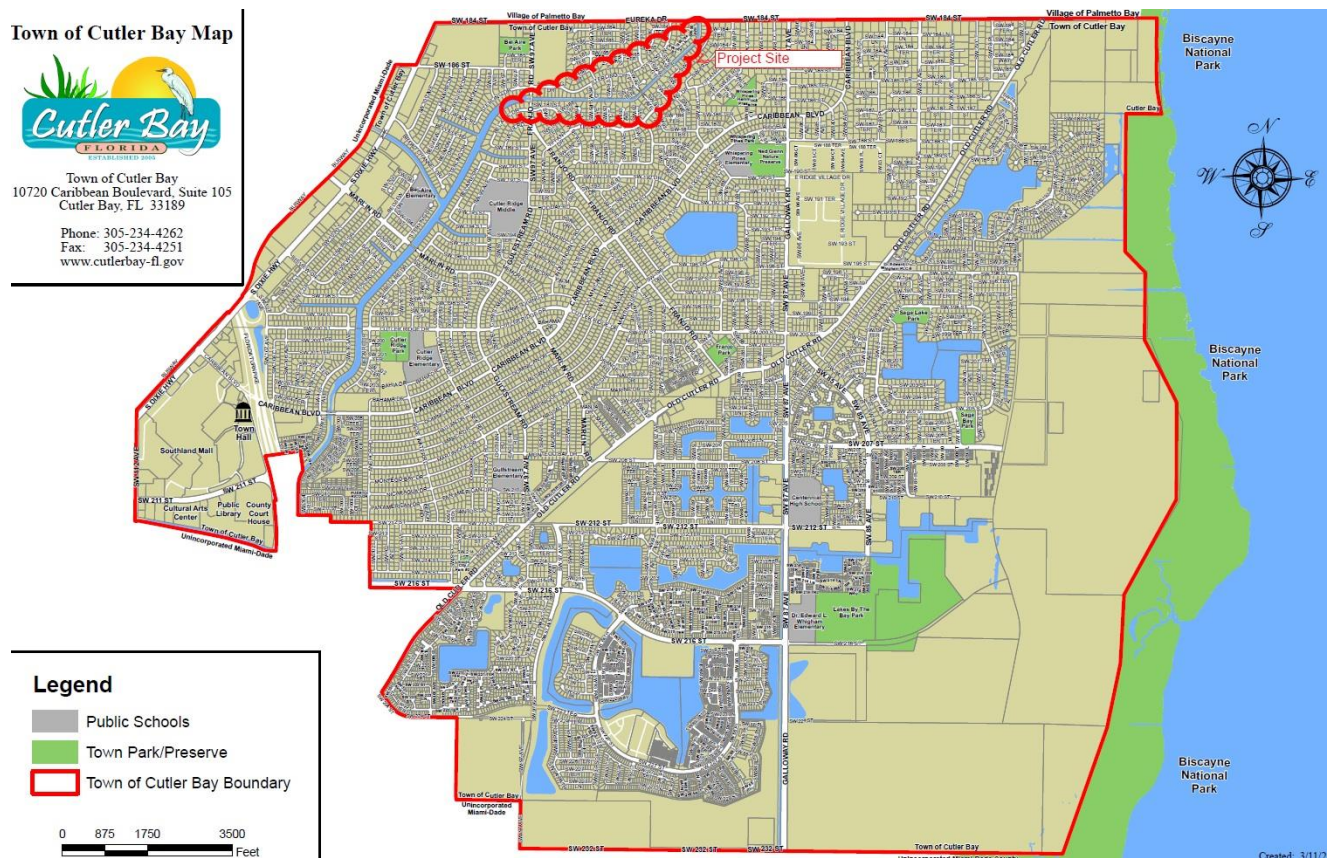
Project Benefits:

The Town is bordered on the West by Biscayne Bay National Park and the Biscayne Bay Wetlands. In our efforts to protect the Bay, the Town has implemented a series of Best Management Practices as it relates to stormwater treatment. This includes properly maintaining the Town's canals and making structural improvements that coincide with best management practices to ultimately improve the quality of water in Biscayne Bay.

Match Funding Available:

The Town currently has a 5 year Interlocal Agreement with Miami-Dade County for Stormwater Utility. This was formally adopted and implemented by the Town of Cutler Bay via Resolution No. 12-39 on August 15, 2012. This has allowed the Town to budget \$105,000 (30%) of the total estimated cost of \$350,000. This funding is obtained through “Stormwater Utility Fees” in accordance with the Town’s adopted Stormwater Master Plan. This fee is assessed on the utility bill of each residential or commercial property. This fee has not been increased for the purpose of funding this project.

Location Map

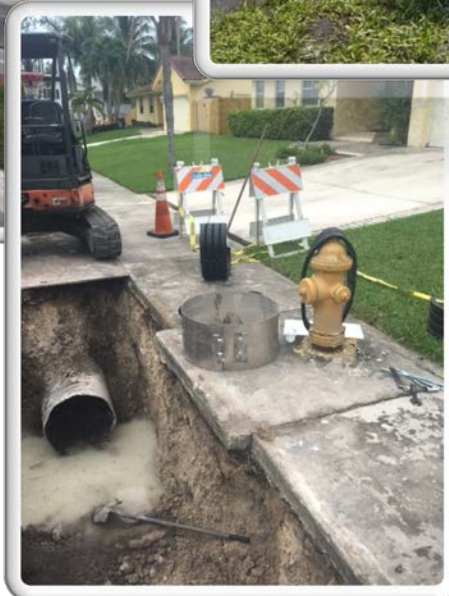
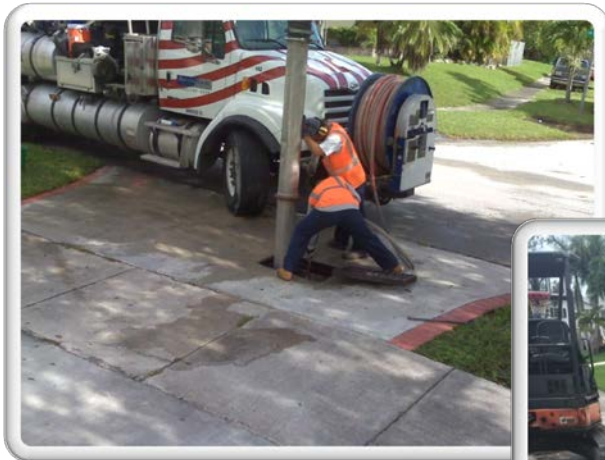




Local Mitigation Strategy

2019 Annual Report

Town of Cutler Bay



Prepared By:

Town of Cutler Bay

Public Works Department

Joint Participation Agreement and County Owned Roads Projects:

• SW 97 Ave Drainage Improvement Project.	Est. cost: \$ 291,494	Completed
• SW 216 St & SW 97 Ave Traffic Circle.	Est. cost :\$ 204,486	Completed
• Old Cutler Road JPA Project. (SW 87 Ave to SW 97 AVE)	Est. cost: \$ 7,524,319	Completed
• Caribbean Boulevard JPA Project & GAP 1 (C-100 Canal Bridge to SW 87 AVE)	Est. cost: \$ 11,173,054	Completed
• Caribbean Boulevard JPA Project & GAP 2 (Homestead Extension of Florida's Turnpike to C-100 Canal Bridge)	Est. cost: \$ 1,102,188	Completed
• Caribbean Boulevard Bridge Project	Est. cost: TBD	Construction/Procurement Stage (C100B canal)

Status: The Town continues to implement Stormwater Master Plan's recommended Capital Improvement Projects. To date, projects have been completed in the Cutler Ridge Elementary area, Saga Bay Section 1.3, Saga Bay Section 1.4, Saga Bay Section 1.5, Bel-Aire Section 5.2, Old Cutler Road Drainage and Roadway Improvement JPA Project, SW 97 Avenue Drainage Improvement Project, SW 216 St & SW 97 Avenue Traffic Circle (included Curb & Gutter & Swale restoration), Caribbean Boulevard JPA Project and GAP 1 C-100 Canal Bridge to SW 87 Ave, and SW 212 Street Drainage Improvement Project. Additionally, Town Staff is working with its lobbyists and grant writers to pursue possible State and/or Federal funding for the projects listed above.

Project 2: Canal Bank Erosion Protection

Design and construct erosion protection structures and bank stabilization projects along Town maintained canals which are vulnerable to bank erosion due to storm surge or inland flooding. This project includes the removal of undesirable debris, trees, predominantly Australian pines and ficus, located in close proximity to the canal bank. These trees are prone to falling during a severe windstorm or hurricane causing flow obstructions as well as damage to the canal bank resulting in increased erosion. We must also schedule regular maintenance of Town canals to restore flow. Estimated cost: \$350,000.



Status: Town Staff has coordinated with the South Florida Water Management District, to construct a canal stabilization project, south of the Caribbean Blvd Bridge. The Project is located along the C100B canal and the work will be performed by SFWMD crews.

Project 3: Flood Zone Data GIS System

This project will fund the creation of a GIS system to support several activities of the Town's National Flood Insurance Community Rating System program including mapping, annual outreach and notification, and the maintenance of all flood zone designations and other data for all real property folio numbers within the Town. In addition, the project will integrate town's data into Miami-Dade County's GIS system tailoring products generated for Town use. The additional information generated by this system will be essential for the preparation of detailed flood mitigation reports and allow users to track conditions by specific property location. This data will then be utilized to clearly identify and designate low lying areas, which will streamline flood prevention efforts when designing new systems and upgrading existing drainage systems. Estimated cost: \$140,000.