



# Local Mitigation Strategy

## 2023 Annual Report

### Town of Cutler Bay



### Background:

On August 20, 2008, via Resolution 08-52, the Town of Cutler Bay initially adopted the 2007 Miami-Dade County Local Mitigation Strategy. On September 16, 2020, via Resolution No. 20-52 the Town of Cutler Bay re-adopted the 2020 Miami-Dade County Local Mitigation Strategy. This document is a progress report on the status of the Miami-Dade County Local Mitigation Strategy, as required to maintain Floodplain Management Plan credit under the Community Rating System. In accordance with the requirements for Community Rating System credit, this memo is also being distributed to the local media and posted on the Town's website. The seven parts of Miami-Dade County's Local Mitigation Strategy are available on Miami-Dade County's website at the following address: <https://www.miamidade.gov/global/emergency/projects-that-protect.page>



The original Local Mitigation Strategy (LMS) was created in 1998 with funding from the State of Florida. During the development of the LMS, each municipality within the County designated a representative to the LMS Working Group. Other active participants in the working group include Miami-Dade County, State and Federal agencies, colleges, universities, and schools (including Miami-Dade County Public Schools), hospitals, not-for-profit organizations, and private sector companies. In 1999, the LMS Working Group voted to continue the LMS program with or without state funding. The LMS Working Group currently meets quarterly, and a representative of the Town of Cutler Bay staff attends these meetings.

In December 2000, the LMS Working Group agreed that the LMS master document would be updated and published each year on June 30 and December 31. The LMS Coordinator, who is a Miami-Dade County employee, works with the Miami-Dade Office of Emergency Management and Homeland Security and the LMS Steering Committee, to organize the updates by incorporating additions, deletions, and updates submitted by members of the LMS Working Group at least 30 days prior to each publication date. The latest version of the LMS was published in July 2021. It is organized into seven parts—the first two are included in this document and parts three to seven may be found through the link listed above.

### Part 1 of the Local Mitigation Strategy is entitled "The Strategy" and includes sections on the following:

- Guiding principles
- Mitigation goals and objectives
- Policies, ordinances, and programs affecting mitigation
- Effectiveness evaluation
- Analysis of existing policies, ordinances, and programs
- Conflict resolution procedures
- Hazard identification and vulnerability assessment
- Windstorm
- Flooding
- Other hazards
- Data sources
- Private sector interests
- Prioritizing mitigation initiatives
- Evaluation criteria and procedures to review and revise the LMS
- Miami-Dade County critical facilities inventory

[Part 2 of the Local Mitigation Strategy entitled “The Projects” is a compilation of countywide disaster mitigation initiatives and projects.](#)

Each participating member of the LMS Working Group provided a one or two paragraph description of each of their projects and initiatives along with a reasonable cost estimate. The Countywide Initiatives and Town of Cutler Bay sections are the two sections in Part 2 of the LMS that are most relevant to the Town. Part 3 of the LMS describes potential funding sources for LMS projects and initiatives, Part 4 consists of Appendices referenced by a number of supporting documents, Part 5 consists of Meeting Minutes, Part 6 consists of Completed Projects, and Part 7 consists of the National Flood Insurance Program and Community Rating System. Council members, staff and residents of the Town are encouraged to review the entire document located at the web address disclosed in the opening paragraph of this document.

The following is a summary of the projects listed in the Town of Cutler Bay section of Part 2 of the LMS and an assessment of the status of each initiative or project.

## The Town of Cutler Bay Projects

### Project 1: Drainage Improvements

The purpose of the Town of Cutler Bay Stormwater Master Plan was to identify opportunities to protect surface water quality and reduce flooding within the limits of the Town of Cutler Bay, Florida. The following twenty (20) priority drainage sub-basins were identified and studied as part of the Stormwater Master Plan along with two (2) Joint Participation Agreement (JPA) Projects and three (3) County owned road projects.



### Town Owned Roads:

LMS Project	Project Name	Cost/ Estimate	Status	Grant Award
	Cutler Ridge Elementary Area	\$770,000	Completed	\$200,000
	Saga Bay Section 1.3, 1.4, and 1.5 Sub-Basin	\$500,000	Completed	\$250,000
	Saga Bay Section 1.5 Sub-Basin	\$1,316,000	Completed	\$250,000
	Bel-Aire Section 5.2 Sub-Basin	\$450,000	Completed	\$210,000
	SW 212 Street Drainage Improvement	\$727,591	Completed	\$700,000
335	SW 87 Avenue Sub-Basin	\$2,300,000	Future Unfunded Project	
336	SW 97 Avenue Sub-Basin (North Portion)	\$585,000	Future Unfunded Project	
337	Bel-Aire Section 1.2 Sub-Basin	\$2,100,000	Planning to fund with ARPA	ARPA
338	Saga Bay Section 1.1 Sub-Basin	\$1,000,000	Planning to fund with ARPA	ARPA
339	Saga Bay Section 1.7 Sub-Basin	\$920,356	Completed	\$600,000
340	Pine Tree Manor Sub-Basin	\$894,000	Planning to fund with ARPA	ARPA
341	Cutler Ridge Section 5 Sub-Basin	\$4,093,000	Planning to fund with ARPA	ARPA
342	Point Royale Section 5 Sub-Basin (SW 100 Avenue Drainage Improvement)	\$843,087	Completed	\$374,000
343	Bel-Aire Section 1.1 Sub-Basin	\$2,700,000	Future Unfunded Project	
344	Saga Bay Section 1.8 Sub-Basin	\$900,000	Planning to fund with ARPA	ARPA
345	Saga Bay Section 1.6 Sub-Basin	\$700,000	Planning to fund with ARPA	ARPA
346	Saga Bay Section 1.2 Sub-Basin	\$494,294	Completed	\$165,000



LMS Project	Project Name	Cost/ Estimate	Status	Grant Award
347	Bel-Aire Section 6 Sub-Basin	\$1,444,000	Planning to fund with ARPA	ARPA
9442	Manta Drive Sub-Basin	\$488,600	Completed	\$344,260
10050	Cutler Ridge Section 3 Drainage Improvement	\$1,015,160	Completed	\$200,000
	Whispering Pines Swale Improvements	\$584,000	Completed	
	South Groves	\$1,025,000	Planning to fund with ARPA	ARPA
	Bel Aire Sec 19 & 22	\$2,070,000	Planning to fund with ARPA	ARPA
	Old Cutler Common UN 1 & 2	\$870,000	Planning to fund with ARPA	ARPA
	Lakes by the Bay Sec 7	\$640,000	Planning to fund with ARPA	ARPA
	Lakes by the Bay Sec 4	\$1,000,000	Planning to fund with ARPA	ARPA
	Saga View	\$280,000	Planning to fund with ARPA	ARPA
	Cutler Ridge Pines Drainage	\$3,057,000	Planning to fund with ARPA	ARPA
	SW 207 Street and SW 85 Avenue Corridors	\$3,428,000	Planning to fund with ARPA	ARPA

### **Joint Participation Agreement and County Owned Roads Projects:**

LMS Project	Project Name	Cost/ Estimate	Status
	SW 97 Ave Drainage Improvement Project	\$291,494	Completed
	SW 216 St & SW 97 Ave Traffic Circle	\$204,486	Completed
	Old Cutler Road JPA Project (SW 87 Ave to SW 97 AVE)	\$7,524,319	Completed
	Caribbean Boulevard JPA Project & GAP 1 (C-100 Canal Bridge to SW 87 AVE)	\$11,173,054	Completed
	Caribbean Boulevard JPA Project & GAP 2 (Homestead Extension of Florida's Turnpike to C-100 Canal Bridge)	\$1,102,188	Completed
	Caribbean Boulevard Bridge Project	\$1,456,086	Construction/Procurement Stage (C100B Canal)
	Franjo Road JPA Project (SW 184 ST to Old Cutler RD)	\$14,564,133	Procurement
	Marlin Road Complete Streets Project	\$14,235,723	Grants Awarded for Design

**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, Cutler Ridge Section 3, Saga Bay Section 1.2, Saga Bay Section 1.3, Saga Bay Section 1.4, Saga Bay Section 1.5, Saga Bay Section 1.7, Bel-Aire Section 5.2, Point Royal Section 5 Sub-Basin Manta Drive Sub-Basin, 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 including GAP 1 and Gap 2 from the Homestead Extension of the Florida Turnpike to SW 87 Ave, SW 212 Street Drainage Improvement Project, Whispering Pines Swale Improvements and Saga Bay Section 1.5 Sub-Basin. Additionally, Town Staff is working with its lobbyists and grant writers to pursue possible State and/or Federal funding for the projects listed above. The American Rescue Plan Act was passed into Law in March 2021 allowing municipalities to use Local Fiscal Recovery Funds to improve Stormwater Infrastructure Systems. The Town commenced the design of the majority of remaining Projects listed above with ARPA Funding.



### Project 2: Canal Bank Erosion Protection

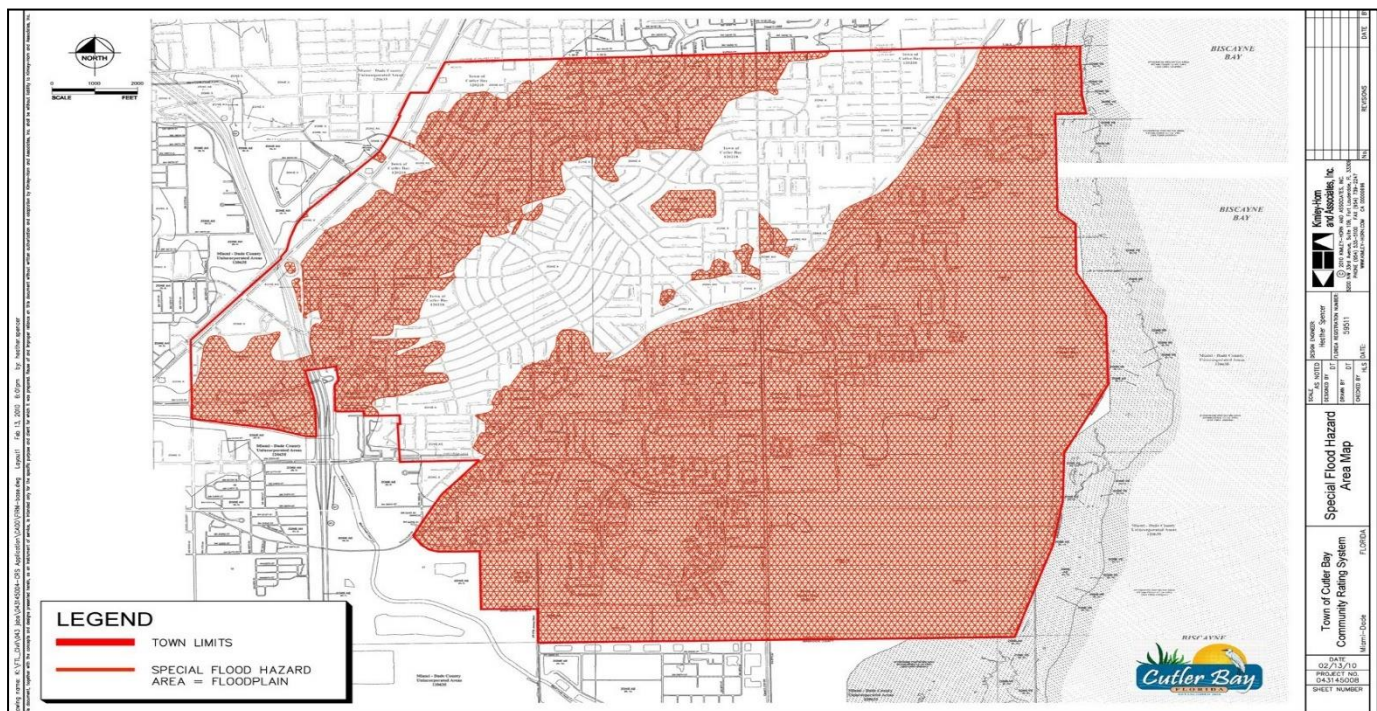
Design and construct erosion protection structures and bank stabilization projects along Town maintained canals which are vulnerable to bank erosion due to storm surge or inland flooding. This project includes the removal of undesirable debris, trees, predominantly Australian pines and ficus, located 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: \$1,500,000.

**Status:** Town Staff was awarded a Florida Department of Environmental Protection Grant in the amount of \$750,000 with a Town match of an additional \$750,000. Town staff is coordinating with the South Florida Water Management District (SFWMD), to construct a canal stabilization project on the C-100B Canal from Franjo Road to SW 184<sup>th</sup> Street. A Purchase Order has been issued for design in the amount of \$124,115.00 to Kimley-Horn and Associates.



### 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 the 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: \$63,000 for the Watershed Master Plan.



**Status:** Town Staff has coordinated with Miami-Dade County’s Stormwater Utility Department, the “transfer” of all the Flood Elevation Certificates that were previously issued by Miami-Dade. Additionally, the Town has entered the National Flood Insurance Program (NFIP) Community Rating System (CRS), in which a “Class 6 rating” was initially awarded by FEMA in May 2011. The Town was audited in April 2016 and was awarded a “Class 5 rating” effective May 2018. In addition, the Town achieved enough points for a “Class 4 rating”, but a Watershed Master Plan Study was a pre-requisite to achieve the “Class 4 rating”. Town staff negotiated a proposal and entered a Purchase Order to have its consultant, Wood Environment and Infrastructure Solutions, Inc. to develop and complete the Watershed Master Plan for adoption. On January 16, 2019, the Town Council adopted the Watershed Master Plan and Stormwater Manual. Effective October 1, 2019, the Town became a “Class 4 rating” in the National Flood Insurance Program (NFIP) and is saving Town residents 30% off flood insurance premiums. On November 17, 2021, the Town updated and adopted the Flood Mitigation Plan, Repetitive Loss Area Analysis Plan, and the Program for Public Information Plan. From October to November 2021, the Town was audited and was awarded enough points for a “Class 3 Rating” effective April 2023, which will save Town residents 35% off Flood Insurance Premiums.



### Project 4: Flood Insurance Research Project

This project will be part of the work required for the Community Rating System (CRS) and will involve the research of Town properties, which do not have flood insurance and the reasons, therefore. This effort would result in an action program designed to increase the number of properties covered by the flood insurance. The project will also review the validity of the Base Flood Elevation (BFE) as reflected on the Flood Insurance Rate Map (FIRM) and explore the possibilities of variable flood insurance rates that distinguish within the same flood zone between properties that are flood prone and vulnerable to flooding hazards and those which are not and/or have taken steps to correct the potential problem. Estimated cost: \$90,000.

**Status:** Town Staff continues to provide Public Outreach Materials through its kiosks, website, Homeowners Association Meetings, and during other Town sponsored events, (Ex. Chili Cook-off, Rib Ticklers Ball, Taste of the Bay, Town Council meetings). Additionally, Town Staff continues to inform homeowners on a daily basis who visit Town Hall for flood mitigation, elevation certificates, and flood determination letter inquiries. Furthermore, the Town implemented new activities to its public outreach campaign, including public outreach educational videos presented during Town Movie Night events, and an annual Earth Day awareness campaign, held at a local school, outreach program in which Town Staff are educators for a day. The Town is also including outreach material flyers in door hangers for all roadwork projects at affected neighborhoods, Repetitive Loss Properties, and an annual mailed flood brochure flyer to all Town residents.



### Project 5: Development of Floodplain Management Plan

The Town is interested in obtaining grant funds to hire a consultant to develop a floodplain management plan. Ordinance No. 16-02 created a Flood Damage Prevention Ordinance to enforce mitigation efforts throughout the Town with regards to flooding. An ordinance is not a plan however and the creation of a Floodplain Management Plan may benefit the community in a more positive “rating” within the Community Rating System, thereby allowing residents to obtain lower flood insurance premiums. The Floodplain Management Plan is a requirement of the National Flood Insurance Program (NFIP) if repetitive loss properties are greater than ten (10). The Town currently has thirty-four (34) repetitive loss properties. Estimated cost: \$120,000.

**Status:** The Town was awarded a State of Florida Pre-Disaster Mitigation Grant in the amount of \$50,000 to fund the development of a Floodplain Management Plan. The Town signed a contract on June 20, 2013, with AMEC Environmental & Infrastructure, Inc., to develop the Town’s Flood Mitigation Plan under RFQ No. 12-03 and Town Resolution No. 13-14. The Town completed and adopted the Flood Mitigation Plan on May 20, 2015, via Town Resolution No. 15-27. The Town updates projects on the Flood Mitigation Plan quarterly to present to the Flood Mitigation Committee. Town Staff has negotiated a proposal with Wood Environment and Infrastructure Solutions, Inc. (formerly known as AMEC Environmental & Infrastructure, Inc.) to update the Flood Mitigation Plan. On November 17, 2021, the Town updated and adopted the Flood Mitigation Plan, Repetitive Loss Area Analysis Plan, and the Program for Public Information Plan. Copies of the Flood Mitigation Plan quarterly reports may be found in the Town’s website [www.cutlerbay-fl.gov](http://www.cutlerbay-fl.gov).



### Project 6: Purchase Communications Emergency Equipment

During an emergency, it is critical that emergency personnel are able to communicate with one another. This project entails purchasing equipment, such as radios and additional cellular phones, to assist emergency personnel in responding to an emergency. The State of Florida is currently working to establish statewide frequencies that agencies would be able to use to speak with each other when responding to calls for assistance. During the four (4) hurricanes that struck Florida in 2005, however, radios and cell phones were rendered inoperable in some areas after the initial strikes. The emergency radios can operate for a short distance should the antenna be damaged or fail following an event. Estimated cost: \$65,000.

**Status:** The Town has purchased an additional two (2) Emergency Satellite phones thereby, increasing the total available satellite phones to four (4). These phones will be operated by “key” staff during any type of event. Town Staff continually test the phones on a biannual basis to make sure they are operational. In addition, the Town has executed a new Emergency Debris Road Clearing Services Contract under RFP 19-09, with T.F.R. Enterprises, Inc. for clearance of debris to the side of the road and other Debris Removal Services. The contract includes additional satellite phones as needed for use by Town Staff, to coordinate operations during failure of other communication systems.

### Project 7: Reduction of Floating Debris

This proposal will demonstrate the usefulness of low-cost best management practice (BMP) devices in reducing the volume of floating debris that is being washed into Cutler Bay’s canals. This floating debris eventually ends up in the federally protected marine sanctuary of Biscayne Bay. The objective is to start a remedial program in Cutler Bay’s urban drainage basin by installing or retrofitting the existing curb inlets with prefabricated curb grates and leaf collecting baskets. These BMP are expected to reduce the volume of floating trash and debris by as much as twenty percent (20%) and also prevent the clogging of the Town stormwater system. Estimated cost: \$60,000.

**Status:** Town Staff continues to monitor the area finger channels, canals, and ditches which are maintained by Miami-Dade County Public Works Department, through an Inter-Local Agreement with the Town. The Inter-Local Agreement was renewed with the County for another five (5) years starting in 2022. The Town also uses its own Contractor to perform additional maintenance cycles, if necessary, between County scheduled cycles. The Town also coordinates with SFWMD for the maintenance of portions of the C1-N and C100B Canals that are within Town limits. Additionally, Town Staff performs inspections of “key” points throughout the canal system to ensure no floating debris is impeding water flow. When debris is easily accessible, Town’s Public Works Staff removes the floating debris. Additionally, Town Public Works



Staff and the Town's landscape contractor performs daily roadway inspections and remove any roadway debris that can end up in the area canals. On May 11, 2019, the Town sponsored the "Cutler Bay Goes Green" event, where Cutler Bay Senior High School students, under the supervision of Town Staff, cleaned up the SW 87<sup>th</sup> Avenue Ditch between 212<sup>th</sup> Street and 232<sup>nd</sup> Street. On November 4, 2019, the Town sponsored a subsequent event and on January 14, 2023, the Town sponsored another subsequent event. The Town continues to partner with organizations, high schools and residents to host more events annually.

### Project 8: Canal Cleaning and Shaping – Town-wide

Dredging of the approximately eleven (11) miles of inland canals located with the Town of Cutler Bay would restore depth and bottom contour. This restoration would directly impact the ability of the canal to hold tidal flooding and minimize flooding of surrounding properties during significant weather events. This dredging project would require funds for hydrographic surveys and bottom contours to determine the scope of work and cost. Dredging requires a State, ACE, and Department of Environmental Resources Management (DERM) permit. A hydrographic survey will be required along with soil sampling of the proposed dredged materials. Mitigation work may be required to compensate for damaged ecosystems and will be determined by DERM prior to dredging. Estimated cost: \$750,000.



**Status:** The Town is coordinating with the South Florida Water Management District, to complete a "dredging" project along the C100B Canal. The project will consist of SFWMD crews "dredging" the canal from the Caribbean Blvd Bridge to the control structure, located near Black Point Marina. Additionally, the Town in coordination with the Miami-Dade County Public Works Department has completed the design and planning phase of the new Caribbean Boulevard Bridge Widening Project. The project is currently under construction by a selected Miami-Dade County contractor and is scheduled to be completed in the fall of 2024.

### Project 9: Portable Traffic Light Signals

During power outages, the traffic lights are inoperable, causing a potential hazard. Portable traffic signals will provide the safety that is needed for traffic control. The Town anticipates that it will need ten (10) portable traffic signals to adequately handle an emergency situation. Estimated cost: \$140,000.

**Status:** The Town has completed the installation of twelve (12) emergency generator transfer switches, at "key" intersections throughout the Town.

### Project 10: Town Hall/EOC Installation of Transfer Switch for Emergency Power

This project will provide for the installation of a transfer switch to Town Hall. The facility was constructed to withstand category four (4) hurricane winds, as a result this facility will be utilized as a location for the Town to distribute and administer both force account labor as well as volunteers after an event. This is a mitigation project that ensures the continued operation of critical Town facilities and the appropriate levels of service for Town residents during and after a disaster event. Estimated cost: \$394,000.

**Status:** The project was completed on time and on budget in the Fall of 2013.





### Project 11: Acquisition of Emergency Generators

This project would involve the acquisition of power generators to support critical facilities throughout the Town. This is a mitigation project that ensures the continued operation of critical Town facilities and the appropriate levels of service for Town residents during and after a disaster event. These generators would supply the following facilities:

- Town Hall (Operations Center) – One (1) Emergency generator. Includes a power back-up Emergency generator to supply power for the Town Center Building which includes the Police Department offices on second floor. (Completed Fall of 2013)
- Parks and Recreation – One (1) generator. Supplies power to three (3) parks that will serve as distribution centers.
- Public Works – twelve (12) generators. Supplies power for the operation of traffic control signals during power outage.

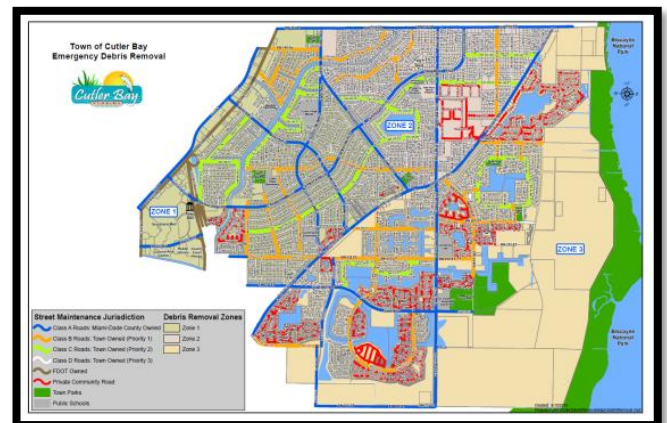
Estimated cost: \$394,000.



**Status:** Town Hall’s new Emergency Generator upgrades were completed in the Fall of 2013, which serves the entire building including the Police Department on the second floor. The twelve (12) generators for Public Works to provide operation of traffic control signals during power outages have been purchased and are in storage. The Parks & Recreation Transfer Switch installation project was completed in 2009. In addition, the Town has executed a new Emergency Debris Road Clearing Services Contract under RFP 19-09, with T.F.R. Enterprises, Inc. for clearance of debris to the side of the road and other Debris Removal Services. The contract includes the rental of generators as needed ranging from 5 to 120 KW, as well as portable trailer mounted air conditioners (5 and 12 tons) and portable server coolers (2 and 3 tons).

### Project 12: Debris Removal

The Town presently maintains a list of contractors that have agreed to provide debris removal services following a disaster. The Town would develop a Comprehensive Debris Clearance (CDC) plan that would list the names and phone numbers of debris removal contractors, identify potential debris storage sites, removal methods, and provide for special programs. Contracts would be negotiated in advance and monetary damages would be due to the Town if the contractor fails to perform. The study also would analyze how the Town could best coordinate debris removal activities with related post-disaster service performed by Miami-Dade County. The Town welcomes debris removal assistance along federal, state and county roadways, but recognizes that it will need to provide its own service along most of the smaller, local roadways within the Town. Estimated cost: \$10,000.



**Status:** The Town’s solid waste removal services are provided by Miami-Dade Solid Waste Department. Town Staff on a quarterly basis participates in a Municipal Quarterly Meeting with Miami-Dade Solid Waste Staff, to review emergency debris removal services, in the event of a major storm. In addition, the Town has executed a new Emergency Debris Road Clearing Services Contract under RFP 19-09, with T.F.R. Enterprises, Inc. for clearance of debris to the side of the road and other Debris Removal Services. Miami-Dade County Solid Waste Department will continue to remove the debris that has been collected and pushed to the side of the road. This plan was tested in the aftermath of Hurricane Irma and worked flawlessly.

### [Project 13: Develop a Debris Plan](#)

Develop and implement Town-wide debris removal plan using G.P.S. for data acquisition and G.I.S. for mapping. The Town's proposed Debris Management Plan will help coordinate the efforts of the Miami-Dade County's Coordinated Debris Clearance (CDC) Program. Estimated cost: \$80,000.

**Status:** The Town's solid waste removal services are provided by Miami -Dade Solid Waste Department. Town Staff on a quarterly basis participates in a Municipal Quarterly Meeting with Miami-Dade Solid Waste Staff, to review emergency debris removal services, in an event of a major storm. In addition, the Town has executed a new Emergency Debris Road Clearing Services Contract under RFP 19-09, with T.F.R. Enterprises, Inc. for clearance of debris to the side of the road and other Debris Removal Services. Miami-Dade County Solid Waste Department will continue to remove the debris that has been collected and pushed to the side of the road. This plan was tested in the aftermath of Hurricane Irma and worked flawlessly.



### [Project 14: Storm Water Outfalls](#)

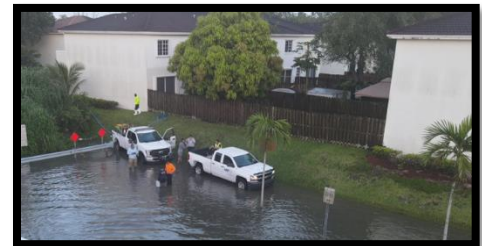
Clean and line positive outfalls to prevent future blockage caused by build-up of bivalve organisms throughout the Town's eleven (11) miles of canals. Estimated cost: \$500,000.

**Status:** Town's storm drain contractor, as part of an annual contract, continues to clean all positive outfall structure and service lines. This service is funded through the fees collected from the Town's Stormwater Utility Fund and as part of the Town's NPDES permit activities.

### [Project 15: Municipal AM Emergency Radio Broadcast Station](#)

Allow issuing of timely information 24/7. Has capacity to broadcast and operate without grid power for two (2) days, store repeat messages and ability to allow instant timely broadcast messages. Estimated cost: \$85,000.

**Status:** Town Staff continues pursuing alternate Grant funding for this project. Additionally, the Town has partnered with local amateur H.A.M. radio operator professionals to provide emergency communications in the event of a major storm. The Town has one staff member that is a H.A.M. radio certified operator.



### [Project 16: Cutler Bay Waterway Conveyance Improvements](#)

Remove sediments from the Cutler Bay waterway that have built up over time which are causing bank flooding due to the major reduction in channel depth and cross section, as well as causing impassable locations to boat traffic. Preliminary tests show sediment as clean. Estimated cost: \$270,000.

**Status:** The Town is coordinating with the South Florida Water Management District, to complete a "dredging" project along the C100B Canal. The project will consist of SFWMD crews "dredging" the canal from the Caribbean Boulevard Bridge to the control structure, located near Black Point Marina. Additionally, the Town in coordination with the Miami-Dade County Public Works Department has completed the design and planning phase of the new Caribbean Boulevard Bridge Widening Project. The project is currently under construction by a selected Miami-Dade County contractor and is scheduled to be completed in the summer of 2024.

### [Project 17: Removal of Australian Pines and Other Exotics](#)

Debris removal after a storm is an expensive and time-consuming process. Fallen trees can delay the re-entry process by blocking access to roads and properties. This project would create a permanent ongoing tree removal program. It

would ensure removal of exotic trees on public rights-of-way. The exotics would be replaced by appropriate native trees that will enhance the Town's tree canopy. Estimated cost: \$85,000.

**Status:** Town's Landscape Maintenance contractor, as part of the annual contract, continues to remove any "Exotic" plant located along the Town owned right-of-way and/or swales. This process is accomplished through a "Work Order" basis, issued by the Public Works Department. Additionally, the Town has planted to date four thousand one hundred and five (4,105) native trees throughout the Town since incorporation.

### Project 18: Preventive Pruning of Existing Town Tree Inventory

This project's purpose is twofold: to minimize storm generated debris and protect infra-structure from tree related storm damage. Studies show that by practicing proper structural pruning methods such as appropriate crown reduction and canopy thinning, tree and limb failures are reduced during storm events. Therefore, properly pruned trees produce less debris and minimize infrastructure damage. This project proposes to create a program that provides regularly scheduled pruning of trees planted by the Town within the right of way in order to provide structural integrity and thereby mitigate and clean-up costs and property damage caused by weather events. The department would utilize local contractor services to accomplish project goals. All pruning performed will conform to the International Society of Arboriculture and ANSI A-300 standards. Estimated cost: \$285,000.



**Status:** Town's Landscape Maintenance contractor, as part of the annual contract, continues to perform corrective pruning of trees located along the Town owned right-of-way and/or swales. This process is accomplished through a "Work Order" basis, issued by the Public Works Department. In 2014 and 2015, the Town completed a beautification and corrective pruning project utilizing two (2) \$10,000 grants awarded by the National Urban and Community Forestry. Additionally, the Town was awarded a \$7,500 grant from the same agency for FY 2015-Legislative Appropriation. The Town will match the Forestry Grant with an additional \$7,500. This grant will further help continue our beautification, corrective pruning, and education of proper tree care and trimming to Town residents. Under Resolution No. 16-52, the Town issued a Request for Proposal for Town-wide Tree Trimming Maintenance Services in FY 2016-2017. The Town has executed an agreement under RFP No. 17-02 with VisualScape, Inc. to perform Town-wide Tree Trimming Maintenance Services. Under Resolution No. 20-33, the Town issued a new Request for Proposal for Town-Wide Tree Trimming Maintenance Services in FY 2019-2020. The Town has executed an agreement under RFP 20-05 with SFM Services, Inc. to perform Town-wide tree trimming maintenance services. After Hurricane Irma, the Town's Public Works Department issued Purchase Order No. 1588 for the corrective pruning and uplifting of dangerous tree hangers in the Town's right-of-ways. The Town Manager also promotes continuous education, training, and certification of the Town Staff. The Town's Public Works Director is a certified Arborist with the International Society of Arboriculture. Currently there is one (1) Town Staff preparing to take the Certified Arborist Exam and one (1) Town Staff preparing to take the Landscape Inspector's Association of Florida Exam.

### Project 19: Emergency Portable Air Conditioner Units

Purchase emergency portable air conditioner units for computer rooms and office areas for all essential operating areas. Town Hall serves as the Town's Emergency Operations Center (EOC), maintains computer systems and services. The portable air conditioner units would prevent these systems and services from damage and malfunction. Four (4) units are necessary. Estimated cost: \$120,000.

**Status:** Town continues to seek grant funds for this project. Additionally, the Town applied for a 2011 Pre-Disaster Mitigation Grant seeking funding to provide an emergency HVAC system for the first two (2) floors in the Town Hall building. Furthermore, the Town has executed a new Emergency Debris Road Clearing Services Contract under RFP

19-09, with T.F.R. Enterprises, Inc. for clearance of debris to the side of the road and other Debris Removal Services. The contract includes the rental of generators as needed ranging from 5 to 120 KW, as well as portable trailer mounted air conditioners (5 and 12 tons) and portable server coolers (2 and 3 tons).

### Project 20: Satellite Phones

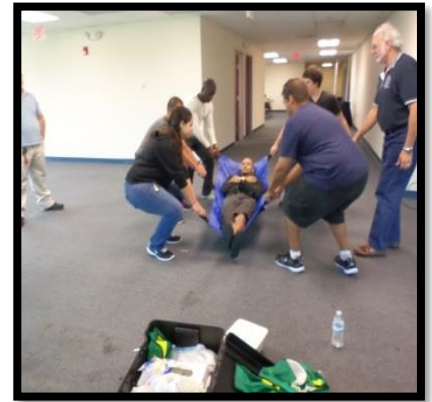
After Hurricane Andrew, communications were virtually non-existent. With satellite phones distributed to our field crews as well as regional command centers, better and faster recovery after a disaster can occur. Phones would be made available to our first responders' emergency personnel. Estimated cost: \$55,000.

**Status:** The Town has purchased an additional two (2) Emergency Satellite phones thereby increasing the total available satellite phones to four (4). These phones will be operated by "key" staff during any type of event. Town Staff continually test the phones on a biannual basis to make sure they are operational. In addition, the Town has executed a new Emergency Debris Road Clearing Services Contract under RFP 19-09, with T.F.R. Enterprises, Inc. for clearance of debris to the side of the road and other Debris Removal Services. The contract includes additional satellite phones as needed for use by Town Staff, to coordinate operations during failure of other communication systems.

### Project 21: Community Emergency Response Teams (CERT)

This project's goal is to establish a CERT for the Town. When an emergency or disaster occurs at any time and any place in the Town, trained CERT volunteers will be ready and able to respond to save lives and protect property. CERT members will be able to do the greatest good for the greatest number after a disaster, while protecting them from becoming victims. This program will include but not be limited to basic medical treatment procedures, scene safety, securing utilities, and other hazards, and some rescue operations. Estimated cost: \$40,000.

**Status:** As of October 2019, fourteen (14) Town Staff successfully completed the CERT training course and field exercise. The Town will continue to send uncertified Town Staff to future CERT trainings.



### Project 22: Purchase Computerized Equipment Storage for Vital Public Records

The Town of Cutler Bay was incorporated in 2005. Adequate daily back-up and off-site storage of vital public records is a main priority in the Town. Planning for storage and back-up of vital records is well timed and the Town's computer systems are periodically being upgraded. Estimated cost: \$75,000.

**Status:** The Town of Cutler Bay completed IT Modernization to the Town's servers, data storage and backup systems in 2018. The Town of Cutler Bay was migrated onto the hosted Miami-Dade County Enterprise VMware virtual server and data backup environment at the Miami-Dade County, Main Data Center. The new server virtualization and storage services provide secure, high availability, and fault tolerant redundancy that eliminate any single point of hardware failure. The Town data is automatically backed up daily to provide Continuity of Operations Plan for the Town of Cutler Bay in the event CBTC is affected by nature or another emergency event. The Town's critical data and servers are hosted at the secure Miami-Dade County Main Data Center facility that is CJIS certified and CAT5 hurricane rated.



### Project 23: Portable Traffic Control Signs

Effective and efficient communication is vital to allow for the rapid evacuation of citizens prior to the impact of a hurricane in Cutler Bay. With a residential population of 45,101 people and a commuter population that at least doubles the affected population during the work week, traffic jams are a certainty. Portable traffic control signs that provide scrolling text messages would allow traffic to be directed to alternative routes and to provide other vital information to motorists. The portable signs have other uses besides assisting in evacuations: they can be used to display information during events such as fire/rescue emergencies, hazardous material spills, special events and

terrorist incidents. These signs display a test message that is easily programmed into the unit and can be moved using most any Town vehicle with a trailer hitch. The Town of Cutler Bay would purchase four (4) of these units at a cost of about \$50,000 each, plus additional trailer hitches for Town vehicles. Estimated cost: \$200,000.

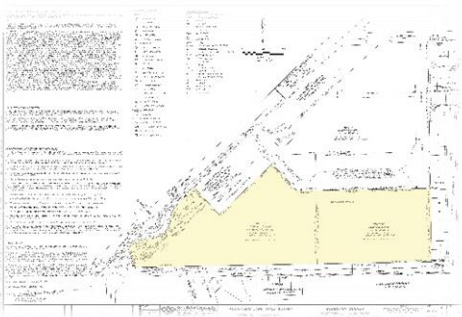
**Status:** Town Staff continues to pursue grant funds to fund this Project.

### Project 24: Design & Construction of a New Town Hall/EOC Facility

The current Town Hall was designed and constructed to withstand only Category Four (4) Hurricane Winds. During Hurricane Andrew, the building suffered extensive damage to its facades. This project will enable the Town to design and construct a State-of-the-Art Town Hall Facility, capable of withstanding the most catastrophic Category Five (5) Hurricane Force Winds. The Facility will also operate as the Town's Emergency Operation Center.



**Status:** On July 17, 2019, Ordinance No. 19-12 was passed and adopted on Second Reading approving the purchase of property from GCF Investments Inc. consisting of approximately 16 acres, and generally located North of S.W. 212 Street, South of Marlin Drive, East of Old Cutler Road, and West of S.W. 92<sup>nd</sup> Place. The Town is currently in the process of cleaning up the site. The Town teamed up with the University of Miami School of Architecture to come up with conceptual designs for a new state of the art Town Hall building and Parks and Recreation Center. The Town issued RFQ #22-05 for design and permitting of the project. The Town selected Saltz Michelson Architects after an extensive review process for the design.



### Project 25: Undergrounding of Utilities

Undergrounding is the process of building electric infrastructure, such as electric distribution lines and other electrical facilities, in trenches underground. Generally, underground lines are in trenches with other utilities' infrastructure, such as gas pipelines or communications lines. Electric transformers and other equipment are installed on concrete pads above ground or in subsurface concrete enclosures underground. The benefit of underground infrastructure is to provide improved reliability during storms. Additional benefits include aesthetic improvement in historic or scenic areas and street-side safety in highly congested areas. The Town proposes to implement this project in phases. During the first phase starting in FY2019-20, the Town will research the feasibility of undergrounding the Town's power grid. This will include collecting data on the history of power outages in the Town due to overhead utilities and natural disasters and prioritizing the areas with the greatest need for disaster mitigation. Recent estimates state that conversion of overhead utilities to underground utilities is \$3 Million per mile.

**Status:** This project is in the pre-planning phase.





### Sources

The Local Mitigation Strategy for Miami-Dade County and its Municipalities, Departments, and Private Sector Partners published by the Local Mitigation Strategy Working Group dated July 2021.

Town of Cutler Bay Staff interviews.