



Flood Mitigation Project List Status

Second Quarter Report

2024



Floodplain Mitigation Plan

Town of Cutler Bay, FL



May 2015
Adopted via Resolution #15-27



- Funded by the Flood Mitigation Assistance Grant in the amount of \$49,400.
- Town “In-Kind” Contribution-Staff Time
- Public Meetings held:
 - 10-24-2013
 - 12-11-2013
 - 1-16-2014
 - 2-20-2014
 - 4-22-2014
 - 7-17-2014
 - 9-25-2014
 - 3-31-2015
 - 6-25-2015
- Adopted via Town Resolution #15-27, May 20, 2015
- **Revised Flood Mitigation Plan adopted via Town Resolution No. 21-77, Nov 17, 2021.**

Project List

- Project #1- Cleanout storm drains on a biennial basis.
- Project #2 - Improve drainage along the C-100 canal through a dredging project.
- Project #3- Continue implementation of drainage system maintenance on all surface water channels, canals and ditches.
- Project #4- Promote an Enviro-Scape model to elementary school students.
- Project #5- Work with local, state and federal partners to target repetitive loss properties for acquisition or elevation.
- Project #6- Promote retrofitting techniques for flood-proofing of residential structures.
- Project #7- Promote the purchase of flood insurance to residents and businesses.
- Project #8- Protect natural floodplain functions within the Town including the Cutler Wetlands, as defined by SFWMD.
- Project #9- Increase awareness of the flood hazard through development of a program for public information.
- Project #10- Work with Miami-Dade County Emergency Management on identifying vulnerable populations for evacuations.
- Project #11- Work with Miami-Dade County Emergency Management and state and federal governments to protect vulnerable critical facilities.
- Project #12- Complete the Cutler Bay Wetlands Restoration Project Plan to prevent flood damages and restore mitigation property to a world-class birding sanctuary. Share information about this project with stakeholders and the public.
- Project #13- Acquire or redevelop parcels for recreational open space and natural and beneficial functions.
- Project #14- Educate repetitive loss property owners on ways to protect their building from flood damage.
- Project #15- Identify segments of canals where erosion is causing banks to collapse and prepare a prioritized list for improvements.
- Project #16- SW 82 Avenue Roadway Improvements Project to improve drainage along a flood prone Town streets or neighborhoods.
- Project #17- Town-wide Water Quality Improvement Project
- Project #18 – Whispering Pines Park Pervious Turf Block and Drainage Improvements Project- Completed
- Project #19 – Cutler Bay Comprehensive Vulnerability Assessment and Adaptation Plan

Report Updates in “RED”

Project # 1

Cleanout storm drains on a biennial basis

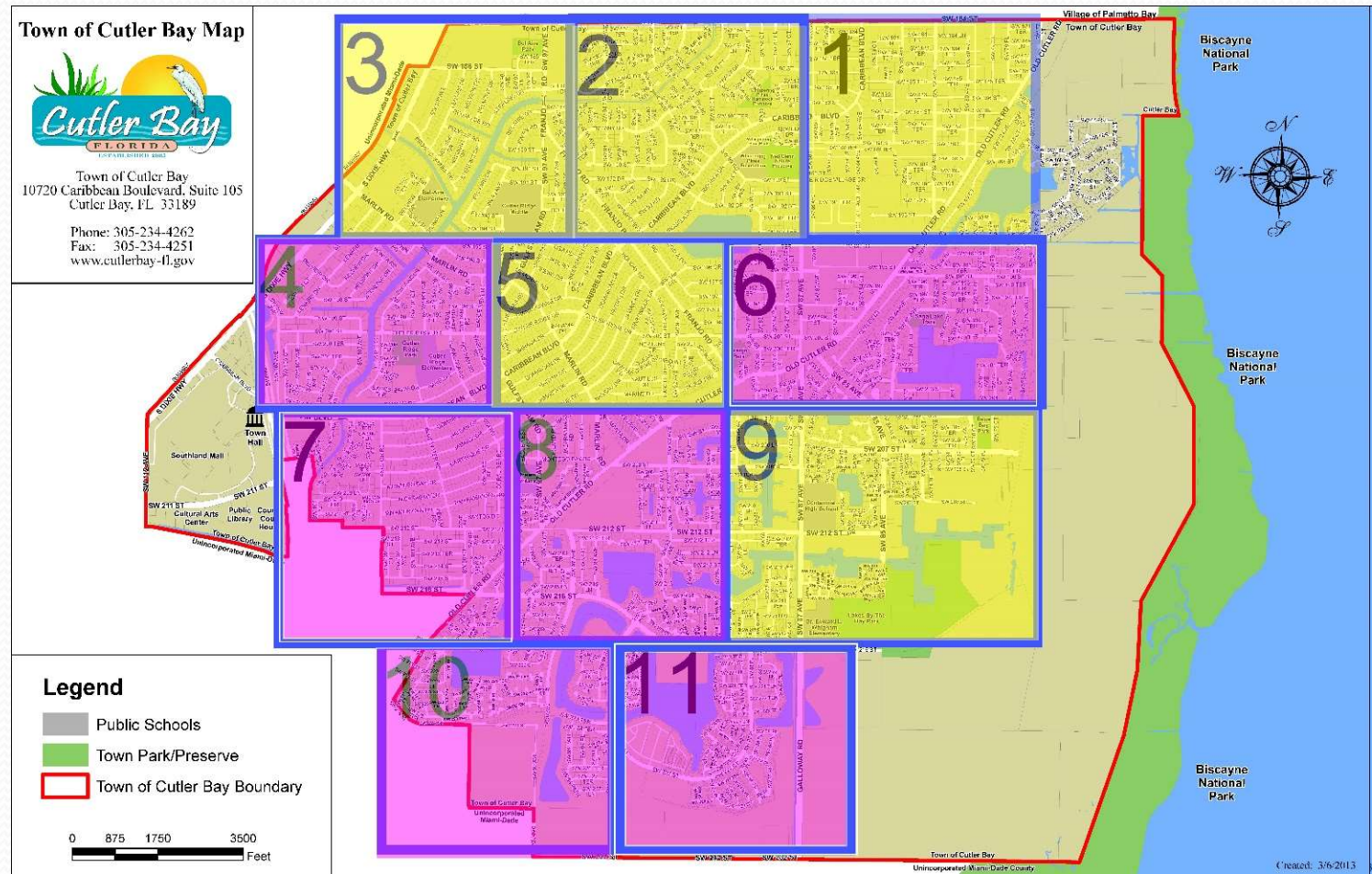
- ***Project Description:*** Ensure that storm drains are cleaned on a regular and consistent basis in order to maintain adequate stormwater drainage as they were designed.
- ***Project Benefits:*** Reduces potential losses to buildings which could be damaged from catch basins not draining properly.
- ***Status:*** The Town continues to budget \$300,000 from the Stormwater Utility Fund for storm drain cleaning.

Funding source: Stormwater Utility Fund.

Project # 1

Cleanout storm drains on a biennial basis

- Yellow Highlight = Cleaning Performed in Fiscal Year 2023 – 2024
- Pink Highlight = Cleaning scheduled for Fiscal Year 2022-2023



Project #2

Improve drainage along the SFWMD C-100 canal through a dredging project

- ***Project Description:*** Mitigate/reduce flooding in the sub-basin that currently outfalls to the canal by dredging the C-100 canal.
- ***Project Benefits:*** Reduces potential losses to buildings which could be damaged from inadequate drainage within the canal.
- ***Status:*** Caribbean Bridge Replacement and adjacent dredging design have been completed. Once the bridge replacement and adjacent dredging have been completed, the SFWMD has verbally committed to dredge canal from Caribbean Bridge to structure S21, near Black Point Marina. Estimated Cost \$1,456,08.06 **Currently Miami-Dade County has terminated the current contractor. The County will work diligently to rebid the project and get it completed.**

Project #2

Improve drainage along the SFWMD C-100 canal through a dredging project

Project Overview

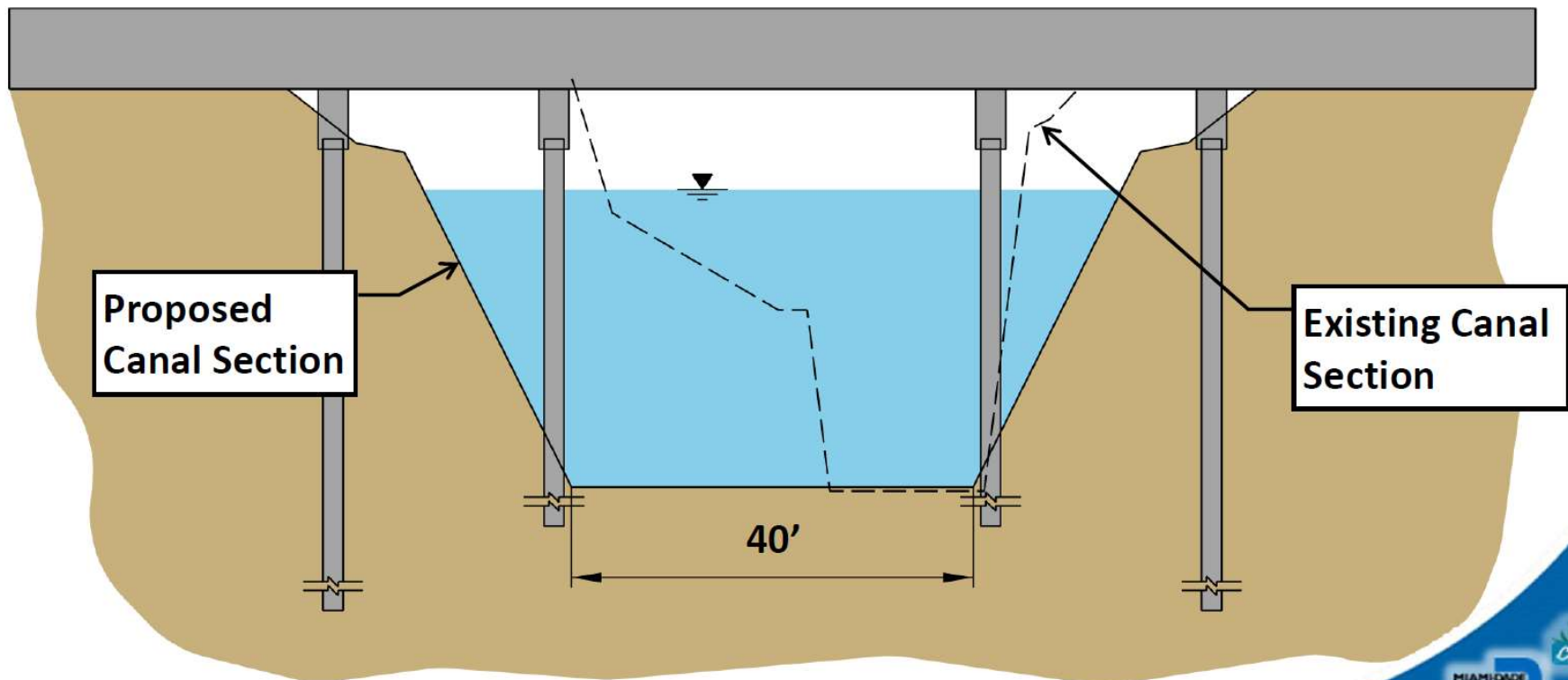


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Project #2

Improve drainage along the SFWMD C-100 canal through a dredging project

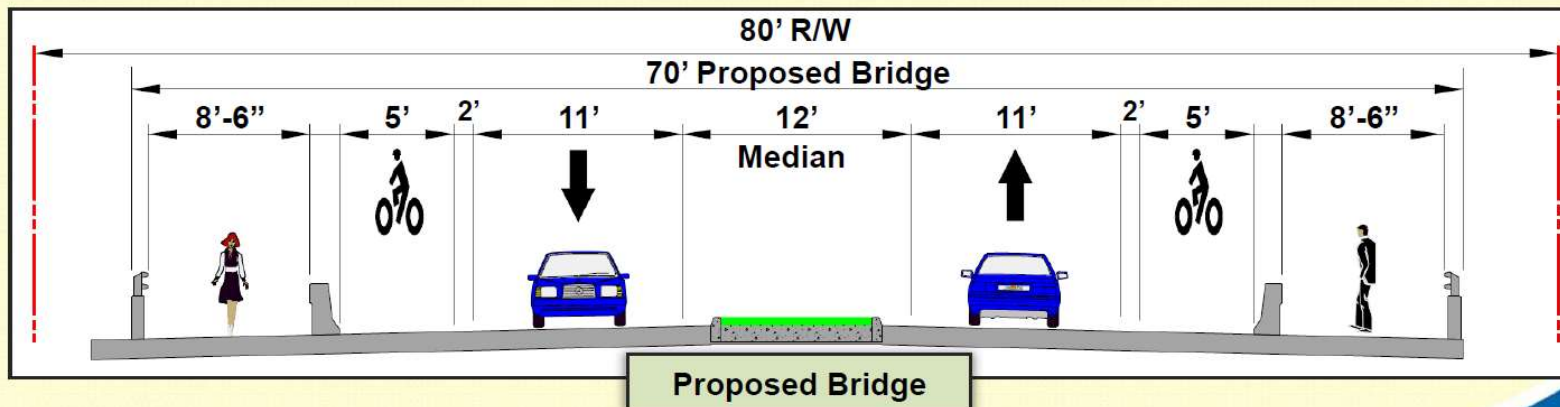
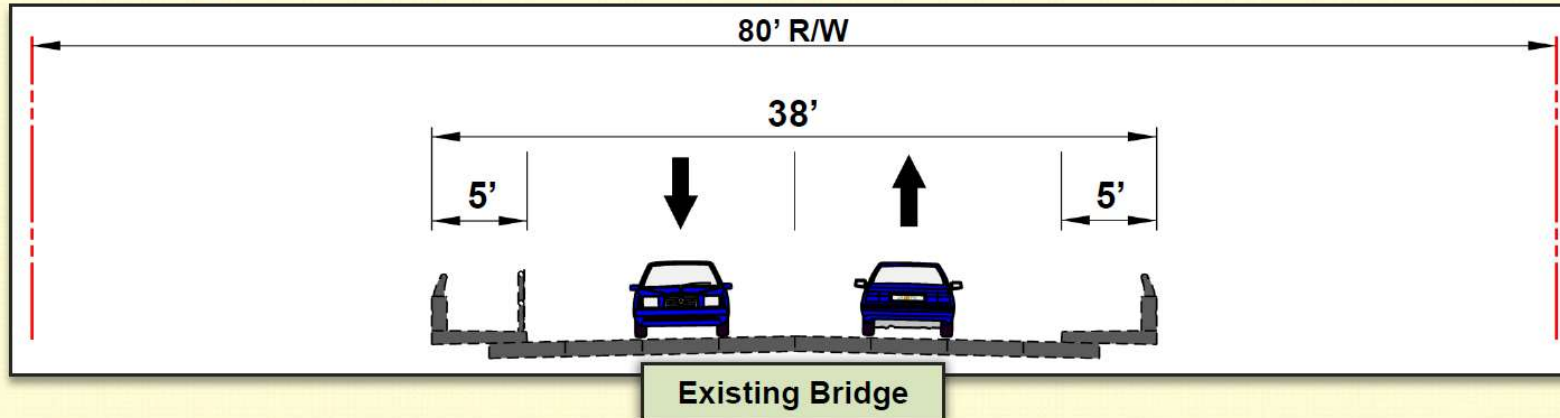
Proposed Canal Improvements



Project #2

Improve drainage along the SFWMD C-100 canal through a dredging project

Bridge Typical Section



Project #3

Continue implementation of drainage system maintenance on all surface water channels, canals and ditches

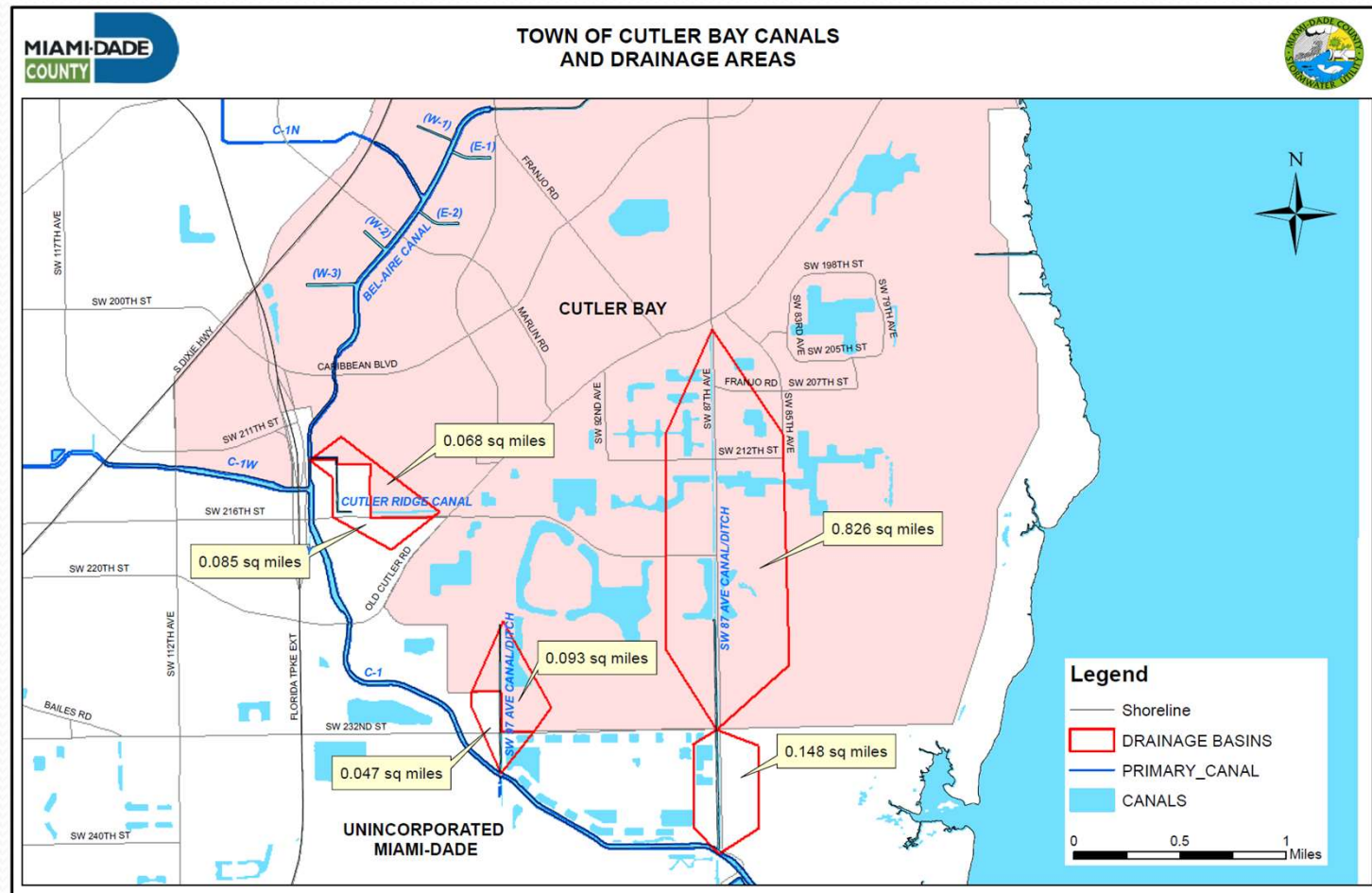
- ***Project Description:*** Maintain all surface water channels, canals and ditches in order to ensure the proper storage, disposal and water quality treatment of runoff.
- ***Project Benefits:*** Reduces potential losses to buildings which could be damaged from channel, canals and ditches not operating properly.
- ***Status:*** Interlocal Agreement with Miami-Dade County was executed October 1, 2012. On September 25, 2017, the Town renewed the Interlocal Agreement which will commence on October 1, 2017 and ends on September 30, 2022. Project maintenance funding to be continued in the FY 23-24 Operating Budget. **A new inter-local agreement was adopted by the Town Council via Resolution No. 22-31, and was approved by the BCC for another 5 years.**

Project #3

Continue implementation of drainage system maintenance on all surface water channels, canals and ditches

Maintenance cost per year

- FY 11-12: \$68,694
- FY 12-13: \$78,698
- FY 13-14: \$66,254
- FY 14-15: \$53,218
- FY 15-16: \$64,209
- FY 16-17: \$63,489
- FY 17-18: \$87,617
- FY 18-19: \$62,482
- FY 19-20: \$60,963
- FY 20-21: \$72,351
- FY 21-22: \$116,070
- FY 22-23: \$111,923



Project #3

Continue implementation of drainage system maintenance on all surface water channels, canals and ditches



Project #4

Promote an Enviro-Scape model to elementary school students

- ***Project Description:*** Help elementary school students to better understand the sources of flooding and prevention of water pollution.
- ***Project Benefits:*** Educates children on how to avoid flood damage and the benefits of reduced storm water pollution.
- ***Status:*** The program took place at Whispering Pines Elementary on May 1st, 2024. **The Town will be coordinating with another elementary school for the following fiscal year.**

Project #4



PROCLAMATION

- WHEREAS,** trees are essential to life by reducing heating and cooling costs, cleaning and purifying the air, providing shelter and food for wildlife, and by planting and taking care of our trees, an invaluable contribution is being made to the lives of future generations; and
- WHEREAS,** trees in our Town increase property values, enhance the economic vitality of business areas, and beautify our community; and
- WHEREAS,** the Town has received the prestigious "Tree City USA" Designation from the Arbor Foundation every year since 2005; and
- WHEREAS,** the Town has received the esteemed Arbor Foundation's "Growth Award" every year since 2012 for its successful implementation of Town-wide Canopy Pruning and Tree Trimming Program, street tree planting, and the increased distribution of informational material to Town residents; and
- WHEREAS,** the Town has reached an important milestone of planting our four thousand one hundred fifth (4,105th) tree as of April 2023; and
- WHEREAS,** the Town continues to show its commitment to the adopted Strategic Plan 2014-2019 which states "Cutler Bay will be recognized as a Town where people prefer to live, and whose residents feel a strong sense of Town identity and community pride"; and
- WHEREAS,** trees, wherever they are planted, are a source of joy and provide a strong sense of community pride.

NOW, THEREFORE, BE IT RESOLVED, I, Tim Meerbott, Mayor of the Town of Cutler Bay, by virtue of the authority vested in me and on behalf of the Town Council and citizens, proclaim **Thursday, April 27th, 2023**, as:

Arbor Day

Dated this 27th day of April, 2023.

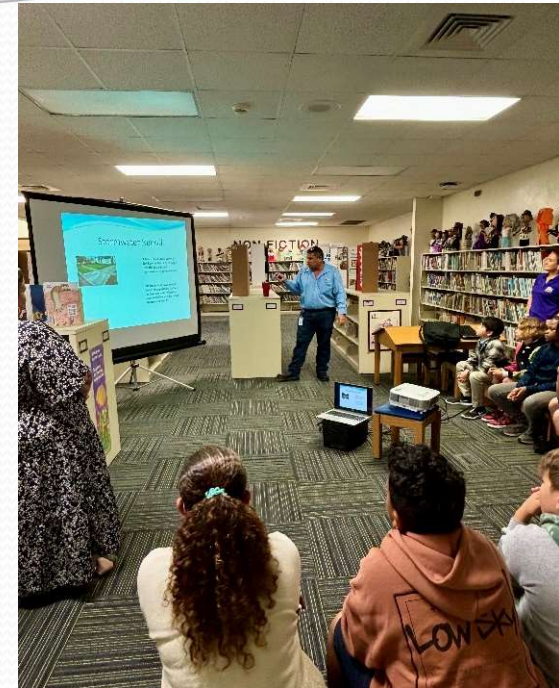
Attest:

Maurizio Mellini, CMC
Town Clerk

Mayor Tim Meerbott
Vice Mayor Michael P. Callahan
Council Member Robert "B" Duncan
Council Member Suzy Lord
Council Member Richard Ramirez



Project #4



WHISPERING PINES
ELEMENTARY
Enriching Young Minds Since 1967

Project #5

Work with local, state and federal partners to target repetitive loss properties for acquisition or elevation

- ***Project Description:*** Target repetitive loss properties for either acquisition or retrofitting to eliminate the potential for future flooding.
- ***Project Benefits:*** Reduces potential losses to buildings which could be damaged from future flood events.
- ***Status:*** Repetitive loss properties are targeted by outreach efforts through special events and/or direct mailers. Staff has completed training for FEMA IS-00279.a 'Introduction to Retrofitting Flood Prone Residential Buildings'. **Ongoing Project.**

Project #5

FEMA IS-00279.a Introduction to Retrofitting Flood Prone Residential Buildings

Emergency Management Institute



FEMA

This Certificate of Achievement is to acknowledge that

ALFREDO QUINTERO

has reaffirmed a dedication to serve in times of crisis through continued professional development and completion of the independent study course:

IS-00279.a
Introduction to Retrofitting Flood-Prone Residential Buildings

Issued this 27th Day of January, 2016



Terry Russell
Superintendent
Emergency Management Institute



1.0 IACET CEU

Emergency Management Institute



FEMA

This Certificate of Achievement is to acknowledge that

YENIER VEGA

has reaffirmed a dedication to serve in times of crisis through continued professional development and completion of the independent study course:

IS-00279.a
Introduction to Retrofitting Flood-Prone Residential Buildings

Issued this 28th Day of January, 2016



Terry Russell
Superintendent
Emergency Management Institute



1.0 IACET CEU

Emergency Management Institute



FEMA

This Certificate of Achievement is to acknowledge that

CASSANDRA SILVA

has reaffirmed a dedication to serve in times of crisis through continued professional development and completion of the Independent Study course:

IS-279.A:
INTRODUCTION TO RETROFITTING FLOOD-PRONE RESIDENTIAL BUILDINGS

Issued this 20th Day of February, 2024



Jeffrey D. Stern, Ph.D.
Superintendent
Emergency Management Institute
Federal Emergency Management Agency

1.00 IACET CEU



Project #5

Work with Local, State and Federal partners to target repetitive loss properties for acquisition or elevation



"Make Mitigation Happen" Workshop

Now is the time to take action. **Be Ready Florida** is coming to your community.

Your local community is hosting a "Make Mitigation Happen" workshop to provide information on ways to mitigate damage to your home from future disasters. Each workshop will provide homeowners with information on ways to make your home safer from windstorms that threaten Florida residents.

Information will be provided at the workshop on how to reduce insurance premiums for homeowner's windstorm coverage.

Workshop Date / Time: Monday, March 17, 2014 at 7:00 PM

Workshop Location: William B Dickinson Community Center
1601 N Krome Ave
Homestead, FL 33030

Don't miss out on this important workshop. Register today on www.BeReadyFlorida.org.

You can make a difference in your community. Invite your friends and neighbors to attend the workshop, too. For more information, visit www.BeReadyFlorida.org.

Join the conversation on Twitter @FLSERT



PUBLIC NOTICE **Flood Insurance Repetitive Loss Property**

When our system of canals, ditches and culverts was built over 20 years ago, it could handle all but the largest tropical storms and hurricanes; since then, urban development within Miami-Dade County has increased, thus also increasing the amount of stormwater runoff. Now, heavy rains overload the system more often, resulting in more frequent floods in your area with an average heavy event every 3 to 4 years.

The Town of Cutler Bay is working diligently to improve the flood protection levels of service through our Capital Improvement Program funded by the Town's Stormwater Utility Fund. We are coordinating thru Miami-Dade County with other agencies such as the South Florida Water Management District and the United States Army Corps of Engineers to increase the storage and carrying capacity of floodwaters in the surrounding primary canal system.

What is the purpose of the NFIP and Floodplain Management?

The *National Flood Insurance Program (NFIP)* enables property owners in participating communities to purchase insurance against losses from flooding.

The NFIP is a federally supported program that assists communities and citizens who are devastated by disasters. The majority (76%) of federally declared disasters are flood related, as most Americans live within close proximity to sources of flooding (e.g., rivers, coasts, lakes, etc.).

The role of Floodplain Management is to:

- Assist communities in avoiding potential flood losses
- Plan a course of action for when flooding occurs
- Protect the integrity of floodplains from activities that compromise their natural functions

Project #6

Promote retrofitting techniques for flood-proofing of residential structures

- ***Project Description:*** Promote public outreach efforts where residents can help themselves to potentially eliminate damage from low level flooding to their structure by encouraging retrofitting techniques.
- ***Project Benefits:*** Reduces potential losses to buildings which could be damaged from all types of flooding.
- ***Status:*** Residents are frequently given brochures at various Town events, Concerned Citizens meetings, Home Owner's Associations meetings/events, and through door hangers. The Town continues to perform a yearly Town wide mail out. Staff has completed training for FEMA IS-00279.a 'Introduction to Retrofitting Flood Prone Residential Buildings'. **Ongoing Project.**

Project #6

Promote retrofitting techniques for flood-proofing of residential structures



Town of Cutler Bay Flood Protection Brochure



ARE YOU PREPARED FOR A FLOOD IN YOUR NEIGHBORHOOD? YOU ARE RECEIVING THIS BROCHURE BECAUSE YOUR PROPERTY IS LOCATED IN OR NEAR A FLOODPRONE AREA.

Sources of Flooding in the Town of Cutler Bay, Florida

The Town of Cutler Bay is located in very close proximity to Biscayne Bay and the Atlantic Ocean. Flooding in the Town can be attributed to three sources: 1) tidal flooding and storm surge resulting from hurricanes and tropical storms; 2) flash flooding resulting from heavy rainfall that overburdens the drainage system within the Town; and 3) riverine flooding resulting from heavy and prolonged rainfall which causes the capacity of canals and stream channels to be exceeded. **Being prepared is your best defense against a flood.**

Steps to Prepare for a Flood:

Step 1 - KNOW YOUR FLOOD HAZARD

Regulated floodplains are illustrated on inundation maps called Flood Insurance Rate Maps (FIRMs). It is the official map for a community on which FEMA has delineated both the Special Flood Hazard Areas (SFHAs) and the risk premium zones applicable to the community. SFHAs represent the areas subject to inundation by the 1-percent-annual chance flood event. Structures located within the SFHA have a 26-percent chance of flooding during the life of a standard 30-year mortgage. FEMA FIRM maps are available for free public viewing online at msc.fema.gov/portal. Also, upon request, the Public Works Department at (305) 234-4262, will make free flood zone determinations for properties located within the Town. It is critical to note that properties located outside of the SFHA are not guaranteed to be safe from flooding.

Step 2 - INSURE YOUR PROPERTY

Flooding is not covered by a standard homeowner's insurance policy. Flood insurance is available to homeowners, condo owners, commercial owners, and all renters. Renters are encouraged to purchase flood insurance for their contents. Note that there is a 30-day waiting period before coverage goes into effect. That means now is the best time to buy flood insurance. Contact your preferred insurance agency for more information. Additional information can be found online at www.floodsmart.gov or by calling 1-888-379-9531.

The Town has been keeping Elevation Certificates on file for new construction and substantially improved buildings since 2006. To find out if your property is in a flood zone, to request the Elevation Certificate we may have on file, and for other flood protection information, please call the Town's Public Works Department at (305) 234-4262.

Step 3 - PROTECT YOURSELF AND YOUR FAMILY

- Should a storm threaten South Florida, the Town of Cutler Bay will update its website (www.cutlerbay-fl.gov) based on advisories from the Miami-Dade County Office of Emergency Management.
- Tune-in to local radio stations such as WIOD (610 AM) or WBGG (105.9 FM) and television channels 4, 7 and 10.
- All hazard NOAA Weather Radios (NWR) are available for purchase in local electronic retail or department stores and provide access to the NOAA Weather Radio System.
- If flooding threatens your home, turn off electricity at the main breaker.
- If you lose power, turn off all major appliances.
- Avoid low-lying areas. Seek shelter in the highest areas possible.
- Discuss your family emergency plan. Your family may not be together when disaster strikes, so it is important to know how you will contact one another, how you will get back together, and what you will do in case of emergency.
- Never attempt to drive through flooded roadways. Floodwaters can conceal damage underneath. As little as two feet of running water can carry away most vehicles including SUV's. **Turn Around, Don't Drown!**

Step 4 - PROTECT YOUR PROPERTY

Various methods may be used to minimize flooding. If the first finished floor elevation of your property is lower than the based flood elevation (BFE) established by FEMA, consider elevating your structure. If a flood is imminent, protect your property by sandbagging areas vulnerable to the entry of water. Valuables and furniture may also be moved to higher areas of the dwelling to minimize damages. The Town of Cutler Bay will make site visits to provide one-on-one advice to a property owner regarding flooding and drainage issues on private property. For more information, please contact the Public Works Department at (305) 234-4262.

Step 5 - BUILD RESPONSIBLY

The Town of Cutler Bay's floodplain management Ordinances 10-04, 09-06, and 06-10 include a rule that is known as the 44% rule. This rule states that if your structure is damaged or improved to an amount greater than 44% of the structure's market value, it will then have to comply with the current floodplain requirements. The Town's ordinance requires that all new construction and substantially improved buildings be built to a finished floor elevation of 1 foot above the BFE.

Before you begin any fill or construction, please contact the Town's Building Department, 10720 Caribbean Boulevard, Suite 110, at (305) 234-4193 for the appropriate permit application. If you see construction occurring without permits, please report this to the Town's Code Enforcement Department at (305) 234-4262.

Step 6 - PROTECT NATURAL FLOODPLAIN FUNCTIONS

Floodplains are a natural component of the Town's environment. Understanding and protecting the natural functions of floodplains helps reduce flood damage and protect resources. When flooding spreads out across the floodplain, its energy is dissipated, which results in lower flood flows downstream, reduced erosion of the streambank and channel, deposition of sediments higher in the watershed and improved groundwater recharge. Floodplains are scenic, valued wildlife habitat. Poorly planned development in floodplains can lead to streambank erosion, loss of valuable property, increased risk of flooding to downstream properties and degradation of water quality.

Did you know that it is illegal to throw anything- ANYTHING AT ALL! - into the lakes, canals, or other waters of the Town? Do you know that nothing but stormwater is allowed to go to the storm drains located in streets, rights-of-way, and parking lots? Dumping of materials into our waters or drains pollutes those waters, clogs our storm drains, and leads to flooding in our neighborhoods. For additional information or to report any illegal discharges, please contact the Town's Public Works Department at (305) 234-4262, or the Miami-Dade County Call Center at (305) 469-5900. The Public Works and Waste Management Department's permanent Home Chemical Collection Centers accept oil-based paints, pesticides, solvents, pool chemicals, unbroken fluorescent light bulbs (to include the older, long-tube fluorescents, modern compact fluorescent light bulbs [CFLs] and other fluorescent types) and other electronic waste. The South Dade Center is located at 23707 SW 97th AVE Gate-B. Hours of operation are 9 am to 5 pm Wednesday through Friday.

The centers also accept latex paints that are still in liquid form. However, it is recommended that new paints or latex paint that is still in good condition be donated to neighbors or community groups. If you have unusable or poor quality latex paint still in liquid form, dry out any remaining liquid with an absorbent material such as newspaper or kitty litter. Once the latex paint has been solidified, you can place the paint can in the regular household waste container for collection. Also, propane tanks can be disposed of at one of the two Home Chemical Collection Centers. You can also dispose of empty oxygen tanks. Larger tanks such as those used for RV's, forklifts, or fixed kitchen gas supply are not accepted. The centers are available for non-commercial residents only.

Step 7 - HURRICANE PREPAREDNESS

If required, the Miami-Dade County Office of Emergency Management will order evacuations. If evacuations are called for, it is imperative that you follow instructions in the timeframe noted. The primary evacuation routes in Cutler Bay are US 1 and the Florida Turn Pike.

Miami-Dade County will use radio and TV stations to broadcast emergency information. In addition, you can register for emergency notifications via the County's emergency notification system at www.miamidade.gov/alerts.

If a hurricane evacuation is ordered, residents are encouraged to stay with family members or friends in an inland area. Hurricane Evacuation Centers will be opened, but the Centers should only be considered as a last resort. Emergency bus pick-up sites will be activated to provide public transportation to and from designated Hurricane Evacuation Centers. To learn more about designated shelter locations and bus pick-up points, go to www.miamidade.gov/fire/evacuations.asp.

Step 8 - GENERAL PREPAREDNESS

Inventory and photograph your home's contents and put important papers and insurance policies in a safe place.

Keep an emergency supply including non-perishable food, water, batteries, flashlights, manual can opener, and a battery-operated radio.

If possible, place the washer, dryer, furnace and water heater above potential flood waters. They should be placed on masonry blocks or concrete at least 12 inches above the projected flood elevation, moved to inside a floodwall or moved to a higher floor. All work must conform to state and local building codes.

Additional information is available online at www.miamidade.gov/hurricane/ and www.nhc.noaa.gov/prepare/ready.php.

Step 9 - BE AWARE OF OTHER HAZARDS

As a Town resident you need to be aware of other hazards that could impact your property, one of which can be sinkholes. If you witness any sinkholes occurring in Town streets or on Town-owned property, please contact the Public Works Department at (305) 234-4262 or email your concerns to AQuintero@Cutlerbay-fl.gov. Sinkholes can be a dangerous hazard for traffic and residents. Although the Town is not authorized to fix sinkholes on private property, we can try to assist home and business owners with options they can use to resolve this issue.

Step 10 - FLOOD EDUCATION

Teach school children about flooding and the benefits of reduced stormwater pollution through an Enviro-Scape model (www.enviroscapecom.com) or similar education tool. Contact the Public Works Department at (305) 234-4262 for additional information.

For more information about Flood safety, Flood Response, NFIP, and Hurricane Preparedness, contact the following:

www.cutlerbay-fl.gov
www.miamidade.gov/emergency
www.floridadisaster.org
www.floodsmart.gov
www.ready.gov/floods
1-888-379-9531



Project #6

Promote retrofitting techniques for flood-proofing of residential structures

- HOA Meetings
- Town Events
- Schools
- Mailers
- Website
- Email Blasts
- Door Hangers



Project #7

Promote the purchase of flood insurance to residents and businesses

- ***Project Description:*** Increase the Town's flood insurance policy base to ensure that residents are adequately protected from flood damage. The Town's outreach program can increase the messaging in a number of ways to encourage the purchase of flood insurance including working with local insurance agents.
- ***Project Benefits:*** Public outreach and awareness that flood insurance is a homeowner's first line of defense against flood damage.
- ***Status:*** Residents are frequently given brochures at various Town events, Concerned Citizens meetings, Home Owner's Associations meetings/events, and through door hangers. Also there are targeted mailers sent annually to homeowners in the SFHA, all Town realtors, lenders, and insurance brokers.
Ongoing Project revised annually.

Project #7

Promote the purchase of flood insurance to residents and businesses

- Residents receive the adjacent brochures at all Town special events, as well as through door hangers.
- Events include:
 - Chili Cook-off
 - Food Truck Night
 - Easter Eggstravaganza
 - Founder's Day
 - PSA at Movie Nights
 - Bike-B-Que
 - Tour de Parks
 - Wings Over the Bay
 - 4th of July Parade and Picnic
 - Tri-City Hurricane Preparedness Workshop
 - Halloween Spooktacular
 - HOA Meetings
 - The Big Sting: Mosquitoes in South Florida
 - Mosquito 101 Workshop



National Flood Insurance Program

The Benefits of
Flood Insurance
Versus Disaster Assistance



FEMA

Project # 8

Protect natural floodplain functions within the Town including the Cutler Wetlands, as defined by SFWMD

- ***Project Description:*** Preserve the Cutler Wetlands as a natural area on the east side of Cutler Bay to protect homes against storm surge and sea-level rise. Additionally, the wetland areas serve as a natural habitat for certain species of plant and animals which should also be protected.
- ***Project Benefits:*** Reduces potential losses to buildings which could be damaged from storm surge and sea-level rise.
- ***Status:*** Under CRS Activity 420, the Town continues to preserve its open space in the floodplain. The Town is currently part of the Comprehensive Everglades Restoration Plan (CERP). State Legislative Item # 2018-02 Cutler Bay Wetland Observation Pavilion (SW 97th Avenue) are currently being proposed as recreational additions to the floodplain. On August 21, 2019, the Town of Cutler Bay coordinated and hosted a meeting with all stakeholders to provide input essential for project's progress.

Project is currently underway, Project Cost \$35,000,000

Project # 8

Protect natural floodplain functions within the Town including the Cutler Wetlands, as defined by SFWMD



Project # 8

Protect natural floodplain functions within the Town including the Cutler Wetlands, as defined by SFWMD

- Excerpt from the Town's Flood Protection Brochure :
 - Flood plains in our Town serve a beneficial purpose to our quality of life. These low areas are where rainfall goes to drain, and when the rainfall drains into the ground, this helps reduce flooding, and recharges our drinking water supply. Some examples of floodplains in Cutler Bay are the areas south of Lakes by the Bay community and the entire eastern border of the Town from SW 184 Street to SW 232 Street. These floodplains also serve as filters of storm water runoff as it seeps through the ground and into our aquifer. This aquifer is our only source of drinking water, and this filtering helps contain pollution before it reaches our aquifer. It is important that we appreciate our floodplains, and try to maintain, preserve, and keep these areas clean whenever possible.

Project # 8

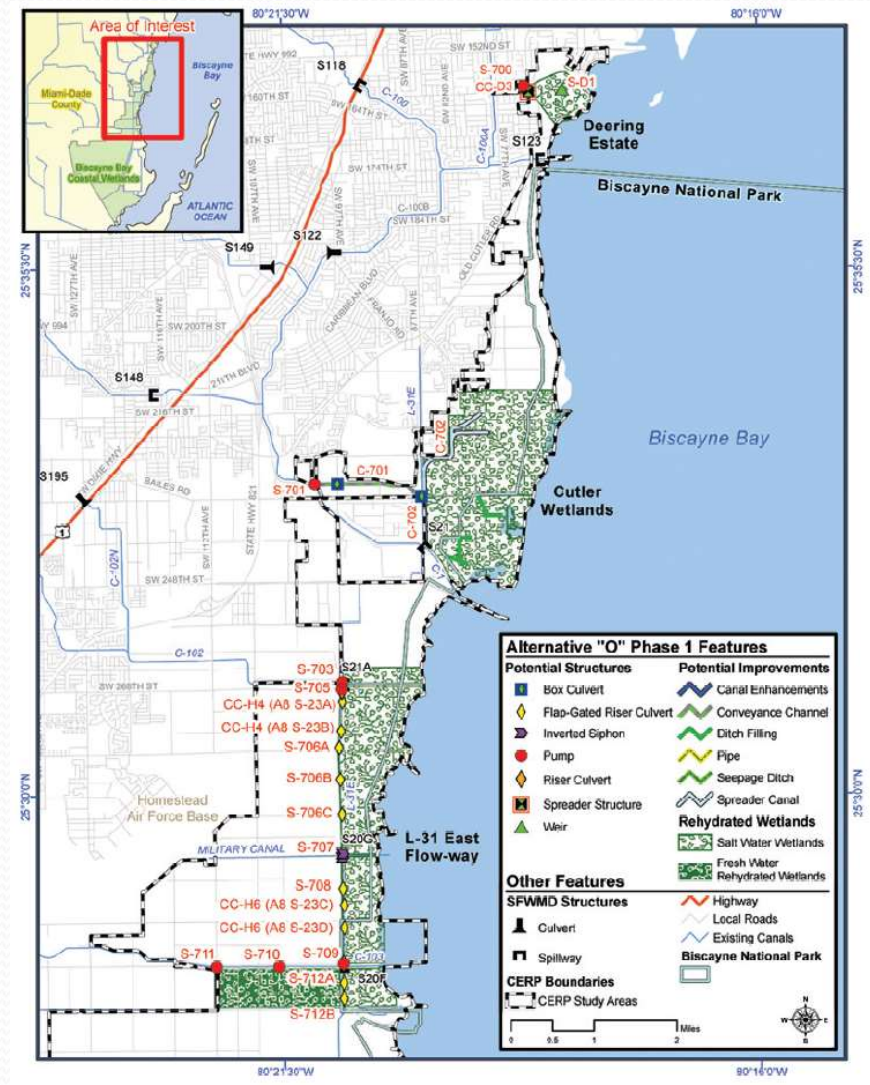
Protect natural floodplain functions within the Town including the Cutler Wetlands, as defined by SFWMD

- As per the Town's Land Development Regulations Section 3-63:
 - The Conservation District is composed of environmentally sensitive areas. It is intended to preserve and protect open spaces, park lands, wilderness areas, marshlands, watersheds and water recharge areas, scenic areas, beaches, and native flora and fauna. It is also intended to preserve areas for residents and visitors to view wildlife in their natural habitat as a passive recreational opportunity.
 - (1) *Permitted Uses.*
 - (a) Elevated Walkway [with railing]
 - (b) Undeveloped Passive Park and Open Space
 - (c) Scenic Viewing Tower
 - (d) Recreational Facility (be limited to trail, interpretive centers, viewing areas and other recreation uses deemed to be of low intensity)
 - (2) *Site Development Standards:* as approved by Town Council.

Project # 8

Protect natural floodplain functions within the Town including the Cutler Wetlands, as defined by SFWMD

- Comprehensive Everglades Restoration Plan (CERP) Map.
- Conservation Area Acreage: 1,266



Project # 8

Protect natural floodplain functions within the Town including the Cutler Wetlands, as defined by SFWMD



Project # 8

Protect natural floodplain functions within the Town including the Cutler Wetlands, as defined by SFWMD



Project # 8

Protect natural floodplain functions within the Town including the Cutler Wetlands, as defined by SFWMD

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

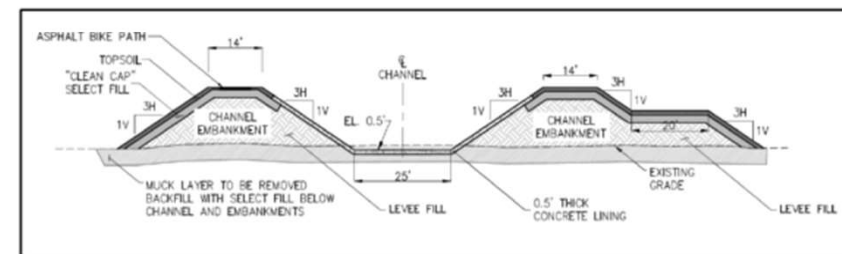
Biscayne Bay Coastal Wetlands Phase I Cutler Wetlands



■ ■ Elevated 8' Bike/multi use paved trail along the conveyance channel north berm.

■ Bird watch overlook

■ Parking area & Trailhead



Project # 9

Increase awareness of the flood hazard through development of a program for public information

- ***Project Description:*** Increase outreach efforts by determining which types of messages, target audiences and target areas should be focused upon in an overall outreach strategy to better inform the public of flood risks and flood response efforts.
- ***Project Benefits:*** Better informed public can result in better protection to buildings.
- ***Status:*** Residents are frequently given brochures at various Town events, Concerned Citizens meetings, Home Owner's Associations meetings/events, and through door hangers. The first Program for Public Information (PPI) was adopted via Resolution No. 16-32 on May 18, 2016. Town of Cutler Bay Town Council held a workshop to discuss updates to the FMP, PPI and RLAA. **New updated plan was adopted via Town Resolutions No. 21-77, 21-78, 21-79 on November 17, 2021 council meeting.**

Project # 9

Increase awareness of the flood hazard through development of a program for public information

- Residents receive the adjacent brochures at all Town special events, as well as through door hangers.
- Events include:
 - Chili Cook-off
 - Founder's Day
 - PSA at Movie Nights
 - Bike-B-Que
 - Tour de Parks
 - Easter Eggstravaganza
 - Wings Over the Bay
 - 4th of July Parade and Picnic
 - Tri-City Hurricane Preparedness Workshop
 - Halloween Spooktacular
 - HOA Meetings
 - The Big Sting: Mosquitoes in South Florida
 - Mosquito 101 Workshop



National Flood Insurance Program

The Benefits of
Flood Insurance
Versus Disaster Assistance



Project # 9

Increase awareness of the flood hazard through development of a program for public information

RESOLUTION NO. 21-77

A RESOLUTION OF THE MAYOR AND TOWN COUNCIL OF THE TOWN OF CUTLER BAY, FLORIDA, ADOPTING THE REVISED FLOOD MITIGATION PLAN; PROVIDING FOR IMPLEMENTATION; AND PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, the Town of Cutler Bay (the "Town") is vulnerable to hurricanes and other flood hazards that can cause loss of life and damages to public and private property; and

WHEREAS, the Town has been an active participant in the Federal Emergency Management Agency's National Flood Insurance Program's Community Rating System Program (the "CRS"), which encourages communities to voluntarily implement standards, policies, and programs that go above and beyond the minimum regulations in return for lower flood insurance premiums; and

WHEREAS, the Town's participation and documented activities in the CRS has earned the Town a current classification rating of four (4), which results in an annual savings of thirty percent (30%) to all property owners in the Special Flood Hazard Area (SFHA) who purchase flood insurance policies; and

WHEREAS, on July 17, 2013, the Town established a Floodplain Mitigation Plan Advisory Committee via Resolution No. 13-56 to assist the Town in the development and implementation of the Town's Floodplain Mitigation Plan; and

WHEREAS, on October 15, 2014, the Town Council adopted the Flood Mitigation Plan via Resolution No. 14-73; and

WHEREAS, on May 20, 2015, the Town Council adopted a revised Flood Mitigation Plan via Resolution No. 15-27 as a result of several changes requested by FEMA to comply with the Federal Hazard Mitigation Planning Standards contained in 44 CFR 201.6(b)-(d); and

WHEREAS, every five (5) years the Flood Mitigation Plan has to be updated as a requirement for the CRS; and

WHEREAS, on October 16, 2019, the Town Council adopted Resolution No. 19-79 authorizing the Town Manager to select Wood Environment & Infrastructure Solutions, Inc. to update the Flood Mitigation Plan and waiving competitive bidding due to impracticability; and



Project #10

Work with Miami-Dade County Emergency Management on identifying vulnerable populations for evacuations

- **Project Description:** Inventory and identify vulnerable populations within the Town to ensure that the elderly and those who are disabled are recognized by first responders. This is so their locations are established so that the emergency management officials understand where these populations reside in case evacuations become necessary.
- **Project Benefits:** Avoid possible loss of life.
- **Status:** The Town of Cutler Bay is currently in compliance with all requirements of Miami-Dade County Emergency Management. Project maintenance to be funded in FY 19-20 Operating Budget. Miami-Dade County has received a response from the State, the Flood Warning Plan has been approved. This activity has earned the Town an additional 269 points. The Town planned on hosting an educational workshop for Active Adults on the topic of hurricane preparedness for seniors in May 2020 but was postponed due to COVID-19. The Town's Public Works Director and Town Manager were Keynote Speakers in a ZOOM Virtual Meeting with the CBBA on June 11, 2020. Town staff performed an internal Hurricane Exercise with Homestead EOC in FY 2020-2021. On April 21, 2022, The Town coordinated with Miami-Dade EOC, a Disaster Preparedness Event which was held at East Ridge of Cutler Bay. From June 2-9 the Town experienced a real-life flooding event in which Tropical Storm Alex produced 26 inches of rain in Cutler Bay flooding local streets. Town officials and EOC worked together to obtain resources for the purpose of mitigating the event.
- **On June 16, 2023, the Town participated in a hurricane exercise with Miami-Dade County EOC.**
- **The Town will coordinate with Miami-Dade County to participate in 2024.**

Project #10

Work with Miami-Dade County Emergency Management on identifying vulnerable populations for evacuations

- Emergency Assistance Program Evacuation list.
- 105 Town residents registered on the Emergency Evacuation Assistance Program.



EMERGENCY EVACUATION ASSISTANCE PROGRAM

Report from Query:PSN Registrants

Municipality = CUTLER BAY AND Active Status = 1

Date: 7/20/2011 : 4:37:20PM

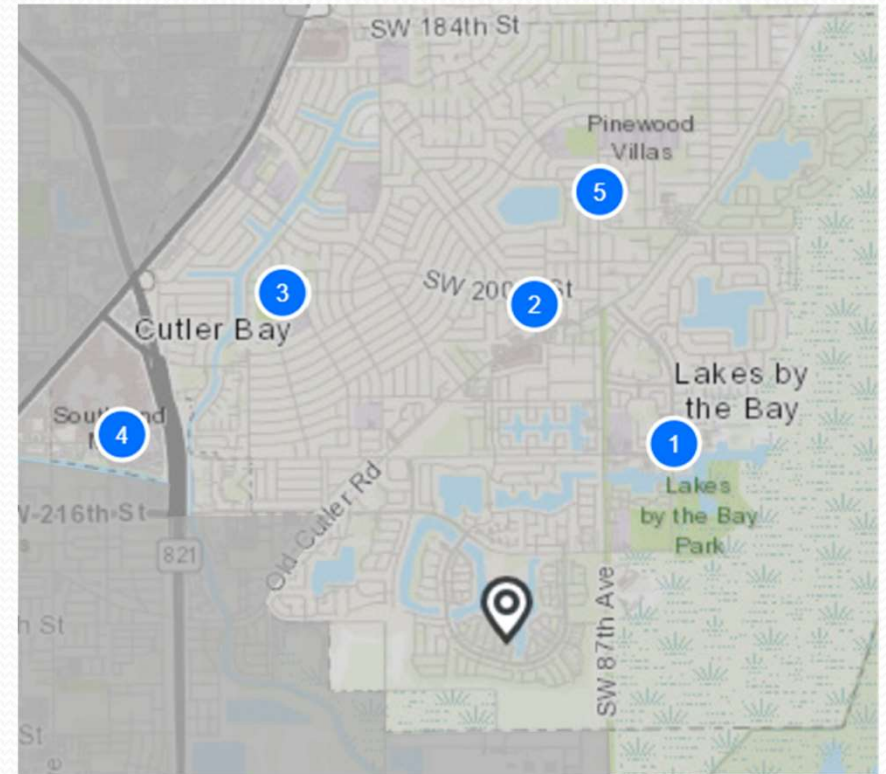
ID	Last Name	First Name	Address	Phone No.	Tran Type	Location
16385	SMITH	NANCY	19680 SW 81 CT MIAMI-33189	(305) 255-7577	LIFT GATE VEHICLE (WHEELCHAIR)	SN71
16910	FARFAN	JOSE	21176 PERMIT LN MIAMI-33189	(305) 969-9541	LIFT GATE VEHICLE (WHEELCHAIR)	SN71
17659	VIRSIDA	PILAR	9076 SW 215 TERR CORAL GABLES-33189	(305) 255-2104	LIFT GATE VEHICLE (WHEELCHAIR)	SN71
17786	FEFFE	LILIA	9771 SW 220 ST CUTLER BAY-33190	(305) 238-8525	PRIVATE TRANSPORTATION	SN71
18019	SALAZAR	AMADO	9421 EASTER RD CUTLER BAY-33157	(305) 251-9722	STANDARD TRANSPORTATION	SN71
18354	AGURTO	SERGIO	21215 SW 85 AVE -308 CUTLER BAY-33189	(305) 259-6082	STANDARD TRANSPORTATION	SN71
18827	HOLLER	KAYLEE	9320 MARTINIQUE DR CUTLER BAY-33189	(305) 951-9818	PRIVATE TRANSPORTATION	MM09
19288	WIGGER	LEE	9891 SW 221 TERRACE MIAMI-33190	(305) 254-5489	PRIVATE TRANSPORTATION	MM21
19730	VAZQUEZ	MIRTA	8160 SW 210 ST -107 Miami-33189	(305) 256-0772	LIFT GATE VEHICLE (WHEELCHAIR)	SN71
19898	ANDERSON	DAVID	19218 SW 92ND RD CUTLER BAY-33157	(305) 252-7905	STANDARD TRANSPORTATION	SN71
20273	GREENE	ROBERT	10380 SW 200 TERR MIAMI-33188	(305) 378-4136	AMBULANCE (BLS)	MM29
30381	MAS	MICHELLE	8057 SW 185 STREET CUTLER BAY-33157	(305) 253-8192	LIFT GATE VEHICLE (WHEELCHAIR)	MM09
30667	ALVAREZ	ISSAC	11120 SW 196 ST -B104 CUTLER BAY-33157	(305) 213-7537	PRIVATE TRANSPORTATION	MM09
30913	HASNI	NASEEM	9001 SW 198 TERR CUTLER BAY-33157	(305) 235-4595	AMBULANCE (ALS)	MM09
30962	WALKER	KENNETH	19930 CUTLER COURT CUTLER BAY-33189	(305) 253-1633	PRIVATE TRANSPORTATION	SN71
30964	SANTAMARIA	SARA	21215 SW 85 AVENUE -420 CUTLER BAY-33189	(305) 254-8977	STANDARD TRANSPORTATION	SN71
31044	LASHLEY	STANLEY	18867 SW 86 CT -1 CUTLER BAY-33157	(305) 226-4073	STANDARD TRANSPORTATION	SN71

Project #10

Work with Miami-Dade County Emergency Management on identifying vulnerable populations for evacuations

- Current Bus Pickup Points

Site Number	Site Name	Address	Zip Code
1	The Cove Condominium	21163 SW 83 Avenue	33189
2	Franjo Park	20175 Franjo Road	33189
3	Cutler Ridge Park	10100 SW 200 Street	33157
4	Southland Mall (Southside)	10850 SW 211 Street	33189
5	East Ridge Retirement Village	SW 193 Terrace & SW 87 Avenue	33157



Project #11

Work with Miami-Dade County Emergency Management and state and federal governments to protect vulnerable critical facilities

- **Project Description:** protecting critical facilities which operate as either evacuation centers or pump flood waters, or sewage should be protected from flood damage, so they perform without interruption.
- **Project Benefits:** Reduces potential damage to critical facilities.
- **Status:** Critical facilities, located within the Town, are up to date with Miami-Dade County and have filed their Emergency Procedures with Miami-Dade County EOC. The Town recently completed a Land Swap Deal which traded the existing Town Hall Building and South Parking Lot Parcel for 16 Acres of Vacant Land in the heart of Cutler Bay. The Vacant Land is approximately located on Old Cutler Road and SW 97th Avenue. The intent is to develop a new state of the art Municipal Town Hall Complex which will serve as the Town's Emergency Operation Center and be capable to withstand a Category 5 Hurricane Storm. On November 17, 2021, the Town Council unanimously voted to conduct a special mail ballot election for qualified electors of the Town to vote for the approval or rejection of the \$37 Million general obligation bond referendum for the purpose of financing the costs to develop a park, community center, and municipal building at the Property (via Resolution No.21-88). On March 25, 2022, , the Supervisor of Elections for Miami-Dade County certified the Official Results of the *Cutler Bay Special Election (Mail Ballot)* of which 5,650 ballots were received. **The official results show 3,720 votes (or 65.84%) were in favor of the bonds and 1,930 votes (or 34.16%) were against.**

Project #11

Work with Miami-Dade County Emergency Management and state and federal governments to protect vulnerable critical facilities

- Current list of critical facilities, as of 2024.

 CRITICAL FACILITIES 		
AREA SCHOOLS		
Location	Address	Phone No.
Bel-Aire Elementary	10205 SW 194th Street	(305) 233-5401
Cutler Ridge Elementary	20210 Coral Sea Road	(305) 235-4611
Cutler Ridge Middle	19400 Gulfstream Road	(305) 235-4761
Gulfstream Elementary	20900 SW 97 Avenue	(305) 235-6811
Our Lady of the Holy Rosary (Private)	9500 SW 184 Street	(305) 234-5442
Whigham Elementary	21545 SW 87 Avenue	(305) 234-4840
Whigham Learning Facility	8035 SW 196 Street	(305) 252-5050
Whispering Pines Elementary	18929 SW 89 Road	(305) 238-7382
ASSISTED LIVING FACILITIES		
Bel Aire Retirement Home	9955 SW 196 Street	(305) 338-8047
Bel-Air ALF II Inc.	19431 Franjo Road	(305) 283-8680
Bel-Air ALF Inc.	8830 Caribbean Blvd	(305) 255-8737
Bella Luna Retirement Home	18700 SW 93 Court	(305) 969-7482
Bel-View ALF Corp	19768 Bel-Aire Drive	(786) 306-9441
Bertha Elderly Care	10051 Haitian Drive	(305) 235-3636
Bertha Elderly Care #2	10411 SW 200 Terrace	(305) 259-9242
Best ALF	19010 Bel-Aire Drive	(828) 351-1766
Blue Point Home Care	21910 SW 97 Court	(305) 971-5826
Caribbean ALF	9860 Caribbean Blvd.	(305) 562-7971
East Ridge Retirement Village	19301 SW 87 Avenue	(305) 238-2623
Genesis Care Centers	8395 SW 187 Terrace	(305) 859-7509
Good Time Home Care	8640 SW 185 Street	(305) 252-9419
Guardian Angel ALF	10265 Nicaragua Drive	(786) 344-3318
Harmony Family Home	9245 SW 208 Terrace	(786) 242-5577
Kenneth Home Inc.	9760 Memorial Road	(305) 278-1351
Living Well AIF	21280 Old Cutler Road	(305) 431-2586
Marilyn Retirement	20610 Marlin Road	(786) 216-3839
Nuestro Hogar ALF, Inc.	9384 SW 184 Terrace	(786) 252-6818
Old Cutler Retirement Home	21640 Old Cutler Road	
Paradise Villa	21164 SW 92 Place	(305) 971-6477
Precious Moments ALF	9480 Dana Road	(786) 925-9518

Project #12

Complete the Cutler Bay Wetlands Restoration Project Plan to prevent flood damages and restore mitigation property to a world class birding sanctuary. Share information about this project with stakeholders and the public.

- ***Project Description:*** Preserve the Cutler Wetlands as a natural area on the east side of Cutler Bay to protect homes against storm surge and sea-level rise. Additionally, the wetland areas serve as a natural habitat for certain species of plant and animals which should also be protected.
- ***Project Benefits:*** Reduces potential losses to buildings which could be damaged from storm surge and sea-level rise.
- ***Status:*** Town was awarded a \$700,000 from FDEP for the Cutler Bay Wetlands Restoration. With a Town match of \$700,000. The Towns consultant, Kimley-Horn and Associates was issued PO #3143 for \$132,160 in design services.

Project #12

Complete the Cutler Bay Wetlands Restoration Project Plan to prevent flood damages and restore mitigation property to a world class birding sanctuary. Share information about this project with stakeholders and the public.

Recreation Features



blind, Yatsu mudflat (Yatsu higata), Narashino Chiba Japan.

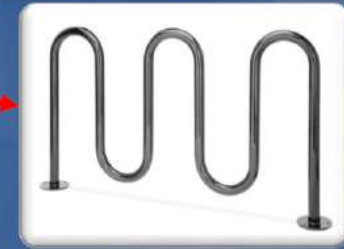
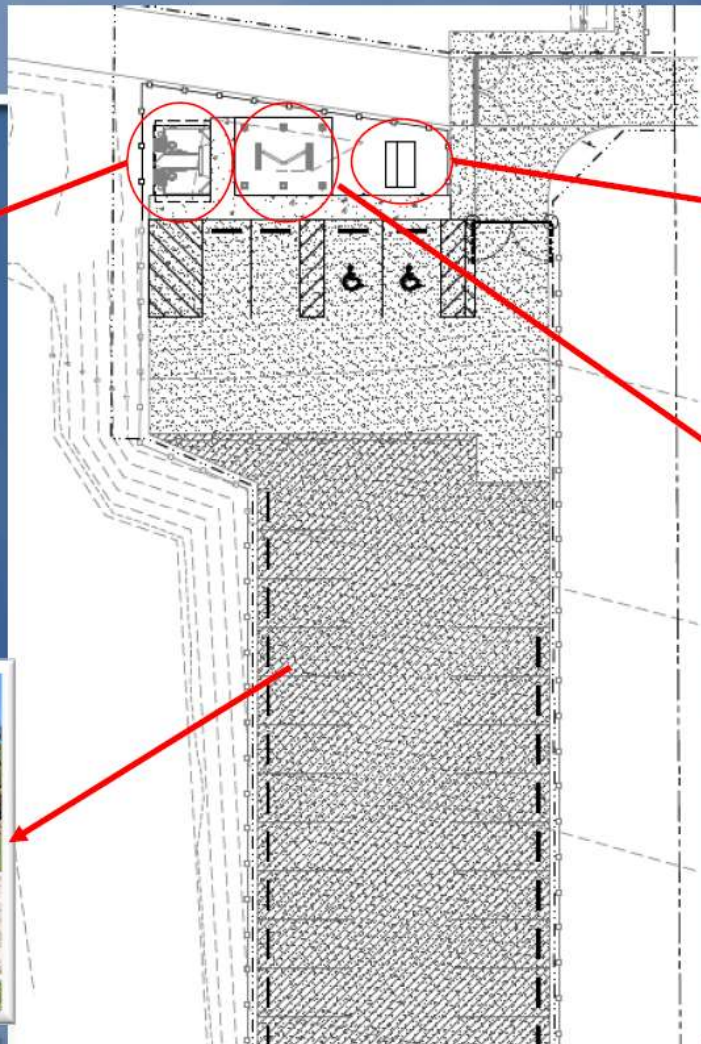


**Bird Watching
Facility**

Trail Head

Project #12

Complete the Cutler Bay Wetlands Restoration Project Plan to prevent flood damages and restore mitigation property to a world class birding sanctuary. Share information about this project with stakeholders and the public.



Project #13

Acquire or redevelop parcels for recreational open space and natural and beneficial functions.

- ***Project Description:*** Acquire undeveloped parcels with the vision to preserve the vacant land for its environmental value.
- ***Project Benefits:*** Protection of property along with natural resources. This will increase the towns resiliency efforts.
- ***Status:*** Town has purchased 8.45 Acres located at 18551 Old Cutler Road
- **Town has purchased SW 87th Ave & Old Cutler Road adjacent lot. Appox. 3.5 acres.**

Project #13

Acquire or redevelop parcels for recreational open space and natural and beneficial functions.

The Vision for Pine Rockland Restoration and Preservation Along Old Cutler Road

1. Hammock Trail
2. Wetland/Pine Rockland Ecotone
3. Pine Rockland Trail
4. Exercise Station
5. Parking
6. Nature Center
7. Educational Discovery Zone
8. Waterview Birding Outlook
9. Pine Rockland/Hammock Ecotone
10. Wetland
11. Swamp Willow
12. Strangler Fig Specimen
13. Buttonwood Mangrove Forest
14. Observation Tower
15. Canoe/Kayak Launch



3. Pine Rockland Trail



5. Nature Center



5. Nature Center



- | | | | |
|----------------------------|----------------|------------------|------------------------------|
| ■ Conditional Pump Station | --- Boardwalk | — Pipe | ■ Waterview Birding Outlook |
| ■ Pump station | — Canoe Launch | — Spreader Canal | ■ Educational Discovery Zone |
| ○ Observation Tower | — Trail | ■ Nature Center | ■ Parking Lot |



7. Educational Discovery Zone



8. Waterview Birding Outlook



10. Wetland Boardwalk



13. Mangrove Boardwalk



14. Observation Tower



15. Canoe/Kayak Launch

Project #14

Educate repetitive loss property owners on ways to protect their building from flood damage.

- ***Project Description:*** Providing a comprehensive outreach effort to all properties within the Special Flood Hazard Area (SFHA) and a focus on properties at the highest end of the flood damage spectrum.
- ***Project Benefits:*** Decline in Repetitive Loss claims and diminished funds of the National Flood Insurance Program.
- ***Status:*** The town recently adopted the Repetitive Loss Area Analysis (RLAA) under Resolution No. 21-79.

Project #14



Repetitive Loss Area Analysis

Town of Cutler Bay, Florida
September 2021

Public Version



wood.



Project #15

Identify segments of canals where erosion is causing banks to collapse and prepare a prioritized list for improvements

- ***Project Description:*** Inventory all canals (whether owned by the Town or other agency or community) to determine where erosion is causing banks to erode and collapse so that the capital improvement strategy can be put in place for maintenance.
- ***Project Benefits:*** reduces potential losses to buildings which could be damaged from canals not operating properly.
- ***Status:*** Applied for a Florida Department of Environmental Protection (FDEP) grant. Town was awarded \$750,000 for canal bank stabilization. Kimley-Horn and Associates was issued PO#3173 for \$124,115 for design services.

Project #15

Identify segments of canals where erosion is causing banks to collapse and prepare a prioritized list for improvements

Grant application

- Funding requested by the Town \$750,000 (50%).
- Town contribution \$750,000 (50%) through the Stormwater Utility Fund.
- Total project cost: \$1,500,000.



SENATOR ILEANA GARCIA
37th District

September 20, 2021

Secretary Shawn Hamilton
Florida Department of Environmental Protection
3900 Commonwealth Boulevard
Mail Station 10
Tallahassee, FL 32399

RE: Town of Cutler Bay Resilient Florida Grant Program Application

Dear Secretary Hamilton,

I write to you regarding the Town of Cutler Bay's Resilient Florida Grant Program 2021-2022 applications for the Cutler Bay Canal Bank Restoration and Cutler Bay Buffer Land Restoration projects.

Funding these projects would not only support efforts to restore lost or degraded unique South Florida habitats but would also create future opportunities of environmental engagement through the creation of an immersive nature watching experience for both residents and visitors. I hope that the Florida Department of Environmental Protection recognizes the significant local and regional impact and the return on investment, through these additional state resources, that this project can deliver.

I recommend to the Florida Department of Environmental Protection to assist in funding this effort for more responsible coastal management from the Town of Cutler Bay. Should my office be of any assistance please do not hesitate to reach out.

Sincerely,

Senator Ileana Garcia
Florida Senate District 37

REPLY TO:
□ 2828 Coral Way, Suite 208, Miami, Florida 33145 (305) 442-8841
□ 326 Senate Building, 404 South Monroe Street, Tallahassee, Florida 32399-1100 (850) 487-5037
Senator's Website: www.flsenate.gov

WILTON SIMPSON
President of the Senate

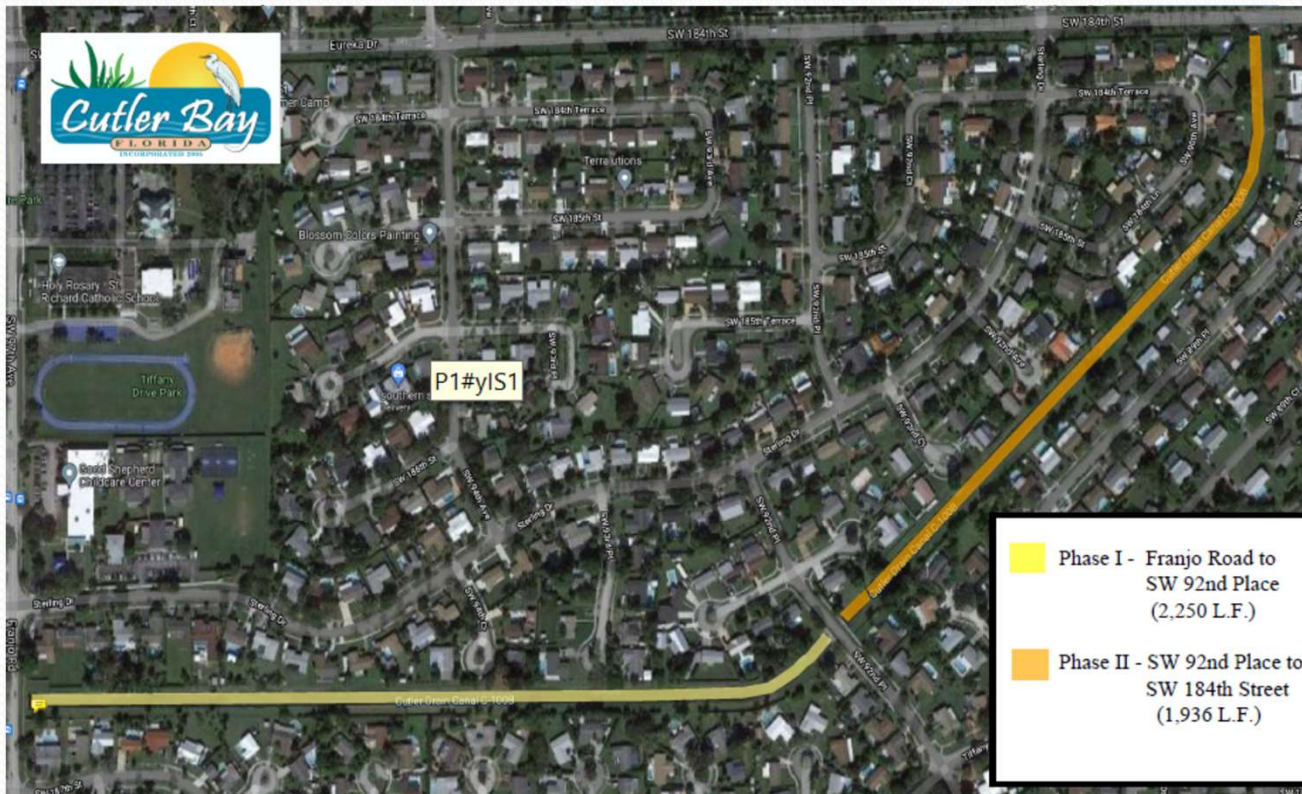
AARON BEAN
President Pro Tempore

THE FLORIDA SENATE
Tallahassee, Florida 32399-1100

COMMITTEES:
Children, Families, and Elder Affairs, Chair
Community Affairs, Vice Chair
Rules, Vice Chair
Appropriations Subcommittee on Agriculture,
Environment, and General Government
Appropriations Subcommittee on Transportation,
Tourism, and Economic Development
Commerce and Tourism
Ethics and Elections
Health Policy

Project #15

Identify segments of canals where erosion is causing banks to collapse and prepare a prioritized list for improvements




- Map of proposed improvements.
- Phase I
Franjo Rd to SW 92nd Place
(2,250 l.f.)
- Phase II
SW 92nd Place to SW 184th
St (1,936 l.f.)

Project #15

Identify segments of canals where erosion is causing banks to collapse and prepare a prioritized list for improvements

TOWN OF CUTLER BAY CANAL BANK RESTORATION




PROJECT LOCATION
MIAMI-DADE COUNTY

LOCATION
C-100-B CANAL
CUTLER BAY, FL 33157

Sheet List Table	
Sheet Number	Sheet Title
C000.0	COVER SHEET
C100.0	GENERAL NOTES
C200.0	KEY MAP
C300.0	ENGINEERING PLAN
C300.1	ENGINEERING PLAN
C300.2	ENGINEERING PLAN
C300.3	ENGINEERING PLAN
C300.4	ENGINEERING PLAN
C400.0	TYPICAL CROSS SECTIONS AND ENGINEERING DETAILS
C400.1	ENGINEERING DETAILS

TOTAL LENGTH OF PROPOSED CBS: 8,345 FT



PROJECT LOCATION

VICINITY MAP
1"=500'


PROJECT TEAM

PUBLIC WORKS
TOWN OF CUTLER BAY
10720 CAMDEN BLVD, SUITE 105
CUTLER BAY, FLORIDA 33159
CONTACT: RAUL CASALS

SURVEYOR
SEA OVERSEAS, INC.
160 CONGRESS CAVEN DRIVE, SUITE 114
DELRAY BEACH, FLORIDA 33446
(561) 344-9422

CIVIL ENGINEER
KIMLEY-HORN AND ASSOCIATES, INC.
5001 PETERS ROAD, SUITE 2000
PLANTATION, FLORIDA 33324
(954) 586-5000
CONTACT: STEFANO VOLTA, P.E.

PREPARED BY:



NO PORTION OF INFORMATION SHALL BE
REPRODUCED OR TRANSMITTED IN ANY
FORM OR BY ANY MEANS, ELECTRONIC,
MECHANICAL, OR OTHERWISE, WITHOUT
THE WRITTEN PERMISSION OF KIMLEY-HORN
AND ASSOCIATES, INC.

ALL ELEVATIONS SHOWN ON THESE PLANS ARE
BASED ON THE NAVD 83 TO CONVERT
ELEVATIONS TO NAVD 83, ADD 1.02'

Sunshine
Call 877 or visit sunshinefl.com for full
Sunshine logo and registration to view
Sunshine facilities located and managed.
Client contact information: 305.456.9919, flg

U.S. G.S. 100-10-1
KIMLEY-HORN AND ASSOCIATES, INC.
5001 PETERS ROAD, SUITE 2000
PLANTATION, FLORIDA 33324
(954) 586-5000

Kimley-Horn

TOWN OF CUTLER BAY
CANAL BANK RESTORATION
TOWN OF CUTLER BAY

COVER SHEET

FL

HEET 0000.0

Project #16 – Improve drainage along a flood prone Town streets or neighborhoods

- Saga Bay 1.2: 100% Completed
- SW 212 Street Project 100% Completed (Award Winning Project)
- Point Royal Section 5 on SW 100th Avenue Project 100% Completed (Award Winning Project)
- Cutler Ridge Section 3 Drainage Improvement Project (100% completed)
(Award Winning, APWA Contractor of the Year and Consultant of the Year)

New Project: Saga Bay 1.7 Drainage Improvement Project. (100% completed)

New Project: Saga Bay 1.5 Water Quality Improvement Project (100% completed)

New Project: SW 82 Avenue Roadway Improvements and Traffic Circle Project (Under Construction)

New Project: Cutler Ridge Pines Drainage Sub-Basin Water Quality Improvement Project (Under Procurement)

New Project: Belaire Water Quality Improvement Project (Under Procurement)

- **Project Description:** Upgrade the storm water infrastructure along SW 82 Avenue. This project will improve discharge and/or storm water runoff.
- **Project Benefits:** Tropical Storm Alex flooded portions of SW 82 Avenue exposing its vulnerability. This project reduces potential losses to structures which could be damaged from storm water flooding and prevents hazardous driving conditions for residents.
- **Status:** Project under construction.
- **Funding source(s):** The town received \$800,000 from an FDOT LAP Grant. The remainder of the project will be funded with ARPA funds. Construction has been awarded to Maggoc, Inc. via Resolution No. 23-82 on September 20, 2023. The construction started on January 8, 2024.

Project #16 – SW 82 Avenue Roadway Improvements Project



Project #17 – Town-wide water quality improvement projects.

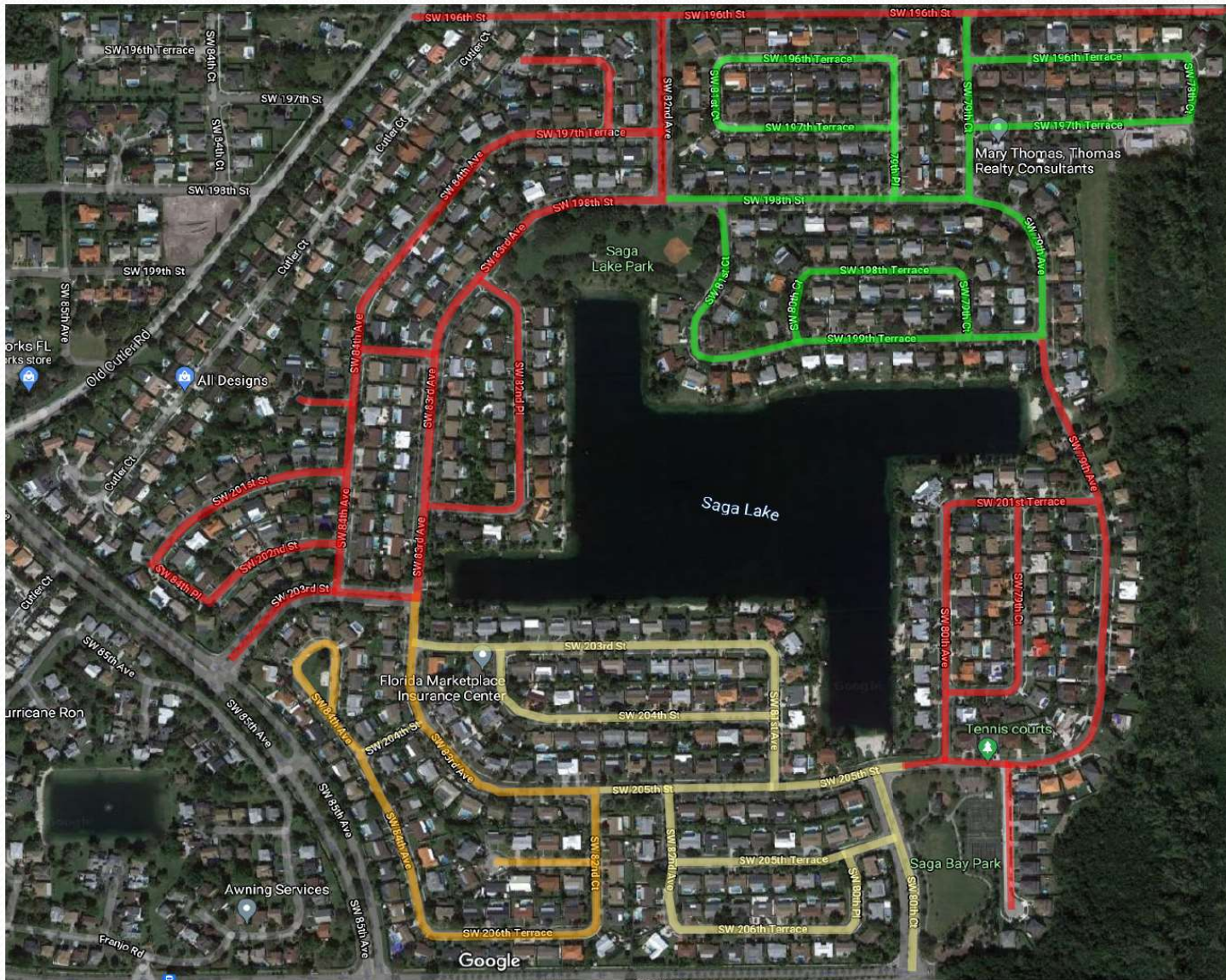
Project Description: The existing drainage infrastructure in the Sub-Basins do not discharge adequate runoff to meet the desired performance criteria adopted in the Town’s Stormwater Master Plan. The capacity of the existing roadside swales and French drains are not sufficient to discharge the volume of runoff and treat pollutants. Based on the CIP recommendations listed in the Town’s Adopted Stormwater Master Plan, the Town will use the requested funding to improve the existing drainage system by, adding supplementary catch basins; replacing some existing catch basins; installing additional supplementary exfiltration trenches and pipes, milling and resurfacing of roadways, and sidewalk repairs. Existing catch basins will be modified to provide sediment traps (sumps) and pollution retardant baffles to protect the French drains. Additional French drains, catch basins, and/or manholes will provide water quality and water quantity treatment

Project Benefits: Reduces potential losses to structures which could be damaged from storm water ponding and prevents hazardous driving conditions for residents.

Status: Project under the planning stage.

Funding source(s): On March 2021, the American Rescue Plan (“ARPA”) of 2021 passed into law, specifically the State and Local Fiscal Recovery Funds (“SLFRF”), which is meant to help towns and cities recover from the COVID-19 pandemic. The ARPA requires that Fiscal Recovery Funds may only be used to cover expenses incurred by the non-entitlement unit of local government by December 31, 2024. As specified in the Treasury Guidance, Eligible Use of Fiscal Recovery Funds allows improvements to stormwater Infrastructure systems. **Allocated \$21,896,320.**

Project #17 – Town-wide water quality improvement projects. Resolution No. 21-80 Kimley Horn & Associates \$423,680.00



Completed

- Saga Bay 1.2
- Saga Bay 1.3
- Saga Bay 1.4

Procurement Phase
(ARPA eligible)

- Saga Bay 1.5

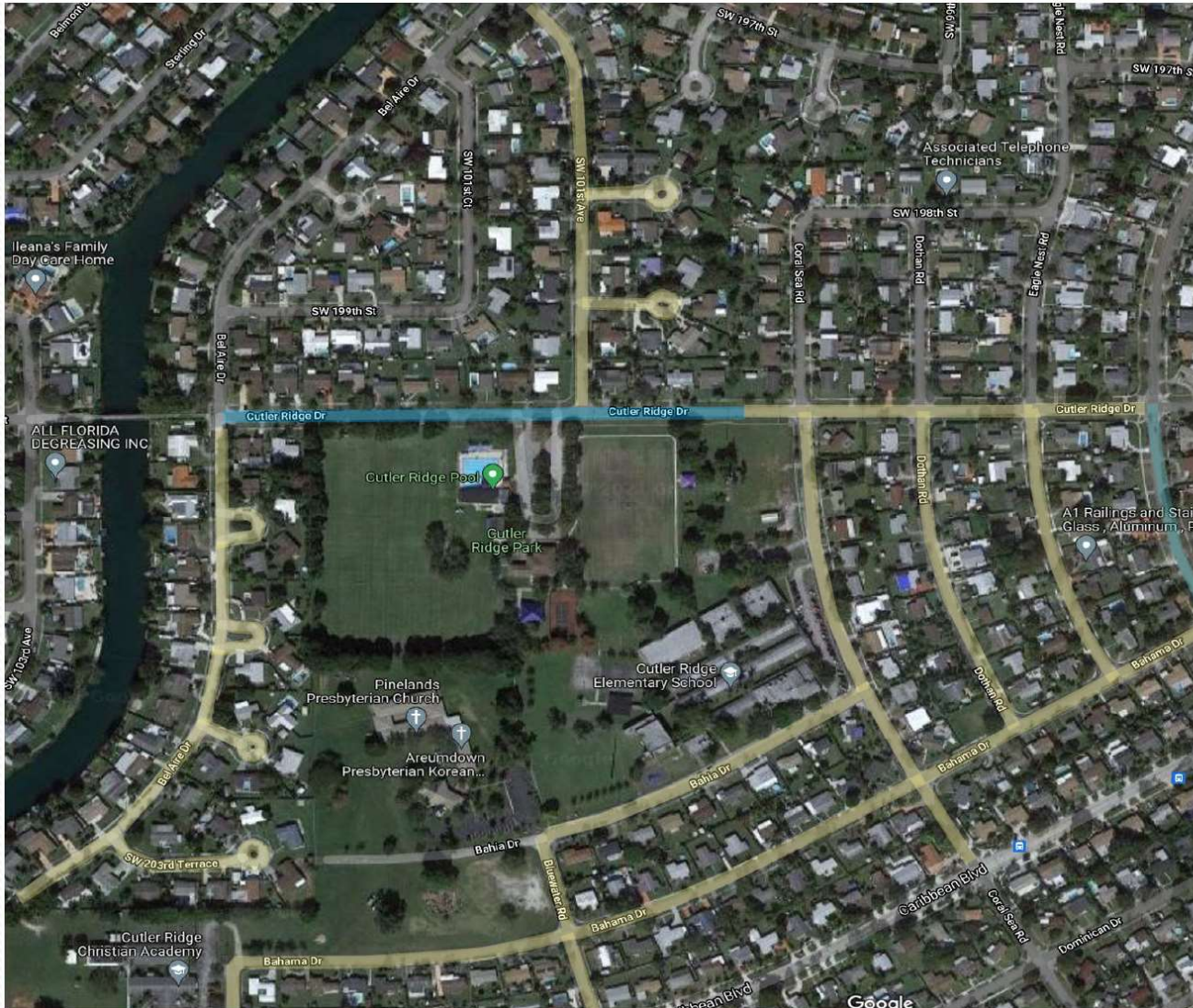
Maggolc Inc
Resolution No. 21-52
Purchase order 2608

- Saga Bay 1.7

Saga Bay Basin Design
(ARPA eligible)
Kimley-Horn & Assoc.
Resolution No. 21-80
Purchase order 2624

- Saga Bay 1.1 East
- Saga Bay 1.1 West
- Saga Bay 1.5 North
- Saga Bay 1.6
- Saga Bay 1.8

Project #17 – Town-wide water quality improvement projects. Resolution No. 21-81 SRS Engineering \$558,333.00



Bel Aire Basin Design

Map 1 of 4

(ARPA eligible)

SRS Engineering Inc.

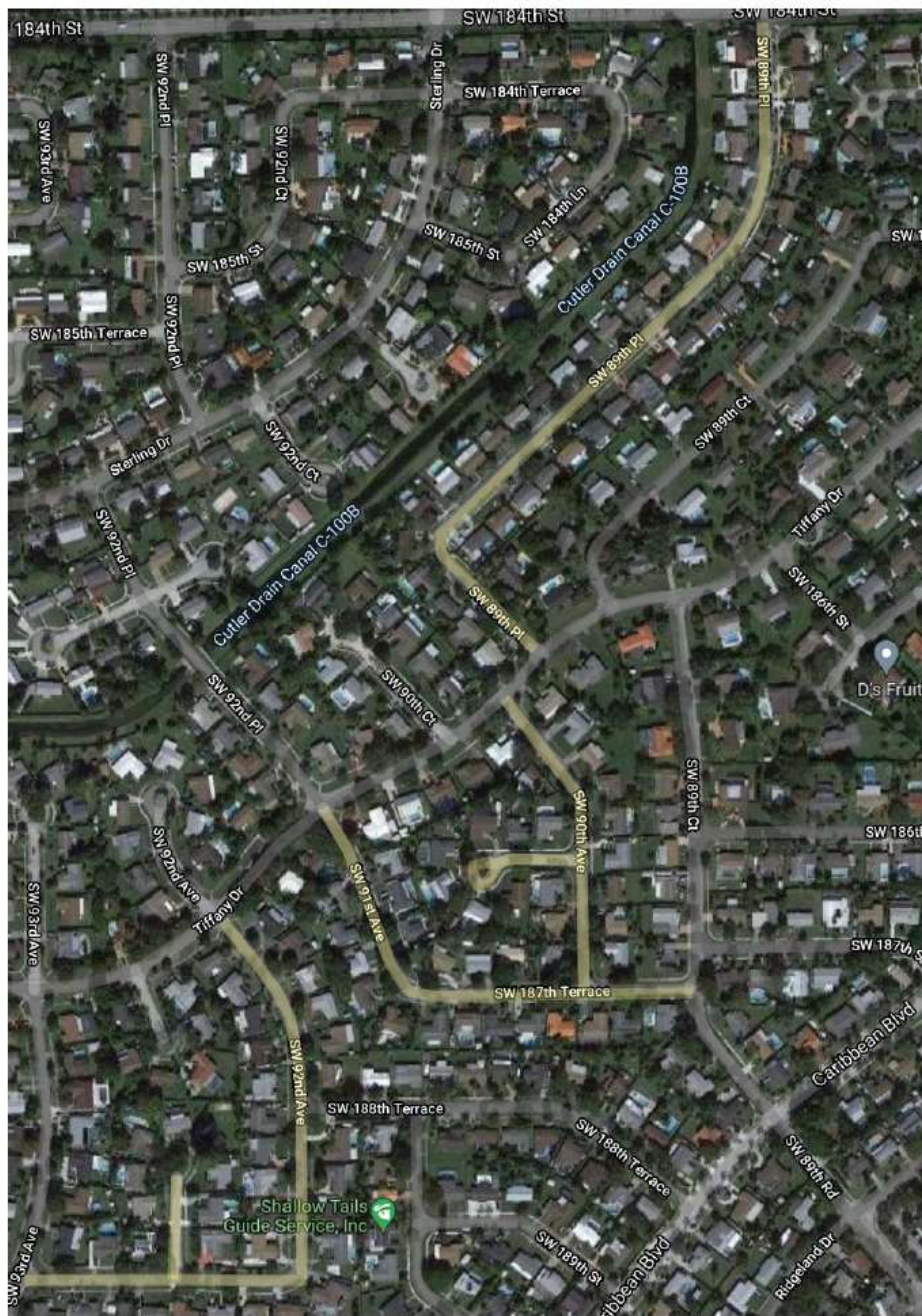
Resolution No. 21-81

Purchase order 2626

 Bel Aire Sec 1.2
Bel Aire Sec 6
(Drainage & Resurfacing)



 Bel Aire Sec 1.2
Bel Aire Sec 6
(Resurfacing Only)

Project #17 –
Town-wide
water quality
improvement
projects.
Resolution No.
21-81 SRS
Engineering
\$558,333.00

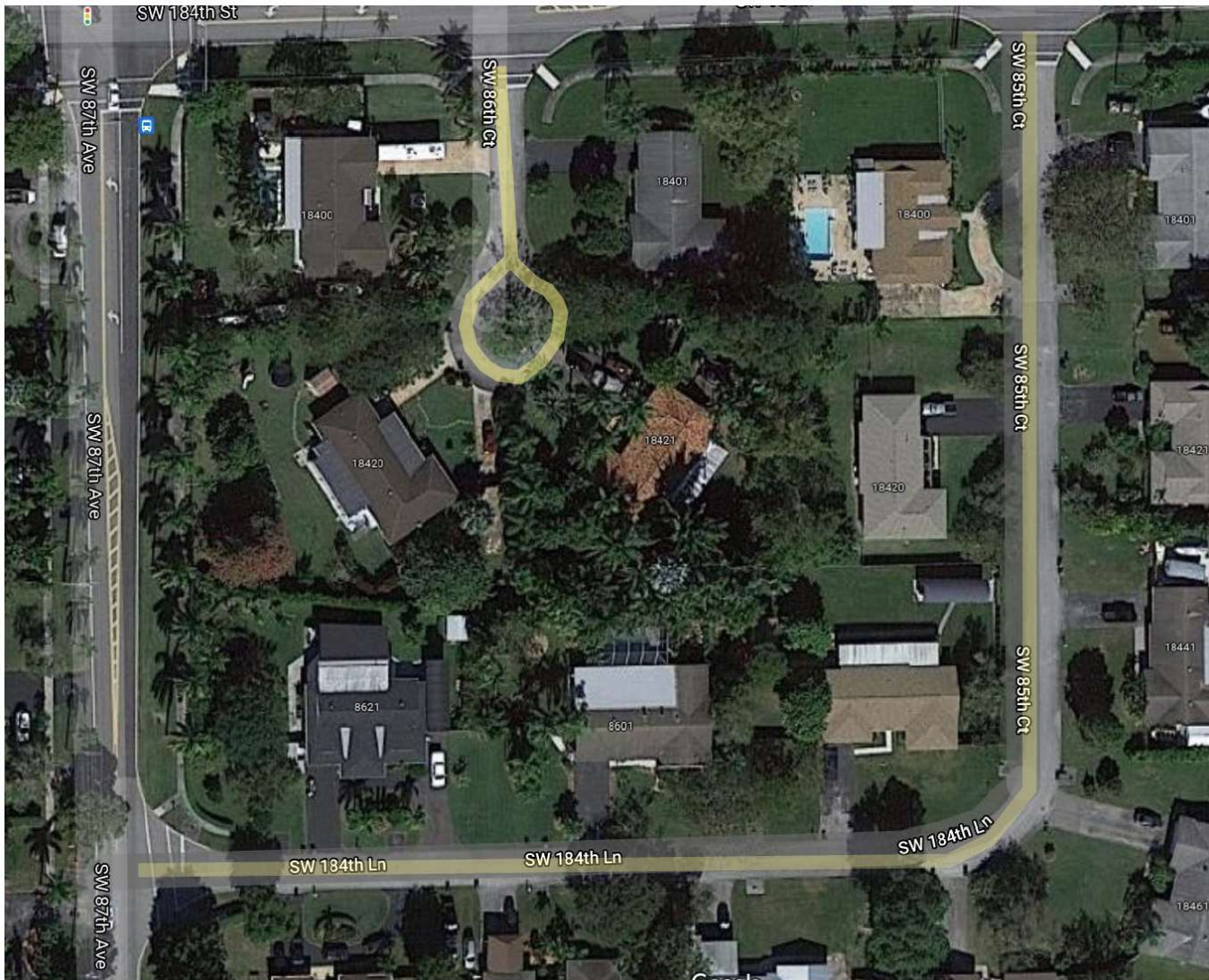


Bel Aire Basin Design Map 2 of 4 (ARPA eligible)

SRS Engineering Inc.
Resolution No. 21-81
Purchase order 2626

-  Bel Aire Sec 12
-  Bel Aire Sec 19

Project #17 – Town-wide water quality improvement projects. Resolution No. 21-81 SRS Engineering \$558,333.00



Bel Aire Basin Design

Map 3 of 4

(ARPA eligible)

SRS Engineering Inc.

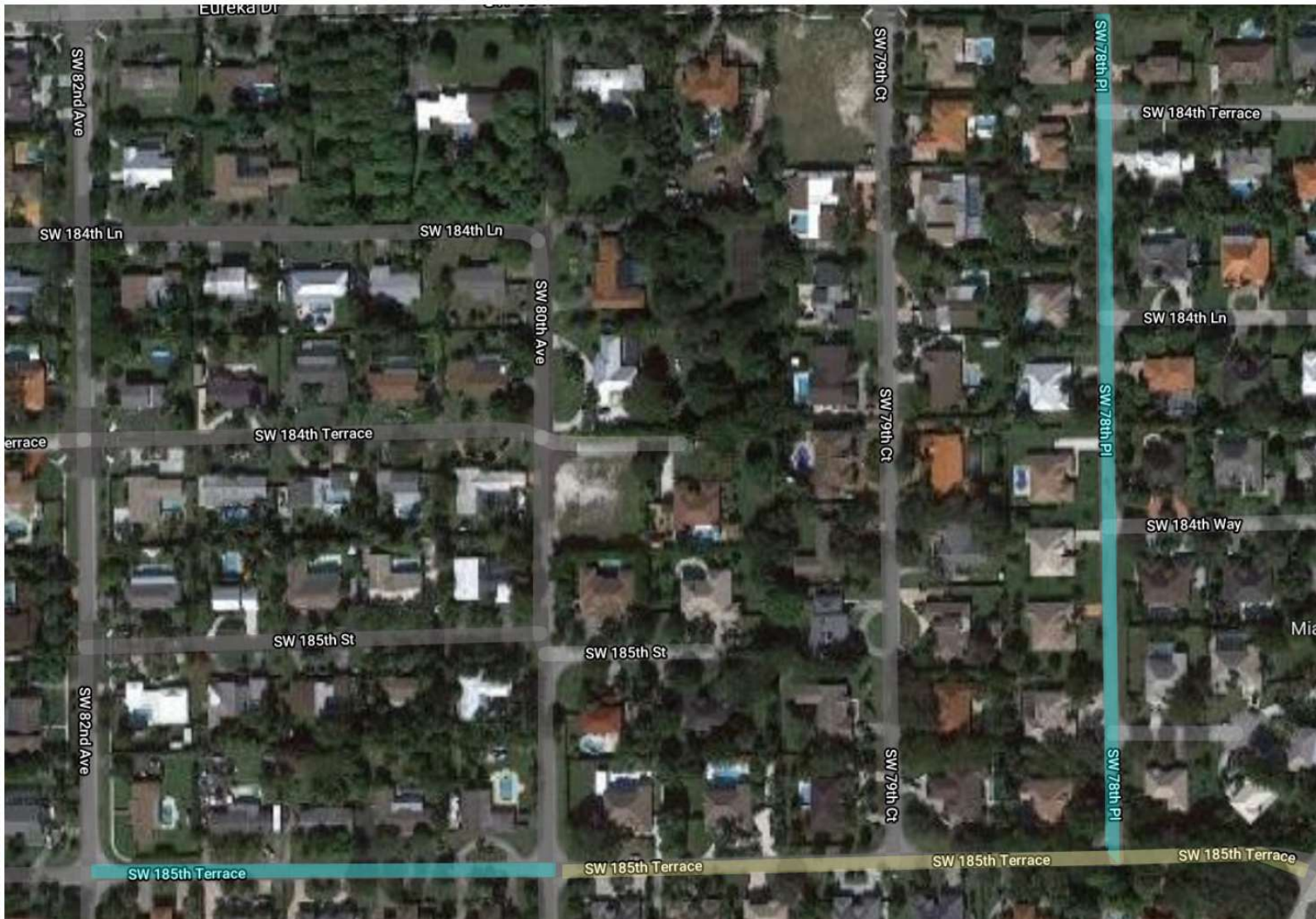
Resolution No. 21-81

Purchase order 2626



Bel Aire Sec 22

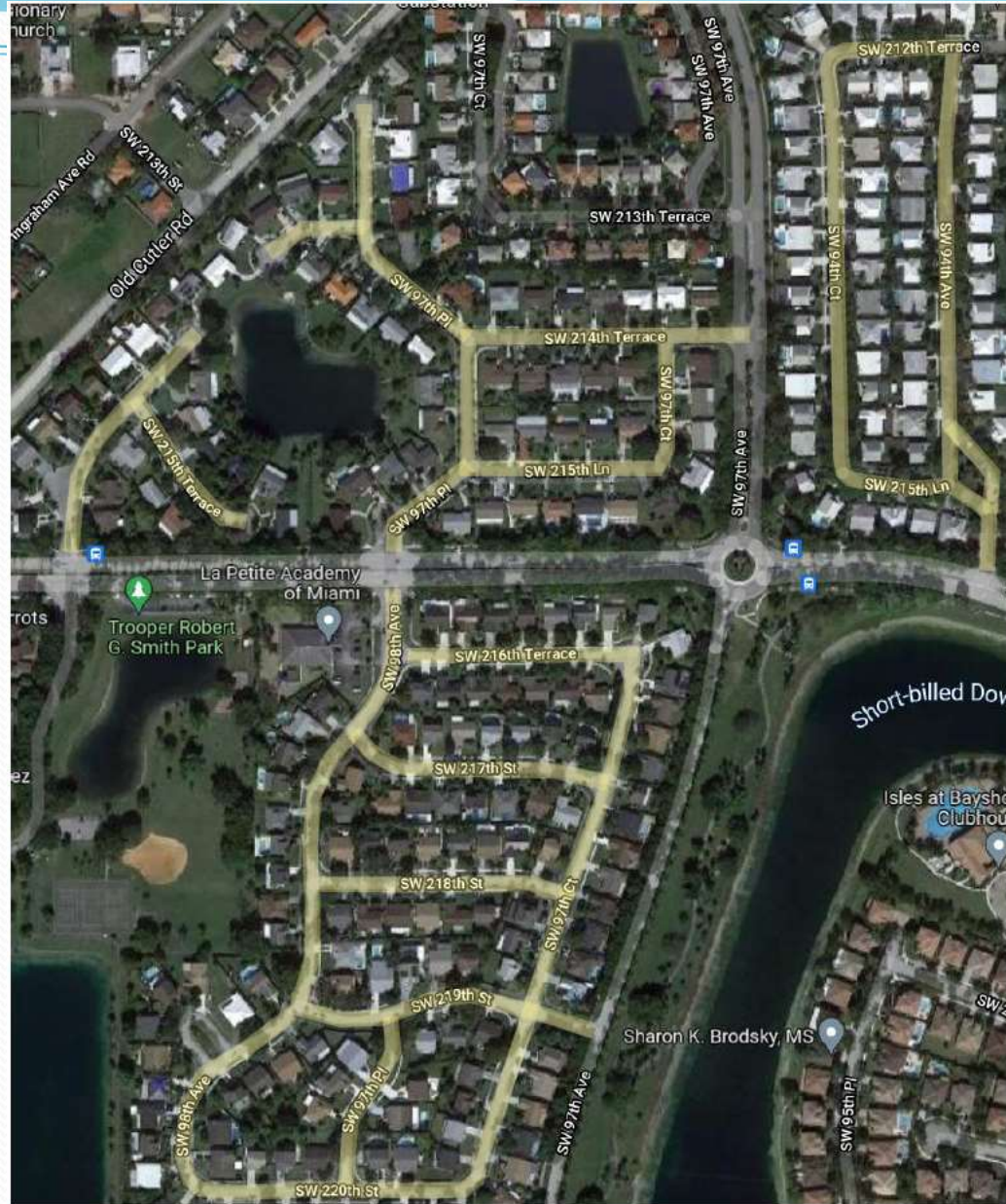
Project #17 – Town-wide water quality improvement projects. Resolution No. 21-81 SRS Engineering \$558,333.00



Bel Aire Basin
Design
Map 4 of 4
(ARPA eligible)
SRS Engineering Inc.
Resolution No. 21-81
Purchase order 2626

-  Eureka Drive ESTS
Allom Estates
(Drainage & Resurfacing)
-  Cutler Country-
Groves 1st Addn
South Grove

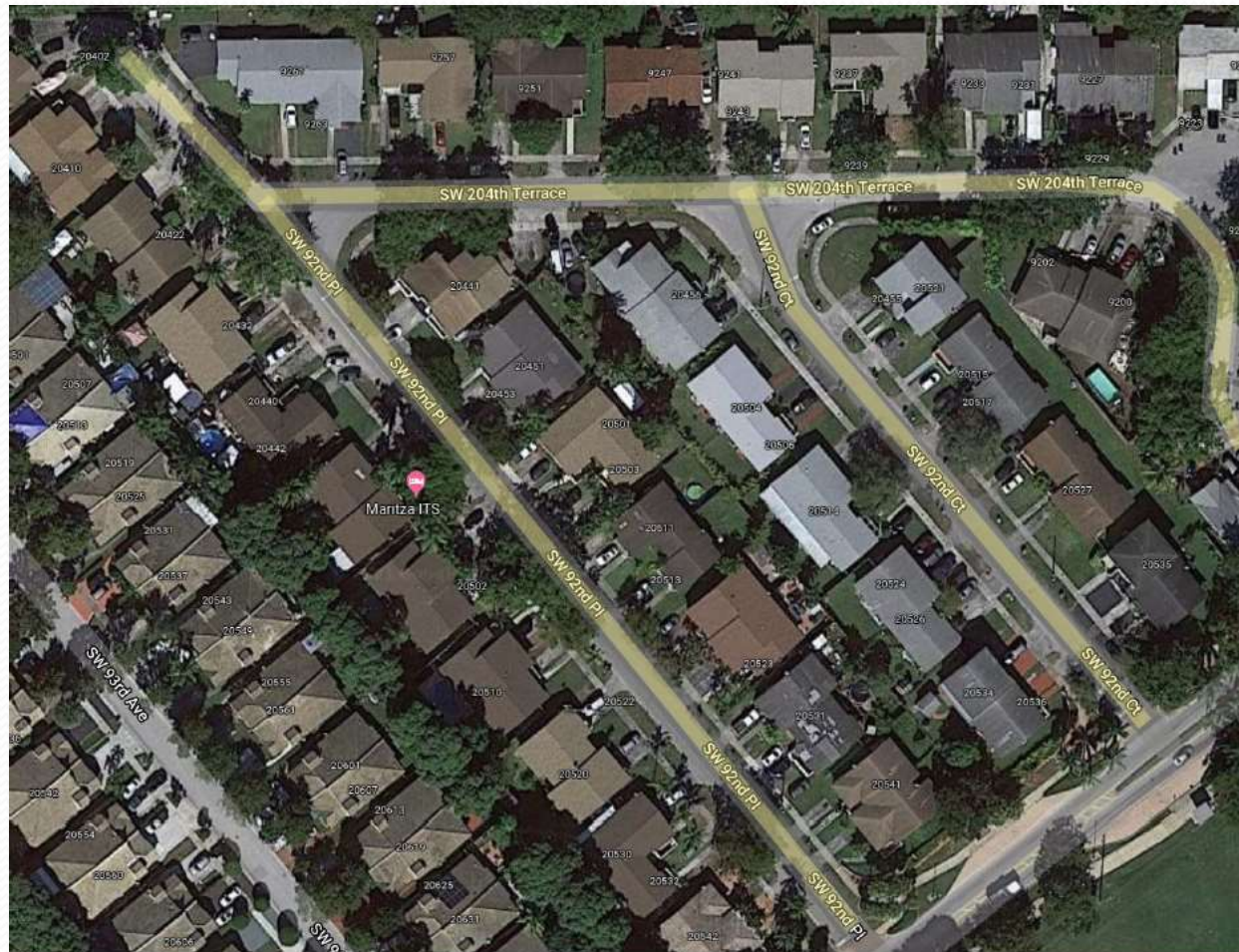
Project #17 –
Town-wide
water quality
improvement
projects.
Resolution No.
21-82 Stantec
\$362,244.00



Lakes by the Bay Basin Design, Map 1 of 2 (ARPA eligible)
Stantec Consulting Services
Resolution No. 21-82
Purchase order 2627

- Lakes by the Bay Sec 4
- Lakes by the Bay Sec 7
- Old Cutler Commons UN 1 & UN 2
- SW 97th Ave Sub-Basin North

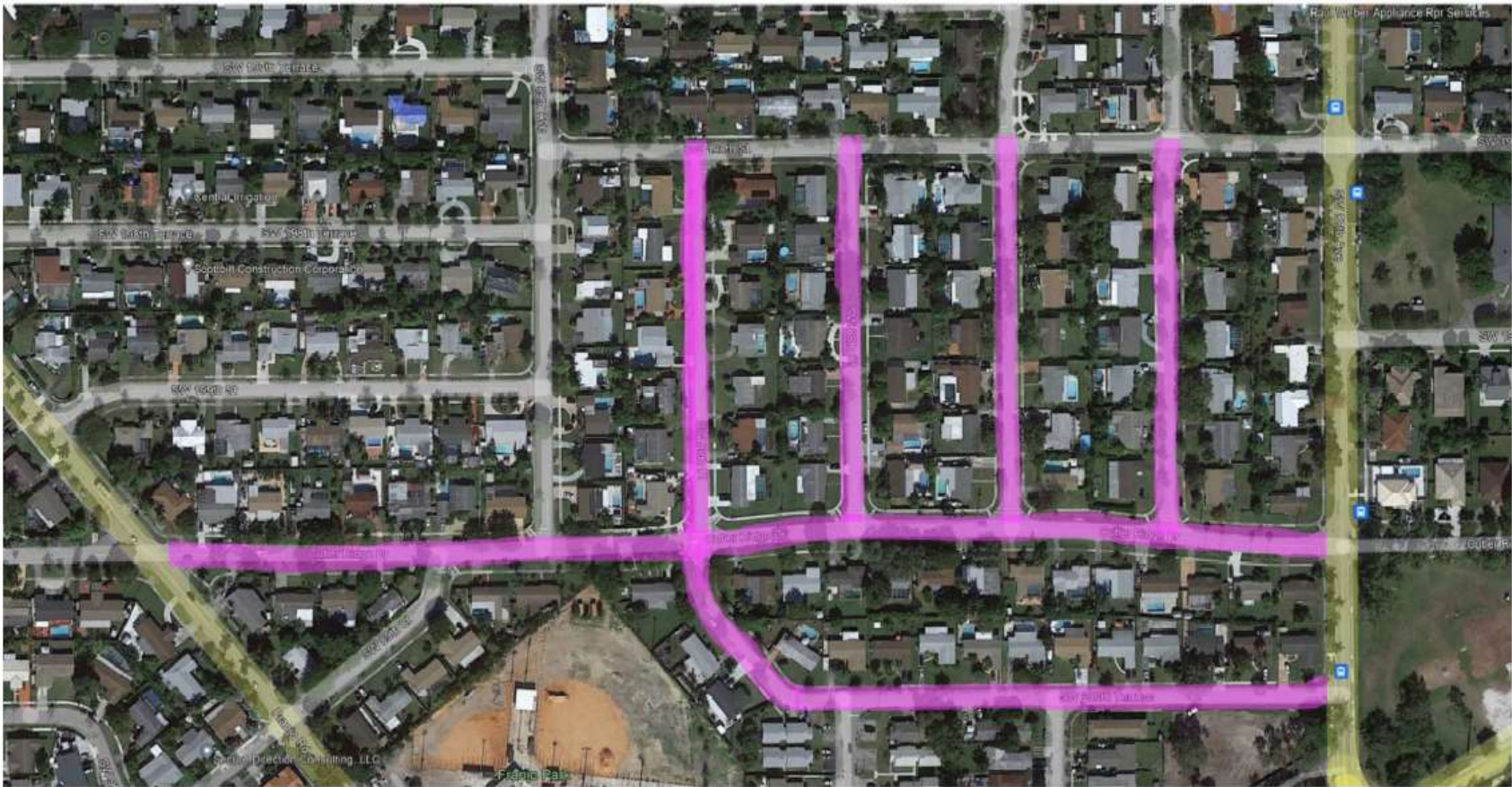
Project #17 – Town-wide water quality improvement projects. Resolution No. 21-82 Stantec \$362,244.00




Lakes by the Bay Basin
Design. Map 2 of 2
(ARPA eligible)
Stantec Consulting Services
Resolution No. 21-82
Purchase order 2627

 J Twin Villas

Project #17 – Town-wide water quality improvement projects. Cutler Ridge Pines - Resolution No. 22-57
SRS Engineering, Inc. \$144,495.00



Legend:  Limits of Topographical Survey

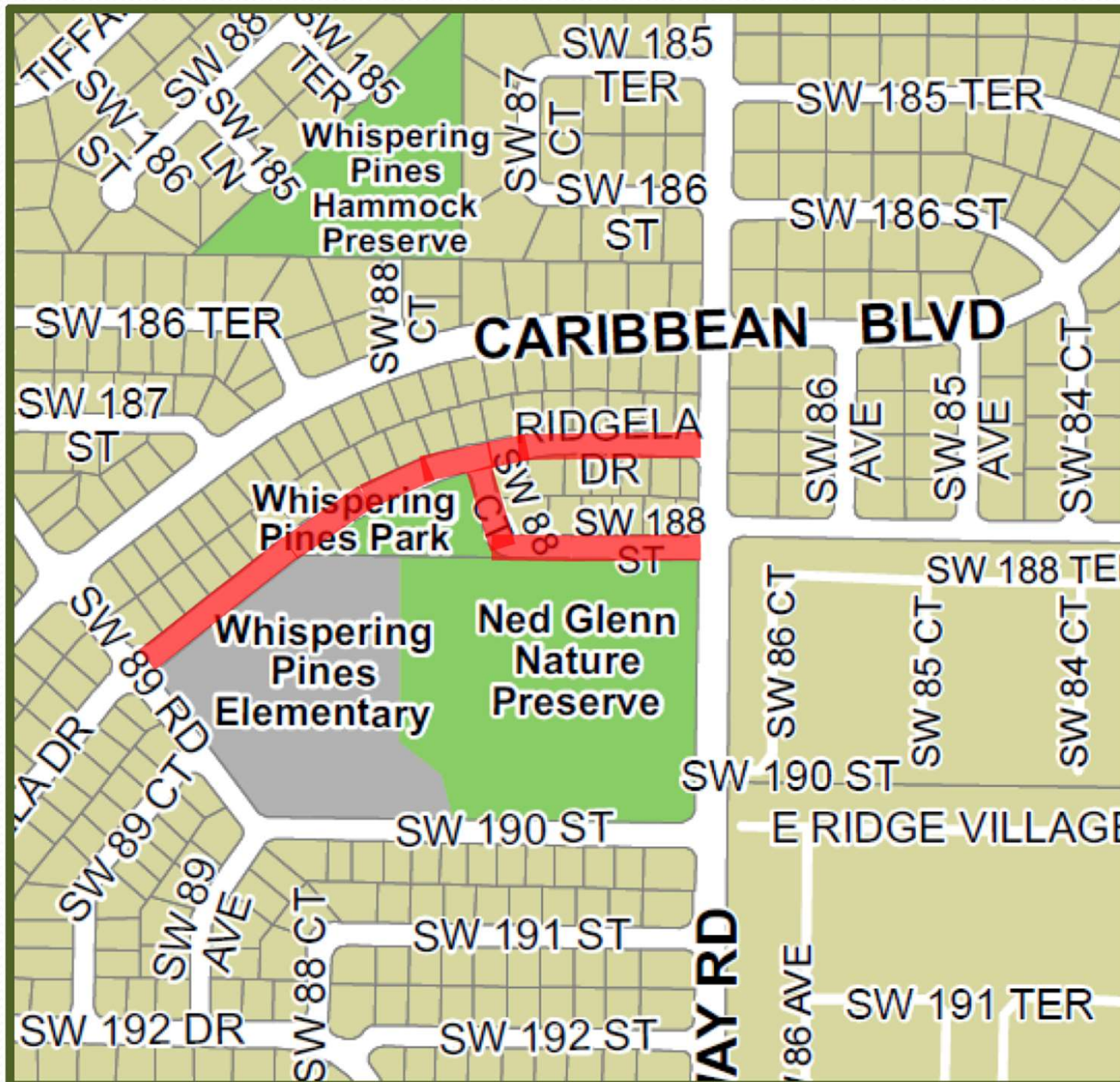
Project #17 – Town-wide water quality improvement projects. S.W. 207 Street & S.W. 85 Avenue Corridors - Resolution No. 21-64 Kimley-Horn and Associates, Inc. \$129,190.00



Project #18 – Whispering Pines Park Pervious Turf Block and Drainage Improvements Project

- ***Project Description:*** Mitigate/reduce flooding along the Whispering Pines Park Perimeter
- ***Project Benefits:*** Reduces potential losses to buildings which could be damaged from inadequate drainage within roadways
- ***Status:*** The project design has been 100% percent completed. ITB 23-06 Whispering Pines Park Pervious Turf Block and Drainage Improvements Project was advertised on March 17, 2023. Coreland Construction was issued an NTP to begin work on July 5, 2023. **The project is 100% complete.**

Project #18 – Whispering Pines Park Pervious Turf Block and Drainage Improvements Project



Project #18 – Whispering Pines Park Pervious Turf Block and Drainage Improvements Project



Project #18 – Whispering Pines Park Pervious Turf Block and Drainage Improvements Project



Project #19 – Cutler Bay Comprehensive Vulnerability Assessment and Adaptation Plan

- ***Project Description:*** Assessment which will explore climate threats, assemble data on community assets, assess vulnerabilities, and risks, and investigate potential adaptation strategies.
- ***Project Benefits:*** Provide recommendations for potentially affected critical assets thus increasing the Towns resiliency
- ***Status:*** Project was approved via Resolution 23-43.

Funding source: Florida Department of Environmental Protection Grant \$125,000.

Project #19 – Cutler Bay Comprehensive Vulnerability Assessment and Adaptation Plan

- *Task 1 – Kick Off Meeting (steering committee)*
- *Task 2 – Public Outreach Meeting*
- *Task 3 – Acquire Background Data*
- *Task 4 – Exposure Analysis*
- *Task 5 – Sensitivity Analysis*
- *Task 6 – Public Outreach Meeting*
- *Task 7 – Identify Focus Area*
- *Task 8 – Final Vulnerability Assessments Report, Maps Tables.*
- *Task 9 – Public Presentation*
- *Task 10- Adaptation Plan*

Project #19 – Cutler Bay Comprehensive Vulnerability Assessment and Adaptation Plan



CONGRATULATIONS!!!!

The Town of Cutler Bay has achieved receiving a CRS
Class 3 Rating effective April 1, 2023

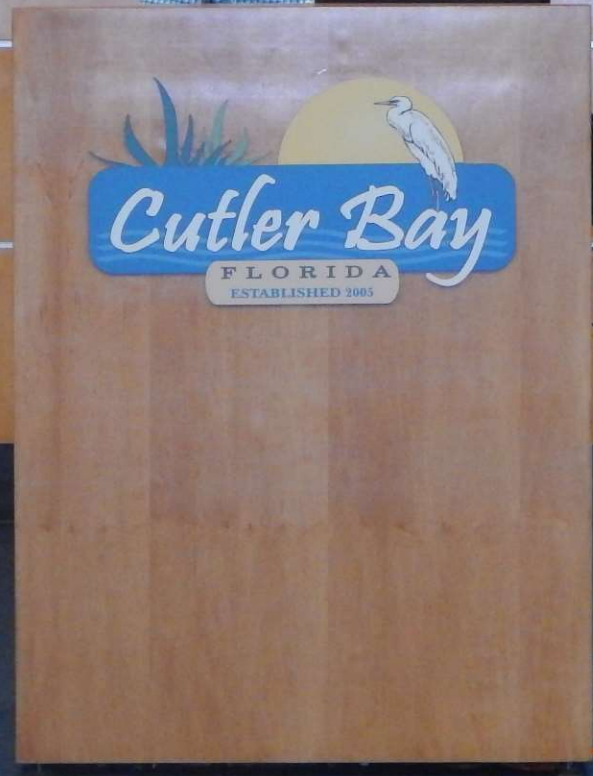


CONGRATULATIONS!!!!

The Town of Cutler Bay has achieved receiving a CRS
Class 3 Rating effective April 1, 2023







Town Attorney
Michael A. Brennan

Councilmember
Walter Scott Mitchell

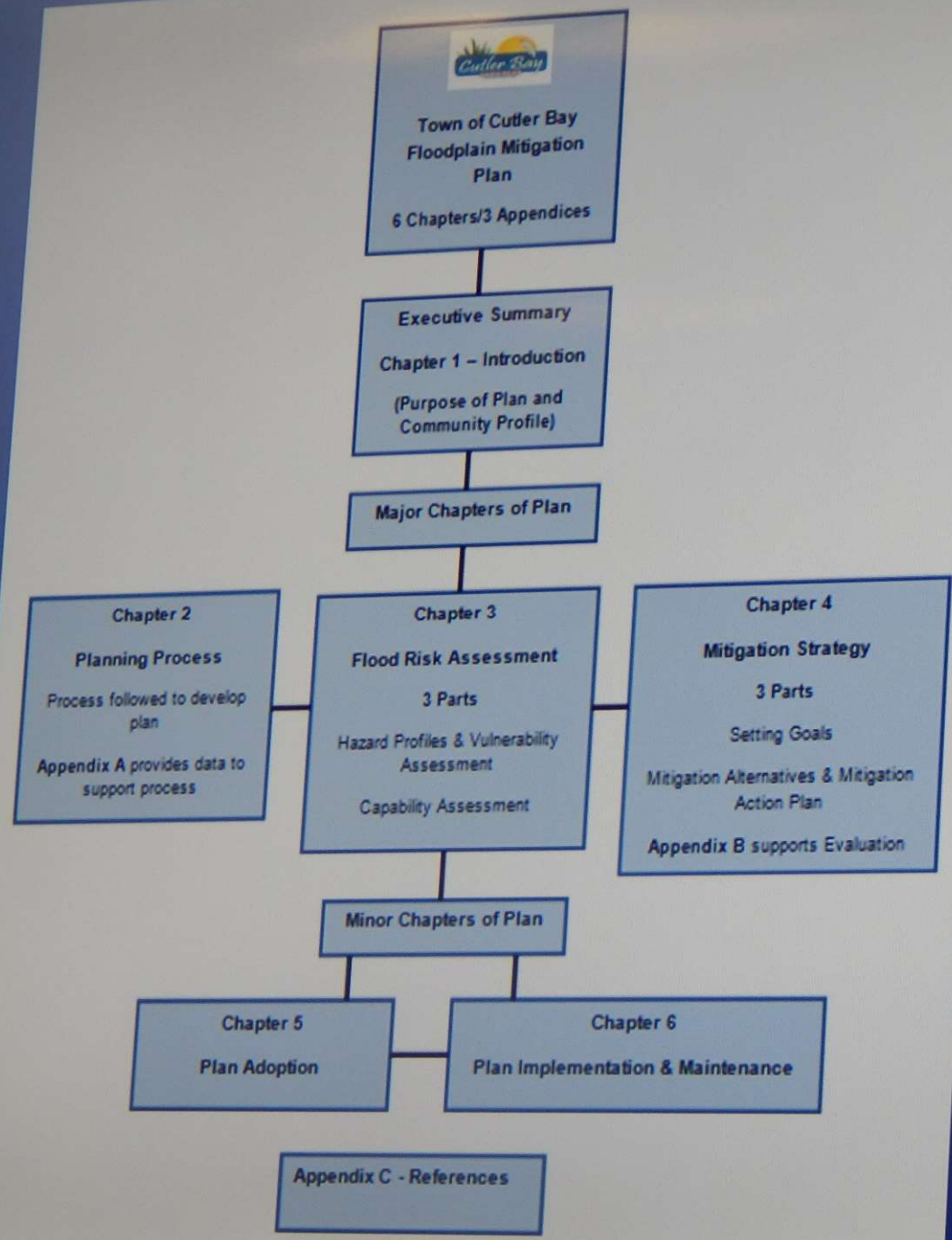
Councilmember

Mayor

Vice Mayor


Councilmember
Sue Ellen Longenecker









wood. 
Town of Cutler Bay, Florida
CRS Activity 540 Stormwater Management
P&P Meeting, October 23rd, 2018

TOWN OF CUTLER BAY
WATERSHED MASTER PLAN



Florida's NFIP State Coordinating Office Regional Engagement Community Assistance Visit



PLENARY AND COMMUNITY ASSISTANCE VISIT REPORT

Town of Cutler Bay, Florida

May 20, 2019

These 16 communities participated in the Plenary session and Concurrent CAV meetings:

City of Coral Gables	Village of Key Biscayne	City of Miami Springs	Village of Virginia Gardens
Town of Cutler Bay	Town of Medley	Village of Palmetto Bay	
City of Doral	City of Miami	Village of Pinecrest	
Village of El Portal	Miami-Dade County	City of South Miami	
City of Homestead	City of Miami Beach	City of Sweetwater	

State Floodplain Management Office
Bureau of Mitigation
Florida Division of Emergency Management



COMMUNITY
RATING
SYSTEM

VERIFICATION
REPORT

Town of Cutler Bay, FL

NFIP Number: 120218

Date of Verification Visit: May 9, 2019

Verified Class 4

Modification

This Verification Report is provided to explain the recommendations of Insurance Services Office, Inc. (ISO) to DHS/FEMA concerning credits under the Community Rating System (CRS) for the above named community. The modified activity elements are shown in bold text within the activity statement.

A total of 139 credit points are verified for this modification. Along with the 3054 points previously verified, the community now has a total of 3193 credit points. This modification results in a recommendation that the community improve from a CRS Class 5 to a CRS Class 4. The community has met the Class 4 prerequisite. See Attachment for Class 4 Prerequisite summary. The following is a summary of our findings based on the submitted modification with the total modified points noted in parenthesis:

Activity 310 – Elevation Certificates: The Town of Cutler Bay's Building Division maintains elevation certificates for new and substantially improved buildings. Copies of elevation certificates are made available upon request. Elevation certificates are also kept for post-FIRM buildings. (39 points)

Activity 320 – Map Information Service: Credit is provided for furnishing inquirers with basic flood zone information from the community's latest Flood Insurance Rate Map (FIRM). Credit is also provided for the community furnishing additional FIRM information, information about problems not shown on the FIRM, and historical flood information. (90 points)

Activity 330 – Outreach Projects: Credit is provided for informational outreach projects that include, general outreach projects, and targeted outreach projects. These projects are disseminated annually. Credit is also provided for having a pre-flood plan for public information. Credit is enhanced by having a Program for Public Information (PPI), and by having the information disseminated by stakeholders outside the local government. (332 points)

Activity 340 – Hazard Disclosure: Credit is provided for state regulations requiring disclosure of flood hazards. (10 points)

Activity 350 – Flood Protection Information: Documents relating to floodplain management are available in the reference section of the Miami-Dade County Public



COMMUNITY
RATING
SYSTEM

VERIFICATION
REPORT

Town of Cutler Bay, FL

NFIP Number: 120218

Date of Verification Visit: October 6, 2021

Verified Class 3

Cycle-Phone Verification

This Verification Report is provided to explain the recommendations of Insurance Services Office, Inc. (ISO) to DHS/FEMA concerning credits under the Community Rating System (CRS) for the above named community.

A total of 3556 credit points are verified which results in a recommendation that the community improve from a CRS Class 4 to a CRS Class 3. The community has met all Class 3 prerequisites. Please see Attachment A, Class 3 prerequisite information at the end of this report. The following is a summary of our findings with the total CRS credit points for each activity listed in parenthesis:

Activity 310 – Construction Certificate Management: Credit is provided for having written construction certificate management procedures for all new and substantially improved/substantially damaged buildings. (38 points)

Activity 320 – Map Information Service: Credit is provided for furnishing inquirers with basic flood zone information from the community's latest Flood Insurance Rate Map (FIRM). Credit is also provided for the community offering information about problems not shown on the FIRM, and historical flood information. The service is publicized annually and records are maintained. (70 points)

Activity 330 – Outreach Projects: Credit is provided for informational outreach projects, general outreach projects, and targeted outreach projects. These projects are disseminated annually. Credit is also provided for having a pre-flood plan for public information. Credit is enhanced by having a Program for Public Information (PPI) and by having the information disseminated by stakeholders outside the local government. A progress report for the PPI must be submitted on an annual basis. (350 points)

Activity 340 – Hazard Disclosure: Credit is provided for community and state regulations requiring disclosure of flood hazards. (15 points)

Activity 350 – Flood Protection Information: Documents relating to floodplain management are available in the reference section of the Miami-Dade County Library. Credit is also provided for floodplain information displayed on the community's website. Credit is enhanced by having a PPI. (98 points)

Library. Credit is also provided for floodplain information displayed on the community's website. Credit is enhanced by having a PPI. (106 points)

Town of Cutler Bay, FL
NFIP #: 120218

Page 2

Activity 360 – Flood Protection Assistance: Credit is provided for offering one-on-one advice regarding property protection and making site visits before providing advice. Credit is also provided for giving advice on financial assistance programs and advisor training at appropriate EMI courses. Credit is enhanced by having a PPI. (85 points)

Activity 420 – Open Space Preservation: Credit is provided for preserving approximately 44 percent of the Special Flood Hazard Area (SFHA) as open space and preserving open space land in a natural state. Credit is also provided for regulations and incentives that minimize development in the SFHA. (776 points)

Activity 430 – Higher Regulatory Standards: Credit is provided for enforcing regulations that require freeboard for new and substantial improvement construction, cumulative substantial improvement, lower substantial improvement, protection of critical facilities, enclosure limits, and local drainage protection. Credit is also provided for the enforcement of building codes, a BCEGS Classification of 3/2, other higher standards, state mandated regulatory standards, and regulations administration. (453 points)

Activity 440 – Flood Data Maintenance: Credit is provided for maintaining and using digitized maps in the day to day management of the floodplain. Credit is also provided for establishing and maintaining a system of benchmarks and maintaining copies of all previous Flood Insurance Rate Maps and Flood Insurance Study Reports. (150 points)

Activity 450 – Stormwater Management: The community enforces regulations for stormwater management, low impact development, soil and erosion control, and water quality. Credit is also provided for watershed master planning. (174 points)

Section 502 – Repetitive Loss Category: Based on the updates made to the NFIP Report of Repetitive Losses as of May 31, 2016, the Town of Cutler Bay, FL has 32 repetitive loss properties and is a Category B community for CRS purposes. The community is required to submit either a Repetitive Loss Area Analysis or Floodplain Management Plan. (No credit points are applicable to this section)

Activity 510 – Floodplain Management Planning: Credit is provided for the adoption and implementation of the Town of Cutler Bay, Florida Floodplain Management Plan May 2015 adopted on May 1, 2016. A progress report must be submitted on an annual basis. An update to the credited plan will be due by October 1, 2021. Credit is also provided for the adoption and implementation of a Natural Floodplains Functions Plan. (384 points)

Town of Cutler Bay, FL
NFIP #: 120218

Page 2

Activity 360 – Flood Protection Assistance: Credit is provided for offering one-on-one advice regarding property protection and making site visits before providing advice. The service is publicized annually and records are maintained. Credit is enhanced by having a PPI. (85 points)

Activity 370 – Flood Insurance Promotion: Credit is provided for assessing the community's current level of flood insurance coverage. (15 points)

Activity 420 – Open Space Preservation: Credit is provided for preserving approximately 44 percent of the Special Flood Hazard Area (SFHA) as open space and preserving open space land in a natural state. Credit is also provided for regulations and incentives that minimize development in the SFHA. (791 points)

Activity 430 – Higher Regulatory Standards: Credit is provided for enforcing regulations that require freeboard for new construction and substantial improvement, foundation protection, cumulative substantial improvement, lower substantial improvement, protection of critical facilities, enclosure limits and local drainage protection. Credit is also provided for the enforcement of building codes, a Building Code Effectiveness Grading Schedule (BCEGS®) Classification and regulations administration. (443 points)

Activity 440 – Flood Data Maintenance: Credit is provided for maintaining and using additional map data in the day to day management of the floodplain. Credit is also provided for establishing and maintaining a system of benchmarks and maintaining copies of all previous FIRMs and Flood Insurance Study reports. (215 points)

Activity 450 – Stormwater Management: The community enforces regulations for stormwater management and soil and erosion control. Credit is also provided for watershed master planning. (297 points)

Section 502 – Repetitive Loss Category: Based on the updates made to the NFIP Report of Repetitive Losses as of January 20, 2018, the Town of Cutler Bay, FL has 32 repetitive loss properties and is a Category B community for CRS purposes. All requirements for a Category B community have been met. (No credit points are applicable to this section)

Activity 510 – Floodplain Management Planning: Credit is provided for the Town of Cutler Bay FL Flood Mitigation Plan, adopted on November 17, 2021, and for conducting a repetitive loss area analysis. A progress report for each plan must be submitted on an annual basis. (509 points)

Activity 540 – Drainage System Maintenance: All of the community's drainage system is inspected regularly throughout the year and maintenance is performed as needed. Credit is also provided for listing problem sites that are inspected more frequently, and for implementing an ongoing Capital Improvements Program. The community enforces a regulation prohibiting dumping in the drainage system, and annually publicizes the regulation or has appropriate signs posted. (345 points)

Activity 610 – Flood Warning and Response: Credit is provided for a program that provides timely identification of impending flood threats, disseminates warnings to appropriate floodplain residents, and coordinates flood response activities. (249 points)

Activity 710 – County Growth Adjustment: All credit in the 400 series is multiplied by the growth rate of the county to account for growth pressures. The growth rate for Miami-Dade County, FL is 1.07.

Attached is the Community Calculations Worksheet that lists the verified credit points for the Community Rating System.

CEO Name / Address:

Rafael Casals
Town Manager
10720 Caribbean Boulevard, Suite 105
Cutler Bay, Florida 33189

CRS Coordinator Name / Address:

Alfredo Quintero Jr.
Public Works Director
10720 Caribbean Boulevard, Suite 105
Cutler Bay, Florida 33189
(305) 234-4262

Date Report Prepared: May 9, 2019

Activity 540 – Drainage System Maintenance: Credit is provided for the regular inspection and maintenance of the community's natural drainage system, identified problem sites, and storage basins and records are maintained. Credit is provided for implementing an ongoing Capital Improvements Program. The community enforces a regulation prohibiting dumping in the drainage system and annually publicizes the regulation. Credit is enhanced by having a PPI. (400 points)

Activity 610 – Flood Warning and Response: Credit is provided for a program that provides timely identification of impending flood threats, disseminates warnings to appropriate floodplain residents, and coordinates flood response activities. A description of the flood exercise or After Action Report from an actual flood event must be submitted on an annual basis. Warning information and safety measures must be publicized annually. (230 points)

Activity 710 – County Growth Adjustment: All credit in the 400 series is multiplied by the growth rate of the county to account for growth pressures. The growth rate for Miami-Dade County, FL is 1.08.

Attached is the Community Calculations Worksheet that lists the verified credit points for the Community Rating System.

CEO Name / Address:

Rafael Casals
Town Manager
10720 Caribbean Boulevard, Suite 105
Cutler Bay, Florida 33189

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Public Works Director
10720 Caribbean Boulevard, Suite 105
Cutler Bay, Florida 33189
(305) 234-4262

Date Report Prepared: March 2, 2022

State Requirements and the Road to a CLASS 2

- *Market value* means the price at which a property will change hands between a willing buyer and a willing seller, neither party being under compulsion to buy or sell and both having reasonable knowledge of relevant facts. As used in this chapter, the term refers to the market value of buildings and structures, excluding the land and other improvements on the parcel. Market value may be established by a qualified independent appraiser, is the actual cash value (in-kind replacement cost depreciated for age, wear and tear, neglect, and quality of construction), determined by a qualified independent appraiser, or tax assessment value adjusted to approximate market value by a factor provided by the county property appraiser.
- *Substantial damage* means damage of any origin sustained by a building or structure whereby the cost of restoring the building or structure to its before-damaged condition would equal or exceed 44-49 percent of the market value of the building or structure before the damage occurred. The term also includes flood-related damage sustained by a structure on two separate occasions during a ten-year period for which the cost of repairs at the time of each such flood event, on average, equals or exceeds 25 percent of the market value of the structure before the damage occurred.
- *Substantial improvement* means any combination of repair, reconstruction, rehabilitation, alteration, addition, or other improvement of a building or structure taking place during a five-year one-year period, the cumulative cost of which equals or exceeds 44-49 percent of the market value of the building or structure before the improvement or repair is started. The period of accumulation begins when the first improvement or repair of each building or structure is permitted subsequent to February 18, 2009. If the structure has incurred "substantial damage," any repairs are considered substantial improvement regardless of the actual repair work performed. The term does not, however, include either:
 - (1) Any project for improvement of a building required to correct existing health, sanitary, or safety code violations identified by the building official and that are the minimum necessary to assure safe living conditions.
 - (2) Any alteration of a historic structure provided the alteration will not preclude the structure's continued designation as a historic structure

State Requirements and the Road to a CLASS 2

Sec. 18-94. - Detached accessory structures.

Detached accessory structures shall be used only for storage accessory to the primary structures and shall be anchored to resist wind and flood loads. Accessory structures shall:

- (1) In zone A/AE flood hazard areas, meet the flood opening requirements of R322.2. If located in special flood hazard areas (Zone A/AE) other than coastal high hazard areas, are one-story and not larger than 600 sq. ft. and have flood openings in accordance with Section R322.2 of the Florida Building Code, Residential.
- (2) In coastal high hazard areas (zone V) and coastal A zone, are not located below elevated buildings and are not larger than 100 sq. ft. and meet the breakaway wall requirements of R322.3.
- (3) Have flood damage-resistant materials used below the base flood elevation plus one (1) foot.
- (4) Have mechanical, plumbing and electrical systems, including plumbing fixtures, elevated to or above the base flood elevation plus one (1) foot.

State Requirements and the Road to a CLASS 2



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Sec. 18-95. – Enclosure Limits.

For building applications for enclosed areas under elevated buildings shall be accompanied by a non-conversion agreement which is required to be recorded with the property (deed) so that the restrictions run with the land and future owners must comply with the requirement.



(a) Not have the interior portion partitioned or finished into separate rooms.

(b) Have an inspection (1) time per year to make sure the area below the elevated floor is not converted into livable space.

State Requirements and the Road to a CLASS 2

Sec. 18-122. – Manufactured homes.

Manufactured homes, defined in 15C-1.0101,

F.A.C., are not allowed in the city.



State Requirements and the Road to a CLASS 2

Hazardous substance means any substance that is flammable, radioactive, toxic, or explosive, and that in times of flooding could be released in sufficient quantities to be harmful to humans, animals, or plant life.

Sec. 18-148. – Storage of Hazardous Substances.

No person shall store a hazardous substance at within the area of the Special Flood Hazard Area (SFHA) except for the storage of fuel in existing and replacement underground tanks in existing fueling service stations and service garages, which tanks are designed to prevent infiltration and discharge into floodwaters, and which are adequately anchored and shielded against rupture. For purposes of this paragraph, existing means in place and in use on September 1, 2024.



Questions?

Please contact the Public Works Department at (305)234-4262 or by email at the following:

Alfredo Quintero, Public Works Director

aquintero@cutlerbay-fl.gov

Yenier Vega, Stormwater Utility Manager

yvega@cutlerbay-fl.gov

Cassandra Silva, Administrative Coordinator

csilva@cutlerbay-fl.gov