



TOWN OF CUTLER BAY

2018-06

State Legislative Session Funding Request(s)

PROJECT:

**Cutler Ridge Section 3
Drainage Improvement**





Office of the Town Manager

Rafael G. Casals, CFM
Town Manager

Cutler Ridge Section 3 Drainage Improvement Project

Amount Requested: \$300,000 30%)

Match funding available: \$715,160 (70%)

Total Project Cost: \$1,015,160

Contact Person: Rafael G. Casals, Town Manager
Town of Cutler Bay
10720 Caribbean Blvd., Suite 105
Cutler Bay, Florida 33189
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Email: rcasals@cutlerbay-fl.gov

Project Abstract:

The Town of Cutler Bay is requesting \$300,000 to install approximately 2,400 linear feet new drainage system in one of the Town's oldest residential neighborhoods on Town owned and maintained roadways. The boundaries for the "Cutler Ridge Section 8 Drainage Improvement" project include (See Appendix "A"):

- Montego Bay Drive, from Anchor Road to Coral Sea Road
- Nicaragua Drive, from Anchor Road to Coral Sea Road
- Coral Sea Road, from Montego Bay Drive to Nicaragua Drive; at *Gulfstream Elementary School*
- Condado Road, from Montego Bay Drive to Nicaragua Drive
- Anchor Road, from Montego Bay Drive to Nicaragua Drive
- Puerto Rico Drive, from SW 103 Court to Anchor Road

The Town will implement best management practices during the project to include; installation of a 2,400 LF exfiltration trench (36" Diameter), and new catch basins. Following drainage installation, the identified streets will be paved, including pavement markings and signage. No residents will be displaced as a result these activities.

Estimated Project Cost and Town Leverage: The Total estimated construction cost for this project is \$1,015,160. The Town is requesting \$300,000 from the State of Florida Legislative Appropriation to serve the met need of installing new drainage and restoring the roadways once completed. The Town will fund any amount above \$300,000 in

addition to non-construction costs (planning, design, and grant administration) from a combination of Stormwater Utility Fees and Miami-Dade People's Transportation Plan (PTP) Dollars. The estimated project timeline is eighteen (18) months;

| Activity | Timeline |
|--|------------------------------------|
| Phase I: Planning, Design and Permitting | October 1, 2018 - March 31, 2019 |
| Phase II: Construction Bidding and Contractor Selection | April 1, 2019 -July 31, 2019 |
| Phase III: Construction | August 1, 2019 - February 28, 2020 |
| Phase IV: Project Closeout | March 1, 2020 - April 30, 2020 |

Project Benefits

The proposed project will impact 124 structures consisting primarily of single family homes and one (1) multi-family structure that is an Adult Living Facility for the elderly and individuals with disabilities. The estimated population of the target area is 1,166. According to HUD Census Data, the majority of the impacted homes are in Census Tract 106.08, Block Group 2 (51% Low-Mod Income Percentage) and a small number of homes (Puerto Rico Drive, from SW 103 Court to Anchor Road) fall within Census Tract 106.09, Block Group 1 (76% Low-Mod Income Percentage). This community is prone to flooding due to lack of drainage (See Appendix "B").

There is also one (1) public school (Gulfstream Elementary School) that is directly impacted by this project. Gulfstream Elementary School has an estimated student body of 708. 89% of students attending the school are minorities and 84% of students receive free/reduced lunch. Gulfstream Elementary houses an extensive special education program that provides services to a number of students with varying exceptionalities such as autism, intellectual disability, deaf/hard of hearing, physically impaired, other health impaired, specific learning disabled, language impaired and orthopedically impaired.

This project is included in the Town's adopted Flood Plain Mitigation Plan which was approved by the Florida Department of Environmental Protection and the Federal Emergency Management Agency (FEMA). This project is also included in the Miami-Dade County Local Mitigation Strategy Plan (See Appendix "C"). The current drainage in the target area consists of "Slab Covered Trenches". These trenches do not provide water treatment and therefore stormwater pollutants are deposited directly into the water table. The Town regularly maintains the drainage system (conducting regular street

sweeping and cleaning of the drains); however, rain storms that are common during the "wet" season in Miami-Dade County, oftentimes lead to heavy flooding of roadways and sidewalks in the target community. This also increases the likelihood that pollutants will enter the water table and local canals. Polluted stormwater runoff is often transported to the Municipal Separate Storm Sewer Systems (MS4), and is ultimately discharged into the Town's local canals and the environmentally sensitive Biscayne Bay; which borders the Town on the west. Common pollutants found in this residential community include; grease from roadways and driveways, pesticides from lawns, sediment from construction/home repairs, pet waste, and carelessly discarded trash.

The installation of the 2,400 LF of exfiltration trench will allow the stromwater treatment train to collect more water reducing roadway flooding and treat stormwater; greatly reducing the amount of pollutants that go into the water table. An analysis of the estimated loss due to street flooding following a "minor" event as designated by FEMA is over \$2.5 Million with a "major" event costing over \$5 million. The total estimated value of the properties identified in the target area is \$10 million.

About the Town of Cutler Bay

The Town was incorporated in 2005 and is approximately 10 square miles located along Biscayne Bay in south Miami-Dade County. The Town is a member of the National Flood Insurance Program Community Rating System (CRS), and currently has a classification six (6) rating. In compliance with the Town's Flood Plain Mitigation Plan, the Town established a Flood Plan Advisory Committee which consists of five (5) residents that meet quarterly with Town staff to review the Town's progress in implementing the projects identified in the Mitigation Plan. The Town is close to realizing the goal of moving to a CRS Classification four (4) rating by FY2018 as a result of implementing the recommendations listed in the Flood Mitigation Plan.

The Town was recertified through the Local Agency Program (LAP) by the Florida Department of Transportation in 2016 (Certification Expires in July 2019). The Town has a successful track record of implementing State and Federally funded infrastructure projects since 2009. The Town's most recently completed project was the SW 212 Street Drainage Project funded in part by the FDOT Transportation Alternatives Program and the Florida Department of Environmental Protection (through legislative appropriation FY2014). This project has received six (6) industry awards including Project of the Year, Professional Manager of the Year, Contractor of the Year, and Consultant of the Year. The project was completed within budget and in full compliance with all grant contractual requirements. The Construction Phase of this project was completed within an ambitious 90-day timeline in order to limit the impact to students and faculty needing to access Cutler Bay High School which is located in the target area on SW 212 Street.



Cutler Ridge Section 3 Drainage Improvement Project

Appendix A: Project Location Maps

- Town Jurisdiction/Boundary Map
- Service Area Map
- Flood Zone Map

Town of Cutler Bay Boundary Map

Cutler Bay Town Boundary



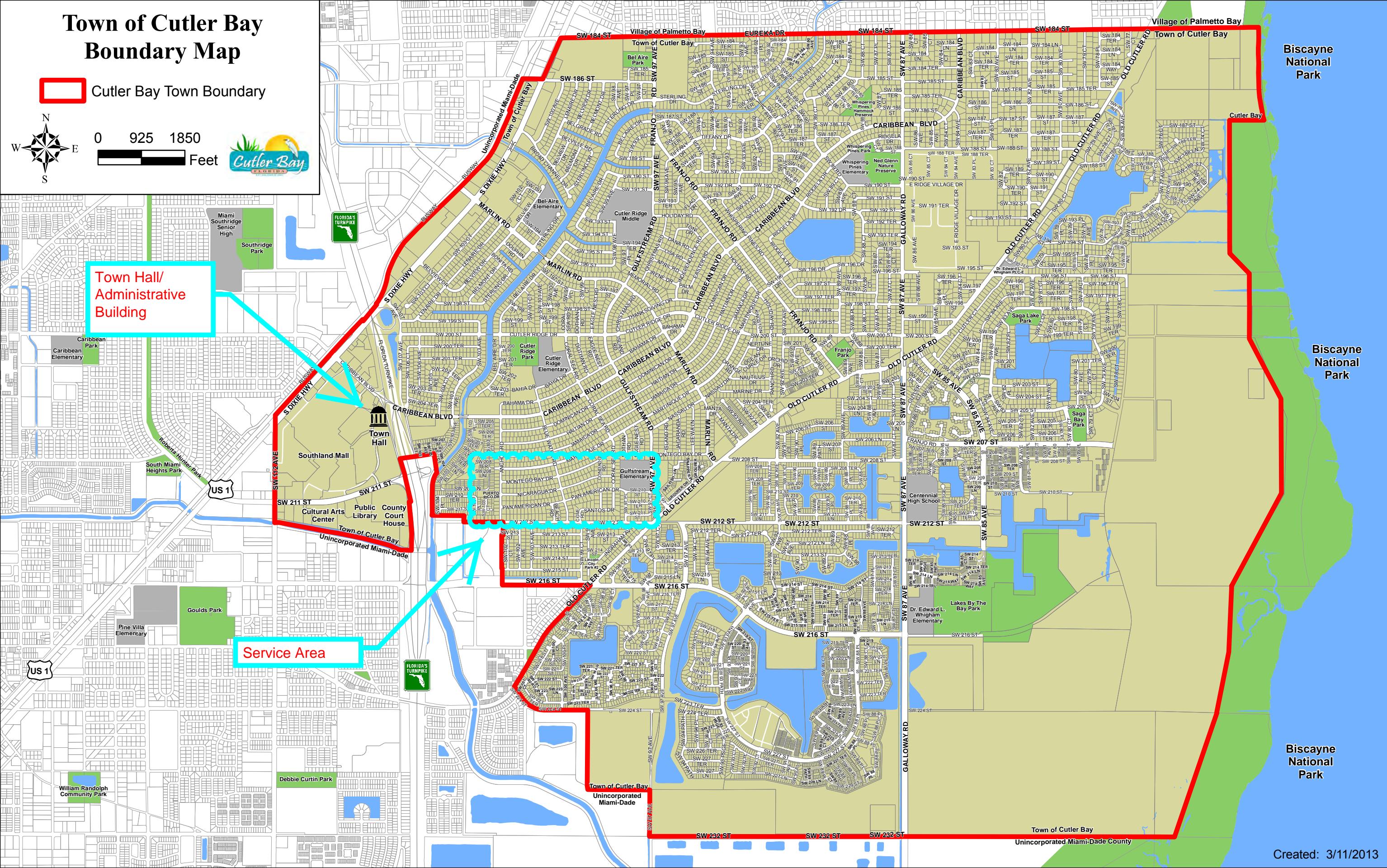
0 925 1850

Feet



Town Hall/
Administrative
Building

Service Area



Biscayne
National
Park

Biscayne
National
Park

Biscayne
National
Park

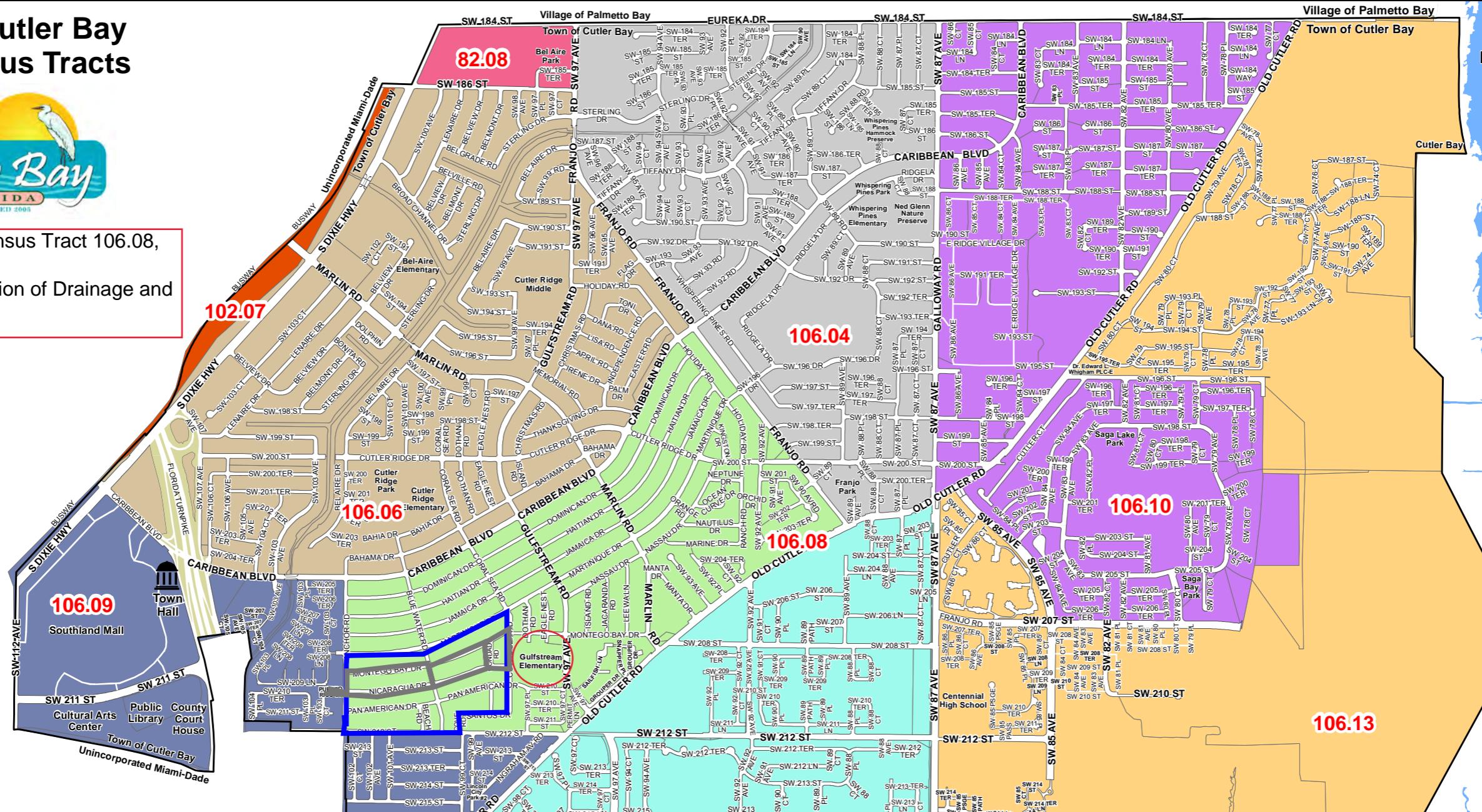
Created: 3/11/2013

Town of Cutler Bay 2010 Census Tracts



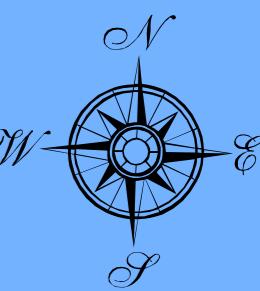
Blue Border = Census Tract 106.08, Block 1

Grey Line = Location of Drainage and Repaving



Created: 9/10/2013

Biscayne
National
Park



Legend

| 2010 Census Tracts | Color |
|--------------------|-------------|
| 102.07 | Orange |
| 106.04 | Grey |
| 106.06 | Brown |
| 106.08 | Light Green |
| 106.09 | Dark Blue |
| 106.12 | Cyan |
| 106.13 | Yellow |
| 106.17 | Light Green |
| 82.08 | Pink |
| 9806 | Light Green |

0 875 1750 3500 Feet

Biscayne
National
Park

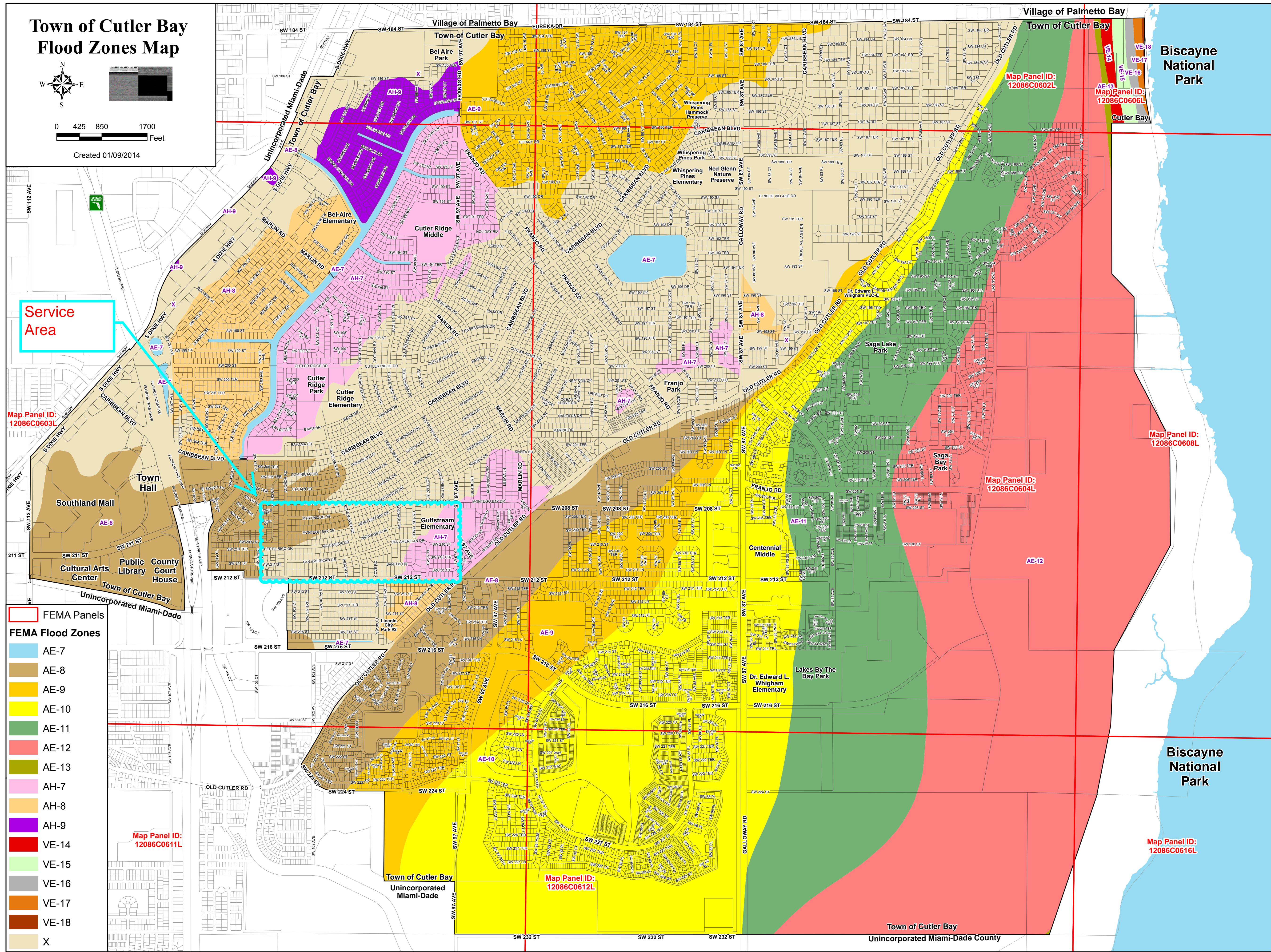
Town of Cutler Bay Unincorporated Miami-Dade County

Town of Cutler Bay Flood Zones Map



0 425 850 1700
Feet

Created 01/09/2014





Cutler Ridge Section 3 Drainage Improvement Project

Appendix B: Photographs of Flooding

Attachment "A": Photographs of Flood Conditions



Attachment "A": Photographs of Flood Conditions



Attachment "A": Photographs of Flood Conditions



Flooding
Prohibits
Youth from
Walking
Safely to
School





Cutler Ridge Section 3 Drainage Improvement Project

Appendix C: Comprehensive Plan

- Excerpt from Miami-Dade County Local Mitigation Strategy



LMS Project List

Record Details

| | |
|--------------------------------|---|
| Agency Type: | Municipalities |
| Agency: | Cutler Bay |
| Project Title: | Cutler Ridge Section 3 Drainage Improvement |
| Entry Type: | New Project |
| Original Date of Entry: | 02/07/2017 |
| Last Updated: | 02/07/2017 14:57:42 |
| Status: | Funding Applied for |

Project Details

| | |
|----------------------|---|
| Hazard: | ,Flood,Flood/Storm Surge,Sea Level Rise,Storm Surge,Technological Disruption,Health |
| Project Type | Infrastructure (Water/Sewer/Drainage) |
| Mapper Label: | |
| Address: | 10260 nicaragua Dr |
| Longitude: | |
| Latitude: | |
| Flood Basin: | ,C1 |

Project Completion

| | |
|-------------------------------|--|
| Completion Time frame: | 18 months |
| Mitigation Goals: | Minimize future losses from all disasters by reducing the risk to people and property. |
| Funding Status: | Grant Applied For |
| Is a Match Required? | Yes |
| Match Identified: | Yes |

Cost Details

| | |
|-------------------------|--|
| Funding Source: | Florida Small Cities Department of Economic Opportunity (CDBG) and Stormwater Utility Fund |
| Estimated Costs: | 1,015,160.00 |
| Global Match: | Unknown |

Project Description

The Town of Cutler Bay is requesting \$750,000 in funding from the Florida Department of Economic Opportunity's Small Cities CDBG Program under the "Neighborhood Revitalization" category. The Town will install approximately 2,400 linear feet in one of the Town's residential neighborhoods on Town owned and maintained roadways. The project boundaries are:

- Montego Bay Drive, from Anchor Road to Coral Sea Road
- Nicaragua Drive, from Anchor Road to Coral Sea Road
- Coral Sea Road, from Montego Bay Drive to Nicaragua Drive (at Gulfstream Elementary School)
- Condado Road, from Montego Bay Drive to Nicaragua Drive
- Anchor Road, from Montego Bay Drive to Nicaragua Drive
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The Town will implement best management practices during the project to include; installation of a 2,400 LF exfiltration trench (36" Diameter), and new catch basins. Following drainage installation, the identified streets will be paved, including pavement markings and signage.

Comments

Details

Attachment #1:

Attachment #2:

Attachment #3:

Name: Alfredo Quintero Jr.
Email: AQuintero@cutlerbay-fl.gov
Phone: 305-234-4262
BCA Completed: Yes
BCA Score: 83
Self Prioritization Score:
Archived:
Benefit Cost Review: 83