

MIAMI-DADE COUNTY
LMS
LOCAL MITIGATION STRATEGY



**Whole Community
Hazard Mitigation
Part 6: Completed Projects**



July 2020

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What is Hazard Mitigation?

“Hazard Mitigation means any action taken to reduce or eliminate the long-term risk to human life and property from natural or manmade hazards.”

Why Mitigation?

Miami-Dade County, in fact, all of South Florida, is vulnerable to disasters of all types affecting every part of our community; no one is immune. We’ve suffered hurricanes, tornadoes, severe flooding, lightening, wildfires, plane crashes, hard freezes, droughts, citrus canker, mass migration and more. Interested?

Want some details? How about this:

- Hurricane Andrew in 1992 – DR 955 – **\$30,000,000,000**
- Storm-of-the-Century in 1993 – DR 982 – **\$50,000,000**
- Tropical Storm Gordon in 1994 – USDA-FSA – **\$90,000,000**
- The Ground Hog Day storms in 1998 – DR 1204 – **\$50,000,000**
- Hurricane Georges in 1998 – ER 3131 – **\$12,500,000**
- Hurricane Irene in 1999 – DR 1306 – **\$800,000,000**
- The No-Name Storm in 2000 – DR 1345 – **\$500,000,000**
- Tornadoes in 2003 – DR 1460 – **\$15,000,000**
- Hurricanes Frances in 2004 – DR 1545 – **\$33,000,000**
- Hurricane Jeanne in 2004 – DR 1561 – **\$10,400,000**
- Hurricane Katrina in 2005 – DR 1602 – **\$500,000,000**
- Hurricane Wilma in 2005 – DR 1609 – **\$4,000,000,000**



That is just a portion of projects that have been embarked upon to make our community more resilient. In 1998 a decision was made to do something about it and the Local Mitigation Strategy was born. Now, it’s time to show you what your Local Mitigation Strategy Working Group has been up to.

Mitigation in Miami-Dade

Mitigation is not new to Miami-Dade County or to its municipalities and other organizations. Mitigation, as we know it now, began for us during the recovery period following Hurricane Andrew. FEMA, the Federal Emergency Management Agency, introduced Public Assistance Enhancements, what we call 406 mitigation (from Section 406 of the Stafford Act), which is mitigation that is performed during the repair or rehabilitation of a facility damaged by the disaster event, in this case, Hurricane Andrew. 406 mitigation continued during the recovery effort following each of the disaster declarations issued since Hurricane Andrew. To protect those facilities that were not impacted by the event, the Hazard Mitigation Grant Program, or 404 Mitigation, is available as a major source of funding. Of course, there are many other sources of mitigation funding that are discussed in the Local Mitigation Strategy document itself.



In 1998, the State of Florida sponsored the program called the Local Mitigation Strategy (LMS) and provided funding to each county in the State to develop, as the name implies, a strategy to mitigate damages from a Local perspective. The concept is to bring together all the parties within a County to work together to make their communities safe from disasters.

In Miami-Dade County, we have truly made this work. Our municipalities, our county departments, our colleges and universities, our schools, our outreach organizations, our faith-based community and our private sector companies have all joined together in the Miami-Dade LMS Working Group and made the Local Mitigation Strategy a reality.

The purpose of this supplement to the Local Mitigation Strategy is to document all the fine work that has been accomplished in Miami-Dade County through the efforts of the LMS Working Group.¹

¹ EMAP 4.4.4

406 Mitigation



Floating Docks



Protected Electric



Stronger Towers



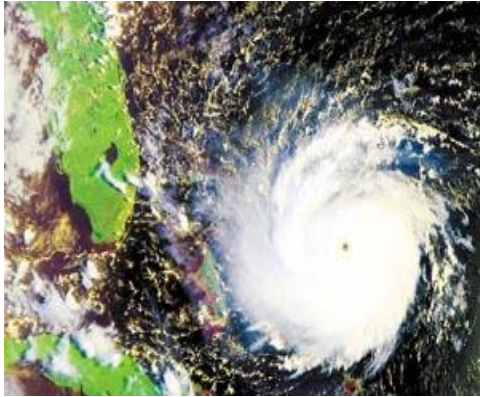
Stabilized Banks



Canal Cleaning & Shaping

PA Enhancements in Miami-Dade

Windstorm Mitigation



One of the major causes of damage in South Florida is windstorm: hurricanes, tornadoes and severe thunderstorms. We have been impacted by Hurricane Andrew in 1992, Storm-of-the-Century in 1993, Tropical Storm Gordon in 1994, The Ground Hog Day tornadoes in 1998, Hurricane Georges in 1998, Hurricane Irene in 1999, the “No-Name” storm of 2000 and more tornadoes in 2003, Hurricanes Frances and Jeanne in 2004 and most recently, Hurricanes Katrina and Wilma in 2005.

It has been a primary goal of the Miami-Dade Local Mitigation Strategy Working Group to mitigate against windstorm whenever and wherever possible. The principle cause of damage in a windstorm is from flying debris that shatters the windows and allows high winds to breach the building envelope, which, in turn, can cause the roof to fail. The most effective, cost beneficial measure to accomplish this is the installation of window protection. Window protection carries one of the highest benefit-to-cost ratios of any mitigation measure. Window protection includes storm panels, accordion shutters, roll-down shutters, passive perforated metal plates, laminated glass, Lexan and other heavy glass. Although very popular, the use of plywood is not recommended because of the difficulty putting it up in a hurry and storing it.

This windstorm mitigation has many faces within the LMS program. We have developed the residential shuttering program that installs free hurricane panels on the homes of low-income elderly citizens in our community. We have provided window protection to several organizations that shelter the homeless thereby no longer requiring them to go to a general population shelter during a storm. We have protected county buildings, municipal buildings, university buildings, public school buildings and so on and so forth with the ultimate goal of having every building in Miami-Dade County protected.

The following are examples of wind storm protection completed since the Local Mitigation Strategy Working Group was formed in 1998.



Academic Institutions

Miami Christian School



One of five buildings protected by perforated steel window coverings through Hazard Mitigation Grant Program for total of \$230,000. These grants were awarded under FEMA DR-1545, DR-1561 and DR 1609



American High School: Schools Retrofit as Hurricane Evacuation Centers

American Senior High School, a part of Miami-Dade County Public Schools



American High School, above, was retrofit to serve as a hurricane evacuation center serving the public during a hurricane evacuation. Other schools also retrofitted were Barbara Goleman Senior High, Citrus Grove Elementary, Miami Springs Senior High, Southridge Senior High, Sunset Senior High, North Miami Middle School, South Miami Senior High and Southwood Middle School. The combined total cost of the retrofit was \$3,612,000 and was funded by the Hazard Mitigation Grant Program through FEMA-1306-DR-FL, Hurricane Irene.



Miami Springs H.S.



Miami Southridge H.S.

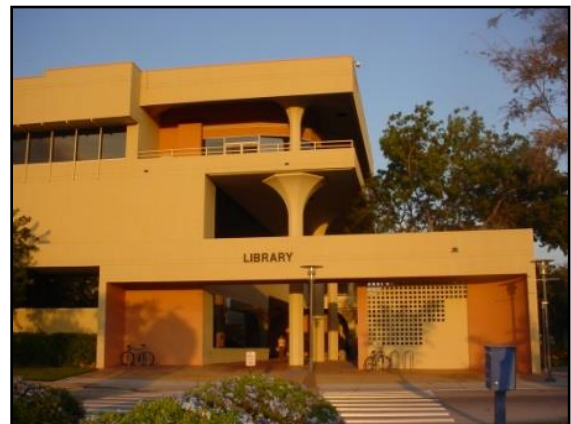


North Miami Middle

Florida International University



The third floor of the FIU Biscayne Campus library in North Miami has been hardened for use as a hurricane shelter at a cost of \$366,000 and funded by the Hazard Mitigation Grant Program through FEMA-1204-DR-FL, the February 1998 Ground Hog Day tornadoes. Note: This was the first project completed following the formation of the Local Mitigation Strategy.



Johnson & Wales University



Located in North Miami, Florida, this university has an on-campus hurricane shelter created to house the university's residential students during a storm. The shelter, centered on the university library and containing a gourmet kitchen, cost \$33,000 and was funded by the Hazard Mitigation Grant Program through FEMA-1204-DR-FL.



University of Miami



The University's Richter Library, above, is one of twelve campus buildings protected by perforated metal panels at a combined total cost of \$1,040,000 and funded by the Hazard Mitigation Grant Program through FEMA-1300-DR-FL.



University of Miami



Alumni House



Cuban American Studies



Educational Research



Behavioral Medicine



Nursing



Dining Hall

Perforated Steel @ \$1,040,000

Florida International University



The student dormitories at the University Park campus have steel wire mesh window protection installed that is hinged and opens out at the center. The total cost is \$1,900,000 funded by the Hazard Mitigation Grant Program through FEMA-1300-DR-FL.



St. Thomas University



Kennedy Hall, the university's main administration building, is protected by roll-down shutters throughout. This building houses all the university's important records and the cost of \$300,000 was funded by the Hazard Mitigation Grant Program through FEMA-1345-DR-FL, the No-Name storm of the year 2000.



St. Thomas University



Cassia Dormitory, above, along with Donnellen Hall and the cafeteria have window protection at a cost of \$313,000 through FEMA-1602-DR-FL.



The Cafeteria



Donnellen Hall

University of Miami



The University's Performing Arts Center, above, is one of three medical campus buildings protected by perforated metal panels at a combined total cost of \$3,618,000 and funded by the FEMA Pre-Disaster Mitigation Grant Program of 2003.



Mailman Center for Child Development



Rosenstiel Medical Sciences

University of Miami



The University's Rosenstiel School of Marine and Atmospheric Science including the Aplysia Rearing Facility, CIMAS Building, Doherty Marine Science Center, Grosvenor – East, Grosvenor – South, RSMA Science & Administration Building is protected by heavy duty accordion shutters at a total cost of \$466,900 and funded by the FEMA Pre-Disaster Mitigation Grant Program of 2004-2005.



Homeless Shelters

Community Partnership for the Homeless, Inc.



This downtown Miami homeless shelter houses over 500 individuals plus staff and is protected by heavy-duty hurricane glass installed throughout at a cost \$99,000 and funded by the Hazard Mitigation Grant Program through FEMA-1204-DR-FL.



Miami Rescue Mission



This homeless shelter is located in downtown Miami. The men's dormitory (above) and women's dormitory (below) are protected by at a cost of \$158,000 and funded by the Hazard Mitigation Grant Program through FEMA-1300-DR-FL.



Miami-Dade County Government

Miami-Dade Police Department



The Miami-Dade Police Northwest District Station has a reinforced roof at a cost of \$103,000 and funded by the Hazard Mitigation Grant Program through FEMA-1539-DR-FL



Miami-Dade Police Department



The Miami-Dade Police Training Bureau building was hardened at a cost of \$102,000 funded by the Hazard Mitigation Grant Program through FEMA-1545-DR-FL



Miami-Dade Police Department



The Hammocks District Station and Northside District Station have hardened roofs at a cost of \$318,000 and funded through the FEMA Pre-Disaster Mitigation Program Of 2004-5. This station also received \$90,000 for window protection through the State's Residential Construction Mitigation Program.

Northside District Station**A Protected AC System****Ground Water Intake****Ground Water Return**

This air handler at the Miami-Dade Information Technology Department building has accordion shutters installed to protect it from flying debris during a storm. The shutters are closed just before the arrival of tropical storm force winds and reopened as soon as the winds subside. The system is also protected from possible loss of the county water supply by allowing the system to draw directly from ground water for cooling then immediately returning the water back to ground. Total cost: \$220,000

Port of Miami



Terminal H at the Port of Miami has windstorm protection provided by passive, perforated metal panels costing \$395,000 and funded by the Hazard Mitigation Grant Program through FEMA-1609-DR-FL, Hurricane Wilma.



Municipalities

City of Sweetwater



The city hall, which also houses the city's Police Department, has windstorm protection provided by passive, perforated metal panels costing \$130,000 and funded by the Hazard Mitigation Grant Program through FEMA-1300-DR-FL, Hurricane Floyd.



City of North Miami Beach



The North Miami Beach City Hall is one of seven municipal buildings in the city of North Miami Beach with window protection installed at a cost of \$70,000 and funded by the Hazard Mitigation Grant Program through FEMA-1345-DR-FL.



Solid Waste Facility



Washington Park



Allen Park Center

City of Miami Springs



The Senior Citizen's Activity Center in the city of Miami Springs was outfitted with accordion shutters at a cost of \$17,000 and funded by the Hazard Mitigation Grant Program through FEMA-1345-FL-DR.

City of Miami



Install Shutters on the city's GSA Property Maintenance Building for \$22,000 through the Hazard Mitigation Grant Program through FEMA-1345-DR-FL.



City of Miami



Retrofit the city's GSA Fleet Maintenance Garage for \$565,000 through the Pre-Disaster Mitigation Program of 2003.



Village of Pinecrest



The municipal building in the village of Pinecrest was hardened to withstand the strongest of hurricanes at a cost of \$342,000 and funded by the Hazard Mitigation Grant Program through FEMA-1345-FL-DR.



Hospitals

Miami Children's Hospital



Miami Children's Hospital is the only licensed specialty hospital exclusively for children in South Florida. The entire main building was encapsulated to provide protection against the most severe windstorm. \$5,000,000 of the encapsulation cost was funded by the Hazard Mitigation Grant Program through FEMA-1345-DR-FL.



Baptist Health South Florida



Doctor's Hospital in Coral Gables has a wind retrofit at a cost of \$2,027,000 and funded by the Hazard Mitigation Grant Program through FEMA-1545-DR-FL



Jackson Health System



The Highlands Professional Building with steel screen through the Hazard Mitigation Grant Program for \$487,000 by FEMA 1602-DR-FL.



Jackson Memorial Hospital



The Ambulatory Care Center at Jackson Memorial Hospital is protected by perforated steel window coverings for a total of \$716,000 through the Pre-Disaster Mitigation Program of 2004/5.



The Public Health Trust



Central Building
\$222,000



Rehabilitation Annex
\$395,000



South Wing
\$414,000



West Wing
\$526,000



Institute Building
\$394,000



Rehabilitation Building
\$551,000

Window protection through the Pre-Disaster Mitigation Program

Citrus Health Network



This medium sized mental health hospital is located just off the Palmetto Expressway in Hialeah, Florida. Accordion shutters have been installed throughout at a cost of \$127,000 and funded by the Hazard Mitigation Grant Program through FEMA-1204-DR-FL. Additionally, the hospital telephone system has had a ground fault system installed to protect against lightning strikes.



Low Income Housing

Hialeah Housing Authority



Ashley Plaza public housing has steel screen window protection at a cost of \$314,400 and funded by the Hazard Mitigation Grant Program through FEMA-1609-DR-FL.



The Residential Shuttering Program**House #1****House #1000**

The Residential Shuttering Program installs aluminum storm panels on the homes of low-income elderly residents of Miami-Dade County and its municipalities. Pictured above left is house number 1 completed in January 2002. On August 27, 2004, panels were installed on house number 1,000. Also, in this program exterior doors that open in are reinforced as added protection to the building envelope. This project is funded in excess of \$2,000,000 through the Residential Construction Mitigation Program, the Hazard Mitigation Grant Program and appropriations by the Miami-Dade County Board of County Commissioners. The Miami-Dade County Community Action Agency is the lead agency for this program.

**The Shuttering Committee**

Other Projects: The CHARLEE Project



This program provides group homes for troubled youth. This is the Kendallwood House, one of four such homes with accordion shutters installed for \$75,000 provided by the Hazard Mitigation Grant Program through FEMA-1345-DR-FL.



Shenandoah House



Bayshore House



Pine Acres House

Flood Mitigation

The hydrological characteristics of South Florida are unique. Because it is so flat, we will never have huge volumes of water racing down the hillside destroying everything in its path. Flood damage here is much more subtle. We have just the opposite problem; the lack of slope means rainwater does not rapidly run off but must be absorbed into the ground. So, when the ground is saturated and the lakes and canals are full, there is nowhere for the rainfall to go hence, we flood.



The main substrate in South Florida is oolitic limestone that is extremely porous; in layman's terms, like a giant sponge and, like a sponge, works best when it's damp. Neither a totally dry sponge nor a sopping wet sponge works; the damp sponge is what absorbs water. This is why one of the major stormwater management methods in South Florida is the use of ground recharge systems more commonly referred to as French drains.

In 1998, the Quality Neighborhoods Improvement Program (QNIP) bond issue was passed by the voters of Miami-Dade that includes, among other things, approximately \$50 million for stormwater drainage projects throughout the county. The county funded mitigation measure was used as the main Local cost match for the ensuing C-4 Basin Initiative.

Additionally, appropriations by the state legislature for stormwater drainage projects within Miami-Dade County municipal boundaries has averaged \$10 million to \$15 million annually for fiscal years 2001 thru 2004. These are primarily ground recharge systems with outfalls to various primary and secondary conveyance canals or to nearby lakes.

At the same time as the above noted projects are going on, major cleaning and shaping of the secondary canal system is underway under the supervision of the county's Department of Environmental Resources Management and is funded by "406 Mitigation" tied to Hurricane Irene and the No-Name Storm of the year 2000.

The C-4 Basin Initiative

In October of 1999, Hurricane Irene passed over Miami-Dade County causing severe flooding. Then, in October of 2000, one year later, the No-Name storm hit once more causing severe flooding. The governor of Florida tasked the Local Mitigation Strategy Working Group, acting as the *Governor's South Florida Flood Task Force*, to find a solution to the flooding problems. A committee was formed, and the South Florida Water Management District was chosen as the lead agency in the effort. Other organizations on the committee were the Miami Dade Office of Emergency Management, Miami-Dade Department of Environment Resources Management, the Florida Division of Emergency Management, the U.S. Army Corps of Engineers, URS Corporation, PBS&J and the municipalities along the waterway.

An analysis was made of the entire county looking at such things as lane-miles of damage to roads, populations of the various hydrological basins, and flood damage claims filed with insurance companies, FEMA and the Small Business Administration. The results of the analysis pointed to the C-4 or Tamiami Canal basin as the place to start.



The major components of the initiative are large pumps installed downstream of the flooded area to move outflow against an incoming tide; an emergency detention basin upstream of the flooded area to divert outflow before it enters the area; dredging and shaping of the canal between the basin and the pump to improve overall flow and pumps on the adjacent Miami River to keep the C-4 outflow from overwhelming the river discharge. Other components of the initiative include drainage projects in the C-4 basin municipalities and unincorporated areas of the County.

The Tamiami Canal (C-4) Forward Pump

The forward pump on the C-4 or Tamiami Canal at Structure S25B is designed to push water flow downstream against the incoming tide thus allowing the system to continuously drain. It is actually three 54" pumps that together pump 600 cfi (cubic feet per second), which equals 4,500 gallons per second. This pump is the first element in the C-4 Basin Initiative and was constructed at a cost of \$3,400,000 through the Hazard Mitigation Grant Program funded by FEMA-1345-DR-FL, the October 2000 "No-Name" storm.



The Miami River Forward Pump

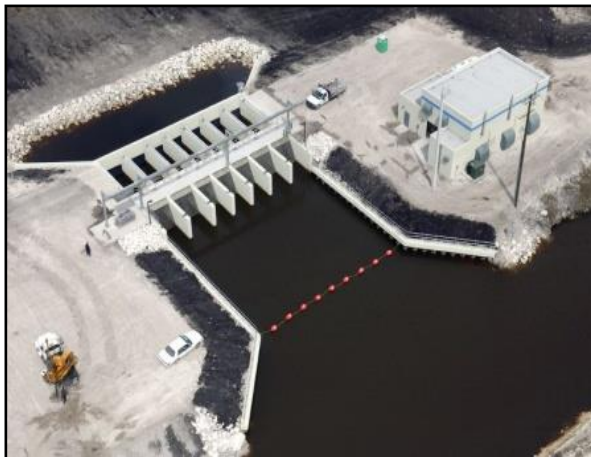


The forward pump at S-26 on the Miami River (C-6) is designed to counter the effects of the forward pump on the C-4 and prevent the C-4 Canal outflow from overwhelming the river thus causing flooding up-river. This pump, which also moves 600 cfi, is the second element in the C-4 Basin Initiative and was constructed at a cost of \$5,200,000 through the Hazard Mitigation Grant Program funded by FEMA-1345-DR-FL.



The Emergency Detention Basin

Pictured is the main pump station at the C-4 emergency detention basin (EDB). The EDB is made up of two reservoirs of nearly 500 acres each, which allows for approximately 4,000 acre/feet of water to be diverted from the C-4, which, in turn, creates increased holding capacity in the downstream section of the canal. The EDB is one more element in the C-4 Basin Initiative costing \$5,500,000 from the Hazard Mitigation Grant Program, FEMA-1345-DR-FL.



The EDB Supply Canal

The supply canal is the link between the emergency detention basin and the C-4 Canal. The supply canal and the access bridge were built at a cost of \$3,700,000 and were funded by the Hazard Mitigation Grant Program from FEMA-1345-DR-FL. An item of interest is that the bend in the supply canal at the point it enters the C-4 is to avoid an ancient Indian midden and burial ground.



The Miccosukee Tribe of Indians of Florida



The Miccosukee Indian Reservation is located in the C-4 Basin but upstream of the initiative improvements. To compensate, these large trailer mounted pumps were purchased at a cost of \$100,000 and, when needed, are placed in strategic locations to reduce flooding. Funding is through the Hazard Mitigation Grant Program from FEMA-1345-DR-FL.



The Sweetwater Berm



In the mid-1980's, the widening of U.S. 41, the Tamiami Trail, raised the elevation of the south bank of the C-4 or Tamiami Canal, which, in turn, caused an uneven distribution of floodwaters. This berm was constructed to bring the north bank back even with the south bank. A linear park with benches, a gazebo and a vitae course was added to enhance the project. This is another element in the C-4 Basin Initiative and was constructed at a cost of \$967,000 through the Hazard Mitigation Grant Program funded by FEMA-1345-DR-FL.



Storm Water Control



Most of the time, in Miami-Dade County, when you see these curb cuts what you have is a ground water recharge system, more commonly called a French drain. The photos below show you what's underground. In 1998, Miami-Dade County passed a \$70 million bond issue named QNIP, the Quality Neighborhoods Improvement Program, most of which was to relieve neighborhood flooding. Many QNIP dollars were used as project or global match for the C-4 Basin Initiative.



Uninstalled Curb Cuts



Catch Basins



Perforated Pipe



A Manhole

Other Mitigation Measures

While window protection for windstorm and flood protection account for the bulk of the mitigation dollars spent in Miami-Dade County, they are by no means the only mitigation measures that are considered.

It should be noted that many projects are sponsored by agencies other than FEMA. There are dune restoration projects and flood related studies in progress in Miami-Dade County that are funded through the NOAA Coastal Impact Assistance Program. Mitigation measures along the Intercoastal Waterway have been funded through the Florida Inland Navigation District. Wildfire mitigation through controlled or prescribed burns is sponsored by The Nature Conservancy, Florida Division of Forestry and the National Park Service.



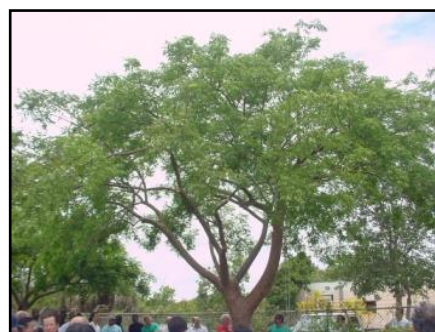
Proper Tree Trimming



Local Mitigation Strategy partners Miami-Dade County Cooperative Extension Service and the University of Florida's Institute of Food and Agricultural Sciences sponsor annual training classes for arborists and park and public works specialists in the proper way to prune trees for hurricane survival. Held annually since the year 2000, this program is presented in cooperation with the Miami-Dade Office of Emergency Management and the Local Mitigation Strategy Working Group.

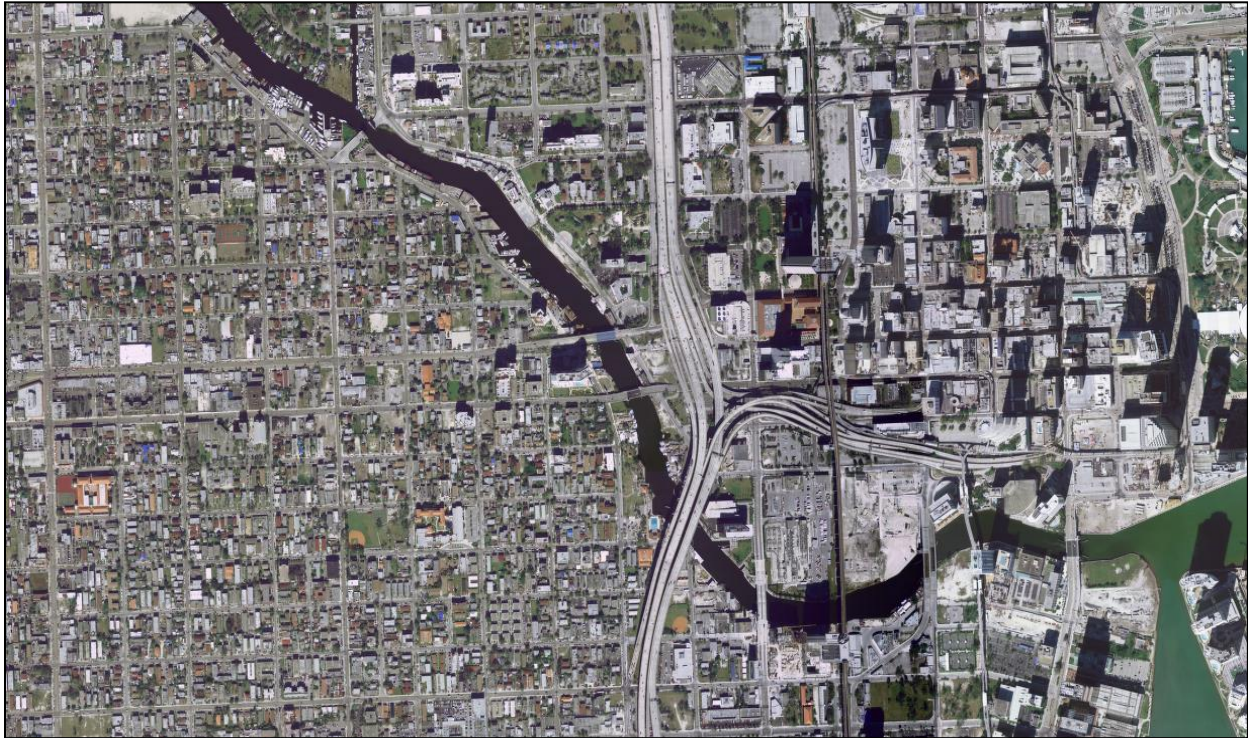


Before



After

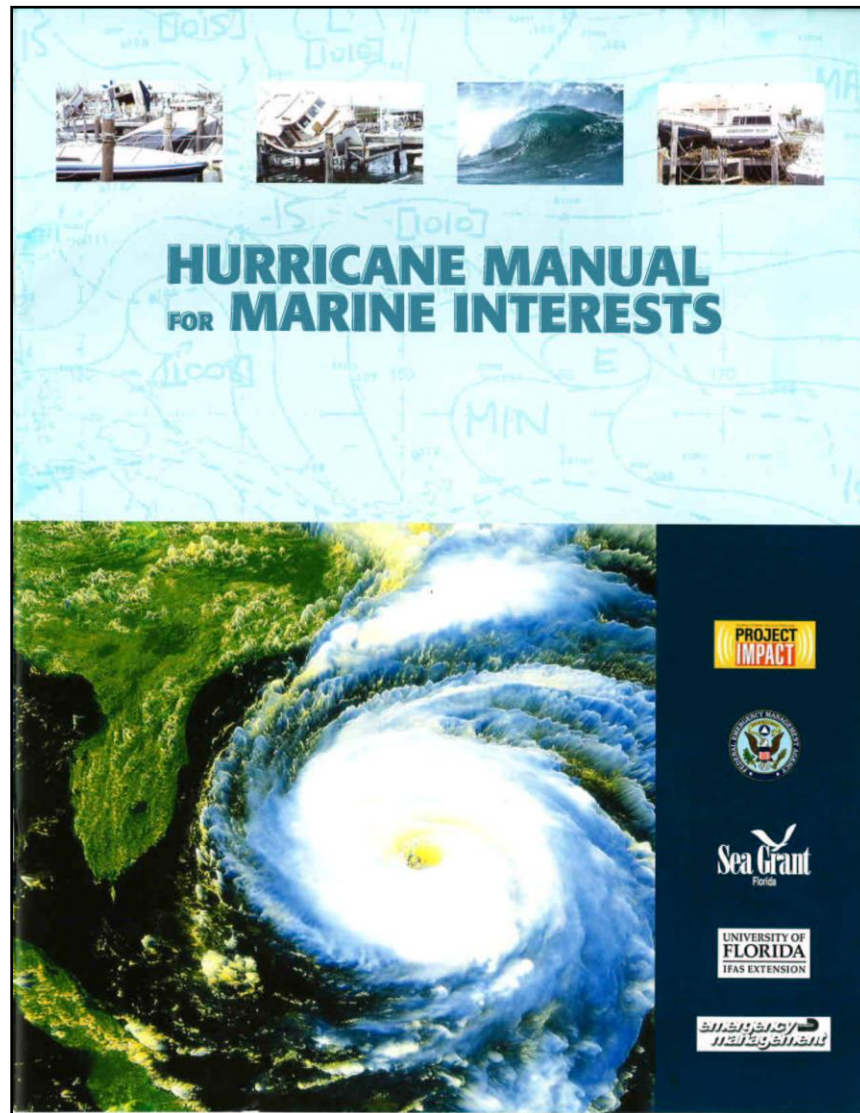
Miami River



Community Benefit Issue Request (CBIR) from FY 2005, FY 2006 and FY2007 was used to dredge the Miami River shipping channel. \$6,800,000 was funded for the Federal channel and \$5,200,000 for the non-Federal or that part of the river to either side of the Federal channel.



Hurricane Manual for Boaters



This *Hurricane Manual for Marine Interests* was developed through the Florida Sea Grant program, a member of the Local Mitigation Strategy Working Group. It explains the proper ways to prepare boats for hurricanes and teaches marine safety for before, during and after a storm. The manual was funded through FEMA's Project Impact.



Terrorism Mitigation



The terrorism mitigation committee of the Local Mitigation Strategy concluded that the best way to fight terrorism is through the education of our children. This game, Home Free USA, was developed as a way to get the kid's attention. It's based on the Federal security color chart and asks the student different questions about terrorism. Correct answers advance the player until he or she is "Home Free." They are then taught what terrorism is, what it is not, and to be aware of terrorism without living in fear of it. Initially, a two-week social studies module has been devised and successfully tested in several schools.

Partnerships



The Local Mitigation Strategy of Miami-Dade County promotes partnerships and works with many other agencies and organizations to promote mitigation activities. The members of the LMS Working Group come from our municipalities, our county departments, our colleges and universities, our public and private schools, our service organizations, our faith based community and our private sector companies and corporations. There are, on average, over one hundred people and over sixty organizations represented at any given meeting of the Local Mitigation Strategy Working Group.

In some of the partnerships, the Local Mitigation Strategy is directly involved in coordinating efforts or funding measures or inter-organizational liaison and other such activities. In other cases, such as the National Flood Insurance Program's Community Rating System or the High Velocity Hurricane Zone section of the Florida Building Code, the LMS supports the effort but is not directly involved in the activities.

Disaster Resistant Universities



In 2001, the Federal Emergency Management Agency initiated the Disaster Resistant Universities (DRU) program and the University of Miami (above) was one of the charter members in the program and hosted the first DRU conference. In 2004, Florida International University entered into the program, as well. The program encourages colleges and universities nationwide to become active participants in hazard mitigation. In Miami-Dade County, the University of Miami and FIU are joined by St. Thomas University, Miami Dade College, Florida Atlantic University, Florida Memorial University, Johnson & Wales University, Barry University and the University of Florida as active participants in the Local Mitigation Strategy.

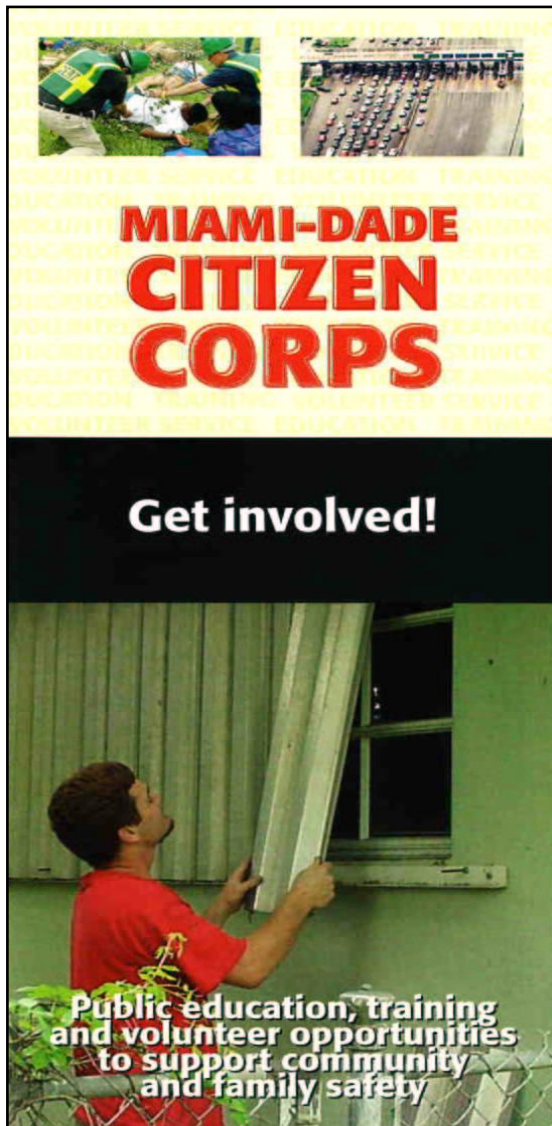


Alternate Spring Break

This program gives college students a way to spend their spring break doing service to the community. In Miami-Dade County, The American Red Cross of Greater Miami and the Keys, AmeriCorps, the Community Action Agency and the Miami-Dade Office of Emergency Management, all partners in the Local Mitigation Strategy, have brought the students here to install hurricane shutters on the homes of low-income elderly residents.



Miami-Dade Citizen Corps



The Local Mitigation Strategy works to develop the Miami-Dade Citizen Corps and all its components. While some components are more fully developed than others, all will help put Miami-Dade in the forefront of the Citizen Corps national effort. The Citizen Corps brochure pictured above was funded by the Local Mitigation Strategy and Project Impact.

Miami-Dade CERT Teams



The Local Mitigation Strategy works with the Miami-Dade Community Emergency Response Teams and provided the funding to purchase equipment for low-income teams and to print the CERT brochure. Miami-Dade's CERT program is a national leader with close to 1,500 team members trained.

Hurricane Expo



The Home Depot and Miami-Dade Fire Rescue helps



Insurance Commissioner
Tom Gallagher helps



Miami-Dade Fire Rescue
Air Rescue helps

Sponsored By
Federal Alliance for Safe Homes
The Home Depot
Miami-Dade
Office of Emergency Management

StormReady County



Jim Lushine, left, of the National Weather Service's (NWS) Miami Forecast Office presents the *StormReady* County sign to Frank Reddish, the LMS coordinator and Chuck Lanza, director of Miami-Dade Emergency Management. The NOAA and the National Weather Service have set down certain standards that must be met for a community to earn the right to call itself a *Storm Ready* Community.



In 2008, Rob Molleda, left, of the NWS Miami Forecast Office, with LMS coordinator Frank Reddish and Emergency Management director Doug Bass, extends *Storm Ready* status for Miami-Dade County through the year 2011. Miami-Dade County was re-designated a *Storm Ready* Community in 2011-2013.

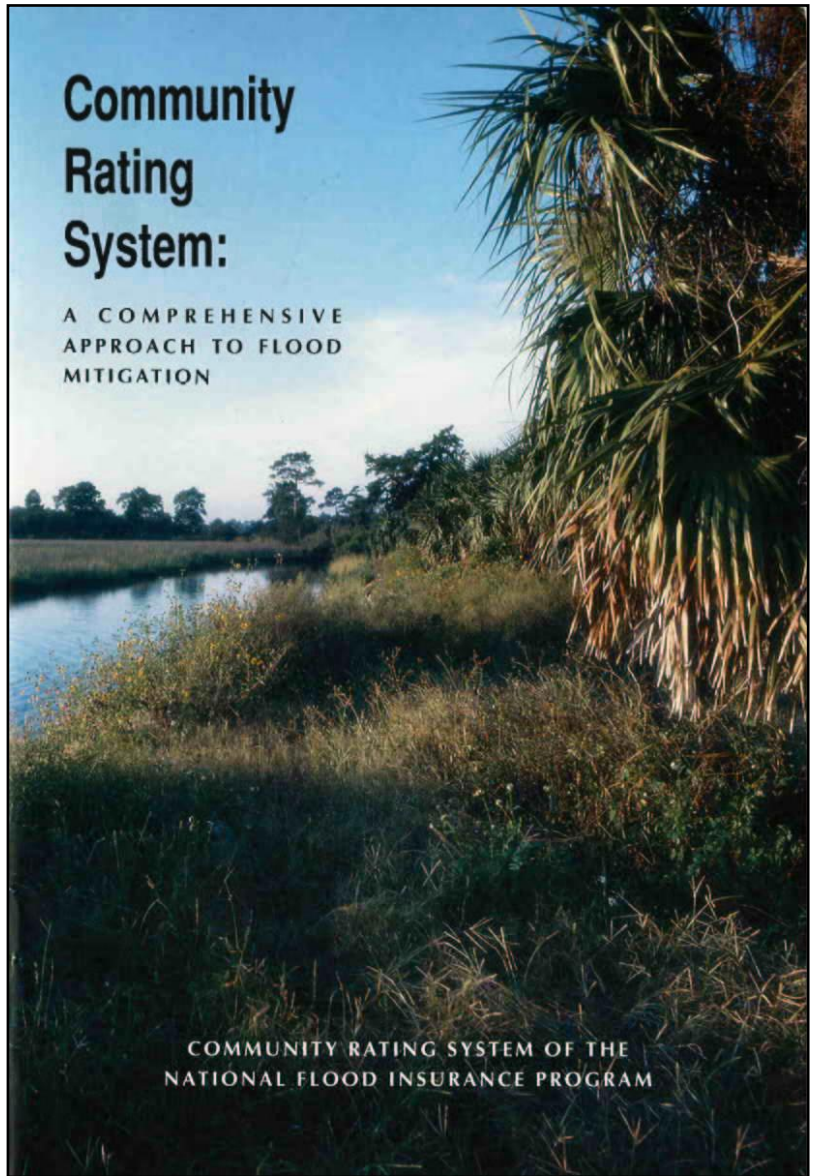
Miami-Dade was renewed as a Storm Ready Community again in 2014.



National Flood Insurance Program

Miami-Dade County has a CRS rating of 5 and strives to have every municipality within the county take part in the

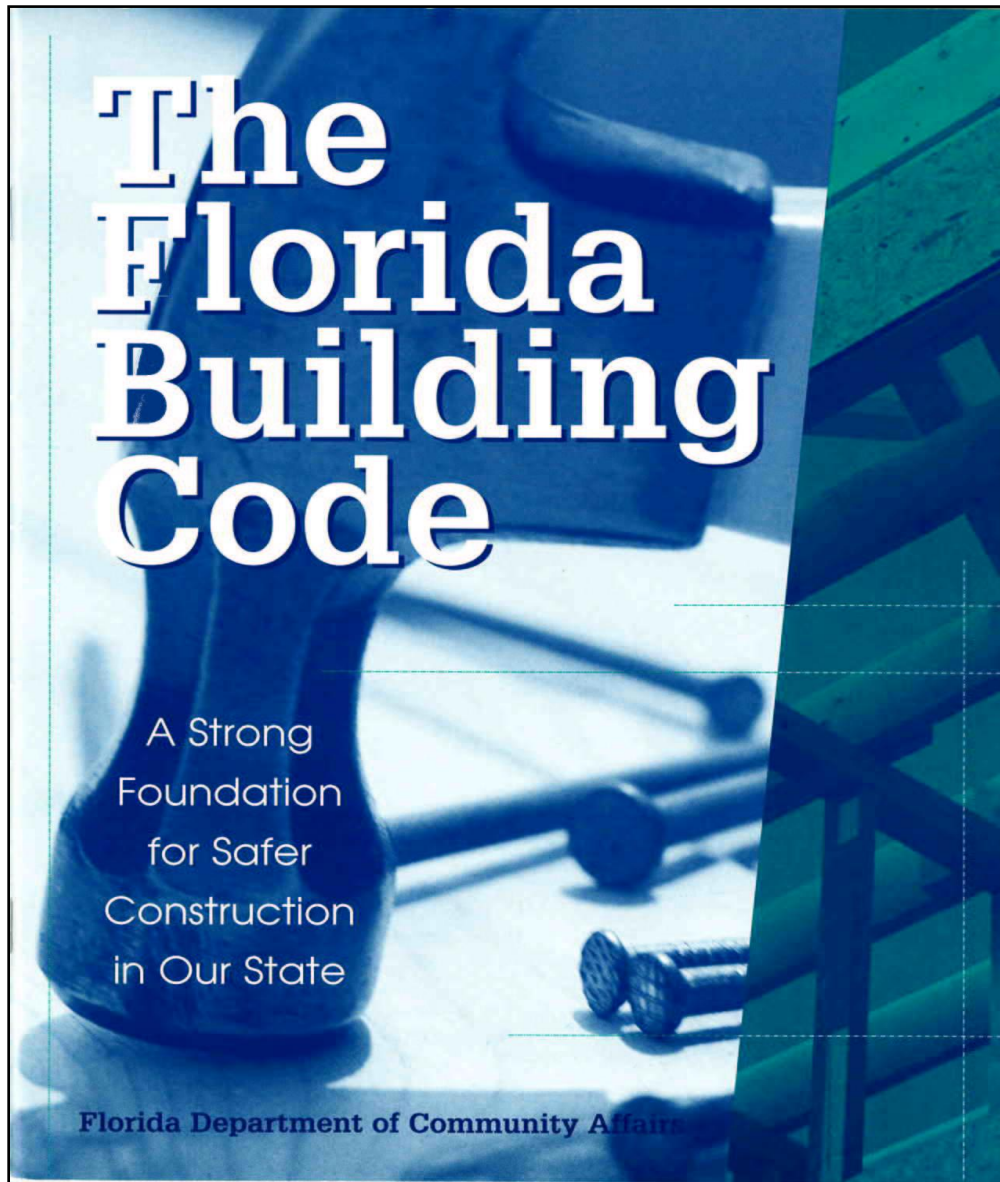
Community Rating System



The Local Mitigation Strategy and the
Department of Environment Resources Management

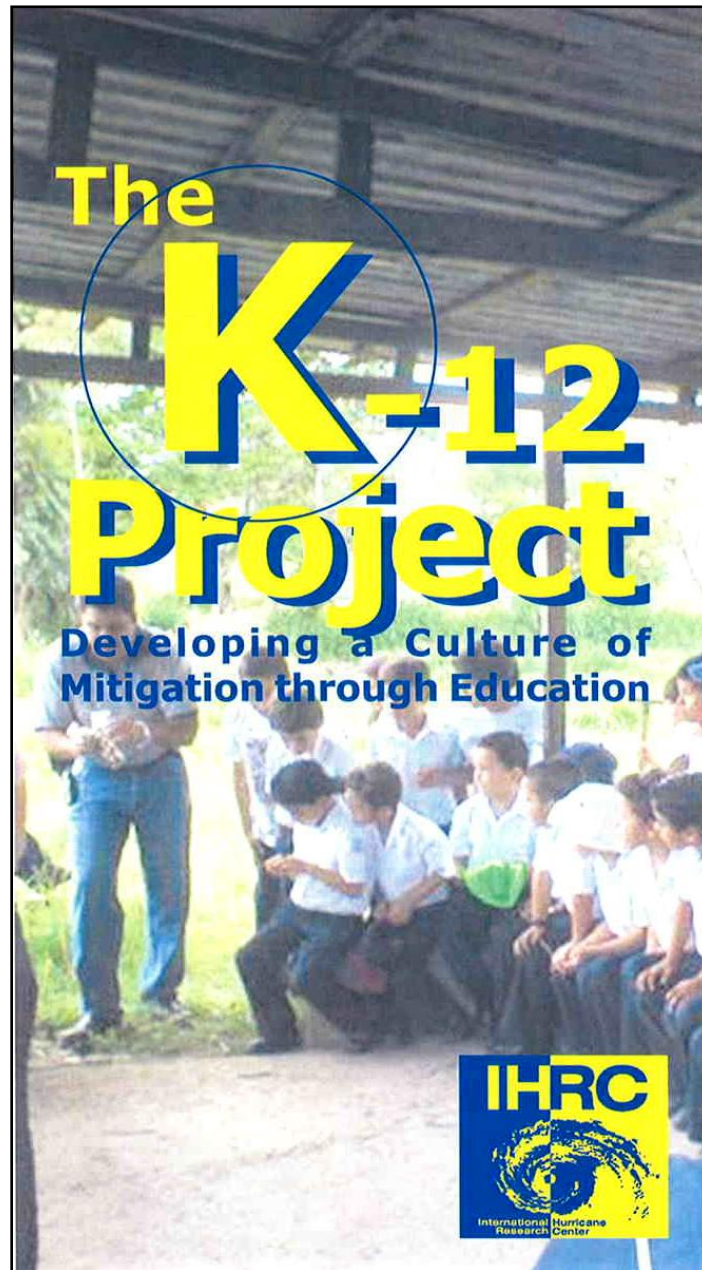


The Florida Building Code



The strong elements of the *South Florida Building Code* were retained in the new *Florida Building Code* as the “High Velocity Hurricane Zone” section of the code. Miami-Dade Building Department and the Miami-Dade Building Code Compliance Office (BCCO) led the effort to keep these strict standards in our county. For this effort, the Miami-Dade Building Code Compliance Office was awarded the national award for mitigation at the National Hurricane Conference in New Orleans in 2003. BCCO is a long-standing partner in the Local Mitigation Strategy.

International Hurricane Research Center



The International Hurricane Research Center at Florida International University is a charter member of the Local Mitigation Strategy Working Group. The K-12 Project is designed to take the concept of mitigation to schoolchildren. The program consists of a series of workshops for teachers as well as mitigation expositions in schools.

Save a Life!



Miami-Dade County has many lakes and canals and at least once a week a vehicle plunges into one, often costing lives. The life-saving tool pictured above combines a seat belt cutter, a flashlight and a center punch to break the vehicle window and escape. These devices are distributed by the Miami-Dade Office of Emergency Management and were funded through the Miami-Dade Local Mitigation Strategy and Project Impact.

The Ring Shank Nail



Professor Ricardo Alvarez and his research and development team at Florida International University recognized that the ring shank nail combined the lift resistance of screws with the shear strength of regular nails. Wind testing confirmed this and now use of the ring shank nail is included in the Florida Building Code and is required for roof installations throughout the High Velocity Hurricane Zone. Mr. Alvarez and FIU are charter members of the Miami-Dade Local Mitigation Strategy Working Group.

Completed Projects 2015-2019

2015 Projects

| Local Mitigation Strategy Project Status Reported 01/2015-12/31/2015 | | | |
|--|--|-----------------|---|
| Completed Projects | | | Funding Source |
| Aventura | NE 29 Place Phase 1 drainage work | \$425,000.00 | FDEP |
| Cutler Bay | Caribbean Boulevard JPA project reduce flooding and increase traffic flow | \$11,173,054.00 | CITT funds |
| Cutler Bay | SW 212 Street Drainage Improvements from SW 87 Ave to SW 85 Ave | \$850,000.00 | TAP & FL Leg. Approp. Grant |
| Emergency Management | Arnold Hall South Engineering Study | \$50,000.00 | State Shelter Retrofit |
| Emergency Management | Reilly Coliseum Engineering Study | \$50,000.00 | State Shelter Retrofit |
| Emergency Management | Edwards Hall Engineering Study | \$50,000.00 | State Shelter Retrofit |
| Emergency Management | Arnold and Edwards Connector Hall Engineering Study | \$50,000.00 | State Shelter Retrofit |
| Emergency Management | Arnold Hall North Engineering Study | \$50,000.00 | State Shelter Retrofit |
| Florida City | Generator for Underground Drainage in Friedland Manor | \$904,7398.82 | CDBG-DR and City Funds |
| Homestead | EOC equipment to support activations | \$450,000.00 | CIF |
| Homestead | Land acquisition for storm water drainage | \$3,000,000.00 | CIP |
| Homestead | Retrofit of City Hall and EOC to Category 5 hurricanes. | \$3,958,500.00 | Hazard Mitigation Grant Program (HMGP) (, EOC Grant, General Fund |
| Homestead | Emergency generators for EOC | \$58,382.00 | New City Hall Building fund |
| Key Biscayne | Erosion Control Implementation | \$10,000.00 | Public Works General fund |
| Key Biscayne | Stormwater outfall rehabilitation on Harbor Drive | \$150,000.00 | Stormwater Utility and grant |
| Miami | Training Center and back up EOC Elevator refurbishment | \$150,000.00 | PDM & PA |
| Miami | Brennan Channel marker replacement | \$65,000.00 | HMGP, PDM |
| Miami Dade College | Hialeah Campus installation of hurricane shutters/window protection Building 1000. | \$250,000.00 | HMGP |

| Local Mitigation Strategy Project Status Reported 01/2015-12/31/2015 | | | |
|---|---|------------------------|--|
| Completed Projects | | | Funding Source |
| Mount Sinai | Purchase twelve synchronized generators to protect patient power supply | \$5,000,000.00 | Grants and Loans for Public Works and Development Facilities, Federal match to state funding |
| Mount Sinai | Relocation of generators for energy facility into hurricane rated enclosure above storm surge | \$8,994,838.00 | State DEM |
| Mount Sinai | Provide hurricane rated structures to protect power equipment and ensure connection to central energy plant | \$7,351,169.00 | HMGP |
| Seaport | Construction of New Seawall - Area 2 | \$9,600,000.00 | FDOT |
| Seaport | Storm Bollards | \$70,115.00 | Seaport Funds |
| Seaport | Concrete Panels | \$619,858.00 | Seaport Funds |
| Sweetwater | Stormwater Improvements Phase IIB North Project | \$1,600,000.00 | US EPA, Miami Dade GOB |
| University of Miami | Hospital wind mitigation and roof tie downs | \$4,100,000.00 | PDM |
| Completed Total | # of Projects: 26 | \$58,960,540.00 | |

| Under Construction | | | Funding Source |
|--------------------|---|-----------------|---|
| Bal Harbour | IT Enhancements to hardware, software and security. | \$170,800.00 | CIF |
| Biscayne Park | New Municipal/Public Safety Building | \$856,000.00 | DEO |
| Coral Gables | Fire Station #3 Hurricane shutters | \$88,000.00 | CIP |
| Cutler Bay | Reduction of Floating Debris | \$60,000.00 | Budgeted annually |
| Cutler Bay | Portable Traffic Control Signs | \$200,000.00 | Grant |
| Cutler Bay | Flood Zone Data GIS System | \$140,000.00 | Stormwater Utility Funds |
| Cutler Bay | Municipal AM Emergency Radio Broadcast Station | \$85,000.00 | Grant |
| Cutler Bay | Removal of Australian Pines and other Exotics | \$100,000.00 | F.Y. 2019-2020 Budget |
| Cutler Bay | Emergency Portable Air Conditioner Units | \$120,000.00 | Grant |
| El Portal | Village of El Portal Stormwater Improvements | \$10,000,000.00 | Emergency Operations Flood and Post Flood Response, FMA |
| Hialeah | Roadway/Stormwater Improvements (SE 4 ST to HIA DR from 6-8 AVE) | \$151,469.00 | City CIFs |
| Hialeah Gardens | Central District Drainage Improvements | \$2,500,000.00 | Flood Control Projects, RFC, HMGP |
| Homestead | Upgrade OCB's (Oil Circuit Breakers) with VCB's (Vacuum Circuit Breakers) | \$150,000.00 | CIP |
| Homestead | Improve Transportation Infrastructure | \$2,000,000.00 | Miami-Dade County Roads and State of Florida Roads |
| Homestead | Wastewater Infiltration/Inflow | \$2,400,000.00 | CIF |
| Homestead | Sidewalks/ Roadway Improvements | \$200,000.00 | CIP |
| Homestead | Improvements to Existing Buildings | \$500,000.00 | CIP |
| Homestead | New Sewer Mains | \$2,000,000.00 | CIF |
| Homestead | Sewer lines in the Northwest Neighborhood and the West Industrial Area | \$3,300,000.00 | CIFs |
| Homestead | Installation of storm shutters and/or Impact Resistant Windows at different locations | \$1,000,000.00 | CIF |
| Homestead | Police Station Security/Hardening | \$50,000.00 | Bond Issue for New Police Station Building |

| Under Construction continued | | | Funding Source |
|-------------------------------------|--|-----------------|--|
| Homestead | City Hall Security Enhancement | \$60,000.00 | New City Hall building fund |
| Homestead | Customer Service & Finance Security Enhancement | \$65,000.00 | New City Hall Building Fund |
| Jackson | Wind Retrofit Project at RTC | \$8,589,588.00 | HMGP Grant |
| Key Biscayne | Traffic Signage & Pavement Marking Improvements Master plan | \$40,000.00 | CIF |
| Key Biscayne | Comprehensive Review of Local Laws and Regulations | \$5,000.00 | Stormwater Utility Fund |
| Miami Beach | Venetian Islands Drainage Improvements | \$9,100,000.00 | Grant Applied For |
| Miami Beach | Drainage Hot Spots | Unknown | Grant |
| Miami Beach | Venetian Islands – Neighborhood Improvements | Unknown | Grant |
| Miami Beach | Sunset Islands 3 & 4 – Neighborhood Improvements | Unknown | Grant |
| Miami Beach | Lower North Bay Road – Neighborhood Improvements | \$14,000,000.00 | City of Miami Beach |
| Miami Beach | Citywide Dune Restoration & Enhancement Project | \$400,000.00 | Beach Erosion Control Projects, Flood Control Projects |
| Miami Gardens | Create GIS Layer for Storm Sewer Infrastructure | \$100,000.00 | Unknown |
| Miami Springs | Removal of Australian Pines | \$14,000.00 | City Budget |
| Mount Sinai | Code Plus Construction Enhancements Surgical Tower | \$6,500,000.00 | FEMA |
| North Miami | Flood Prevention and Mitigation: Drainage Basin13 | \$600,000.00 | City Funds |
| North Miami | Sanitary Sewer Backup | \$700,000.00 | Unknown |
| North Miami | Surge Resistance and Flood Mitigation at Keystone Point and Sans Souci | \$500,000.00 | Unknown |
| North Miami Beach | NE 172nd Drainage Improvement | \$17,916.92 | CIP |
| North Miami Beach | Install Additional Storm Water Basins or Increase Existing Basins | \$60,000.00 | CIP |
| North Miami Beach | Construct Storm Water System that may include Injection Wells in Areas Prone to Flooding | \$120,000.00 | CIP |
| North Miami Beach | Clean and Improve Drainage Systems | \$428,400.00 | CIP |
| North Miami Beach | Eastern Shores Drainage Repair/Replacement | \$450,000.00 | CIP |
| Palmetto Bay | Flood Zone Data Maintenance: GIS System | \$100,000.00 | General Funds |
| Palmetto Bay | Localized Drainage Improvements | \$900,000.00 | CIP |

| Under Construction continued | | | Funding Source |
|--|---|-------------------------|-----------------------|
| Public Housing and Community Development | Haley Sofge Towers | \$1,000,000.00 | Mitigation Grant, CIP |
| Public Housing and Community Development | Haley Sofge Towers | \$2,056,321.00 | Mitigation Grant, CIP |
| Sweetwater | South Florida Water Management District Flood Protection Berm | \$1,000,000.00 | SFWMD |
| West Miami | Impact Resistant Windows for City Hall | \$50,000.00 | CDBG |
| Under Construction Total | # of Projects: 50 | \$ 60,732,894.92 | |

| Funded - Not Yet Started | | | |
|---------------------------------|---|----------------|---|
| MD Public Works | SW 157 AVE Canal Interconnect | Unknown | CIP |
| Aventura | Stormwater Drainage Projects | Unknown | CIP |
| Coral Gables | Basin Inflow and Infiltration Upgrade | \$1,179,793.00 | FDEP Grant |
| Cutler Bay | Preventive Pruning of Existing Town Tree Inventory | \$285,000.00 | Budgeted F.Y. 2016 - 2017 |
| Cutler Bay | Debris Removal | \$400,000.00 | Unknown |
| Cutler Bay | Storm Water Outfalls | \$500,000.00 | Stormwater Utility Fund |
| Doral | Installation of Transfer Switch at Morgan Levy Park for Emergency Power | \$50,000.00 | PDM, City General Fund |
| Doral | Stormwater Improvements 5-Year CIP: Year 2 | \$1,017,150.00 | FDOT Grant |
| Doral | NW 33 St. from NW 82 Ave. to NW 79 Ave. Roadway Improvements | \$1,600,000.00 | HMGP |
| Hialeah | Roadway Reconstruction (W 8-10 Ave from W 31-33 Street) | \$2,190,724.00 | CDBG |
| Homestead | New Sewer Mains: To upgrade sewer main/lines to eliminate raw sewage from leaking into the water table. | \$2,000,000.00 | CIF |
| Jackson | JMH Campus Wide Roof Replacement | \$2,500,000.00 | Jackson's Bond Referendum 11/05/2013 |
| Jackson | Utility/Energy Center at JMH | \$5,290,000.00 | CIP |
| Jackson | Emergency Switchgear Replacements at JNMC | \$6,950,000.00 | GOB 2005 & Jackson's Bond Referendum 11/05/2013 |
| Jackson | Volt Oil Switch Replacements | \$7,350,000.00 | Internal Funding |
| Key Biscayne | Coastal Dune Vegetation | \$10,000.00 | CIF |
| Key Biscayne | New Stormwater Outfall Construction | \$210,000.00 | Private Funding |
| Key Biscayne | Drainage Improvements on Fernwood Road & Hampton Road | \$80,000.00 | Stormwater Utility Fund Capital Expenditures |
| Key Biscayne | Flap Gates at Outfalls (Backflow Prevention) | \$750,000.00 | Stormwater Utility Capital Expenditures |
| MD Public Works | NW 19 Avenue and NW 84 Street | \$120,000.00 | HMGP, Storm Water Utility Fees (SWU) |
| MD Public Works | NW 39 Street and NW 25 Avenue | \$130,000.00 | Internal Funding |
| MD Public Works | NE 6 AVE& NE 185 Street; NE Miami CT, from NE 196-198 ST; NW 22 AVE & NW 175 ST; North DR & NE 14 AVE | \$835,000.00 | Stormwater Utility Capital Expenditures |

| Funded - Not Yet Started | | | |
|---------------------------------|--|--------------------------|------------------------------|
| MD Public Works | Seaboard Acres Pump Station | \$1,500,000.00 | FDOT - |
| MD Public Works | Larchmont Gardens Pump Station | \$1,671,841.00 | Other Internal Funding |
| MD Public Works | NE 149 Street, from NE 10 Ave to NE 14 Ave | \$340,000.00 | |
| Mount Sinai | Code Plus Construction Energy Center Facility Protect Redundant Power Supply | \$250,000.00 | Internal Funding |
| Mount Sinai | Code Plus Construction Enhancements New Medical Office Tower | \$3,750,000.00 | Private and bond funding |
| Mount Sinai | Elevate Seawall | \$8,000,000.00 | DOH and USACE Section 14 |
| North Miami Beach | Dead End Eliminations | \$42,000.00 | CIP |
| North Miami Beach | Drainage in Alleyways | \$50,000.00 | CIP |
| North Miami Beach | Leak Detection Services | \$50,000.00 | CIP |
| North Miami Beach | Storm Water Pump Replacement Program | \$50,000.00 | CIP |
| North Miami Beach | Force Main Installations and Lift Stations Rehabilitations | \$125,000.00 | CIP |
| North Miami Beach | Pump Replacements | \$165,000.00 | CIP |
| North Miami Beach | Inflow and Infiltration Prevention | \$250,000.00 | CIP |
| North Miami Beach | Fire Flow Improvements | \$320,000.00 | CIP |
| North Miami Beach | Trenchless Pipe Replacements | \$325,000.00 | CIP |
| North Miami Beach | Roadway Improvements | \$327,000.00 | CIP |
| North Miami Beach | Storm Water Improvement City-Wide | \$336,885.00 | CIP |
| North Miami Beach | Aerial Pipe Crossings | \$350,000.00 | CIP |
| Pinecrest | Purchase of Portable Two-Way Radios | \$110,000.00 | Internal Funding |
| Virginia Gardens | VG - NW 40 street Stormwater Improvement Project | \$697,000.00 | Grants, FDOT |
| Virginia Gardens | VG - 66 avenue storm drain, ADA, and road widening project | \$650,000.00 | State of Florida legislation |
| Funded - Not Yet Started | # of Projects: 43 | \$ 51,281,944.00 | |
| Total Projects | 129 | \$ 170,975,378.92 | |

2016 Projects

| Local Mitigation Strategy Project Status Reported 01/2016-12/31/2016 | | | |
|---|---|-----------------|---|
| Completed Projects | | Cost | Funding Source |
| Cutler Bay | SW 216th Street and SW 97th Ave Traffic Circle | \$204,486.00 | Budgeted |
| Homestead | New Sewer Mains | \$2,000,000.00 | CIP |
| Homestead | Installation of storm shutters and/or Impact Resistant Windows at different locations | \$1,000,000.00 | CIP |
| Homestead | Customer Service & Finance Security Enhancement | \$65,000.00 | New City Hall Build. Fund |
| Homestead | Portable mobile pumps | \$500,000.00 | CIP |
| Homestead | Storm water telemetry system | \$900,000.00 | CIP |
| Homestead | City Hall Security Enhancement | \$60,000.00 | New City Hall Build. Fund |
| Homestead | Secure three (3) existing water tanks from structural damage | \$600,000.00 | CIP |
| Jackson | JMH Campus Wide Roof Replacement | \$2,500,000.00 | Bond Referendum |
| Key Biscayne | Traffic Signage & Pavement Marking Improvements Master plan | \$40,000.00 | CIP |
| Key Biscayne | Village K-8 Center Stormwater Pump Station | \$350,000.00 | HMGP, Stormwater Utility Fund |
| Miami | Training Center Elevator Refurbishment | \$150,000.00 | PDM, Public Assistance Program |
| Miami Beach | Lower North Bay Road – Neighborhood Improvements | \$14,000,000.00 | City of Miami Beach |
| Miami Lakes | Lake Martha Drainage Improvements | \$1,260,000.00 | Grants Storm Utility and Transportation Funds |
| Palmetto Bay | Drainage Improvements for Sub-Basin # 6 | \$490,000.00 | Public Works and Economic Development Program, Stormwater Utility |
| Palmetto Bay | Drainage Improvements for Sub-Basin # 3 | \$250,000.00 | PWIP, Stormwater Utility, Grants |
| Palmetto Bay | Localized Drainage Improvements | \$900,000.00 | Stormwater Utility/Grant |
| Palmetto Bay | Back-Up Generators and Transfer Switches | \$75,000.00 | Special Rev. Funds |
| M-D Public Works | SW 82 Ave from Flagler to SW 2 St | \$109,000.00 | SWU |
| M-D Public Works | Miller Road Drainage Retrofit | \$368,063.00 | SWU |
| M-D Public Works | NE 146 St between NE 12 Ave and NE 14 Ave | \$216,880.91 | SWU |

| Local Mitigation Strategy Project Status Reported 01/2016-12/31/2016 | | | |
|---|---|----------------|---------------------------------|
| Completed Projects | | Cost | Funding Source |
| M-D Public Works | Starlight Development, Ph. I Drainage Improvement (NW 207 Dr - NW 206 Ter from NW 44 Ct - 47 Ave) | \$682,280.00 | QNIP/SWU |
| M-D Public Works | Repetitive Loss Area - Arch Creek | \$4,528,519.02 | HMGP/QNIP |
| M-D Public Works | Drainage Improvement Project Multiple Sites - NW 69 Street from NW 32 Avenue to NW 35 Ave; NW 75 Street and NW 16 Ave ;SW 116 Ave and SW 185 Street ;SW 115 Ave & SW 185 St | \$250,000.00 | Unknown |
| M-D Public Works | NW 185-191 St & NW 44-47 Ave (King's Gardens) [MP 8020, 8023, 623] | \$722,381.00 | QNIP/SWU |
| M-D Public Works | NPDES OUTFALL (53-41-12-NE001C) | \$386,747.00 | QNIP/SWU |
| M-D Public Works | NW 178 Street to NW 176 Street from NW 82 Avenue to NW 78 Avenue Drainage Improvement Project (Norman and Jean Beach Park ROW Drainage | \$650,000.00 | SWU |
| M-D Public Works | NPDES OUTFALL North Miami Ave from NE 91 St to Little River Canal | \$141,923.00 | QNIP/SWU |
| M-D Public Works | NW 178 Terrace from NW 47 Avenue to NW 48 Court Drainage Improvement Project | \$116,275.00 | SWU |
| M-D Public Works | NW 191 St from NW 2 -9 Ave Drainage Improvement | \$401,695.00 | QNIP/SWU |
| M-D Public Works | NW 20 St. from NW 33 -37 Ave | \$401,695.00 | QNIP/SWU |
| M-D Public Works | NW 20 Street and NW 15 Avenue | \$146,519.41 | SWU |
| M-D Public Works | NW 27-32 Ave & NW 191-199 St | \$229,694.00 | QNIP/SWU |
| M-D Public Works | NW 35 Avenue from NW 73 Street to NW 74 Street Drainage Improvement Project. | \$126,228.00 | SWU |
| M-D Public Works | NW 46 St to NW 53 St from NW 17-24 Ave (Allapatah, Phase II) [9060,9123] | \$873,000.00 | QNIP/SWU |
| M-D Public Works | NW 46 St to NW 54 St from NW 32 Ave to NW 35 Ave [624,7081,7080] | \$245,129.00 | QNIP/SWU |
| M-D Public Works | NW 53 Terrace from NW 69 Avenue to NW 72 Avenue | \$247,989.99 | SWU |
| M-D Public Works | Oleta River - NE 183 Terrace from NE 23 Court to NE 24 Avenue | \$183,326.00 | SWU |
| M-D Public Works | Palm Springs North, Phase I | \$435,739.00 | QNIP/SWU |
| M-D Public Works | Palm Springs North, Phase II | \$340,423.00 | QNIP/SWU |
| M-D Public Works | Palm Springs North, Phase III | \$261,205.00 | QNIP/SWU |
| M-D Public Works | Pump Stations Improvement Service Contract (various pump stations sites) | \$500,000.00 | SWU |
| M-D Public Works | PWD Project No. 20070696) | \$2,981,645.00 | RIF |
| M-D Public Works | PWD Project No. 20090089 JPA with Town of Cutler Bay PTP | \$519,794.00 | JPA with Town of Cutler Bay PTP |
| M-D Public Works | Queen's Park Drainage Improvements, NW 114 St & NW 19 Ave | \$48,894.00 | QNIP/SWU |
| M-D Public Works | Rucks Park Pump Station Improvements (NE 138 St & NE 4 Ave) [S:\ 4030, 610] | \$540,000.00 | QNIP/SWU |

| Local Mitigation Strategy Project Status Reported 01/2016-12/31/2016 | | | |
|---|--|----------------|-----------------------|
| Completed Projects | | Cost | Funding Source |
| M-D Public Works | S.W. 82nd Avenue between S.W. 48th Street & S.W. 56th Street Drainage Improvement | \$65,877.00 | SWU |
| M-D Public Works | San Mateo, Phase I (NW 67 - 74 Ave from NW 169 Ter - 167 St) [8060] [780] | \$546,000.00 | QNIP/SWU |
| M-D Public Works | San Mateo, Phase II (NW 82 - 87 Ave from NW 170 - 171 ST) [8060] | \$441,000.00 | QNIP/SWU |
| M-D Public Works | San Mateo, Phase III (NW 78 - 82 Ave from NW 170 - NW 171 ST) [8060] | \$626,100.00 | QNIP/SWU |
| M-D Public Works | San Sebastian Drainage Improvement Project - SW 42 Street to SW 47 Street between SW 132 Avenue to SW 133 Avenue | \$911,000.00 | QNIP/SWU/G OB |
| M-D Public Works | San Sebastian Phase I Drainage Improvement Project - SW 42 Street to SW 47 Street between SW 132 Ave - SW 133 Ave | \$286,000.00 | QNIP/SWU |
| M-D Public Works | San Simeon Way from NE 215 ST to NE 205 ST | \$729,145.00 | SWU |
| M-D Public Works | Seaboard Acres Ditch Enclosure (NE 4 Ave from NE 141 St & 142 St) | \$350,000.00 | QNIP/SWU |
| M-D Public Works | Serena Lakes and Stonewood Area: SW 137 CT from SW 181 ST to SW 181 TER | \$50,731.00 | QNIP/SWU |
| M-D Public Works | Serena Lakes and Stonewood Area: SW 138 PL-138 CT from SW 180 ST to SW 184 ST | \$133,241.00 | QNIP/SWU |
| M-D Public Works | Serena Lakes and Stonewood Area: SW 139 PL-139 Path from SW 180 ST to 184 ST | \$262,078.00 | QNIP/SWU |
| M-D Public Works | Serena Lakes and Stonewood Area: SW 144 PL from SW 172 ST to Cul de Sac (Additional Site) | \$29,175.00 | QNIP/SWU |
| M-D Public Works | Serena Lakes and Stonewood Area: SW 168 ST from SW 141 CT to SW 143 PI (Site 9) | \$122,278.00 | QNIP/SWU |
| -D Public Works | Serena Lakes, SW 137 - 142 Ave & SW 180 - 172 St. | \$1,628,829.00 | SWU |
| M-D Public Works | South Miami Ave from SW 21 Rd to SW 25 Rd | \$495,429.00 | SWU |
| M-D Public Works | South Miami, Phase 1-C / Phase 2 (SW 62 Ave - SW 74 Ave from SW 40 St - SW 50 St) [3081,3086] | \$846,726.00 | QNIP/SWU |
| M-D Public Works | Starlight Development, Ph. 2 Drainage Improvement (NW 207 Dr - 200 St from NW 39 Ct - 44 Ct) [S:\ 615,6005,6020, 6000] | \$687,654.00 | QNIP/SWU |
| M-D Public Works | Streamland Gardens Drainage Improvement Project (NW 32 AV & NW 24 ST RD) | \$195,431.73 | SWU |
| M-D Public Works | Sunshine Industrial Park Drainage Improvement Project (NW 159 Drive between NW 8 Ave to NW 12 Ave) | \$600,000.00 | SWU |
| M-D Public Works | SW 100 Avenue and SW 30 Street Drainage Improvement Project (10010 SW 30 Street) | \$50,000.00 | SWU |

| Local Mitigation Strategy Project Status Reported 01/2016-12/31/2016 | | | |
|---|---|----------------|-----------------------|
| Completed Projects | | Cost | Funding Source |
| M-D Public Works | SW 100 Terrace and SW 117 Avenue Drainage Improvement Project (11624 SW 100 Terrace) | \$100,000.00 | SWU |
| M-D Public Works | SW 122nd Avenue & SW 10th Street {340} | Unknown | SWU |
| M-D Public Works | SW 128 ST FROM SW 122 AVE TO THE CUL-DE-SAC | \$177,214.00 | SWU |
| M-D Public Works | SW 94 Avenue between SW 8 Street to SW 15 St. | \$312,150.95 | SWU |
| M-D Public Works | SW 95 Street and SW 112 Avenue | \$50,000.00 | SWU |
| M-D Public Works | SW 129 Ave - 135 Ave & SW 256 St - 268 St (Meadowood/Cedar Creek Phase II) | \$308,900.00 | QNIP/SWU |
| M-D Public Works | SW 134 Avenue and SW 26 Street (Matos) | \$30,000.00 | SWU |
| M-D Public Works | SW 137 Ave between SW 56 St and SW 72 St | \$592,190.21 | ARRA/SWU |
| M-D Public Works | SW 139 Ave from SW 8 to SW 42 St [9070] | \$1,795,000.00 | SWU/QNIP |
| M-D Public Works | SW 176 Terr and SW 142 Ct (14242 SW 176 Terr) | \$100,000.00 | SWU |
| M-D Public Works | SW 2 St & SW 136 Pl | \$57,810.00 | QNIP/SWU |
| M-D Public Works | SW 21 Street between SW 67 Avenue and SW 71 Avenue (7036-38 SW 21 St) | \$82,829.91 | SWU |
| M-D Public Works | SW 252 Ter - 256 St & SW 124 Ave - SW 127 Ave (Meadowood/Cedar Creek Phase III) | \$554,716.41 | QNIP/SWU |
| M-D Public Works | SW 260 ST from SW 139 Ave to SW 139 CT | \$372,560.00 | Unknown |
| M-D Public Works | SW 34 St and SW 89 CT | \$83,561.00 | SWU |
| M-D Public Works | SW 60 STREET & SW 70 AVENUE (6015 SW 70 AVENUE) | \$120,000.00 | SWU |
| M-D Public Works | SW 64 St & SW 67 Ave {5095} | \$85,050.00 | SWU |
| M-D Public Works | SW 70 Avenue to SW 71 Avenue from SW 12 Street to SW 13 Street – Drainage Improvement | \$319,748.00 | GOB |
| M-D Public Works | SW 12 Street and SW 73 Place Drainage Improvement Project | \$110,400.00 | SWU |
| M-D Public Works | SW 73 Avenue and SW 12 Street | \$59,053.00 | SWU |
| M-D Public Works | SW 74 Avenue from SW 42 Street to Rail Road Crossing | \$322,317.86 | SWU |
| M-D Public Works | SW 76 Avenue from SW 10 Street to SW 12 Street | \$111,705.00 | GOB/SWU |
| M-D Public Works | SW 82 Street from SW 76 Ave to SW 74 Ave | \$11,500.00 | SWU |
| M-D Public Works | SW 87 AVE & SW 200 ST | \$163,000.00 | SWU |
| M-D Public Works | SW 89 Avenue and SW 131 Street - Drainage Improvement Project | \$278,034.00 | GOB 77456 |
| M-D Public Works | SW 97 Ct & SW 1 St | \$18,859.00 | QNIP/SWU |
| M-D Public Works | Swale Blocks at NE 172 ST & NE 10 AVE | \$70,000.00 | SWU |
| M-D Public Works | N.W. 17th Avenue between N.W. 29th Street & N.W. 35th Street Drainage Improvement Project | \$60,920.54 | PTP/SWU |
| M-D Public Works | NE 15 court between NE 205 st & NE 199 St | \$326,569.28 | SWU |

| Local Mitigation Strategy Project Status Reported 01/2016-12/31/2016 | | | |
|---|--|----------------|-----------------------|
| Completed Projects | | Cost | Funding Source |
| M-D Public Works | NE 171 Street and NE 11 Court Drainage Improvement Project | \$125,000.00 | SWU |
| M-D Public Works | NE 147 St from NE 12 - 14 Ave | \$120,000.00 | QNIP/SWU |
| M-D Public Works | NE 131 Lane and NE 16 Avenue | \$150,000.00 | SWU |
| M-D Public Works | NW 27 Avenue and NW 21 Street Drainage Improvement Project | \$193,587.00 | SWU |
| M-D Public Works | NW 12 Avenue from NW 186 St to NW 195 St Drainage Improvement | \$223,225.00 | QNIP/SWU |
| M-D Public Works | NW 10 Ave from NW 103 ST-NW 100 ST | \$69,260.08 | SWU |
| M-D Public Works | NPDES OUTFALL NW 22 Ave from NW 124 St - 139 St | \$664,196.00 | QNIP/SWU |
| M-D Public Works | North Miami Avenue from NE 87 St. to 105 St. | \$157,785.32 | WO# 1 |
| M-D Public Works | New Little River Drainage Improvement Project | \$482,816.23 | QNIP/SWU |
| M-D Public Works | NE 89th Street & Bayshore Drive | \$340,308.91 | SWU |
| M-D Public Works | NE 88 Terr from Biscayne Blvd to east end of road | \$55,000.00 | SWU |
| M-D Public Works | NE 5 Court and NE 147 Street (14730 NE 5 Court) | \$15,000.00 | SWU |
| M-D Public Works | NE 5 Avenue from NE 143 Street to NE 145 Street Drainage Improvement Project. | \$120,000.00 | SWU |
| M-D Public Works | NE 2nd Avenue between NE 116th Street and NE 117th Street Drainage Improvement Project | \$195,125.24 | SWU |
| M-D Public Works | Palm Springs North, Phase IV (NW 170 St - 181 Terr from NW 75 Pl - 79 Ave | \$122,598.00 | QNIP/SWU |
| M-D Public Works | Oak Brooke - SW 160 Street - SW 180 Street between SW 102 - SW 112 Avenue | \$2,074,318.42 | SWU |
| M-D Public Works | NW 46 Street to NW 52 Street from NW 35 Ave to NW 37 Ave | \$903,329.00 | QNIP/SWU |
| M-D Public Works | NW 109 Street from NW 11 Avenue to NW 10 Avenue | \$159,000.00 | SWU |
| M-D Public Works | NW 93 Street and Little River Boulevard Drainage Improvement Project | \$166,764.65 | SWU |
| M-D Public Works | NW 67 Street from NW 32 Ave to NW 33 Ave | \$190,000.00 | SWU |
| M-D Public Works | NW 65 St W/O NW 18 Ave | \$34,000.00 | SWU |
| M-D Public Works | NW 143 Street from NW 7-17 Ave | \$261,251.00 | QNIP/SWU |
| M-D Public Works | NW 82 Avenue from West Flagler Street to NW 3 Street MIDWAY ADDITION Phase I | \$325,000.00 | SWU |
| M-D Public Works | OCL1-103, C-8 Basin Project (NW 22 Ave from SR 9 to N. Burlington St) | \$145,200.00 | QNIP/SWU |
| M-D Public Works | NW 99 Street from NW 21 Avenue to NW 22 Avenue Drainage Improvement Project | \$93,492.00 | SWU |
| M-D Public Works | NW 117 St From NW 12 Ave to NW 14 Ave Drainage Improvements | \$120,000.00 | SWU |
| M-D Public Works | NE 214 Street and NE 20 Court | \$100,000.00 | SWU PTP |

| Local Mitigation Strategy Project Status Reported 01/2016-12/31/2016 | | | |
|---|---|----------------|-----------------------|
| Completed Projects | | Cost | Funding Source |
| M-D Public Works | NE 208 Terr. & NE 26 Ave. Drainage Improvement | \$106,268.00 | QNIP/SWU |
| M-D Public Works | NE 201 Street and NE 25 Avenue Drainage Improvement Project | \$30,000.00 | SWU |
| M-D Public Works | SW 128 ST from SW 127 Ave and SW 125 Ave | \$15,000.00 | SWU |
| M-D Public Works | NE 18 PL from NE 211th Terrace to NE 214th Terrace | \$623,891.52 | SWU |
| M-D Public Works | SW 31 Street from SW 65 Avenue to SW 67 Avenue Drainage Improvement Project | \$124,281.00 | SWU |
| M-D Public Works | SW 160 Terr from SW 139 Ave to SW 140 Ct, | \$95,000.00 | SWU |
| M-D Public Works | SW 288-296 St & SW 152-157 Ave (Leisure City, Phase I & Phase II) | \$984,854.00 | QNIP/SWU |
| M-D Public Works | SW 27 Avenue from US-1 to Bayshore Drive (Phases I & II) | \$4,039,657.00 | PTP |
| M-D Public Works | NW 96 ST FROM NW 13 AVE TO NW 14 AVE | \$119,660.00 | SWU |
| M-D Public Works | NW 95 Street from NW 2nd Avenue to NW 6th Avenue | \$540,357.00 | SWU |
| M-D Public Works | NW 95 Terr Between NW 13 Ave to NW 14 Ave | \$64,579.24 | SWU |
| M-D Public Works | NW 78 Ave to NW 84 Ave from NW 7 ST to NW 10 Midway Pump Station | \$4,965,866.25 | GOB/SWU |
| M-D Public Works | NW 82 Avenue from NW 3 Street to NW 7 Street (Midway Add. Phase II) and NW 3 Street from NW 82 Avenue to NW 84 Avenue (Midway Add. Phase III) | \$598,306.00 | SWU / QNIP |
| M-D Public Works | NW 41 St to NW 54 St from NW 19-24 Ave (Allapatah, Phase I) | \$2,973,676.50 | QNIP/SWU |
| M-D Public Works | NW 65 St E/O NW 18 Ave | \$42,000.00 | SWU |
| M-D Public Works | NW 64 St from NW 21 Ave to NW 20 Ave | \$44,000.00 | SWU |
| M-D Public Works | NW 50 St from NW 69 Ave to NW 72 Ave | \$100,000.00 | SWU |
| M-D Public Works | NW 101 ST from NW 23 AVE to NW 22 AVE | \$112,529.41 | SWU |
| M-D Public Works | NW 105 Terrace from NW 11 Avenue to NW 12 Avenue | \$80,000.00 | SWU |
| M-D Public Works | NW 105 Street and NW 19 | \$104,978.33 | SWU |
| M-D Public Works | NW 106 Street from NW 12 Ave to NW 10 Ave | \$270,366.00 | GOB/SWU |
| M-D Public Works | NE 110 Street from NE 2 to NE 3 Ave Drainage Improvement Project | \$60,920.54 | SWU |
| M-D Public Works | Telemetry Network Installation including 28 Satellite Canal Level Recorders and Rain Gauges | \$1,100,000.00 | GOB/SWU |
| M-D Public Works | The Tropics Drainage Improvements (NW 35 Ave - NW 36 Ave from NW 97 St - NW 101 St) | \$98,382.00 | QNIP/SWU |
| M-D Public Works | Tropical Estates Phase 3- SW 99 Ct to SW 102 Ave from SW 52 Terr to SW 55 St | \$330,000.00 | SWU |

| Local Mitigation Strategy Project Status Reported 01/2016-12/31/2016 | | | |
|---|--|----------------|-----------------------|
| Completed Projects | | Cost | Funding Source |
| M-D Public Works | Tropical Estates Phase 4 SW 98 Avenue to SW 102 Avenue from SW 48 Street to SW 51 Terrace | \$229,120.00 | SWU |
| M-D Public Works | Tropical Estates Sub. Phase 1 & 2 - SW 56 Street to SW 49 Street from SW 97 Ave to SW 98 Court | \$438,927.00 | SWU |
| M-D Public Works | Twin Lakes (CC7-N-10, Project 9), Phase I / Twin Lakes, Phase 2 (NW 99 St - NW 102 St NW 12 – 14 Ave - NW 14 Ave | \$460,857.00 | QNIP/SWU |
| M-D Public Works | West Miami Lakes, Phase II [3065B] | \$306,158.00 | QNIP/SWU |
| M-D Public Works | Wynona Park Drainage Improvement (NW 7 - 8 St from NW 72 - 76 Ave) [602] | \$327,683.00 | QNIP/SWU |
| M-D Public Works | Highland Lakes Blvd., Ph. III | \$609,331.00 | QNIP/SWU |
| M-D Public Works | Highland Lakes, Ph. I-A, I-B-1& I-B-2 | \$561,597.00 | QNIP/SWU |
| M-D Public Works | J. G. Head Farms, SW 26 - 40 St. & SW 127 - 132 Ave | \$746,709.00 | QNIP/SWU |
| M-D Public Works | JG Head Farms Phase II C | \$1,350,180.00 | GOB/SWU |
| M-D Public Works | Miami River Outfall Retrofit, Basin 21 | \$2,600,000.00 | QNIP/SWU |
| M-D Public Works | Country Lake Manors, Sec. 2 Drainage Improvement (NW 200 St - NW 201 Ln from NW 57 Ct - NW 58 Pl) | \$317,505.00 | QNIP/SWU |
| M-D Public Works | CRS RL-6 Drainage Improvement | \$182,477.76 | SWU |
| M-D Public Works | Coral Gables Waterway Canal, Phase II, III, IV, V, VI & VII. Agreement 2. | Unknown | SWU |
| M-D Public Works | Larchmont Backflow Preventors | \$82,000.00 | QNIP/SWU |
| M-D Public Works | Country Walk (Basin 3) [5071 B, 614, 5071A] | \$565,582.00 | SWU |
| M-D Public Works | Country Walk (Basin 5) [5073a, 5073] | \$981,869.00 | SWU |
| M-D Public Works | Country Walk Site 1 (SW 152 Ct from SW 150 St - 151 Ter) | \$123,300.00 | SWU |
| M-D Public Works | Country Walk (Basin 6) [641, 5074] | \$1,154,809.00 | SWU |
| M-D Public Works | Ives Dairy Rd. & NW 199 St Pollution Control Structure | \$61,000.00 | SWU |
| M-D Public Works | Coral Way & Granada | \$30,000.00 | SWU |
| M-D Public Works | 193 Polygon 221A Coral Gables Waterway Canal, Phase VIII, IX, X, XI & XII, XIII, XIV, XV,XVI. | \$6,533,000.00 | SWU/NRCS Grant |
| M-D Public Works | HIGHLAND LAKES PHASE 4 | \$263,225.00 | QNIP/SWU |
| M-D Public Works | Country Walk (Basin 7) [641, 5074] | \$1,154,809.00 | SWU |
| M-D Public Works | Highland Lakes, Ph. II | \$171,866.00 | QNIP/SWU |
| M-D Public Works | Kendall Point Drainage Improvement (SW 86 Ave - SW 83 Ave from SW 87 St - SW 84 St) | \$676,979.00 | QNIP/SWU |
| M-D Public Works | Melrose St | \$130,000.00 | QNIP/SWU |
| M-D Public Works | Leisure City Phase I | \$29,300.00 | SWU |
| M-D Public Works | LAKES OF ACADIA | \$141,784.71 | SWU |
| M-D Public Works | Country Walk (Basin 2) | \$565,582.00 | SWU |
| M-D Public Works | Coral Gables Loop Phase 1 & 2 | \$800,000.00 | SWU/NRCS/SFWMD |
| M-D Public Works | Broadmor Manor (NW 102 Street from NW 22 Avenue to NW 24 Avenue) | \$120,965.40 | SWU |

| Local Mitigation Strategy Project Status Reported 01/2016-12/31/2016 | | | |
|---|---|----------------|-----------------------|
| Completed Projects | | Cost | Funding Source |
| M-D Public Works | Biltmore Park | \$695,000.00 | SWU |
| M-D Public Works | Belen Phase IIIA | \$1,600,000.00 | SWU |
| M-D Public Works | Belen Phase I | \$1,328,614.00 | SWU |
| M-D Public Works | Bel-Aire Drainage Improvements (SW 184 - 190 St from SW 82 - 97 Ave) | \$1,337,000.00 | QNIP/SWU |
| M-D Public Works | Basin 4 | \$877,200.00 | SWU |
| M-D Public Works | 234 Polygon 280A American Homes Drainage Improvement (SW 152 St - SW 157 St from SW 144 Ct -Black Creek Canal) [1011] QNIP/SWU SW 144 Ave & SW 154 Terr C1-C-12 C-1 | \$562,029.00 | QNIP/SWU |
| M-D Public Works | Meadow Wood Phase 4A | \$701,583.00 | QNIP/SWU |
| M-D Public Works | Miami River Outfall Retrofit, Basin 23, Ph. 1 & 2 | \$842,873.00 | QNIP/SWU |
| M-D Public Works | Belen Phase III | \$2,600,000.00 | SWU |
| M-D Public Works | Carol City Canal Culvert at NW 39 Ave and NW 199 ST. | \$755,734.00 | QNIP/SWU |
| M-D Public Works | Coral Way to Bird Road SW 67 Ave to SW 72 Ave | \$102,785.00 | SWU |
| M-D Public Works | Drainage Improvement Project Multiple Sites (SW 118 Ave and SW 10 ST) | \$41,382.00 | SWU |
| M-D Public Works | Driveway approach reconstruction near NW 52 Avenue and NW 190 Street | \$5,000.00 | SWU |
| M-D Public Works | Brownsville Site 2, 3125 NW 48 TERR | \$93,501.00 | QNIP/SWU |
| M-D Public Works | Brownsville Site No. 5, 4500 NW 33 Ave | \$75,000.00 | QNIP/SWU |
| M-D Public Works | Blue Lagoon from NW 57 Ave to NW 62 Ave Drainage Improvements | \$432,584.00 | SWU |
| M-D Public Works | Arch Creek Estates Drainage Improvements (NE 142 - 149 St from NE 14 - 18 Ave) | \$4,720,000.00 | QNIP/SWU |
| M-D Public Works | NW 22 CT FROM NW 128 ST TO EAST GOLF DR. | \$32,191.00 | SWU |
| M-D Public Works | Lawrence Waterway @ NW 7 St / 18 Ave. | \$73,063.00 | QNIP/SWU |
| M-D Public Works | Miller Dr. from SW 132 AVE to SW 134 PL | \$200,000.00 | SWU |
| M-D Public Works | Brownsville Site No. 6, 3295 NW 43 Terr | \$69,000.00 | QNIP/SWU |
| M-D Public Works | 13200 block of SW 6 ST | \$19,000.00 | QNIP/SWU |
| M-D Public Works | Brownsville Site 1, | \$79,283.00 | QNIP/SWU |
| M-D Public Works | Mini-Warehouses Drainage Improvement | \$59,569.00 | QNIP/SWU |
| M-D Public Works | High Pines Phase II | \$2,300,000.00 | SWU |
| M-D Public Works | Drainage Retrofit of Arterial Roadways Project | \$800,000.00 | SWU |
| M-D Public Works | Drainage Improvement Project Multiple Sites | \$222,860.00 | SWU |
| M-D Public Works | Drainage Improvement Project for NW 97 Ave | \$327,813.97 | SWU |
| M-D Public Works | CRS# RL-1 Munne Subdivision | \$1,524,555.00 | SWU |

| Local Mitigation Strategy Project Status Reported 01/2016-12/31/2016 | | | |
|---|---|--------------------------|-----------------------|
| Completed Projects | | Cost | Funding Source |
| M-D Public Works | CRS# RL-1 Lormar Subdivision | \$736,570.64 | SWU |
| M-D Public Works | Country Walk Site 3 (SW 144 St - SW 148 Ter from SW 152 Ave - 153 Pl) | \$432,674.00 | SWU |
| M-D Public Works | Country Walk Basin 1 (SW 150 St-151 Ter from SW 144 Ct-151 Ave) | \$1,074,689.00 | SWU |
| M-D Public Works | Coral Way Homesites (SW 80 Avenue from SW 30 Street to SW 28 Street and SW 30 Street from SW 81 Avenue to SW 79 Court) | \$1,029,202.00 | SWU |
| M-D Public Works | Coral Way Drainage Retrofit - SW 26 Street Between SW 119 Avenue to Florida Turnpike | \$246,736.00 | SWU |
| M-D Public Works | Central Miami Drainage Improvement Project -(SW 38 ST FROM SW 75 AV TO S. LAKE DR. between SW 73 CT FROM SW 38 ST TO SW 39 ST) | \$203,520.00 | SWU |
| M-D Public Works | C802-204, C-8 Basin Project (NW 22 Ave from SR 9 to Biscayne Canal) | \$400,000.00 | QNIP/SWU |
| M-D Public Works | Brickell Area Drainage Improvement Project (South Miami Avenue b/t SE 14th to SE 10st St & SW 2nd Avenue b/t SW 11st to SW 9th St.) | \$542,894.92 | SWU |
| M-D Public Works | Belen Conveyance | \$3,070,344.00 | SWU |
| M-D Public Works | 12800 block of SW 87 Ave | \$10,446.00 | QNIP/SWU |
| M-D Public Works | SW 94 Terrace from SW 122 Avenue to End of cul-de-sac | \$60,800.00 | SWU |
| M-D Public Works | Dadeland Park Subdivision Drainage Improvement Project - SW 81 Street to SW 83 Street from SW 79 Avenue to SW 87 Avenue (Includes SW 89 Avenue from SW 85 Street to SW 88 Street (Snapper Creek Park) | \$600,000.00 | SWU |
| St. Thomas University | Replacement of wood electric power pole | \$5,000.00 | Self-funded |
| Sweetwater | South Florida Water Management District Flood Protection Berm | \$1,000,000.00 | SFWMD |
| Virginia Gardens | VG - 66 avenue storm drain, ADA, and road widening project | \$650,000.00 | State of FL |
| Vizcaya Museum and Gardens | Emergency Structural Repairs | \$4,500,000.00 | Capital Fund/Bond |
| Completed Total | # of Projects: 223 | \$ 117,848,514.33 | |

| Under Construction | | Cost | Funding Source |
|---------------------------|--|-----------------|--|
| Aventura | NE 191st ST Improvements | \$711,962.00 | City/grant |
| Aventura | NE 29 PL Phase II South | \$721,000.00 | City |
| Aventura | NE 213th ST Sea Wall Restoration | \$1,387,000.00 | City/Grant |
| Bal Harbour | IT Enhancements | \$170,800.00 | CIP |
| Bay Harbor | Rehabilitation of the Broad Causeway Bridges | \$13,000,000.00 | CIP, State funding |
| Coral Gables | Fire Station #3 Hurricane shutters | \$88,000.00 | CIP |
| Coral Gables | Basin Inflow and Infiltration Upgrade | \$1,179,793.00 | FDEP Grant Storm Sewer |
| Cutler Bay | Drainage Improvements - Manta Drive | \$488,600.00 | Stormwater Utility Funds |
| Cutler Bay | Reduction of Floating Debris | \$60,000.00 | City budget |
| Cutler Bay | Canal Cleaning and Shaping Town wide | \$750,000.00 | City Budget |
| Cutler Bay | Flood Zone Data GIS System | \$140,000.00 | Stormwater Utility |
| Cutler Bay | Town Hall/EOC HVAC System | \$610,000.00 | Unknown |
| Cutler Bay | Town Hall/EOC Hardening Project (Mechanical HVAC System) | \$228,000.00 | Unknown |
| Cutler Bay | Portable Traffic Control Signs | \$200,000.00 | Unknown |
| Cutler Bay | Emergency Portable Air Conditioner Units | \$120,000.00 | Unknown |
| Cutler Bay | Municipal AM Emergency Radio Broadcast Station | \$85,000.00 | Unknown |
| Cutler Bay | Removal of Australian Pines and other Exotics | \$100,000.00 | City Budget |
| Cutler Bay | Drainage Improvements - Manta Drive | \$488,600.00 | Stormwater Utility |
| Doral | Stormwater Improvements 5-Year CIP: Year 3 | \$1,265,749.00 | HMGP, PDM, Stormwater Fee – Secured |
| Doral | Stormwater Improvements 5-Year CIP: Year 2 | \$1,017,150.00 | FDOT Grant |
| Doral | Stormwater Improvements 5-Year CIP: Year 1 | \$1,800,000.00 | FDEP and CIP State Grant |
| Doral | Stormwater Improvements 5-Year CIP: Year 3 | \$1,265,749.00 | Stormwater Fee |
| El Portal | Village of El Portal Stormwater Improvements | \$10,000,000.00 | Emergency Operations Flood and Post Flood Response/F MA |
| Hialeah | Roadway/Stormwater Improvements (SE 4 ST to HIA DR from 6-8 AVE) | \$151,469.00 | City CIFs |
| Hialeah Gardens | Central District Drainage Improvements | \$2,500,000.00 | Flood Control Projects, RFC, HMGP |

| Under Construction | | Cost | Funding Source |
|---------------------------|---|-----------------|--|
| Homestead | Sewer lines in the Northwest Neighborhood and the West Industrial Area | \$3,300,000.00 | CIP |
| Homestead | Police Station Security/Hardening | \$50,000.00 | Bond Issue for New Police Station Building |
| Homestead | Upgrade OCB's (Oil Circuit Breakers) with VCB's (Vacuum Circuit Breakers) | \$150,000.00 | CIP |
| Homestead | Improvements to Existing Buildings | \$500,000.00 | CIP |
| Homestead | Sidewalks/ Roadway Improvements | \$200,000.00 | CIP |
| Homestead | Improve Transportation Infrastructure | \$2,000,000.00 | State/County Roads |
| Homestead | Wastewater Infiltration/Inflow | \$2,400,000.00 | CIP |
| Key Biscayne | Flap Gates at Outfalls (Backflow Prevention) | \$750,000.00 | Stormwater Utility/ Capital Expenditures |
| Medley | Flood Mitigation Area South | \$2,300,000.00 | State, County & Town |
| Medley | Medley Public Services Facilities Strengthening | \$800,000.00 | Town Budget |
| Medley | Drainage Improvements Phase III | \$270,000.00 | Town Budget |
| Medley | Drainage Improvements Phase I | \$150,000.00 | Town Budget |
| Medley | Drainage Improvements Phase II | \$450,000.00 | Town Budget |
| Medley | Tobie Wilson Park Flood Proofing & Strengthening | \$800,000.00 | Town Budget |
| Medley | Town Hall Building Strengthening | \$800,000.00 | Town Budget |
| Miami | Acquire Portable Pumps and Generators | \$70,000.00 | PDM |
| Miami Beach | Citywide Water Infrastructure Improvements | \$55,000,000.00 | HMGP |
| Miami Beach | Citywide Dune Restoration & Enhancement Project | \$400,000.00 | Beach Erosion/Flood Control Projects |
| Miami Beach | Citywide Wastewater Infrastructure Improvements | 42,250,000.00 | HMGP |
| Miami Beach | Drainage Hot Spots | Unknown | Unknown |
| Miami Beach | Flood Proofing Sewer and Pump Stations | \$2,340,000.00 | Flood Control Projects |
| Miami Beach | Central Bayshore – Neighborhood Improvements (34th Street South) | Unknown | Unknown |
| Miami Beach | Palm & Hibiscus Islands – Neighborhood Improvements | Unknown | Unknown |
| Miami Beach | Venetian Islands – Neighborhood Improvements (Phase 2) | Unknown | Unknown |
| Miami Beach | Sunset Islands 3 & 4 – Neighborhood Improvements | Unknown | Unknown |
| Miami Beach | West Avenue Neighborhood Drainage Improvements | \$15,900,000.00 | Flood Control Projects |

| Under Construction | | Cost | Funding Source |
|---------------------------|--|----------------|--------------------------------|
| Miami Beach | Sunset Harbor Pump Station Upgrades / Drainage Improvements | \$800,000.00 | Flood Control Projects |
| Miami Beach | Purchase of a Safeboat for Miami Beach Police Dept. Marine Patrol | Unknown | Unknown |
| Miami Beach | Storage Tank Refurbishment Project | Unknown | Unknown |
| Miami Gardens | Create GIS Layer for Storm Sewer Infrastructure | \$100,000.00 | Unsecured |
| Miami Springs | Engineering Study to determine sites of canal bank restoration | \$2,000,000.00 | DEP of Water Prot. Assis |
| Miami Springs | Removal of Australian Pines | \$14,000.00 | City Budget |
| Mount Sinai | Mitigate the Impact of Storm Surge | \$3,000,000.00 | DEP |
| Mount Sinai | Protect the Energy Center Facility Chillers | \$2,000,000.00 | Self-funded |
| Mount Sinai | Code Plus Construction Enhancements Surgical Tower | \$6,500,000.00 | FEMA |
| North Miami | Sanitary Sewer Backup | \$700,000.00 | Unknown |
| North Miami | Surge Resistance and Flood Mitigation at Keystone Point and Sans Souci | \$500,000.00 | Unknown |
| North Miami | Flood Prevention and Mitigation: Drainage Basin13 | \$500,000.00 | City Funds |
| North Miami Beach | Install Additional Storm Water Basins or Increase Existing Basins | \$60,000.00 | CIP |
| North Miami Beach | NE 172nd Street Drainage Improvement | \$1,791,692.00 | CIP |
| North Miami Beach | Clean and Improve Drainage Systems | \$428,400.00 | CIP |
| North Miami Beach | Eastern Shores Drainage Repair/Replacement | \$450,000.00 | CIP |
| North Miami Beach | Construct Storm Water System that may include Injection Wells in Areas Prone to Flooding | \$120,000.00 | CIP |
| North Miami Beach | Miami Industrial District Drainage and Roadway Improvement | \$800,000.00 | CIP |
| North Miami Beach | Renovation of Eastern Shores Outfall Pipes | \$550,000.00 | CIP |
| North Miami Beach | NE 172nd Drainage Improvement | \$17,916.92 | CIP |
| North Miami Beach | Clean and Improve the Drainage System | \$428,000.00 | CIP |
| Palmetto Bay | Drainage Improvements for Sub-Basin # 10 | \$1,000,000.00 | SFWMD Grant Stormwater Utility |
| Palmetto Bay | Flood Zone Data Maintenance: GIS System | \$100,000.00 | General Funds |
| Palmetto Bay | Drainage Improvements - SW 87 AVE (from SW 168 ST to SW 184 ST) | \$1,500,000.00 | MD County Stormwater Utility |

| Under Construction | | Cost | Funding Source |
|--|--|-----------------|---|
| Palmetto Bay | Downtown Redevelopment | \$12,440,000.00 | County GOB Street Sign Bond General Funds |
| Public Housing & Community Development | Ward Tower | \$1,920,400.00 | Mitigation Grant, Capital Fund |
| Public Housing & Community Development | Haley Sofge Towers | \$2,056,321.00 | Mitigation Grant, Capital Fund |
| Public Housing & Community Development | Haley Sofge Towers | \$1,000,000.00 | Mitigation Grant, Capital Fund |
| Public Schools | SW 82 ST from SW 73 Ave to SW 76 Ave | \$304,884.00 | SWU |
| Public Schools | SW 165 Ave and SW 88 St | \$66,000.00 | SWU |
| M-D Public Works | SW 220 St bet SW 103 CT & SW 102 Ave (10298 SW 229 ST | \$80,000.00 | SWU |
| M-D Public Works | SW 207 Terrace from SW 124 Court to SW 126 Avenue Drainage Improvement Project | \$275,000.00 | SWU |
| M-D Public Works | PWD Project No. 20130240 SW 2 Street to SW 4Street from SW 82 Avenue and SW 87 Avenue | \$295,825.00 | SWU |
| M-D Public Works | SW 2 Street to SW 4 Street from SW 82 Avenue to SW 87 Avenue Drainage Improvement Project PWD Project No.20130240 | \$144,000.00 | SWU |
| M-D Public Works | SW 176 Street from US-1 to SW 107 Avenue | \$4,434,642.00 | PTP |
| M-D Public Works | SW 157 Avenue from SW 88 Street to SW 91 Street | \$213,519.00 | SWU |
| M-D Public Works | SW 157 Avenue from SW 184 Street to SW 152 Street | \$7,128,130.00 | PTP |
| M-D Public Works | SW 152 Street and SW 82 Avenue Drainage Improvement Project | \$220,000.00 | SWU |
| M-D Public Works | SW 132 Avenue from SW 117 Terrace to SW 120 Street | \$392,645.00 | PTP |
| M-D Public Works | SW 104 Street from SW 157 Avenue to SW 142 Avenue | \$505,335.00 | SWU |
| M-D Public Works | Seaboard Acres Pump Station Retrofit | \$3,317,350.00 | SWU/GOB |
| M-D Public Works | PWD Project No. 20120157 WO#1) (GOB | \$295,279.00 | GOB |
| M-D Public Works | PWD Project No. 20040389 (PTP) (JPA with City of Miami) | \$5,663,390.00 | (PTP) (JPA with City of Miami) |
| M-D Public Works | PWD Project No. 20040386 (PTP) (JPA with City of Miami) | \$4,702,799.00 | PTP) (JPA with City of Miami) |
| M-D Public Works | Project No. 20120047 Town of Miami Lakes | \$93,321.00 | Unknown |

| M-D Public Works | | Cost | Funding Source |
|---------------------------------|---|-------------------------|--|
| | Old Cutler Road Bike Path (Phase II) | \$1,131,821.00 | PTP |
| M-D Public Works | NW 87 Avenue from NW 154 Street to NW 186 Street | \$490,256.00 | PTP |
| M-D Public Works | NW 74 Street from NW 87 Avenue to Palmetto Expressway | \$5,802,503.00 | PTP |
| M-D Public Works | NW 58 Street from NW 92 Avenue to NW 102 Avenue - Drainage Improvement Project | \$1,075,000.00 | GOB 77465 |
| M-D Public Works | NW 37 Avenue from North River Drive to NW 79 Street | \$14,855,900.00 | PTP |
| M-D Public Works | NW 178 Street from NW 89 Avenue to NW 90 Court | \$72,190.00 | SWU |
| M-D Public Works | NE 18 Avenue from NE 191 Street to NE 199 Street (NE 18 Avenue & NE 199 Street) | \$280,241.00 | SWU |
| M-D Public Works | NE 167 Street & NE 14 Avenue | \$50,000.00 | SWU |
| M-D Public Works | NE 12 Ave & NE 169 Terrace | \$128,302.00 | SWU |
| M-D Public Works | Miller Drive & SW 133 PL | \$223,000.00 | GOB |
| M-D Public Works | Midway Addition (Phases V, VI & VII) Drainage Improvement Project | \$867,050.00 | GOB |
| M-D Public Works | Miami River Greenways | \$510,359.00 | GOB |
| M-D Public Works | Miami River Greenways | \$1,193,721.00 | GOB |
| M-D Public Works | Larchmont Pump Station Retrofit | \$4,665,069.00 | SWU GOB |
| M-D Public Works | Larchmont Pump Retrofit Station Phases 1 & 2 | \$3,300,000.00 | SWU/GOB |
| M-D Public Works | Drainage Improvement PWD Project No. 20130156) | \$632,910.00 | GOB/SWU |
| M-D Public Works | Drainage Improvement PWD Project No. 20120161) | \$189,372.00 | QNIP |
| M-D Public Works | Arch Creek Phase IV- Pump Stations Improvements | \$120,000.00 | SWU |
| M-D Public Works | Drainage Improvement Project - SW 99 Ave & SW 101 St; SW 129 AVE & SW 116 ST | Unknown | SWU |
| South Miami | SW 64 Avenue Drainage Improvement Project | \$115,230.00 | Storm water People's Transportation Plan |
| South Miami | Citywide Drainage Improvements, Phase 6 | \$275,000.00 | CIP |
| Vizcaya Museum and Gardens | Vizcaya Village Roof Replacement & Roof Structure Reinforcement | \$2,500,000.00 | General Obligation Bond |
| West Miami | Impact Resistant Windows for City Hall | \$50,000.00 | CDBG General Fund |
| Under Construction Total | # of Projects: 122 | \$239,143,336.97 | |

| Funded Not Yet Started | | Cost | Funding Source |
|-------------------------------|---|----------------|--|
| Bal Harbour | Jetty Pedestrian walking surface repairs | \$332,000.00 | CIP |
| Bal Harbour | Sewall and Dock Repair BHV park | \$55,000.00 | CIP |
| Cutler Bay | Debris Removal | \$400,000.00 | Grants |
| Cutler Bay | Preventive Pruning of Existing Town Tree Inventory | \$285,000.00 | Town Budget F.Y. 2016-2017 |
| Cutler Bay | Storm Water Outfalls | \$500,000.00 | Stormwater Utility Fund |
| Doral | NW 41 St. from NW 79 Ave. to NW 87 Ave. Roadway Improvements | \$1,850,000.00 | HMGP, PDM, General Fund. Private Dev. /Impact Fee Credit |
| Doral | Stormwater Improvements 5-Year CIP: Year 4 | \$1,047,694.00 | City's Stormwater |
| Emergency Management | Barbara Goleman Senior Survey | Unknown | State Retrofit Funding |
| Florida City | Repair of Sewer Lines in Friedland Manor | \$475,000.00 | CDBG, Legislative Appropriation , City funds |
| Hialeah | Roadway Reconstruction (W 8-10 Ave from W 31-33 Street) | \$2,190,724.00 | CDBG |
| Homestead | New Sewer Mains: To upgrade sewer main/lines to eliminate raw sewage from leaking into the water table. | \$2,000,000.00 | CIP |
| Jackson | Volt Oil Switch Replacements | \$7,350,000.00 | Internal funding |
| Jackson | Emergency Switchgear Replacements at JNMC | \$6,950,000.00 | GOB 2005 & Jackson's Bond Referendum |
| Jackson | Utility/Energy Center at JMH | \$5,290,000.00 | GOB 2005 & Jackson's Bond Referendum |
| Key Biscayne | Reverse 911 Community Notification System | \$105,000.00 | CIF |
| Key Biscayne | Purchase of Emergency Vehicles | 460,000.00 | CIF |
| Key Biscayne | New Stormwater Outfall Construction | \$210,000.00 | Private funding. |
| Key Biscayne | Coastal Dune Vegetation | \$10,000.00 | CIF |
| Key Biscayne | Additional Training | \$2,500.00 | Fire Training Budget |

| Funded Not Yet Started | | Cost | Funding Source |
|-------------------------------|--|----------------|---|
| Miami | Station/Facility Apparatus Room Doors | \$252,000.00 | HMGP, PDM |
| Miami | Mitigation & Resiliency Initiative for Historic Neighborhoods in the City of Miami | \$139,500.00 | Grants |
| Miami | Watson Island Baywalk | \$300,000.00 | Emergency Streambank and Shoreline Protection PDM |
| Miami | Study to Reduce Erosion on Virginia Key Beach | \$75,000.00 | PDM, HMGP |
| Miami | Restoration of Native Species | \$75,000.00 | Public Assistance Program, PDM, HMGP |
| Miami | Property Maintenance Division Upgrades | \$160,000.00 | PDM |
| Miami | Hurricane Window Barriers for Park Recreation Buildings | \$250,000.00 | PDM |
| Miami | Fire Station Hardening | \$144,000.00 | PDM |
| Miami | Protect Vital City Records | \$60,000.00 | Public Assistance Program FMA |
| Miami | Communications Systems Generator | \$60,000.00 | PDM |
| Miami Beach | Indian Creek Drive 25th to 41st Street Drainage Improvements | \$2,700,000.00 | FDOT and Miami Beach |
| Miami Beach | Cultural and Historical Resources Hazard Mitigation Plan | Unknown | PDM/Interagency Flood Risk Management Project, FEMA and City of Miami Beach |
| Miami Gardens | Vista Verde Drainage and Roadway Improvement Project | \$3,800,000.00 | Stormwater, CDBG, CITT, FL Legislative Appropriations Grants |
| Miami Gardens | Culvert and Headwall Project | \$400,000.00 | Potential |
| Miami Gardens | NW 13 Avenue/Industrial Area Drainage Outfall Project | \$230,000.00 | Stormwater Funding |
| Miami Gardens | NW 11 Avenue Stormwater Drainage Project | \$100,000.00 | Stormwater Funds |
| Mount Sinai | Code Plus Construction Energy Center Facility Protect Redundant Power Supply | \$250,000.00 | Internal Funding |

| Funded Not Yet Started | | Cost | Funding Source |
|-------------------------------|--|----------------|---|
| North Miami Beach | Leak Detection Services | \$50,000.00 | CIP |
| North Miami Beach | Drainage in Alleyways | \$50,000.00 | CIP |
| North Miami Beach | Storm Water Pump Replacement Program | \$50,000.00 | CIP |
| North Miami Beach | Pump Replacements | \$165,000.00 | CIP |
| North Miami Beach | Force Main Installations and Lift Stations Rehabilitations | \$125,000.00 | CIP |
| North Miami Beach | Aerial Pipe Crossings | \$350,000.00 | CIP |
| North Miami Beach | Inflow and Infiltration Prevention | \$250,000.00 | CIP |
| North Miami Beach | Fire Flow Improvements | \$320,000.00 | CIP |
| North Miami Beach | Trenchless Pipe Replacements | \$325,000.00 | CIP |
| North Miami Beach | Roadway Improvements | \$327,000.00 | CIP |
| North Miami Beach | Storm Water Improvement City-Wide | \$336,885.00 | CIP |
| North Miami Beach | Dead End Eliminations | \$42,000.00 | CIP |
| Palmetto Bay | Localized Drainage Improvements Phase VI | \$403,733.00 | Stormwater Utility/Grants |
| Palmetto Bay | Sub-Basin 59/60 | \$1,100,000.00 | SFWMD and Stormwater Utility Revenue |
| Palmetto Bay | Public Information and Educational Campaign | \$16,500.00 | Stormwater Utility Funding |
| Palmetto Bay | Repetitive Loss Retrofit | \$313,570.00 | HMGP, Pre-Disaster Funding Programs, FMA, Severe Repetitive Loss Program, RFC, Stormwater Utility Revenue |
| M-D Public Works | SW 92 AVE FROM SW 8 TER TO SW 12 ST ROADWAY DRAINAGE | \$616,537.22 | SWU FUNDING CAPITAL PROJECT |
| M-D Public Works | NW 76 ST FROM NW 36 AVE TO NW 37 AVE | \$425,000.00 | SWU |
| M-D Public Works | Seaboard Acres Pump Station | \$1,500,000.00 | Unknown |

| Funded Not Yet Started | | Cost | Funding Source |
|---------------------------------|---|--------------------------|-----------------------|
| M-D Public Works | Larchmont Gardens Pump Station | \$1,671,841.00 | Unknown |
| M-D Public Works | NE 6 AVE& NE 185 Street; NE Miami CT, from NE 196-198 ST; NW 22 AVE & NW 175 ST; North DR & NE 14 AVE | \$835,000.00 | Unknown |
| M-D Public Works | Belen Phase III B | \$1,590,000.00 | SWU |
| M-D Public Works | SW 157 AVE Canal Interconnect | Unknown | Capital |
| Virginia Gardens | VG - NW 40 street Stormwater Improvement Project | \$697,000.00 | Grants/FDOT |
| Funded - Not Yet Started | # of Projects: 60 | \$ 49,683,484.22 | |
| Total Projects | 405 | \$ 406,675,335.50 | |

2017 Projects

| Miami-Dade Local Mitigation Strategy Projects Reported from 01/2017 to 12/2017 | | | |
|---|--|----------------|---|
| Completed Projects | | Costs | Funding |
| Coral Gables | Basin Inflow and Infiltration Upgrade | \$1,179,793.00 | FDEP Grant Storm Sewer |
| Cutler Bay | Purchase Communications Emergency Equipment | \$65,000.00 | budgeted |
| Cutler Bay | Development of Floodplain Management Plan | \$120,000.00 | Pre-Disaster Mitigation grant |
| Cutler Bay | Acquisition of Emergency Generators | \$394,000.00 | budgeted |
| Cutler Bay | Town Hall/EOC Installation of Transfer Switch for Emergency Power | \$394,000.00 | budgeted |
| Cutler Bay | Portable Traffic Light Signals | \$140,000.00 | budgeted |
| Cutler Bay | Purchase Computerized Equipment Storage for Vital Public Records | \$75,000.00 | budgeted |
| Cutler Bay | Satellite Phones | \$55,000.00 | Budgeted |
| Cutler Bay | SW 97th Ave Drainage Improvement | \$291,494.00 | Lennar Homes |
| Cutler Bay | Old Cutler Road JPA | \$7,524,319.00 | Miami Dade County, CITT, PTP |
| Cutler Bay | SW 216th Street and SW 97th Ave Traffic Circle | \$204,486.00 | budgeted |
| Doral | Stormwater Improvements 5-Year CIP: Year 3 | \$1,265,749.00 | HMGP, Pre-Disaster Funding Programs, Stormwater Fee - Secured |
| Florida City | Repair of Sewer Lines in Friedland Manor | \$475,000.00 | CDBG, Legislative Approp., City funds |
| Homestead | New Sewer Mains | \$2,000,000.00 | CIP |
| Key Biscayne | Purchase of Emergency Vehicles | \$60,000.00 | CIP |
| Miami | NW 2nd Avenue (11th to I-395) | \$2,000,000.00 | PDM |
| Miami | SW 3rd Avenue Road Improvement Project | \$1,450,000.00 | FMA |
| Miami | Miami River Greenway (NW 10th Ave to NW 12th Ave) | \$3,000,000.00 | PDM |
| Miami | Englewood Storm Sewers Project -Phase III | \$5,400,000.00 | PDM, Public Assistance Program, HMGP |
| Miami | Grove Park Storm Sewers Project | \$6,000,000.00 | PDM, HMGP, Public Assistance Program |
| Miami | NW 14th Street Streetscape Project | \$3,000,000.00 | PDM |
| Miami | NE/NW 14th Street from NE 2nd Avenue to FEC Track; North Miami Avenue from NE/NW 15th Street to I-395 Right-of-way Line. | \$4,000,000.00 | PDM |
| Miami | Miami River Greenway SE 5th Street Extension | \$2,200,000.00 | FMA |

| Miami-Dade Local Mitigation Strategy Projects Reported from 01/2017 to 12/2017 | | | |
|---|--|------------------------|---|
| Completed Projects | | Costs | Funding |
| North Miami | Flood Prevention and Mitigation: Drainage Basin13 | \$600,000.00 | City funds |
| North Miami | Security for City Hall | \$62,750.00 | Unknown |
| Palmetto Bay | Drainage Improvements for Sub-Basin # 10 | \$1,000,000.00 | SFWMD Grant VPB - Stormwater Utility |
| Public Housing and Community Development | Stirrup Plaza | \$450,000.00 | Federal Funds |
| Projects reported as completed | | \$51,259,591.00 | 27 |

| Miami-Dade Local Mitigation Strategy Projects Reported from 01/2017 to 12/2017 | | | |
|---|---|-----------------|---|
| Projects Under Construction | | Cost | Funding |
| Aventura | NE 29 PL Phase II South | \$721,000.00 | City funded project. |
| Coral Gables | Pump Station Cocoplum 1 Emergency Generator | \$100,000.00 | Sanitary Sewer Fund |
| Cutler Bay | Town Hall/EOC HVAC System | \$610,000.00 | Unknown |
| Cutler Bay | Town Hall/EOC Hardening Project (Mechanical HVAC System) | \$228,000.00 | Unknown |
| Cutler Bay | Reduction of Floating Debris | \$60,000.00 | budgeted, ongoing |
| Cutler Bay | Portable Traffic Control Signs | \$200,000.00 | Unknown |
| Cutler Bay | Flood Zone Data GIS System | \$140,000.00 | Stormwater Utility fund |
| Cutler Bay | Drainage Improvements - Manta Drive | \$488,600.00 | Stormwater Utility Funds; applied for FDOT Tap Grant. |
| Cutler Bay | Removal of Australian Pines and other Exotics | \$100,000.00 | Included in F.Y. 2019-2020 Budget |
| Cutler Bay | Municipal AM Emergency Radio Broadcast Station | \$85,000.00 | Unknown |
| Cutler Bay | Emergency Portable Air Conditioner Units | \$120,000.00 | Unknown |
| Cutler Bay | Canal Cleaning and Shaping Town wide | \$750,000.00 | budgeted annually, ongoing |
| Doral | Stormwater Improvements 5-Year CIP: Year 4 | \$1,047,694.00 | HMGP, Pre-Disaster Funding Program, PDM Funded by City's Stormwater Fee |
| Florida City | Sealing the Palm Drive Canal between US 1 and SW 172 Ave | \$7,100,000.00 | City Funds, County Funds |
| Homestead | Wastewater Infiltration/Inflow | \$2,400,000.00 | CIF |
| Homestead | Improve Transportation Infrastructure | \$2,000,000.00 | Miami-Dade and State of Florida Roads |
| Homestead | Upgrade OCB's (Oil Circuit Breakers) with VCB's (Vacuum Circuit Breakers) | \$150,000.00 | CIP Plan |
| Homestead | Sidewalks/ Roadway Improvements | \$200,000.00 | CIP Plan |
| Homestead | Improvements to Existing Buildings | \$500,000.00 | CIP Plan |
| Homestead | Police Station Security/Hardening | \$50,000.00 | Bond Issue |
| Homestead | Sewer lines in the Northwest Neighborhood and the West Industrial Area | \$3,300,000.00 | CIFs |
| Homestead | Interchange Modification | \$15,000,000.00 | Funded by Toll and Concessions Revenue |
| Homestead | Improve Transportation Infrastructure | \$2,000,000.00 | Miami-Dade and State of Florida Roads |

| Miami-Dade Local Mitigation Strategy Projects Reported from 01/2017 to 12/2017 | | | |
|---|---|-----------------|---|
| Projects Under Construction | | Cost | Funding |
| Homestead | Upgrade OCB's (Oil Circuit Breakers) with VCB's (Vacuum Circuit Breakers) | \$150,000.00 | CIP Plan |
| Homestead | Sidewalks/ Roadway Improvements | \$200,000.00 | CIP Plan |
| Key Biscayne | Phase II Village K-8 Center Stormwater Pump Station | \$350,000.00 | HMGP, Stormwater Utility Fund |
| Key Biscayne | Comprehensive Review of Local Laws and Regulations | \$5,000.00 | Stormwater Utility Fund |
| Key Biscayne | Flap Gates at Outfalls (Backflow Prevention) | \$750,000.00 | Stormwater Utility Capital Expen. |
| Miami | Acquire Portable Pumps and Generators | \$70,000.00 | HMGP, PDM |
| Miami | Bird Avenue Road Improvement | \$1,728,000.00 | PDM |
| Miami Beach | Venetian Islands – Neighborhood Improvements (Phase 2) | | Unknown |
| Miami Beach | Extensive Repairs to Seawalls & Creation of Living Shoreline | \$3,787,000.00 | City funds/Grant |
| Miami Beach | Citywide Water Infrastructure Improvements | \$55,000,000.00 | HMGP |
| Miami Dade College | Entrepreneurial Educational Center, Bldg. 1000 | \$148,720.00 | HMGP Grant |
| Miami Gardens | Create GIS Layer for Storm Sewer Infrastructure | \$100,000.00 | Unknown |
| Mount Sinai | Protect the Energy Center Facility Chillers | \$2,000,000.00 | Self-funded |
| North Bay Village | GIS Conversion of Sanitary Sewer System | \$28,200.00 | Utility Fund |
| North Bay Village | Sanitary Sewer Rehabilitation | \$3,900,000.00 | State Revolving Loan Fund |
| North Bay Village | Water Main Rehabilitation | \$4,400,000.00 | State Revolving Loan Fund |
| North Bay Village | Water Meter and Service Line Replacement | \$4,700,000.00 | State Revolving Loan Fund |
| North Miami | Gravity Sewer Systems Improvements for Groundwater Infiltration Reduction | \$6,000,000.00 | Unknown |
| North Miami | Surge Resistance and Flood Mitigation at Keystone Point and Sans Souci | \$500,000.00 | Unknown |
| North Miami Beach | Clean and Improve Drainage Systems | \$428,400.00 | CIP |
| North Miami Beach | Eastern Shores Drainage Repair/Replacement | \$450,000.00 | CIP |
| North Miami Beach | NE 172nd Street Drainage Improvement | \$1,791,692.00 | CIP |
| Palmetto Bay | Downtown Redevelopment | \$12,440,000.00 | County GOB Street Sign Bond General Funds |

| Miami-Dade Local Mitigation Strategy Projects Reported from 01/2017 to 12/2017 | | | |
|---|--|--------------------------|---|
| Projects Under Construction | | Cost | Funding |
| Palmetto Bay | Drainage Improvements - SW 87 AVE (from SW 168 ST to SW 184 ST) | \$1,500,000.00 | PWIP, Grants & Loans for Public Works & Development Facilities, Flood Control Projects, FMA, Stormwater Utility Revenue |
| Palmetto Bay | Flood Zone Data Maintenance: GIS System | \$100,000.00 | General Funds |
| Public Works and Waste Management | Midway Addition (Phases V, VI & VII) Drainage Improvement Project - Flagler Street to NW 7 Street from NW 87 Avenue to NW 79 Avenue PWD Project No. 20130249) (GOB 77452 Midway Addition Phases V VI VII | \$867,050.00 | GOB |
| Seaport | Cruise Berth 6 Stormwater Improv | \$750,000.00 | Unknown |
| South Miami | SW 64 Avenue Drainage Improvement Project | \$115,230.00 | Storm water Drain Trust Fund, People's Transportation Plan |
| Projects reported as Under Construction | | \$ 138,260,470.00 | 48 |

| Miami-Dade Local Mitigation Strategy Projects Reported from 01/2017 to 11/30/2017 | | | |
|--|---|----------------|---|
| Projects Funded Not Yet Started | | Cost | Funding |
| Coral Gables | Install Solar Panels at Youth Center | \$472,000.00 | Unknown |
| Cutler Bay | Preventive Pruning of Existing Town Tree Inventory | \$285,000.00 | Budgeted on F.Y. 2016 - 2017 |
| Cutler Bay | Debris Removal | \$400,000.00 | Will apply for Grants as necessary |
| Cutler Bay | Storm Water Outfalls | \$500,000.00 | Stormwater Utility Fund |
| Doral | NW 41 St. from NW 79 Ave. to NW 87 Ave. Roadway Improvements | \$1,850,000.00 | HMGP, Pre-Disaster Funding Programs, General Fund. Private Developer/ Impact Fee Credit |
| Doral | Stormwater Improvements 5-Year CIP: Year 5 | \$1,435,908.00 | HMGP, Stormwater fees. |
| Homestead | New Sewer Mains: To upgrade sewer main/lines to eliminate raw sewage from leaking into the water table. | \$2,000,000.00 | CIF |
| Key Biscayne | New Stormwater Outfall Construction | \$210,000.00 | Private funding. |
| Key Biscayne | Reverse 911 Community Notification System | \$105,000.00 | CIF |
| Key Biscayne | Community Center Generator | \$75,000.00 | CIF |
| Key Biscayne | Additional Training | \$2,500.00 | Fire Department Training Budget |
| Miami | Hurricane Window Barriers for Park Recreation Buildings | \$250,000.00 | PDM |
| Miami | Protect Vital City Records | \$60,000.00 | Public Assistance Program FMA |
| Miami | Study to Reduce Erosion on Virginia Key Beach | \$75,000.00 | PDM, HMGP |
| Miami | Property Maintenance Division Upgrades | \$160,000.00 | PDM |
| Miami | Fire Station Hardening | \$144,000.00 | PDM |
| Miami | Station/Facility Apparatus Room Doors | \$252,000.00 | HMGP, PDM |
| Miami | Watson Island Baywalk | \$300,000.00 | Emergency Streambank and Shoreline Protection PDM |
| Miami | Restoration of Native Species | \$75,000.00 | Public Assistance Program, PDM, HMGP |

| Miami-Dade Local Mitigation Strategy Projects Reported from 01/2017 to 11/30/2017 | | | |
|--|--|----------------|--|
| Projects Funded Not Yet Started | | Cost | Funding |
| Miami | Communications Systems Generator | \$60,000.00 | PDM |
| Miami | Mitigation & Resiliency Initiative for Historic Neighborhoods in the City of Miami | \$139,500.00 | City of Miami LMS budget |
| Miami Beach | Cultural and Historical Resources Hazard Mitigation Plan | Unknown | FEMA and City |
| Miami Gardens | Vista Verde Drainage and Roadway Improvement Project | \$3,800,000.00 | Stormwater, CDBG, CITT/ State Legislative Appropriations Grants |
| Miami Lakes | Lake Sarah Drainage Improvements | \$2,200,000.00 | DEP and SFWMD |
| North Bay Village | Baywalk Plaza - Drainage Well | \$200,000.00 | Park Improvement Fund (Secured) FIND Grant (Secured) |
| North Bay Village | Stormwater Outfall Rehabilitation | \$1,200,000.00 | Stormwater Fund, State Revolving Fund Loan Program |
| North Bay Village | Deep Well Injection System Rehabilitation | \$633,737.00 | Stormwater Fund, Department of Envir Protection Grant |
| North Bay Village | Roadway Resurfacing | \$1,500,000.00 | Citizen Independent Transportation Trust, Local Capital Improve Gas Tax |
| North Miami Beach | Leak Detection Services | \$50,000.00 | CIP |
| North Miami Beach | Transmission Main Pipe Evaluation and Testing | \$25,000.00 | CIP |
| Palmetto Bay | Repetitive Loss Retrofit | \$313,570.00 | HMGP, Pre-Disaster Funding Programs, FMA, Severe Repetitive Loss Program, Stormwater Utility Revenue |
| Palmetto Bay | Localized Drainage Improvements Phase VI | \$403,733.00 | Stormwater Utility Revenue |
| Palmetto Bay | Public Information and Educational Campaign | \$16,500.00 | Stormwater Utility Funding |
| Palmetto Bay | Sub-Basin 59/60 | \$1,100,000.00 | SFWMD/Stormwater Utility Revenue |

| Miami-Dade Local Mitigation Strategy Projects Reported from 01/2017 to 11/30/2017 | | | |
|--|--|------------------------|----------------|
| Projects Funded Not Yet Started | | Cost | Funding |
| Public Housing and Community Development | Liberty Square | \$2,916,000.00 | CAPITAL FUND |
| Public Housing and Comm. Dev. | Liberty Square | \$3,240,000.00 | CAPITAL FUND |
| Public Housing and Comm. Dev. | Liberty Square | \$3,000,000.00 | CAPITAL FUND |
| Virginia Gardens | VG - NW 40 street Stormwater Improvement Project | \$697,000.00 | FDOT |
| Projects reported as Funded but not yet started | | \$30,109,076.00 | 38 |

2018 Projects

| Miami-Dade Local Mitigation Strategy Projects Reported from 01/2018 to 12/20/2018 | | | |
|--|---|-----------------|---|
| Completed Projects | | Cost | Funding Source |
| Miami Dade College | Medical Center, bldg. 1000 | \$1,541,208.00 | HMGP |
| Miami Dade College | Medical Center, bldg. 2000 | \$898,272.00 | HMGP |
| Miami Dade College | Hialeah Campus, bldg. 2000 | \$41,000.00 | HMGP |
| Miami Dade College | Wolfson Campus, bldg. 2000 | \$200,574.00 | HMGP |
| Miami Dade College | North Campus, Bldg. 1000 | \$374,200.00 | HMGP |
| Miami Dade College | Hialeah Campus, bldg. 1000 | \$451,730.00 | HMGP |
| Jackson | Volt Oil Switch Replacements | \$7,350,000.00 | Internal funding |
| Jackson | Generator - Jackson Multispecialty Center at Jackson North | \$250,000.00 | Internal funding |
| Miami | SW 3rd Avenue Road Improvement Project | \$1,450,000.00 | FMA |
| Miami | Replacement of Channel Markers | \$65,000.00 | HMGP, PDM |
| Jackson | Emergency Switchgear Replacements at JNMC | \$6,950,000.00 | GOB 2005 & Jackson's Referendum |
| Miami | Training Center Elevator Refurbishment | \$150,000.00 | PDM, Public Assistance Program |
| Miami | Station/Facility Apparatus Room Doors | \$252,000.00 | HMGP, Public Assistance Program |
| Miami | 77: S. Miami Ave and Side Street Drainage Improvements | \$3,500,000.00 | Public Assistance Program, HMGP, PDM |
| Miami Beach | Upgrading of Miami Beach Police Dept. Marine Patrol's two (2) 32' Contender boats | Unknown | Unknown |
| Cutler Bay | SW 216th Street and SW 97th Ave Traffic Circle | \$204,486.00 | Budgeted |
| Cutler Bay | SW 212th Street | \$850,000.00 | TAP, State of Florida Legislative Appropriations Grant |
| Cutler Bay | Caribbean Boulevard JPA Project | \$11,173,054.00 | CITT Funds |
| Cutler Bay | Old Cutler Road JPA | \$7,524,319.00 | Joint Participation agreement with Miami Dade County, CITT, PTP |
| Cutler Bay | SW 97th Ave Drainage Improvement | \$291,494.00 | Budgeted through Lennar Homes |
| Cutler Bay | Satellite Phones | \$55,000.00 | Budgeted |
| Cutler Bay | Purchase Computerized Equipment Storage for Vital Public Records | \$75,000.00 | Budgeted |
| Cutler Bay | Portable Traffic Light Signals | \$140,000.00 | Budgeted |
| Cutler Bay | Town Hall/EOC Installation of Transfer Switch for Emergency Power | \$394,000.00 | Budgeted |
| Cutler Bay | Acquisition of Emergency Generators | \$394,000.00 | Budgeted |
| Cutler Bay | Development of Floodplain Management Plan | \$120,000.00 | Pre-Disaster Mitigation Grant |

| Miami-Dade Local Mitigation Strategy Projects Reported from 01/2018 to 12/20/2018 | | | |
|--|--|----------------|---|
| Completed Projects | | Cost | Funding Source |
| Cutler Bay | Purchase Communications Emergency Equipment | \$65,000.00 | Budgeted |
| Miami Lakes | EOC Generator | \$279,229.00 | Potential mitigation grant |
| Mount Sinai | Medical Gas Tank Farm | \$1,300,000.00 | CDBG, Disaster Recovery Initiative, HMGP |
| Mount Sinai | Energy Center 2 | \$3,964,239.00 | FEMA |
| Mount Sinai | Energy Center Facility | \$250,000.00 | Internal Funding |
| Mount Sinai | Greenspan Roof and Enclosures | \$300,000.00 | HMGP |
| Mount Sinai | Utility Bridge and Power Distribution | \$7,351,169.00 | HMGP |
| Mount Sinai | Energy Center 1 | \$8,994,838.00 | State DEM |
| Mount Sinai | Protect the Power Supply | \$5,000,000.00 | Grant and Loans for Public Works & Development Facilities, Federal match to state funding |
| Key Biscayne | Flap Gates at Outfalls (Backflow Prevention) | \$750,000.00 | Stormwater Utility Capital Expenditures |
| Key Biscayne | Purchase of Emergency Vehicles | \$60,000.00 | CIFing |
| Golden Beach | Underground Placement of Utilities | \$6,900,000.00 | Secured |
| Golden Beach | Roadway/Streetscape Improvement | \$2,987,310.00 | Secured |
| Golden Beach | Emergency Generators | \$50,000.00 | Secured |
| Pinecrest | Hardening of Coral Pine Park Building | \$50,000.00 | Internal |
| Regulatory and Economic Resources | Lindgren Phase I and II PWD Project No. 20140198 | \$1,000,000.00 | GOB |
| Regulatory and Economic Resources | Drainage Improvement Project (PWD Project No. 20130243) (GOB 77451) | \$565,582 | GOB 77451 |
| Pinecrest | Purchase of Portable Two-Way Radios | \$110,000.00 | Internal |
| Regulatory and Economic Resources | SW 157 Avenue from SW 304 Street to SW 308 Street | \$386,754.19 | GOB |
| Regulatory and Economic Resources | SW 157 Avenue and SW 256 Street Drainage Improvement Project | \$36,300.00 | GOB |
| Regulatory and Economic Resources | SW 114 Street and SW 107 Avenue | \$139,142.00 | GOB |
| Regulatory and Economic Resources | SW 256 St to SW 264 St from SW 122 Ave to SW 127 Ave (Meadow Wood Area Phase 4B) | \$660,000.00 | QNIP/SWU |
| Regulatory and Economic Resources | Project (PWD Project No. 20130255) (GOB 77447) | \$835,000.00 | GOB |
| Regulatory and Economic Resources | NW 46 Street from NW 74 Avenue to NW 73 Avenue | \$321,449.00 | SWU |
| Regulatory and Economic Resources | SW 124 Ave and SW 218 St | \$56,500.00 | GOB |
| Regulatory and Economic Resources | PWD Project No. 20140199 | \$96,014.36 | GOB |

| Miami-Dade Local Mitigation Strategy Projects Reported from 01/2018 to 12/20/2018 | | | |
|--|--|----------------|---|
| Completed Projects | | Cost | Funding Source |
| Regulatory and Economic Resources | SW 272 St and SW 128 Ave (Airbase Elementary) | \$139,322.00 | GOB |
| Regulatory and Economic Resources | SW 296 St and SW 162 Ave | \$142,450.00 | GOB |
| Regulatory and Economic Resources | SW 39 St from SW 75 Ave to SW 73 Ct | \$155,687.41 | GOB |
| Regulatory and Economic Resources | SW 5 St from SW 78 Ct to SW 78 Pl | \$148,440.43 | GOB |
| Regulatory and Economic Resources | SW 68 Ave and SW 13 Ter | \$134,983.14 | GOB |
| Regulatory and Economic Resources | SW 28 St to SW 28 St Rd and SW 76 Ave | \$105,825.6 | GOB |
| Regulatory and Economic Resources | NE 197 Street and NE 24 Court Drainage Improvement Project | \$145,463.00 | GOB |
| Regulatory and Economic Resources | ALLEY NE 167 St and NE 7 Ave | \$83,832.00 | GOB |
| Regulatory and Economic Resources | SW 24 ST to SW 12 ST from SW 82 AVE to Palmetto Expressway | \$1,089,000.00 | GOB |
| Regulatory and Economic Resources | "NW 72 Street from NW 8 Avenue to NW 10 Avenue Drainage Improvement Project" | \$300,000.00 | SWU |
| Regulatory and Economic Resources | NW 70 Avenue and NW 22 Street Drainage Improvement Project | \$246,000.00 | SWU |
| Regulatory and Economic Resources | Miller Drive & SW 133 PL | \$223,000.00 | GOB |
| Regulatory and Economic Resources | NW 32 Street & NW North River Drive | \$150,000.00 | SWU |
| Jackson | Wind Retrofit Project at JRSC | \$601,281.00 | HMGP |
| Jackson | JMH Campus Wide Roof Replacement | \$2,500,000.00 | Jackson's Bond Referendum |
| Jackson | Wind Retrofit Project at RTC | \$8,589,588.00 | HMGP |
| Libraries | South Miami repair roofing system | \$250,000.00 | G.O.B |
| (Select) | Jack Orr Plaza | \$900,000.00 | Mitigation Grant Capital Fund |
| (Select) | Stirrup Plaza | \$450,000.00 | Mitigation Grant Federal Funds |
| Public Housing and Community Development | Claude Pepper | \$862,095.00 | Mitigation Grant, Capital Fund |
| Public Housing and Community Development | Peters Plaza | \$401,750.00 | Mitigation Grant, Capital Fund |
| Public Housing and Community Development | Newberg | \$1,923,900.00 | Mitigation Grant, CDBG Community Development Block Grants/ Entitlement Grants |
| Public Housing and Community Development | Ward Tower | \$1,920,400.00 | Mitigation Grant, Capital Fund |

| Miami-Dade Local Mitigation Strategy Projects Reported from 01/2018 to 12/20/2018 | | | |
|--|--|----------------|--|
| Completed Projects | | Cost | Funding Source |
| Public Housing and Community Development | Haley Sofge Towers | \$2,056,321.00 | Mitigation Grant, Capital Fund |
| Public Housing and Community Development | Haley Sofge Towers | \$1,000,000.00 | Mitigation Grant, Capital Fund |
| Regulatory and Economic Resources | Repetitive Loss Area Study- Arch Creek | \$4,528,519.02 | HMGP/QNIP |
| Seaport | Concrete Panels | \$619,858.00 | Local seaport funds |
| Seaport | Construction of New Seawall - Area 2 | \$9,600,000.00 | FDOT |
| Bal Harbour | City Hall Hurricane Update | \$563,000.00 | Miami-Dade County GOB |
| Bal Harbour | IT Enhancements | \$170,800.00 | CIPs General Fund |
| West Miami | Reconstruction /Raising of Public Works Motor Pool Building | \$1,300,000.00 | General Fund |
| Libraries | Edison Center install impact resistant windows | \$175,000.00 | GOB |
| Police | Miami-Dade Public Safety Institute - Replacement of existing office, classroom, and restroom trailers | \$1,000,000.00 | Unknown |
| Police | MDPD Headquarters Complex Security Hardening | \$650,000.00 | Unknown |
| Police | Police District Mitigation Project Kendall and Intracoastal District Stations | \$600,000.00 | Unknown |
| Regulatory and Economic Resources | Alley North of SW 81 Street from SW 67 Avenue to SW 69 Avenue Construction Project | \$339,185.00 | GOB |
| Regulatory and Economic Resources | Belen Phase III B | \$1,590,000.00 | SWU |
| Regulatory and Economic Resources | Drainage Improvement Project (PWD Project No. 20130258) | \$340,000.00 | HMGP |
| Regulatory and Economic Resources | C111 Extension North , from SW 387 ST to SW 388 ST, following slough path | \$7,971,720.00 | Grants |
| Regulatory and Economic Resources | SW 122nd Ave Secondary Canal Enhancement Project SOW - Guaval Canal | \$4,500,000.00 | Private Funds |
| Vizcaya Museum and Gardens | Emergency Structural Repairs | \$4,500,000.00 | Capital Fund Emergency/ Natural Disaster Funding Bond |
| Regulatory and Economic Resources | Wynona Park Drainage Improvement (NW 7 - 8 St from NW 72 - 76 Ave) [602] | \$327,683.00 | QNIP/SWU |
| Regulatory and Economic Resources | West Miami Lakes, Phase II [3065B] | \$306,158.00 | QNIP/SWU |
| Regulatory and Economic Resources | Twin Lakes (CC7-N-10, Project 9), Phase I / Twin Lakes, Phase 2 (NW 99 St - NW 102 St from NW 12 Ave - | \$460,857.00 | QNIP/SWU |

| Miami-Dade Local Mitigation Strategy Projects Reported from 01/2018 to 12/20/2018 | | | |
|--|---|-------------------------|--|
| Completed Projects | | Cost | Funding Source |
| | NW 14 Ave) [4015R, 630, 4009, 4008, 4010] | | |
| Regulatory and Economic Resources | Tropical Estates Sub. Phase 1 & 2 - SW 56 Street to SW 49 Street from SW 97 Avenue to SW 98 Court | \$438,927.00 | SWU |
| Regulatory and Economic Resources | Tropical Estates Phase 4 SW 98 Avenue to SW 102 Avenue from SW 48 Street to SW 51 Terrace | \$229,120.00 | SWU |
| Regulatory and Economic Resources | Tropical Estates Phase 3- SW 99 Ct to SW 102 Ave from SW 52 Terr to SW 55 St | \$330,000.00 | SWU |
| Regulatory and Economic Resources | The Tropics Drainage Improvements (NW 35 Ave - NW 36 Ave from NW 97 St - NW 101 St) [5020A, 5020] | \$98,382.00 | QNIP/SWU |
| Regulatory and Economic Resources | Telemetry Network Installation including 28 Satellite Canal Level Recorders and Rain Gauges | \$1,100,000.00 | GOB/SWU |
| Regulatory and Economic Resources | SW 54 Ct from SW 74 St to SW 76 St | \$87,700.00 | Unk |
| Regulatory and Economic Resources | NW 22 Ave between NW 135 St and NW 151 St | \$288,000.00 | SWU |
| Regulatory and Economic Resources | 55th Street Erosion Control Breakwater | \$1,700,000.00 | Unknown |
| Homestead | Drop-Off Site | \$900,000.00 | CIP Plan |
| Homestead | Motorsports Water Storage Tank Equipment | \$500,000.00 | CIP Plan |
| Homestead | Risk Management Plan | \$60,000.00 | HMGP |
| Homestead | Police Station Security/Hardening | \$50,000.00 | Bond Issue for New Police Station Building |
| Completed Total | # of projects: 108 | \$157,048,111.20 | |

| Miami-Dade Local Mitigation Strategy Projects Reported from 01/2018 to 12/20/2018 | | | |
|--|---|-----------------|--|
| Projects Under Construction | | Cost | Funding Source |
| Miami | Update Stormwater Master Plan | \$2,000,000.00 | HMGP/Other |
| THER | Reduction of Floating Debris | \$60,000.00 | Budgeted |
| Cutler Bay | Town Hall/EOC Hardening Project (Mechanical HVAC System) | \$228,000.00 | Unknown Unknown |
| Cutler Bay | Town Hall/EOC HVAC System | \$610,000.00 | Unknown |
| Regulatory and Economic Resources | SW 82 Avenue from SW 8 Street to SW 9 Terrace Swale Blocks | \$77,050.00 | SWU |
| El Portal | Village of El Portal Stormwater Improvements | \$10,000,000.00 | Emergency Operations Flood Response and Post Flood Response, FMA |
| Regulatory and Economic Resources | PWD Project No. 20040386 (PTP) (JPA with City of Miami) | \$4,702,799.00 | PTP (JPA with City of Miami) |
| Regulatory and Economic Resources | PWD Project No. 20040389 (PTP) (JPA with City of Miami) | \$5,663,390.00 | PTP (JPA with City of Miami) |
| Regulatory and Economic Resources | Old Cutler Road Bike Path (Phase II) – Intersection of SW 136 Street and SW 63 Avenue to Cocoplum Circle/Cartagena Plaza PWD Project No. 20080191 (PTP) | \$1,131,821.00 | PTP |
| Regulatory and Economic Resources | Town Park Heights Drainage Improvement Project - SW 97 AVE TO SW 95 AVE FROM SW 9 TER TO SW 12 ST | \$153,720.05 | SWU |
| Homestead | Upgrade Substation Feeder Protection | \$200,000.00 | CIF |
| Homestead | Water Main Improvements | \$2,000,000.00 | CIF |
| Homestead | Sewer Pump Stations Upgrades | \$1,500,000.00 | CIP Plan |
| Homestead | Improve Transportation Infrastructure | \$2,000,000.00 | Miami-Dade County and State of Florida Roads |
| Miami | Bird Avenue Road Improvement | \$1,728,000.00 | PDM |
| North Bay Village | GIS Conversion of Sanitary Sewer System | \$28,200.00 | Utility Fund |
| Palmetto Bay | Downtown Redevelopment | \$12,440,000.00 | County GOB Street Sign Bond General Funds |
| Miami Beach | Sunset Islands 3 & 4 – Neighborhood Improvements | Unknown | Unknown |
| Medley | Drainage Improvements Phase III | \$270,000.00 | Town Budget |
| Hialeah Gardens | Central District Drainage Improvements | \$2,500,000.00 | Flood Control Projects, RFC, HMGP |
| Cutler Bay | Portable Traffic Control Signs | \$200,000.00 | Unknown |
| Mount Sinai | Protect the Energy Center Facility Chillers | \$2,000,000.00 | Self-Funded |

| Miami-Dade Local Mitigation Strategy Projects Reported from 01/2018 to 12/20/2018 | | | |
|--|--|-----------------|--|
| Projects Under Construction | | Cost | Funding Source |
| Regulatory and Economic Resources | NE 14 Avenue and NE 191 Street Drainage Improvement Project | \$453,200.00 | GOB |
| Miami Springs | Engineering Study to determine sites of canal bank restoration | \$2,000,000.00 | Department of Environmental Protection Division of Water Protection Assistance |
| Miami Gardens | Vista Verde Drainage and Roadway Improvement Project | \$3,800,000.00 | Stormwater, CDBG, CITT, and State Legislative Appropriations Grants |
| Miami Gardens | GIS Layer for Storm Sewer Infrastructure | \$100,000.00 | Unknown |
| Corrections and Rehabilitation | MWDC Window Replacement | \$1,351,000.00 | Project #2000000556 |
| Regulatory and Economic Resources | SW 38 Street from SW 62 CT to SW 63 Ave | \$57,268.00 | SWU/GOB |
| Homestead | GIS that locates all city utilities | \$5,000,000.00 | CIP Plan |
| Homestead | Water and Wastewater Telemetry/RTUs | \$1,000,000.00 | CIF |
| Homestead | Wastewater Infiltration/Inflow | \$2,400,000.00 | CIF |
| Miami | Debris Management Plan | \$6,825.00 | Public Assistance Program, PDM, FEMA Hurricane Irma Funding |
| Cutler Bay | Drainage Improvements - Manta Drive | \$488,600.00 | Stormwater Utility Funds |
| Cutler Bay | Flood Zone Data GIS System | \$140,000.00 | Budget through Stormwater Utility fund |
| Mount Sinai | Relocate Operating Rooms | \$16,500,000.00 | Unknown |
| Mount Sinai | Surgical Tower | \$6,500,000.00 | FEMA |
| Mount Sinai | New Tower Storm Drainage Improvements | \$3,000,000.00 | Department of Environmental Protection |
| Golden Beach | Storm Water Drainage System Improvements | \$4,635,000.00 | Unknown |
| Libraries | North Central repair roofing system | \$135,000.00 | G.O.B. Secured |
| Regulatory and Economic Resources | SW 104 Street from SW 137 Avenue to SW Hammocks Boulevard | \$313,827.00 | OTHERS |
| Regulatory and Economic Resources | SW 176 Street from US-1 to SW 107 Avenue | \$4,434,642.00 | PTP |
| Regulatory and Economic Resources | SW 157 Avenue from SW 184 Street to SW 152 Street | \$7,128,130.00 | PTP |
| Regulatory and Economic Resources | SW 104 Street from SW 157 Avenue to SW 142 Avenue | \$505,335.00 | SWU |
| Regulatory and Economic Resources | PWD Project No. 20120157 WO#1) (GOB | \$295,279.00 | GOB |

| Miami-Dade Local Mitigation Strategy Projects Reported from 01/2018 to 12/20/2018 | | | |
|--|--|----------------|---|
| Projects Under Construction | | Cost | Funding Source |
| Regulatory and Economic Resources | NW 87 Avenue from NW 154 Street to NW 186 Street Project No. 20110194 (PTP) | \$490,256.00 | PTP |
| Regulatory and Economic Resources | NW 58 Street from NW 92 Avenue to NW 102 Avenue - Drainage Improvement Project | \$1,075,000.00 | GOB 77465 |
| Regulatory and Economic Resources | Miami River Greenways | \$1,193,721.00 | GOB |
| Regulatory and Economic Resources | SW 157 Avenue from SW 88 Street to SW 91 Street | \$213,519.00 | SWU |
| Regulatory and Economic Resources | NW 178 Street from NW 89 Avenue to NW 90 Court | \$72,190.00 | SWU |
| Regulatory and Economic Resources | Drainage Improvement PWD Project No. 20120161) (QNIP) | \$189,372.00 | QNIP |
| Regulatory and Economic Resources | Project No. 20060309 (JPA with City of Hialeah) | \$3,300,000.00 | JPA with City of Hialeah |
| Regulatory and Economic Resources | 7250 SW 13 Street | \$185,000.00 | SWU |
| Regulatory and Economic Resources | Midway Addition (Phases V, VI & VII) Drainage Improvement Project - Flagler Street to NW 7 Street from NW 87 Avenue to NW 79 Avenue PWD Project No. 20130249) (GOB 77452 Midway Addition Phases V VI VII | \$867,050.00 | GOB |
| Homestead | Improvements to Existing Buildings | \$500,000.00 | CIP Plan |
| Miami Dade College | Entrepreneurial Edu Center, Bldg. 1000 | \$148,720.00 | HMGP |
| Miami | Overtown Greenway Phase I | \$3,000,000.00 | PDM |
| Miami | Mary Brickell Village Drainage Improvements | \$1,400,000.00 | PDM |
| Cutler Bay | Canal Cleaning and Shaping Town wide | \$750,000.00 | Budgeted annually |
| Cutler Bay | Emergency Portable Air Conditioner Units | \$120,000.00 | Continue identifying and applying for new grant sources |
| Cutler Bay | Municipal AM Emergency Radio Broadcast Station | \$85,000.00 | Continue identifying and applying for new grant sources |
| Cutler Bay | Removal of Australian Pines and other Exotics | \$100,000.00 | Included in F.Y. 2019-2020 Budget. |
| Doral | Stormwater Improvements 5-Year CIP: Year 4 | \$1,047,694.00 | HMGP, PDM |
| Key Biscayne | Comprehensive Review of Local Laws and Regulations | \$5,000.00 | Stormwater Utility Fund |
| Regulatory and Economic Resources | 20130158 Drainage Improvement Project - SW 99 Ave & SW 101 St; SW 129 AVE & SW 116 ST | Unknown | SWU |
| Miami Springs | Electronic Car Charging Stations | \$30,000.00 | City Budget Item |

| Miami-Dade Local Mitigation Strategy Projects Reported from 01/2018 to 12/20/2018 | | | |
|--|--|------------------|--|
| Projects Under Construction | | Cost | Funding Source |
| Aviation | MIA South and Central Terminal Baggage Handling System Improvements | \$324,210,000.00 | TSA OTA, FDOT Grants, Future Financing |
| Police | MDPD Facilities Maintenance South Office Roof Replacement and Reinforcement | \$257,000.00 | Potential |
| Regulatory and Economic Resources | PWWM Project No. 20140177 NE 25 PL AND NE 187 ST | \$18,998.00 | SWU |
| Regulatory and Economic Resources | SW 207 Terrace from SW 124 Court to SW 126 Avenue Drainage Improvement Project | \$275,000.00 | SWU |
| Regulatory and Economic Resources | PWD Project No. 20130240 SW 2 Street to SW 4 Street from SW 82 Avenue and SW 87 Avenue | \$295,825.00 | SWU |
| Regulatory and Economic Resources | SW 2 Street to SW 4 Street from SW 82 Avenue to SW 87 Avenue Drainage Improvement Project PWD Project No. 20130240 | \$144,000.00 | SWU |
| Regulatory and Economic Resources | SW 152 Street and SW 82 Avenue Drainage Improvement Project | \$220,000.00 | SWU |
| Regulatory and Economic Resources | SW 220 St bet SW 103 CT & SW 102 Ave (10298 SW 229 ST | \$80,000.00 | SWU |
| Regulatory and Economic Resources | SW 132 Avenue from SW 117 Terrace to SW 120 Street | \$392,645.00 | PTP |
| Regulatory and Economic Resources | Seaboard Acres Pump Station Retrofit | \$3,317,350.00 | SWU/GOB |
| Regulatory and Economic Resources | Project No. 20120047 Town of Miami Lakes | \$93,321.00 | Unknown |
| Regulatory and Economic Resources | NW 74 Street from NW 87 Avenue to Palmetto Expressway | \$5,802,503.00 | PTP |
| Regulatory and Economic Resources | NW 74 Street from NW 114 Avenue to NW 107 Avenue Project No. 20060443 (PTP) | \$354,053.00 | PTP |
| Regulatory and Economic Resources | NW 37 Avenue from North River Drive to NW 79 Street (PWD Project No. 20040330) (PTP) | \$14,855,900.00 | PTP |
| Regulatory and Economic Resources | NE 167 Street & NE 14 Avenue | \$50,000.00 | SWU |
| Regulatory and Economic Resources | NE 18 Avenue from NE 191 Street to NE 199 Street (NE 18 Avenue & NE 199 Street) | \$280,241.00 | SWU |
| Regulatory and Economic Resources | NE 12 Ave & NE 169 Terrace | \$128,302.00 | SWU |
| Regulatory and Economic Resources | Larchmont Pump Station Retrofit | \$4,665,069.00 | SWU GOB |
| Regulatory and Economic Resources | Larchmont Pump Retrofit Station Phases 1 & 2 | \$3,300,000.00 | SWU/GOB |
| Regulatory and Economic Resources | Miami River Greenways | \$510,359.00 | GOB |

| Miami-Dade Local Mitigation Strategy Projects Reported from 01/2018 to 12/20/2018 | | | |
|--|---|-------------------------|-----------------------|
| Projects Under Construction | | Cost | Funding Source |
| Regulatory and Economic Resources | Drainage Improvement PWD Project No. 20130156) (GOB/SWU) | \$632,910.00 | GOB/SWU |
| Regulatory and Economic Resources | Arch Creek Phase IV- Pump Stations Improvements | \$120,000.00 | SWU |
| Homestead | Installation of Automatic Circuit Reclosers in the Electric Distribution System | \$4,500,000.00 | CIF |
| Sweetwater | Stormwater Improvements Phase IIB North remaining | \$620,000.00 | CDBG, GOB, DEP, SFWMD |
| Total | # of Projects: 89 | \$485,113,084.10 | |

| Miami-Dade Local Mitigation Strategy Projects Reported from 01/2018 to 12/20/2018 | | | |
|--|--|-----------------|---|
| Projects Funded Not Yet Started | | Cost | Funding Source |
| Cutler Bay | Storm Water Outfalls | \$500,000.00 | Budgeted annually through Stormwater Utility Fund |
| Cutler Bay | Debris Removal | \$400,000.00 | Will apply for Grants as needed |
| Cutler Bay | Preventive Pruning of Existing Town Tree Inventory | \$285,000.00 | Budgeted on going for F.Y. 2016-2017 |
| Miami Lakes | West Lakes Drainage Improvements Phase III | \$1,950,000.00 | Grants |
| Doral | Stormwater Improvements- NW 114 Ave (50 St-58 St) | \$805,790.60 | Stormwater Fees |
| Doral | Stormwater Improvements- NW 21 Street | \$191,532.25 | Stormwater Fee |
| Doral | Stormwater Improvements 5-Year CIP: Year 5 | \$1,435,908.00 | HMGP, PDM |
| Key Biscayne | Community Center Generator | \$75,000.00 | CIF |
| Key Biscayne | Reverse 911 Community Notification System | \$105,000.00 | CIF |
| Key Biscayne | Hazard Mitigation involvement | \$10,000.00 | General Fund |
| Regulatory and Economic Resources | 1851 NW 46 ST | \$55,000.00 | SWU |
| Regulatory and Economic Resources | SW 172 St and SW 142 Ct | \$185,125.00 | GOB |
| Regulatory and Economic Resources | Highland Oaks Ditch Improvements | \$360,000.00 | Grants |
| Regulatory and Economic Resources | NW 79 ST to NW 72 ST between E 11 AVE to NW 21 AVE | \$11,770,000.00 | Grants |
| Regulatory and Economic Resources | NE 171 St and NE 213 St between NE 15 Ave and NE 34 Ave | \$1,800,000.00 | SWU |
| Regulatory and Economic Resources | Secondary Canal improvements Planned Project General improvements, Dredging and Cross section GRAHAMS DAIRY CANAL NW 138 ST from NW 97 AVE TO NW 107 AVE | \$575,934.00 | SWU |
| Regulatory and Economic Resources | Ditch improvements Planned Project General improvements, Dredging and Cross section GRAHAMS DAIRY CANAL NW 138 ST FROM NW 107 AVE TO NW 117 AVE | \$150,000.00 | SWU |
| Regulatory and Economic Resources | NW 97 Ave canal improvements NW 97 Ave Between NW 138 St and NW 170 St | \$3,600,000.00 | SWU |

| Miami-Dade Local Mitigation Strategy Projects Reported from 01/2018 to 12/20/2018 | | | |
|--|---|----------------|-----------------------|
| Projects Funded Not Yet Started | | Cost | Funding Source |
| Regulatory and Economic Resources | Secondary Canal improvements Planned Project General improvements, Dredging and Cross section SW 42 ST from SW 167 Ave to SW 157 Ave | \$786,000.00 | SWU |
| Regulatory and Economic Resources | Flagler St to NW 7 St between Palmetto Expressway and NW 72 Ave (CNW-W-1), NW 6 St to SW 8 St between SW 127 Ave and FL Turnpike (CC4-N-10) | \$1,800,000.00 | Grants |
| Regulatory and Economic Resources | Arch Creek Pipe Replacement 42' PIPE | \$350,898.7 | SWU |
| Regulatory and Economic Resources | Biscayne Shores 109 & 110 Pump Station Retrofit | \$1,114,593.27 | SWU |
| Regulatory and Economic Resources | 6350 NW 72 AVE NW 64 St from NW 72 Ave TO NW 74 Ave | \$250,000.00 | SWU |
| Regulatory and Economic Resources | NW 18 from NW 62 St to NW 71 St | \$561,573.00 | SWU |
| Regulatory and Economic Resources | NW 87 Terrace from NW 33 Avenue to NW 35 Avenue | \$250,000.00 | SWU |
| Regulatory and Economic Resources | NW 68 St from NW 33 AVE to NW 35 Ave | \$240,000.00 | SWU |
| Regulatory and Economic Resources | NW 1 AVE FROM NW 131 ST TO NW 135 ST | \$291,000.00 | SWU |
| Regulatory and Economic Resources | Drainage improvement NE 199 St & NE 15 Court | \$282,635.39 | SWU |
| Regulatory and Economic Resources | Roadway drainage NW 79 AVE from NW 199 St to 200 St | \$152,304.00 | SWU |
| Regulatory and Economic Resources | Roadway drainage improvement NE 5 PL FROM NE 143 ST TO NE 145 ST | \$2,250,000.00 | SWU |
| Regulatory and Economic Resources | Roadway Drainage general drainage improvements | \$2,500,000 | SWU |
| Regulatory and Economic Resources | NE 163 St to NE 79 St east NE 6 Ave | \$900,000.00 | Grants |
| Regulatory and Economic Resources | SW 152 Terr and SW 160 St between SW 126 Ave and S Dixie Hwy | \$900,000.00 | Grants |

| Miami-Dade Local Mitigation Strategy Projects Reported from 01/2018 to 12/20/2018 | | | |
|--|---|-----------------|--|
| Projects Funded Not Yet Started | | Cost | Funding Source |
| Regulatory and Economic Resources | SW 152 St to SW 138 St, From SW 95 Ct to SW 117 Ave | \$20,444,000.00 | SWU |
| Regulatory and Economic Resources | From Bahama Drive to Grouper Drive From Holiday Road to Anchor Road | \$1,500,000.00 | Grants |
| Regulatory and Economic Resources | SW 72 St to SW 88 St between 107 Ave and 117 Ave | \$450,000.00 | Grants |
| Regulatory and Economic Resources | Flagler St to SW 8 St between SW 87 Ave and SW 92 Ave | \$2,420,000.00 | Grants |
| Regulatory and Economic Resources | NW 107 Ave Canal Improvements | \$3,600,000.00 | SWU |
| Regulatory and Economic Resources | 19551 NW 57 PLACE | \$330,473.00 | SWU |
| Regulatory and Economic Resources | 8150 SW 53 AVE | \$250,000.00 | SWU |
| Regulatory and Economic Resources | Roadway Drainage general drainage improvements mitigation of flood complaints | \$326,618.00 | SWU |
| Regulatory and Economic Resources | 1930 NW 86 TER | \$374,123.00 | SWU |
| Public Housing and Community Development | Liberty Square | \$3,000,000.00 | Mitigation Grant |
| Public Housing and Community Development | Liberty Square | \$3,240,000.00 | Mitigation Grant |
| Public Housing and Community Development | Liberty Square | \$2,916,000.00 | Mitigation Grant |
| Miami Gardens | NW 13 Avenue/Industrial Area Drainage Outfall Project | \$230,000.00 | Stormwater Funding |
| Miami Gardens | NW 203 Street Culvert-Drainage Project | \$570,000.00 | Grants and Loans for Public Works & Development Facilities |
| Miami Gardens | Culvert and Headwall Project | \$400,000.00 | Potential |
| Animal Services | test | Unknown | test |
| Regulatory and Economic Resources | NW 44 St from NW 27 Ave to NW 29 Ave | \$66,001.00 | GOB |

| Miami-Dade Local Mitigation Strategy Projects Reported from 01/2018 to 12/20/2018 | | | |
|--|---|--------------|-----------------------|
| Projects Funded Not Yet Started | | Cost | Funding Source |
| Regulatory and Economic Resources | NW 5 Ave and NW 109 St | \$265,674.41 | GOB |
| Regulatory and Economic Resources | NW 18 Ave and NW 62 Ter | \$141,558.00 | CDB5 |
| Regulatory and Economic Resources | NW 19 Ave and NW 83 St | \$119,283.79 | QNIP |
| Regulatory and Economic Resources | NW 24 Ave from NW 79 St to NW 78 St | \$41,861.00 | GOB |
| Regulatory and Economic Resources | 1325 SW 103 Pl Westbrook Park | \$52,618.90 | GOB |
| Regulatory and Economic Resources | NW 7 St from NW 62 Ave to NW 65 Ave | \$427,135.24 | GOB |
| Regulatory and Economic Resources | NE 90 Street from NE 10 Court to N. Bayshore Drive | \$377,144.80 | GOB |
| Regulatory and Economic Resources | SW 97 Avenue to SW 94 Avenue from SW 8 Street to SW 14 Street | \$329,852.00 | QNIP |
| Regulatory and Economic Resources | SW 88 Court from SW 52 Street to SW 54 Street | \$317,028.32 | GOB |
| Regulatory and Economic Resources | 10130 SW 91 Terrace | \$25,000.00 | SWU |
| Regulatory and Economic Resources | NE 144 St between NE 12 Ave and NE 14 Ave | \$127,278.76 | GOB |
| Regulatory and Economic Resources | NW 24 Avenue and NW 87 Terrace | \$165,231.22 | GOB |
| Regulatory and Economic Resources | NW 83 Street from NW 31 Avenue to NW 33 Avenue | \$272,900.81 | GOB |
| Regulatory and Economic Resources | NW 67 Avenue from NW 167 Street to NW 168 Street | \$357,588.95 | GOB |
| Regulatory and Economic Resources | SW 152 Avenue from SW 60 Terrace to SW 68 Lane | \$378,578.00 | GOB |
| Regulatory and Economic Resources | SW 92 Avenue and SW 42 Terrace (Blue Lakes Park) Swale Blocks | \$73,945.00 | GOB |

| Miami-Dade Local Mitigation Strategy Projects Reported from 01/2018 to 12/20/2018 | | | |
|--|--|--------------|-----------------------|
| Projects Funded Not Yet Started | | Cost | Funding Source |
| Regulatory and Economic Resources | SW 97 Avenue from West Flagler Street to SW 8 Street | \$274,000.00 | QNIP |
| Regulatory and Economic Resources | NE 10 Avenue from NE 147 Street to NE 164 Street | \$336,496.00 | GOB |
| Regulatory and Economic Resources | NE 151 Street from NE 18 Avenue to NE 20 Avenue | \$277,062.00 | GOB |
| Regulatory and Economic Resources | SW 10 Ter from SW 84 Ct to SW 86 Ct | \$14,900.00 | GOB |
| Regulatory and Economic Resources | SW 93 Ct from SW 51 St to SW 48 St | \$55,000.00 | GOB |
| Regulatory and Economic Resources | SW 122 St and SW 111 Ave (general area) | \$211,140.00 | GOB |
| Regulatory and Economic Resources | SW 131 St from SW 87 Ave to SW 89 Ave | \$377,369.00 | GOB |
| Regulatory and Economic Resources | SW 95 Ct and SW 5 Ln | \$85,200.00 | GOB |
| Regulatory and Economic Resources | SW 9 Ter from SW 42 Ave to SW 43 Ave | \$155,437.00 | GOB |
| Regulatory and Economic Resources | NE 214 St from NE 26 Ave to Dixie Hwy | \$12,392.00 | SWU |
| Regulatory and Economic Resources | NW 26 Ave and NW 68 St | \$36,376.00 | GOB |
| Regulatory and Economic Resources | NE 12 Avenue and NE 111 Street | \$108,809 | SWU |
| Regulatory and Economic Resources | NW 80 Avenue and NW 66 Street | \$273,689.00 | SWU |
| Regulatory and Economic Resources | NW 22 Avenue from NW 54 Street to NW 56 Street | \$67,464.00 | SWU |
| Regulatory and Economic Resources | South Biscayne River Dr from NW 5 Ave to NW 6 Ave | \$38,396.00 | SWU |
| Regulatory and Economic Resources | NW 110 St and NW 2 Ct | \$23,293.00 | SWU |

| Miami-Dade Local Mitigation Strategy Projects Reported from 01/2018 to 12/20/2018 | | | |
|--|---|------------------------|---|
| Projects Funded Not Yet Started | | Cost | Funding Source |
| Regulatory and Economic Resources | SW 144 Ave from SW 280 St to SW 284 St | \$88,500.00 | SWU |
| Regulatory and Economic Resources | NW 79 Ter from NW 25 Ave to NW 27 Ave | \$50,255.00 | SWU |
| Regulatory and Economic Resources | NE 149 Street and NE 8 Avenue | \$1,000,000 | SWU |
| Regulatory and Economic Resources | NE 10 Ave from NE 147 to NE 149 Street | \$250,000 | SWU |
| Regulatory and Economic Resources | Drainage Improvement Project (PWD Project No. 20090162) (SWU) | \$488,000.00 | SWU |
| Regulatory and Economic Resources | NW 18 Place to NW 17 Court from NW 133 Street to NW 134 Street | \$291,000 | SWU |
| Regulatory and Economic Resources | SW 127 Ter from SW 115 Ave to End of Cul-de-sac | \$276,577.00 | GOB |
| Regulatory and Economic Resources | NW 74 St to NW 58 St between NW 87 Ave and NW 77 Ct | \$900,000.00 | Grants |
| Regulatory and Economic Resources | SW 92 Avenue FROM SW 8 Terrace to SW 12 Street Roadway DRAINAGE | \$616,537.22 | SWU |
| Regulatory and Economic Resources | NW 76 ST FROM NW 36 Avenue to NW 37 Avenue | \$425,000.00 | SWU |
| Regulatory and Economic Resources | SW 157 AVE Canal Interconnect | Unknown | Capital |
| North Bay Village | Deep Well Injection System Rehabilitation | \$633,737.00 | Stormwater Fund, Department of Environmental Protection Grant |
| North Bay Village | Roadway Resurfacing | \$1,500,000.00 | State Revolving Fund Loan Program, Citizen Independent Transportation Trust, Local CIPs Gas Tax |
| Total | # of Projects: 95 | \$89,339,817.63 | |

2019 Projects

| Miami-Dade Local Mitigation Strategy Projects Reported from 01/2019 to 8/1/2019 | | | |
|--|--|---------------------|--|
| Completed Projects | | Cost | Funding Source |
| Doral | Stormwater Improvements 5-Year CIP: Year 4 | \$1,047,694.00 | City's Stormwater Fee |
| North Miami Beach | Establishment of Emergency Operations Center | \$385,000.00 | CIP Project |
| North Miami Beach | Drainage in Alleyways | \$50,000.00 | CIP Project |
| North Miami Beach | NE 161st Street Roadway and Drainage Improvements | \$400,000.00 | CIP Project |
| Libraries | North Central repair roofing system | \$135,000.00 | G.O.B. |
| Libraries | South Miami repair roofing system | \$250,000.00 | G.O.B. |
| Aventura | NE 29 PL Phase II South | \$721,000.00 | City funded project |
| Mount Sinai | Protect the Power Supply | \$5,000,000.00 | Grants and Loans for Public Works & Development Facilities, Federal match to state funding |
| Mount Sinai | New Tower Storm Drainage Improvements | \$3,000,000.00 | Department of Environmental Protection |
| Mount Sinai | Energy Center 1 | \$8,994,838.00 | State funding |
| Mount Sinai | Utility Bridge and Power Distribution | \$7,351,169.00 | HMGP |
| Mount Sinai | Greenspan Roof and Enclosures | \$300,000.00 | HMGP |
| Mount Sinai | Surgical Tower | \$6,500,000.00 | FEMA |
| Mount Sinai | Energy Center Facility | \$250,000.00 | Internal Funding |
| Mount Sinai | Energy Center 2 | \$3,964,239.00 | FEMA |
| Mount Sinai | Relocate Operating Rooms | \$16,500,000.00 | N/A |
| Mount Sinai | Medical Gas Tank Farm | \$1,300,000.00 | CDBG, Disaster Recovery Initiative, HMGP |
| Libraries | Edison Center install impact resistant windows | \$175,000.00 | GOB |
| North Miami | Embankment stabilization at Keystone Point Bridge #2 | \$2,100,000.00 | This project will be shuffle ready project. |
| North Miami | Security for City Hall | \$62,750.00 | Unknown |
| North Miami | Global Positioning System | \$18,000.00 | Unknown |
| North Miami | Flood Prevention and Mitigation: Drainage Basin13 | \$600,000.00 | City funds. |
| Miami Springs | Electronic Car Charging Stations | \$30,000.00 | City Budget |
| Miami Lakes | Lake Sarah Drainage Improvements | \$2,200,000.00 | DEP and SFWMD |
| Public Housing and Community Development | Ward Tower | \$1,920,400.00 | Mitigation Grant, CIF |
| Total | # of projects: 25 | \$63,255,090 | |

| Miami-Dade Local Mitigation Strategy Projects Reported from 01/2019 to 8/1/2019 | | | |
|--|---|----------------------|-------------------------|
| Projects Under Construction | | Cost | Funding Source |
| North Miami Beach | Install Additional Storm Water Basins or Increase Existing Basins | \$60,000.00 | CIP |
| North Miami Beach | Proactive Hurricane Tree Trimming | \$150,000.00 | CIP |
| North Miami Beach | Clean and Improve Drainage Systems | \$428,400.00 | CIP |
| North Miami Beach | Stormwater Improvements City-wide | \$340,000.00 | CIP |
| North Miami Beach | Miami Industrial District Drainage & Roadway Improvements | \$800,000.00 | CIP |
| North Miami Beach | Install Additional Stormwater Basins | \$60,000.00 | CIP |
| North Miami Beach | Renovation of Eastern Shores Outfall pipes | Unknown | Stormwater Fund |
| Florida City | Sealing the Palm Drive Canal | \$7,100,000.00 | City and County funds |
| Mount Sinai | CCC & Blum Exterior Door Hardening | \$153,000.00 | CDGR-DR |
| Aviation | MIA South and Central Terminal Baggage Handling System Improvements | \$324,210,000.00 | Federal and State funds |
| Total | # of Projects: 10 | \$333,301,400 | |

| Miami-Dade Local Mitigation Strategy Projects Reported from 01/2019 to 8/1/2019 | | | |
|--|--|--------------------|-------------------------------|
| Projects Funded Not Yet Started | | Cost | Funding Source |
| Doral | Stormwater Improvements - NW 21 Street | \$191,532.25 | Stormwater fee |
| Doral | Stormwater Improvements 5-Year CIP: Year 5 | \$1,435,908.00 | Stormwater fee |
| Doral | Stormwater Improvements - NW 114 Ave (from 50 Street to 58 Street) | \$805,790.60 | HMGP, Stormwater fee |
| Fire Rescue | Structural Rehabilitation for Miami-Dade Fire Rescue Headquarters | \$1,000,000.00 | HMPG, PDM |
| Mount Sinai | CCC & Blum Exterior Door Hardening | \$153,000.00 | CDGR-DR |
| Vizcaya Museum and Gardens | Main House MEP System Flood proofing | \$1,000,000.00 | HMGP, General Obligation Bond |
| Total | # of Projects: 6 | \$4,586,230 | |

Acronyms

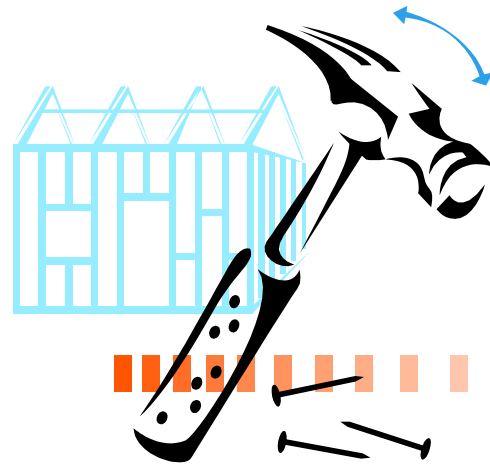
| | |
|----------------|---|
| CDBG | Community Development Block Grant |
| CDBG-DR | Community Development Block Grant-Disaster Recovery |
| CIF | Capital Improvement Fund |
| CIP | Capital Improvement Project |
| DEO | Florida Department of Economic Opportunity |
| FEMA | Federal Emergency Management Agency |
| FDEM | Florida Division of Emergency Management |
| FDEP | Florida Department of Environmental Protection |
| FDOT | Florida Department of Transportation |
| FMA | Flood Mitigation Assistance Grant Program |
| EPA | U.S. Environmental Protection Agency |
| GOB | General Obligation Bond |
| HMGP | Hazard Mitigation Grant Program |
| JPA | Joint Participation Agreement |
| NRCS | U.S. Natural Resources Conservation Service |
| QNIP | Quality Neighborhood Improvement Program |
| PA | Public Assistance |
| PDM | Pre-Disaster Mitigation Grant Program |
| PTP | People's Transportation Plan |
| SFWMD | South Florida Water Management District |
| SWU | Stormwater Utility |
| WO | Work Order |

**Partners
make it happen!**



We're still at it so there's more to come!

The
Local Mitigation Strategy



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