# Community Development Department Planning Division

160 Lake Avenue Palm Coast, FL 32164 386-986-3736

### City of Palm Coast Floodplain Management Annual Progress Report August 2019

#### **Executive Summary**

The purpose of this document is to provide an annual account of activities associated with the City of Palm Coast ("City") Floodplain Management Program. This document facilitates information that can benefit public officials, businesses, and the Citizens of Palm Coast.

The Flagler County Local Mitigation Strategy (LMS) serves as the City's Floodplain Management Plan under the Community Rating System (CRS) of the National Flood Insurance Program (NFIP).

Under CRS Activity 510, the City is required to complete a Floodplain Management Plan annual progress report. This document serves as that report.

#### **Annual Progress Report Development and Staff Roles**

This document was prepared by one (1) of the City Certified Floodplain Managers (CFM), Denise Bevan, and subsequently reviewed by the four (4) remaining City CFM staff, Kendra Iannotti, Jordan Myers, Michael Brennan and Mike Peel; Ms. Myers serves as the Environmental Planning Technician and achieved her certification in June 2018. The referenced staff and the associated Floodplain, Outreach, Awareness & Management (FOAM) Team members, routinely conduct meetings to ensure that CRS program activities are managed and processed throughout the year. Additional discussion of the Team's role and responsibilities are discussed in the following sections.

Ms. Denise Bevan serves as the primary CFM / CRS Coordinator for the City of Palm Coast since April 2016. She manages the City's CRS program and facilitates updates throughout all City Departments. Ms. Bevan currently serves as the Team Leader of the FOAM (Floodplain Outreach, Awareness & Management) Team comprised of staff from various divisions. Further, Ms. Bevan serves as the primary City Liaison for the Flagler County Local Mitigation Strategy (LMS) Working Group.

Mr. Mike Peel serves as the City's Engineer and achieved CFM certification in June 2017. He has also held a professional license in civil engineering since July 1985. He is responsible for the overall management of the City's stormwater system and the National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) permitting program. Mr. Peel also consults on application requests for FEMA map revisions.

Ms. Jordan Myers is the primary reviewer of elevation certificates during the building permit stage of development. Her core responsibility revolves around the development process and reviews land use changes, development agreements, plats, and site development applications.

Mrs. Kendra Iannotti actively participates in all CRS program activities and CFM meetings. Mrs. Iannotti's primary responsibility is within the City Manager's Office. She provides support for public information that includes website updates, brochures and library resources.



Mr. Michael Brennan secured the CFM designation in March 2013 and has dually served as a City Liaison to the LMS Working Group. Mr. Brennan is the Stormwater Manager and oversees a multitude of flood hazard mitigation projects. His role and knowledge will continue to serve the CRS program and has proved to be a tremendous asset.

#### FOAM (Floodplain Outreach, Awareness & Management) Team Mission Statement:

To support and educate our citizens about flood hazards and the National Flood Insurance Program, while ensuring a safe community through steadfast stewardship of floodplain management, hazard mitigation, open space protection, and comprehensive stormwater management.

The Team's priority is to ensure the City's esteemed reputation in the floodplain community is maintained while providing a safe environment for our citizens.

Members, Titles and CRS Activity Focus:

• Denise Bevan, CFM

City Administration Coordinator; Role: CRS Coordinator & City Floodplain Manager (All Activities)

• Mike Peel, CFM

Engineer; Role: Activities 360, 450, 540

• Carmelo Morales

Stormwater Design and Construction Engineer; Role: Activities 360, 450, 540

• Jordan Myers, CFM

Environmental Planning Technician; Role: All Activities

• Kendra Iannotti, CFM

Executive Assistant to the City Manager; Role: Activities 330, 350, 360

• Mike Brennan, CFM

Stormwater Manager; Role: Activities 360, 450, 540

• Damaris Ramirez

Planner: Role: All Activities

Conrad Troha

Stormwater Specialist Coordinator; Role: Activities 360, 450, 540

• Cathy Almberg

GIS Specialist; Role: Activities 420, 440, 501

#### Adoption of the LMS / Updates

The Flagler County LMS was adopted by *Resolution No. 2016-49* by the City Council on May 17, 2016. The LMS is required to be updated every five years and is due for an update by May 2021. This report respects the effective LMS that gives Flagler County and its municipalities the opportunity to determine what all-hazards mitigation actions need to be taken to minimize damage before the next disaster strikes.

City staff continues to work with County staff and other LMS stakeholders quarterly to enhance floodplain management activities across the entire County.

As part of this annual report, the City of Palm Coast reviews the LMS project list. Concurrently, the 5-year Capital Improvement Plan (CIP) has been evaluated for qualifying projects; fiscal year 2019 projects have been approved via adoption of the budget. City staff merged the documents into the "Prioritized Project List" in preparation of Hazard Mitigation Grant Program (HMGP) Notice of Funding Availability



resulting from Hurricane Irma Disaster Declaration (FEMA 4337-DR-FL). Please see Attachment A for the City mitigation projects submitted to the Florida Division of Emergency Management for consideration.

As part of the 2018 Floodplain Management Annual Report, the following projects were highlighted as part of the HMGP Hurricane Matthew Disaster Declaration (FEMA-4283-DR). All of the following projects were successfully awarded FEMA grant contracts.

- City Hall Generator
- 15 Wastewater Collection System Lift Station Generators
- 15 PEP Area Pump Station Generators

#### Purpose and Objectives of the LMS

The purpose of the LMS is to develop a unified approach among County and municipal governments for dealing with identified hazard and hazard management problems, including flooding, in the Flagler County area. It established an ongoing process that makes hazard mitigation part of the daily routine for the entire community. The LMS also helps establish funding priorities for current proposed mitigation projects and develop priority mitigation projects to be completed with such disaster assistance funds as may be available after a disaster. Implementation of planned, pre-identified, and cost-effective mitigation measures not only helps reduce loss of life, destruction of property, and damage to the environment, but also aids in the decision making process during the recovery and reconstruction following a disaster.

The primary hazard mitigation goals, objectives, and guiding principles of the LMS are to:

- Goal 1.0 Minimize impacts from hazards to infrastructure, critical facilities, and property.
- **Goal 2.0** Minimize the impact to natural resources (including water resources, wetlands, and coastal habitats).
- Goal 3.0 Promote community awareness of vulnerability and mitigation options.
- Goal 4.0 Reduce potential hazard related economic losses to businesses.
- **Goal 5.0** Strengthen regional relationships in regards to mitigation among municipalities, agencies, and other organizations.
- **Goal 6.0** Promote methods of funding mitigation projects, including innovative methods.



#### Flagler County Local Mitigation Strategy Working Group

As noted in the LMS, "the Working Group acts as a local coordination committee to support and recommend projects for various grant programs; recommends to other regulating agencies or organizations ideas on how to better mitigate the community against natural disasters; and provides educational outreach to the general public about ways to prepare for disaster and mitigation opportunities for their homes and businesses." The Group's core consists of representatives of local municipalities, local organizations and County departments, and is coordinated by staff of the County Emergency Management Division. The LMS Working Group meetings are scheduled quarterly scheduling with supplemental topic-based meetings (i.e. floodplain managers, infrastructure, wildfire mitigation, etc.). The Working Group will continue to regularly review and revise its Prioritized Project List that are eligible for federal and state funding, i.e. HMGP, Flood Mitigation Assistance (FMA) Program, etc.

#### **List of Mitigation Initiatives**

The LMS Working Group has established a list of mitigation projects. The list contains projects that are eligible for HMGP, FMA, and other federal and state funding. Many of the projects listed help to mitigate the potential of flood hazards.

See Attachment A to the report for the complete Prioritized Project List. Of those listed, the following projects were submitted to the Florida Division of Emergency Management for eligibility consideration of Hurricane Irma HMGP funding.

- Project #PC-14: Manhole Dish Project Reduce stormwater from entering sewer collection
- Project #PC-15: 5 Lift Station Generators

As referenced in the previous section, the list is a living document and routinely updated. Additional consideration by the Working Group is anticipated due to the ranking process also being modified through the LMS rewrite.

Of the originally listed projects, most have been completed since being placed on the list. The following section provides an inventory of "Weir Canal Palm Coast" and "Bridge Rehabilitation". Photographs have been provided for the projects that were in construction in the previous report and now completed.

Weir Canal Palm Coast projects:

-LO-1: Completed (reported in 2015)

-PA-1: Completed (reported in 2015, an Emergency Project)

-BS-2: Completed (2017)

-L-1: Completed (2018)





Bridge Rehabilitation projects: -734063: Completed (2017)

-734064: Completed (2018)









Beyond LMS projects, the City maintains a well-structured and rigid maintenance schedule of the stormwater drainage network that reduces the risk of flooding hazards. The following section inventories maintenance activities conducted since the last report in August 2018.

- Swale maintenance and rehabilitation (29.5 miles)
- Valley gutters (5 pipes; 225 linear feet)
- Culvert pipe replacement (17 pipes; 1,121 linear feet)
- Culvert pipe cleaning (3,631 pipes; 94,406 linear feet)
- Drainage ditch maintenance (376 miles 2x per year)
- Freshwater canal weed control (493 acres continual maintenance)



#### **Enhanced Stormwater Management Program**

Beginning in October 2018, the City implemented a new enhanced stormwater program. This program includes improvements to level of service and a greater emphasis on maintenance of major waterways, pipe crossings, ditches, inspection programs, and an accelerated Capital Improvement Program. This enhanced program is focused on a more proactive approach to maintenance and improvements. Recent improvements to the maintenance program have included full Geographic Information System (GIS) mapping and documentation of all swale issues and work performed. Staff is currently working on the inclusion of ditch maintenance and pipe replacements to a GIS mapping program. The infrastructure assets are being field verified with a new inspection program concurrently commencing. Since the release of the last report, a new Stormwater & Engineering Department with 55 employees was established that consolidated functions of Community Development and Public Works departments. The recently formed Stormwater Division within the Stormwater and Engineering Department includes the addition of personnel and specialized equipment to help meet the needs of the enhanced program. The reorganization was driven by the referenced enhanced stormwater management program to address aging infrastructure as well as drainage issues across Palm Coast.

The City is also pursuing service contracts from consultants and contractors to help perform maintenance that is outside of current staff and equipment capabilities. Staff has performed several ditch clearing projects that have resulted in positive improvements to neighborhood drainage systems. Additionally, neighborhood-wide ditch projects are in the planning stages with anticipated completion dates within the next reporting cycle. The enhanced stormwater program also includes the development of a City-wide Stormwater Master Plan.



The Citywide Stormwater Master Plan will identify Base Flood Elevations (BFE) in previously unstudied areas, identify areas susceptible to potential flooding, areas in need of improvements and additional maintenance, and assist the City with developing a Capital Improvements Program that will better address areas of concern and identify projects that will provide the greatest benefit to the citizens of Palm Coast. The Master Plan modeling will also assist in better identifying potential impacts from new development and aide the development community in providing the most efficient lowest impact stormwater management facilities.

The Stormwater Master Plan is a living document that will continue to be refined and built upon as more data and improved technologies are developed.

The actions taken within the section(s) above are part of the City of Palm Coast 5-year Capital Improvement Plan (CIP). See Attachment B for the existing approved budget.

#### **CRS Program Participation**

The LMS references the importance and benefit of the City's participation in the Community Rating System (CRS) of the National Flood Insurance Program (NFIP). Under the CRS, the City undertakes flood protection measures beyond the minimum requirements of the NFIP. By doing so, the City achieved a



"Class 4" certification, resulting in a 30% discount of flood insurance premiums issued within the Special Flood Hazard Area (SFHA) in the City effective on May 1, 2017. For properties outside SFHA, 10% discount will remain the same. No discounts are applicable to those holders of preferred risk policies that are already significantly discounted. As a result of Palm Coast's CRS participation, policy holders realize an annual savings of approximately \$100,000. Approximately 5,500 Palm Coast citizens and businesses currently have active flood insurance policies.

The City achieves CRS points by undertaking various activities that promote flood protection. These activities are conducted by Floodplain Managers and various City departments. Following is a summary of certain ongoing activities by the Floodplain Managers and various departments:

| Activity   | Departments  | CRS Activity # |
|--|--|----------------|
| Collect, review, and maintain elevation certificates. Provide copies to the public.  | Floodplain Managers/ Planning/ Zoning/ Stormwater and  | 310            |
|  | Engineering  |                |
| Provide Flood Insurance Rate Map (FIRM) information. Provide Flood Zone Determination Letters to the public. Review, maintain and update FEMA Letters of Map Amendments or Revisions. Provide flood insurance information. | Floodplain Managers  | 320            |
| Provide outreach to the community. Provide flood protection information.   | Floodplain Managers  | 330            |
| Provide flood protection information at the library and on City website  | Floodplain Managers/ Information Technology/ Flagler County Public Library                     | 350            |
| Provide technical advice and assistance to public with flooding conditions. Annually publicize the service.  | Floodplain Managers/<br>Stormwater and<br>Engineering  | 360            |
| Encourage residents and businesses to purchase flood insurance coverage  | Floodplain Managers  | 370            |
| Preserve floodplain in open space and public acquisition.  | Planning   | 420            |
| Maintaining higher regulatory standards. Provide low density areas for floodplain properties. Review new development for compliance. Enforcement of regulations.   | Floodplain Managers/ Planning/ Stormwater and Engineering/ Building Division/ Code Enforcement | 430            |
| Maintain and use digitized maps. Day to day management of the floodplain. Maintenance of elevation reference marks.  | Floodplain Managers/<br>Information Technology/<br>Stormwater and<br>Engineering               | 440            |
| Stormwater management, soil and erosion control, and water quality. Review building elevation to meet floodplain regulations.  | Stormwater and Engineering/ Building Division/Planning/ Floodplain Managers                    | 450            |
| Maintain repetitive loss records. Provide yearly notice of property protection.  | Floodplain Managers  | 502            |



| Implement and update Floodplain Management Plan.   | Flagler County/ Planning/ | 510 |
|--|---------------------------|-----|
|  | Capital Improvements/     |     |
|  | Floodplain Managers       |     |
| Drainage system maintenance. Enforce and publicize | Floodplain Managers/      | 540 |
| stream dumping regulations.                        | Stormwater and            |     |
|  | Engineering               |     |
| Emergency response program.                        | Stormwater and            | 610 |
|  | Engineering/ Fire         |     |
|  | Department /Flagler       |     |
|  | County EMS                |     |

These activities are now reviewed through a new centralized collection process for annual recertification purposes for all CRS communities. The Team transmitted the annual recertification package on April 25, 2019 and received a partial determination on April 30, 2019 from the reviewing ISO reviewer that City of Palm Coast's floodplain management program remains consistent with the CRS standard. Staff is awaiting the final determination that includes the review of submitted elevation certificates.

#### Certified Floodplain Manager Program

The Association of State Floodplain Managers (ASFPM) has established a national program for professional certification of floodplain managers. The program recognizes continuing education and professional development that enhances the knowledge and performance of local, state, federal, and private-sector floodplain managers. As referenced, two staff members in the City's Planning Division, one in the City Manager's Office, and two in the Stormwater & Engineering Department have achieved the status of Certified Floodplain Manager (CFM). These certifications reflect the City's commitment to professional services in implementing the City's Floodplain Management Plan.

#### **Training**

The City CFM staff have participated in many training sessions to maintain the required Continuing Education Units (CEU) and beyond. Two staff attended the Annual Florida Floodplain Manager's Conference in April. Numerous other training activities were conducted amongst the remaining Certified Floodplain Managers to maintain their certifications.

#### **Outreach**

City staff targets opportunities to initiate and partner with external agencies to educate the general public regarding floodplain management and associated effects on insurance policies and safety matters. Each Spring, an informational brochure is released to the public via a utility bill insert. In addition, staff participates in various events to promote flood awareness, and the <a href="City's website">City's website</a> serves as a resource for tips and other helpful information.

- Annual Intracoastal Waterway Cleanup (September 9, 2018)
- Flagler County Home Show (January 26-27, 2019)
- Arbor Day Celebration (May 4, 2019)
- Regional Leadership Academy (January 30, 2019)
- Stormwater Public Outreach Meeting(s) (March 25, 2019, August 2, 2019, and August 20, 2019)

2019 Home Show 104 flood determinations issued



#### Flood Insurance Rate Maps and Flood Insurance Study

On June 6, 2018, the updated Flood Insurance Rate Maps and Study took effect. Since the new FIRMs took effect, Team members have been busy with the increase volume of requests for flood zone determinations because of residents receiving lender letters notifying that flood zone(s) changed and resulting mandate to purchase flood insurance. The notifications started hitting households the week of June 19<sup>th</sup>. During this reporting cycle, CFMs responded to 77 requests for a flood zone determination beyond those issued during the Flagler County Home Show.

#### **Summary**

The Flagler County Local Mitigation Strategy (LMS), which serves as the City's Floodplain Management Plan under the Community Rating System (CRS) of the National Flood Insurance Program (NFIP), was formally adopted by the City of Palm Coast City Council on May 17, 2016. As part of the LMS, the City accounts for Mitigation Initiative Projects and associated status. Two weir projects and ongoing stormwater maintenance have been completed since the 2018 annual report with many other structures planned for rehabilitation / construction in future years as part of the Stormwater Master Plan.

As part of the CRS participation requirements, the City of Palm Coast participates in annual recertification through Insurance Services Office (ISO). Activities are undertaken by various City departments on an ongoing basis to retain the CRS certification, which results in substantial discounts to flood insurance premiums in the City of Palm Coast.

These activities are now reviewed through a new centralized collection process for annual recertification purposes for all CRS communities. On April 25, 2019, Staff transmitted the recertification package and received a partial determination on April 30, 2019 from the reviewing ISO reviewer. The City of Palm Coast's floodplain management program remains consistent with the CRS standard and remains a "Class 4" community. Staff is awaiting the final determination that includes the review of submitted elevation certificates.

For insurance holders located within a special flood hazard area (A and AE zones), a 30% reduction is applied at renewal which is an average savings of \$120 per policy. For properties outside the Special Flood Hazard Area, 10% discount remains the same.

City staff have steadily improved educational outreach activities beyond previous years. These activities are critical to expand awareness regarding the importance of infrastructure maintenance, flood insurance, emergency preparedness and City services. The <u>City website content</u>, publications, utility bill inserts, and annual event venue elements have been enhanced to include information on the Flood Insurance Rate Map changes that took effect on June 6, 2018 and the City's Enhanced Stormwater Management Program.



## Attachment A

| File # | Rank | Score | Project Name   | Project Description  | Hazard<br>Mitigated*/<br>Jurisdiction             | Agency<br>Representative                | Time<br>frame | Possible Funding<br>Source(s)            | New or Existing<br>Buildings/<br>Infrastructure | 2016 Goal/<br>Objective   | Status**                   | Last Updated | Notes  |
|--------|------|-------|--|--|---|---|---------------|--|---|---|----------------------------|--------------|--|
| PC-6   |      | 80    | PEP Panel Replacement  | Retrofit PEP Panel with current upgraded panel with new power receptacle to allow operation be portable generator during extended FPL power loss.  | All Hazards/ Palm<br>Coast                        | City of Palm Coast                      | 7 yrs         | HMGP, Ad Valorem<br>Tax                  | Existing<br>Infrastructure                      | Goal 1 Minimize<br>Impacts                                      | ongoing                    | 2/17/2016    | Input from Danny Ashburn (July 6th): All new installations are panels with side mounted receptacles. When staff is performing pep maintenance and they find the old style aluminum panels they are replaced with the newer panels. In the future as staffing and workload allows the plan is to go into each individual section and change out all panels without receptacles.  The program is still in progress but the five year timeline needs to be increased. |
| MDJ-24 |      | 77    | Develop a Community Wildfire Protection Plan                   | Develop a countywide CWPP and integrate it in with<br>the LMS. Wildfire is one of Flagler's most<br>threatening hazards.   | Wildfires/ All<br>Jurisdictions                   | Florida Forest Service                  | 1 year        | Florida Forest<br>Service, PDM           | New & Existing<br>Bldgs & Infras                | All Goals   | In Process                 | 11/15/2018   | Work has begun with efforts by Julie Allen   |
| MJD-1  |      | 77    | Backup Generator @ Government Services<br>Complex Lift Station | Purchase & install 75kw backup generator for the utility lift station at the Flagler Co. Gov. Services Complex. Complex has backup but sewer does not.   | Wind, Flood/City of<br>Bunnell & Flagler<br>Co.   | Flagler County                          | <12<br>months | HMGP, PDM                                | Existing<br>Infrastructure                      | Obj 1.6 Improve<br>resiliency of<br>water/sewer<br>facilities   | Submitted<br>under DR-4337 | 11/18/2015   | generator would operate bunnell infrastructure but services a Flagler county building  |
| MJD-2  |      | 75    | Backup Generator @ Inmate Admin Facility                       | Purchase & install 200kw backup generator for the utility lift station and the admin center at the Flagler Co. inmate facility.  | Wind/ City of<br>Bunnell/ Flagler<br>County       | Flagler County                          | <12<br>months | HMGP, PDM                                | Existing<br>Infrastructure                      | Obj 1.6 Improve<br>resiliency of<br>water/sewer<br>facilities   | in progress                | 11/15/2018   |  |
| BNL-9  |      | 74    | Hardening of Bunnell City Hall                                 | Harden Bunnell City Hall   | Wind/ City of<br>Bunnell                          | City of Bunnell                         | 2015          | HMGP, PDM, capital funds                 | Existing Buildings                              | 1.3; 1.7  | in progress                | 12/10/2016   | Procurement came back significantly higher than grant award  |
| MJD-23 |      | 70    | Stormwater Analysis along 100 near Airport and FPC             | Engineering study to plan for mitigation of longstanding stormwater drainage issues along SR 100 in front of Target and FPC  | Floods/ Palm<br>Coast/ All<br>Jurisdictions       | School Board, COPC,<br>DOT, Flagler Co. | 2 yrs         | HMGP, CDBG,<br>School Board Tax;<br>FDOT | New &Existing Infrastructure and Bldgs          | Obj. 1.2 Identify mitigation projects                           | Updated                    | 2/27/2016    | rough estimate of \$200,000 in planning funds  |
| FHF-2  |      | 70    | Increase Emergency Back Up Generation<br>Power                 | Add an additional generator to be able to run chillers and keep hospital operational during power outages. Currently they can only operate emergency lights and some power with their generators | Wind, Power<br>Failure/ All<br>Jurisdictions      | Florida Hospital Flagler                | <2 years      | HMGP, PDM,<br>hospital funds             | Existing Buildings                              | Goal 1; Obj 4.3   | contract issued            | 11/15/2018   |  |
| FHF-1  |      | 70    | FHF Windstorm Resistance Mitigation Retrofit                   | Retrofit the portions of the building to new critical facility standards which would include new impact windows and hardening of walls   | Wind/ All<br>Jurisdictions                        | Florida Hospital Flagler                | <1 year       | HMGP, PDM,<br>hospital funds             | Existing Buildings                              | Goal 1; Obj 4.3   | submitted<br>under DR-4337 | 11/15/2018   |  |
| MJD-7  |      | 70    | Harden Flagler County Fire Station #51                         | Install impact resistant windows and doors and generator   | Wind/ Flagler<br>County                           | Flagler County BOCC                     | <12<br>months | HMGP, PDM, capital<br>funds              | Existing Buildings                              | Obj 1.7 Retrofit<br>structures                                  | in progress                | 11/15/2018   |  |
| MJD-8  |      | 70    | Harden Flagler County Fire Station #71                         | Install impact resistant windows and doors and add a generator   | Wind/ Flagler<br>County                           | Flagler County BOCC                     | <12<br>months | HMGP, PDM, capital funds                 | Existing Buildings                              | Obj 1.7 Retrofit structures                                     | in progress                | 11/15/2018   |  |
| PC-12  |      | 70    | City Hall Generator  | Install a generator at COPC City Hall so that it can continue to provide essential governmental services during power failure situations   | Power Failure/City<br>of Palm Coast               | City of Palm Coast                      | <2            | HMGP, PDM, Capital<br>program funds, R&R | Existing Buildings                              |   | in progress                | 1/2/2019     | Reevaluating cost and overall project needs. BCA will have to be run again. Generator needed to be upsized from original project submission  |
| FLG-11 |      | 70    | Generator @ Hidden Trails Community Center                     | Add a 125kw generator to the Hidden Trails  Community Center   | Power Failure/<br>Flagler County                  | Flagler County                          | <1 yr         | HMGP, PDM, Capital funds                 | Existing Infrastructure                         | Obj 1.2 and 3.1   | in progress                | 11/15/2018   |  |
| MDJ-25 |      | 70    | Inmate Facility Generator                                      | Install a 750 KW Generator to fully power the jail and repurpose the existing generator  | Power Failure/ All<br>Jurisdictions               | Flagler County                          | <1 yr         | HMGP, PDM, Capital funds                 | Existing buildings                              | Obj 1.2 and 1.7   | in progress                | 11/15/2018   |  |
| PC-10  |      | 69    | PEP Area Pump Station Generators                               | Provide stationary generator at each of the 15<br>Pump Station Locations with an automatic transfer<br>switch  | Power Failure,<br>Flooding/ City of<br>Palm Coast | City of Palm Coast                      | <1 yr         | HMGP, PDM, Capital program funds, R&R    |   | 1.6; 1.7  | contract issued            | 11/15/2018   |  |
| PC-11  |      | 69    | PC Wastewater Collection System Lift Station<br>Generators     | Provide a stationary generator and automatic<br>transfer station at each of the 15 lift station<br>locations   | Power Failure/City<br>of Palm Coast               | City of Palm Coast                      | <1            | HMGP, PDM, Capital<br>program funds, R&R | _   | 1.6; 1.7  | contract issued            | 11/15/2018   | contracts received. Bids came back high for engineering. Will submit actual bids after jan 15h to update contract budget sheets and BCA can be re-run  |
| FLB-2  |      | 69    | Wastewater Pump & Lift Station Generators                      | purchase 5 portable generators for to ensure operation of lift stations during power outages greater than 12 hours   | Floods/ Flagler<br>Beach                          | City of Flagler Beach                   | 6 months      | HMGP, PDM, CIP<br>Fund                   | Existing<br>Infrastructure                      | Obj 1.7 & Obj 1.6<br>resiliency of<br>water/sewer<br>facilities | contract issued            | 11/15/2018   |  |
| FLG-10 |      | 69    | Individual Lift Station Generators                             | Add 5 generators to certain lift stations throughout the county  | Power Failure/<br>Flagler County                  | Flagler County                          | <1 yr         | HMGP, PDM, Capital<br>funds              | I Existing<br>Infrastructure                    | Obj 1.6   | contract issued            | 11/15/2018   |  |

| File # | Rank | Score | Project Name   | Project Description  | Hazard<br>Mitigated*/<br>Jurisdiction                       | Agency<br>Representative               | Time<br>frame | Possible Funding<br>Source(s)           | New or Existing<br>Buildings/<br>Infrastructure | 2016 Goal/<br>Objective  | Status**                             | Last Updated | Notes   |
|--------|------|-------|--|--|---|--|---------------|---|---|--|--------------------------------------|--------------|---|
| FLB-4  |      | 66    | Potable Well Generators  | Well 10 and 12R do not have backup power. During a power outage, it is important to continue to provide water to the populace, without overtaxing other two wells.                                 | Wind/Flood/<br>Flagler Beach                                | City of Flagler Beach                  | 1 year        | CIP Fund, HMGP<br>PDM                   | Existing<br>Infrastructure                      | Obj 1.6 Improve<br>resiliency of<br>water/sewer<br>facilities                        | contract issued                      | 11/15/2018   |   |
| FLG-1  |      | 64    | Malacompra Drainage System- Phase 1  | Construction of backbone system including stormwater ponds and outfall   | Flood/ Flagler<br>County                                    | Flagler County BOCC                    | <24<br>months | HMGP, PDM, FMA,<br>legislative funds    | New & Existing<br>Infrastructure                | Obj 1.3, 1.6, 1.7,<br>1.8, 1.9   | out for bid                          | 1/2/2019     | initial bids came back high- out for bid again  |
| FLG-2  |      | 64    | Malacompra Drainage System- Phase 2  | Construction of the main trunk line  | Flood/ Flagler<br>County                                    | Flagler County BOCC                    | <24<br>months | HMGP, PDM, FMA,<br>legislative funds    | New & Existing<br>Infrastructure                | Obj. 1.6 Improve<br>resiliency of<br>water/sewer<br>facilities                       | Planning<br>complete                 | 3/3/2016     | \$4 million?  |
| FLG-3  |      | 64    | Malacompra Drainage System- Phase 3  | Construction of side street lateral collectors in the<br>Marineland Acres subdivision  | Flood/ Flagler<br>County                                    | Flagler County BOCC                    | <24<br>months | HMGP, PDM, FMA,<br>legislative funds    | New & Existing<br>Infrastructure                | Obj. 1.6 Improve<br>resiliency of<br>water/sewer<br>facilities                       | Planning<br>complete                 | 3/3/2016     | \$6 million?  |
| MJD-6  |      | 62    | Harden Flagler County Fire Station #31   | Install impact resistant windows and doors   | Wind/ Flagler<br>County                                     | Flagler County BOCC                    | <12<br>months | HMGP, PDM, capital funds                | Existing Buildings                              | Obj 1.7 Retrofit structures  | deferred                             | 9/18/2014    | rough estimate for FDEM of \$150,000  |
| BNL-7  |      | 70    | Hardening of Bunnell Fire Station  | Flagler County will apply on behalf of the City of<br>Bunnell to Harden the Bunnell Fire Station and add<br>generator  | Wind/ City of<br>Bunnell                                    | Flagler County                         | 2018          | HMGP, PDM, capital funds                | Existing Buildings                              | Obj 1.7 Retrofit structures  | Submitted<br>under DR-4337<br>& HLMP | 11/15/2018   |   |
| SB-3   |      | 64    | Bunnell Elementary Generator Wiring  | Add wiring to make building 10 have full generator backup  | Power Failure/ All Jurisdictions                            | Flagler County School<br>Board         | 1 year        | HMGP, PDM,<br>general funds             | Existing Buildings                              | Goal 1; Obj 1.1 & 1.2  | in progress                          | 6/19/2018    | project was awarded under Hurricane Loss Mitigation Program (State Shelter Retrofit<br>Program) at 100% funding in January 2018 |
| SB-4   |      | 62    | Rymfire Generator Wiring   | add transfer switches and buildings 4 &6 to existing generator   | Power Failure/ All Jurisdictions                            | Flagler County School<br>Board         | 1 year        | HMGP, PDM,<br>general funds             | Existing Buildings                              | Goal 1; Obj 1.1 &<br>1.2   | in progress                          | 6/19/2018    | project was awarded under Hurricane Loss Mitigation Program (State Shelter Retrofit<br>Program) at 100% funding in January 2018 |
| FLG-6  |      | 62    | Replace and Repurpose Generator at Justice<br>Center                                     | Replace existing 300 KW generator at the County's<br>Justice Center with a 600 KW generator so that the<br>entire building will have backup power and move<br>existing generator to a fire station | Wind/Flagler<br>County                                      | Flagler County BOCC                    | 1 year        | HMGP, PDM, Capita<br>Funds              | Existing Buildings                              | Goal 1 Minimize<br>Impacts   | under contract<br>DR-4283            | 11/15/2018   |   |
| FLB-3  |      | 60    | Rebuild/Enhance Wastewater Pump Station<br>#2  | Above-ground pump is rusting away rapidly. Brand<br>new pumps need to be installed below-ground, with<br>a complete rebuild and upgrade of connecting<br>infrastructure.                           | Floods/Winds/<br>Flagler Beach                              | City of Flagler Beach                  | 7 months      | CIP Fund, HMGP<br>PDM                   | Existing<br>Infrastructure                      | Obj. 1.7   | Application<br>Materials<br>Complete | 2/17/2016    |   |
| FLG-7  |      | 60    | Bay Drive Park Drainage Project  | Bay Drive Park routinely floods due to heavy rains.  Drainage improvements are needed so that homeowners can access their properties   | Severe Storms,<br>Flood, Trop<br>Cyclones/Flagler<br>County | Flagler County BOCC<br>(Engineering)   | 9 months      | Capital Funds, park<br>grant            | Existing Buildings                              | impacts  | In Progress                          | 12/17/2018   | Out for bid- incorporated into Malacompra drainage project  |
| BNL-8  |      | 58    | Hardening of Bunnell Public Works Facility   | Harden the Bunnell Public Works Facility   | Wind/ City of<br>Bunnell                                    | City of Bunnell                        | 2017          | HMGP, PDM, capital funds                | Existing Buildings                              | Obj 1.7 Retrofit structures  | Updated                              | 12/9/2016    | rough estimate for FDEM of \$200,000  |
| PC-13  |      | 56    | Community Center Generator   | Install a generator at the COPC community center so that it can serve as a comfort and information station during power outages  | Power Failure/City<br>of Palm Coast                         | City of Palm Coast                     | 2018          | HMGP, PDM, Capita<br>program funds, R&R |   | Obj. 6.2; 5.2  | in progress                          | 1/2/2019     | not cost effective using FEMA's BCA toolkit- being funded using city funds  |
| FLB-6  |      | 56    | Alleviate Nuisance Ponding on A1A in Flagler<br>Beach                                    | During normal rainfall events, A1A in Flagler Beach becomes littered with larges, deep puddles.  | Flood/ Flagler<br>Beach                                     | City of Flagler Beach                  | 3 years       | FDOT, FDEP, PDM,<br>FMA                 | Existing<br>Infrastructure                      | Goal 1 Minimize<br>Impacts; Goal 2;<br>Goal 4  | New                                  | 3/2/2016     | DOT has jurisdiction of A1A roadway in Flagler Beach. In certain areas this will be addressed by A1A                            |
| MJD-11 |      | 66    | Harden the Flagler County Health Department<br>Building                                  | Install impact resistant windows and doors   | Wind/All<br>Municipalities                                  | Flagler County BOCC                    | <12<br>months | HMGP, PDM, capital<br>funds             | Existing Buildings                              | Obj 1.7 Retrofit structures  | Submitted<br>under DR-4337<br>& PDM  | 11/15/2018   |   |
| FLG-4  |      | 56    | Restoration of Shoreline in Styles Creek at<br>Princess Place Preserve in Flagler County | Restore enhanced erosion areas along the meanders of Styles Creek from Pellicer Creek to the Island House at the Preserve  | Erosion/Flagler<br>County                                   | Flagler County BOCC<br>Land Management | TBD           | USFWS, NERT                             | Existing<br>Infrastructure                      | Objs. 2.4 Enhance<br>coastal<br>ecosystems; 2.5 ID<br>long term erosion<br>solutions | Still current                        | 12/27/2016   |   |

| File # | Rank | Score | Project Name  | Project Description   | Hazard<br>Mitigated*/<br>Jurisdiction                               | Agency<br>Representative               | Time<br>frame | Possible Funding<br>Source(s)        | New or Existing<br>Buildings/<br>Infrastructure | 2016 Goal/<br>Objective   | Status**                         | Last Updated | Notes  |
|--------|------|-------|---|---|---|--|---------------|--------------------------------------|---|---|----------------------------------|--------------|--|
| PC-4   |      | 54    | Drought Mitigation Pumps permanently<br>installed at weirs                                | Install high volume, low pressure water pumps at the sites of the Cities Surface Water Control Structures (SWCS) to pump stormwater upstream to recharge upstream aquifers and control water levels. A co-located SCADA System would provide automatic recharge during drought conditions, replenishing the ground water table and maintaining the proper head pressure to reduce possible saltwater intrusion. | Drought, Saltwater<br>Intrusion/Palm<br>Coast                       | City of Palm Coast                     | 5 years       | HMGP, Ad Valorem<br>Tax, PDM, SJRWMD | New equipment<br>at Existing<br>Infrastructure  | Goal 1 Minimize<br>Impacts  | Feasibility Study<br>in Progress | 2/17/2016    | Feasibility study in progress by SJWMD; next step would be modeling and then implementation  |
| PC-5   |      | 54    | Water Resource weir installed on St Joe Canal<br>at corner of US-1 and Palm Coast Parkway | Constructing a Water Resource Control Structure (WRCS) on St Joe Canal at the corner of US-1 and Palm Coast Parkway to hold back ground water to replenish and rehydrate the well fields west of US-1   | Drought, saltwater<br>intrusion /Palm<br>Coast                      | City of Palm Coast                     | 5 years       | HMGP, PDM, Ad<br>Valorem Tax         | New<br>Infrastructure                           | Goal 1 Minimize<br>Impacts  | Being Studied                    | 2/17/2016    | Being Studied for feasibility by SJWMD   |
| FLB-5  |      | 52    | Ocean Palm Subdivision Stormwater<br>Improvement  | New swales, pipes, outfall, retention ponds and improvements to an existing outfall to help mitigate flooding to homes in the surrounding area  | Flood/ Flagler<br>Beach   | City of Flagler Beach                  | 6 months      | CIP Fund, HMGP<br>PDM, Legislative   | New & Existing<br>Infrastructure                | Goal 1 Minimize<br>Impacts  | In Progress                      | 2/18/2016    | money received and study in progress   |
| MJD-9  |      | 62    | Harden Flagler County Public Library and add<br>Generator                                 | Install impact resistant windows and doors and generator  | Wind, Power<br>failure / Flagler<br>County                          | Flagler County BOCC                    | <12<br>months | HMGP, PDM, capital funds             | Existing Buildings                              | Obj 1.7 Retrofit structures   | Submitted<br>under DR-4337       | 11/15/2018   |  |
| MJD-13 |      | 52    | Westside Drainage System Planning &<br>Permitting (Phase 1)                               | Conduct a conceptual study of major drainage systems to improve the efficiency of drainage and improve water quality in Western Flagler Co.   | Flood/ Flagler<br>County  | Flagler County BOCC                    | <12<br>months | HMGP, PDM, FMA,<br>legislative funds | New & Existing<br>Infrastructure                | Objs. 1.2, 1.6, 1.7,<br>1.9   | New                              | 9/18/2014    | need at least \$200,000 to conduct a study   |
| MJD-14 |      | 48    | Demo Rebuild of Fire Station 92 & FireFlight hanger                                       | Construct a new Fire Station #92 outside the floodprone area and build a bigger station to house fire admin.  | Flood/ Flagler<br>County  | Flagler County BOCC                    | <36<br>months | HMGP, PDM, FMA, capital funds, taxes | New & Existing<br>Buildings                     | Objs. 1.8, 2.2  | updated                          | 1/2/2019     | Fireflight relocated across airport campus. Station 92 flooded during Irma and was cleaned after. Design is occurring for a new fire station           |
| MJD-16 |      | 48    | Elevation/reconstruction of Fire Station #81  | Elevate the current station in the floodprone area and harden the facility to withstand 150mph winds  | Wind & Flood/<br>Flagler County                                     | Flagler County BOCC                    | <36<br>months | HMGP, PDM, capital funds, taxes      | New & Existing<br>Buildings                     | Objs. 1.1, 1.7  | deferred                         | 1/2/2019     | preference would be for a new station.   |
| MJD-19 |      | 48    | Emergency Preparedness and Local Mitigation<br>Strategy Educational Pamphlet              | All hazard/ all jurisdiction flip page guidebook on all<br>hazard preparedness for the residents of Flagler<br>County as well as education on benefits of joining<br>LMS Taskforce  | All Hazard/ All<br>Jurisdictions                                    | Flagler County<br>Emergency Management | 1-1.5 yrs     | Ad Valorem Tax,<br>EMPA, HMGP        | New<br>Infrastructure                           | Goal 3 Promote<br>community<br>awareness of<br>mitigation               | ongoing                          | 11/15/2018   | brochures created and handed out throughout the year   |
| FFS-1  |      | 47    | County Hazardous Vegetation Wildfire<br>Mitigation  | Create defensible space, reduce fuel loads throughout county property   | Wildfire/All<br>Jurisdictions                                       | Florida Forest Service                 | 1 year        | HMGP, General<br>Fund                | Existing Buildings<br>and<br>Infrastructure     | Goal 2  | deferred                         | 3/13/2017    | FFS is continually doing wildfire mitigation. More specific locations will be identified during final stages of CWPP. Current project is not specific. |
| MJD-10 |      | 36    | Harden the UF/IFAS Extension Office   | Install impact resistant windows and doors  | Wind/ Flagler<br>County   | Flagler County BOCC                    | <12<br>months | HMGP, PDM, capital funds             | Existing Buildings                              | Obj 1.7 Retrofit structures   | New                              | 9/18/2014    | unsure if this is actually a feasible hardening project.   |
| MJD-21 |      | 35    | Flagler County Shore Protection Project   | Protect shoreline from increasing rate of erosion and deteriorating dune system   | Floods, Tropical<br>Cyclones, Severe<br>Storms/All<br>Jurisdictions | Flagler County<br>Engineering          | <1 yr         | HMGP, CDBG, Ad<br>Valorem Tax        | Existing<br>Infrastructure                      | Objs. 2.4 Enhance<br>coastal<br>ecosystems; 2.5 ID<br>erosion solutions | in progress                      | 12/22/2016   | Erosion study completed in Feb 2014. Hurricane Matthew wiped out portions of A1A so this project may be revised and implemented in 2017                |
| FLG-12 |      | 69    | County Hazardous Vegetation Wildfire<br>Mitigation  | Create defensible space, reduce fuel loads<br>throughout county property  | Wildfire/Flagler<br>County  | Flagler County BOCC<br>Land Management | 1 year        | HMGP, General<br>Fund                | Existing Buildings<br>and<br>Infrastructure     | Goal 2  | under contract<br>DR-4283        | 11/15/2018   |  |
| FLG-13 |      | 69    | Portable Generators   | Purchase 4 portable generators to take around to lift stations throughout the county  | Power Failure/<br>Flagler County                                    | Flagler County General<br>Services     | <1 yr         | HMGP, General<br>Fund                | Existing Buildings                              | 1.6; 1.7  | under contract<br>DR-4283        | 11/15/2018   | HMGP application revised to include 4 generators instead of the 1 originally submitted.  |
| FLG-14 |      | 69    | Haw Creek Community Center Generator  | Purchase a permanent generator so the community center can function as a comfort station and POD post disaster  | Power Failure/<br>Flagler County                                    | Flagler County General<br>Services     | <1 yr         | HMGP, General<br>Fund                | Existing Buildings                              | 1.6; 1.7  | under contract<br>DR-4283        | 11/15/2018   |  |
| FLG-15 |      | 69    | Espanola Community Center   | Purchase a permanent generator so the community center can function as a comfort station and POD post disaster  | Power Failure/<br>Flagler County                                    | Flagler County General<br>Services     | <1 yr         | HMGP, General<br>Fund                | Existing Buildings                              | 1.6; 1.7  | under contract<br>DR-4283        | 11/15/2018   |  |

| File # | Rank | Score | Project Name   | Project Description  | Hazard<br>Mitigated*/<br>Jurisdiction        | Agency<br>Representative | Time<br>frame | Possible Funding<br>Source(s)       | New or Existing<br>Buildings/<br>Infrastructure | 2016 Goal/<br>Objective                                       | Status**                             | Last Updated | Notes   |
|--------|------|-------|--|--|--|--------------------------|---------------|-------------------------------------|---|---|--------------------------------------|--------------|---|
| MDJ-26 |      | 68    | Humane Society Generator   | Add a generator to the humane society  | Power Failure/ All<br>Jurisdictions          | Humane Society           | <1 year       | HMGP, donations                     | Existing Building                               | Goal 1; 4.2; 6.2  | Submitted<br>under DR-4337<br>& HLMP | 11/15/2018   |   |
| SB-5   |      | 68    | Matanzas High School Generator                                       | Add a generator to Matanzas High so it can serve as a shelter  | Power Failure/ All<br>Jurisdictions          | School Board             | <1 year       | HMGP, capital funds                 | Existing Building                               | Goal 1; Obj 1.1 & 1.2   | Submitted<br>under DR-4337           | 11/15/2018   | also submitted under HMGP for Hurricane Michael DR-4399   |
| PC-14  |      | 77    | Manhole Dish Project   | install flood prevention devices to reduce inflow and infiltration into central sewer system   | Floods/ Palm Coast                           | City of Palm Coast       | <1 year       | Capital R & R                       | Existing<br>Infrastructure                      | Goals 1 & 2   | Submitted<br>under DR-4337           | 11/15/2018   |   |
| FLG-17 |      | 52    | Alred House Mitigation Reconstruction                                | Demo & rebuild the Alred house in Marineland Acres   | Floods/ Flagler<br>County                    | Flagler County           | <2 years      | HMGP, FMA                           | Existing Building                               | 1.3; 1.7  | deferred                             | 11/15/2018   | Federal cost share max is 150,000; not cost effective   |
| GH-1   |      | 58    | Grand Haven Village Center N. Retrofit                               | Harden the Village Center North Bldg to serve as a comfort station and EOC for the community   | All Hazards/ Palm<br>Coast                   | Grand Haven CDD          | <3 years      | HMGP, GH CDD,<br>PDM                | Existing Building                               | 1.0; 1.2; 1.7   | deferred                             | 11/15/2018   | not cost effective using FEMA's BCA toolkit; construction planned on building may result in new, impact windows |
| MDJ-27 |      | 70    | Harden Fire Station #72 (Red Roof In)                                | Harden building with impact windows, doors and bay doors, add a 200kw generator  | Wind, Power<br>Failure/ All<br>Jurisdictions | Flagler County BOCC      | <1 year       | HMGP, capital funds,<br>PDM         | Existing Building                               | Goal 1; Obj 1.7   | New                                  | 12/17/2018   | building evaluation and project scoping still under way   |
| FLG-18 |      | 62    | Harden Government Services Bldg #2                                   | Install impact glass and doors on entire building  | Wind/ Flagler<br>County                      | Flagler County BOCC      | 1 year        | HMGP, capital funds,<br>PDM         | Existing Building                               | Goal 1; Obj 1.7   | New                                  | 12/7/2017    | estimate approx \$500,000 for new windows but will be very disruptive to offices to install                     |
| FLG-16 |      | 77    | Fixed Generator at Well fields                                       | Purchase 2 (100KW) generators to power Plantation<br>Bay and Eagle Lakes wellfields during power outage<br>situations  | Power<br>failure/Flagler<br>County           | Flagler County BOCC      | 1 year        | HMGP, PDM, Capital funds            | Existing<br>Infrastructure                      | Goal 1; obj 1.6;1.7   | Submitted<br>under DR-4337           | 11/15/2018   |   |
| FLG-19 |      | 52    | Guttmann House First Floor Removal                                   | Remove existing bathroom, 2 bedrooms and perhaps laundry room that is below BFE and convert to open space  | Floods/ Flagler<br>County                    | Flagler County BOCC      | <1 year       | HMGP, homeowner,<br>NFIP (ICC), FMA | Existing Building                               | 1.3; 1.7  | in progress                          | 11/15/2018   | not cost effective under FEMA BCA- Homeowners to complete project on their own.                                 |
| PC-15  |      | 77    | 5 Pump Station Generators  | Add 5 generators to certain lift stations throughout the city of Palm Coast  | Power Failure/<br>Palm Coast                 | City of Palm Coast       | <1 year       | HMGP, capital funds                 | Existing<br>Infrastructure                      | 1.6; 1.7  | Submitted<br>under DR-4337           | 11/15/2018   |   |
| FLG-20 |      | 62    | Harden New Palm Coast Sheriff's Office<br>Substation & add generator | Harden New Palm Coast Sheriff's Office Substation & add generator  | Power failure/All<br>Jurisdictions           | Flagler County BOCC      | <1 year       | HMGP, capital funds                 | Existing<br>Infrastructure                      | 1.6; 1.7  | Submitted<br>under DR-4337           | 11/15/2018   | impact windows being installed as part of building remodel  |
| FLG-21 |      | 58    | Harden the Hammock Community Center & add generator                  | Harden the Hammock Community Center and add a generator  | Wind/Flagler<br>County                       | Flagler County BOCC      | <1 year       | HMGP, capital funds                 | Existing<br>Infrastructure                      | 1.6; 1.7  | deferred                             | 11/15/2018   | location not ideal for permanent generator and wind hardening   |
| BNL-10 |      | 69    | 2 Bunnel Lift Station Generators                                     | install generator, transfer switch and concrete pad<br>at 2 lift stations in Bunnell   | Power Failure/City<br>of Bunnell             | City of Bunnell          | <1 year       | HMGP, capital funds                 | Existing<br>Infrastructure                      | Obj 1.6 Improve<br>resiliency of<br>water/sewer<br>facilities | Submitted<br>under DR-4337           | 11/15/2018   |   |
| FLG-22 |      | 59    | Malacompra Greenway Wildfire Mitigation                              | Remove approximately 90 acres of dead vegetation posing a wildfire threat  | Wildfire/Flagler<br>County                   | Flagler County BOCC      | <1            | НМСР                                | Existing Buildings                              | Goal 2  | Submitted<br>under DR-4337           | 11/15/2018   | submitted again under HMGP for Hurricane Michael DR-4399  |
| FLB-7  |      | 62    | S. Central Drainage Project  | Construct open swales on Central Ave and buy exfiltration pipes on Daytona Ave, collecting water for recharge and channeling the flow to the saltwater marsh and ICW W of Flagler Ave. | Flood/Flagler<br>Beach                       | City of Flagler Beach    | <1            | НМБР                                | New & existing<br>bldgs &<br>infrastructure     | 1.5; 1.6  | in progress                          | 2/27/2019    | funded under SJRWMD program. Project moving forward   |

<sup>\*</sup>Hazards mitigated do not necessarily match up to the hazards identified in Section 4 of the LMS Plan; hazards may be attributed to the impacts caused by the various hazards identified in Section 4. For example, "Power Outage" may appear in the hazard mitigated column which would equate to projects that have power failure as an impact such as tropical cyclones, tornadoes and severe storms.

If the hazard mitigated is listed as "Wind," it refers to hazards that contain high wind, such as tropical cyclones, severe storms, & tornadoes. The "Flood" hazard would mitigate hazards such as sea level rise, coastal flooding, storm surge & floods.

<sup>\*\*</sup>Deferred projects are listed as such due to a lack of funding.



Approved CM 10-18-18 BM

# $\begin{array}{c} Attachment \ B \\ \text{City of Palm Coast Next Year Budget Analysis} \end{array}$

2% 178,051 47% 4,133,059

|                    |  | 2018 Revised<br>Budget | 2018<br>Projected<br>Amount | 2019<br>Requested<br>Amount |
|--------------------|--|------------------------|-----------------------------|-----------------------------|
| 5420/5422          | TOTAL STORMWATER FUND EXPENDITURES   | 8,751,546              | 8,929,597                   | 12,884,605                  |
| E420EE00           | CTORMWATER CONCTRUCTION MCT & ENCINEERING  | 4 722 400              | 4 742 202                   | E 020 404                   |
| 54205509<br>012000 | STORMWATER CONSTRUCTION MGT & ENGINEERING   SALARIES AND WAGES                             | 1,733,488<br>0         | 1,712,282<br>0              | 5,030,484                   |
| 012000             |  | 0                      | -                           | 707,001                     |
|                    | EXISTING SALARIES & WAGES  |                        | 0                           | 555,848                     |
|                    | NEW STORMWATER SYSTEM SPECIALIST (FULLY BURDENED) NEW PROJECT COORDINATOR (FULLY BURDENED) |                        | 0                           | 79,092                      |
| 012010             | CAR/CELL ALLOWANCE   | 0                      | 0                           | 72,061<br>4,840             |
| 012010             | OVERTIME   | 0                      | 0                           | 10,000                      |
| 014000             | FICA TAXES   | 0                      | 0                           | 35,081                      |
| 021000             | MEDICARE   | 0                      | 0                           | 35,081<br>8,211             |
| 022000             | RETIREMENT CONTRIBUTIONS   | 0                      | 0                           | 65,417                      |
| 023000             | HEALTH INSURANCE   | 0                      | 0                           | 102,214                     |
| 023030             | LIFE INSURANCE   | 0                      | 0                           | 2,486                       |
| 023035             | DISABILITY   | 0                      | 0                           | 2,457                       |
| 024000             | WORKERS COMPENSATION   | 0                      | 0                           | 14,730                      |
| 024000             | PERSONAL SERVICES  | 0                      | 0                           | 952,437                     |
| 031000             | PROFESSIONAL SERVICES  | 105,000                | 127,503                     | 331,000                     |
| 031000             | Detail for PROFESSIONAL SERVICES   | 103,000                | 127,303                     | 331,000                     |
|                    | STORMWATER RATE STUDY  |                        | 20,000                      | 0                           |
|                    | LIDAR (cost share)   |                        | 37,503                      | 0                           |
|                    | MS4 PERMIT ANNUAL EXPENSES   |                        | 60,000                      | 71,000                      |
|                    | MASTER PLANNING SERVICES   |                        | 00,000                      | 210,000                     |
|                    | Stormwater capital Project Design Services   |                        | 10,000                      | 50,000                      |
| 034000             | OTHER CONTRACTUAL SVCS   | 528,488                | 520,088                     | 501,200                     |
| 00.000             | Detail for OTHER CONTRACTUAL SVCS  | 3=3, 133               | 0_0,000                     | 30_,_33                     |
|                    | WEED CONTROL ON FRESHWATER CANALS  |                        | 452,388                     | 408,000                     |
|                    | WEED CONTROL COST SHARE RIBBON LAKE  |                        | 600                         | 600                         |
|                    | ALTERNATIVE TREATMENTS ON FRESHWATER CANALS  |                        | 0                           | 20,000                      |
|                    | CANAL BANK CLEARING  |                        | 5,000                       | 5,000                       |
|                    | ANNUAL TELEMETY SUBSCRIPTION   |                        | 4,800                       | 6,600                       |
|                    | Upgrade Bulldog & Clubhouse GC to Mission Communications Units                             |                        | 35,000                      | 1,000                       |
|                    | WATER CONTROL REPLACEMENT EQUIPMENT  |                        | 2,500                       | 30,000                      |
|                    | SEDIMENT REMOVAL   |                        | 12,800                      | 5,000                       |
|                    | PUMP STATION MAINTENANCE & REPAIR  |                        | 7,000                       | 10,000                      |
|                    | WATER CONTROL SCADA SUPPORT & SERVICE  |                        | 0                           | 15,000                      |



2% 47% 178,051 4,133,059

|        | 20  | 18 Revised<br>Budget | 2018<br>Projected<br>Amount | 2019<br>Requested<br>Amount |
|--------|---|----------------------|-----------------------------|-----------------------------|
| 040000 | TRAVEL & EXTERNAL TRAINING  | 0                    | 0                           | 15,173                      |
|        | AMERICAN SOCIETY OF FLOODPLAIN MANAGERS (ASFM) FFMA CONFERENCE                    |                      |                             | 3,150                       |
|        | FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) MOT TRAINING                          |                      |                             | 870                         |
|        | FLORIDA LAKE MANAGEMENT SOCIETY ANNUAL SYMPOSIUM                                  |                      |                             | 1,600                       |
|        | FLORIDA STORMWATER ASSOCIATION (FSA) CONFERENCE                                   |                      |                             | 1,700                       |
|        | FLORIDA STORMWATER ASSOCIATION (FSA) TRAINING                                     |                      |                             | 1,763                       |
|        | IMAGINIT TECHNOLOGIES AUTOCAD TRAINING  |                      |                             | 2,790                       |
|        | SCADA MAINTENANCE & OPERATION TRAINING  |                      |                             | 3,000                       |
|        | ADDITIONAL TRAINING AND ITEMS TO MAINTAIN/RENEW LICENSES & CERTIFICATIONS         |                      |                             | 300                         |
| 052000 | OPERATING SUPP&EQUIPUNDER\$5K   | 0                    | 0                           | 11,960                      |
|        | TRUCK & HAND TOOLS, MISC. SUPPLIES  |                      |                             | 1,500                       |
|        | CALIBRATION & REPLACEMENT OF MINOR/SMALL SURVEY EQUIPMENT                         |                      |                             | 2,000                       |
|        | UNIFORM SHIRTS 62 SHIRTS @ \$30/SHIRT   |                      |                             | 1,860                       |
|        | Boot Stipends - CM&E Staff  |                      |                             | 1,000                       |
|        | 4GB SURFACE FOR NEW SWALE SPECIALIST INCLUDING 24" MONITOR & 30" MONITOR          |                      | 0                           | 2,800                       |
|        | 4GB Surface for new Project Coordinator including 1 24" monitor & 1 30" monitor   |                      | 0                           | 2,800                       |
| 052005 | FUEL CHARGE   | 0                    | 8,000                       | 8,000                       |
| 054000 | BOOKS, PUB, SUBSCRIP, MEMBERSH  | 0                    | 0                           | 3,714                       |
|        | ASSOCIATION OF STATE FLOODPLAIN MANAGERS (ASFPM) MEMBERSHIP                       |                      |                             | 450                         |
|        | FLORIDA FLOODPLAIN MANAGERS ASSOCIATION (FEMEA) MEMBERSHIP                        |                      |                             | 180                         |
|        | FLORIDA LAKE MANAGEMENT SOCIETY (FLMS) MEMBERSHIP                                 |                      |                             | 35                          |
|        | FLORIDA STORMWATER ASSOCIATION (FSA) MEMBERSHIP                                   |                      |                             | 1,250                       |
|        | FLORIDA SURVEYING & MAPPING SOCIETY (FSMS) MEMBERSHIP                             |                      |                             | 279                         |
|        | AMERICAN SOCIETY OF FLOODPLAIN MANAGERS (ASFM) LICENSE/CERTIFICATION              |                      |                             | 100                         |
|        | AUTODESK CERTIFICATION  |                      |                             | 200                         |
|        | FLORIDA BOARD OF PROFESSIONAL ENGINEERS (FBPE) LICENSE/CERTIFICATION              |                      |                             | 100                         |
|        | FLORIDA DEPARTMENT OF AGRICULTURE & CONSUMER SERVICES (FDACHS) BUREAU OF LICENSII | NG &                 |                             | 200                         |
|        | NATIONAL SOCIETY OF PROFESSIONAL SURVEYORS (NSPS) LICENSE/CERTIFICATION           |                      |                             | 420                         |
|        | UNITED STATES COAST GUARD LICENSES/CERTIFICATIONS                                 |                      |                             | 0                           |
|        | ADDITIONAL MEMBERSHIPS, LICENSES & CERTIFICATIONS                                 |                      |                             | 250                         |
|        | BOOKS, PUBLISHINGS & EDUCATIONAL  |                      |                             | 250                         |
|        | OPERATING EXPENDITURES  | 633,488              | 655,591                     | 871,047                     |



2% 47% 178,051 4,133,059

|             |   | 2018 Revised<br>Budget | 2018<br>Projected | 2019<br>Requested |
|-------------|---|------------------------|-------------------|-------------------|
|             |   |                        | Amount            | Amount            |
| 063000 5500 | 1 CONTROL STRUCTURE REPLACEMENT                       | 234,000                | 226,638           | 740,000           |
|             | STRUCTURE REPAIRS                                     |                        | 10,000            | 20,000            |
|             | W-1   |                        | 216,638           | 0                 |
|             | L-4 (Royal Palm Pkwy)                                 |                        | 0                 | 720,000           |
| 063000 5523 | CANAL PIPE & SEAWALL REPLACEME                        | 50,000                 | 50,000            | 75,000            |
|             | Canal End Seawalls                                    |                        | 0                 | 65,000            |
|             | Fleming Ct @ Florance Ct                              |                        | 35,000            | 0                 |
|             | Pipes thru Seawalls                                   |                        | 15,000            | 10,000            |
| 063000 5523 | 2 MAJOR CANAL CROSSING                                | 96,000                 | 80,053            | 2,365,000         |
|             | Major Crossings - W-1                                 |                        | 80,053            | 950,000           |
|             | BELLE TERRE BLVD PIPELINING                           |                        | 0                 | 150,000           |
|             | EMERGENCY PIPELINING                                  |                        | 0                 | 275,000           |
|             | WALKER WATERWAY @ PINE LAKES PKWY (clean/inspect/line |                        | 0                 | 75,000            |
|             | M-2 (OKR @ Big Mulberry Creek)                        |                        | 0                 | 750,000           |
|             | ACMP Sesame Blvd @ Seminole Waterway                  |                        | 0                 | 150,000           |
|             | DOT CROSSING INSPECTIONS                              |                        | 0                 | 15,000            |
| 063000 8102 | 7 CONTROL STRUCTURE - SJRWMD - WEIR GRANT             | 700,000                | 700,000           | 0                 |
|             | L-1 WEIR  |                        | 350,000           | 0                 |
|             | K-1 WEIR  |                        | 350,000           | 0                 |
|             | CME CAPITAL EXPENDITURES                              | 1,100,000              | 1,056,691         | 3,180,000         |
| 091501      | TRANSFER TO FLEET FUND                                | 0                      | 0                 | 27,000            |
|             | FRONTIER 4X4 FOR NEW PROJECT COORDINATOR POSITION     |                        | 0                 | 27,000            |
| 91525       | TRANSFER TO IT FUND                                   | 0                      | 0                 | 0                 |
|             | OTHER   | 0                      | 0                 | 27,000            |
|             |   |                        |                   |                   |



2% 47% 178,051 4,133,059

|                |                                      | 2018 Revised<br>Budget | 2018<br>Projected<br>Amount | 2019<br>Requested<br>Amount |
|----------------|--------------------------------------|------------------------|-----------------------------|-----------------------------|
| 54205511 STORM | WATER MAINTENANCE                    | 3,509,629              | 3,712,563                   | 4,751,301                   |
| 012000         | SALARIES AND WAGES                   | 254,468                | 230,000                     | 87,860                      |
|                | Existing Salaries & Wages            |                        | 230,000                     | 118,075                     |
| 0              | Move 50% of PW Manager to Fleet Fund |                        | 0                           | (30,215)                    |
| 012010         | CAR/CELL ALLOWANCE                   | 2,990                  | 2,990                       | 1,565                       |
| 014000         | OVERTIME                             | 10,000                 | 5,000                       | 0                           |
| 014999         | OVERTIME - SPECIAL EVENTS            | 0                      | 0                           | 0                           |
| 021000         | FICA TAXES                           | 16,585                 | 16,585                      | 5,546                       |
| 021100         | MEDICARE                             | 3,881                  | 3,881                       | 1,298                       |
| 022000         | RETIREMENT CONTRIBUTIONS             | 31,738                 | 31,738                      | 8,731                       |
| 023000         | HEALTH INSURANCE                     | 50,400                 | 48,460                      | 14,592                      |
| 023030         | LIFE INSURANCE                       | 1,189                  | 1,633                       | 332                         |
| 023035         | DISABILITY                           | 1,178                  | 1,178                       | 328                         |
| 024000         | WORKERS COMPENSATION                 | 18,104                 | 18,104                      | 4,211                       |
| 025000         | STATE UNEMPLOYMENT COMP              | 0                      | 0                           | 0                           |
|                | Non-Project Staff                    | 390,533                | 359,569                     | 124,463                     |
| 012000 55003   | SALARIES AND WAGES                   | 222,411                | 222,411                     | 228,017                     |
| 012010 55003   | CAR/CELL ALLOWANCE                   | 1,040                  | 1,040                       | 1,240                       |
| 014000 55003   | OVERTIME                             | 5,000                  | 5,000                       | 5,000                       |
| 021000 55003   | FICA TAXES                           | 14,167                 | 14,167                      | 14,527                      |
| 021100 55003   | MEDICARE                             | 3,316                  | 3,316                       | 3,402                       |
| 022000 55003   | RETIREMENT CONTRIBUTIONS             | 27,294                 | 27,294                      | 27,966                      |
| 023000 55003   | HEALTH INSURANCE                     | 60,480                 | 58,386                      | 58,368                      |
| 023030 55003   | LIFE INSURANCE                       | 1,024                  | 1,024                       | 1,063                       |
| 023035 55003   | DISABILITY                           | 1,015                  | 1,015                       | 1,051                       |
| 024000 55003   | WORKERS COMPENSATION                 | 18,986                 | 18,986                      | 15,240                      |
| 025000 55003   | STATE UNEMPLOYMENT COMP              | 0                      | 0                           | 0                           |
|                | Pipe Crew                            | 354,733                | 352,639                     | 355,874                     |
| 012000 55105   | SALARIES AND WAGES                   | 595,940                | 595,940                     | 670,014                     |
|                | EXISTING SALARIES & WAGES            |                        | 595,940                     | 613,859                     |
|                | NEW MW / EO FULLY BURDENED           |                        | 0                           | 56,155                      |
| 012010 55105   | CAR/CELL ALLOWANCE                   | 1,840                  | 1,840                       | 1,240                       |
| 014000 55105   | OVERTIME                             | 4,000                  | 15,000                      | 5,000                       |
| 021000 55105   | FICA TAXES                           | 37,319                 | 37,319                      | 38,457                      |
| 021100 55105   | MEDICARE                             | 8,732                  | 8,732                       | 8,998                       |
| 022000 55105   | RETIREMENT CONTRIBUTIONS             | 72,004                 | 72,004                      | 72,626                      |
| 023000 55105   | HEALTH INSURANCE                     | 161,280                | 155,530                     | 155,648                     |



2% 47% 178,051 4,133,059

|        |       |  | 2018 Revised<br>Budget | 2018<br>Projected<br>Amount | 2019<br>Requested<br>Amount |
|--------|-------|--|------------------------|-----------------------------|-----------------------------|
| 023030 | 55105 | LIFE INSURANCE                                 | 2,699                  | 2,699                       | 2,761                       |
| 023035 | 55105 | DISABILITY                                     | 2,675                  | 2,675                       | 2,733                       |
| 024000 | 55105 | WORKERS COMPENSATION                           | 50,089                 | 50,089                      | 39,572                      |
| 025000 | 55105 | STATE UNEMPLOYMENT COMP                        | 0                      | 0                           | 0                           |
|        |       | Stormwater System R&R Crews                    | 936,578                | 941,828                     | 997,049                     |
|        |       | TOTAL PERSONAL SERVICES STORMWATER MAINTENANCE | 1,681,844              | 1,654,036                   | 1,477,386                   |



2% 47% 178,051 4,133,059

|              |   | 2018 Revised<br>Budget | 2018<br>Projected<br>Amount | 2019<br>Requested<br>Amount |
|--------------|---|------------------------|-----------------------------|-----------------------------|
| 034000 55003 | OCS - STORMWATER MAINT  | 62,500                 | 62,500                      | 62,500                      |
|              | Inmate crew   |                        | 62,500                      | 62,500                      |
| 034000 55105 | SYSTEM REHAB & RENEWAL  | 1,050,000              | 590,000                     | 1,200,000                   |
|              | DITCH MAINTENANCE   |                        | 0                           | 450,000                     |
|              | DESIGN MASTER PLANNING SERVICES                                     |                        | 90,000                      | 0                           |
|              | SWALE MAINTENANCE   |                        | 450,000                     | 400,000                     |
|              | DITCH SPRAY PROGRAM (PERSONNEL, EQUIPMENT, OE) NEED TO UPDATE LATER |                        | 0                           | 300,000                     |
|              | Northside London Waterway storage detention                         |                        | 0                           | 0                           |
|              | DRIVEWAY REPLACEMENTS   |                        | 50,000                      | 50,000                      |
| 040000       | TRAVEL & EXTERNAL TRAINING  | 2,500                  | 2,500                       | 2,500                       |
| 040040       | EMPLOYEE IN HOUSE TRAINING  | 0                      | 0                           | 0                           |
| 043000       | ELECTRICITY   | 9,785                  | 9,785                       | 9,785                       |
| 052000       | OPERATING SUPP&EQUIPUNDER\$5K                                       | 1,000                  | 4,000                       | 8,000                       |
|              | Boot Stipends - Stormwater Operations (Non Project Employees)       |                        | 1,000                       | 1,000                       |
|              | Uniforms (all staff)  |                        | 3,000                       | 7,000                       |
| 052000 55003 | OPERATING SUPP&EQUIPUNDER\$5K                                       | 1,500                  | 1,500                       | 1,500                       |
|              | BOOT STIPEND FOR PIPE CREW  |                        | 1,500                       | 1,500                       |
| 052000 55105 | OPERATING SUPP&EQUIPUNDER\$5K                                       | 2,500                  | 2,500                       | 2,500                       |
|              | Boot Stipends for Stormwater Rehab and Renewal Crews                |                        | 2,500                       | 2,500                       |
| 052005       | FUEL CHARGE   | 93,000                 | 130,000                     | 145,000                     |
|              | Stormwater Operation Fuel Charges                                   |                        | 130,000                     | 145,000                     |
|              | OPERATING EXPENDITUR  | 1,222,785              | 802,785                     | 1,431,785                   |
| 091501       | TRANSFER TO FLEET MANAGEMENT  | 0                      | 0                           | 697,130                     |
|              | Bobcat E55 Excavator (ditch maintenance)                            |                        |                             | 63,165                      |
|              | Bobcat E85 Excavator (ditch maintenance)                            |                        |                             | 86,535                      |
|              | Bobcat off road UTV (ditch maintenance)                             |                        |                             | 20,280                      |
|              | Chipper Truck (ditch maintenance)                                   |                        |                             | 78,425                      |
|              | MenziMuck M340 amphibious excavator (ditch maintenance)             |                        |                             | 389,525                     |
|              | F350/With Utility Body And Crane (Vac Truck Support Vehicle)        |                        |                             | 59,200                      |
|              | INTERFUND TRANSFER  | 0                      | 0                           | 697,130                     |
| 063000 55003 | IMPR - ALL PIPE REPLACEMENTS  | 530,000                | 1,180,742                   | 1,145,000                   |
|              | PIPE REPLACEMENT & VALLEY GUTTERS                                   |                        | 500,000                     | 720,000                     |
|              | PIPE LINING   |                        | 105,742                     | 250,000                     |
|              | CONCRETE LINED DITCH (F-SECTION)                                    |                        | 0                           | 50,000                      |
|              | EMERGENCY PIPE REPLACEMENTS   |                        | 575,000                     | 125,000                     |
| 063000 55205 | IMPR - VALLEY GUTTER  | 75,000                 | 75,000                      | 0                           |
|              | CAPITAL EXPENDITURES  | 605,000                | 1,255,742                   | 1,145,000                   |



2% 47% 178,051 4,133,059

|          |  | 2018 Revised<br>Budget | 2018<br>Projected<br>Amount | 2019<br>Requested<br>Amount |
|----------|--|------------------------|-----------------------------|-----------------------------|
| 54209099 | STORMWATER NON-DEPARTMENTAL  | 3,508,429              | 3,504,752                   | 3,102,820                   |
| 041100   | IT&C ALLOCATION  | 118,134                | 118,134                     | 112,770                     |
| 044100   | FLEET REPLACEMENT ALLOCATION   | 405,609                | 405,609                     | 434,043                     |
|          | Fleet Lease - CME/Stormwater staff   |                        | 10,777                      | 14,945                      |
|          | Fleet Lease - PW/Stormwater staff  |                        | 394,832                     | 419,098                     |
| 045001   | PROPERTY INSURANCE   | 55,569                 | 55,569                      | 50,773                      |
| 045002   | LIABILITY INSURANCE  | 58,826                 | 58,826                      | 58,987                      |
| 045003   | AUTOMOBILE INSURANCE   | 13,768                 | 13,768                      | 10,925                      |
| 046100   | FLEET MAINTENANCE ALLOCATION   | 321,369                | 321,369                     | 281,665                     |
|          | Fleet Maintenance Allocation - PW/Stormwater staff   |                        | 312,287                     | 272,680                     |
|          | Fleet Maintenance Allocation - CME/Stormwater staff  |                        | 9,082                       | 8,985                       |
| 046102   | FLEET COMMUNICATIONS ALLOCATIO   | 17,840                 | 17,840                      | 25,500                      |
| 049000   | OTHER CHARGES AND OBLIGATIONS  | 1,052,555              | 1,053,878                   | 638,866                     |
|          | Charge for STORMWATER BILLING (.10 x 426,278 bills per year)                                     |                        | 41,727                      | 42,628                      |
|          | GF ADMIN FEE   |                        | 240,925                     | 300,973                     |
|          | Transfer to General Fund - CME (FY 19 portion of staff changed to direct allocation to 54205509) |                        | 682,826                     | 185,322                     |
|          | FACILITIES MAINTENANCE FEE   |                        | 13,400                      | 34,943                      |
|          | Paymentus Electronic Payments  |                        | 75,000                      | 75,000                      |
|          | OPERATING EXPENDITUR   | 2,043,670              | 2,044,993                   | 1,613,529                   |
| 071000   | PRINCIPAL  | 1,123,906              | 1,123,906                   | 1,152,055                   |
|          | 93040  |                        | 243,215                     | 249,418                     |
|          | 903070   |                        | 124,691                     | 128,637                     |
|          | PNC Bank Loan  |                        | 756,000                     | 774,000                     |
|          | NEW DEBT FY 20   |                        | 0                           | 0                           |
| 072000   | INTEREST   | 231,002                | 231,002                     | 223,620                     |
|          | 903040   |                        | 59,955                      | 53,752                      |
|          | 903070   |                        | 57,941                      | 53,995                      |
|          | Bank Loan (PNC)  |                        | 113,106                     | 115,873                     |
|          | NEW DEBT FY 20   |                        | 0                           | 0                           |
| 073000   | OTHER DEBT SERVICE COSTS   | 5,000                  | 0                           | 0                           |
|          | DEBT   | 1,359,908              | 1,354,908                   | 1,375,675                   |
| 092001   | IN-LIEU-OF-TAX TRANSFER  | 104,851                | 104,851                     | 113,616                     |
|          | PILOT  |                        | 104,851                     | 113,616                     |
| 099091   | CONTINGENCY RESERVE  | 0                      | 0                           | 0                           |
|          | OTHER  | 104,851                | 104,851                     | 113,616                     |

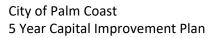


#### City of Dalm Coast Novt Voor Budget Analysis

2% (178,051)

% 47% 1) (4,133,059)

|              |                               | 2016        | 2017        | 2018        | 2018 Revised | 2018        | 2018        | 2019         |
|--------------|-------------------------------|-------------|-------------|-------------|--------------|-------------|-------------|--------------|
|              |                               |             |             |             |              |             |             |              |
|              |                               | Actual      | Actual      | Original    | Budget       | YTD         | Projected   | Requested    |
|              |                               |             |             | Budaet      |              | Actuals     | Amount      | Amount       |
| 54200000     | STORMWATER UTILITY FUND       | (7,446,204) | (7,988,141) | (8,751,546) | (8,751,546)  | (5,628,043) | (8,929,597) | (12,884,605) |
| 311000       | AD VALOREM TAXES              | (363,863)   | (418,442)   | (502,590)   | (502,590)    | (502,590)   | (502,590)   | (520,000)    |
|              | AD VALOREM TAXES              | (363,863)   | (418,442)   | (502,590)   | (502,590)    | (502,590)   | (502,590)   | (520,000)    |
| 334362 81027 | SJRWMD - WEIR GRANT           | 0           | 0           | 0           | (700,000)    | 0           | (700,000)   | 0            |
| 334362       | SJRWMD - GRANT - WEIR         | 0           | (334,000)   | (700,000)   | 0            | 0           | 0           | 0            |
|              | GRANTS                        | 0           | (334,000)   | (700,000)   | (700,000)    | 0           | (700,000)   | 0            |
| 343920       | STORMWATER FEES               | (7,038,305) | (7,228,209) | (7,270,000) | (7,270,000)  | (5,090,903) | (7,265,627) | (9,764,805)  |
|              | Stormwater fee                |             |             |             |              |             | (7,265,627) | (9,764,805)  |
|              | PHYSICAL ENVIRONMENT          | (7,038,305) | (7,228,209) | (7,270,000) | (7,270,000)  | (5,090,903) | (7,265,627) | (9,764,805)  |
| 361100       | INTEREST EARNINGS             | (4,524)     | (6,657)     | 0           | 0            | (34,550)    | 0           | 0            |
|              | INTEREST AND OTHER E          | (4,524)     | (6,657)     | 0           | 0            | (34,550)    | 0           | 0            |
| 363215       | DEVELOPER CONTRIB             | (37,828)    | 0           | 0           | 0            | 0           | 0           | 0            |
|              | SPEC ASSESS/IMPACT            | (37,828)    | 0           | 0           | 0            | 0           | 0           | 0            |
| 384102       | PROCEEDS FROM DEBT            | 0           | 0           | 0           | 0            | 0           | 0           | (2,460,000)  |
|              | DEBT                          | 0           | 0           | 0           | 0            | 0           | 0           | (2,460,000)  |
| 380100       | APPROPRIATED FUND BALANCE     | 0           | 0           | (278,956)   | (278,956)    | 0           | (261,380)   | (139,800)    |
|              | EQUITY ACCOUNTS               | 0           | 0           | (278,956)   | (278,956)    | 0           | (261,380)   | (139,800)    |
| 389451       | GRANTS AND DONATIONS-PCCSC    | (1,684)     | (832)       | 0           | 0            | 0           | 0           | 0            |
|              | NONOPERATING SOURCES          | (1,684)     | (832)       | 0           | 0            | 0           | 0           | 0            |
| 381000       | TRANSFER FROM GENERAL FUND NO | 0           | 0           | 0           | 0            | 0           | (200,000)   | 0            |
|              | INTERFUND TRANSFER            | 0           | 0           | 0           | 0            | 0           | (200,000)   | 0            |





| STORMWATER MANAGEMENT FUND                        | FY19 Origina   | ll <mark>FY 19 Amended</mark> | FY 20      | FY 21      | FY 22      | FY 23      |
|---|----------------|-------------------------------|------------|------------|------------|------------|
| Starting Fund Balance                             | 294,361        | 294,361                       | 154,764    | 221,214    | 829,186    | 1,229,457  |
| Revenues:   |                |                               |            |            |            |            |
| Ad Valorem Taxes                                  | 520,000        | 520,000                       | 521,560    | 523,125    | 524,694    | 526,268    |
| Stormwater Fees                                   | 7,287,423      | 9,765,008                     | 10,810,156 | 11,899,595 | 12,995,325 | 14,097,344 |
| New Debt  | -              | 2,460,000                     | 1,350,000  | 6,410,000  | 6,000,000  | 4,900,000  |
| Total Revenues                                    | 7,807,423      | 12,745,008                    | 12,681,716 | 18,832,720 | 19,520,019 | 19,523,612 |
| Total Available Funds                             | 8,101,784      | 13,039,369                    | 12,836,480 | 19,053,934 | 20,349,205 | 20,753,069 |
| Operating Expenses:                               |                |                               |            |            |            |            |
| Operating Expenditures                            | 5,538,390      | 5,744,675                     | 6,746,666  | 6,955,030  | 8,022,368  | 8,250,485  |
| - CM&E Personnel                                  | 801,284        | 958,037                       | 1,006,000  | 1,056,000  | 1,109,000  | 1,164,000  |
| - Public Works Personnel                          | 1,421,231      | 1,477,386                     | 1,551,000  | 1,628,550  | 1,709,978  | 1,795,476  |
| - Inmate Crew                                     | 62,500         | 62,500                        | 62,500     | 62,500     | 62,500     | 62,500     |
| - Other Operating Expenditures                    | 3,252,775      | 1,870,477                     | 2,110,864  | 2,195,299  | 2,283,111  | 2,374,435  |
| - Debt Service                                    |                | 1,375,675                     | 1,371,569  | 1,367,948  | 1,363,785  | 1,360,079  |
| - New Debt Service Loan 1                         | -              | -                             | 644,133    | 644,133    | 644,133    | 644,133    |
| - New Debt Service Loan 2                         | -              | -                             | -          | -          | 849,262    | 849,262    |
| - New Debt Service Loan 3                         | -              | -                             | -          | -          | -          | -          |
| - Lake Weed Control - Ribbon Lake                 | 600            | 600                           | 600        | 600        | 600        | 600        |
| Professional Services                             | 031000 331,000 | 331,000                       | 273,000    | 275,000    | 277,000    | 304,000    |
| - Stormwater Rate Study (Consultant)              | -              | -                             | -          | -          | -          | 25,000     |
| - City-Wide Infrastructure Stormwater Master Plan | 210,000        | 210,000                       | 150,000    | 150,000    | 150,000    | 150,000    |
| - Stormwater Capital Projects Design Services     | 50,000         | 50,000                        | 50,000     | 50,000     | 50,000     | 50,000     |
| - MS4 Permitting Program                          | 71,000         | 71,000                        | 73,000     | 75,000     | 77,000     | 79,000     |

#### City of Palm Coast 5 Year Capital Improvement Plan

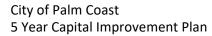


| STORMWATER MANAGEMENT FUND   | F      | Y19 Original | FY 19 Amended | FY 20   | FY 21     | FY 22     | FY 23     |
|--|--------|--------------|---------------|---------|-----------|-----------|-----------|
| Contractual Services   | 034000 | 587,600      | 520,600       | 555,000 | 583,000   | 587,000   | 591,000   |
| - Annual Telemetry Subscription - SCADA                                |        | 6,600        | 6,600         | 10,000  | 11,000    | 12,000    | 13,000    |
| - Mission Communication Unit Upgrades                                  |        | 1,000        | -             | -       | -         | -         | -         |
| - Water Control Equipment Replacement                                  |        | 30,000       | 31,000        | 36,000  | 37,000    | 38,000    | 39,000    |
| - Pump Station Maintenance & Repair                                    |        | 7,000        | 10,000        | 11,000  | 12,000    | 13,000    | 14,000    |
| <ul> <li>Water Control SCADA Support &amp; Service</li> </ul>          |        | 15,000       | 15,000        | 16,000  | 17,000    | 18,000    | 19,000    |
| - Structure Repairs  |        | 20,000       | 20,000        | 20,000  | 20,000    | 20,000    | 20,000    |
| - Freshwater Alternative Treatments                                    |        | 20,000       | 20,000        | 20,000  | 20,000    | 20,000    | 20,000    |
| - Freshwater Canal Weed Control  |        | 478,000      | 408,000       | 432,000 | 456,000   | 456,000   | 456,000   |
| <ul> <li>Canal Clearing (Removal of Trees &amp; Underbrush)</li> </ul> |        | 5,000        | 5,000         | 5,000   | 5,000     | 5,000     | 5,000     |
| - Sediment Removal   |        | 5,000        | 5,000         | 5,000   | 5,000     | 5,000     | 5,000     |
| Freshwater Canal Dredging  | 034000 | -            | -             | 275,000 | 2,775,000 | 2,775,000 | 2,775,000 |
| - Design   |        | -            | -             | 275,000 | 275,000   | 275,000   | 275,000   |
| - Construction   |        | -            | -             | -       | 2,500,000 | 2,500,000 | 2,500,000 |
| - Contingency  |        | -            | -             | -       | -         | -         | -         |
| Projects:  |        |              |               |         |           |           |           |
| Saltwater Canal System   | 55230  | 50,000       | 75,000        | 80,000  | 85,000    | 90,000    | 95,000    |
| - Pipes Thru Seawalls  |        | 15,000       | 10,000        | 10,000  | 10,000    | 10,000    | 10,000    |
| - Canal End Seawalls   |        | 35,000       | 65,000        | 70,000  | 75,000    | 80,000    | 85,000    |
| Stormwater Storage/Detention:  | TBD    |              |               |         |           |           |           |
| London Waterway Expansion - Phase I: North side                        |        | 56,594       | -             | 350,000 | 1,700,000 | -         | -         |
| - Design   |        | 56,594       | -             | 350,000 | -         | -         | -         |
| - Construction   |        | -            | -             | -       | 1,700,000 | -         | -         |
| London Waterway Expansion - Phase II: 53 Luther Dr.                    |        | -            | -             | -       | 2,050,000 | -         | -         |
| - Design   |        | -            | -             | -       | 350,000   | -         | -         |
| - Construction   |        | -            | -             | -       | 1,700,000 | -         | -         |
| Project(s) to be Determined  |        | -            | -             | -       | 400,000   | 2,400,000 | 2,450,000 |
| - Design   |        | -            | -             | -       | 400,000   | 400,000   | 450,000   |
| - Construction   |        | -            | -             | -       | -         | 2,000,000 | 2,000,000 |

#### City of Palm Coast 5 Year Capital Improvement Plan



| STORMWATER MANAGEMENT FUND                         | FY19 Original | FY 19 Amended | FY 20   | FY 21   | FY 22     | FY 23   |
|--|---------------|---------------|---------|---------|-----------|---------|
| Control Structure Replacements:                    | 55001         |               |         |         |           |         |
| L-4 Weir Replacement (Royal Palm Parkway)          | -             | 720,000       | -       | -       | -         | -       |
| - Design   | -             | 60,000        | -       | -       | -         | -       |
| - Construction                                     | -             | 660,000       | -       | -       | -         | -       |
| K-6 Weir Replacement (Smith Trail)                 | -             | -             | 900,000 | -       | -         | -       |
| - Construction                                     | -             | -             | 900,000 | -       | -         | -       |
| P-1 Weir Replacement (West BT south of Pine Grove) | -             | -             | -       | 110,000 | 1,500,000 | -       |
| - Design   | -             | -             | -       | 110,000 | -         | -       |
| - Construction                                     | -             | -             | -       | -       | 1,500,000 | -       |
| B-1, B-2, & B-3 (Pop offs for Bellaire Waterway)   | -             | -             | -       | -       | -         | 115,000 |
| - Design   | -             | -             | -       | -       | -         | 15,000  |
| - Construction                                     | -             | -             | -       | -       | -         | 100,000 |
| Major Pipe & Canal Crossings (Replacements):       | 55232         |               |         |         |           |         |
| W-1 (Belle Terre @ BTMS)                           | -             | 950,000       | -       | _       | _         | _       |
| - Design   | _             | 15,000        | _       | _       | _         | _       |
| - Construction                                     | -             | 935,000       | _       | _       | _         | _       |
| M-2 (OKR @ Big Mulberry Creek)                     | -             | 750,000       | -       | -       | _         | _       |
| - Design   | -             | 35,000        | _       | _       | _         | _       |
| - Construction                                     | -             | 715,000       | _       | _       | _         | _       |
| Pipe Inspections & Lining                          | 313,200       | 665,000       | 510,000 | 400,000 | 355,000   | 750,000 |
| - FDOT Bridge Inspection Program (22 Culverts)     | 13,200        | 15,000        | 15,000  | ,       | 222,222   | 100,000 |
| - Sesame @ Seminole Waterway Extension & Lining    | 150,000       | 150,000       | ,<br>-  | -       | _         | -       |
| - W-2 'Walker Waterway @ Pine Lakes Pkwy           | -             | 75,000        | -       | -       | _         | -       |
| - Belle Terre Blvd (south of Citation)             | -             | 150,000       | -       | -       | -         | -       |
| - Crandal Cove                                     | -             | -             | 150,000 | -       | _         | -       |
| - Florida Park North (No of Foster Ln)             | -             | -             | 45,000  | -       | _         | -       |
| - K-2 (7 Oaks Waterway at Sesame Blvd)             | -             | -             | ,<br>-  | 100,000 | _         | -       |
| - K-4 (7 Oaks Waterway at Seminole Woods)          | -             | -             | -       | -       | 55,000    | -       |
| - I-2 (Iroquois Waterway Seminole Woods)           | -             | -             | -       | -       | -         | 400,000 |
| - PA-1 (Belle Terre @ Parkview Waterway)           | -             | -             | -       | -       | -         | -       |
| - Contingency (Emergency Linings)                  | 150,000       | 275,000       | 300,000 | 300,000 | 300,000   | 350,000 |
| Projects to be Determined                          | -             | ´-            | 160,000 | 460,000 | 470,000   | 660,000 |
|  |               |               |         |         |           |         |
| Capacity Improvements:                             |               |               |         |         |           |         |
| Drainage Improvement Projects (TBD)                | TBD -         | -             | 275,000 | 300,000 | 400,000   | 750,000 |





| STORMWATER MANAGEMENT FUND                                    | FY19 Original | FY 19 Amended | FY 20      | FY 21      | FY 22      | FY 23      |
|---|---------------|---------------|------------|------------|------------|------------|
| Pipe Replacements:  | 55003         |               |            |            |            |            |
| Pipe Replacements & Valley Gutters                            | 450,000       | 720,000       | 750,000    | 780,000    | 810,000    | 840,000    |
| Pipe Linings  | 100,000       | 250,000       | 285,000    | 295,000    | 360,000    | 405,000    |
| Concrete Lined Ditch (F-section)                              | -             | 50,000        | 450,000    | -          | -          | -          |
| - Design  | -             | 50,000        | -          | -          | -          | -          |
| - Construction  | -             | -             | 450,000    | -          | -          | -          |
| Emergency Pipe Replacements                                   | -             | 125,000       | 125,000    | 130,000    | 135,000    | 140,000    |
| System Maintenance Rehab & Renewal:                           | 55105         |               |            |            |            |            |
| Swale Maintenance Rehab & Renewal                             | 275,000       | 450,000       | 450,000    | 485,000    | 510,000    | 535,000    |
| - Swale Maintenance and Rehab.                                | 250,000       | 400,000       | 425,000    | 475,000    | 500,000    | 525,000    |
| - Driveway Replacements                                       | 25,000        | 50,000        | 25,000     | 10,000     | 10,000     | 10,000     |
| Ditch Maintenance and Rehab.                                  | 400,000       | 450,000       | 200,000    | 200,000    | 175,000    | 125,000    |
| - Ditch Maintenance and Rehab.                                | 400,000       | 450,000       | 200,000    | 200,000    | 175,000    | 125,000    |
| Ditch Spray Program   | -             | 300,000       | 230,600    | 241,718    | 253,380    | 265,611    |
| - Spray Equipment (Purchase FY19)                             | -             | 80,000        | -          | -          | -          | -          |
| <ul> <li>Spray Staffing and/or Contractor</li> </ul>          | -             | 200,000       | 210,000    | 220,500    | 231,525    | 243,101    |
| - Spraying Chemicals  | -             | 20,000        | 20,600     | 21,218     | 21,855     | 22,510     |
| New Equipment   | -             | 783,330       | -          | -          | -          | -          |
| - Ditch Maintenance Equipment                                 | -             | 697,130       | -          | -          | -          | -          |
| <ul> <li>CM&amp;E Personnel (New Proposed Vehicle)</li> </ul> | -             | 27,000        | -          | -          | -          | -          |
| - Public Works Personnel (Proposed Vehicle)                   | -             | 59,200        | -          | -          | -          | -          |
| TOTAL EXPENDITURES  | 8,101,784     | 12,884,605    | 12,615,266 | 18,224,748 | 19,119,748 | 19,051,096 |
|   |               |               |            |            |            |            |
| Available Funds End of Year                                   |               | 154,764       | 221,214    | 829,186    | 1,229,457  | 1,701,973  |
|   |               |               |            |            |            |            |