

**City of South Daytona**  
**Community Development Department**

Post Office Box 214960 • South Daytona, FL 32121 • 986/322-3020 • Fax 386/322/3029



**MEMORANDUM**

To: James L. Gillis, Jr., City Manager  
From: Patty Rippey, Redevelopment Director *PR*  
Date: July 9, 2020  
Re: Resolution 2020-24 Adoption of Updated Volusia County Multi-Jurisdictional Local Hazard Mitigation Strategy Plan

**AGENDA ITEM**

# C 15 DATE 7/28/2020

**Introduction:**

This is a resolution for the City Council's adoption of the Updated Volusia County Multi-Jurisdictional Local Hazard Mitigation Strategy Plan. The adoption of this plan is a requirement of the Community Rating System (CRS) program.

**Background Information:**

To reduce the Nation's mounting natural disaster losses, the U.S. Congress passed the Disaster Mitigation Act of 2000 (DMA 2000) to amend the Robert T. Stafford Disaster Relief and Emergency Assistance Act. Section 322 of DMA 2000 emphasizes the need for state and local government entities to closely coordinate on mitigation planning activities and makes the development of a hazard mitigation plan a specific eligibility requirement for any local government applying for federal mitigation grant funds. Communities with an adopted and federally approved hazard mitigation plan thereby become prepositioned and are more apt to receive available mitigation funds before and after the next disaster strikes.

The updated Plan was prepared by the East Central Florida Regional Planning Council with assistance from Volusia County Emergency Management Staff during 2019. The Volusia County Council adopted the Plan on April 14, 2020. The Plan is intended to assist participating jurisdictions to comply with state and federal requirements to expedite the response and recovery process. In addition, compliance is often required to obtain state and federal funding for pre-disaster mitigation projects and post-disaster situations. This Plan allows participating jurisdictions to quickly assemble the necessary grant application materials when seeking funding.

The document is 550 pages in length and may be accessed for review at the following link: <http://ftp.ecfrpc.org/lms/>. Excerpts of the plan including South Daytona's goals, objectives and initiatives are included with this transmittal.

**Budget Impact:**

There is no budget impact to the City of South Daytona.

**Citizen Impact:**

The City of South Daytona participates in the Federal Emergency Management Agency, National Flood Insurance Program, Community Rating System (CRS) and is currently rated a class 6, which provides a 20 percent flood insurance discount to policy holders in a special flood hazard area. The City receives points towards its annual rating by participating in the Local Mitigation Strategy (LMS) working group in the development of the Multi-Jurisdictional Local Mitigation Strategy Plan. The City's participation in the LMS solidified the current rating and 20 percent flood insurance discount to its residents.

**Recommendation:**

To approve the updated Volusia County Multi-Jurisdictional Local Mitigation Strategy Plan to maintain the current rating in the CRS program, provide eligibility and prepositioned access to mitigation grant funds and further efforts in reducing vulnerabilities to flood events for the overall good and welfare of the community.

**Attachments:**

1. Attachment "A" – Volusia County Multi-Jurisdictional Local Mitigation Strategy Plan Section 9: Mitigation Action Plan
2. Attachment "B" – South Daytona Floodplain Management Goals, Objectives, and Initiatives.

**RESOLUTION NO. 2020-24**

**A RESOLUTION BY THE CITY COUNCIL OF THE  
CITY OF SOUTH DAYTONA, FLORIDA  
AUTHORIZING THE ADOPTION OF THE UPDATED  
VOLUSIA COUNTY MULTI-JURISDICTIONAL  
LOCAL HAZARD MITIGATION STRATEGY PLAN;  
PROVIDING FOR CONFLICTING RESOLUTIONS;  
PROVIDING FOR SEVERABILITY; AND  
PROVIDING AN EFFECTIVE DATE.**

**WHEREAS**, areas of the City of South Daytona are vulnerable to the human and economic costs of natural, technological, and societal disasters; and

**WHEREAS**, the City of South Daytona governing body realizes the importance of reducing or eliminating those vulnerabilities for the overall good and welfare of the community; and

**WHEREAS**, the City of South Daytona has been an active participant in Volusia Prepares, the Local Mitigation Strategy working group, which has established a comprehensive, coordinated planning process involving the county and its municipalities, as well as other public and private sector organizations, to eliminate or decrease these vulnerabilities; and

**WHEREAS**, the City's professional staff have identified, justified, and prioritized a number of proposed projects and programs needed to mitigate the vulnerabilities of areas of South Daytona to impacts of future disasters; and

**WHEREAS**, these proposed projects and programs have been incorporated into the current edition of the Volusia County Multi-Jurisdiction Local Mitigation Strategy Plan that has been prepared and issued for consideration and adoption by the communities and jurisdictions of Volusia County; and

**WHEREAS**, a copy of the Mitigation Action Plan and South Daytona's goals, objectives and initiatives have been attached hereto as Attachment "A" and "B" and incorporated herein by reference; and

**WHEREAS**, the formal adoption of the Plan by the local governing body is a requirement of the Community Rating System Program.

**NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF SOUTH DAYTONA, VOLUSIA COUNTY, FLORIDA:**

**Section 1. Description of Actions.**

1. The City Council approves of its designated portion of the Volusia County Multi-Jurisdictional Local Mitigation Strategy Plan.
2. The City Council endorses the mitigation goals and objectives established by Volusia Prepares for the countywide plan and the anticipated schedule for the next updating of the plan.

3. The City Council finds that the proposed flood mitigation projects and programs included in the Plan by other jurisdictions and organizations are acceptable, they will not adversely affect the City or its neighborhoods, and that they do not conflict with or duplicate the flood mitigation proposals made by the City itself.
4. Relevant City staff are requested and instructed to pursue available funding opportunities for implementation of the proposals designated therein.
5. The agencies and organizations within the City of South Daytona, upon receipt of such funding or other necessary resources, seek to implement the proposals contained in the City's individual section of the Plan.
6. The City Council will continue to participate in the updating and expansion of the Volusia County Integrated Floodplain Management Plan in the years ahead.
7. The City Council will further seek to encourage the businesses, industries and community groups operating in South Daytona to also participate in the updating and expansion of the Volusia Integrated Floodplain Management Plan in the years ahead.

**Section 2. Repealer.** All prior resolutions, if any, which conflict with this resolution are hereby repealed.

**Section 3. Severability.** If any section, subsection, sentence, clause, phrase or portion of this resolution, or application hereof, is for any reason held invalid or unconstitutional by any Court, such portion or application shall be deemed a separate, distinct, and independent provision, and such holding shall not affect the validity of the remaining portions or application hereof.

**Section 4. Effective Date.** This resolution shall become effective immediately upon its adoption

APPROVED AND ADOPTED upon first and final reading at the regular meeting by the City Council of the City of South Daytona, Florida on the \_\_\_ day of \_\_\_\_\_, 2020.

SIGNED:

\_\_\_\_\_  
William C. Hall, Mayor

ATTEST:

\_\_\_\_\_  
James L. Gillis, Jr.  
City Manager

CERTIFIED AS TO FORM:

\_\_\_\_\_  
Scott Simpson  
City Attorney

**ATTACHMENT "A"**  
**VOLUSIA COUNTY MULTI-JURISDICTIONAL**  
**LOCAL MITIGATION STRATEGY PLAN**  
**SECTION 9 – MITIGATION ACTION PLAN**

## SECTION 9 – MITIGATION ACTION PLAN

### 44 CFR Requirement

**44 CFR Part 201.6(c)(3)(iii):** The mitigation strategy shall include an action plan describing how the actions identified in paragraph (c)(2)(ii) of this section will be prioritized, implemented, and administered by the local jurisdiction.

This section includes the listing of the mitigation actions proposed by Volusia County and its participating jurisdictions and partners. It has been designed to achieve the mitigation goals and objectives established in Section 8: Mitigation Strategy, and will be maintained on a regular basis according to the plan maintenance procedures established in Section 10: Plan Maintenance Procedures.

As described in the previous section, the Mitigation Action Plan, or MAP, represents an unambiguous and functional plan for action. Each proposed mitigation action has been identified as an effective measure (policy or project) to reduce hazard vulnerability for Volusia County.

Most importantly, implementation mechanisms are provided for each action, including the designation of a lead agency or department responsible for implementing the action. Specific information regarding project cost and timeframe for its completion are on file with Volusia County Emergency Management. These implementation mechanisms ensure that Volusia County Local Mitigation Strategy remains a functional document that can be monitored for progress over time.

The LMS “Volusia Prepares” working group did not alter the priority ranking system since the 2015 plan update. Future consideration will be given to the potential impacts of sea level rise and storm surge, but those amendments have not been finalized. Initial conversation on updating the priority ranking system occurred on February 9<sup>th</sup>, 2020 at the FDEP Volusia County Project Meeting (previously referred to in this report).

**Table 9.1** describes the key elements of the Mitigation Action Plan.

## SECTION 9: MITIGATION ACTION PLAN

**Table 9.1: Key Elements of the Mitigation Action Plan**

<b>Priority</b>	Indicates whether the action is a “low” priority, “moderate” priority or “high” priority based on the established prioritization criteria: Low = <10; Moderate = 11-24; High = 25+
<b>Jurisdiction</b>	Identifies the geographic location where the initiative is located.
<b>Responsible Organization</b>	Identifies the local agency, department or organization that is best suited to implement the proposed action, project or initiative.
<b>Hazard(s)</b>	Lists the hazard(s) the proposed action is designed to mitigate against.
<b>Mitigation Technique Category</b>	Indicates the mitigation technique that the proposed action is designed to help achieve. Categories include: E = Emergency Services; P = Prevention; PE = Public Education; PP = Property Protection; S = Structural
<b>Initiative</b>	Identifies a specific action that, if accomplished, will reduce vulnerability and risk in the impact area. Actions may be in the form of local policies (i.e., regulatory or incentive-based measures), programs or structural mitigation projects and should be consistent with any pre-identified mitigation goals and objectives. An identification number is provided. The county has additional information on file for each initiative (e.g., location, damage history, specific mitigation measure, estimated cost, etc.)
<b>Funding</b>	If applicable, indicates how the cost to complete the action will be funded. For example, funds may be provided from existing operating budgets or general funds, a previously established contingency fund, a cost-sharing federal or state grant program, etc. The default funding source for initiatives within this listing is the Hazard Mitigation Grant Program (HMGP). Outside of the HMGP, funding sources for these projects are typically determined on the local level for “proactive” projects that do not need a disaster declaration to be funded. However, most of the projects on this listing do not have a set funding source, which defaults the project to HMGP. If identified, specific funding sources will be attributed to initiatives.
<b>Approved by LMS Working Group</b>	Identifies the date when the initiative was approved by the LMS Working Group
<b>Completion Date</b>	Indicates when the action was completed. Remember that some actions will require only a minimal amount of time, while others may require a long-term or continuous effort. Projects are “deferred” or “terminated” from list listing at the discretion of the jurisdiction that is implementing those changes. When initiatives are deferred or deleted on the jurisdictional level, countywide representatives are notified via the LMS Working Group (or Volusia Prepares) and the countywide initiative listing is updated at that time.
<b>Status</b>	<p>The status indicators for each initiative is as follows:</p> <ul style="list-style-type: none"> <li>• C = Completed</li> <li>• D = Deferred ***See notes under “Completion Date” above***</li> <li>• N = New</li> <li>• T = Terminated ***See notes under “Completion Date” above***</li> <li>• U = Updated</li> <li>• A = Active/Open</li> </ul>

## SECTION 9: MITIGATION ACTION PLAN

Each mitigation initiative has been scored by the responsible jurisdiction. The scoring system is included in Section 8: Mitigation Strategy (Table 8.1).

Prioritizing the proposed mitigation actions was based on the following 11 factors:

- ▶ Population Benefited
- ▶ Health and Safety Considerations
- ▶ Environmental Impact
- ▶ Consistency with Other Plans and Programs
- ▶ Reduces Risk of Future Property Damage
- ▶ Supports Essential or Critical Services
- ▶ Probability of Receiving Funding for Implementation
- ▶ Feasibility of Implementation
- ▶ Community Rating System
- ▶ Repetitive Loss Mitigation
- ▶ Benefit Cost Ratio (to be conducted prior to submitting a project for grant consideration)

Each mitigation initiative was scored on 10 of these 11 factors. The jurisdictions have not run an official benefit cost analysis (BCA) for the initiatives at this time. The jurisdictions did include a general BCA in the mitigation initiative application that was submitted to Volusia County Emergency Management. However, the BCA will be run for the initiatives following a disaster to factor in all known damage costs.

The mitigation initiatives are not listed in exact priority order, though each has been assigned a priority level of “low”, “moderate”, or “high”. Once the BCA is run, a numerical priority will be assigned.

All mitigation initiatives included in the Action Plan that propose to reduce flood hazard vulnerability advance the intent of the National Flood Insurance Program (NFIP), as they will meet the current local floodplain regulations adopted by the jurisdictions as required by the NFIP. Two of the scoring factors used to determine the priority of the actions specifically address the intent of the NFIP and the Community Rating System (CRS). These two factors consider whether the initiative supports elements of the CRS and reduces repetitive flood losses.

Volusia County is highly committed to reducing flood losses in support of the NFIP, and has predominantly used local funding to implement these projects. Examples of these initiatives include: acquiring and relocating repetitive loss structures, relocating critical facilities from the 100-year floodplain, floodproofing equipment at water treatment plants, performing drainage improvement projects and creating new topographic maps based on newly collected Light Detection and Ranging (LiDAR) data. Approximately half of open disaster mitigation initiatives half support flood hazard vulnerability reduction.

The open mitigation initiatives are listed in the Action Plan in **Table 9.2**. If a mitigation initiative does not have a status indicator, it is considered “open”. A live listing of mitigation projects can be found via the online link in Appendix F.

In 2019, the East Central Florida Regional Planning Council and Volusia County Emergency Management mapped the locations of all mitigation projects, by type, as part of a project with the Florida Department of Environmental Protection. These maps are available upon request.

## SECTION 9: MITIGATION ACTION PLAN

**Table 9.2: Mitigation Action Plan: Open Mitigation Initiatives by Jurisdiction (as of 10/21/2019)**

Status: C = Current

Category: P = Prevention, PP = Priority Prevention, S = Structural, ES = Emergency Services, PE = Education

Priority	Jurisdiction	Responsible Organization	Hazard(s)	Mitigation Technique Category	Initiative	Funding	Approved by LMS Working Group	Original Anticipated Completion	Status
	Ormond Beach	City Engineer	Flood	S	VOL-0452 Flooding control pump on Fleming Ave., which will discharge into the Halifax River.	HMGP	3/30/2015	1/1/2016	C
	South Daytona	Community Development	Flood	P	VOL-0453 Purchase a vacant parcel of land and install a stormwater retention pond to help recent flooding.	HMGP	10/13/2015	1/1/2016	C
	Holly Hill	Public Works	Multi	PP	VOL-0457 Hurricane Shutters and City Hall Annex	HMGP	9/11/2013	1/1/2016	C
	Deltona	Public Works	Flood		VOL-0460 Exmore Avenue Stormwater Improvements	HMGP FMA	6/13/2014	1/1/2016	C
	Deltona	Public Works	Flood		VOL-0461 Lamplighter Section Line Stormwater Improvements	HMGP FMA	6/14/2014	1/1/2016	C
	Deltona	Public Works	Flood		VOL-0463 Montebello Avenue Stormwater Improvements	HMGP FMA	6/16/2014	1/1/2016	C
	Deltona	Public Works	Flood		VOL-0464 Picasso Avenue Stormwater Improvements	HMGP FMA	6/17/2014	1/1/2016	C
	Deltona	Public Works	Flood		VOL-0465 Tune Avenue Stormwater Improvements	HMGP FMA	6/18/2014	1/1/2016	C
	Deltona	Public Works	Flood		VOL-0466 Zinnia Avenue Stormwater Improvements	HMGP FMA	6/19/2014	1/1/2016	C

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	New Smyrna Beach	Fire	Flood		VOL-0467 Isieboro subdivision storm water management	HMGP	3/11/2015	1/1/2016	C
	Ormond Beach	Engineering	Flood	P	VOL-0468 772 N Beach St convert property into a stormwater storage site to aid in the prevention of flooding.	FMA	8/14/2015	1/1/2016	C
	South Daytona	Public Works	Flood	P	VOL-0469 Construction of stormwater management system adjacent to City Hall. This will help emergency vehicles have more access to the road during minor storm events.	HMGP	8/14/2015	1/1/2016	C
33	Ormond Beach	Public Works	Flood	PP P	VOL-0472 Wilmette Avenue Stormwater Pump Station - install permanent pump station Laurel Creek	HMGP	12/14/2016	Jan-21	C
33	Ormond Beach	Public Works	All Hazard	PP ES	VOL-0473 Ormond Beach Lift Station backup - purchase 4 pumps	HMGP	12/14/2016	Jan-21	C
21	Holly Hill	Public Works	Flood	PP	VOL-0474 Cordova Drainage Basin Improvements Phase I	HMGP	12/14/2016	Jan-21	C
40	FL Hospital	EM Coordinator	All Hazard	PP ES	VOL-0475 Emergency power upgrade for hospital critical infrastructure sustainability during power outages at FL Hospital Memorial Medical Center	HMGP	12/14/2016	Jan-21	C
40	FL Hospital	EM Coordinator	All Hazard	ES	VOL-0476 Emergency power upgrade for hospital critical infrastructure sustainability during power outages at FL Hospital Oceanside	HMGP	12/14/2016	Jan-21	C

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Priority	Jurisdiction	Responsible Organization	Hazard(s)	Mitigation Technique Category	Initiative	Funding	Approved by LMS Working Group	Original Anticipated Completion	Status
23	FL Hospital NSB	EM Coordinator	Wind	P PP S ES	VOL-0477 The entire hospital roof replacement to bring it up to Miami Dade Wind Code	HMGP	12/14/2016	Jan-21	C
23	FL Hospital NSB	EM Coordinator	Wind	P PP S ES	VOL-0478 Building sealing and wet glazing windows (GP_2) to mitigate the loss of any future hospital services and bring facility to Miami Dade Code	HMGP	12/14/2016	Jan-21	C
23	FL Hospital NSB	EM Coordinator	Wind	P PP S ES	VOL-0479 Electrical infrastructure for Chiller and Life Safety redundancy	HMGP	12/14/2016	Jan-21	C
38	Port Orange	Public Works	Flood	P PP S	VOL-0480 White Place and Riverside Drive drainage improvements	HMGP	12/14/2016	Jan-21	C
32	Port Orange	Public Works	Flood	P PP S	VOL-0481 Tumblebrook Drive (Sweetwater Hills) stormwater improvements (201409)	HMGP	12/14/2016	Jan-21	C
34	Port Orange	Public Works	Flood	P PP S	VOL-0482 Southwinds Stormwater Pond Outfall Retrofit (201441)	HMGP	12/14/2016	Jan-21	C
38	Port Orange	Public Works	Flood	P PP S	VOL-0483 Pipe replacement (201647) replace pipe with reinforced concrete pipe to improve stormwater conveyance to reduce potential for flooding	HMGP	12/14/2016	Jan-21	C
39	Port Orange	Public Works	Flood	P PP S	VOL-0484 Storm drain pipe lining (180202)	HMGP	12/14/2016	Jan-21	C

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Priority	Jurisdiction	Responsible Organization	Hazard(s)	Mitigation Technique Category	Initiative	Funding	Approved by LMS Working Group	Original Anticipated Completion	Status
24	Edgewater	Public Works	Flood Surge Wind	P PP S NS	VOL-485 - Generators for City of Edgewater lift stations (4)	HMGP	12/14/2016	Jan-21	C
23	Edgewater	Public Works	All Hazard	NS ES	VOL-0486 Portable Generators - Traffic Signals (7)	HMGP	12/14/2016	Jan-21	C
22	Edgewater	Public Works	All Hazard	NS ES	VOL-0487 - Edgewater Code House generator	HMGP	12/14/2016	Jan-21	C
22	Edgewater	Public Works	Wind	PP	VOL-0488 Impact windows for YMCA facility - critical facility for shelter	HMGP	12/14/2016	Jan-21	C
22	Edgewater	Public Works	Wind	PP	VOL-0489 - Impact windows for City of Edgewater Wastewater Administration Building	HMGP	12/14/2016	Jan-21	C
22	Edgewater	Public Works	Wind	PP	VOL-0490 - Impact windows for City of Edgewater Parks & Recreation Office Building	HMGP	12/14/2016	Jan-21	C
22	Edgewater	Public Works	Wind	PP	VOL-0491 - Impact windows City of Edgewater Fire Station #57	HMGP	12/14/2016	Jan-21	C
22	Edgewater	Public Works	Wind	PP	VOL-0492 Impact windows for City of Edgewater Fire Hall - houses emergency personnel during a disaster event	HMGP	12/14/2016	Jan-21	C
22	Edgewater	Public Works	Wind	PP	VOL-0493 Impact windows Code House - houses emergency personnel during a disaster event	HMGP	12/14/2016	Jan-21	C

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22	Edgewater	Public Works	Wind	PP	VOL-0494-Revised Harden Edgewater Wasterwater Treatment Plant 500 W. Ocean Avenue, Edgewater with safe harbor room	HMGP	12/14/2016	Jan-21	C
22	Edgewater	Public Works	Wind	PP	VOL-0495 Harden Edgewater Wasterwater Treatment Plant/EOC, 3315 SR 442, Edgewater with safe harbor room	HMGP	12/14/2016	Jan-21	C
21	Edgewater	Public Works	All Hazard	NS ES	VOL-0496 - Edgewater City Hall generator - purchase & installation	HMGP	12/14/2016	Jan-21	C
21	Edgewater	Public Works	All Hazard	NS ES	VOL-0497 - Water Treatment Plant/EOC Generator replacement	HMGP	12/14/2016	Jan-21	C
20	Edgewater	Public Works	Flood	P PP S NS	VOL-0498 - Acquire & demolish repetitive flood loss home at 405 Hart Avenue	HMGP FMA	12/14/2016	Jan-21	C
20	Edgewater	Public Works	Flood Surge Wind	P PP S	VOL-0499 - Menard May Park Erosion Project shoreline stabilization. Timber pier replacement, fishing pier lighting, & upland retaining wall.	HMGP	12/14/2016	Jan-21	C
33	Halifax Health	Halifax Health	All Hazard	P PP S NS ES	VOL-0500 - Data Center hardening @ Daytona Beach campus	HMGP	1/25/2017	Jan-21	C
34	Halifax Health	Halifax Health	All Hazard	P PP NS ES	VOL-0502 Replacement of 3 (1960 Diesel) Emergency power generators and transfer switches	HMGP	1/25/2017	Jan-21	C
34	Halifax Health	Halifax Health	All Hazard	P PP NS ES	VOL-0503 Emergency power for HVAC equipment at Port Orange Hospital facility	HMGP	1/25/2017	Jan-21	C

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21	Lake Helen	Lake Helen	All Hazard	PP NS	VOL-0504 City of Lake Helen Virginia Drive Sub-base stabilization and repaving.	HMGP	1/25/2017	Jan-21	C
24	Lake Helen	Lake Helen	Flood	NS	VOL-0505 City of Lake Helen Ohio stormwater culvert	HMGP	1/25/2017	Jan-21	C
27	Lake Helen	Lake Helen	Flood Wind	PP	VOL-0506 City of Lake Helen Police Dept/EOC flood and wind prevention by sealing for water and protecting doors & windows	HMGP	1/25/2017	Jan-21	C
33	Holly Hill	Holly Hill	Flood Surge	PP S	VOL-0507 Drainage improvements - installation of 29 duckbill valves along outfalls to Halifax River	HMGP	1/25/2017	Jan-21	C
31	Holly Hill	Holly Hill	Flood Surge	PP	VOL-0508 - Shutters for City Hall	HMGP	1/25/2017	Jan-21	C
34	Ormond Beach	Ormond Beach	All Hazard	ES	VOL-0509 Ormond Beach Emergency Operations Center - build Community Center that will be used as EOC in disaster	HMGP	1/25/2017	Jan-21	C
28	DeLand	DeLand	All Hazard	PP NS ES	VOL-0510 Standby generator power for Sanborn Center which is used for meal prep for 1st responders in disaster	HMGP	1/25/2017	Jan-21	C
33	South Daytona	South Daytona	All Hazard	ES	VOL-0511 permanent generator for the Piggotte Center - critical facility during disasters	HMGP	2/6/2017	Jan-21	C
38	Ormond Beach	Ormond Beach	Flood	P PP NS	VOL-0512 Fleming Avenue Stormwater improvements	HMGP	2/6/2017	Jan-21	C

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Priority	Jurisdiction	Responsible Organization	Hazard(s)	Mitigation Technique Category	Initiative	Funding	Approved by LMS Working Group	Original Anticipated Completion	Status
34	Holly Hill	Holly Hill	Wind	ES	VOL-0513 Hurricane rated bay doors at the Fire Station (4 bay doors)	HMGP	2/6/2017	Jan-21	C
32	Volusia County	Public Works	Flood	P PP S	VOL-0514 Rio Way Regional Retention Pond	HMGP	2/6/2017	Jan-21	C
35	Port Orange	Public Works	All Hazard	ES	VOL-0515 Backup generators for Fire Stations 71 and Fire Station 73	HMGP	2/6/2017	Jan-21	C
28	School Board	School Board	All Hazard	NS ES PE	VOL-0516 Provide emergency generators for 9 shelter locations	HMGP	2/6/2017	Jan-21	C
28	School Board	School Board	All Hazard	NS ES PE	VOL-0517 Upgrade 6 shelter locations - provide emergency generator connections and air quality improvements	HMGP	2/6/2017	Jan-21	C
28	School Board	School Board	All Hazard	NS ES PE	VOL-0518 Upgrade 3 shelter locations - provide emergency generators connections and air quality improvements	HMGP	2/6/2017	Jan-21	C
38	Port Orange	Public Works	Flood	P S PP	VOL-0519 Virginia and Monroe Street Drainage Improvement	HMGP	5/26/2017	Jan-21	C
20	Lake Helen	Lake Helen	Flood, Wind	ES	VOL-0520 City of Lake Helen Pre-Disaster Mitigation Proposal	HMGP	9/26/2017	Jan-21	C
39	Ormond Beach	Ormond Beach	Flood	P PP NS	VOL-0521 Woodridge Drive Drainage Improvements	HMGP	12/13/2017	Jan-21	C

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28	Volusia County	Emergency Management (VC)	All Hazard	P PP S	VOL-0522 1048 Shockney Drive Elevation & Retrofit	HMGP	12/13/2017	Jan-21	C
28	Volusia County	Emergency Management (VC)	All Hazard	P PP S	VOL-0523 1013 Shockney Drive Elevation & Retrofit	HMGP	12/13/2017	Jan-21	C
28	Volusia County	Emergency Management (VC)	All Hazard	P PP S	VOL-0524 988 Shockney Drive Elevation & Retrofit	HMGP	12/13/2017	Jan-21	C
28	Volusia County	Emergency Management (VC)	All Hazard	P PP S	VOL-0525 356 Seminole Drive Elevation & Retrofit	HMGP	12/13/2017	Jan-21	C
28	Volusia County	Emergency Management (VC)	All Hazard	P PP S	VOL-0526 Cherokee Road Elevation & Retrofit	HMGP	12/13/2017	Jan-21	C
28	Volusia County	Emergency Management (VC)	All Hazard	P PP S	VOL-0527190 Flamingo Drive Elevation & Retrofit	HMGP	12/13/2017	Jan-21	C
28	Volusia County	Emergency Management (VC)	All Hazard	P PP S	VOL-0528 241 Cherokee Road Elevation & Retrofit	HMGP	12/13/2017	Jan-21	C
28	Volusia County	Emergency Management (VC)	All Hazard	P PP S	VOL-0529 1052 Shockney Drive Elevation & Retrofit	HMGP	12/13/2017	Jan-21	C
29	Holly Hill	Public Works	Flood	P	VOL-0530 Drainage Improvements South Espanola Avenue	HMGP	12/13/2017	Jan-21	C

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**Table 9.2: Mitigation Action Plan: Open Mitigation Initiatives by Jurisdiction (as of 10/21/2019)**

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Category: P = Prevention, PP = Property Protection, S = Structural, ES = Emergency Services, PE = Education

Priority	Jurisdiction	Responsible Organization	Hazard(s)	Mitigation Technique Category	Initiative	Funding	Approved by LMS Working Group	Original Anticipated Completion	Status
25	Deltona	City of Deltona	All Hazard	PP S ES	VOL-0531 Hardening Critical Facilities in Deltona: Station 64	Retrofit Public/Historic Structures	12/13/2017	Jan-21	C
25	Deltona	City of Deltona	All Hazard	PP S ES	VOL-0532 Hardening Critical Facilities in Deltona: Deltona Water	Retrofit Public/Historic Structures	12/13/2017	Jan-21	C
25	Deltona	City of Deltona	All Hazard	PP S ES	VOL-0533 Hardening Critical Facilities in Deltona: Public Works	Retrofit Public/Historic Structures	12/13/2017	Jan-21	C
37	Halifax Health	Halifax Health	Flood Surge Wind	P PP	VOL-0534 Hardening of Hospice Critical Care Site at Port Orange Beach Care Center 2nd Floor	HMGP	12/13/2017	Jan-21	C
37	Halifax Health	Halifax Health	Flood Surge Wind	P PP	VOL-0535 Hardening of Hospice Critical Care Site at Ormond Beach Care Center	HMGP	12/13/2017	Jan-21	C

## SECTION 9: MITIGATION ACTION PLAN

**Table 9.2: Mitigation Action Plan: Open Mitigation Initiatives by Jurisdiction (as of 10/21/2019)**

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Priority	Jurisdiction	Responsible Organization	Hazard(s)	Mitigation Technique Category	Initiative	Funding	Approved by LMS Working Group	Original Anticipated Completion	Status
37	Halifax Health	Halifax Health	Flood Surge Wind	P PP	VOL-0536 Hardening of Hospice Critical Care Site at Southeast Volusia Care Center	HMGP	12/13/2017	Jan-21	C
37	Halifax Health	Halifax Health	Flood Surge Wind	P PP	VOL-0537 Hardening of Hospice Critical Care Site at West Volusia Care Center	HMGP	12/13/2017	Jan-21	C
24	Deltona	City of Deltona	Wind	P PP ES	VOL-0538 Retrofit roof of City Hall	HMGP	12/13/2017	Jan-21	C
26	Holly Hill	City of Holly Hill	Wind	P PP ES	VOL-0539 Hardening of Sica Hall Community Center- Special needs post disaster shelter	HMGP	12/13/2017	Jan-23	C
28	Ormond Beach	City of Ormond Beach	Flood	P PP S	VOL-0540 Elevate and retrofit flood damaged home- 520 W St. Ormond Beach, FL	HMGP	12/13/2017	Jan-23	C
32	Port Orange	City of Port Orange	Flood	P PP NS	VOL-0541 Howes Street drainage improvements	HMGP	4/16/2018	Jan-23	C
24	Edgewater	City of Edgewater	Flood Surge Wind	P PP S ES	VOL-0542 Improvement #1 to 50 lift stations in Edgewater	HMGP	4/16/2018	Jan-23	C
24	Edgewater	City of Edgewater	Flood Surge Wind	P PP S ES	VOL-0543 Improvement #2 to 50 lift stations in Edgewater	HMGP	4/16/2018	Jan-23	C
24	Edgewater	City of Edgewater	Flood Surge Wind	P PP S ES	VOL-0544 Improvement #3 to 50 lift stations in Edgewater	HMGP	4/16/2018	Jan-23	C

## SECTION 9: MITIGATION ACTION PLAN

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Status: **C = Current**

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Priority	Jurisdiction	Responsible Organization	Hazard(s)	Mitigation Technique Category	Initiative	Funding	Approved by LMS Working Group	Original Anticipated Completion	Status
29	Holly Hill	City of Holly Hill	Surge	P ES NS	VOL-0545 Generator for Sica Hall	HMGP	4/16/2018	Jan-23	C
34	Ormond Beach	City of Ormond Beach	Flood	P PP ES	VOL-0546 Strickland Creek flood protection	HMGP	4/16/2018	Jan-23	C
31	Ormond Beach	City of Ormond Beach	Flood	P PP	VOL-0547 Drainage improvements	HMGP	4/16/2018	Jan-23	C
33	Ormond Beach	City of Ormond Beach	Wind	P PP ES PE	VOL-0548 Hardening Critical Facilities in Ormond Beach: City Hall, Police Dept, Fleet Ops, Public Works, and Art Center	HMGP	4/16/2018	Jan-23	C
28	New Smyrna Beach	City of New Smyrna Beach	Flood	P PP S	VOL-0549 Elevation of flood- prone homes	HMGP	4/16/2018	Jan-23	C
28	New Smyrna Beach	City of New Smyrna Beach	Flood	P PP S	VOL-0549 Elevation of flood- prone homes	HMGP	4/16/2018	Jan-23	C
28	New Smyrna Beach	City of New Smyrna Beach	Flood	P PP S	VOL-0551 Acquisition and Demolition of Flood Prone Homes	HMGP	4/16/2018	Jan-23	C
26	South Daytona	City of South Daytona	Flood	P PP S	VOL-0552 Elevation of flood- prone home	HMGP	4/16/2018	Jan-23	C
	Holly Hill	City of Holly Hill	Flood	P PP S ES	VOL- 0553 Lift Station #9 Refurbishment	HMGP	6/20/2018	Jan-23	C

## SECTION 9: MITIGATION ACTION PLAN

**Table 9.2: Mitigation Action Plan: Open Mitigation Initiatives by Jurisdiction (as of 10/21/2019)**

Status: C = Current

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Priority	Jurisdiction	Responsible Organization	Hazard(s)	Mitigation Technique Category	Initiative	Funding	Approved by LMS Working Group	Original Anticipated Completion	Status
	Holly Hill	City of Holly Hill	Flood	P PP S ES	VOL-0554 Lift Station # 19 Refurbishment	HMGP	6/20/2018	Jan-23	C
	Holly Hill	City of Holly Hill	Flood	P PP S ES	VOL-0555 Lift Station #21 Refurbishment	HMGP	6/20/2018	Jan-23	C
	Ormond Beach	City of Ormond Beach	Flood	P PP S	VOL-0556 Elevation of Flood- prone home	HMGP	6/20/2018	Jan-23	C
	FL Hospital MMC	Florida Hospital Memorial Medical Center	All Hazard	P PP S ES	VOL-0557 Emergency Power Upgrade	HMGP	9/12/2018	Jan-23	C
	Ormond Beach	City of Ormond Beach	Flood Surge	P PP S	VOL-0558 Acquire and Demolish Flood-prone home	FMA	9/12/2018	Jan-23	C
	FL Hospital DeLand	Florida Hospital DeLand	All Hazard	P PP S	VOL-559 Roof Repair and Strengthen	HMGP	9/12/2018	Jan-23	C
	Volusia County	VCEM	Riverine Surge	P PP S	VOL-0560 Elevate and retrofit flood prone home	FMA	10/3/2019	Jan-24	C
	Volusia County	VCEM	Riverine Surge	P PP S	VOL-0561 Elevate and retrofit flood prone home	FMA	10/3/2019	Jan-24	C
	FL Hospital DeLand	Florida Hospital DeLand	All Hazard	P PP S	VOL-0562 Upgrade Windows	HMGP	9/12/2018	Jan-23	C

## SECTION 9: MITIGATION ACTION PLAN

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Status: **C = Current**

Category: **P = Prevention, PP = Property Protection, S = Structural, ES = Emergency Services, PE = Education**

Priority	Jurisdiction	Responsible Organization	Hazard(s)	Mitigation Technique Category	Initiative	Funding	Approved by LMS Working Group	Original Anticipated Completion	Status
	Holly Hill	The City of Holly Hill	Flood	P PP S	VOL-563 Elevation of home at 318 Riverside Dr.	HMGP	9/12/2018	Jan-23	C
	DeLand	City of DeLand	All Hazard	P PP S	VOL- 564 Generator Power for sheltering	HMGP	3/20/2019	Jan-24	C
	Volusia County	VCEM	Flood	P PP S	VOL- 0565 Elevate and Retrofit home at 1036 Shockney Dr Ormond Beach	FMA	10/3/2019	Jan-24	C
	Volusia County	VCEM	Flood	P PP S	VOL- 0566 Elevate and Retrofit home at 6411 River Road New Smyrna Beach	FMA	10/3/2019	Jan-24	C
	Volusia County	VCEM	Flood	P PP S	VOL- 0567 Elevate and Retrofit home at 364 Seminole Dr Ormond Beach	FMA	10/3/2019	Jan-24	C

## SECTION 9: MITIGATION ACTION PLAN

### Completed, Deleted and Deferred Projects Since the 2015 Update

The following mitigation projects were completed, deleted or deferred since the 2015 LMS update:

**Table 9.3: Mitigation Action Plan: Completed, Deleted and Deferred Mitigation Initiatives by Jurisdiction (as of 10/21/2019)**

Priority	Jurisdiction	Responsible Organization	Hazard(s)	Mitigation Technique Category	Initiative	Funding	Approved by LMS Working Group	Original Anticipated Completion	Status
	Deltona	Public Works	Flood		VOL-0458 Blackburn Avenue and Eldridge Street stormwater improvements	HMGP FMA	6/11/2014	1/1/2016	Completed
	Deltona	Public Works	Flood		VOL-0459 Brickell Drive stormwater improvements	HMGP FMA	6/12/2014	1/1/2016	Completed
	Deltona	Public Works	Flood		VOL-0462 Leland Drive stormwater improvements	HMGP FMA	6/15/2014	1/1/2016	Completed
35	Halifax Health	EM Coordinator	All Hazard	P P P NS ES	VOL-0501 Addition of 800-ton chiller at main campus – initiative cancelled, per FDEM not an eligible project	HMGP	N/A	N/A	Terminated due to funding issues (not eligible).

# **ATTACHMENT "B"**

## **SOUTH DAYTONA FLOODPLAIN MANAGEMENT GOALS, OBJECTIVES AND INITIATIVES**

### **South Daytona Floodplain Management Goals, Objectives and Initiatives**

#### **1.) Floodplain Management Plan Implementation Update/Status**

The City has accomplished or is continuously striving to achieve each of the City's mitigation initiatives. The City of South Daytona Floodplain Management Plan was incorporated into the Volusia County Integrated Management Plan by Resolution and the annual progress report update. An electronic copy of the Volusia County Integrated Floodplain Management Plan 2020 Update and the City of South Daytona Floodplain Management Plan and Action Plan is available for review at the County of Volusia website: <http://www.volusia.org/services/public-protection/emergency-management/>. The City of South Daytona 2020 Annual Progress Report is available for review at the City of South Daytona Community Development Department upon request.

**Goal** – To protect human life and health through preparedness of emergency response teams from the Fire, Police and Public Works Departments.

**Status** – *The City has prepared and updates the South Daytona Disaster/Recovery Plan as needed. The plan outlines interdepartmental coordination for a unified response to disasters including flooding events. The Fire Department, Police, Public Works and the Community Development Department play vital rolls in the implementation of any emergency response.*

**Goal** – Provide leadership in protecting residential properties from the impacts of floods by coordinating historical data with updated stormwater management studies to identify possible flooding concerns.

**Status** – *The City Council and City Manager are dedicated to the protection of the community from flooding issues. South Daytona is a coastal community with an average ground elevation of about 6.0' above sea level. This geographical feature dictates the need to be active, aggressive and responsive to the community needs for flood protection.*

**Goal** – To minimize the need for rescue and relief efforts associated with flooding and generally undertaken at the expense of the general public with proper planning and cost-effective storm water improvements.

**Status** – *The City is continuously assessing the Stormwater Infrastructure and making*

***necessary improvements as needed. South Daytona implemented a Stormwater Utility Fee to fund projects and has spent over \$30,000,000 in the past 20 years on stormwater related projects.***

**Goal** – To minimize damage to public facilities and utilities such as water and gas mains, electric, telephone and sewer lines, streets and bridges located in floodplains through hardening facilities and Public Works Department preparedness.

***Status*** – *Public Works in conjunction with other utility and service providers work together to maintain in proper condition, replace when needed, and harden when necessary, all utilities, streets and bridges within the City.*

**Goal** – To help maintain a stable tax base by providing for the sound use and development of flood prone areas in such a manner as to minimize flood blighted areas.

***Status*** – *An integral part of a stable tax base for sound development is adhering to sound development codes and stormwater protection. South Daytona has in place a very strict development code that exceeds the minimum requirements set forth in the Florida Building Code and the Community Rating System Program.*

**Goal** – Provide advice to property owners by the Floodplain Manager/Chief Building Official, concerning the protection of their properties from flooding.

***Status*** – *This service is provided on request by the Floodplain Manager/Chief Building Official and has been an invaluable outreach program to assist homeowners and business owners with their localized drainage issues.*

**Goal** – Maintain a Public awareness program that informs all property owners in the flood zones through mail-outs and website.

***Status*** – *City staff continues to mail letters annually to homeowners of repetitive loss structures and those located in the SFHA regarding their location/status of their flood zone. The City website also provides many different documents and links for Public Awareness.*

**Goal** – Maintain an aggressive grant program to identify and obtain funding for both pre- and post-disaster mitigation projects through the Community Development and the Redevelopment Departments.

***Status*** – *City staff continues to apply for grants and most recently was awarded grant from the SJRWMD for the Windle Lane Stormwater project. Those funds will be used to leverage both FEMA and DEP funds to complete the project. The city has received over 30 million dollars over the past 40 years for mitigation and stormwater that have significantly reduced the number of structures that could flood during storm events.*

**Goal** – Create programs to manage the surface water runoff through maintaining an

updated stormwater management plan through the Public Works Department in conjunction with the Floodplain Manager and Chief Building Official.

***Status – South Daytona has a Master Drainage Plan that is updated regularly with field collected data from Public Works after major storm events. Improvements are designed for areas with reoccurring flooding issues.***

**2.) Failure to meet objectives or implement goals/initiatives.**

N/A – the City of South Daytona meets their objectives or implements goals/initiatives as provide for in the plan.

**3.) New projects and recommendations.**

**New Mitigation Projects:**

**VOL – 0471 Windle Lane Stormwater Project**

This project includes the purchase of a 2.26-acre vacant lot adjacent to the two existing stormwater ponds. The existing ponds are located on 1.37 acres and serve two phases of the Coventry Forest Subdivision. The acquired 2.26-acre lot will be excavated along with the other two existing ponds to make one large wet detention system. This larger system will have a pumping station to aid in recovery efforts during and after major storm events thereby allowing better ingress/egress for our emergency services vehicles. The project also includes an outfall structure designed to stop tail water from Reed Canal backing up into the proposed pond system. The project is funded through FEMA, DEP, SJRWMD grant funds and City of South Daytona stormwater utility funds. The project is under construction and will be completed by June 2020.

**Past LMS Projects and Status:**

VOL0389 – South Daytona EOC/Public Works Facility. Design underway; no funding to date.

VOL-0210 – Country Club Manor Subdivision. Design underway; no funding to date.

VOL0246 – Reed Canal Reconstruction Design. Design underway; no funding to date.

VOL-0244 – Golfview Subdivision Retrofit – Phase V Stormwater. Completed 2008.

VOL0245 – Lantern Park Retrofit – Phase V Stormwater. Completed in 2016

VOL-0247 – Western Road Stormwater Improvements. Completed 2006.

VOL0248 – Greenbriar Subdivision Retrofit. Completed 2012.

VOL-0378 – Stevens Canal Outflow Pond. Completed 2010.

VOL-0395 Reed Canal Stormwater Treatment Facility. Completed 2012.

VOL-0453 Lantern Subdivision Retention Pond. Completed in 2016.

VOL-0469 Jones Street Stormwater Project. Completed in 2017.