

# Stormwater Projects / Program Report Tampa City Council Update No. 17 - March 4, 2021

# A) Major Capital Improvements

Projects 1-5 are regional multi-year flooding relief projects for the City of Tampa. Each project fact sheet includes a description, location map, and timeline status. Each of these projects is in various stages of development and will continue for a number of years due to the complexity and comprehensive nature of the project. Project 6 incorporates the Miscellaneous Neighborhood Projects that typically have a six (6) month or less construction timeline and each have their own fact sheet.

#### **Project List CIP = \$251,285,000**

- 1. Upper Peninsula Flooding Relief
- 2. North Tampa Closed Basin Flooding
- 3. Cypress Street Outfall Extension
- 4. Southeast Seminole Heights Flooding Relief
- 5. Lower Peninsula Flooding Relief
- 6. Miscellaneous Capital Improvements

# B) Stormwater Capital Improvement Bond Program Report

C) Stormwater Service Assessment Program \$14,000,000



# **Section A**

# **Major Capital Improvements**

# 1. Upper Peninsula Flooding Relief

(Dale Mabry Trunkline)

**City Project #: 1001017** 

#### **Project Description:**

Upper Peninsula Regional Stormwater Improvements is a multi-year flooding relief project covering approximately 3,400 acres of South Tampa from Kennedy Boulevard southward to Euclid Avenue. Stormwater Engineering Division has developed a stormwater model and comprehensive study of the project area, with the goal of providing incremental improvements to the stormwater infrastructure. The main benefit of the project is to provide targeted relief in flood prone areas to address public safety.

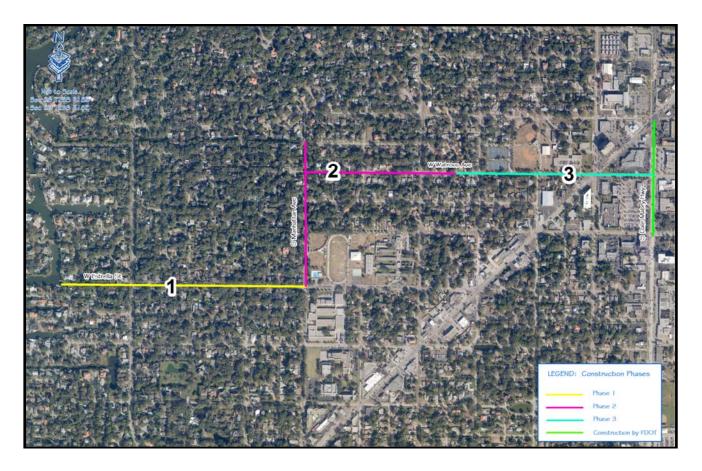
This project will alleviate the severe chronic flooding along Dale Mabry Highway between Henderson Blvd and Neptune Street. The highway is part of the primary evacuation route for South Tampa. Existing pipes will be connected to the trunkline thereby providing basin wide flooding relief.

Dale Mabry Trunkline project consists of the construction of a box culvert from Dale Mabry/Henderson/Neptune to a new outfall at Estrella Street. The system will also interconnect to improvements along the Watrous Canal, thus providing two outfalls for flooding relief.

#### **Location Map:**



# **Dale Mabry Trunkline Project Phases**



# **Summary of Project Costs:**

	_		Funding	Sche	dule
Phase	Firm	Amount	Source	Start	Finish
Design/Build	Kimmins	\$37M	COT/SWFWMD	FY18	FY21

# Timeline:

- Construction started June 25, 2018, and the projected completion is January 2021.
- Construction completed in November, 2020.



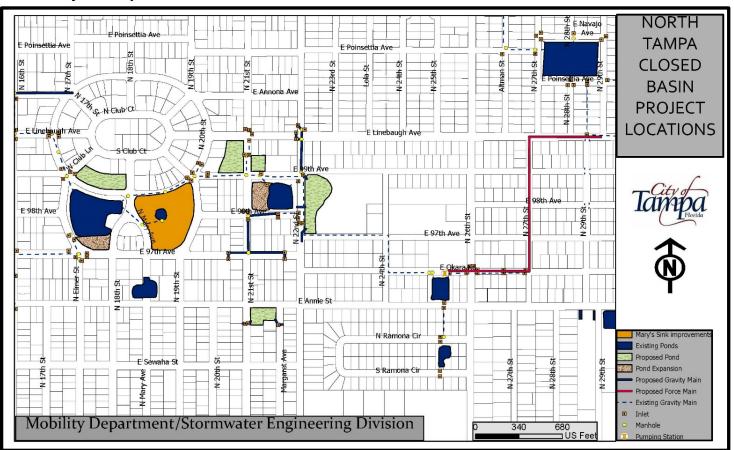
# 2. North Tampa Closed Basins Flooding Relief

**City Project #: 0000403** 

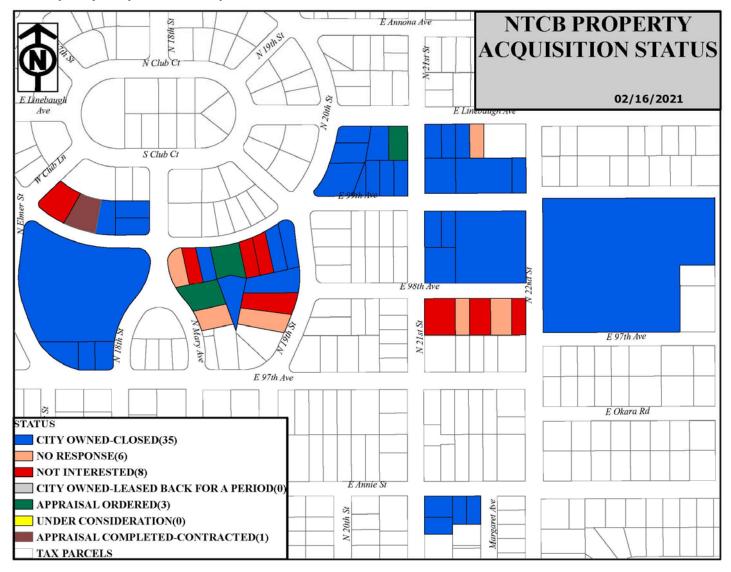
#### **Project Description:**

Portions of the northern part of the City of Tampa flood periodically due to their location within closed drainage basins and the absence of drainage infrastructure to provide relief. The North Tampa Closed Basins (NTCB) study area is generally bounded by Fowler Avenue on the north, 30th Street on the east, Busch Boulevard on the south and Florida Avenue on the west and includes several individual closed basins that comprise a portion of the springshed for Sulphur Springs, which is located on the north bank of the Hillsborough River just west of Nebraska Avenue. These areas rely primarily on discharge to groundwater through sinkholes, whose receiving capacity has been observed to be unreliable due to sedimentation/clogging, high groundwater levels or possible collapse of subsurface conveyances.

Based on a model and study of the closed basin area, properties are targeted for acquisition and will serve as future stormwater ponds. The project consists of property acquisition in the area experiencing the most severe flooding. Approximately 50 properties are identified.



#### **Property Acquisition Map:**



# **Summary of Project Costs:**

		_	Funding Schedule		dule
Phase	Firm	Amount	Source	Start	Finish
Property Acquisition	In-House	\$1M/ Year	COT	FY16	FY20
Construction	In-House/bid	\$2M	СОТ	FY19	FY21

#### Timeline:

- The City of Tampa Real Estate Division is in the process of acquiring the properties as identified by the Mobility Department's North Tampa Closed Basin Study. Please see the property acquisition map above.
- The Real Estate Division is currently working with multiple potential sellers.
- Property acquisition to be complete in FY20.
- The construction of David E. West pond and piping system is completed.
- Several of the projects are in the design phase.



# 3. Cypress Street Outfall Extension

**City Project #: 1001018** 

#### **Project Description:**

The drainage basin is generally bounded by Interstate 275 on the north, Habana Avenue on the west, Hyde Park Avenue on the east and Swann Avenue on the south. The total basin area is approximately 860 acres and outfalls to the Hillsborough Bay. Several areas within the northern portion of the basin (north of Kennedy Boulevard) have experienced numerous incidences of flooding, which has led to flood damage claims.

The project consists of the construction of a dual box culvert from the existing stub at Cass and North Boulevard to Rome Avenue. Another box culvert will connect at Cass and Rome Avenue and run south towards Kennedy Boulevard. The last leg will connect at Rome and West Gray Street and extend west to North Tampania Avenue. This project is the second phase of the Cypress Street Outfall Flooding Relief Project that will be Design/Build procurement in coordination with the Water Department.

#### **Location Map:**



## **Cypress Street Outfall:**



## **Summary of Project Costs:**

Dhasa	F:	Amanunt	Funding	Schedule	
Phase	Firm	Amount	Source	Start	Finish
Design/Build	Woodruff & Sons	\$32 M	COT/SWFWMD	FY17	FY21

#### Timeline:

- Design and Permitting is 100% completed.
- The SWFWMD Board approved the GMP in April 2019.
- Tampa City Council approved the GMP in June 2019.
- The construction is underway with an expected completion of November 2021.



# 4. Southeast Seminole Heights Flooding Relief

**City Project #: 1000773** 

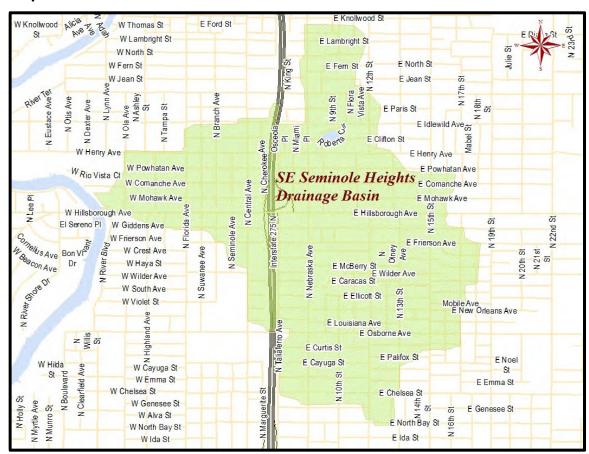
#### **Project Description:**

The Southeast Seminole Heights Drainage Basin encompasses 779 acres of urban area that discharges into the Hillsborough River south of the dam. The basin area extends northerly from East Chelsea Street east of I-275 freeway to East Diana Street and easterly to North 18th Street. To the west of I-275, the basin narrows and extends from Giddens Avenue to East North Street. The Basin is part of a historic Tampa neighborhood that had its beginnings in the early 1900's.

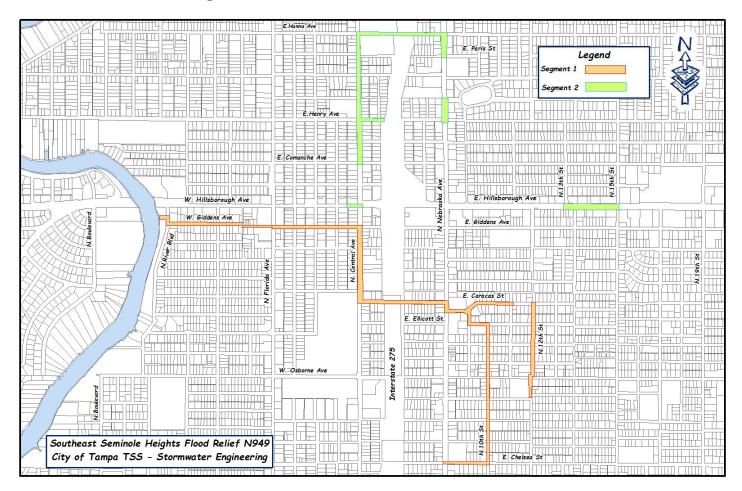
Southeast Seminole Heights Basin has numerous flooding locations, failing and undersized conveyance systems throughout the basin. A recent drainage study identified several potential stormwater improvement projects to alleviate flooding.

A feasibility study will be performed to assess the potential drainage improvement projects as recommended in the previous drainage study. Individual improvement projects will subsequently be designed and constructed throughout the basin areas to improve drainage conditions.

#### **Location Map:**



#### **Southeast Seminole Heights:**



#### **Summary of Project Costs:**

Phase	Firm	Funding		S	Schedule	
Phase	Firm	Amount	Source	Start	Finish	
Planning Study	LWES	\$90K	СОТ	FY16	FY16	
Feasibility Study	FDC	\$45K	СОТ	FY17	FY18	
Design & Construction	Nelson/ Wade Trim	\$35M	COT/SWFWMD	FY19	FY23	

#### Timeline:

- The Planning and Feasibility studies are complete.
- The design is 90% complete.
- The target date for presenting the GMP for Construction to City Council is April 2021.
- The target date for the start of construction is May 2021.



# **5. Lower Peninsula Flooding Relief**

**City Project #: 1000178** 

#### **Project Description:**

A regional watershed model is needed to provide a baseline for capital project improvement planning and design. The area has numerous flooding locations, failing and undersized conveyance systems throughout the 6,000-acre watershed.

The purpose of the project is to develop a baseline for capital improvement planning and design that provides conceptual solutions to frequent flooding associated with undersized stormwater pipes and relic ditch systems in the region. It is the City's desire to pursue cooperative funding from the South West Florida Water Management District (SWFWMD) for these improvements; therefore, the watershed study must meet SWFWMD's requirements for funding.

#### **Location Map:**



#### **Southeast Segment:**



#### **Summary of Project Costs:**

_			Funding	Schedule	
Phase	Firm	Amount	Source	Start	Finish
Planning Study	Applied Sciences	\$650K	COT/SWFWMD	FY16	FY18
Southeast Segment Design	Atkins	\$4M	COT/SWFWMD	FY20	FY20
Southeast Segment Construction	Kimmins	\$21M	COT/SWFWMD	FY21	FY23

#### Timeline:

- The existing and proposed condition models are complete.
- The design/build team of Kimmins/Atkins was selected. Scope and Fee negotiation for design is complete, and City Council approved it in June.
- The Southeast Segment Design/Permitting is underway.
- The target date for presenting the GMP for Construction to City Council is August 2021.
- The target date for the start of construction is September 2021.



# 6. Miscellaneous Capital Improvement Project Status

Tampa City Council Update No. 17 - March, 2021

Construction timelines are typically six (6) months or less for neighborhood projects. For additional project descriptions, please see the project fact sheets following this project status report.

PROJECT STATUS KEY			
Design			
Design Complete and In Construction Queue			
Under construction			
Construction Complete			

CAPITAL IMPROVEMENT PROJECTS	DISTRICT	ESTIMATE
Projects Assigned to Construction Contracts		
1. Copeland Park Force Main	7	\$600,000

2. 2nd Street from Interbay to Bay	4	\$200,000
3. FY19/FY20 Annual CIPP Rehabilitation	Citywide	\$1,200,000
4. David E. West Park Pond Enhancements	7	\$1,000,000
5. 43rd Street Outfall Regional Drainage Improvements, PH III	5	\$7,200,000
6. Forest Hills Park Improvements (deferred by Parks Dept.)	7	\$880,000
7. Eastridge Pumping Station Rehabilitation	7	\$700,00
8. Anita Subdivision Drainage Improvements PH II	4	\$600,000
9. 56th Street and Broadway Avenue Flooding Relief	5	\$2,000,000
10. Hamilton Creek Water Quality Improvement	6	\$500,000
11. Lamb Canal Rehabilitation	4	\$3,500,00
12. Ditch Rehabilitation Program	Citywide	\$1,000,00
13. Hyde Park Groundwater Diversion Ph 2 (Newport, Willow, Orleans and Watrous)	4	\$2,000,00
14. Beach Park Flooding Relief	6	\$1,000,00
15. Manhattan: Vasconia to Bay To Bay Flooding Relief	4	\$6,200,00

CAPITAL IMPROVEMENT PROJECTS	DISTRICT	ESTIMATE
Job Order Contracting		
16. Copeland Park Pumping Station	7	\$200,000
17. Lantana/Poinsettia Pumping Station	7	\$200,000
18. El Portal & Newport Pumping Station	6	\$200,000
19. Donut Pond PS Bar Screen Upgrade	7	\$200,000

Projects Assigned to Mobility Department In-House Crews		
20. Idell Street Roadway Improvements PH II	5	\$75,000
21. Concordia Pond	4	\$125,000
22. Binnicker at 4th Street	4	\$50,000
23. Neptune/Treasure Drainage Improvement	6	\$75,000
24. Ballast Point Blvd and MacDill Ave.	4	\$125,000
25. Chelsea Street at 44th Flooding Relief	5	\$90,000
26. Everina Street from Carrington to Coachman	4	\$200,000
27. Okara and 26th St. Force Main	7	\$90,000
28. Terrace Park Pond Outfall (aka Bougainvillea Pond Outfall)	7	\$75,000
29. NTCB - 21 <sup>st</sup> & Annie Pond	7	\$90,000
30. Howard and North B St. Flooding Relief	4&5	\$75,000
31. 36th St. from Osborne to Palifox	5	\$90,000
32. Webster St. from Osborne to Palifox	5	\$90,000
33. Troy St. from Osborne to Palifox	5	\$90,000
34. NTCB - 17 <sup>th</sup> & Annona Flooding Relief	7	\$75,000
35. NTCB - Elmer Pond Expansion	7	\$50,000
36. NTCB - 99th Ave. Pond Expansion	7	\$50,000
37. 22nd St. & McBerry St. Flooding Relief	5	\$75,000
38. Parkland Estates: Audubon & Fountain	4	\$50,000
39. 2 <sup>nd</sup> St. from Wyoming to Interbay	4	\$50,000
40. Clark & Fair Oaks	4	\$95,000

# **Copeland Park Force Main**

#### Flooding Relief FY2018; District 7

Estimated cost: \$600K

#### **Project Description:**

Currently a temporary pump is utilized to drain the low-lying area in Copeland Park. A permanent pumping station is proposed to replace the temporary pump and provide a more reliable system to better alleviate the flooding in the area.

The project consists of construction of new force main connecting Copeland Pumping Station to the existing drainage system on E 111<sup>th</sup> Ave. and N 26<sup>th</sup> St. area.



# 2<sup>nd</sup> Street from Interbay to Bay

#### Flooding Relief FY2017, District 4

Estimated cost: \$200K

#### **Project Description:**

New drainage system to is proposed along 2<sup>nd</sup> Street to connect to box culvert along West Bay Avenue.

#### **Justification:**

Severe Street flooding along South 2<sup>nd</sup> Street from Interbay Boulevard to West Bay Avenue.

#### **Related Issues:**

S. 2<sup>nd</sup> Street dead ends before West Bay Avenue. Easement may be required to connect to existing box culvert along West Bay Avenue.

**Project Map & Photo** 



Stormwater Improvement Project

2nd Street - Interbay to Bay

# FY19/FY20 Annual CIPP Rehabilitation

#### Citywide

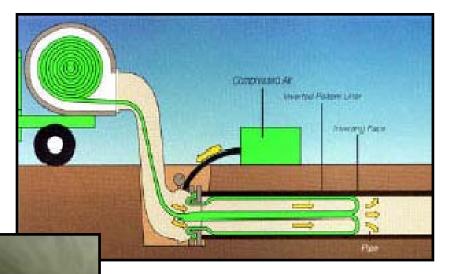
FY19 Estimated cost: \$600K; FY20 Estimated cost: \$600K

#### **Project Description:**

The scope of work includes labor, materials, and equipment to rehabilitate gravity stormwater pipes from 12-inch to 48-inch diameter by installation of cured-in-place pipe liner.

#### **Justification:**

The project provides rehabilitation of deteriorated stormwater pipe systems.







# **David E. West Park Pond Enhancements**

#### Water Quality Improvement/Flooding Relief FY2017, District 7

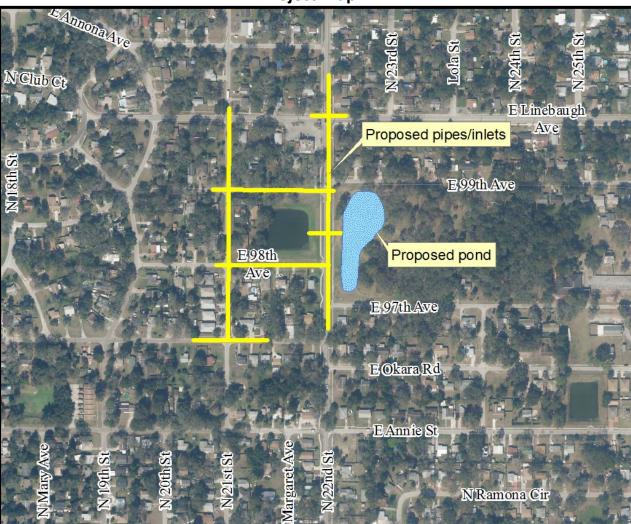
Estimated cost: \$1M

#### **Project Description:**

The project consists of the construction of a stormwater pond, pipes, and inlets on City lands. The pond will be hydraulically equalized with an existing stormwater pond, thus providing additional back-up volume to relieve downstream flooding.

#### Justification:

Attenuation storage is needed in this area because it is a closed basin with limited receiving capacity in the receiving sink. Multiple flooding complaints have been received.



# 43<sup>rd</sup> Street Outfall PH III

#### Regional Drainage Improvement - FY2017, District 5

Estimated cost: \$7.2M

#### **Project Description:**

The project consists of the construction of a 48-inch RCP pipe from the Phase 2 regional stormwater pond to the 43<sup>rd</sup> Street Outfall just upstream of McKay Bay. Additionally, a culvert upgrade will be constructed at the terminus of the 43<sup>rd</sup> Street ditch to reduce flooding on adjacent properties.

#### Justification:

The project provides a new secondary outfall to convey runoff from the Phase 2 regional pond to the 43<sup>rd</sup> Street Outfall. Phase 3 improvements provide additional flood relief for properties and roadways that are severely impacted.



# **Forest Hills Park Improvements**

#### FY2017, District 7

Estimated cost of Stormwater Share: \$880K

#### **Project Description:**

The scope of this project is to design a pond on the southern portion of the property and a stormwater collection system for the field area, which will convey runoff to the pond. The pond will require a pumped outfall. The basin analysis shall include the outfall rate for future design of a pumping station by others. Topographic survey will be needed to evaluate what elevation the field can be raised to without impacting abutting properties and to evaluate the disposition of the tennis courts. Surface improvements may include new tennis courts or other recreational facilities and additional parking. The Parks and Recreation Department is co-funding this design with Stormwater Engineering, as Stormwater will be a co-funding participant for the construction project. Stormwater has also identified the need to construct a piping system on the south side of 109<sup>th</sup> Avenue, to convey emergency bypass flow, and to continue the piping system along the east side of the property to collect and convey runoff from 108<sup>th</sup> Avenue and Seneca Avenue.

#### Justification:

The Parks Department has an existing baseball field located in a low area that holds water during the rainy season causing it to be unusable. Parks would like to raise the low-lying areas to provide for a dry playing field during the summer months. Stormwater will provide funding and assistance to relocate the low area.



# **Eastridge Pumping Station Rehabilitation**

#### Flooding Relief FY2018, District 7

Estimated cost: \$700K

#### **Project Description:**

The project consists of removal of the hydraulically driven pump and installation of two electric submersible pumps and motor controls to provide redundancy.

#### **Justification:**

The Eastridge Pumping Station was constructed in 1983 with a single hydraulically driven pump. Repairs and maintenance has increased in the past five years.

#### **Project Map and Photo**



# **Anita Subdivision Drainage Improvements PH II**

#### Flooding Relief FY2018, District 4

Estimated cost: \$600K

#### **Project Description:**

This neighborhood was developed with ditches draining to a collection system that discharged the stormwater to a system on Westshore Boulevard. Over the years, the ditches have been filled in and driveway culverts have been installed improperly. Consultant will evaluate the current drainage patterns and identify areas where ponding occurs. City crews will reestablish the relic ditches and correct the driveway culverts.

#### Justification:

The project reduces the flooding affecting residential properties and roadways.



# 56th Street and Broadway Avenue Flooding Relief

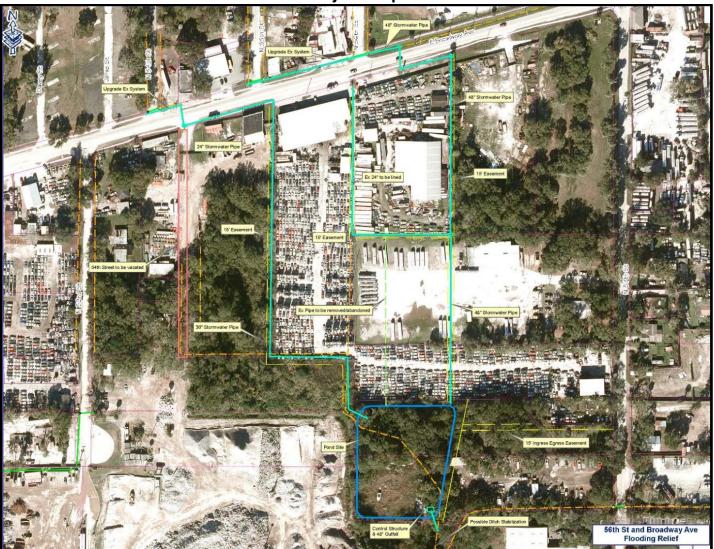
# Water Quality Improvement/Flooding Relief FY2019, District 5 Estimated cost: \$2M

#### **Project Description:**

This section of Broadway Avenue experiences frequent flooding resulting from a combination of undersized piping systems and failing ditches. This project consists of property acquisition for a new stormwater pond that will provide water quality treatment and attenuation for the area, and the relocation, replacement and upsizing of pipes and ditches.

#### Justification:

This section of Broadway Avenue experiences frequent flooding resulting from a combination of undersized piping systems and failing ditches. The proposed project will improve drainage in the area.



# **Hamilton Creek Water Quality Improvement**

#### Water Quality Improvement FY2019, District 6

Estimated cost: \$500K

#### **Project Description:**

The scope of this project is to construct a five-pond stormwater treatment facility for Hamilton Creek, which outfalls to the Hillsborough River.

#### Justification:

The receiving section of the river has been listed by the Florida Department of Environmental Protection as impaired for fecal coliforms. This segment of the river was issued a Total Maximum Daily Load (TMDL) for nutrients and fecal coliforms and is currently under Basin Management Action Plan (BMAP) requirements for water quality improvements. The proposed project is part of the effort to improve the Hillsborough River water quality by reducing the amount of fecal coliform and nutrients discharged to the river. The Lowry Park Zoo supports this project and will be cooperative in implementing educational environmental programs on the project site to benefit the public.



# **Lamb Canal Rehabilitation**

#### Water Quality Improvement/Flooding Relief FY2019, District 4

Estimated cost: \$3.5M

#### **Project Description:**

The project will include removal of sediments and reconstruction of the banks of the canal to restore the canal capacity and protect properties from erosion.

#### Justification:

Page **24** of **62** 

Lamb canal from South Schiller Street to West Lowell Avenue section has eroded over the years and in need of rehabilitation. The capacity of the canal is significantly reduced due to embankment deterioration.

#### **Project Map and Photo**



# **Ditch Rehabilitation Program**

#### Water Quality Improvement/Flooding Relief FY2019, Citywide

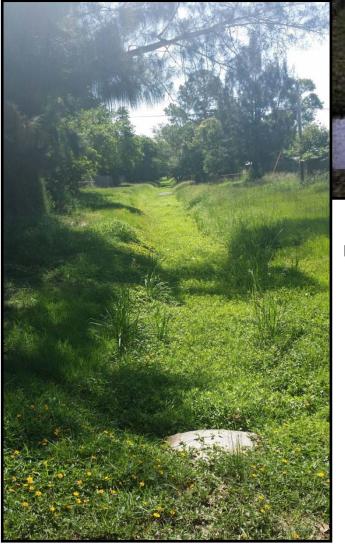
Estimated cost: \$1M

#### **Project Description:**

This project creates an annual contract to address ditch improvements and associated upgrades to improve conveyance capacity and embankment stabilization.

#### Justification:

Rehabilitation is needed for ditches that have diminished capacity due to embankment erosion that cannot be corrected by maintenance.



**Project photos** 

Page 25 of 62

# **Hyde Park Groundwater Diversion Ph 2** (New Port, Willow, Orleans, and Watrous)

#### **Groundwater Diversion FY2020; District 4**

Estimated cost: \$2M

#### **Project Description:**

This area of Hyde Park has experienced extremely high groundwater level causing seepage from the cracks in the sidewalks, driveways and roadway. This seepage has killed roadway trees and prompted a growth of algae on the street and sidewalks, posing a hazard to pedestrians and traffic.

The proposed project includes the installation of underdrain systems along each side of the roadways. The new underdrain systems will be connected to the existing inlets along Bayshore Boulevard for discharge to Hillsborough Bay.



# **Beach Park Drainage Improvement**

# Flooding Relief FY2020; District 6

Estimated cost: \$1M

#### **Project Description:**

This project consists of construction of new pipes and inlets connecting to the existing system on Swann Avenue to alleviate flooding in the area.

#### **Justification:**

Flooding occurs in the area due to insufficient drainage capacity of the existing system. The proposed project will provide a second outlet for the low-lying area to reduce the localized flooding.



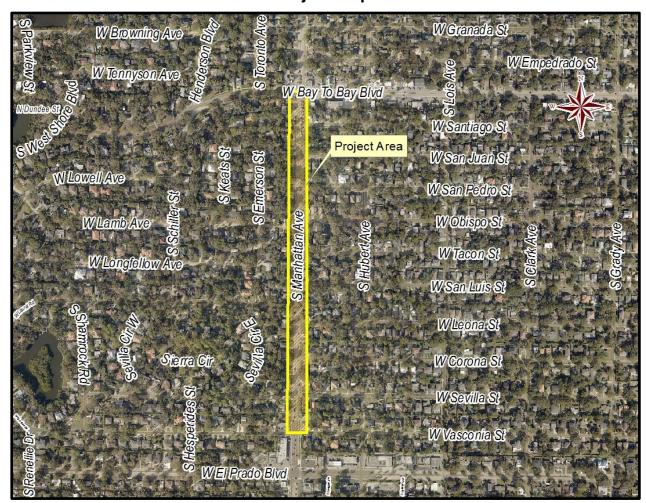
# Manhattan: Vasconia to Bay To Bay

#### Flooding Relief FY2020; District 4

Estimated cost: \$6.2M

#### **Project Description:**

This section of Manhattan Avenue has experienced flooding due to lack of a stormwater system. The proposed project consists of installation of new inlets and pipes connecting to the existing Vasconia system to provide flooding relief for the area.



# **Copeland Park Pumping Station**

#### Flooding Relief FY2018, District 7

Estimated cost: \$200K

#### **Project Description:**

Currently a temporary pump is utilized to drain the low-lying area in Copeland Park. The proposed project will replace the temporary pump with a permanent pumping station and provide a more reliable system to better alleviate the flooding in the area.

The project consists of construction of a new pumping station. The force main connecting the pumping station to the existing drainage system on E 111<sup>th</sup> Ave. and N 26<sup>th</sup> St. area will be constructed under a separate project.

#### **Project Map and Photo**



# **Lantana / Poinsettia Flooding Relief**

#### Flooding Relief FY2020, District 7

Estimated cost: \$200k

#### **Project Description:**

The project consists of property acquisition and construction of a new collection system, a new pumping station to replace the temporary pumping station, and force main connecting to the existing drainage system on N 11<sup>th</sup> Street.

#### **Justification:**

Currently a temporary pump is utilized to drain the low-lying area along E Poinsettia Avenue between N Brooks Street and N Lantana Avenue. The proposed project will replace the temporary pump with a permanent pumping station.



# **El Portal/Newport Pumping Station**

#### FY2021, District 6

Estimated cost: \$200k

#### **Project Description:**

The project consists of construction of a new pumping station and force main connecting to the existing drainage system on Busch Boulevard.

#### Justification:

The pond located at N Newport Avenue and Busch Boulevard area currently discharges via a temporary pump. The proposed project will replace the temporary pump with a permanent pumping station to provide a more reliable outfall for the pond system.

Project area

Project area

Project area

# **Donut Pond PS Bar Screen Upgrade**

FY2021, District 7

Estimated cost: \$200K

#### **Project Description:**

Currently a manual bar screen is utilized for capture and removal of trash from entering the Donut pond Pumping Station. This system is labor intensive and inadequate to intercept the large quantity of the trash from the upstream ditch. The proposed project will replace the manual screen with an automated one to improve efficiency and removal rate.

The project consists of installation of an automated bar screen and a dumpster for disposal.

#### **Location Map**



# **Idell Street Roadway Improvements PH II**

#### Flooding Relief FY2017, District 5

Estimated cost: \$75K

#### **Project Description:**

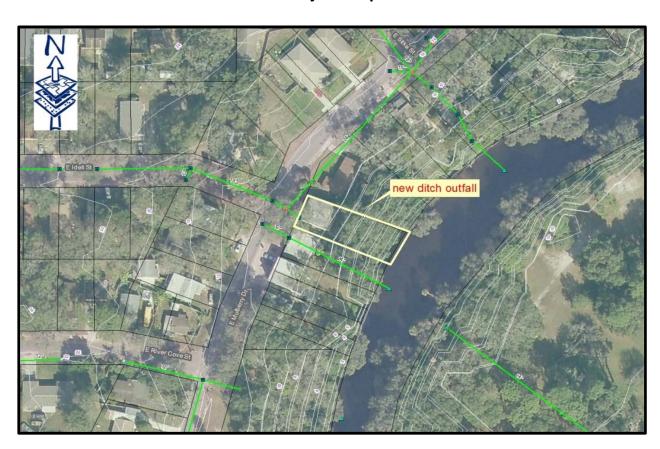
Construction of new ditch system discharging to the Hillsborough River.

#### Justification:

Phase 2 of Idell Street Roadway improvements which will provide for a new outfall into the river. Stormwater in-house construction crews will be responsible for installing the new outfall via ditch to the River.

#### **Related Issues:**

Site located at 1911 East Mulberry.



# **Concordia Pond**

#### Flooding Relief FY2017, District 4

Estimated cost: \$125K

#### **Project Description:**

Four parcels were acquired to construct a drainage pond to provide additional drainage system capacity before discharge to box culvert in adjacent CSX corridor.

#### **Justification:**

During heavy rain events, several parcels at the corner of Concordia and Kensington experience flooding due to outdated drainage system.

#### **Related Issues:**

A CSX drainage connection permit is necessary before construction.

#### **Project Map and Photo**



# Binnicker at 4th Street

#### Flooding Relief FY2018, District 4

Estimated cost: \$50K

#### **Project Description:**

The project consists of construction of new pipes and inlets and regrading of the roadway as needed.

#### **Justification:**

Localized flooding occurs at intersection of West Binnicker Avenue and South 4<sup>th</sup> Street. The proposed project will alleviate the flooding.



# **Neptune/Treasure Drainage Improvement**

#### Pipe in Ditch FY2018, District 6

Estimated cost: \$75K

#### **Project Description:**

The proposed project will pipe in the existing ditch with a shallow swale.

#### **Justification:**

The ditch is eroded and in need of restoration. The proposed project will prevent further erosion and enhance public safety.



# **Ballast Point Boulevard at MacDill Avenue**

#### Flooding Relief FY 2019, District 4

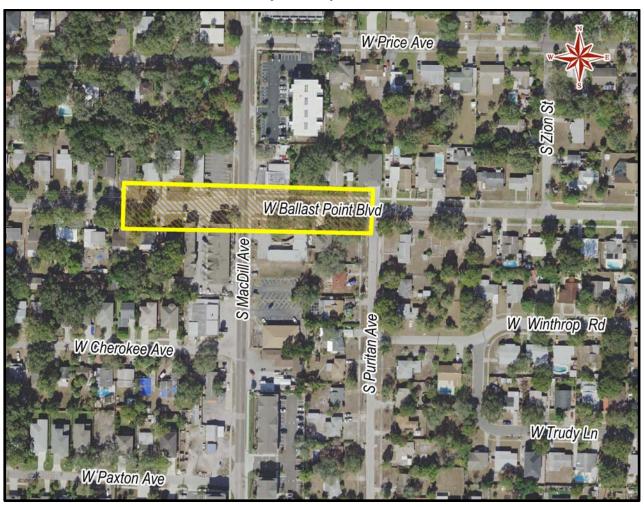
Estimated cost: \$125K

#### **Project Description:**

The project consists of construction of new surface water management facilities and roadway re-grading.

#### Justification:

The intersection experiences frequent flooding from blocked drainage resulting from the cumulative impact of sidewalk additions and street overlayment. The project will improve conveyance to relieve flooding in the intersection.



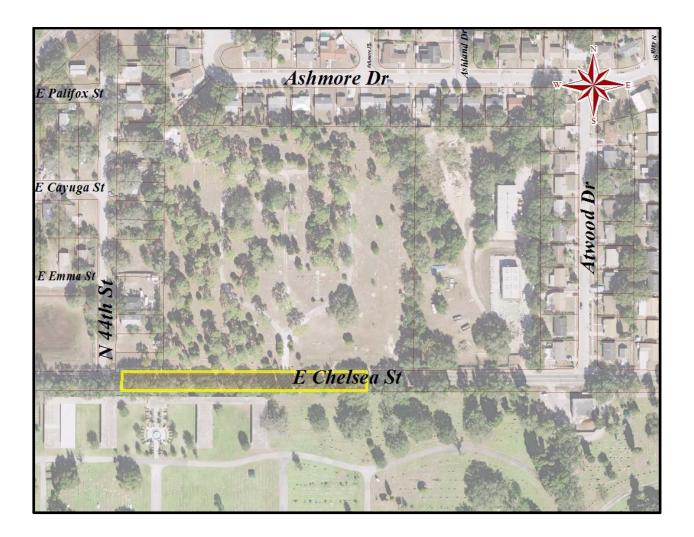
# **Chelsea Street at 44th Street Flooding Relief**

#### Flooding Relief FY 2020, District 5

Estimated cost: \$90K

#### **Project Description:**

Low-lying areas on East Chelsea Street between North 44<sup>th</sup> Street and Atwood Drive experiences frequent flooding. The proposed project consists of construction of new pipes and inlets connecting to the existing drainage system to alleviate the current flooding situation.



# **Everina Street from Carrington to Coachman**

#### Flooding Relief FY 2020, District 4

Estimated cost: \$200K

#### **Project Description:**

This section of S Everina Street has experienced localized flooding in the past. The scope of this project is to install new pipes and inlets connecting to the existing system to provide flooding relief for the residential neighborhood.



# Okara & 26th Street Force Main

#### Flooding Relief, District 7

Estimated cost: \$90K

#### **Project Description:**

Currently the pond located at Okara Road and 26<sup>th</sup> Street outfalls via a temporary pump and force mains. The proposed project will replace the force main system. The temporary pump will be replaced with a permanent pumping station later under a separate project.

# **Terrace Park Pond Outfall**

#### Flooding Relief FY 2021, District 7

Estimated cost: \$75K

#### **Project Description:**

The existing pond located at the intersection of 46th Street and Bougainvillea Avenue does not have an outfall. The pond overflows and floods the adjacent properties and streets after heavy rainfalls. The proposed project will provide an outfall for the pond to alleviate the flooding. Project includes the installation of control structure for the pond with pipes connecting it to the existing system on Bougainvillea Avenue.



# **NTCB - 21st and Annie Pond**

#### Flooding Relief/Water Quality Improvements FY2021; District 7

Estimated cost: \$90K

#### **Project Description:**

The N. 21<sup>st</sup> Street and E. Annie Street area is located within the North Tampa Closed Basin. This area experiences frequent flooding due to inadequate conveyance system and lack of positive outfall. The proposed project will provide stormwater storage volume and improve local stormwater collection and conveyance system to alleviate the flooding by constructing a new stormwater pond and new pipes/inlets connecting to the pond.



# **Howard & North B Street Flooding Relief**

#### Flooding Relief FY 2021; District 4&5

Estimated cost: \$75K

#### **Project Description**

Localized flooding occurs frequently in the area. The proposed project will alleviate the flooding. The project consists of construction of new pipes and inlets and regrading of the roadway as needed.



# **36th Street from Osborne to Palifox**

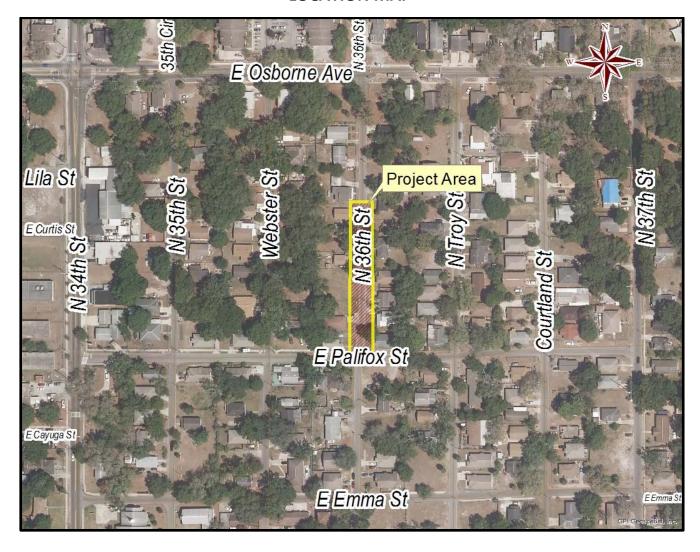
#### Flooding Relief FY 2021; District 5

Estimated cost: \$90K

#### **Project Description:**

Low-lying areas of 36th Street between Osborne Avenue and Palifox Street experience frequent flooding. The proposed project consists of construction of new inlets and pipes connecting to the existing drainage system on Palifox Street to alleviate flooding.

#### **LOCATION MAP**



# **Webster Street from Osborne to Palifox**

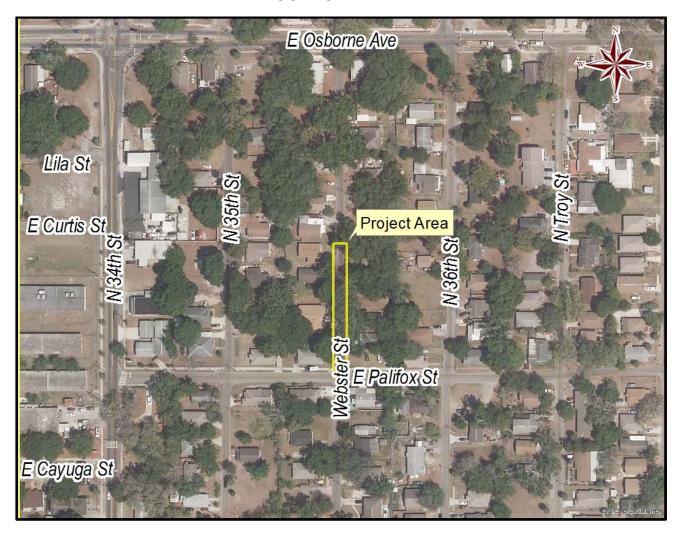
#### Flooding Relief FY 2021; District 5

Estimated cost: \$90K

#### **Project Description:**

Low-lying areas of Webster Street between Osborne Avenue and Palifox Street experience frequent flooding. The proposed project consists of construction of new inlets and pipes connecting to the existing drainage system on Palifox Street to alleviate flooding.

#### **LOCATION MAP**



# **Troy Street from Osborne to Palifox**

#### Flooding Relief FY 2021; District 5

Estimated cost: \$90K

#### **Project Description:**

Low-lying areas of Troy Street between Osborne Avenue and Palifox Street experience frequent flooding. The proposed project consists of construction of new pipes and inlets connecting to the existing drainage system on Palifox Street to alleviate flooding.

#### **LOCATION MAP**



#### NTCB - 17th Street and Annona Avenue Flooding Relief

Flooding Relief FY 2021; District 7

Estimated cost: \$75K

#### **Project Description:**

The low-lying area of 17<sup>th</sup> Street and Annona Avenue intersection experiences frequent flooding due to lack of drainage system. The project consists of construction of new inlets and pipes connecting to the existing system to alleviate the flooding.

#### **Project Map & Photo:**



# **NTCB - Elmer Pond Expansion**

# Flooding Relief/Water Quality Improvements FY 2021; District 7 Estimated cost: \$50K

#### **Project Description:**

Elmer pond area is located within the North Tampa Closed Basin. This area experiences frequent flooding due to inadequate drainage system. The proposed project will alleviate the flooding in the area by expanding the existing pond on the recently acquired properties adjacent to the pond to provide additional stormwater storage capacity. The project includes property acquisition and pond construction.

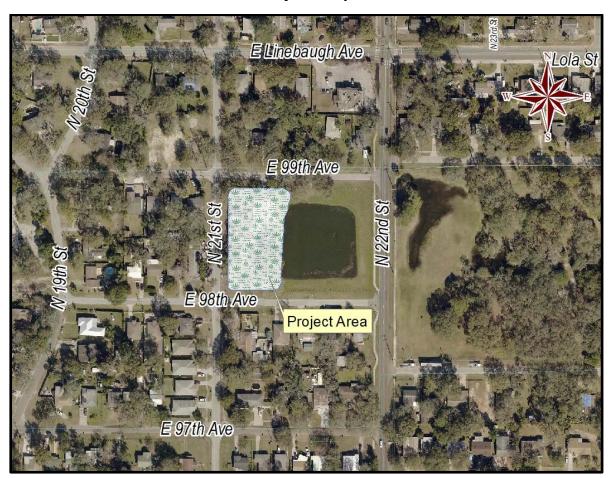


# NTCB - 99th Avenue Pond Expansion

# Flooding Relief/Water Quality Improvements FY 2021; District 7 Estimated cost: \$50K

#### **Project Description:**

The current 99<sup>th</sup> Avenue Pond area is located within the North Tampa Closed Basin. This area experiences frequent flooding due to inadequate drainage system. The proposed project will expand the existing pond on the recently acquired properties adjacent to the existing pond to provide additional storage capacity for the area. The project includes property acquisition and pond construction.



# 22<sup>nd</sup> St. & McBerry St. Flooding Relief

#### Flooding Relief FY 2021; District 5

Estimated cost: \$75K

#### **Project Description:**

Low-lying areas of 22<sup>nd</sup> St. and McBerry St. experience frequent flooding due to lack of drainage system. The proposed project consists of construction of new inlets and pipes connecting to the existing drainage system on 24<sup>th</sup> St. to alleviate flooding.



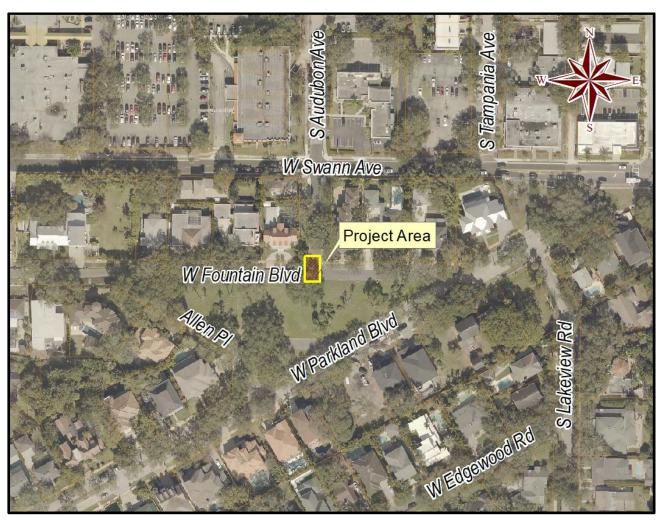
# Parkland Estates: Audubon & Fountain Flooding Relief

#### Flooding Relief FY 2020; District 4

Estimated cost: \$50K

#### **Project Description:**

Audubon Ave. and Fountain Blvd intersection area has been experiencing frequent flooding due to inadequate inlet capacity. The proposed project consists of replacing aging inlets and construction of new inlets to alleviate flooding.



# **2<sup>nd</sup> Street from Wyoming to Interbay**

#### Flooding Relief; District 4

Estimated cost: \$50K

#### **Project Description:**

The existing ditch/culvert system in the area has been compromised by discontinuous driveway culverts and inadequate system on Interbay Blvd. The proposed project will upgrade the drainage system on 2nd St. and provide a connection to box culvert at 3rd St to improve drainage.

#### **Project Map and Photo**



# Clark Ave. at Fair Oaks Ave.

#### Flooding Relief; District 4

Estimated cost: \$95K

#### **Project Description:**

Low-lying areas on S Clark Ave. between Fair Oaks Ave. and Lawn Ave. experience frequent flooding due to failed pipes connecting the ditch and inadequate drainage inlets in the area. The proposed project consists of replacing the failed pipes and construction of new pipes and inlets to alleviate the flooding situation.



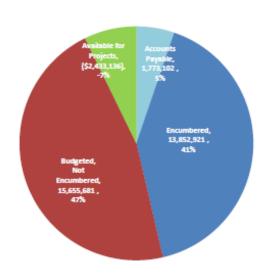


# Section B Stormwater Capital Improvement Bond Program Report

#### City of Tampa Budget Office Stormwater Assessment Revenue Bonds, Series 2018 As of December 31, 2020

#### **Available Funding for Projects:**

Bond Proceeds	97,782,033.00
Underwriters & Other Fees	(706,444)
Bank Note Refunding	(26,220,000)
Transfer to Capital Project Fund	70,855,589
Amount Expended to Date	(46,095,828)
Accounts Payable	1,773,102
Unused Fees and Interest Earnings	(2,418,709)
Appropriation of Earned Interest	4,734,414
Remaining Bond Proceeds	28,848,568
Accounts Payable	1.773.102
Encumbered	13,852,921
Budgeted, Not Encumbered	15,655,681
(4)	
Available for Projects (1)	(\$2,433,136)



#### Spend-Down Schedule:

6 Months (10/26/2018)	10%	\$7,493,329
12 Months (04/26/2019)	45%	\$33,719,982
18 Months (10/26/2019)	75%	\$56,199,970
24 Months (04/26/2020)	100%	\$74,933,293
Percentage Spent - December 2020 Bond Issuance Date		<b>62%</b> 4/26/2018

Interest Earning Rate 0.14% Bond Yield Rate 1.60%

#### Project Details:

Project Name	Project Number	Budget	Actuals	Encumbrance	Balance
43rd Street Outfall Regional Drainage Improv Ph III	1000151	\$5,244,182	4,447,624	793,528	3,031
Upper Peninsula Flooding Relief, Ph. II - Vasconia	1000178	3,880,115	3,850,062	20,510	9,543
Orchid Sink Rehabilitation	1000384	513,086	508,586	0	4,500
Watrous Ditch Rehabilitation	1000386	90,604	60,581	0	30,023
30th Street Outfall	1000580	28,794	28,794	0	0
Box Culvert Rehabilitation	1000581	950,822	848,301	0	102,521
Howard Avenue Flooding Relief Swann to Jetton	1000749	776,903	404,049	371,888	967
Lower Peninsula Watershed Plan	1000750	1,907,978	952,240	923,907	31,831
Ditch Rehabilitation	1000751	130,259	107,849	0	22,410
Southeast Seminole Heights Flood Relief	1000773	11.503.253	1.875.913	474,560	9.152.780

Project Name	Project Number	Budget	Actuals	Encumbrance	Balance
Upper Peninsula Watershed Drainage Improvement	1001017	16,210,926	16,255,073	231,591	-275,738
Cypress Street Outfall Regional Stormwater	1001018	16,719,297	8,678,588	8,040,103	606
Hamilton Creek Water Quality Improvements	1001169	500,041	78,605	70,921	350,515
ST FY17 Annual CIPP Rehabilitation	1001151	496,970	0	0	496,970
Lamb Canal Rehabilitation	1001171	1,500,058	107,329	132,199	1,260,530
North Tampa Closed Basins FY2018 - FY2022	1001173	4,463,061	3,875,751	318,016	269,294
Failed Pipe CIPP FY2018 - FY2022	1001175	2,168,405	1,736,615	325,835	105,956
In House Flooding Relief/Failed Pipe Replacement	1001176	817,885	531,888	36,456	249,541
Consultants and Land Acquisition FY2018 - FY2022	1001218	1,053,221	691,473	13,736	348,012
Annual Contract-Copeland Park	1001370	685,000	0	591,016	93,984
Annual Contract-Anita Sub PH2	1001371	1,410,058	31,264	1,225,848	152,946
In House Flooding Relief - 45th Street North of Hillsborough	1001406	240,018	229,649	8,726	1,643
In House Flooding Relief - Rambla Street	1001428	100,000	36,247	1,703	62,050
West Saint Isabel from Gomez to Habana Flooding Relief	1001437	125,000	19,236	104,880	884
Virginia Ave Pumping Station Drainage Improvements	1001597	207,536	19,272	52,883	135,381
Delaware, Oregon, and Dakota Groundwater Diversion	1001948	1,300,000	0	0	1,300,000
.El Portal & Newport Pumping Station	1001951	200,000	0	114,616	85,384
Salaries for CIP (2)	0000000	687,402	687,402	0	0
Reserve (2)	0000000	955,542	0	0	955,542
Cost Allocation Stormwater (2)	0900007	66,876	33,438	0	33,438
Grand Total <sup>(2)</sup>		\$74,933,293	\$46,095,828	\$13,852,921	\$14,984,544

<sup>(1)</sup> Available balance from unused issuance cost budget and interest earnings.

<sup>&</sup>lt;sup>(7)</sup> Includes \$1,709,821 of anticipated interest earnings.



# Section C Stormwater Service Assessment Program Report

#### Tampa City Council Update No. 17 - March 2021

Maintenance activities are reported based on service level frequency. Below is a list of the primary maintenance categories that are being tracked. Along with service level cycle times, we have also provided maintenance statistics for the quarter.

Operations and Maintenance Activities	Pre Fee Service Levels	Fee Target Service Levels	1st Quarter FY21 & Year to Date Service Levels	
Ditches	10-Year Cycle	7-Year Cycle	8.7-Year Cycle (1st Qtr.) 7.7-Year Cycle (Y.T.D)	
Ponds	Minimal	3-Year Cycle	3-Year Cycle (1st Qtr.) 3-Year Cycle (Y.T.D)	
Pipes	10-Year Cycle	7-Year Cycle	6.1-Year Cycle (1st Qtr.) 6.3-Year Cycle (Y.T.D)	
Outfalls	15-Year Cycle	5-Year Cycle	N/A-Year Cycle (1st Qtr.) 4.7-Year Cycle (Y.T.D)	
Pumps	Low Preventative Maintenance	Annual Preventative Maintenance	1-Year Cycle	
Street Sweeping	90-Day Cycle	60-Day Cycle	48-Day Cycle (1st Qtr.) 54-Day Cycle (Y.T.D)	
Operations and Maintenance Activities	1st Quarter Maintenance Statistics			
Ditches	28,417 linear feet of ditches maintained with 2,579 tons removed, 72 fallen trees removed, 441,765 linear feet of ditch mowed monthly with 13.8 tons of trash removed.			
Ponds	4.7 tons of trash and illegal dumping have been disposed of, there have been 116 herbicide treatments to various ponds, 126 stormwater ponds mowed monthly. 7,253 linear feet of pond fencing replaced.			
Pipes	113,871 linear feet of storm drainage pipe inspected and maintained, 2,319 storm drain inlets and manholes inspected and maintained with 417 tons of debris removed.  38 cave-ins and 34 inlet tops repaired.			
Outfalls	Outfall inspections and maintenance were suspended due to high tides. Our year to date cycle of inspections and maintenance are still at an acceptable level.			
Pumps	Preventative Maintenance provided to all thirteen (13) stormwater pump stations.  Proactive maintenance and inspections totaled 328 Manhours.			
Street Sweeping	6,550 curb miles were swept, approximately 1,467 tons of debris removed.			

# Port Tampa Park



Before



After



**Before** 



After

# Fitzgerald Right-Of-Way Ditch



Before



After



**Before** 



After

# **Bayshore Outfall Cleaning**





Before





After





Before





After