

# Stormwater Major Capital Improvements Projects Report

## Tampa City Council Update No. 5 - January 25, 2018

The following five (5) Major Capital Improvement Projects are regional multi-year flood 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 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



## 1. Upper Peninsula Flooding Relief

(Dale Mabry Trunkline)
City Project #: 1001017

#### **Project Description:**

Upper Peninsula Regional Stormwater Improvements is a multi-year flood relief project covering approximately 3400 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.

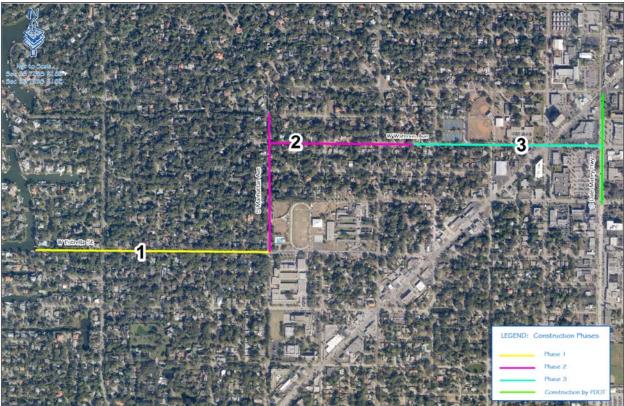
This project will alleviate the severe chronic flooding along Dale Mabry Highway between Henderson Blvd and Neptune Street. The highway is part of the primary evacuation route for South Tampa. Existing pipes will be connected to the trunkline thereby providing basin wide flooding relief.

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:**

Phase	Firm	Amount	mount Funding Source	Sche	dule
i nasc		, anounc		Start	Finish
Design/Build	Kimmins selected	\$37M	COT/SWFWMD	FY17	FY20

#### Timeline:

- Survey field work has been completed
- Geotechnical investigation has been completed
- Hydrologic/hydraulic modeling is completed
- Formal tree assessment is completed
- 30% plans have been completed
- 60% plans with GMP are expected in March



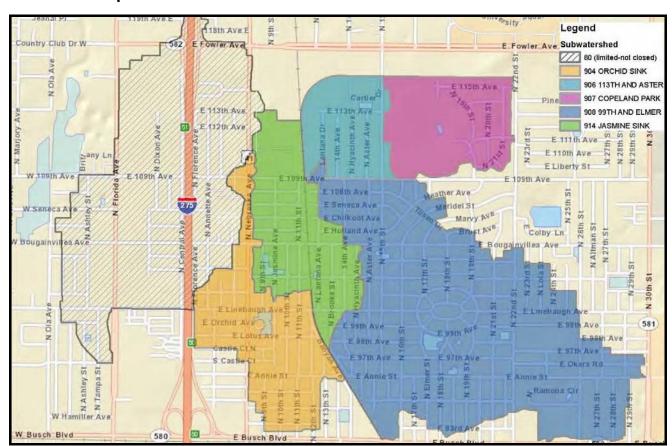
## 2. North Tampa Closed Basins Flooding Relief City Project #: 0000403

#### **Project Description:**

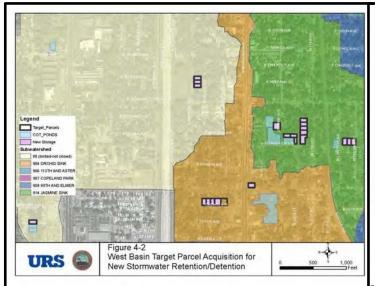
Portions of the northern part of the City of Tampa flood periodically due to their location within closed drainage basins and the absence of drainage infrastructure to provide relief. The North Tampa Closed Basins (NTCB) study area is generally bounded by Fowler Avenue on the north, 30th Street on the 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.

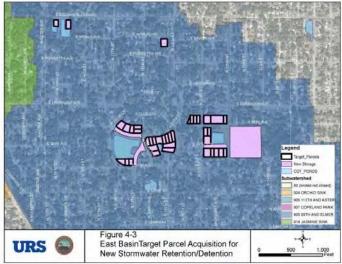
Based on a model and study of the closed basin area, properties are targeted for acquisition and will serve as future stormwater ponds. The project consists of property acquisition in the area experiencing the most severe flooding. Approximately 40 properties have been identified.

#### **Location Map:**



#### **Property Acquisition Maps:**





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

Phase	Firm	m Amount	Funding	Sche	dule
i nasc			Source	Start	Finish
Property Acquisition	In-House	\$1M/ Year	COT	FY16	FY20
Construction	In-House	\$2M	COT	FY20	FY 21

#### Timeline:

- The City of Tampa Real Estate Division is in the process of acquiring the properties as identified by Transportation and Stormwater Services Department's North Tampa Closed Basin Study.
- Property acquisition to be completed in FY20.
- Construction in FY20-FY21 with In-House Construction Crew.



## 3. Cypress Street Outfall Extension

**City Project #: 1001018** 

#### **Project Description:**

The drainage basin is generally bounded by Cypress Street 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 550 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 Blvd to Rome Ave. Another box culvert will connect at Cass and Rome Ave and run south towards Kennedy Blvd. The last leg will connect at Rome and W Gray St and extend west to N Tampania Ave. 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:**

Phase	Firm	Amount	Funding	Scho	edule
11100		7	Source	Start	Finish
Design/Build	* RFQ	\$30 M	COT/SWFWMD	FY17	FY20

#### Timeline:

- Design/build contractor Woodruff & Sons has been selected
- The GMP for the design & permitting is being negotiated
- Begin Design and Permitting in 2017
- Begin Construction in 2018

<sup>\*</sup> RFQ = Request for Qualifications



## 4. Southeast Seminole Heights Flooding Relief

**City Project #: TBD** 

#### **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 E Chelsea Street east of I-275 freeway to E Diana Street and easterly to N 18th Street. To the west of I-275, the basin narrows and extends from Giddens Avenue to E North Street. The Basin is part of a historic Tampa neighborhood that had its beginnings in the early 1900's.

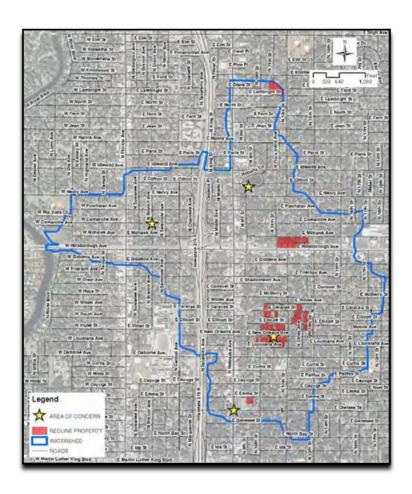
Southeast Seminole Heights Basin has numerous flooding locations, failing and undersized conveyance systems throughout the basin. A recent drainage study identified several potential stormwater improvement projects to alleviate flooding.

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:**



## **Areas of Flooding Concern:**



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

	Phase Firm Amount Funding Source		Schedule		
Phase	Firm	Amount	runuing Source	Start	Finish
Planning Study	LWES	\$90K	СОТ	FY16	FY16
Feasibility Study	FDC	\$45K	СОТ	FY17	FY18
Design & Construction	TBD	\$30M	COT/SWFWMD	FY19	FY23

#### Timeline:

- Design FY19, \$3M / \$1.5 each COT and SWFWMD
- Construction FY20, \$9M / Year for 3 Years
- Planning Study Completed in FY16
- Feasibility Study is underway
- Design and Construction Phase will begin in FY19



## 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 (SWFWMD) District for these improvements; therefore, the watershed study must meet SWFWMD's requirements for funding.

#### **Location Map:**



## **Summary of Project Costs:**

_		Funding Sche		dule	
Phase	Firm	Amount	Source	Start	Finish
Planning Study	Applied Sciences	\$650K	COT/SWFWMD	FY16	FY18
Feasibility study	* RFQ	\$200k	СОТ	FY18	FY18
Design	RFQ	\$3M	COT/SWFWMD	FY19	FY19
Construction	RFQ	\$10M/YR	COT/SWFWMD	FY20	FY27

#### Timeline:

- Planning Study 80% complete and to be completed in FY 2018
- Feasibility Study to be completed in FY18
- CCNA for Design of Phase 1 of 3 to occur FY19 through FY20
- Construction anticipated to start in FY21
- Construction anticipated to be completed in 2028

<sup>\*</sup> RFQ - Request for Qualifications



# 6. Miscellaneous Capital Improvement Project Status

**Tampa City Council Update No. 5 - Jan. 2018** 

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		

STATUS	DISTRICT	ESTIMATE
Projects Assigned to Construction Contracts	·	
1. Woodlyn at Parkland Flooding Relief	4	\$130,000
2. Knights between Lynwood and MacDill	4	\$200,000
3. Fairoaks and MacDill	4	\$100,000
4. Carrington at Everina	4	\$200,000
5. Howard Flooding Relief	4	\$200,000
6. Ardson Pl. & Palm Dr.	4	\$50,000
7. Palm Dr. East of Ysabella	4	\$50,000
8. Mary Sinkhole Rehabilitation	7	\$100,000

	Awarded – projects being scheduled		
9.	Swann Ave: Howard to Gomez flooding relief	4	\$400,000
10.	47 <sup>th</sup> and Frierson Pond PH II	5	\$660,000
11.	Howard: Swann to Morrison Flooding Relief	4	\$600,000
12.	2nd St.: Interbay to Bay	4	\$200,000
13.	Wyoming flooding relief PH II	4	\$325,000
14.	Anita Subdivision PH I Drainage Improvements	4	\$540,000
<b>15.</b>	4218 Riverside Dr. Pipe Relocation	6	\$100,000
16.	Annual CIPP Rehabilitation	Citywide	\$400,000
<b>17.</b>	Annual Box Culvert Rehabilitation	Citywide	\$650,000
18.	Orchid Sink Rehabilitation	6	\$500,000
19.	7th Ave. & 37th St. Flooding Relief	5	\$1,000,000

STATUS	DISTRICT	ESTIMATE
Projects Assigned to Transportation and Stormwater Services Department In-House Crew		
20. 2908 S Westshore Flooding Relief	4	\$100,000
21. Idell St. Roadway Improvements PH II	5	\$75,000
22. Forest Hills Pond at Lake Eckles	7	\$100,000
23. Wyoming Flooding Relief PH I	4	\$150,000
24. Concordia Pond	4	\$125,000
25. Virginia Park Ph3, Lois from Bay to Bay to Palmira	4	\$75,000
26. Virginia Park Ph3, Clark from Bay to Bay to Palmira	4	\$75,000
27. Hilda: North Blvd to Clearfield	6	\$50,000
28. New Orleans/11th St. Pond	5	\$100,000
29. Seneca Pump Station Site Improvements	7	\$100,000
30. Gomez Alley between Kennedy & North A	4	\$75,000
31. Binnicker at 4 <sup>th</sup> St.	4	\$50,000
32. Albany: Barclay to Marinana	7	\$100,000
33. Neptune/Treasure PID	6	\$75,000
34. 3911 Swann Ave.	6	\$50,000
35. 1510 W Park Ln.	6	\$50,000
36. Rambla Flooding Relief	7	\$100,000

Projects Bid through CAD		
37. 43rd Street Outfall Regional Drainage Improvements, PH III	5	\$5,000,000
38. 30th St. Outfall	5	\$600,000
39. Forest Hills Park Improvements	7	\$250,000
40. Robles Park Pump Station Replacement	5	\$1,200,000
41. Rogers Park Drainage Improvements	5	\$500,000
42. Poinsettia Pump Station Rehabilitation	7	\$1,400,000
43. Eastridge Pump Station Rehabilitation	7	\$700,000

## **Woodlyn at Parkand Flooding Relief**

## FY2017, District 4

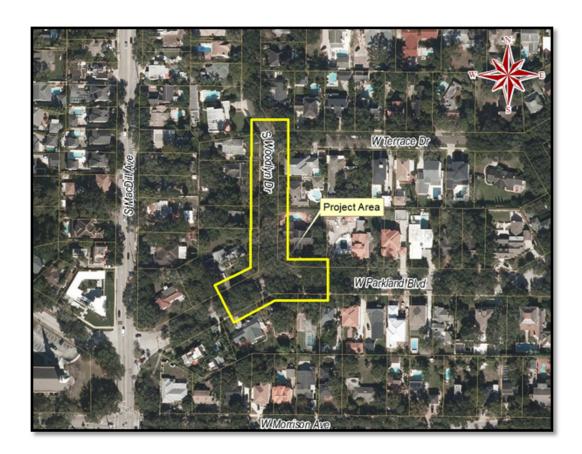
Estimated cost: \$130K

#### Project Description:

The project consists of removing some trees and re-contouring the roadway.

#### • Justification:

Flooding occurs at S Woodlyn Drive and Parkland Blvd due to improper grading and heaving of pavement caused by tree roots.



## **Knights Between Lynwood and MacDill**

## Flooding Relief FY2017, District 4

Estimated cost: \$200K

#### Project Description:

Install a stormwater collection system to drain the street.

#### • Justification:

Pavement grading and new development have affected the conveyance of runoff to the existing stormwater system.





## Fair Oaks and MacDill

#### Flooding Relief FY2017, District 4

Estimated cost: \$100K

#### • Project Description:

The proposed project consists of re-contouring of the existing pavement to improve conveyance of storm flows.

#### Justification:

This section of Fair Oaks Ave. has frequent flooding due to improper grading. This project will improve conveyance to relieve flooding.





## **Carrington at Everina**

## Flooding Relief FY2017, District 4

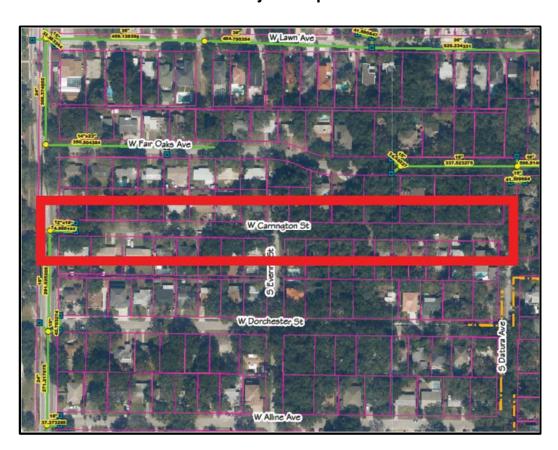
Estimated cost: \$200K

#### • Project Description:

The project consists of the regrading of the existing asphalt pavement to improve the drainage

#### Justification:

The project reduces the flooding affecting residential properties and roadways.



## **Howard Flooding Relief**

### FY 2017, District 4

Estimated cost: \$200K

#### • Project Description:

An inlet will be installed at the corner of Howard Ave. and Marjory Ave. Surface runoff will be pumped to an existing inlet at Watrous Ave. and Howard Ave. Project also includes resurfacing Howard Ave. to improve drainage.

#### Justification:

Flooding occurred at the intersection of Howard Ave. and Marjory Ave. due to inadequate drainage capacity. The proposed project will reduce the localized flooding.



## Ardson Pl. & Palm Dr.

### Flooding Relief FY2017, District 4

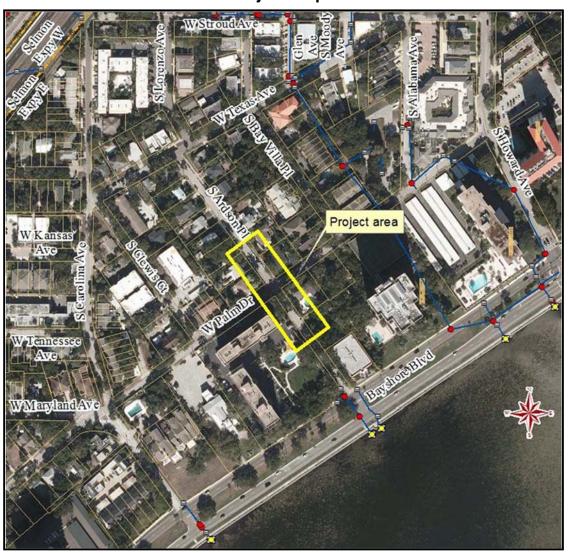
Estimated cost: \$50K

#### • Project Description:

The project consists of regrading of the roadway.

#### Justification:

This intersection experiences flooding due to improper grading. The project will improve conveyance to relieve localized flooding in the intersection.



## Palm Dr. East of Ysabella

## Flooding Relief FY2017, District 4

Estimated cost: \$50K

#### • Project Description:

Modifications to the existing surface water management system to improve the conveyance of runoff to the existing stormwater system.

#### Justification:

Frequent flooding from blocked drainage due to pavement overlays. Regrading and resurfacing will improve conveyance to relieve flooding.



## **Mary Sinkhole Rehabilitation**

#### Flooding Relief FY2017, District 7

Estimated cost: \$100K

#### • Project Description:

The project consists of replacing the failed 24-inch influent pipe, removing trash and debris from the sink, and stabilizing the embankment.

#### Justification:

Sinkhole currently is filled with debris and the influent pipe failed.

#### Related Issues:

Within the North Tampa Closed Basin



## **Swann Ave: Howard to Gomez Flooding Relief**

## **FY 2017, District 4**

Estimated cost: \$400K

#### • Project Description:

The project will construct a stormwater conveyance system to relieve the flooding on Swann Ave. from Gomez Ave. to Audubon Ave. in the vicinity of the Memorial Hospital.

#### Justification:

Flooding occurs along Swann Ave. between Gomez Ave. and Audubon Ave. This project will alleviate the localized flooding.



## 47<sup>th</sup> and Frierson Pond PH II

#### Flooding Relief FY2017, District 5

Estimated cost: \$660K

#### • Project Description:

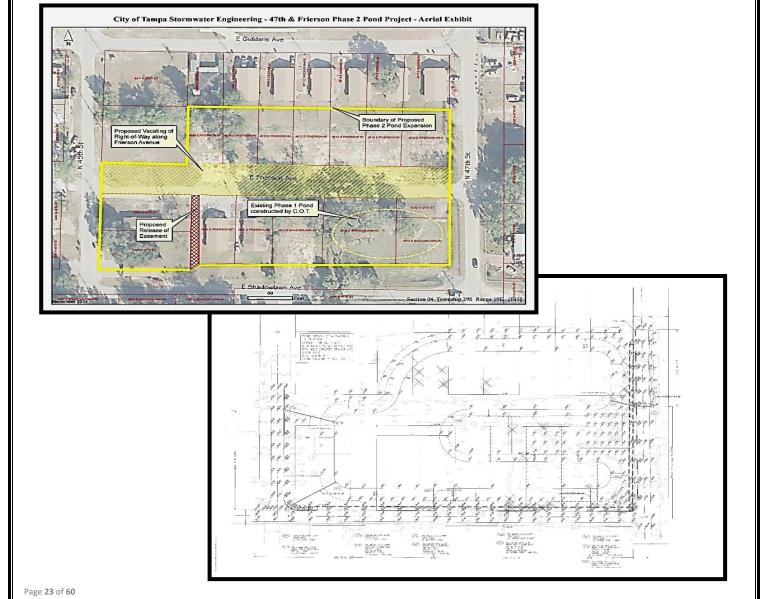
City has completed land acquisition phase and Frierson Ave will be completely vacated between 47th St and 45th St.

#### Justification:

Due to closed basin and lack of drainage system, the City will be expanding drainage capacity in the Frierson Ave & 47th Street area to help alleviate flooding problems. Besides pond expansion in Phase 2, roadway repaving and re-routing of water system will be part of the pond construction work.

#### Related Issues:

Existing pond built in phase 1 will be expanded in Phase 2.



## Howard: Swann to Morrison-Flooding Relief PH II

#### FY2017, District 4

Estimated cost: \$600K

#### Project Description:

Roadway re-grading from Morrison to Swann and potential construction of a surface water management system in coordination with roadway surfacing.

#### Justification:

Ponding occurs in the travel lanes due to poor grading associated with pavement overlay. The project is needed to convey runoff and relieve the ponding.

#### Related Issues:

Design and construction will be accomplished in coordination with the Transportation paving project.



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

#### Flooding Relief FY2017, District 4

Estimated cost: \$200K

#### • Project Description:

New Drainage system to be proposed along 2<sup>nd</sup> Street to connect to box culvert along W. Bay Ave.

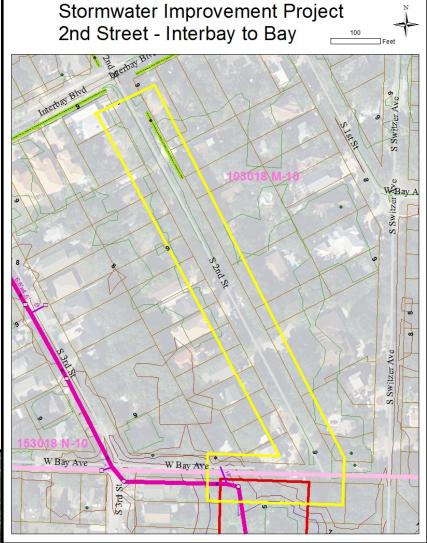
#### Justification:

Severe Street flooding along S 2<sup>nd</sup> Street between Interbay Blvd to W Bay Ave.

#### Related Issues:

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

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





## **Wyoming Flooding Relief PH II**

#### Flooding Relief FY2017, District 4

Estimated cost: \$325K

#### Project Description:

This project will upgrade the drainage system on 2<sup>nd</sup> St. and provide a connection to box culvert at 3<sup>rd</sup> St.

#### Justification:

Development in the vicinity of Wyoming/Bernie Avenue utilizes a system of drainage ditches to convey runoff to Interbay Blvd. The ditch system has been compromised by discontinuous driveway culverts and lack of system on Interbay Blvd.

#### Related Issues:

This project is a continuation of Wyoming/Trilby Phase I.





**Project photos** 



## **Anita Subdivision PH I Drainage Improvements**

#### Flooding Relief FY2020, District 4

Estimated cost: \$540K

#### • Project Description:

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:

This neighborhood was developed with ditches draining to a collection system that discharged the stormwater to a system on Westshore Blvd. Over the years the ditches have been filled and driveway culverts have been installed improperly.



## **4218 Riverside Dr. Pipe Relocation**

## FY 2017, District 6

Estimated cost: \$100K

#### Project Description:

The Project will replace/reroute the pipe under structure and the failing pipe.

#### • Justification:

Aging pipe under structure and failing pipe reported by residents in the area. The proposed project will enhance public safety and improve drainage in the area.



## **Annual C.I.P.P. Rehabilitation**

## FY2018, Citywide

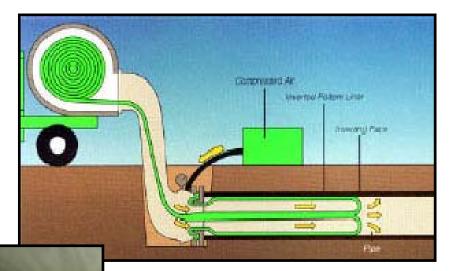
Estimated cost: \$400K

#### • 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.







## **Annual Box Culvert Rehabilitation**

#### FY2018; Citywide

Estimated cost: \$650K

#### • Project Description:

Create an annual contract to address the repairs in a timely fashion as they become evident.

#### Justification:

The City has numerous box culverts that are over 75 years old. These structures need remedial work to repair spalled concrete and joint leaks.

#### Related Issues:

Repair major culverts within roadways prior to resurfacing or rebuilding the roads.





**Project Photos** 

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## **Orchid Sink Rehabilitation**

#### Flooding Relief FY2018, District 6

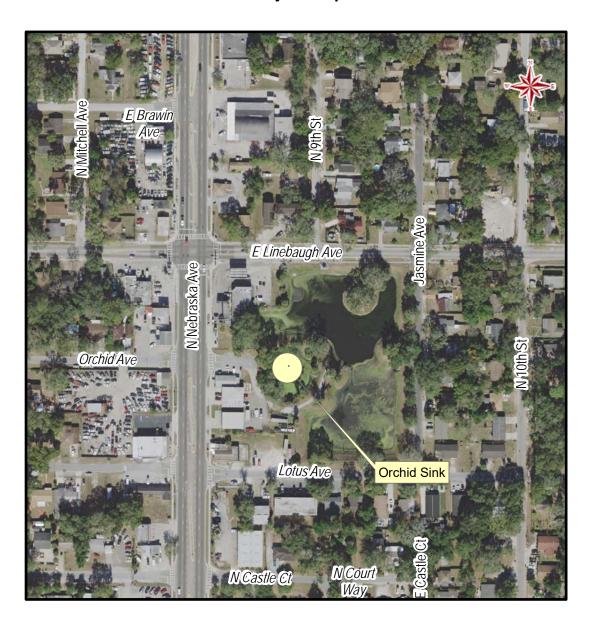
Estimated cost: \$500K

#### Project Description:

The project consists of removing trash and debris from the sink and stabilizing the embankment.

#### Justification:

Orchid sink, which serves as outfall for runoffs from the neighboring area, currently is clogged with trash and debris. This project will re-establish the sinkhole connectivity.



## 7<sup>th</sup> Ave. and 37<sup>th</sup> Street Flooding Relief

## FY2017, District 5

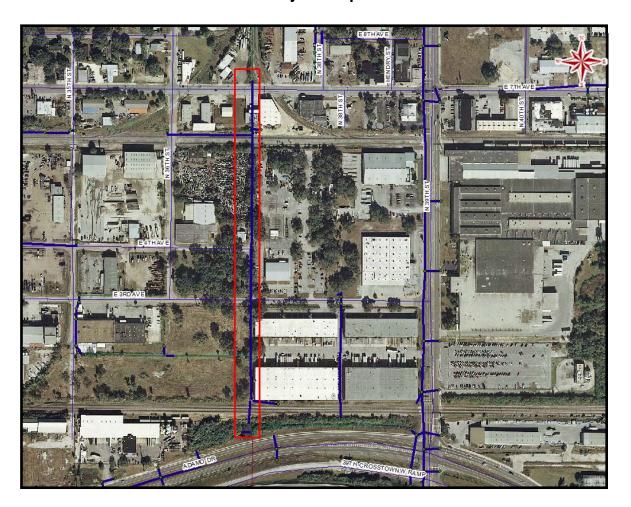
Estimated cost: \$1M

#### • Project Description:

The project consists of the removal of the existing 24" inch pipe from just north of 7<sup>th</sup> Avenue to the box culvert under Adamo Drive and replacing with a 48" inch or equivalent pipe.

#### Justification:

Chronic severe flooding occurs along 7<sup>th</sup> Avenue between 36<sup>th</sup> and 37<sup>th</sup> Street, affecting commercial properties and the roadway. The existing line is undersized for the contributing basin and has a diminished capacity due to root intrusion and cracks.



## **2908 S Westshore Flooding Relief**

#### Flooding Relief FY2017, District 4

Estimated cost: \$100K

#### • Project Description:

The project consists of installation of a trench drain system to alleviate flooding at a low lying area at 2908 S. Westshore.

#### Justification:

The location has inadequate surface water conveyance due to roadway super elevation resulting in

frequent yard and street flooding. The project is desirable because it will provide relief for localized flooding.







## **Idell St. 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 E. Mulberry.



## **Forest Hills Pond at Lake Eckles**

#### Flooding Relief FY2017, District 7

Estimated cost: \$100K

#### • Project Description:

Proposing drainage system in the ROW to provide conveyance of flood water to Lake Eckles.

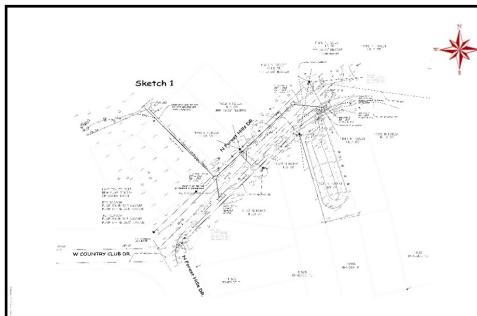
#### • Justification:

The surrounding street and the resident at 11513 N Forest Hills Drive has been experiencing flooding during rain events.

#### Related Issues:

The existing stormwater pump station has been completely rebuilt recently, which is the discharge

mechanism for Lake Eckles.



## **Project Design & Photo**



## **Wyoming Flooding Relief PH I**

#### Flooding Relief FY2017, District 4

Estimated cost: \$150K

#### • Project Description:

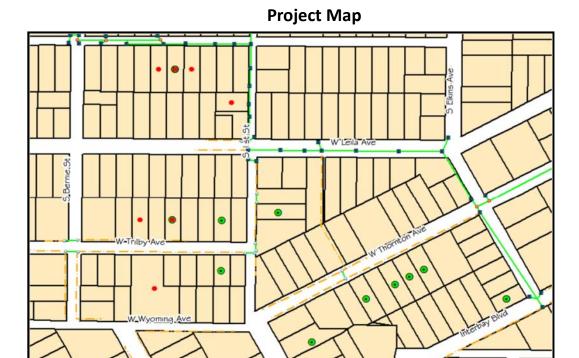
This project will evaluate the entire neighborhood and provide a solution to reduce flooding and convey water to existing system on Leila and Elkins Ave.

#### • Justification:

Development in the vicinity of Wyoming/Trilby/Thornton Avenue utilizes a system of drainage ditches to collect runoff. The ditch system has been compromised by roots of large trees and improper installation of culverts.

#### Related Issues:

This project will be phased over two years.





**Project Photos** 



# **Concordia Pond**

# Flooding Relief FY2017, District 4

Estimated cost: \$125K

## • Project Description:

Four parcels have been 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 corner of Concordia and Kensington experience flooding due to outdated drainage system.

#### Related Issues:

CSX drainage connection permit will be obtained before construction.







# Virginia Park PH3, Lois from Bay to Bay to Palmira

# Flooding Relief FY2017, District 4

Estimated cost: \$75K

## • Project Description:

The project consists of regrading of the roadway to improve drainage.

#### Justification:

Localized flooding occurs at intersections along S. Lois Ave. The proposed project will alleviate the flooding.



# Virginia Park PH3, Clark from Bay to Bay to Palmira

# Flooding Relief FY2017, District 4

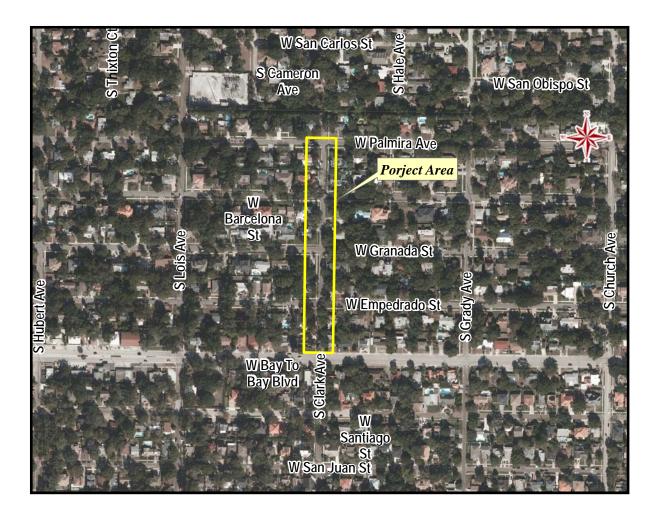
Estimated cost: \$75K

## • Project Description:

The project consists of regrading of the roadway to improve drainage.

#### • Justification:

Localized flooding occurs at intersections along S. Clark Ave. The proposed project will alleviate the flooding.



# **Hilda: North Blvd to Clearfield**

FY 2017, District 6

Estimated cost: \$50K

# Project Description:

New inlets and pipes will be installed and connected to the existing system on Clearfield Ave.

#### • Justification:

Flooding occurred on W Hilda St. between North Blvd and Clearfield Ave. due to inadequate drainage capacity. The proposed project will alleviate the localized flooding.



# New Orleans / 11<sup>th</sup> Street Pond

FY2017, District 5

Estimated cost: \$100K

## Project Description:

The project consists of the construction of a dry pond to retain runoff and alleviate flooding in the neighborhood.

#### Justification:

Frequent roadway flooding due to an existing low capacity system. The excess of runoff needs to be stored before the system can drain.

## **Project Map**



# **Project Photo**



# **Seneca Pump Station Site Improvements**

**FY 2017, District 7** 

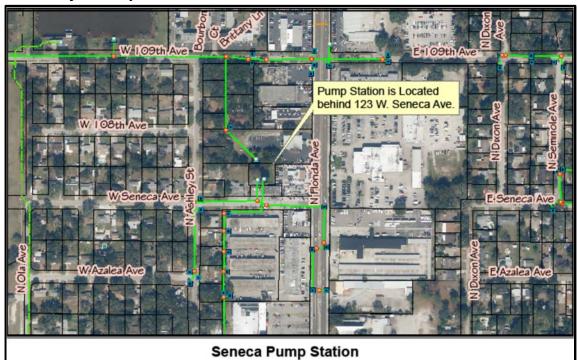
Estimated cost: \$100K

#### • Project Description:

This project will include constructing a new control structure on the existing outflow pipe, stabilizing the pond banks, and controlling erosion caused by runoff flow from adjacent properties.

#### Justification:

Seneca Pump Station was determined to be obsolete and unnecessary due to reconfigurations of the drainage system serviced by Curiosity Creek Pump Station. Under Phase 1, the pump station building and mechanical equipment were removed. The runoff accumulated in the Seneca pond will flow north to 109th Ave.





# Gomez Alley between Kennedy & North A.

# Flooding Relief FY2019, District 4

Estimated cost: \$75K

## • Project Description:

The project consists of construction of new inlets and pipes connecting to the existing drainage system on W North A Street and regrading of the roadway as needed.

#### Justification:

Localized flooding occurs in the low lying Gomez alley area. The proposed project will alleviate the flooding.



# Binnicker at 4<sup>th</sup> St.

# Flooding Relief FY2018, District 4

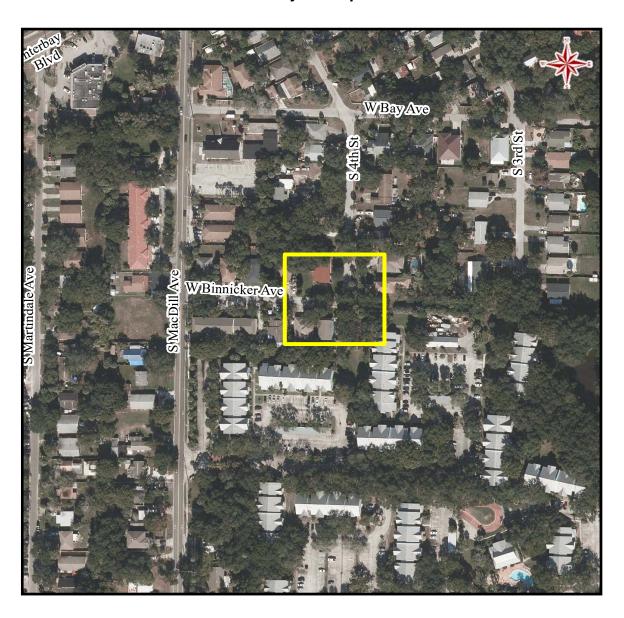
Estimated cost: \$50K

# 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 W Binnicker Ave and S 4th St. The proposed project will alleviate the flooding.



# **Albany: Barclay to Mariana**

# Flooding Relief FY2018 - CCC, District 7

Estimated cost: \$100K

## • Project Description:

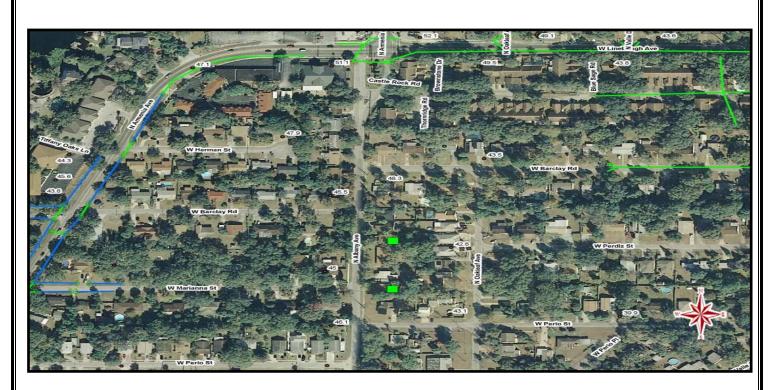
Evaluating Exfiltration trench option. Construction of approximately 1,100 of new pipe inlets to convey runoff to existing system in Barclay Avenue is option B.

Justification:

Roadway and yard flooding occurs along Albany St at Mariana St. The project will relieve flooding.

Related Issues:

Commitment letter sent for FY 2015.



# **Neptune/Treasure PID**

**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.



# **3911 Swann Ave.**

FY2018, District 6

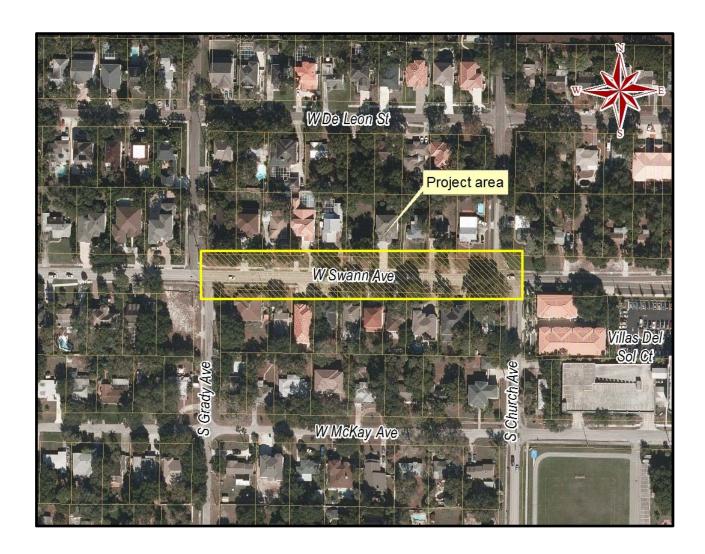
Estimated cost: \$50K

# • Project Description:

The proposed project consists of converting some existing manholes to inlets.

#### Justification:

Low lying areas on the street experience street and yard flooding. This project will alleviate the localized flooding.



# **1510 W Park PID**

# FY2017, District 6

Estimated cost: \$50K

# Project Description:

The proposed project will pipe in the existing ditch.

#### • Justification:

The ditch is eroded and had been repaired multiple times in the past. The proposed project will enhance public safety and reduce maintenance cost.



# **Rambla Flooding Relief**

FY2018, District 7

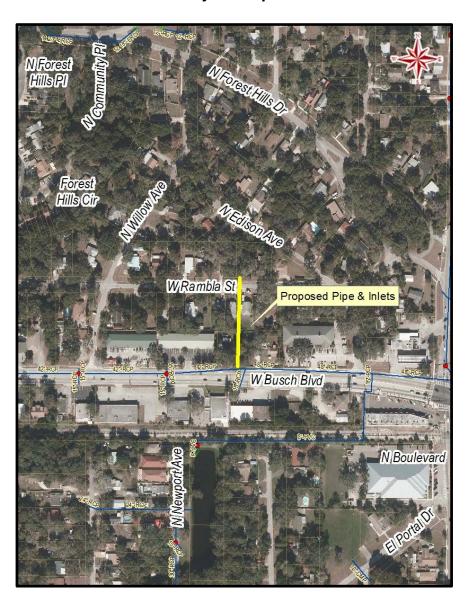
Estimated cost: \$100K

# Project Description:

The proposed project will consist of construction of new inlets and pipes connecting to the existing drainage system.

#### Justification:

Properties on Rambla St. between Edison Ave. and Willow Ave. experience chronic flooding. The project will alleviate the flooding in the area.



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

## Regional Drainage Improvement - FY2017, District 5

Estimated cost: \$5M (City Share \$2.5M)

#### Project Description:

The project consists of the construction of a 48-inch RCP pipe from the Phase 2 regional stormwater pond to the 43rd Street Outfall just upstream of McKay Bay. Additionally, a culvert upgrade will be constructed at the terminus of the 43rd 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 43rd Street Outfall. Phase 3 improvements provide additional flood relief for properties and roadways that are severely impacted.



# 30<sup>th</sup> Street Outfall

FY 2017, District 5

Estimated cost: \$600K

## • Project Description:

Stormwater has acquired the property on the east side of the outfall. The intent is to enlarge the discharge channel and, if necessary construct a larger outfall structure to accommodate future pipes.

#### Justification:

Existing 60-inch diameter stormwater pipe outfalls to Hillsborough River at 30th St., causing continual erosion of adjoining properties. City crews have installed rip-rap to fortify the banks, but erosion has persisted.

#### Related Issues:

Several stormwater pump stations utilize the existing outfall pipe and expanding the channel will allow for the extension of force mains directly to the river.



**Project Map** 





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# **Forest Hills Park Improvements**

# FY2017, District 7

Estimated cost of Stormwater Share: \$250K

#### 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. Parks and Rec 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 109th Ave., to convey emergency bypass flow, and to continue the piping system along the east side of the property to collect and convey runoff from 108th Ave. and Seneca Ave..

#### 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 is providing funding and assistance to relocate the low area.



# **Robles Park Pump Station Replacement**

FY2017, District 5

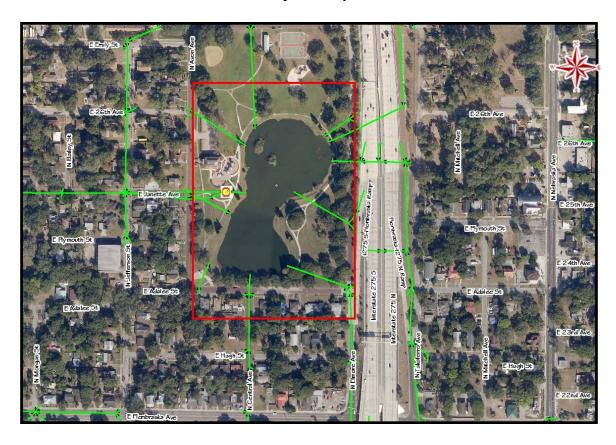
Estimated cost: \$1.20M

# Project Description:

Pump station will be replaced with more efficient pumping equipment.

#### Justification:

This is an aging facility with ongoing maintenance concerns. Older pump station needs rehab to improve flooding relief.



# **Rogers Park Drainage Improvement**

# Flooding Relief FY2018, District 5

Estimated cost: \$ 500K

#### Project Description:

The project consists of replacing/relocating the failed 24 inch pipe and construction of new inlets and new outfall to the river.

#### • Justification:

Recent TV inspection has shown several areas of failed pipe, cave-ins, and root intrusions. Current pipe location is inaccessible due to railroad spur.

#### Related Issues:

Need to coordinate with the Water Department's reconstruction of the railroad spur.



# Poinsettia P.S. Rehabilitation

# Flooding Relief FY2018, District 7

Estimated cost: \$1.4M

# • Project Description:

This project consists of removal of the failed hydraulically driven pumps and the installation of two new electric submersible pumps and motor controls. New pumps will match the existing flow and provide a more energy efficient system.

#### • Justification:

The Poinsettia Pump station was equipped in 1988 with hydraulically driven pumps and augmented with additional pumping capacity in 2005 and 2010. When the Donut Pond Pump Station was activated in 2015 upstream of this location, demand at this station was reduced.



# **Eastridge P.S Rehabilitation**

# Flooding Relief FY2018, District 7

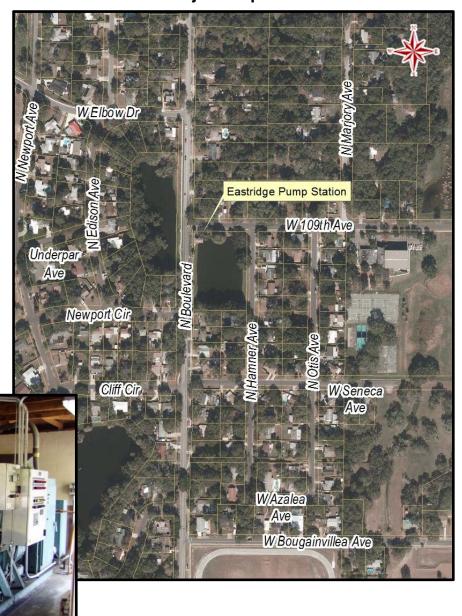
Estimated cost: \$700 K

## • 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 Pump Station was constructed in 1983 with a single hydraulically driven pump. Repairs and maintenance has increased in the past five years.





# FY 18 Stormwater Service Assessment Program Report

# **Tampa City Council Update No. 5 - January 2018**

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 FY18 & Year to Date Service Levels
Ditches	10-Year Cycle	7-Year Cycle	8.2-Year Cycle (1st Qtr.) 10.2-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	3.7-Year Cycle (1st Qtr.) 5.0-Year Cycle (Y.T.D)
Outfalls	15-Year Cycle	5-Year Cycle	5.8-Year Cycle (1st Qtr.) 2.1-Year Cycle (Y.T.D)
Pumps	Low Preventative Maintenance	Annual Preventative Maintenance	1-Year Cycle
Street Sweeping	90-Day Cycle	60-Day Cycle	44-Day Cycle (1st Qtr.) 45.4-Day Cycle (Y.T.D)
	1 <sup>st</sup> Quarter Maintenance Statistics		
Operations and Maintenance Activities		1st Quarter Maintenance Sta	tistics
Maintenance	24,858 linear feet of	1st Quarter Maintenance Sta ditches maintained with 5,332 ton of ditch mowed monthly	s removed, 441,765 linear feet
Maintenance Activities	559.81 tons of trash	ditches maintained with 5,332 ton	s removed, 441,765 linear feet sposed of, there have been 10 activities were conducted, 123
Maintenance Activities Ditches	559.81 tons of trash herbicide treatment 240,116 linear feet of	ditches maintained with 5,332 ton of ditch mowed monthly a and illegal dumping have been dis to various ponds, no harvesting a	s removed, 441,765 linear feet sposed of, there have been 10 activities were conducted, 123 anthly maintained, 3,220 storm drain
Maintenance Activities  Ditches  Ponds	559.81 tons of trash herbicide treatment 240,116 linear feet of inlets and manhol	ditches maintained with 5,332 ton of ditch mowed monthly a and illegal dumping have been dis to various ponds, no harvesting a stormwater ponds mowed mo of storm drain pipe inspected and r	s removed, 441,765 linear feet sposed of, there have been 10 activities were conducted, 123 onthly maintained, 3,220 storm drain 408 tons of debris removed.
Maintenance Activities  Ditches  Ponds  Pipes	559.81 tons of trash herbicide treatment  240,116 linear feet of inlets and manhol  23 outfalls maintain	ditches maintained with 5,332 ton of ditch mowed monthly and illegal dumping have been dis to various ponds, no harvesting a stormwater ponds mowed mo of storm drain pipe inspected and r es inspected and maintained with a	s removed, 441,765 linear feet sposed of, there have been 10 activities were conducted, 123 bothly maintained, 3,220 storm drain 408 tons of debris removed. and 280 tons of debris removed ght (8) of the thirteen (13)

# **West Peninsula Outfall Cleaning**





After

# Outfall Cleaning – S. Westshore from W. San Miguel to W. Heron Ln.



Before



After

# 10<sup>th</sup> Avenue Ditch Grading



Before



After