



Stormwater Projects / Program Report

Tampa City Council Update

No. 20 - December 2, 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.

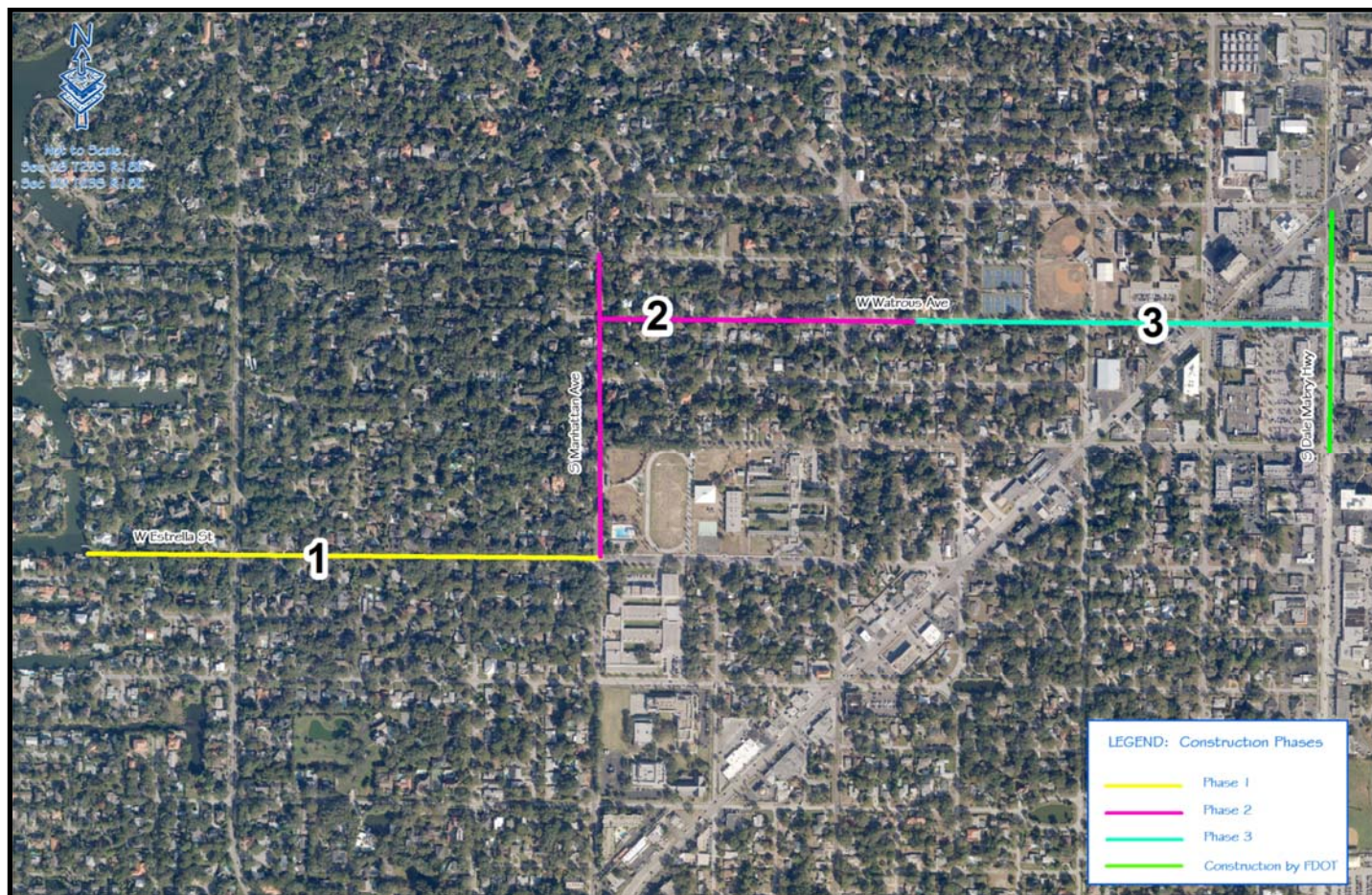
Project List CIP = \$251,285,000

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

Dale Mabry Trunkline Project Phases



Summary of Project Costs:

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

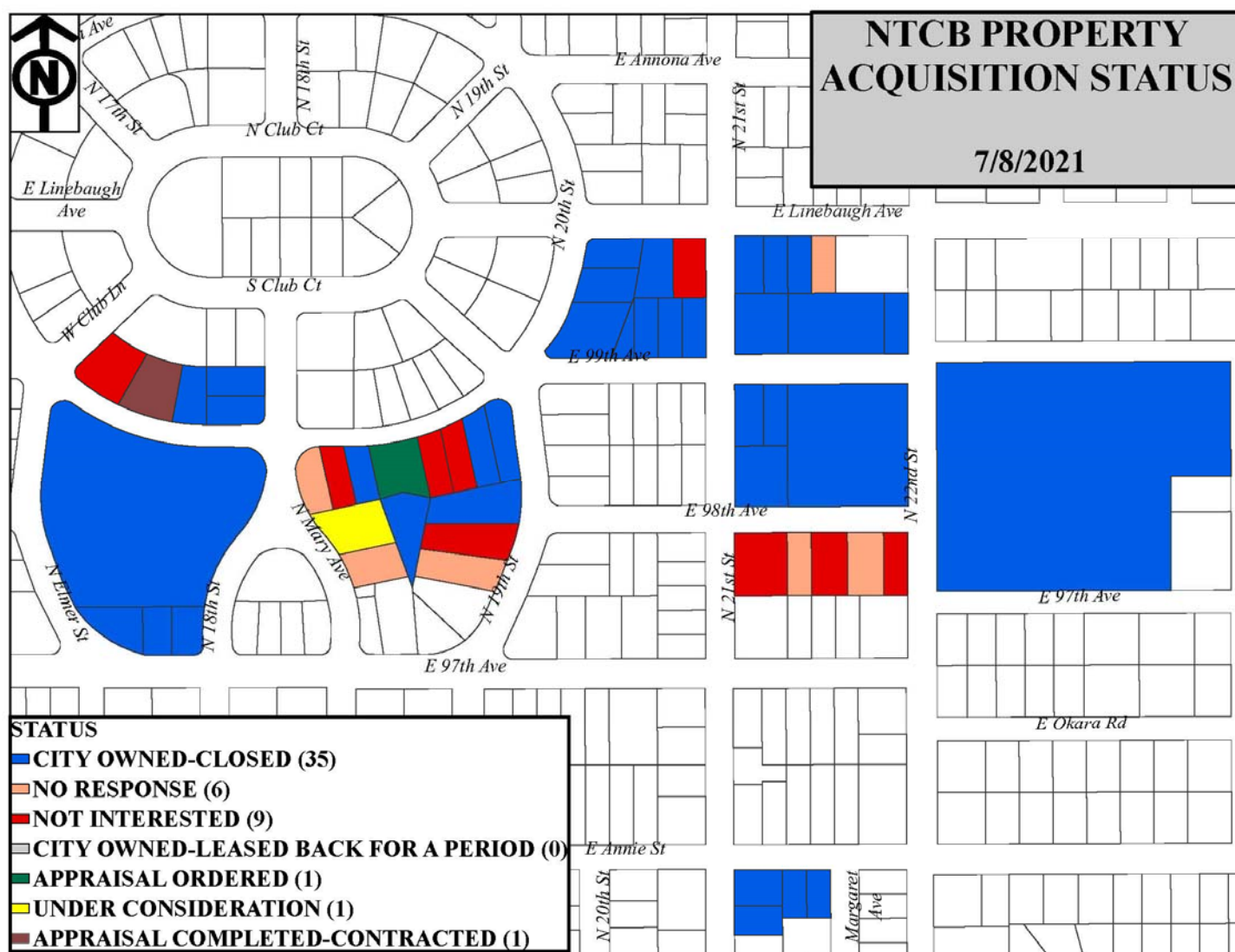
Timeline:

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



City Project #: 0000403

Property Acquisition Map:



Summary of Project Costs:

Phase	Firm	Amount	Funding Source	Schedule	
				Start	Finish
Property Acquisition	In-House	\$1M/ Year	COT	FY16	FY22
Construction	In-House/bid	\$2M	COT	FY19	FY23

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 is ongoing.
- The construction of David E. West pond and piping system is completed.
- Annie pond is in the construction phase.
- Several of the projects are in the design phase.



3. Cypress Street Outfall Extension

City Project #: 1001018

Project Description:

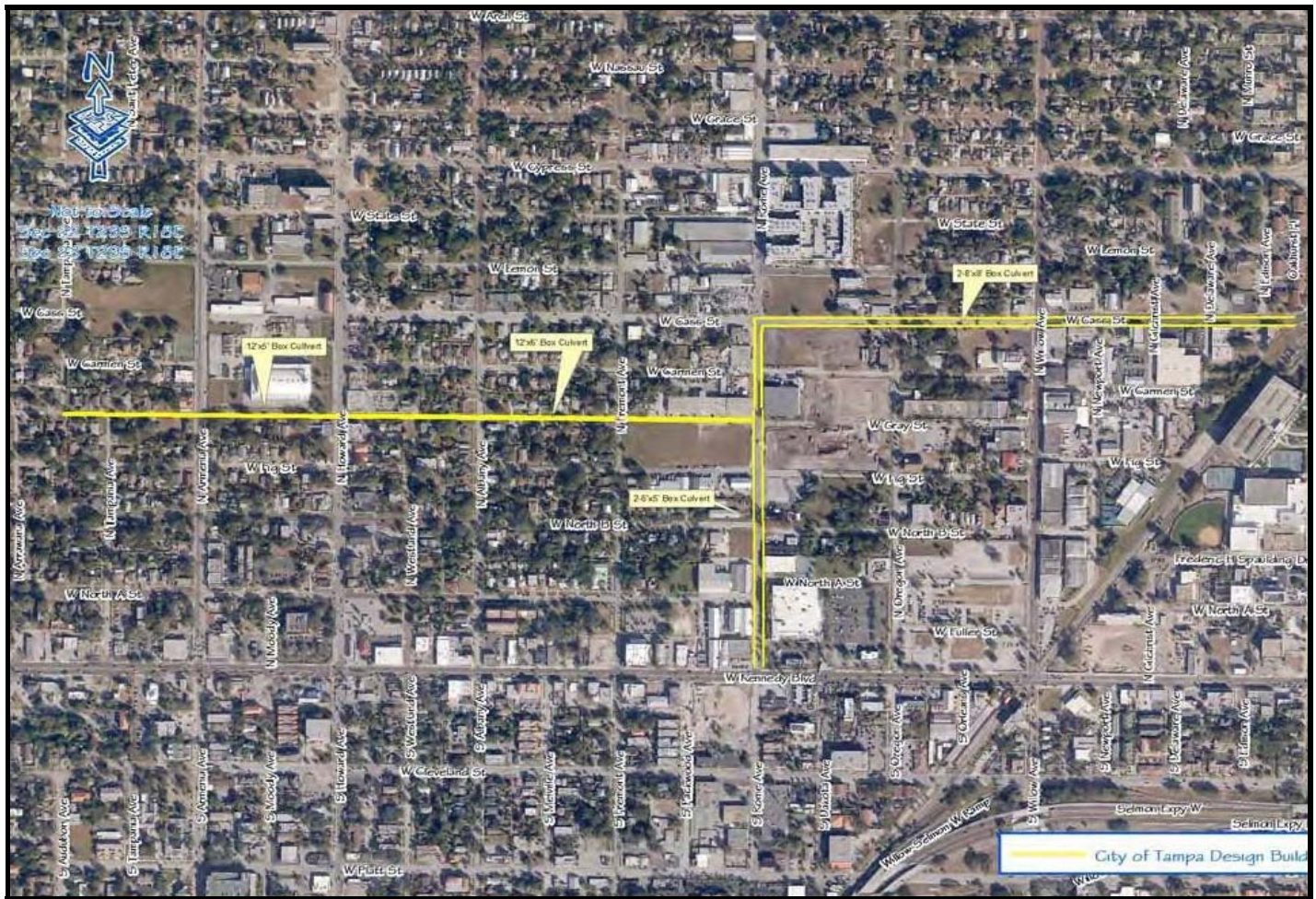
The drainage basin is generally bounded by Interstate 275 on the north, Habana Avenue on the west, Hyde Park Avenue on the east and Swann Avenue on the south. The total basin area is approximately 860 acres and outfalls to the Hillsborough Bay. Several areas within the northern portion of the basin (north 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:

Phase	Firm	Amount	Funding Source	Schedule	
				Start	Finish
Design/Build	Woodruff & Sons	\$32 M	COT/SWFWM	FY17	FY22

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 date of December 2021.



4. Southeast Seminole Heights Flooding Relief

City Project #: 1000773

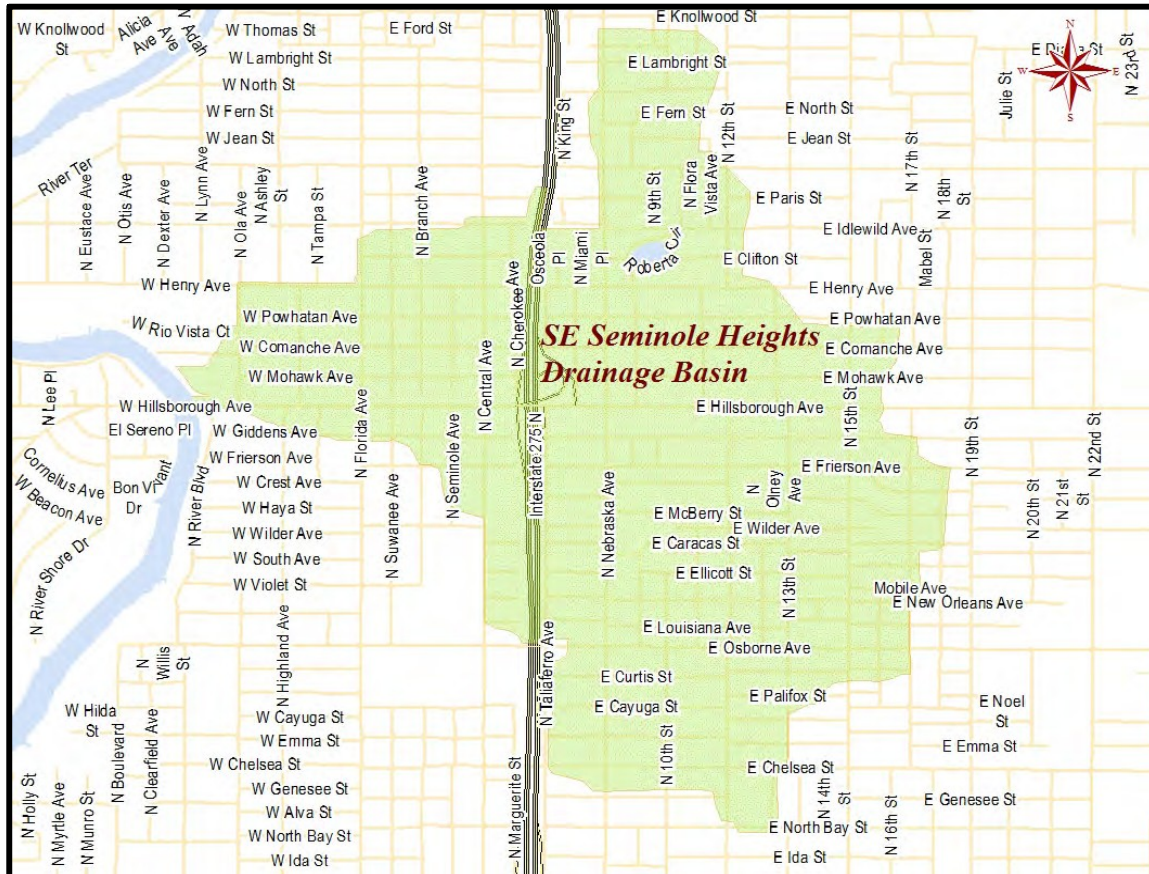
Project Description:

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.

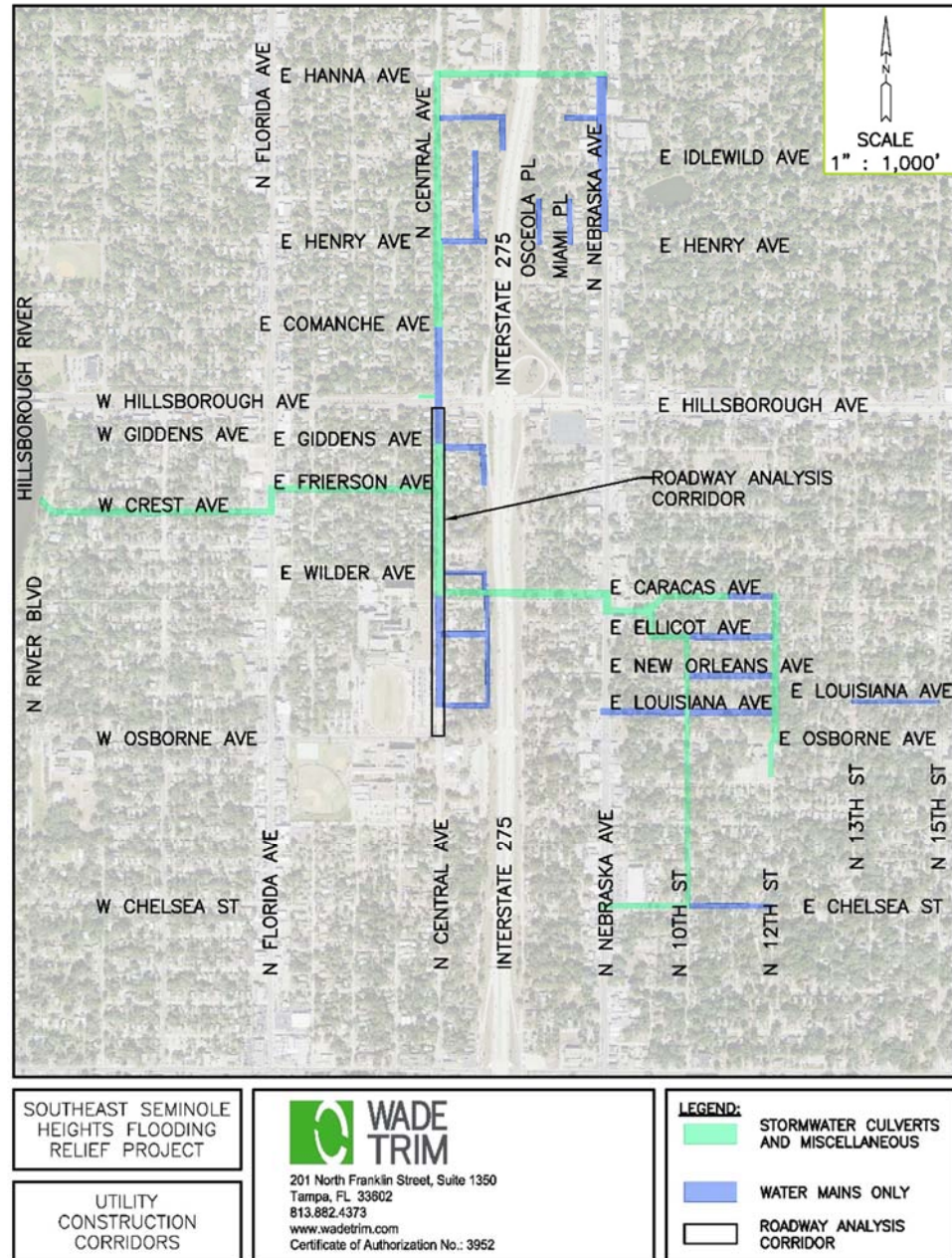
Southeast Seminole Heights Basin has numerous flooding locations, failing and undersized conveyance systems throughout the basin. A recent drainage study identified several potential stormwater improvement projects to alleviate flooding.

A feasibility study was 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	Amount	Funding Source	Schedule	
				Start	Finish
Planning Study	LWES	\$90K	COT	FY16	FY16
Feasibility Study	FDC	\$45K	COT	FY17	FY18
Design & Construction	Nelson/ Wade Trim	\$32M	COT/SFWWMD	FY19	FY24

Timeline:

- The Planning and Feasibility studies are complete.
- The design is 100% complete.
- The SFWWMD Governing Board approved the GMP in July 2021.
- The construction started in November 2021.



5. Lower Peninsula Flooding Relief

City Project #: 1000178

Project Description:

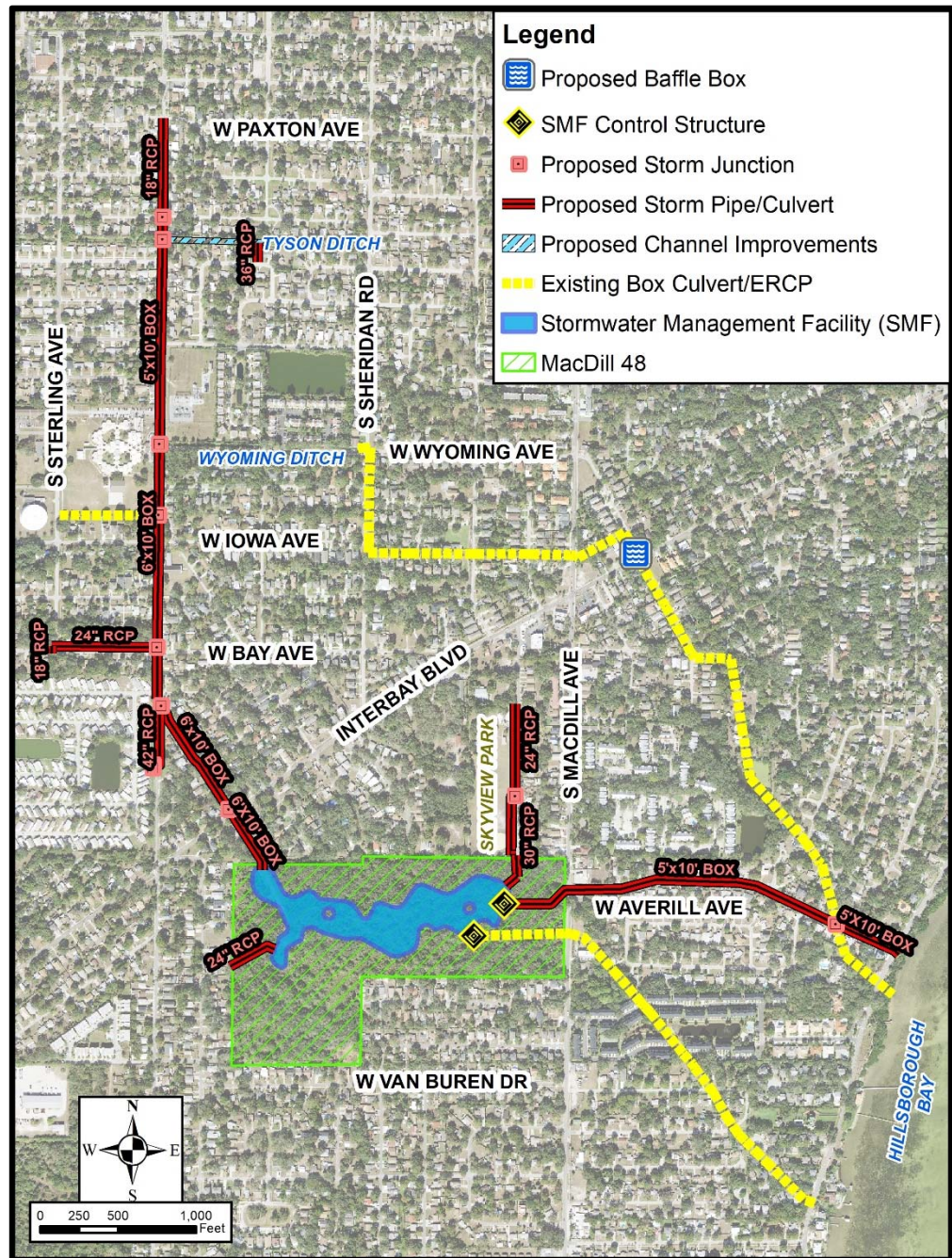
The Lower Peninsula Watershed (LPW) encompasses an area of approximately 8.6 square-miles (5,508 acres) in the City of Tampa. The watershed is located on the southern end of the peninsula between Old Tampa Bay and Hillsborough Bay. There are numerous flooding locations, failing and undersized conveyance systems throughout the watershed.

A watershed management plan was developed in 2019 to provide a baseline for capital improvement planning and design that provides conceptual solutions to frequent flooding in the region. The management plan has identified several capital improvement projects. The City of Tampa is actively pursuing cooperative funding from the South West Florida Water Management District (SWFWMD) for these improvements.

Watershed Location Map



Lower Peninsula Watershed Southeast Region Improvements



Summary of Project Costs:

Phase	Firm	Amount	Funding Source	Schedule	
				Start	Finish
Planning Study	Applied Sciences	\$650K	COT/SWFWMD	FY16	FY18
Southeast Region Design	Atkins	\$4M	COT/SWFWMD	FY20	FY22
Southeast Region Construction	Kimmins	\$40M	COT/SWFWMD	FY22	FY25

Timeline:

- The existing and proposed condition models are complete.
- The Southeast Region Design/Permitting is 80% complete.
- FCT approval is being pursued.
- The target date for the start of construction is FY22.



Phase	Firm	Amount	Funding Source	Schedule	
				Start	Finish
LPW Planning Study	Applied Sciences	\$650K	COT/SWFWMD	FY16	FY18
Property Acquisition	City of Tampa	\$8M	COT/SWFWMD	FY22	FY24
Design	RFQ	\$3M	COT/SWFWMD	FY25	FY25
Construction	Bid	\$31M	COT/SWFWMD	FY26	FY27

Lower Peninsula Watershed Central Region Improvements



Summary of Project Costs:

Phase	Firm	Amount	Funding Source	Schedule	
				Start	Finish
LPW Planning Study	Applied Sciences	\$650K	COT/SWFWMD	FY16	FY18
Property Acquisition	City of Tampa	\$9M	COT/SWFWMD	FY24	FY26
Design	City of Tampa	\$100K	COT/SWFWMD	FY26	FY26
Construction	Bid	\$1M	COT/SWFWMD	FY27	FY27



6. Miscellaneous Capital Improvement

Project Status

Tampa City Council Update No. 20 - December 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. Perry and Woodlawn Groundwater Diversion	6	\$100,000

Projects Bid through CAD		
3. 2nd Street from Interbay to Bay	4	\$200,000
4. FY21 Annual CIPP Rehabilitation	Citywide	\$500,000
5. David E. West Park Pond Enhancements	7	\$1,000,000
6. 43rd Street Outfall Regional Drainage Improvements, PH III	5	\$7,200,000
7. Eastridge Pumping Station Rehabilitation	7	\$700,000
8. Anita Subdivision Drainage Improvements PH II	4	\$600,000
9. 56th Street and Broadway Avenue Flooding Relief	5	\$2,000,000
10. Lamb Canal Rehabilitation	4	\$7,000,000
11. Ditch Rehabilitation Program	Citywide	\$1,000,000
12. Hyde Park Groundwater Diversion Ph 2 (Newport, Willow, Orleans and Watrous)	4	\$2,000,000
13. Beach Park Flooding Relief	6	\$1,000,000
14. Manhattan: Vasconia to Bay to Bay Flooding Relief	4	\$7,500,000
15. Annual Box Culvert Rehabilitation	Citywide	\$3,000,000
16. Golf View Flooding Relief	4	\$8,000,000

CAPITAL IMPROVEMENT PROJECTS	DISTRICT	ESTIMATE
Job Order Contracting		
17. Copeland Park Pumping Station	7	\$200,000
18. Lantana/Poinsettia Pumping Station	7	\$200,000
19. El Portal & Newport Pumping Station	6	\$325,000

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. Howard and North B St. Flooding Relief	4&5	\$75,000
30. NTCB - 17 th & Annona Flooding Relief	7	\$75,000
31. NTCB - 21st & Annie Pond	7	\$90,000
32. NTCB - Elmer Pond Expansion	7	\$50,000
33. NTCB - 99th Ave. Pond Expansion	7	\$50,000
34. 22nd St. & McBerry St. Flooding Relief	5	\$75,000
35. Parkland Estates: Audubon & Fountain	4	\$50,000
36. 2nd St. from Wyoming to Interbay	4	\$50,000
37. Clark & Fair Oaks	4	\$95,000
38. Church & Fair Oaks	4	\$25,000
39. Franklin: Henderson to Estelle	5	\$75,000
40. Krental Pond	4	\$25,000

Copeland Park Force Main

Flooding Relief FY2018; District 7

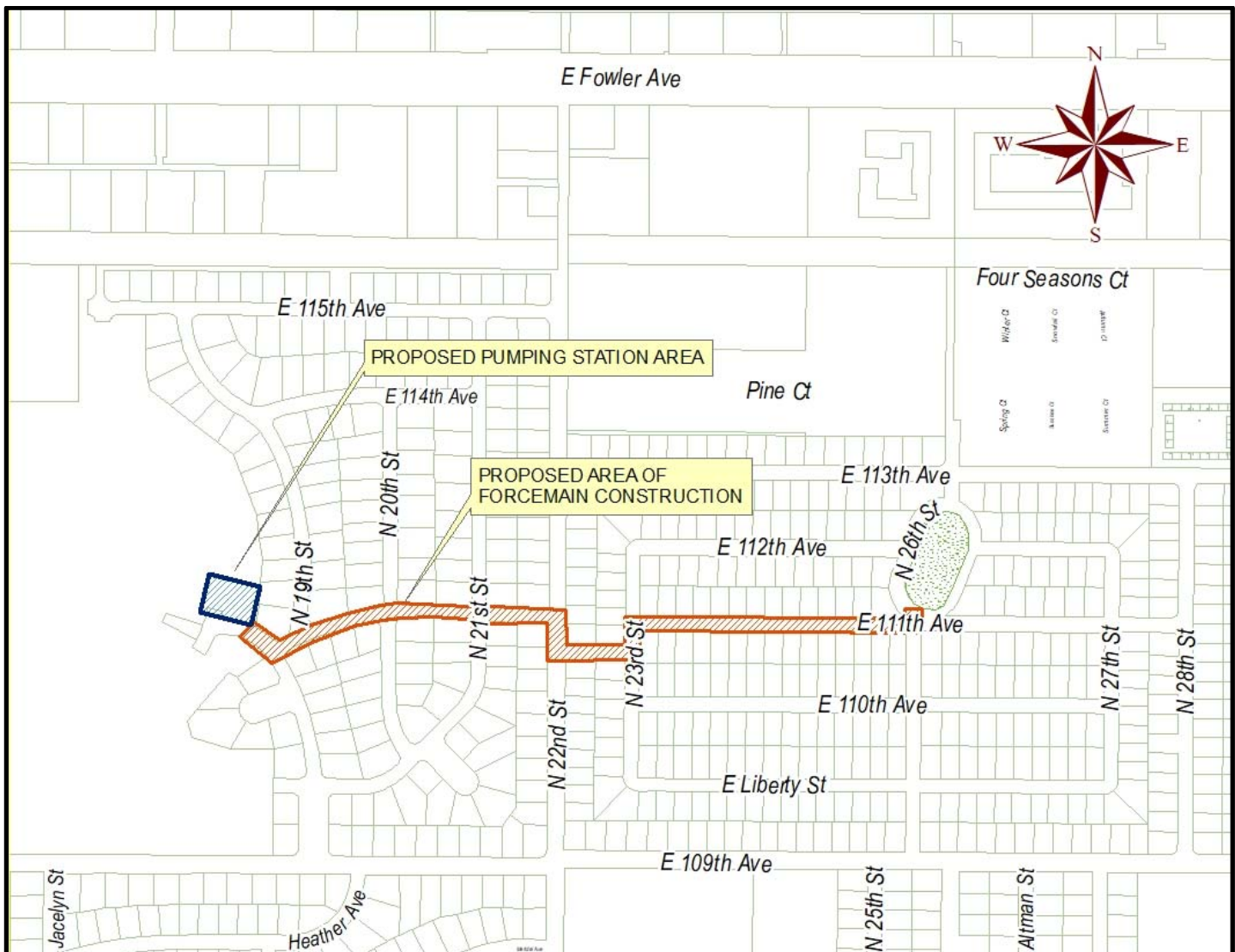
Estimated cost: \$600K

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 111th Ave. and N 26th St. area.

Project Map



Perry and Woodlawn

Groundwater Diversion; District 6

Estimated cost: \$100k

Project Description

The active groundwater seepage in this area makes roadway surface restoration impossible. The scope of the proposed project is to install an underdrain system to divert ground water flow. The new underdrain system will be connected to the existing ditch along Perry Ave for discharge to the Hillsborough River.

Project Map



2nd Street from Interbay to Bay

Flooding Relief FY2017, District 4

Estimated cost: \$200K

Project Description:

New drainage system to be proposed along 2nd Street to connect to box culvert along West Bay Avenue.

Justification:

Severe Street flooding along South 2nd Street from Interbay Boulevard to West Bay Avenue.

Related Issues:

South 2nd Street dead ends before West Bay Avenue. Easement may be required to connect to existing box culvert along West Bay Avenue.

Project Map & Photo



FY21 Annual CIPP Rehabilitation

Citywide

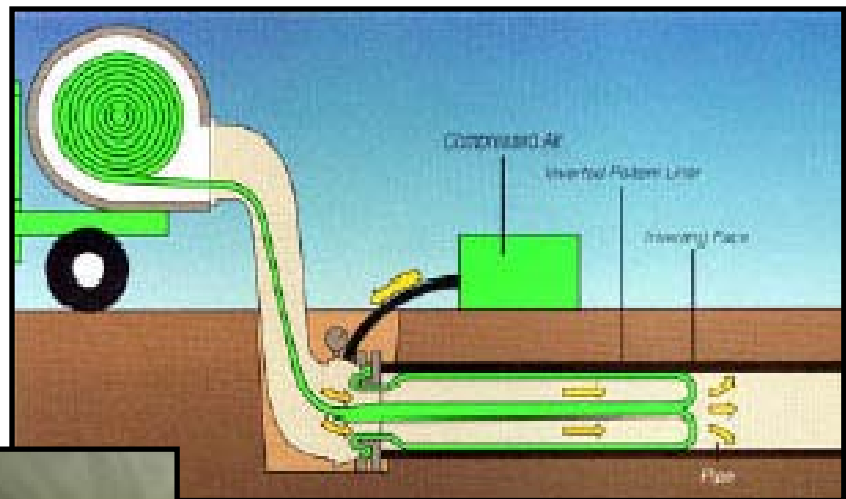
Estimated cost: \$500K

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.



Project Photos



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.

Project Map



43rd 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 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.

Project Map



Eastridge Pumping Station Rehabilitation

Flooding Relief FY2018, District 7

Estimated cost: \$700K

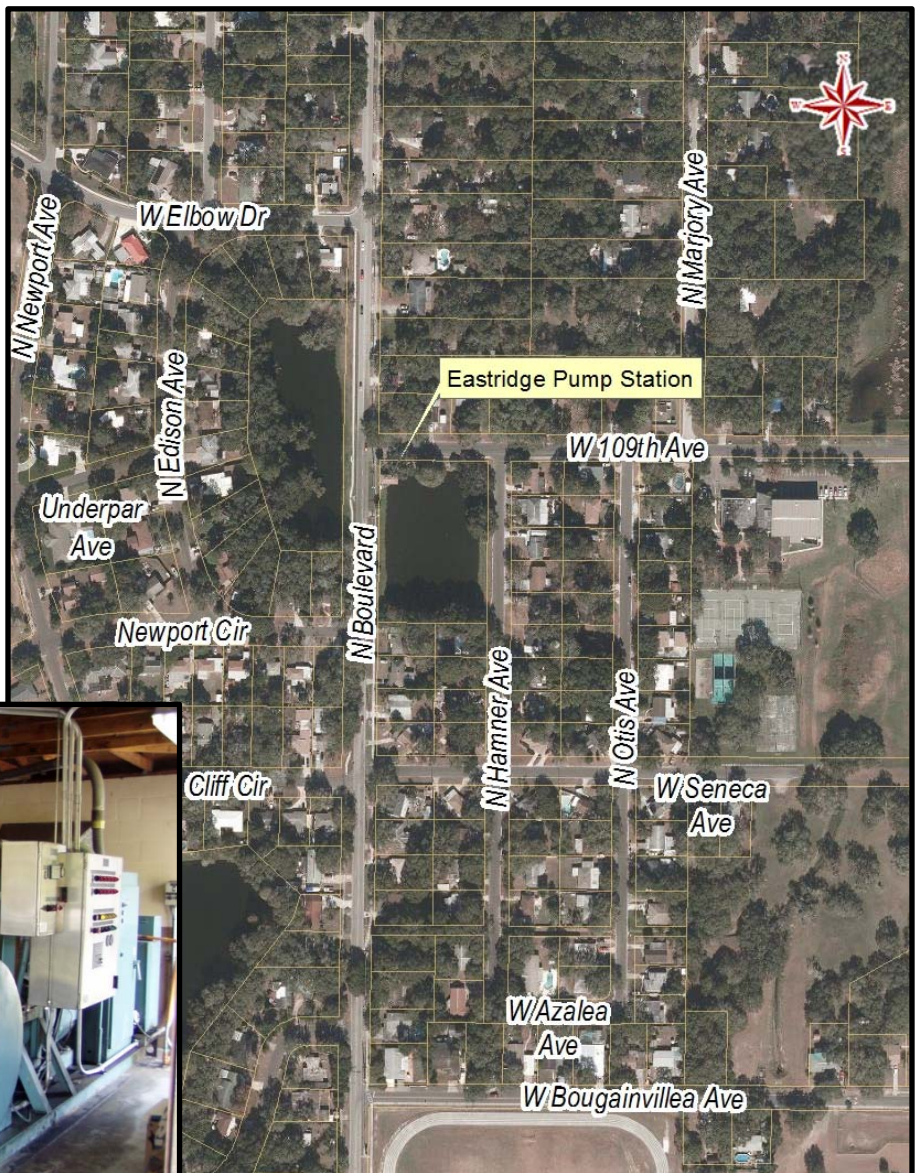
Project Description:

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 have 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.

Project Map



56th Street and Broadway Avenue Flooding Relief

Water Quality Improvement/Flooding Relief FY2019, District 5

Estimated cost: \$2M

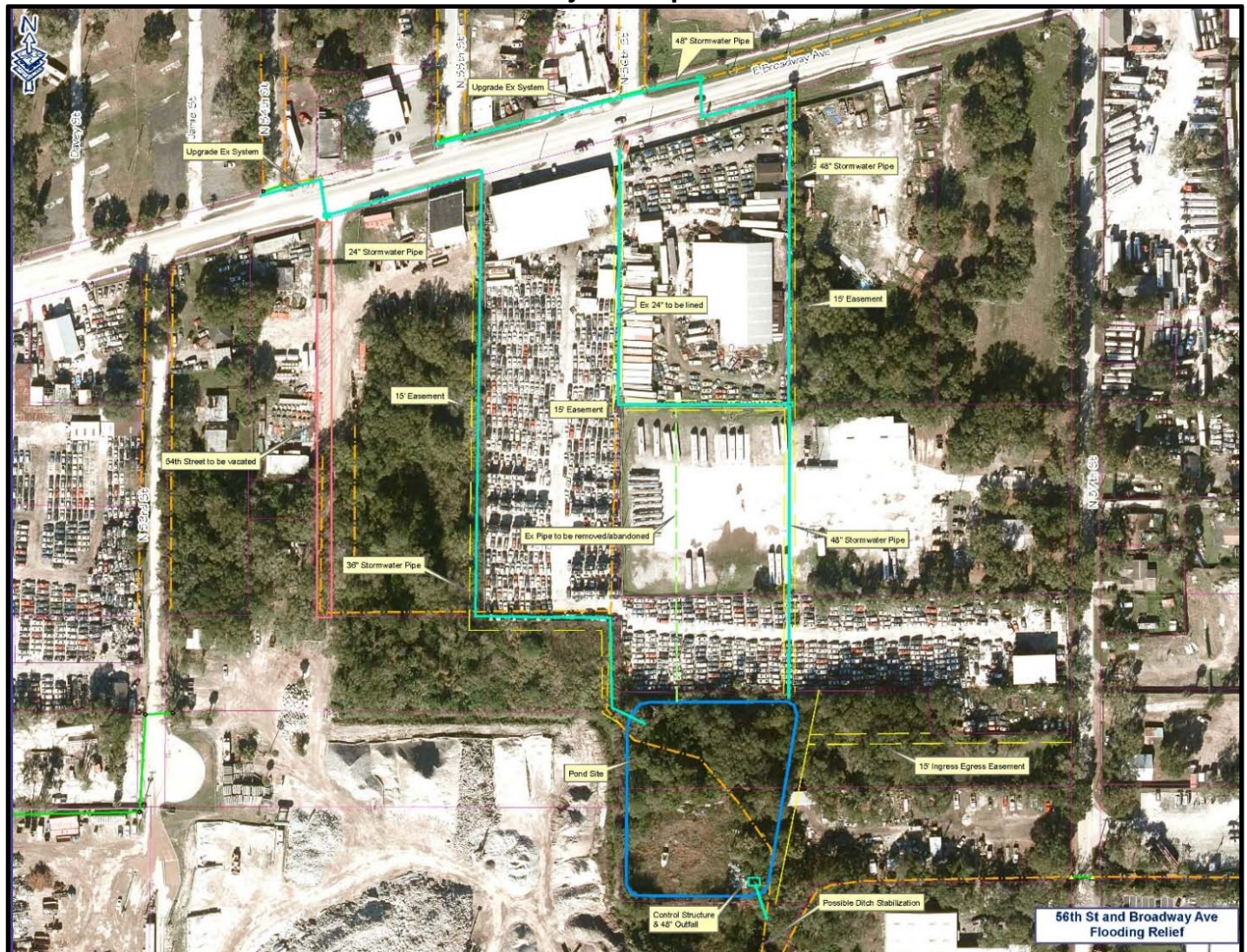
Project Description:

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.

Project Map



Lamb Canal Rehabilitation

Water Quality Improvement/Flooding Relief FY2019, District 4

Estimated cost: \$7M

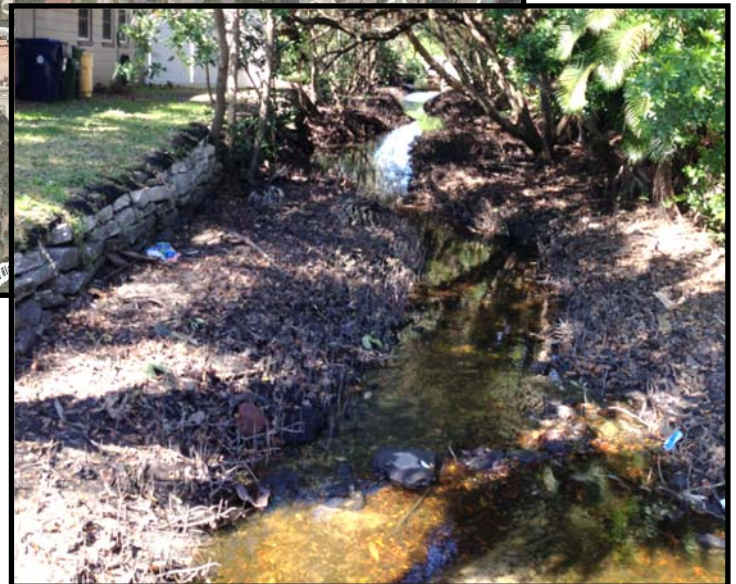
Project Description:

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:

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

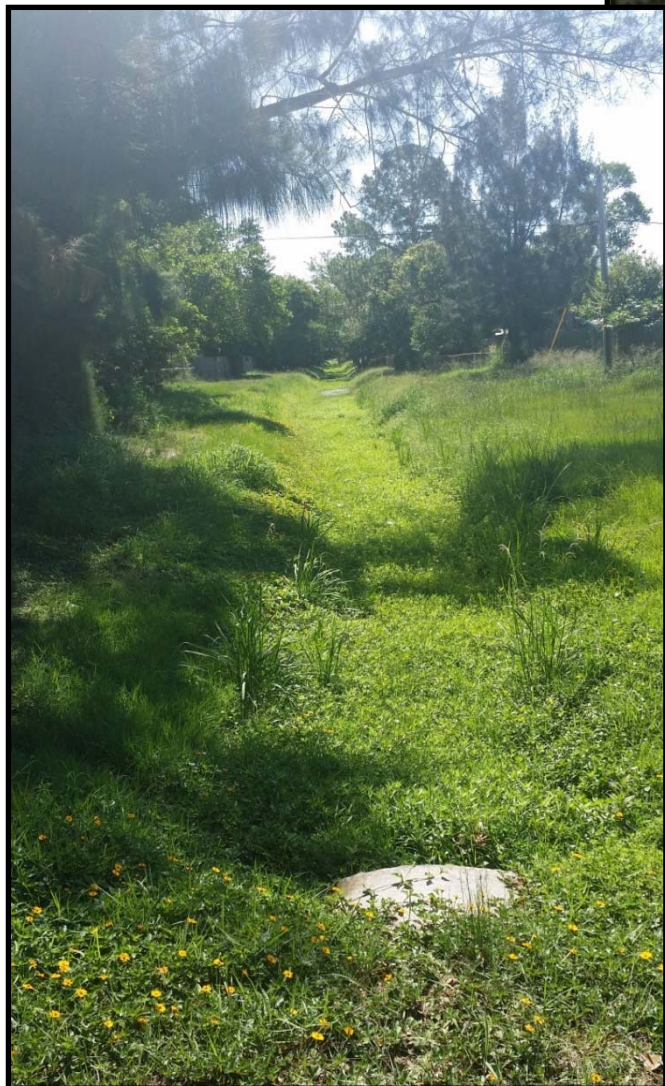
Estimated cost: \$1M

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

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

Groundwater Diversion FY2020; District 4

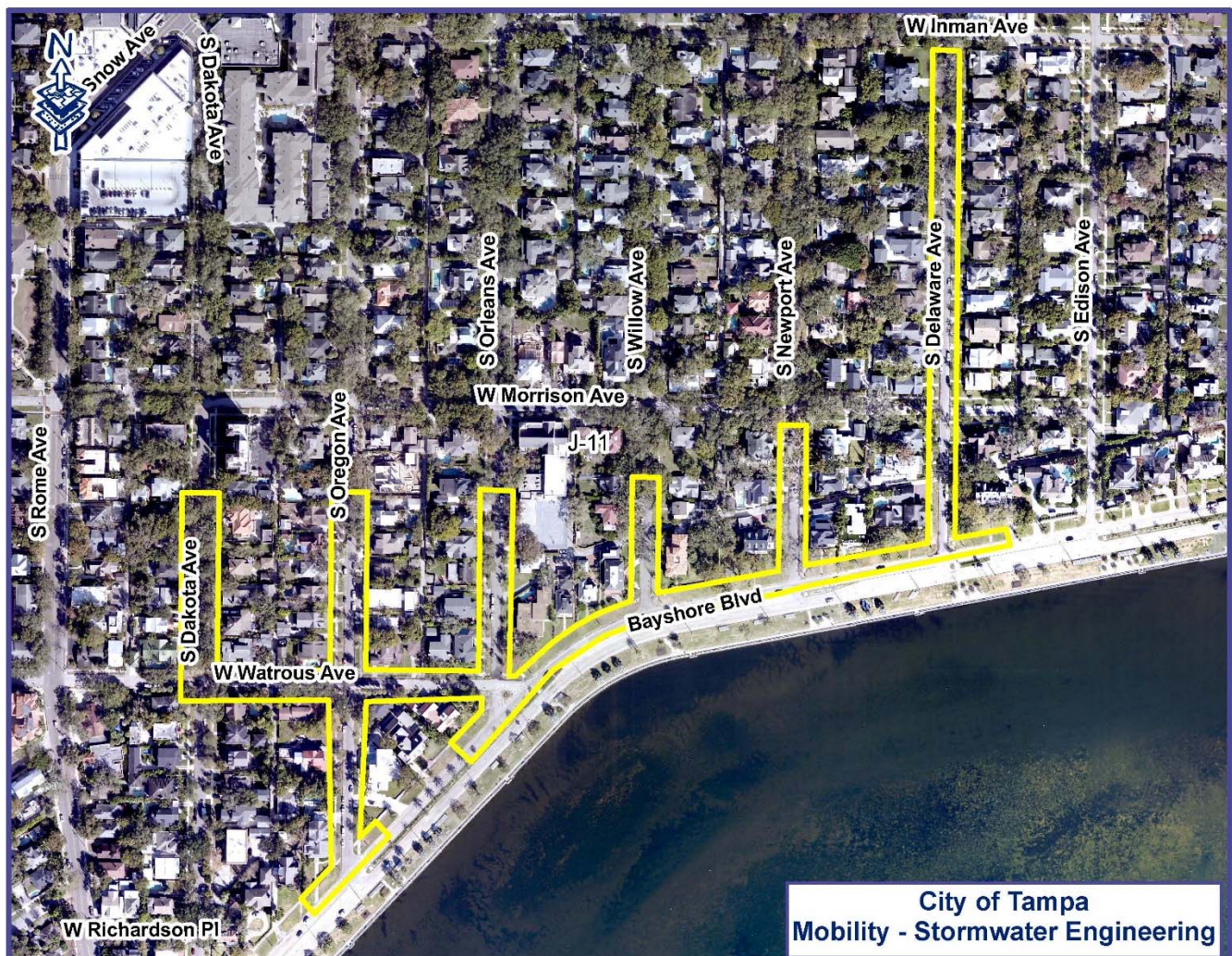
Estimated cost: \$2M

Project Description:

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

The proposed project will divert ground water flow with the installation of underdrain systems along each side of the streets. The new underdrain systems will be connected to the existing inlets along Bayshore Boulevard for discharge to Hillsborough Bay.

Project Map



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.

Project Map



Manhattan: Vasconia to Bay to Bay

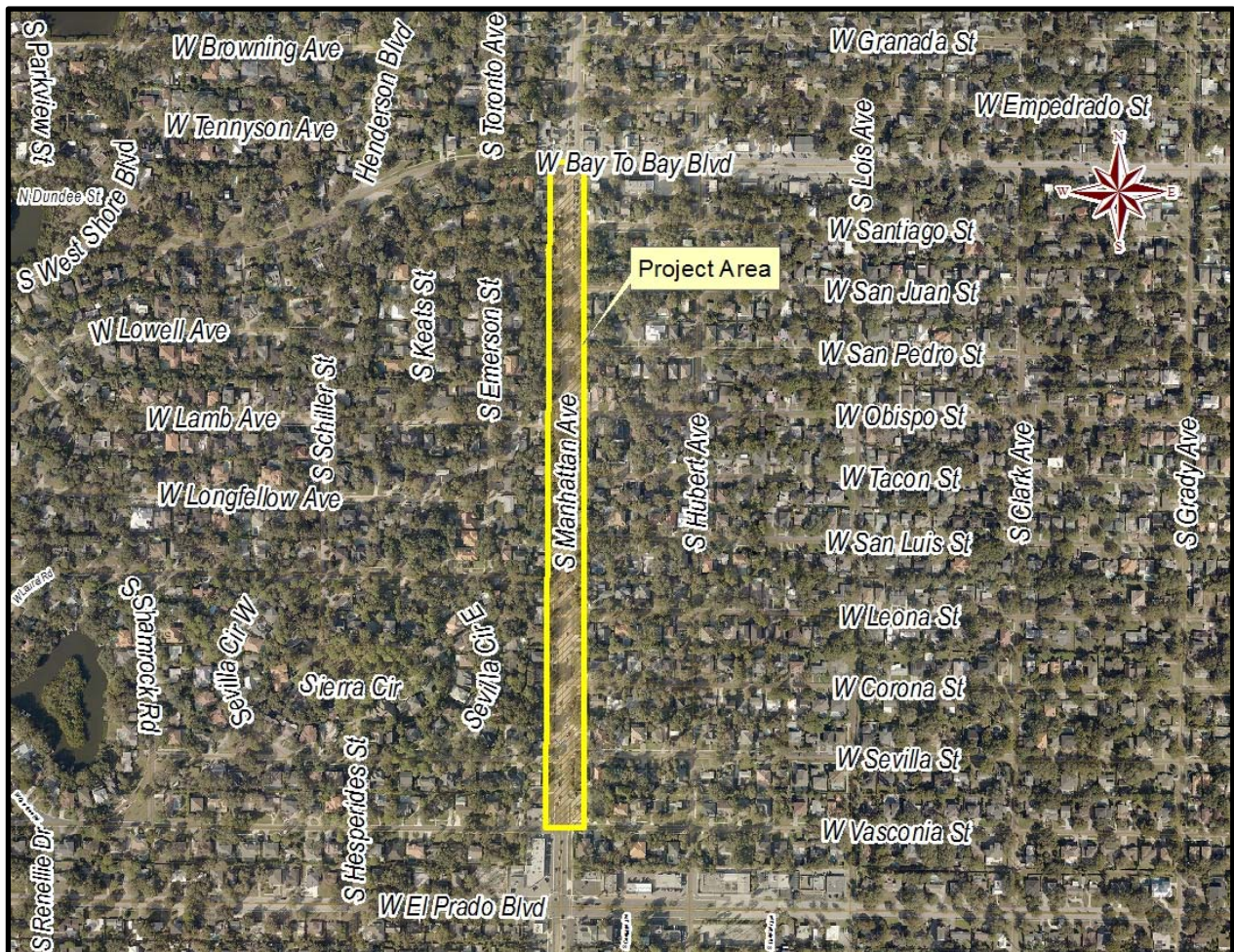
Flooding Relief FY2020; District 4

Estimated cost: \$7.5M

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.

Project Map



Annual Box Culvert Rehabilitation

Flooding Relief; Citywide

Estimated cost: \$3M

Project Description:

The City has numerous box culverts that are over 75 years old. These structures need remedial work to repair spalled concrete and joint leaks. The proposed project will create an annual contract to address the repairs in a timely fashion as they become evident.

Project Photos:



Golf View Flooding Relief

Flooding Relief & Water Quality Improvement
Estimated cost: \$8M; District 4

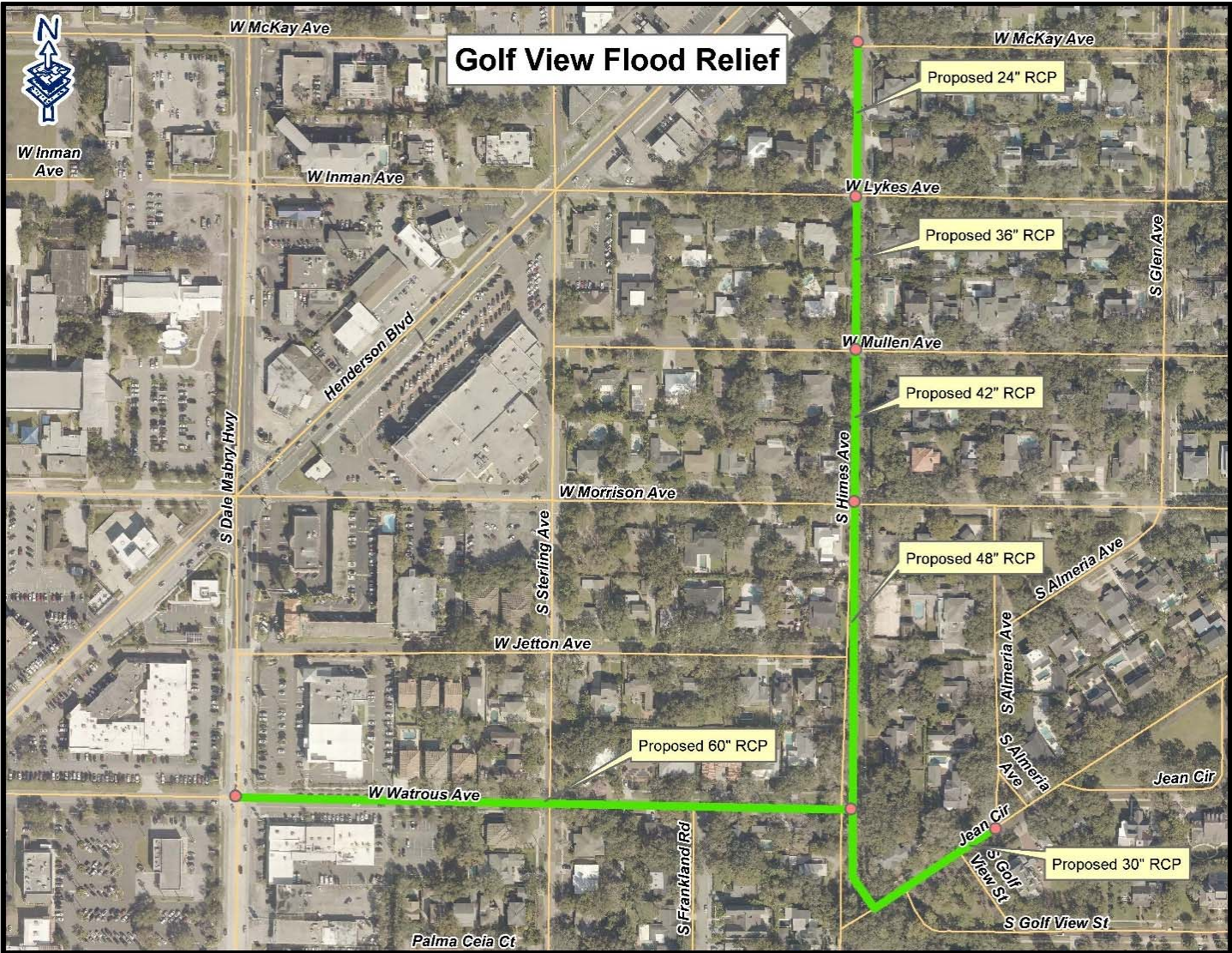
Project Description:

During high intensity and short duration rain events, low-lying areas in Golf View Neighborhood experience frequent and dangerous flooding due to an old and undersized drainage system. It often takes days to drain some of the flooded streets and vehicles are stranded in these flooded streets. This project consists of design and construction of a new drainage conveyance system as well as the replacement and upsizing of the existing drainage conveyance system in a highly urbanized residential neighborhood. Following the completion of Florida Department of Transportation's drainage project on S Dale Mabry Hwy between Henderson Blvd and W Neptune St, this project was proposed. The upsized drainage system will connect to the City's recently completed Dale Mabry-Henderson Trunkline project at W Watrous Ave and S Dale Mabry Hwy. There will be opportunities to implement Green Infrastructure technologies and improve water quality with this project.

Project Photo



Golf View Project Map



Copeland Park Pumping Station

Flooding Relief FY2018, District 7

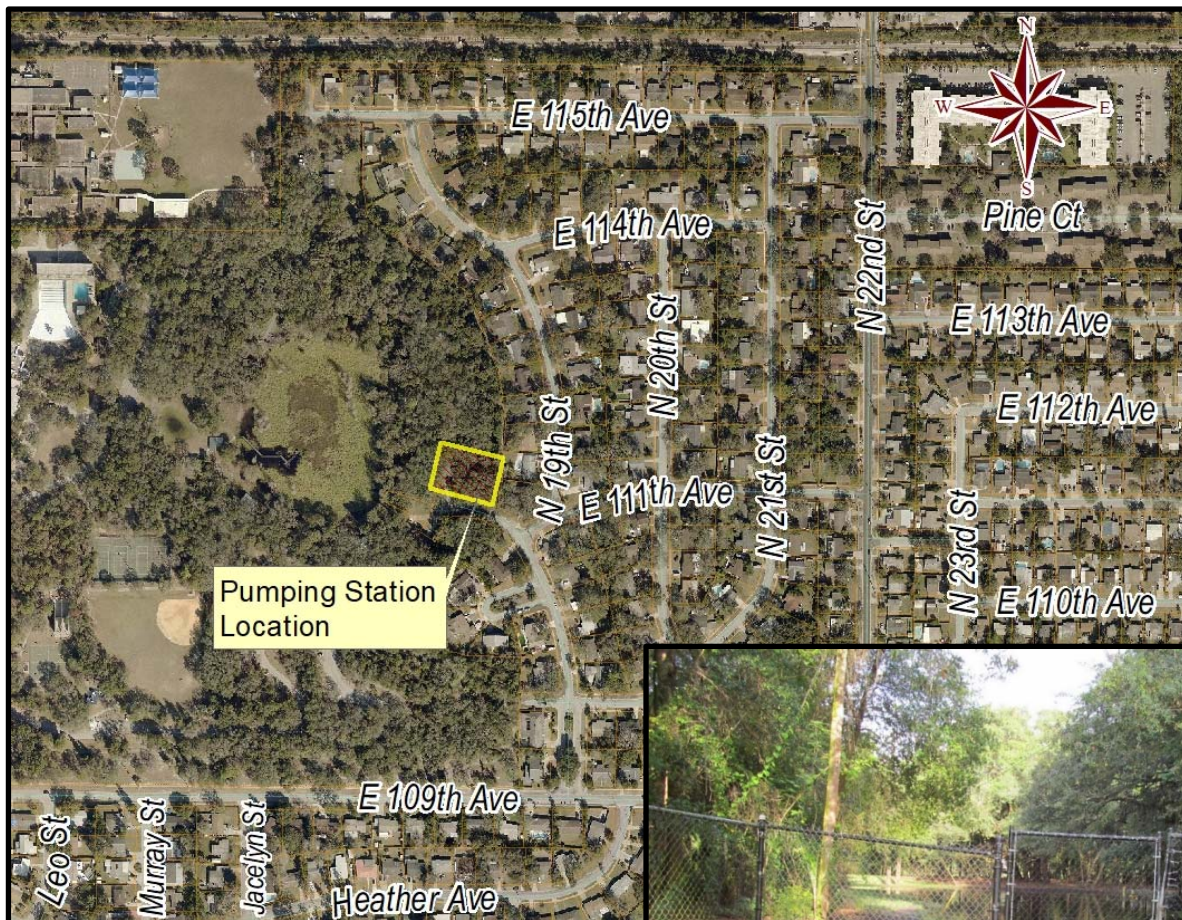
Estimated cost: \$200K

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 111th Ave. and N 26th 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

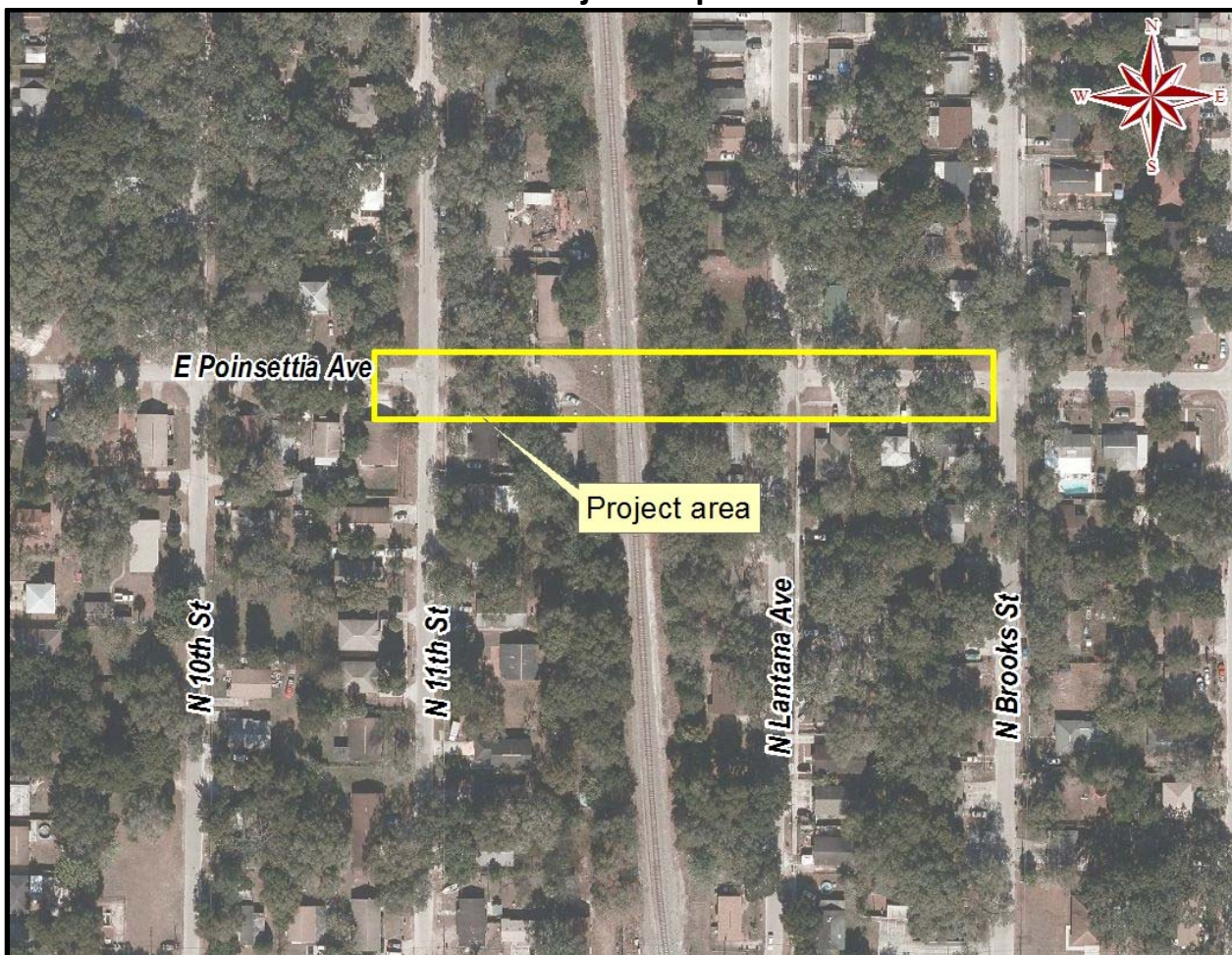
Project Description:

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 11th 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.

Project Map



El Portal/Newport Pumping Station

FY2021, District 6
Estimated cost: \$325k

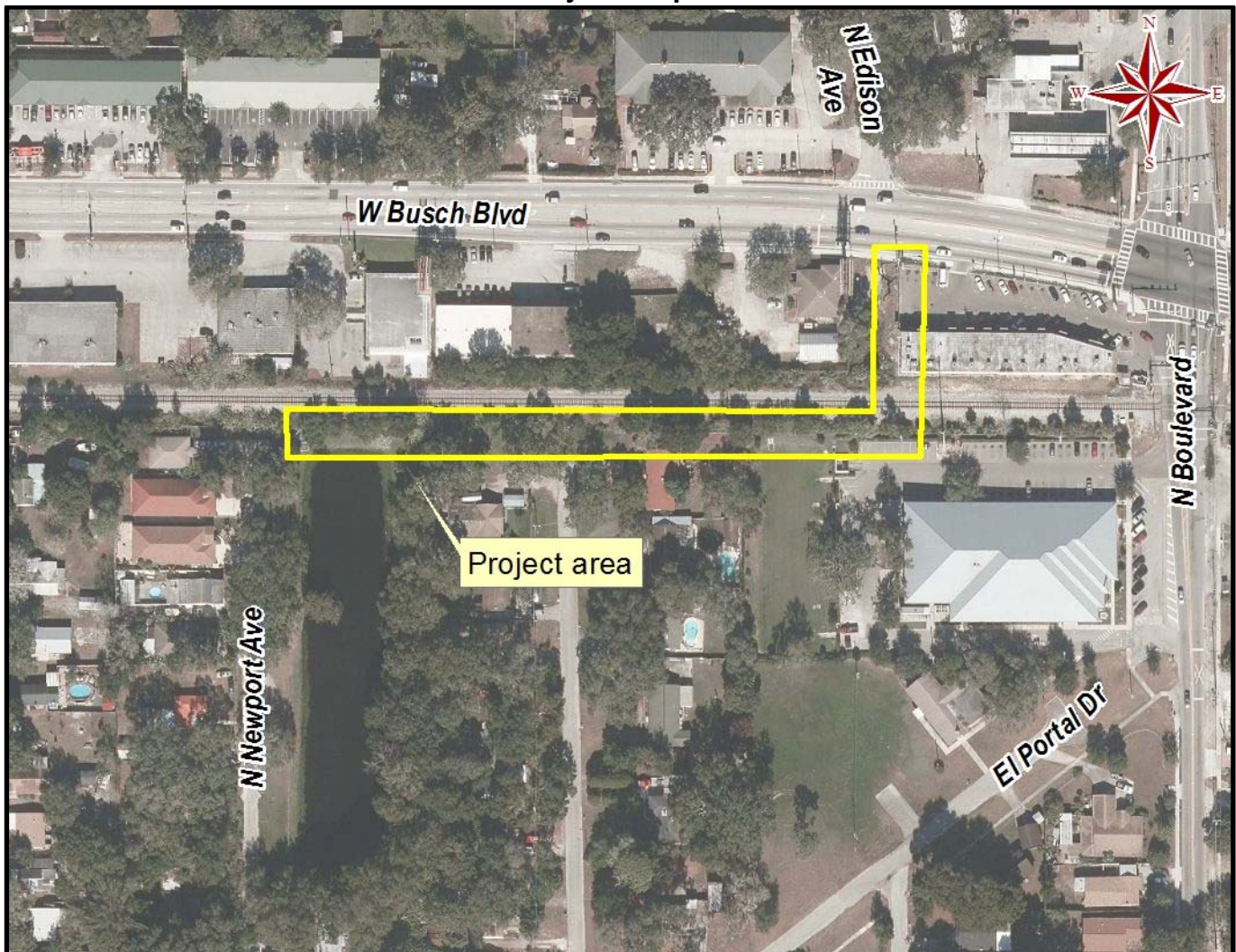
Project Description:

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 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.

Project Map



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 4th Street. The proposed project will alleviate the flooding.

Project Map



Neptune/Treasure Drainage Improvement

Pipe in Ditch FY2018, District 6

Estimated cost: \$75K

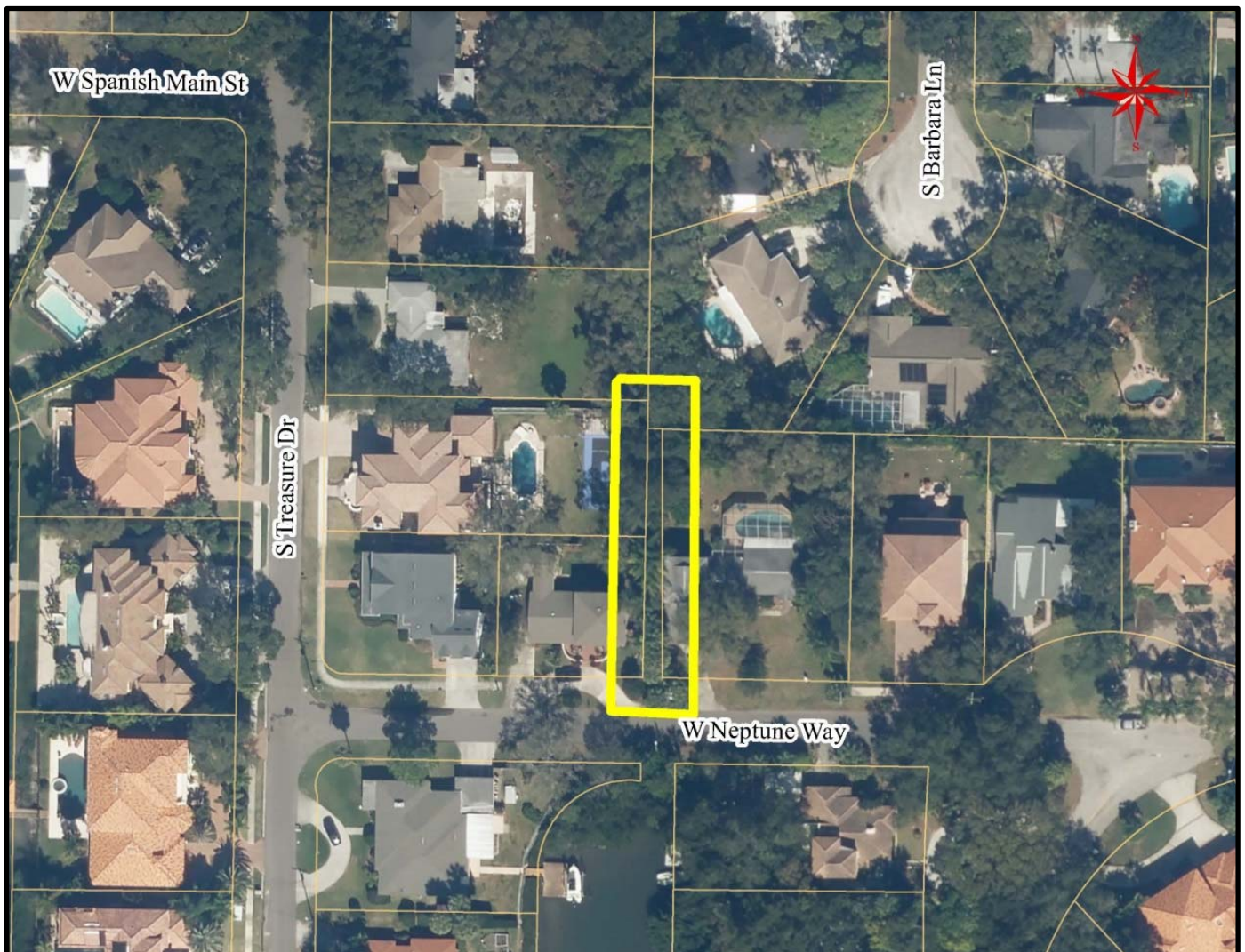
Project Description:

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.

Project Map



Ballast Point Boulevard at MacDill Avenue

Flooding Relief FY 2019, District 4

Estimated cost: \$125K

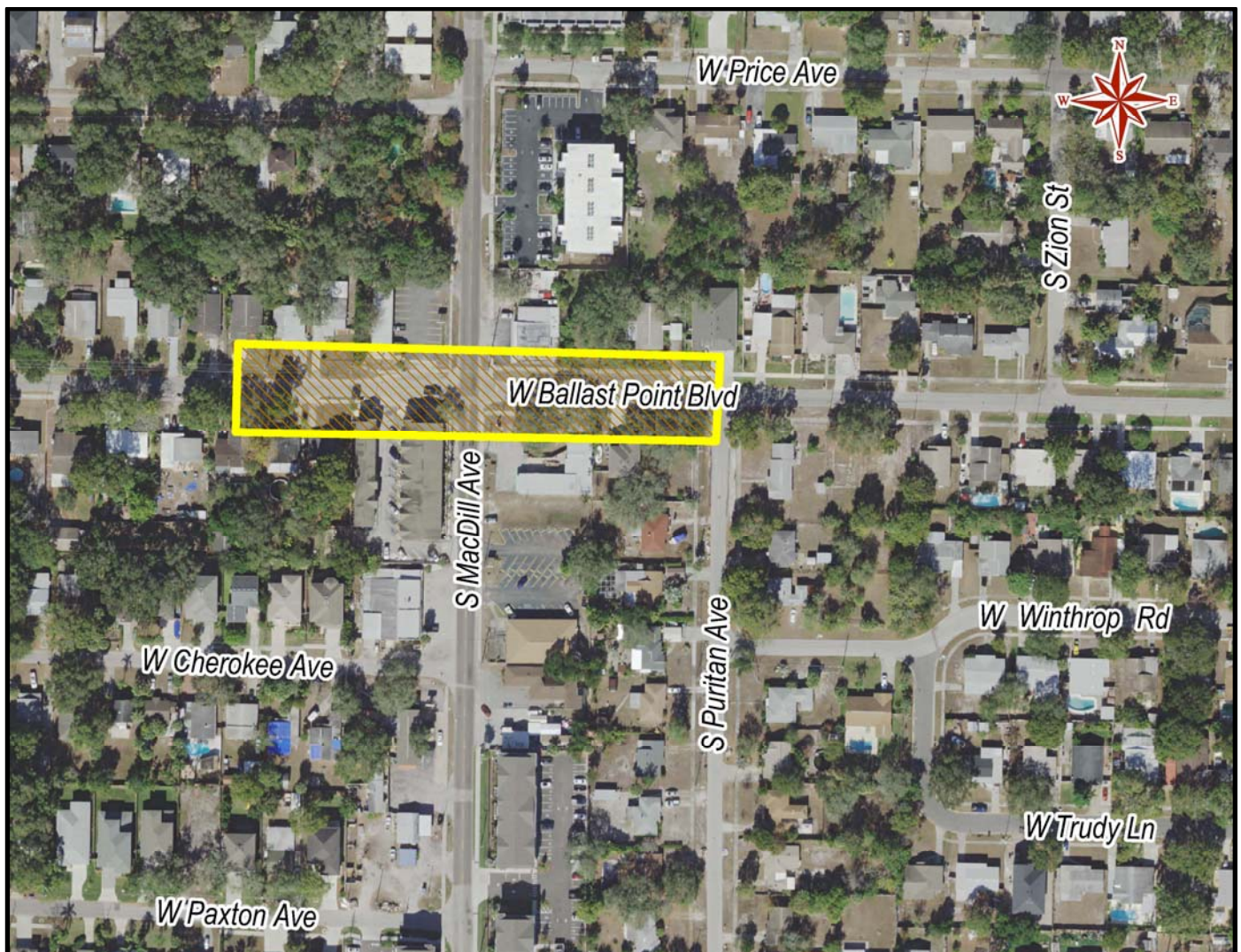
Project Description:

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.

Project Map



Chelsea Street at 44th Street Flooding Relief

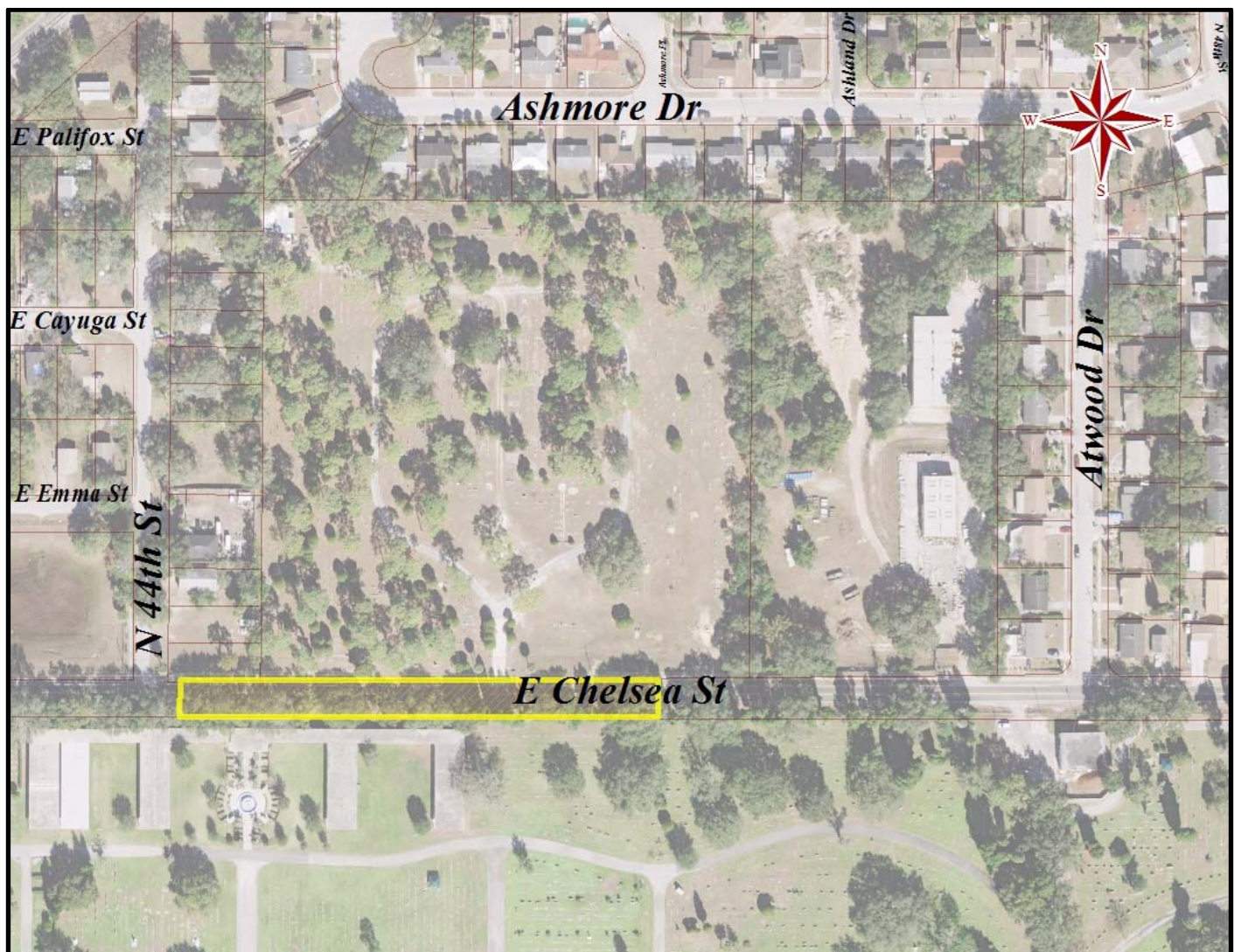
Flooding Relief FY 2020, District 5

Estimated cost: \$90K

Project Description:

Low-lying areas on East Chelsea Street between North 44th 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.

Project Map



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.

Project Map



Okara & 26th Street Force Main

Flooding Relief, District 7

Estimated cost: \$90K

Project Description:

Currently the pond located at Okara Road and 26th 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.

Project Map



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.

Project Map



Howard & North B Street Flooding Relief

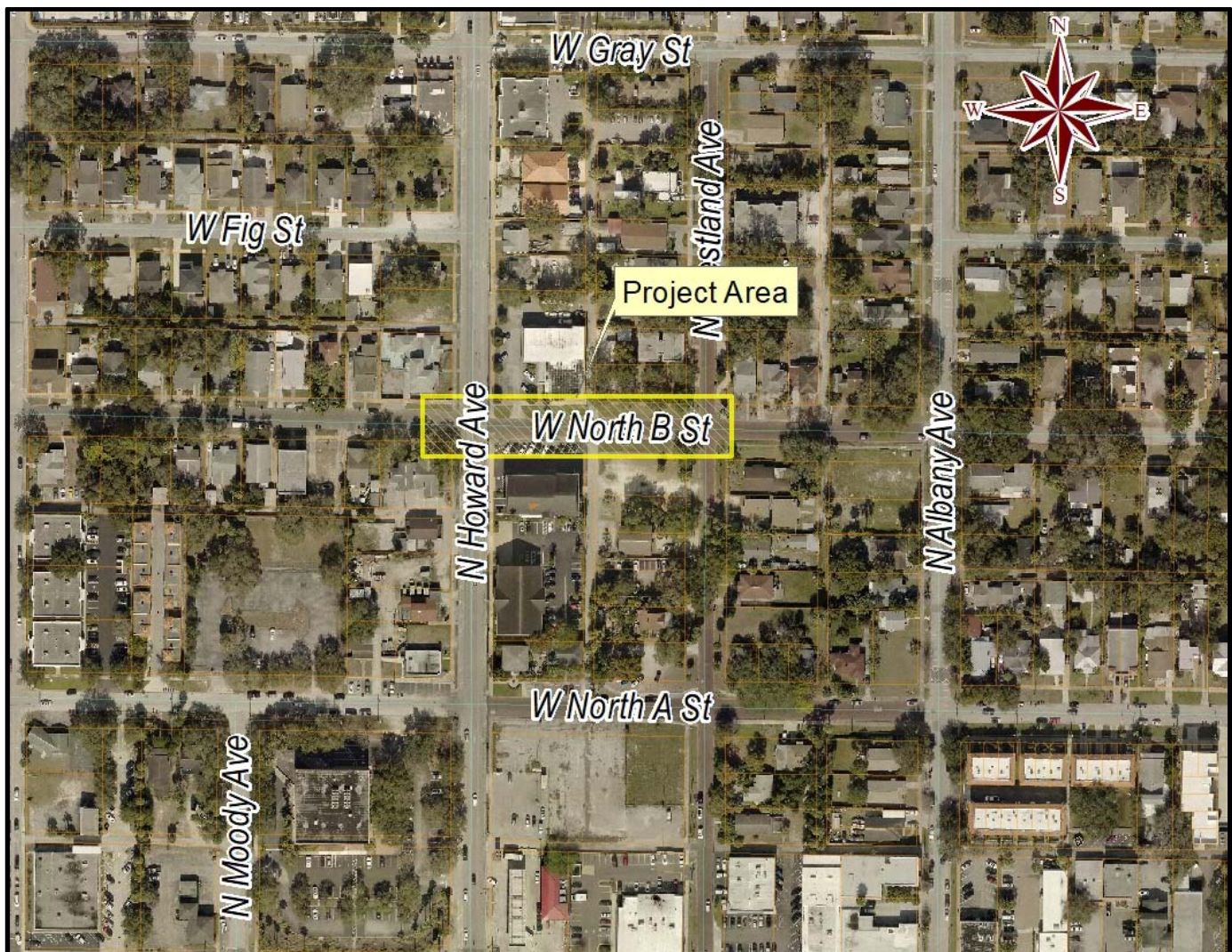
Flooding Relief FY 2021; District 4&5

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.

Project 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 17th 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 - 21st and Annie Pond

Flooding Relief/Water Quality Improvements FY2021; District 7

Estimated cost: \$90K

Project Description:

The N. 21st 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.

Project Map



NTCB - Elmer Pond Expansion

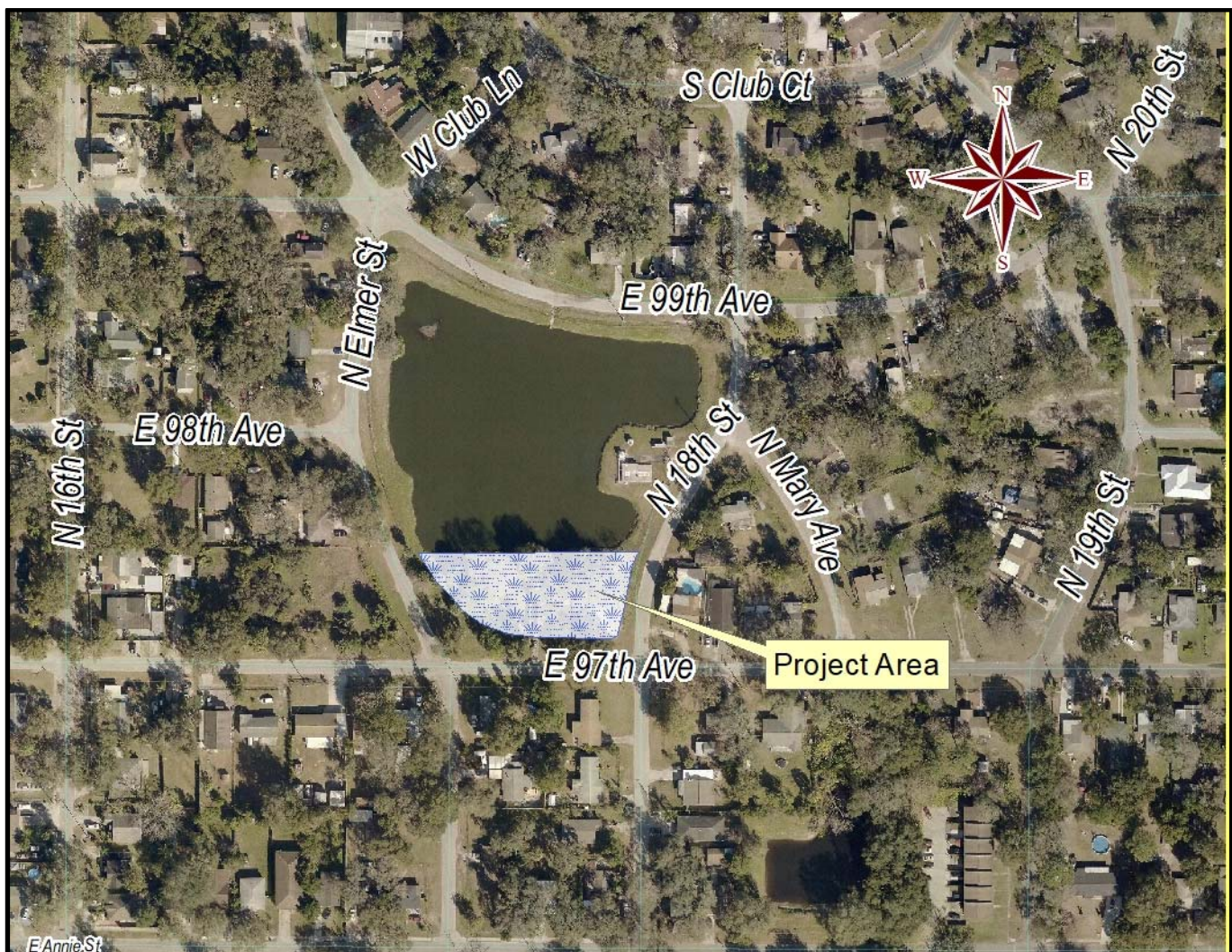
Flooding Relief/Water Quality Improvements FY 2021; District 7

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.

Project Map



NTCB - 99th Avenue Pond Expansion

Flooding Relief/Water Quality Improvements; District 7

Estimated cost: \$50K

Project Description:

The current 99th 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.

Project Map



22nd St. & McBerry St. Flooding Relief

Flooding Relief FY 2021; District 5

Estimated cost: \$75K

Project Description:

Low-lying areas of 22nd 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 24th St. to alleviate flooding.

Project Map



Parkland Estates: Audubon & Fountain

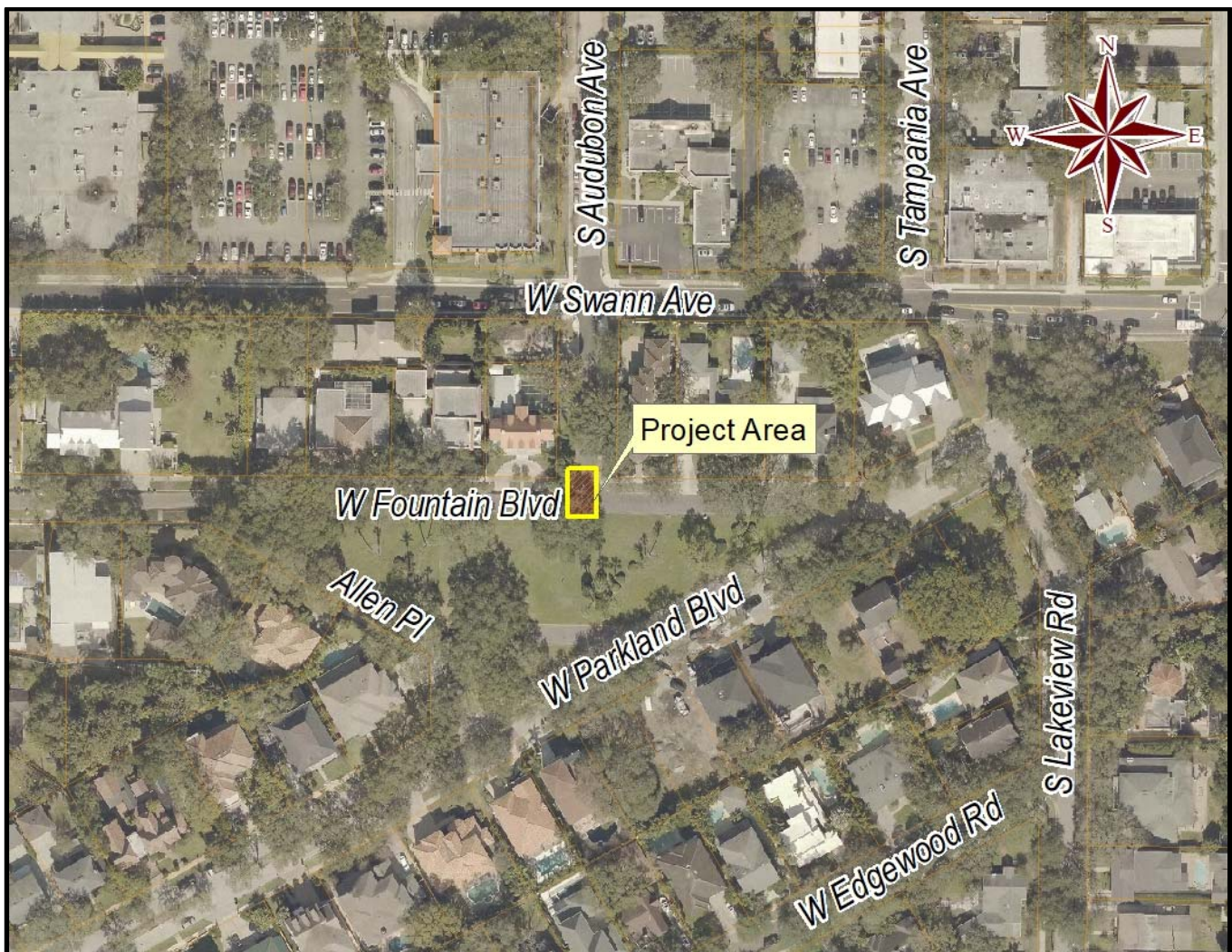
Flooding Relief FY 2020; District 4

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.

Project Map



2nd Street from Wyoming to Interbay

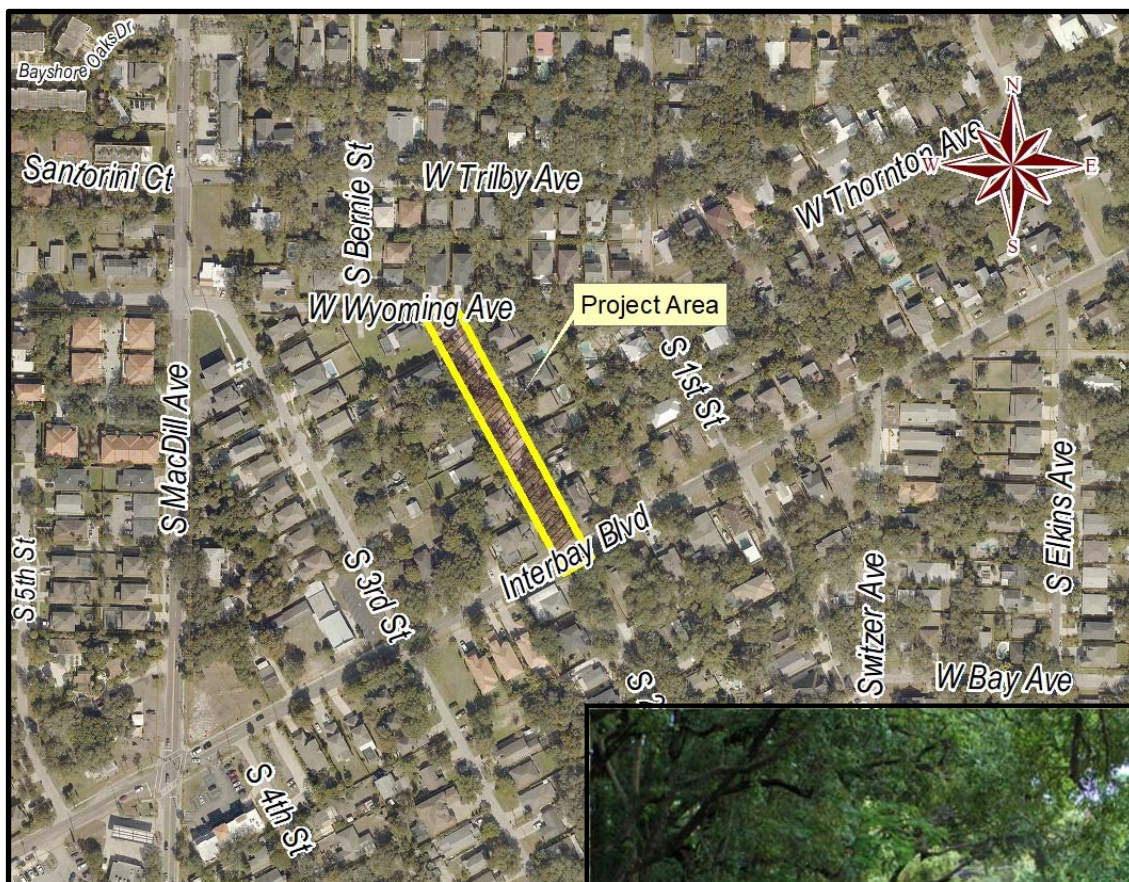
Flooding Relief; District 4

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. and 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.

Project Map



Church and Fair Oaks Ave.

Flooding Relief; District 4

Estimated cost: \$25K

Project Description:

The corner of Church Ave. and Fair Oaks Ave. experiences frequent flooding due to a section of improperly constructed aboveground pipes. The proposed project will replace the aboveground pipe with underground pipe and a manhole to establish proper drainage pattern.

Project Map



Franklin: Henderson to Estelle Flooding Relief

Flooding Relief; District 5

Estimated cost: \$75K

Project Description:

Flooding occurs at the intersection of Franklin St. and Henderson Ave. due to lack of positive outfall for the existing inlets in the area. The proposed project consists of construction of new inlets and pipes connecting to the existing stormwater system on Estelle St for discharge to the river.

Project Map



Krental Pond

Flooding Relief/Water Quality Improvements; District 4

Estimated cost: \$25K

Project Description:

South Krental Avenue between West Kennedy Boulevard and West Cleveland Street experiences frequent flooding during short, intense rainfalls due to undersized drainage system. The proposed project consists of property acquisition and construction of a stormwater pond to alleviate flooding and provide water quality treatment.

Project Map





Section B

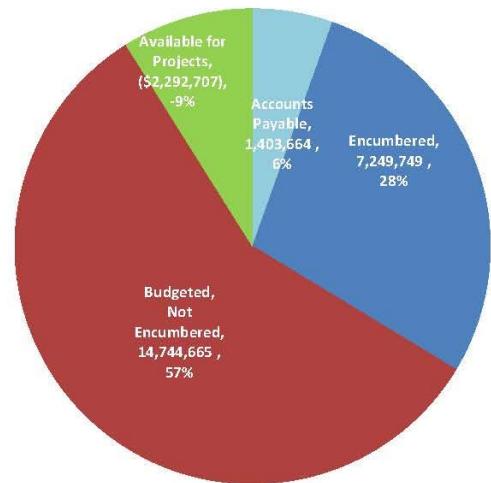
Stormwater Capital Improvement Bond Program Report

City of Tampa
Budget Office

Stormwater Assessment Revenue Bonds, Series 2018
As of September 30, 2021

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	<u>70,855,589</u>
Amount Expended to Date	(53,610,016)
Accounts Payable	1,403,664
Unused Fees and Interest Earnings	(2,278,280)
Appropriation of Earned Interest	<u>4,734,414</u>
Remaining Bond Proceeds	21,105,371
Accounts Payable	1,403,664
Encumbered	7,249,749
Budgeted, Not Encumbered	<u>14,744,665</u>
Available for Projects ⁽¹⁾	<u>(\$2,292,707)</u>



Spend-Down Schedule:

6 Months (10/26/2018)	10%	\$7,560,443
12 Months (04/26/2019)	45%	\$34,021,993
18 Months (10/26/2019)	75%	\$56,703,322
24 Months (04/26/2020)	100%	\$75,604,430

Percentage Spent - Sept 2021 71%
Bond Issuance Date 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	\$5,241,152	4,980,644	260,507	1
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	0	372,854
Lower Peninsula Watershed Plan	1000750	1,907,978	1,876,696	0	31,282
Ditch Rehabilitation	1000751	130,259	107,849	0	22,410
Southeast Seminole Heights Flood Relief	1000773	11,503,253	2,192,006	1,096,842	8,214,405

Project Name	Project Number	Budget	Actuals	Encumbrance	Balance
Upper Peninsula Watershed Drainage Improvement	1001017	16,887,267	16,438,949	47,716	400,603
Cypress Street Outfall Regional Stormwater	1001018	16,719,297	13,288,778	3,429,912	606
Hamilton Creek Water Quality Improvements	1001169	500,041	115,426	34,480	350,135
ST FY17 Annual CIPP Rehabilitation	1001151	496,970	0	0	496,970
Lamb Canal Rehabilitation	1001171	1,500,058	164,534	74,994	1,260,530
North Tampa Closed Basins FY2018 - FY2022	1001173	4,463,061	4,003,342	191,804	267,915
Failed Pipe CIPP FY2018 - FY2022	1001175	2,168,405	1,806,055	127,541	234,810
In House Flooding Relief/Failed Pipe Replacement	1001176	815,711	734,121	66,642	14,948
Consultants and Land Acquisition FY2018 - FY2022	1001218	925,421	696,973	10,761	217,688
Annual Contract-Copeland Park	1001370	685,000	0	591,016	93,984
Annual Contract-Anita Sub PH2	1001371	1,410,058	291,971	965,141	152,946
In House Flooding Relief - 45th Street North of Hillsborough	1001406	240,018	229,649	0	10,369
In House Flooding Relief - Rambla Street	1001428	100,000	36,247	0	63,753
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	56,685	15,470	135,381
Delaware, Oregon, and Dakota Groundwater Diversion	1001948	1,300,000	0	0	1,300,000
.El Portal & Newport Pumping Station	1001951	327,800	116,227	211,534	40
Salaries for CIP	0000000	687,381	687,381	0	0
Reserve	0000000	955,564	0	0	955,564
Cost Allocation Stormwater	0900007	66,876	66,876	0	0
Grand Total		\$75,604,430	\$53,610,016	\$7,249,749	\$14,744,665

⁽¹⁾ Amount represents the net of unused issuance cost budget and unearned interest earnings.



Section C

Stormwater Service Assessment Program Report

Tampa City Council Update No. 20 - December 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	4 th Quarter FY21 & Year to Date Service Levels
Ditches	10-Year Cycle	7-Year Cycle	22.7-Year Cycle (4 th Qtr.) 7.9-Year Cycle (Y.T.D)
Ponds	Minimal	3-Year Cycle	3-Year Cycle (4 th Qtr.) 3-Year Cycle (Y.T.D)
Pipes	10-Year Cycle	7-Year Cycle	8.5-Year Cycle (4 th Qtr.) 8.3-Year Cycle (Y.T.D)
Outfalls	15-Year Cycle	5-Year Cycle	N/A-Year Cycle (4 th Qtr.) 6.4-Year Cycle (Y.T.D)
Pumps	Low Preventative Maintenance	Annual Preventative Maintenance	1-Year Cycle
Street Sweeping	90-Day Cycle	60-Day Cycle	47-Day Cycle (4 th Qtr.) 54-Day Cycle (Y.T.D)
Operations and Maintenance Activities	4 th Quarter Maintenance Statistics		
Ditches	10,951 linear feet of ditches maintained with 1,862.3 tons removed, 22 fallen trees removed, 441,765 linear feet of ditch mowed monthly with 18.7 tons of trash removed. Productivities have been slowed due to excessive rains and sod shortages.		
Ponds	9.84 tons of trash and illegal dumping have been disposed of, there have been 116 herbicide treatments to various ponds, 126 stormwater ponds mowed monthly. 82 linear feet of pond fencing replaced.		
Pipes	81,896 linear feet of storm drainage pipe inspected and maintained, 1,116 storm drain inlets and manholes inspected and maintained with 286 tons of debris removed. 38 cave-ins and 21 inlet tops repaired.		
Outfalls	There were no outfalls inspected or maintained this quarter due to unfavorable tides that restrict access to the outfalls.		
Pumps	Preventative Maintenance provided to all thirteen (13) stormwater pump stations. Proactive maintenance and inspections totaled 253 Manhours.		
Street Sweeping	6,988 curb miles were swept, approximately 1,498.5 tons of debris removed.		

West Peninsula Canal 8 Dredging



Before



During



During



After