



Department of
Transportation and Stormwater Services

Stormwater Engineering and Design Division

Project Descriptions for FY 15

43rd Street Outfall PH II Pond

Regional Drainage Improvement

Flooding Relief FY2015

Estimated cost: \$700K

PROPOSED PROJECT MAP

- **JUSTIFICATION:**

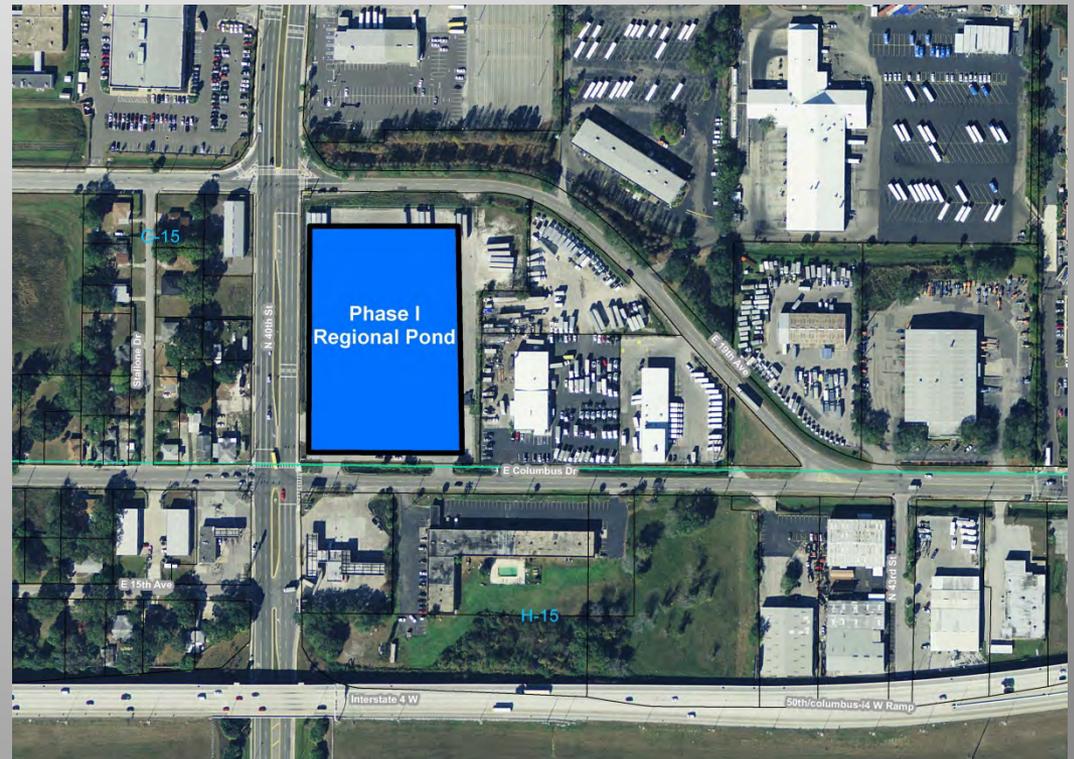
The project reduces the severity of flooding affecting commercial properties and roadways.

- **PROJECT DESCRIPTION:**

The project consists of the construction of a 5.0 acre pond to provide storage for runoff that is adversely affecting properties in the area. Approximately 10 ac-ft of attenuation storage is provided.

- **Related Issues:**

Phase II of the project will provide a new outfall from the pond to convey runoff south to the 43rd Street ditch, just upstream of McKay Bay.



43rd Street Outfall PH III

Regional Drainage Improvement

Flooding Relief FY2015

Estimated cost: \$4.1M (City Share \$2.05M)

- **JUSTIFICATION:**

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

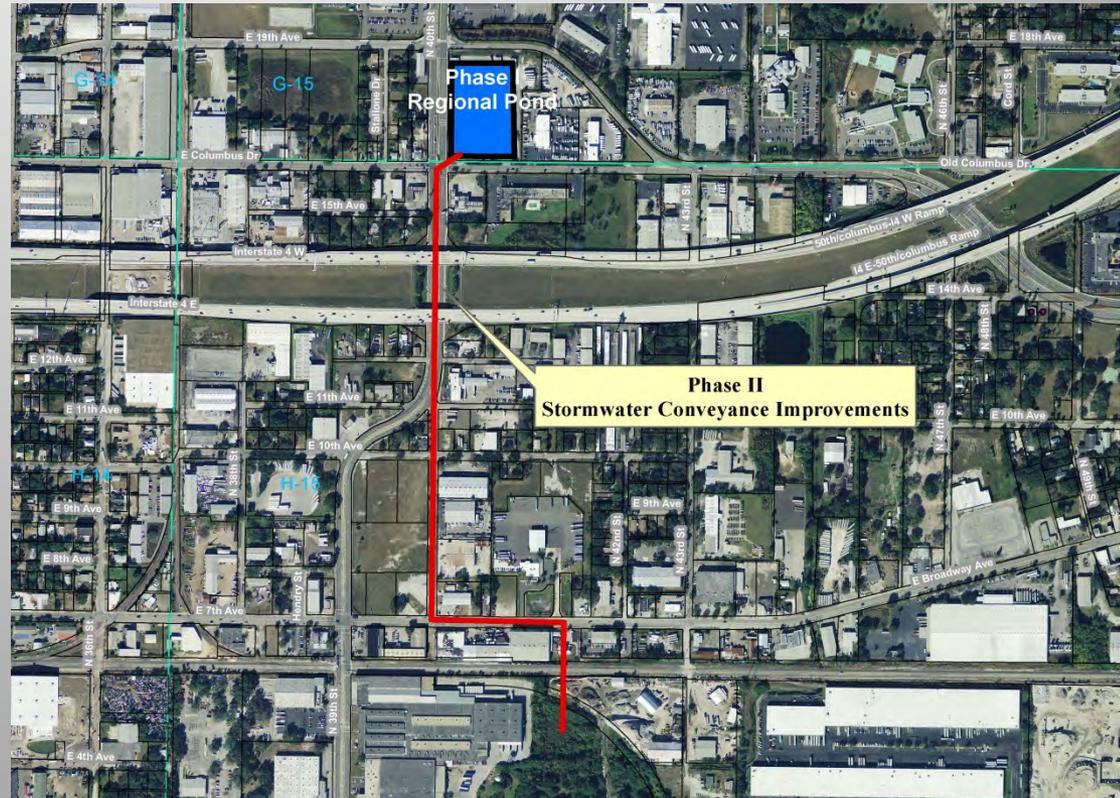
- **PROJECT DESCRIPTION:**

The project consists of the construction of a 48-inch RCP pipe from the Phase I 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.

- **Related Issues:**

It is anticipated that the project will be constructed in phases through FY 2017.

PROPOSED PROJECT MAP



Box Culvert Misc. Rehabilitation

Rehab FY2015 - CAD

Estimated cost: \$750K

- **JUSTIFICATION:**

The City has numerous box culverts that are over 20 years old. These structures need remedial work to repair spalled concrete and joint leaks.

- **PROJECT DESCRIPTION:**

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

- **RELATED ISSUES:**

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



PROJECT PHOTOS

Neptune Lagoon

Water Quality FY2015 - CCC

Estimated cost: \$500K

- **JUSTIFICATION:**

Per agreement with Beach Park Civic Assoc., City of Tampa conducts routine maintenance dredging of the Neptune Lagoon to maintain adequate drainage capacity.

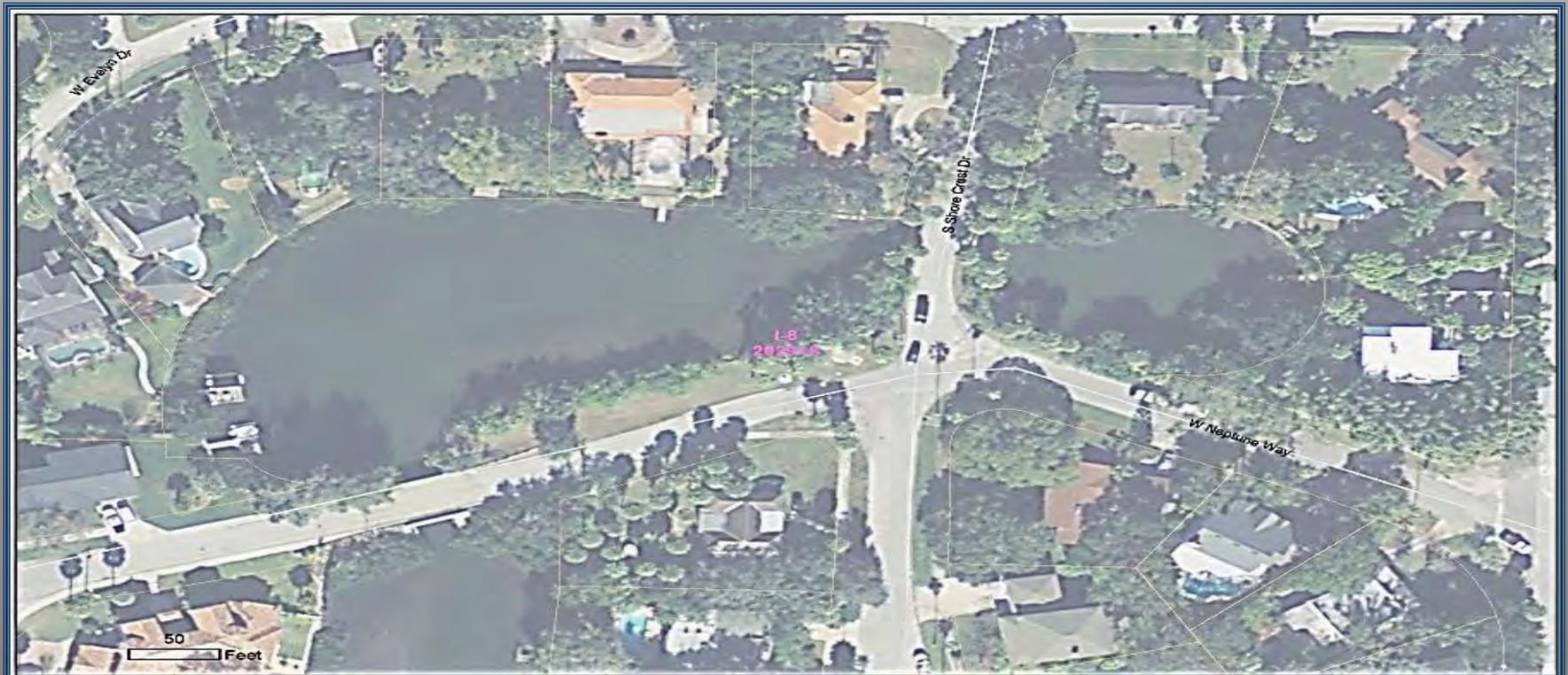
- **PROJECT DESCRIPTION:**

Topographic and bathymetric survey will be conducted to assess depth of water and sediment on the bottom of Neptune Lagoon. Upon result of survey data, design & permitting will initiate for maintenance dredging activity.

- **Related Issues:**

Project notification letters sent to surrounding neighbors, and neighborhood meeting will be conducted before start of field dredging work.

PROPOSED PROJECT MAP



30th Street Outfall

Water Quality 2015

Estimated cost: \$500K

- **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.

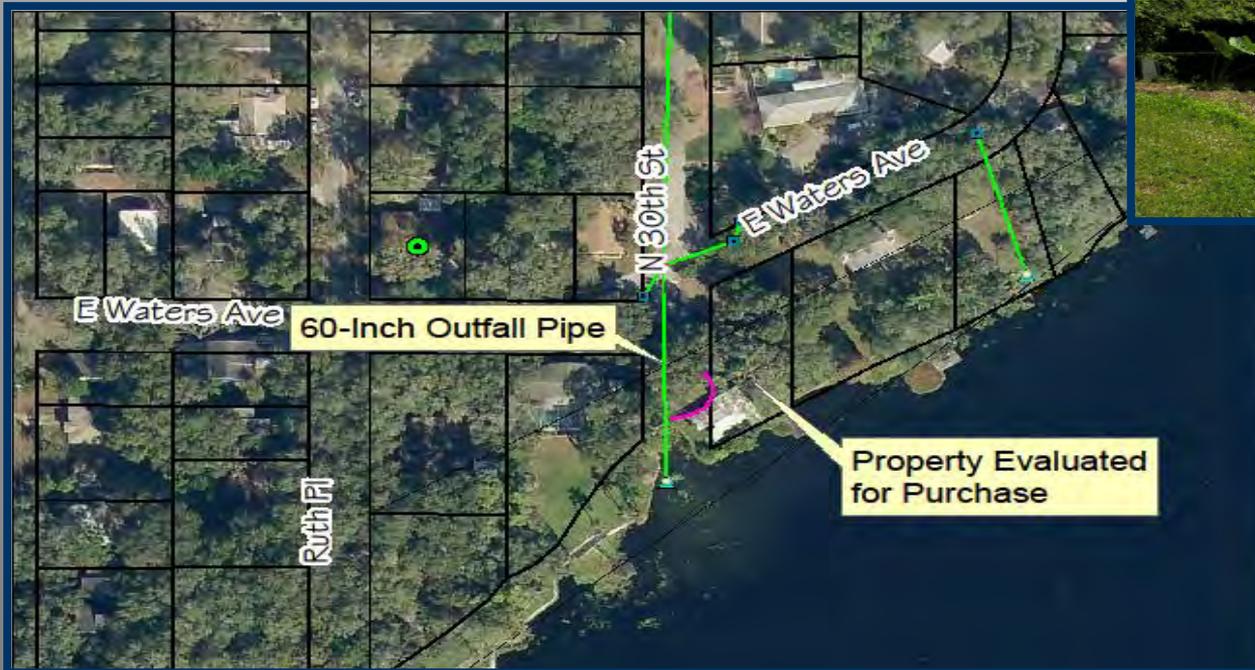
- **PROJECT DESCRIPTION:**

Stormwater is evaluating the purchase of 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.

- **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.

PROPOSED PROJECT MAP

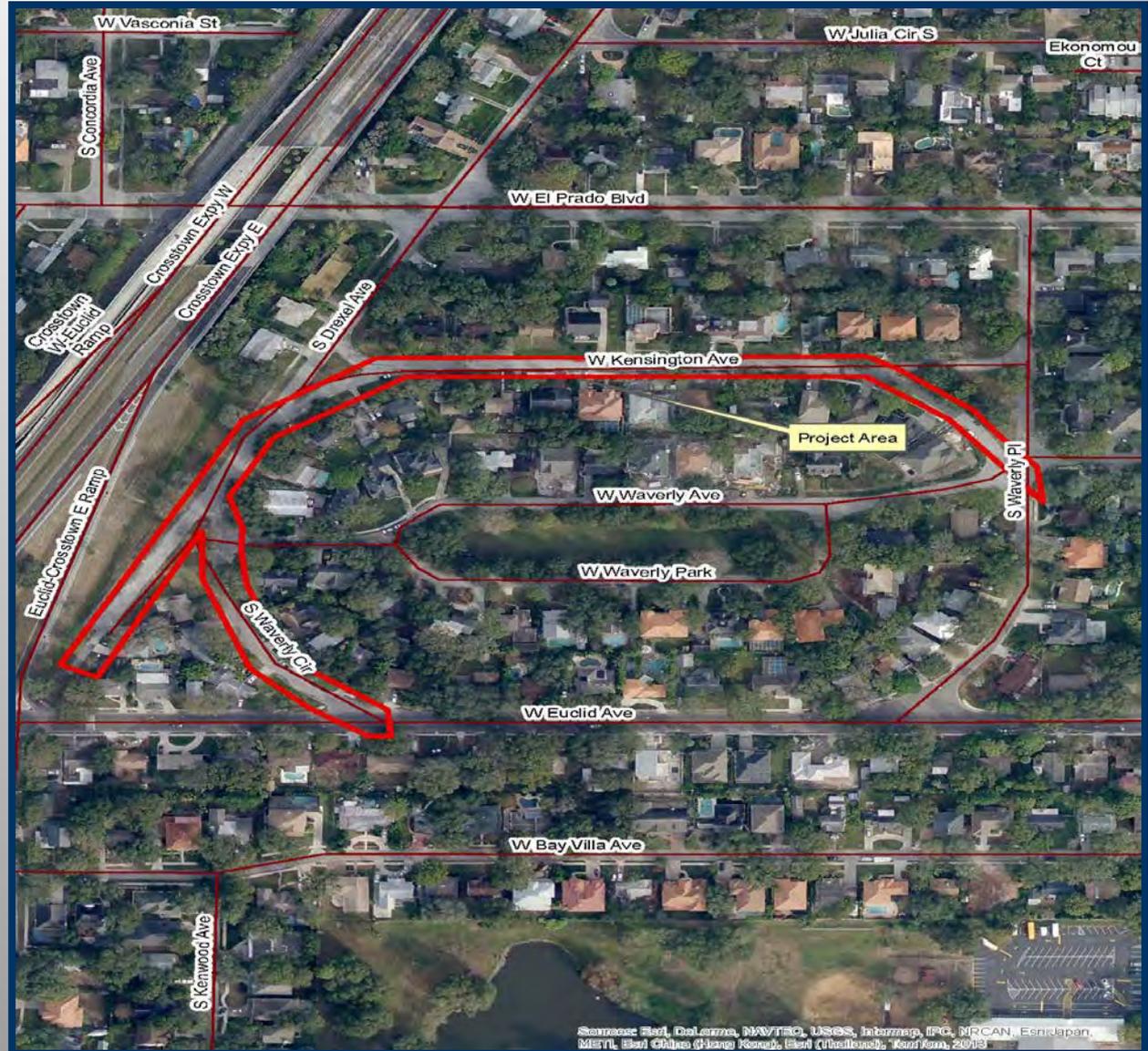


Kensington Ave Groundwater Diversion

Flooding Relief FY2015 - CAD

Estimated cost: \$850K

- **JUSTIFICATION:**
Chronic groundwater seepage due to perched water table.
- **PROJECT DESCRIPTION:**
Construction of an underdrain system and complete replacement of roadway, subgrade, sidewalk, and driveway aprons along Kensington Avenue.
- **Related Issues:**
Geotechnical report complete.
Sanitary sewer lines will be upgraded in conjunction with this project.



PROSED PROJECT MAP

Edison Ave Groundwater Diversion

FY2015 - CAD

Estimated cost: \$600K

JUSTIFICATION:

This section 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.

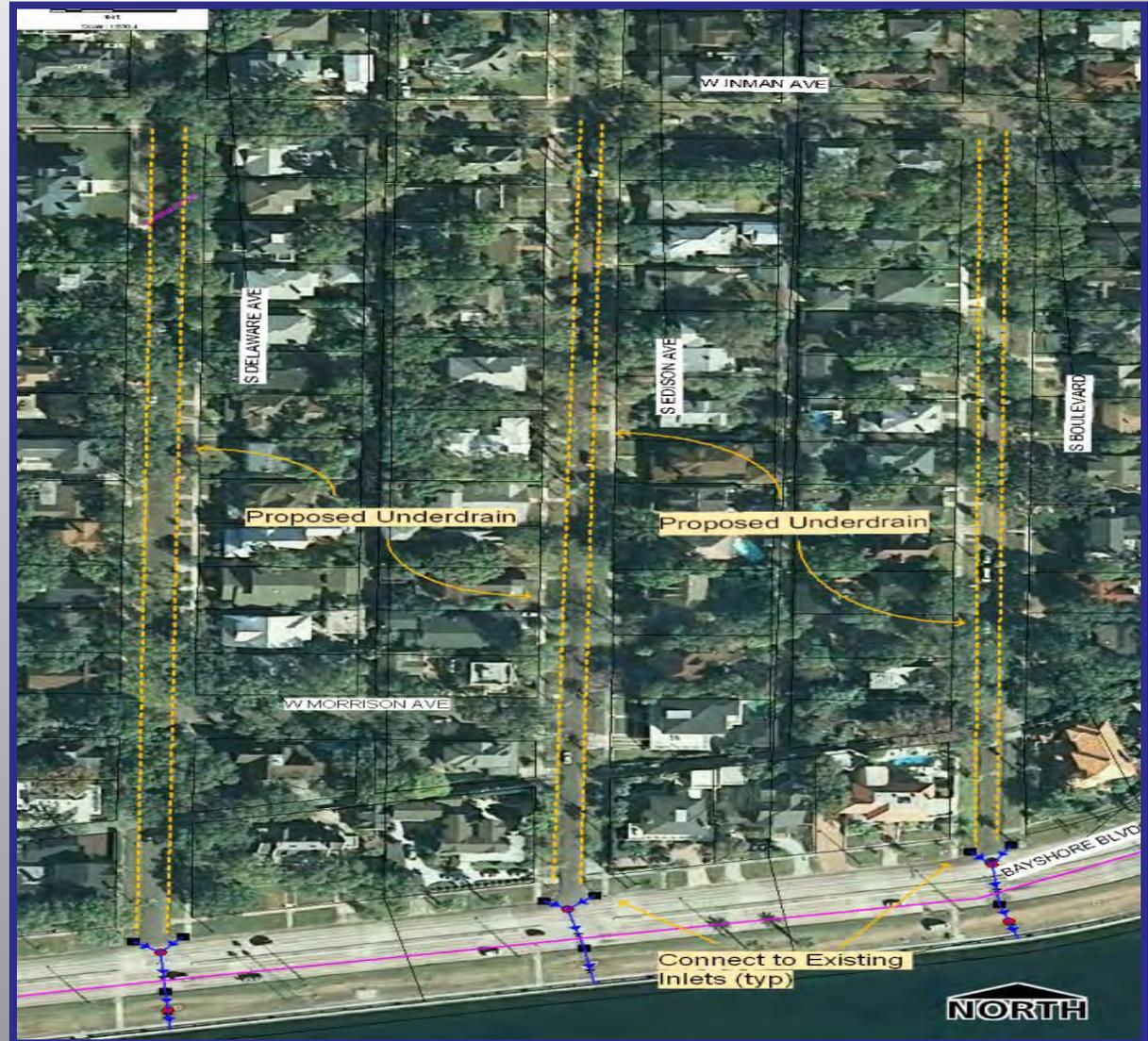
PROJECT DESCRIPTION:

Project includes the installation of underdrains along each side of the roadway from north of Inman to Bayshore Blvd. There the underdrains will be connected to the existing inlets for discharge to Hillsborough Bay.

Related Issues:

Edison Street will be done first, followed by Delaware and Boulevard as funding becomes available.

PROPOSED PROJECT MAP

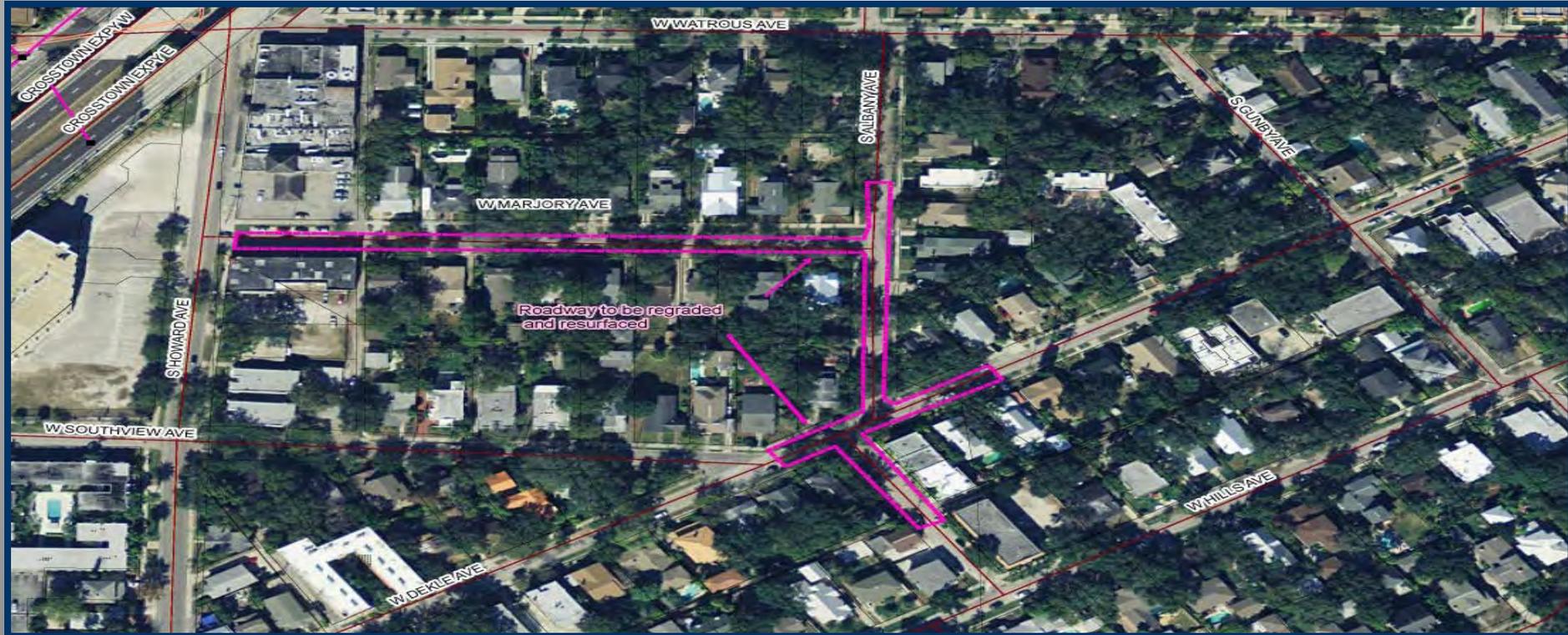


Marjory Ave Roadway Reconstruction

Flooding Relief FY2015 - CAD

Estimated cost: \$600K

PROPOSED PROJECT MAP



- **JUSTIFICATION:**

Pavement overlays have prevented roadway runoff from flowing to the existing stormwater system. Regrading and resurfacing will improve conveyance of runoff and alleviate standing water.

- **PROJECT DESCRIPTION:**

Regrade and replace existing asphaltic brick roadway with asphalt surface and granite curb on Marjory Avenue between Howard and Albany. Regrade and resurface asphalt roadway and concrete curb on Albany between Marjory and Dekle. Replace sidewalks and driveway aprons.

- **Related Issues:**

Possible funding by residents to install red brick.

Concordia Pond

Flooding Relief FY2015 - CCC

Estimated cost: \$125K

- **JUSTIFICATION:**

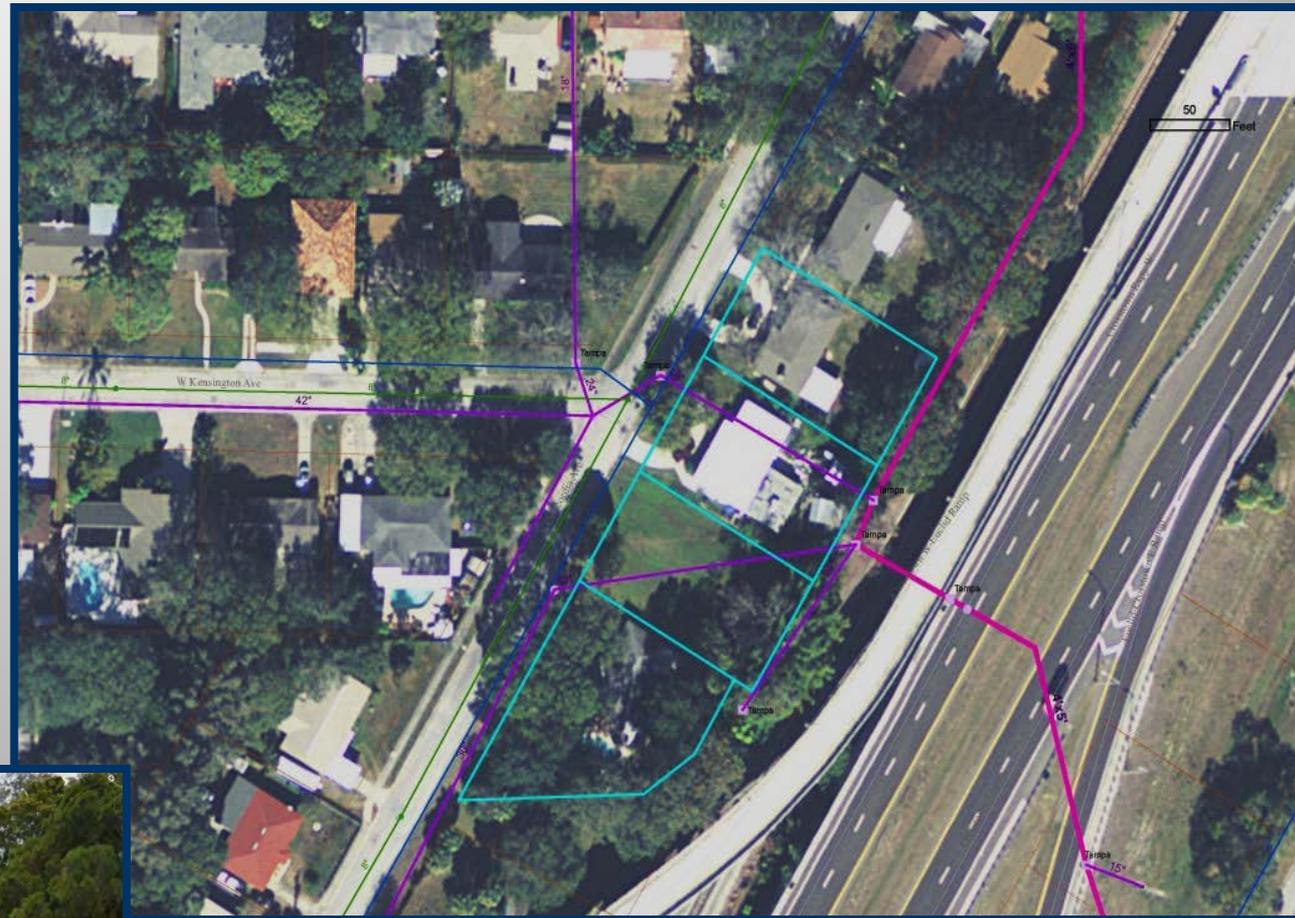
During heavy rain events, several parcels at corner of Concordia and Kensington experience flooding due to outdated drainage system.

- **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.

- **Related Issues:**

CSX drainage connection permit will be obtained before construction.



PROPOSED PROJECT MAP



South Ave. (Grady to Cortez Ave.)

Flooding Relief – FY2015 - CCC

Estimated cost: \$100K

- **JUSTIFICATION:**

South Avenue at Cortez has experienced flooding over the years. The intersection along this corridor drains very slowly because the pipes/ditches connecting the inlets to the main line pipe system are undersized.

- **PROJECT DESCRIPTION:**

This project will provide a drainage solution to address the existing problems at this location. The Drew Park – Phase 2 Grady Avenue project that is underway 2013, it will provide a stub-out for this project to connect.

PROJECT PHOTO

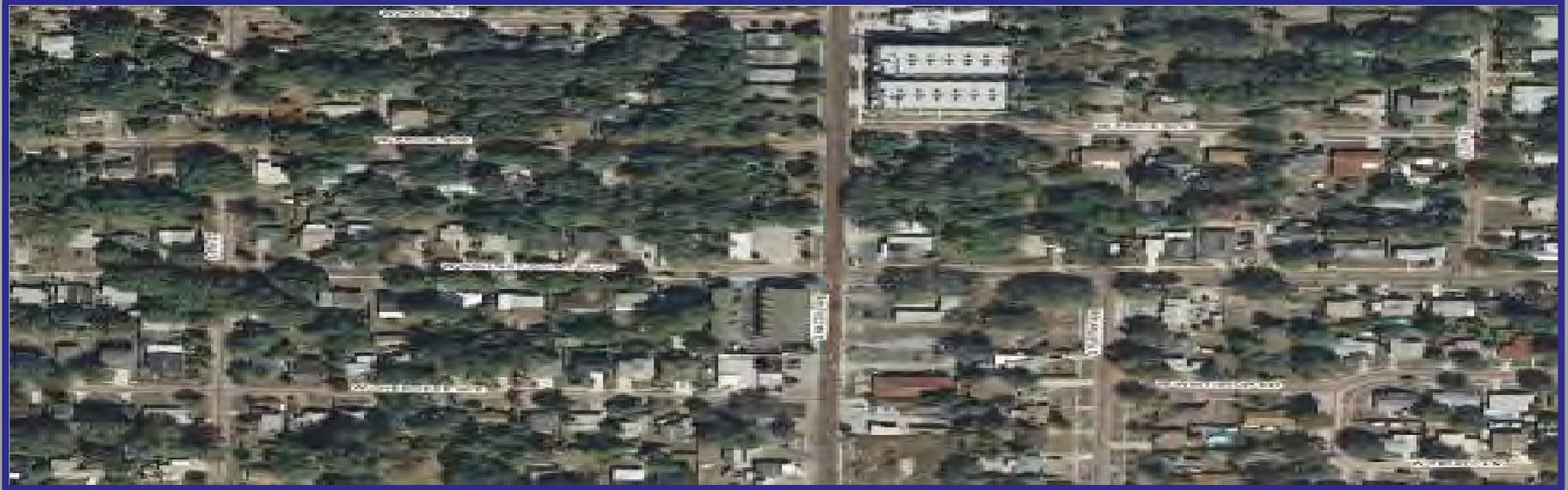


PROPOSED PROJECT MAP



Ballast Point at MacDill
Flooding Relief FY2015 - CCC
Estimated cost: \$125K

PROPOSED PROJECT MAP



- **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 DESCRIPTION:**

Construction of new surface water management facilities and roadway re-grading.

- **Related Issues:**

Within Lower Peninsula project area.



Almeria Flooding Relief

Flooding Relief FY2015 - CCC

Estimated cost: \$50K

- **JUSTIFICATION:**

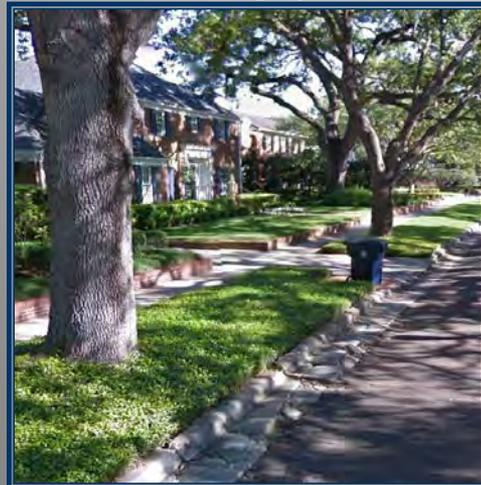
This area of Tampa (Almeria & Jean Circle) has experienced numerous flooding events in the past 5 years.

- **PROJECT DESCRIPTION:**

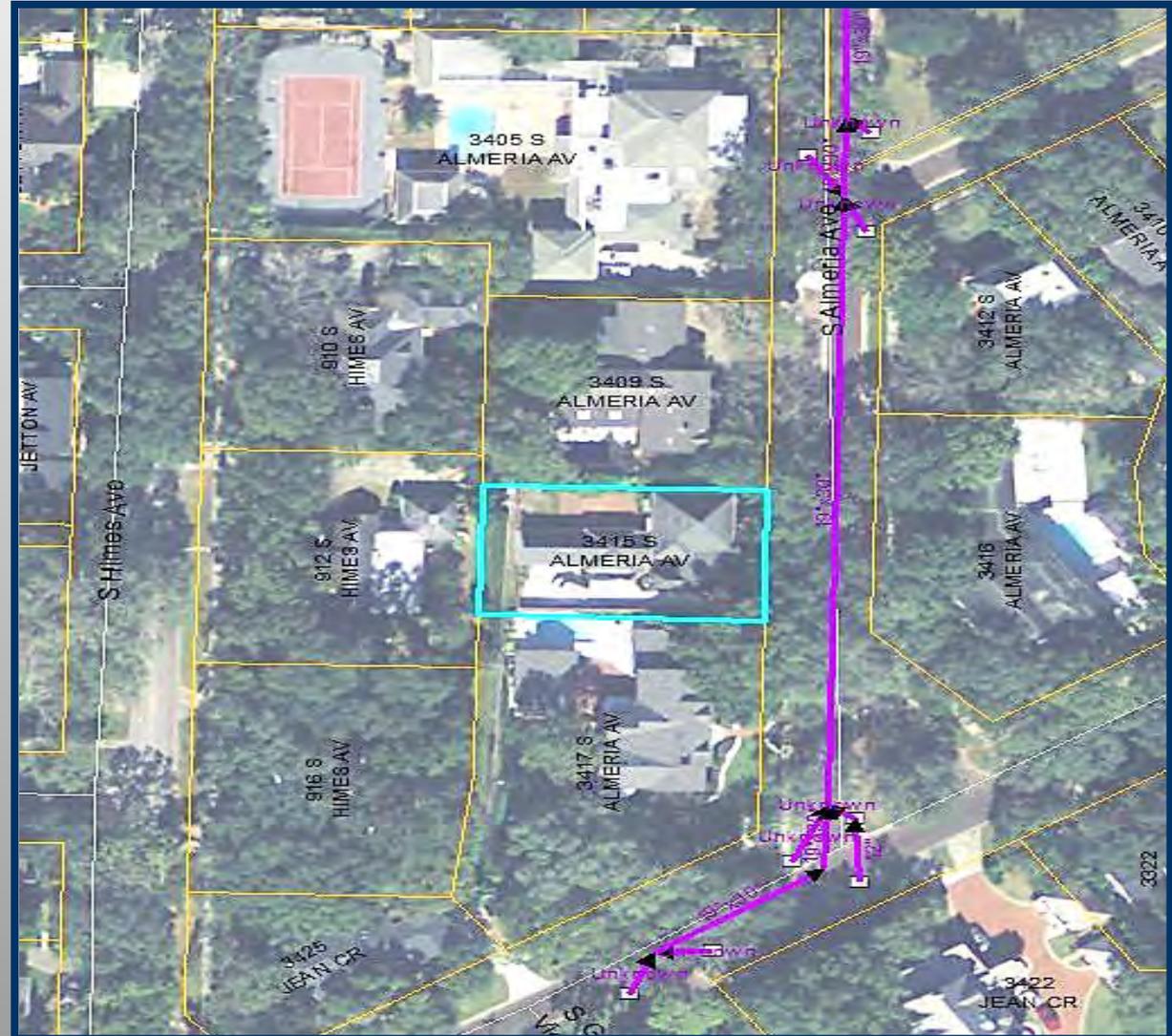
Root system of existing Oak trees has damaged the brick paver road pavements and curb/gutter system extensively, thus blocking the overland drainage pattern of the street and creating flooding conditions at several locations along the street. Additional inlet/piping to be installed to existing system.

- **Related Issues:**

This drainage system is part of the regional drainage system to be upgraded in near future (Upper Peninsula Phase II project).



PROPOSED PROJECT MAP



Wyoming Flooding Relief Ph 1

Flooding Relief FY2015 - CCC

Estimated cost: \$150K

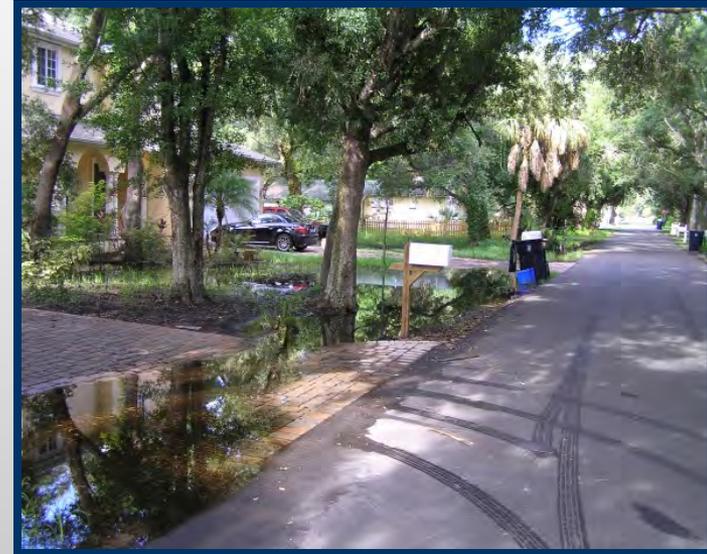
- **JUSTIFICATION:**

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.

- **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.

- **Related Issues:** This project will phased over two years.



2908 S Westshore Flooding Relief

Flooding Relief FY2015 - CCC

Estimated cost: \$100K

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.

PROJECT DESCRIPTION:

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

PROPOSED PROJECT MAP



PROJECT PHOTO

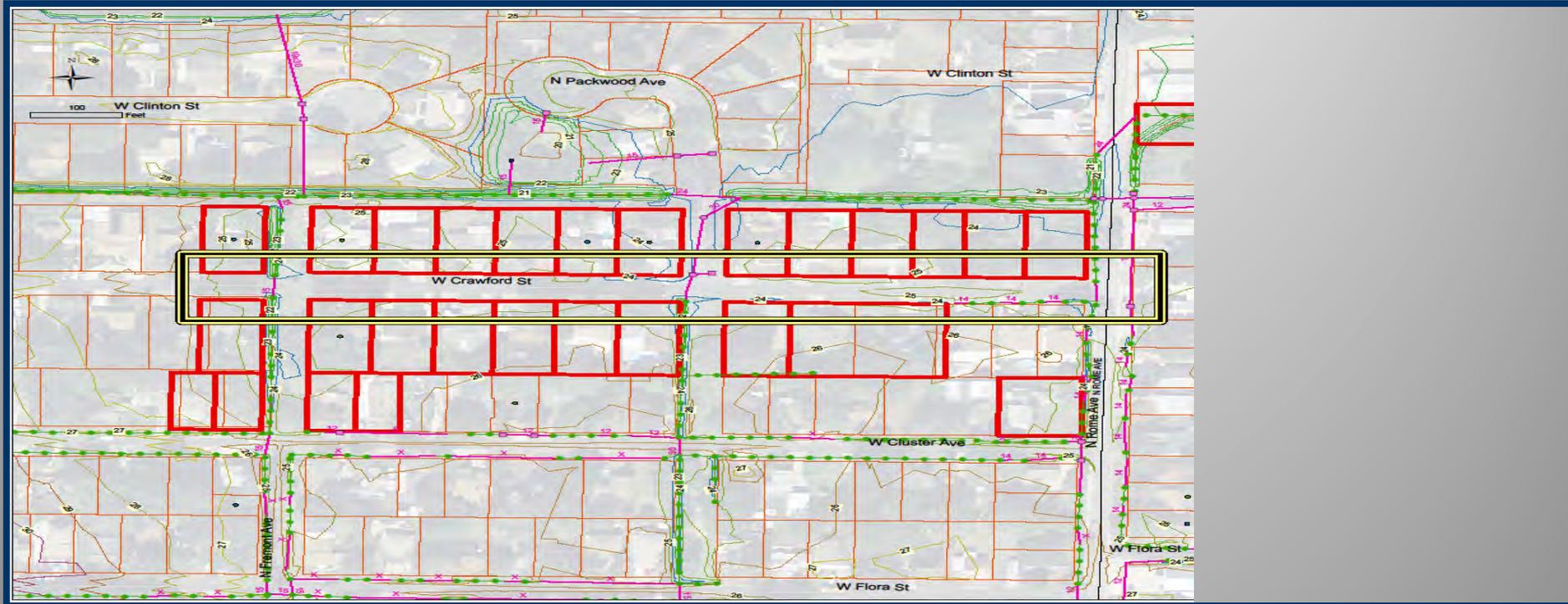


Crawford Street: Freeman to Rome

Flooding Relief FY2015 - CAD

Estimated cost: \$100K

PROPOSED PROJECT MAP



- **JUSTIFICATION:**

Localized flooding is experienced along Crawford Street, between Rome and Freemont.

- **PROJECT DESCRIPTION:**

Storm pipe and inlet system will be installed to alleviate flooding.

- **Related Issues:**

Redline properties are reported along both sides of Crawford St.

Albany: Barclay to Mariana

Flooding Relief- FY2015 - CCC

Estimated cost: \$100K

- **JUSTIFICATION:**

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

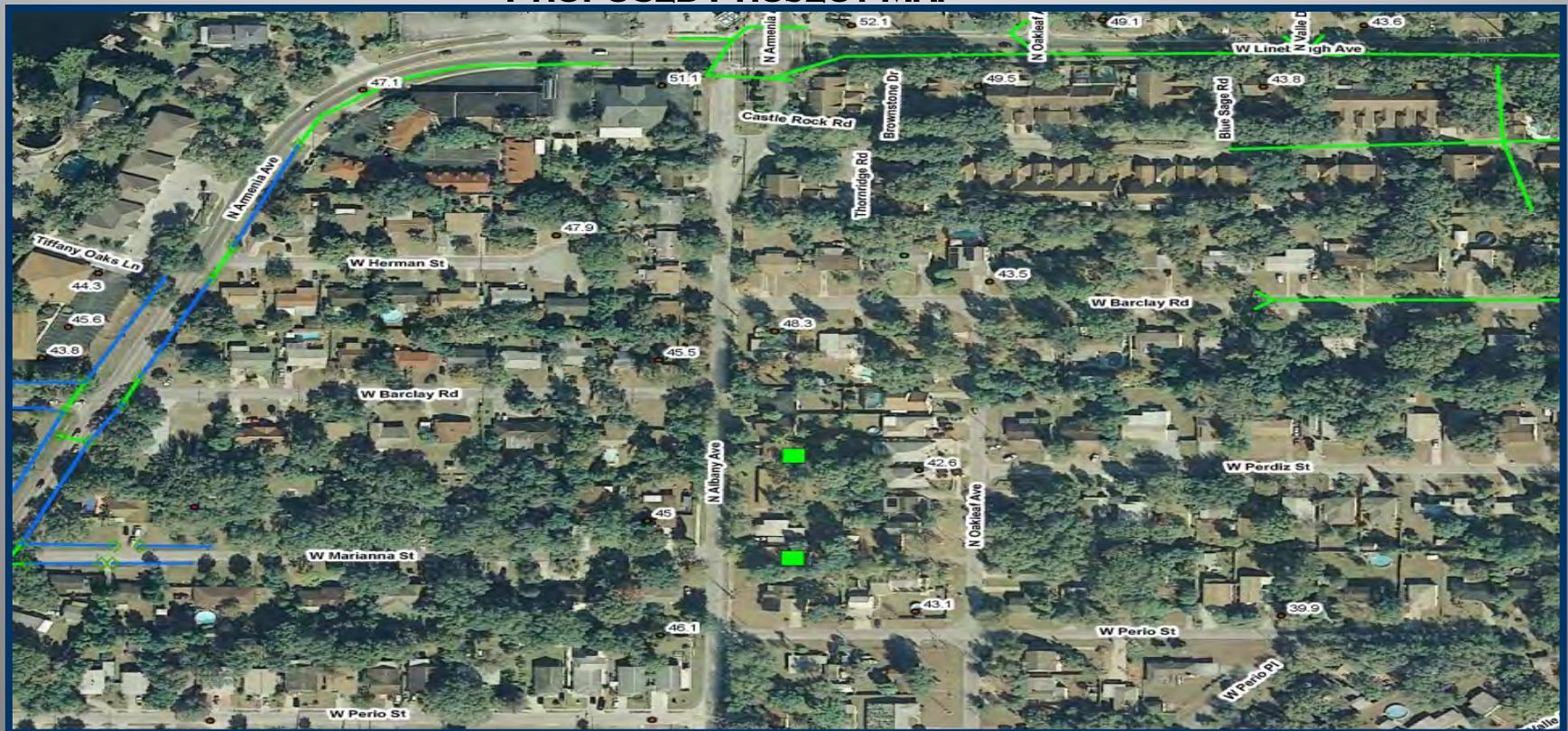
- **PROJECT DESCRIPTION:**

Evaluating Exfiltration trench option. Construction of approximately 1100 lf of new pipe inlets to convey runoff to existing system in Barclay Avenue is option B.

- **Related Issues:**

Commitment letter sent for FY 2015.

PROPOSED PROJECT MAP



Bernini Alley

Flooding Relief FY2015 - CCC

Estimated cost: \$50K

PROPOSED PROJECT MAP



- **JUSTIFICATION:**

Stormwater conveyance from Alley behind Bernini restaurant to abutting street is causing a sidewalk crossing concern. The project will provide flooding relief.

- **PROJECT DESCRIPTION:**

Construction of new pipe and inlets to collect and convey runoff to existing system in N. 17th St.

Pawnee Flooding Relief

Flooding Relief FY2015 - CCC

Estimated cost: \$100K

- **JUSTIFICATION:**

Roadway and yard flooding occurs along Pawnee between Linebaugh and 98th Street. There is currently no stormwater conveyance or curb and gutter at this location. The project is desirable because it will provide relief for localized flooding.

- **PROJECT DESCRIPTION:**

Construction of curb and gutter, roadway regrading, lateral and new inlets to convey runoff to existing system at Oklawaha Avenue.

PROPOSED PROJECT MAP



Idell Street Roadway Improvements PH I

Flooding Relief FY2015 - CCC

Estimated cost: \$100K

JUSTIFICATION:

Tampa Police Department has requested to open the unimproved portion of E. Idell Street east 150' to E. Mulberry Dr. Transportation Engineering has hired Faller Davis & Assoc. to model, permit and design roadway, pond and stormwater conveyance to relieve localized flooding due to trash and tree debris as well as install new roadway. Stormwater in house construction crews will be responsible for installing the laterals and proposed ditch outfall to river.

PROJECT DESCRIPTION:

Construction of roadway features, stormwater laterals, new inlets and ditch to convey runoff to the Hillsborough River.

Related Issues:

Site located at 1911 E. Mulberry is in property acquisition for proposed outfall/ditch location.

PROPOSED PROJECT MAP

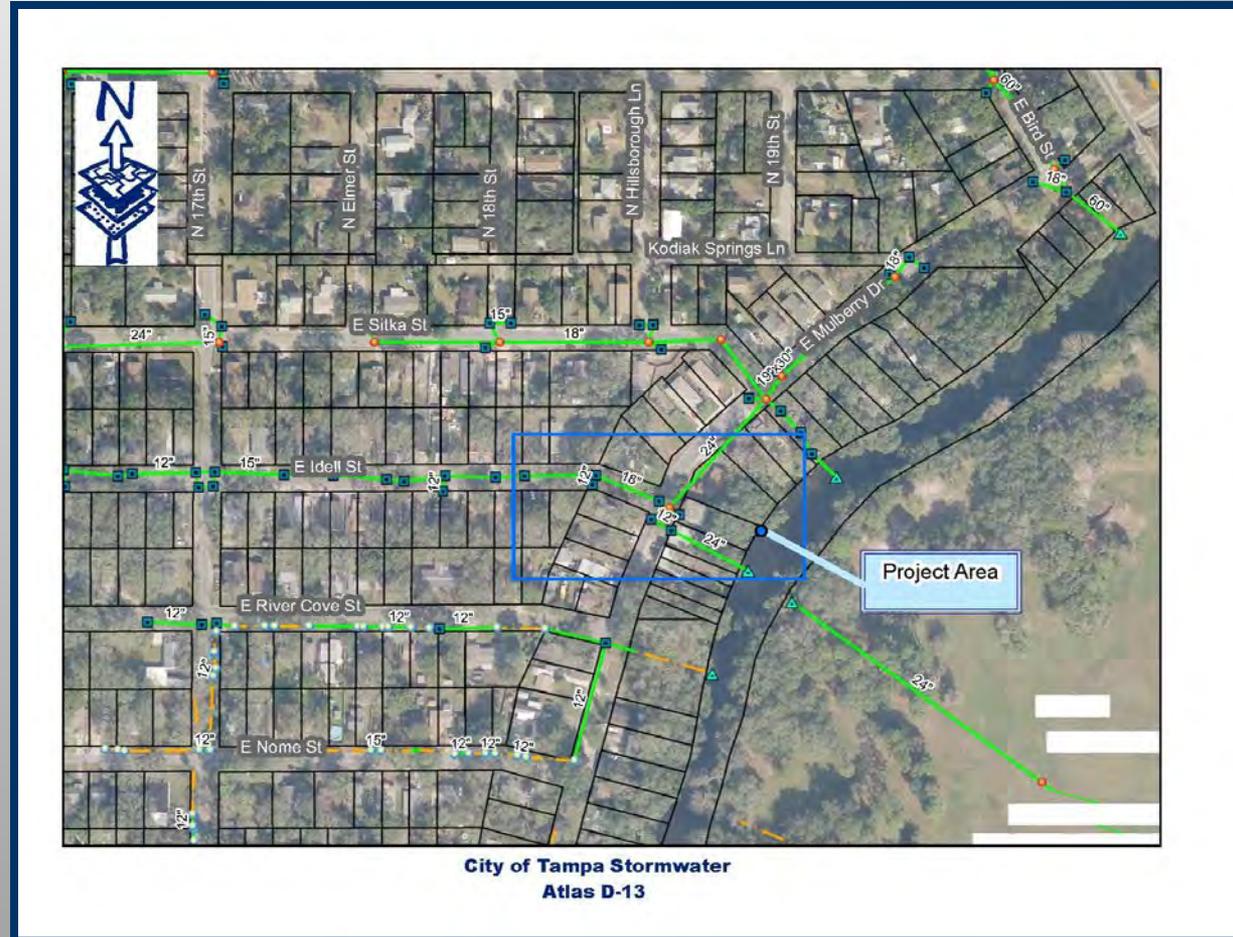


Idell Street Roadway Improvements PH II

Flooding Relief FY2015 - CCC

Estimated cost: \$50K

PROPOSED PROJECT MAP



JUSTIFICATION:

Tampa Police Department has requested to open the unimproved portion of E. Idell Street east 150' to E. Mulberry Dr. Phase II will include permitting and design for the new outfall ditch. Stormwater in house construction crews will be responsible for installing the laterals and proposed ditch outfall to river.

PROJECT DESCRIPTION:

Construction of new ditch and outfall from the 1911 E. Mulberry site to the Hillsborough River.

Related Issues:

Site located at 1911 E. Mulberry is in property acquisition for proposed outfall/ditch location.

47th and Frierson Pond PH II

Flooding Relief FY2015 - CCC

Estimated cost: \$150K

JUSTIFICATION:

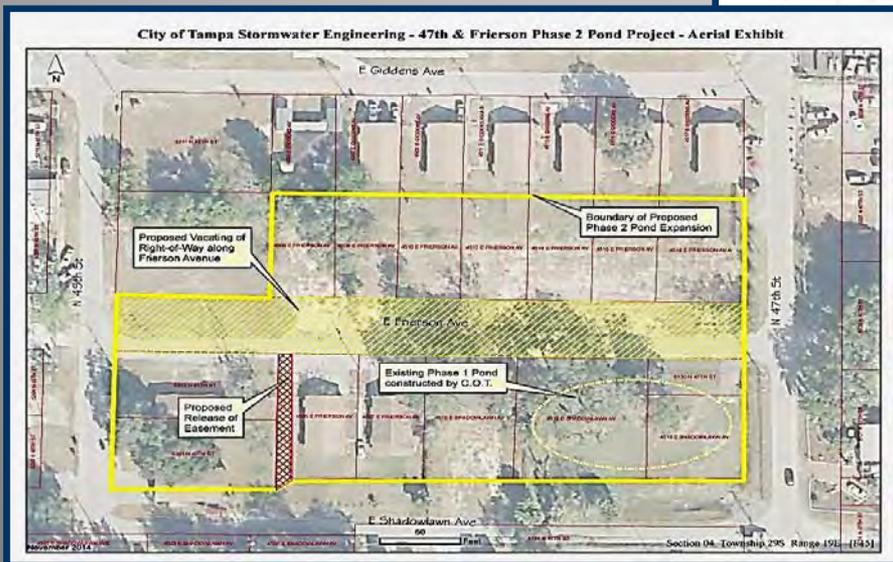
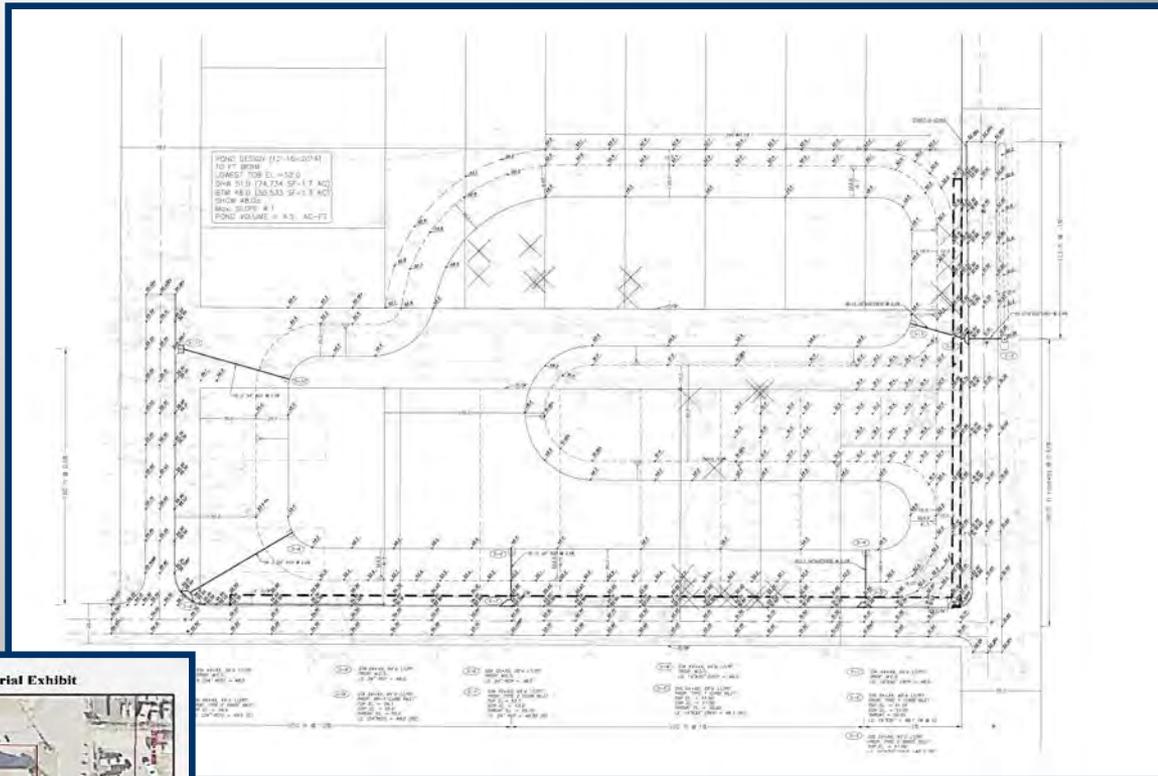
Due to closed basin and lack of drainage system, City will be expanding drainage capacity in the Frierson Ave & 47th Street area to help alleviate flooding problems. Besides pond expansion in Phase 2, roadway repaving and re-routing of water system will be part of the pond construction work.

PROJECT DESCRIPTION:

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

RELATED ISSUES:

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



PROPOSED PROJECT MAP

Lantana: 109th to 113th
Flooding Relief FY2015 - CCC
Estimated cost: \$100K

PROPOSED PROJECT MAP

• **JUSTIFICATION:**

Flooding is occurring along Lantana, due to the lack of positive outfall. Runoff is restricted by a railroad right-of-way, approximately 4 feet above the street grade.

• **PROJECT DESCRIPTION:**

Selected design alternative is to pipe drainage north along Lantana to discharge to existing manhole with stub out, which then discharge to pump station system at the newly constructed pond.

