

STORMWATER PROJECTS

PASCO COUNTY RESTORE

August 23, 2016

Pasco Stormwater Projects

- Port Richey Watershed
- Property Acquisition
- Hammock Creek / Sea Pines
- Forest Hills
- Cypress Creek
- PACE Analysis

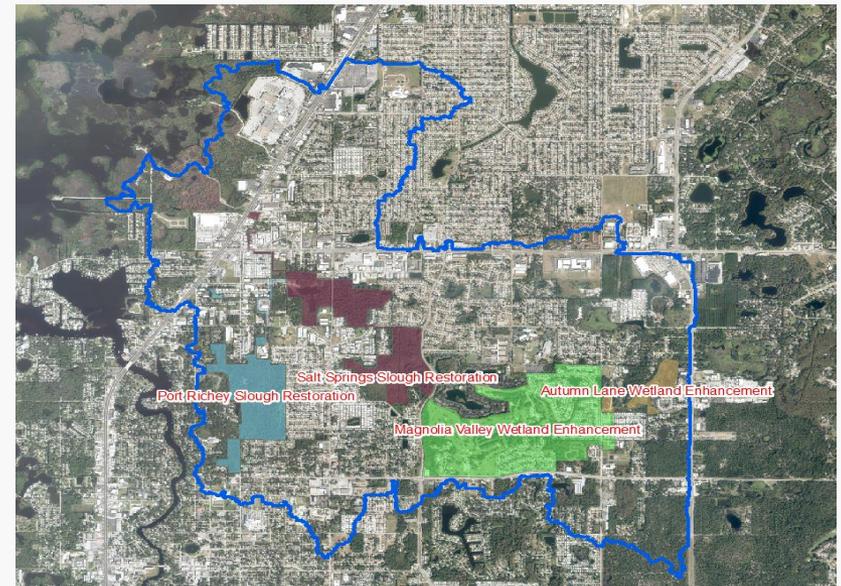


Port Richey Watershed

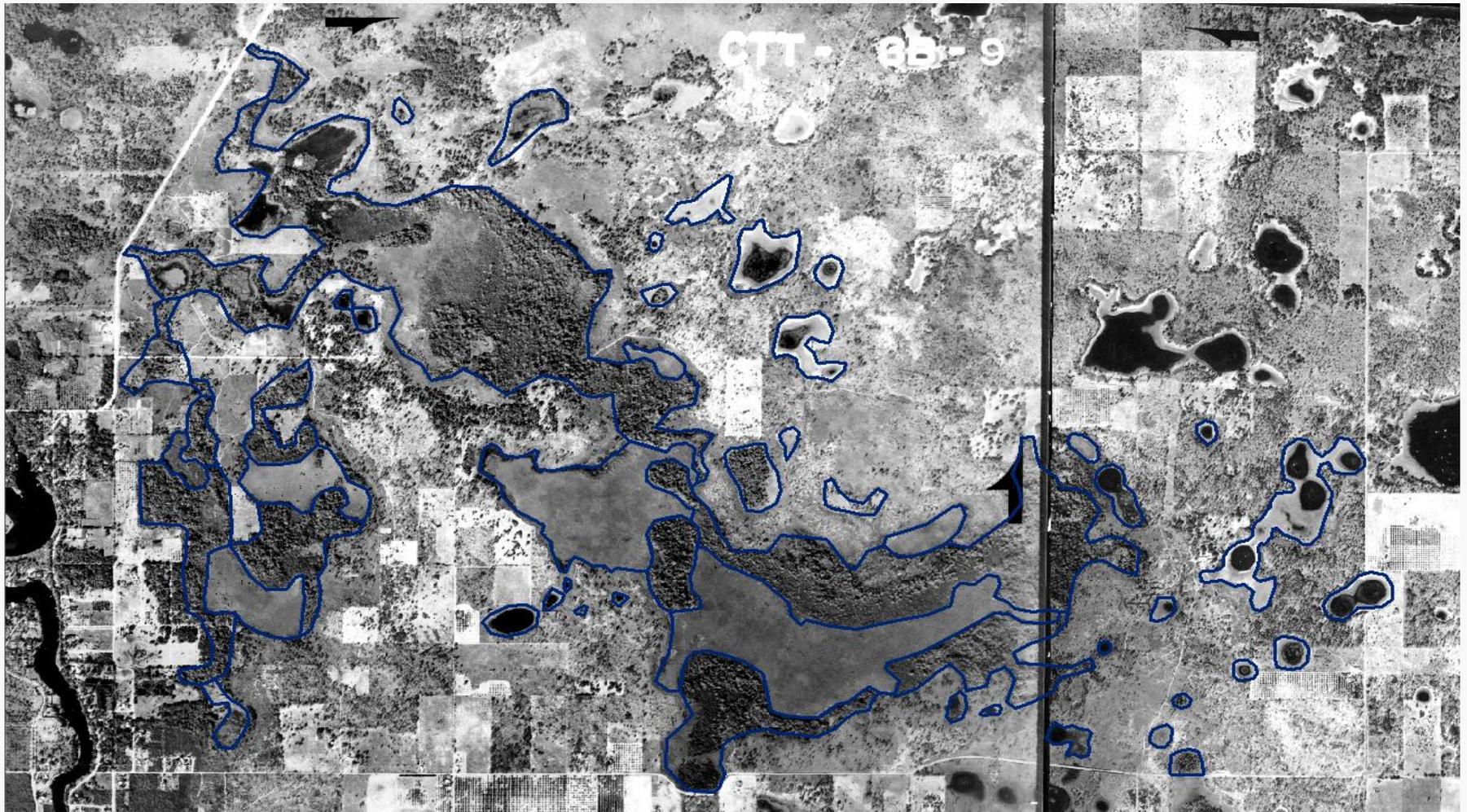
Purpose: Restoration and Protection of Natural Resources

The environmental enhancement of remnant sloughs and wetlands in the Port Richey Watershed consists of 4 improvement areas. Wetland creation opportunities will be included where uplands exist along the conveyance way to provide water quality improvements. All of the enhancement areas discharge eventually to the Salt Springs area on the west side of US Highway 19, which is currently verified to be impaired for nutrients. Benefits include natural systems improvement, water quality, and flood prevention.

Project Areas	Estimate
Magnolia Valley	\$5,000,000
Autumn Lane	\$100,000
Salt Springs Slough	\$135,000
Port Richey Slough	\$120,000
Total	\$5,355,000



Port Richey Watershed



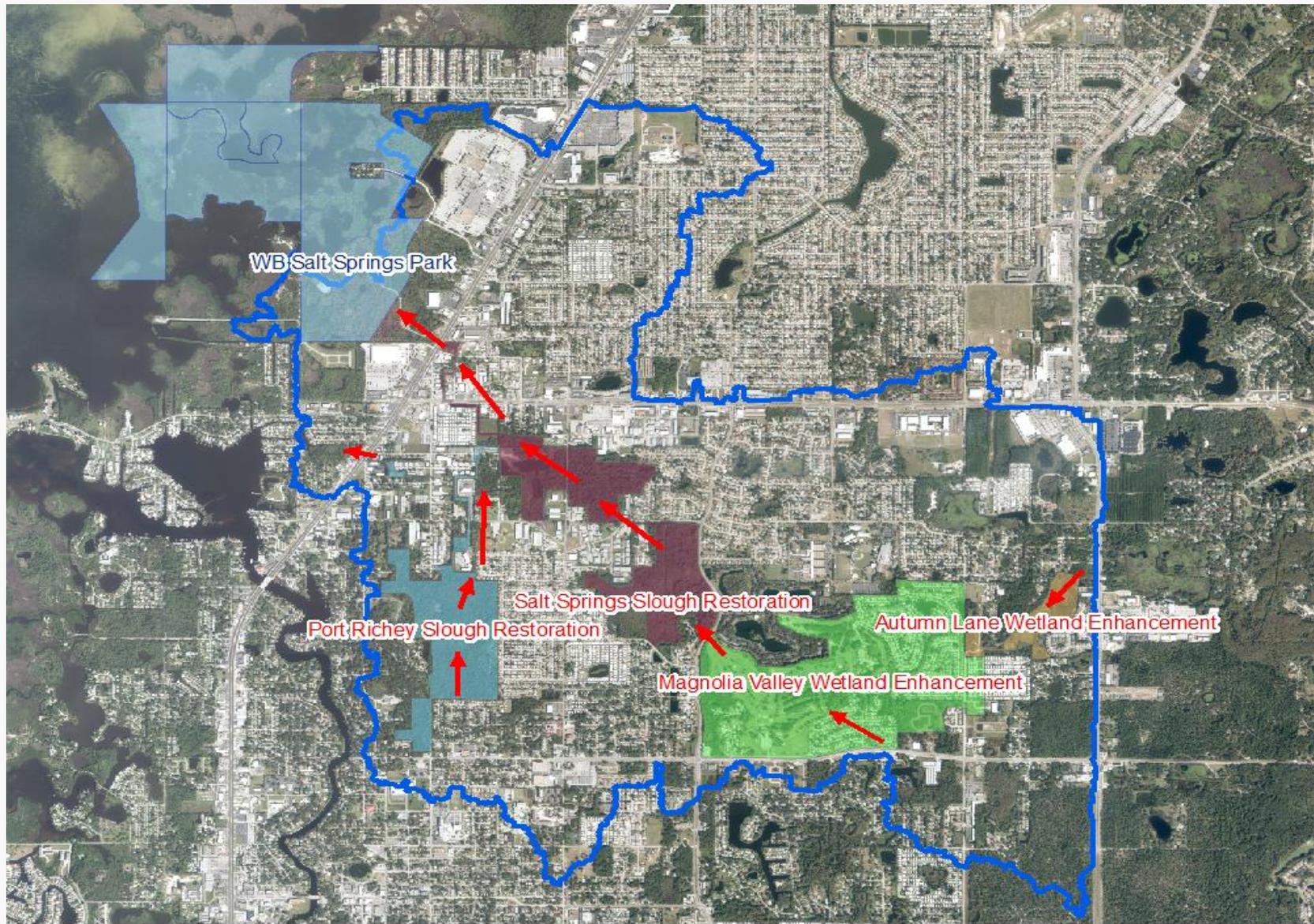
1941 Aerial with outlines showing historic wetlands systems

Port Richey Watershed



2014 Aerial with outlines showing historic wetlands systems

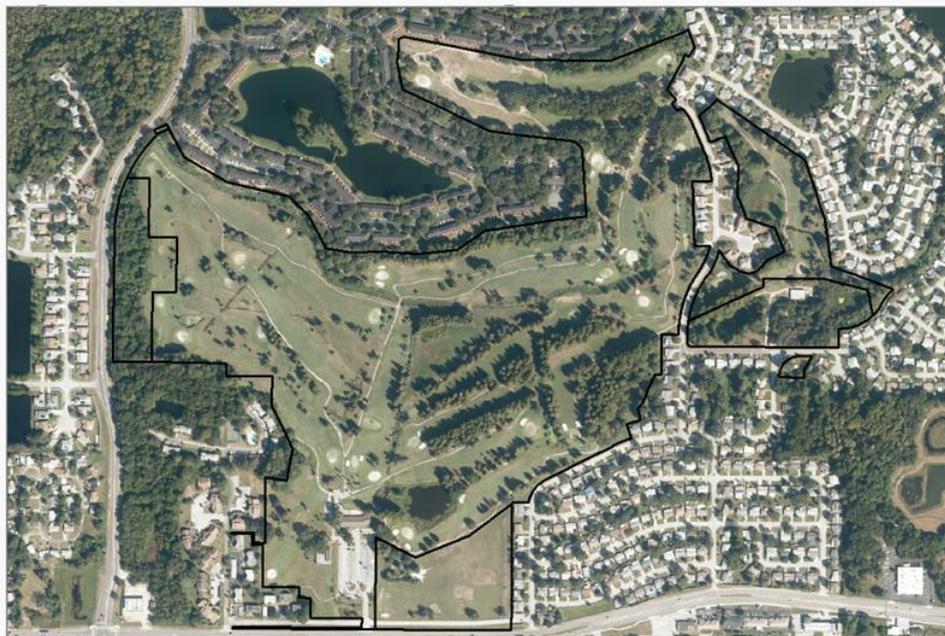
Port Richey Watershed



Port Richey Watershed

Magnolia Valley Wetland:

The Magnolia Valley Wetland Enhancement Area is in the conceptual planning and land acquisition phases. The County and the SWFWMD are cooperatively funding the golf course land acquisition and repair of existing pumping facilities that date back to the 1960s. Further conceptual planning, design and permitting are required to implement the wetland creation and enhancements. This project area is expected to create wetland areas, improve water quality, and reduce the risk of flooding through additional stormwater storage. Request for SWFWMD cooperative funding will be submitted in 2016.



Magnolia Valley	Estimate
Acquisition	Complete
Design & Permitting	\$1,000,000
Construction Pasco	\$4,000,000
Pasco Total	\$5,000,000
Construction SWFWMD	\$5,000,000
Total	\$10,000,000

Port Richey Watershed

Autumn Lane Wetland Enhancement: Conceptual Cost \$100,000

This requires the acquisition of a wetland system and its connections to downstream wetlands (Magnolia Valley area). The concept is to enhance wetland areas impacted by development and changes to the area's conveyance ways.

Salt Springs Slough Restoration and Water Quality Improvement: Conceptual Cost \$135,000

This Slough is contiguous to waters of the Gulf of Mexico. This system is currently verified to be impaired for nutrients. The Salt Springs Slough Restoration requires the acquisition of wetland systems and conveyance ways connecting the series of wetlands to the gulf. The concept is to enhance wetland areas impacted by development, and realignment of flow paths. The analysis will include a water quality pollutant load analysis and net improvement considerations for the nutrient impairment.

Port Richey Slough Restoration: Conceptual Cost \$120,000

The Port Richey Slough Restoration requires the acquisition of wetland systems and construction of improved conveyance ways connecting the series of wetlands to the gulf. Portions of the County, Port Richey and New Port Richey discharge to this slough. The concept is to enhance wetland areas impacted by development, and realignment of flow paths..

Questions?



Property Acquisition

Purpose: Properties have been identified in three specific areas which, if acquired, will greatly reduce/alleviate flooding. By including these properties in our current inventory we can: 1) create new ponds and storm drainage networks, 2) add flood control structures, and 3) improve water quality via a reduction of runoff and sediment volumes currently discharging into the Gulf of Mexico.



Phase	Estimate
Anclote River	\$867,130
Lake Worrell	\$1,247,170
Holliday Hills/Gainsboro	\$1,100,000
Total	\$3,214,300

Property Acquisition - Ancloste River



Property Acquisition

Anclote River: Acquisition of properties along the river to return the area to the natural condition. This also ties into the Parks Master Plan to provide additional canoe and kayak launch areas along the Anclote River. Many lots along Elfers Parkway have been damaged by floodwaters over time. This area is designated as a Repetitive Loss Area 5, and under the Local Mitigation Strategy we can accomplish three things:

1. Return the area to a more natural state and function
2. Creation of a canoe/kayak/park area
3. Mitigation of flood prone property

Phase	Estimate
Acquisition	\$656,210
Demolition & Other	\$210,920
Total	\$867,130



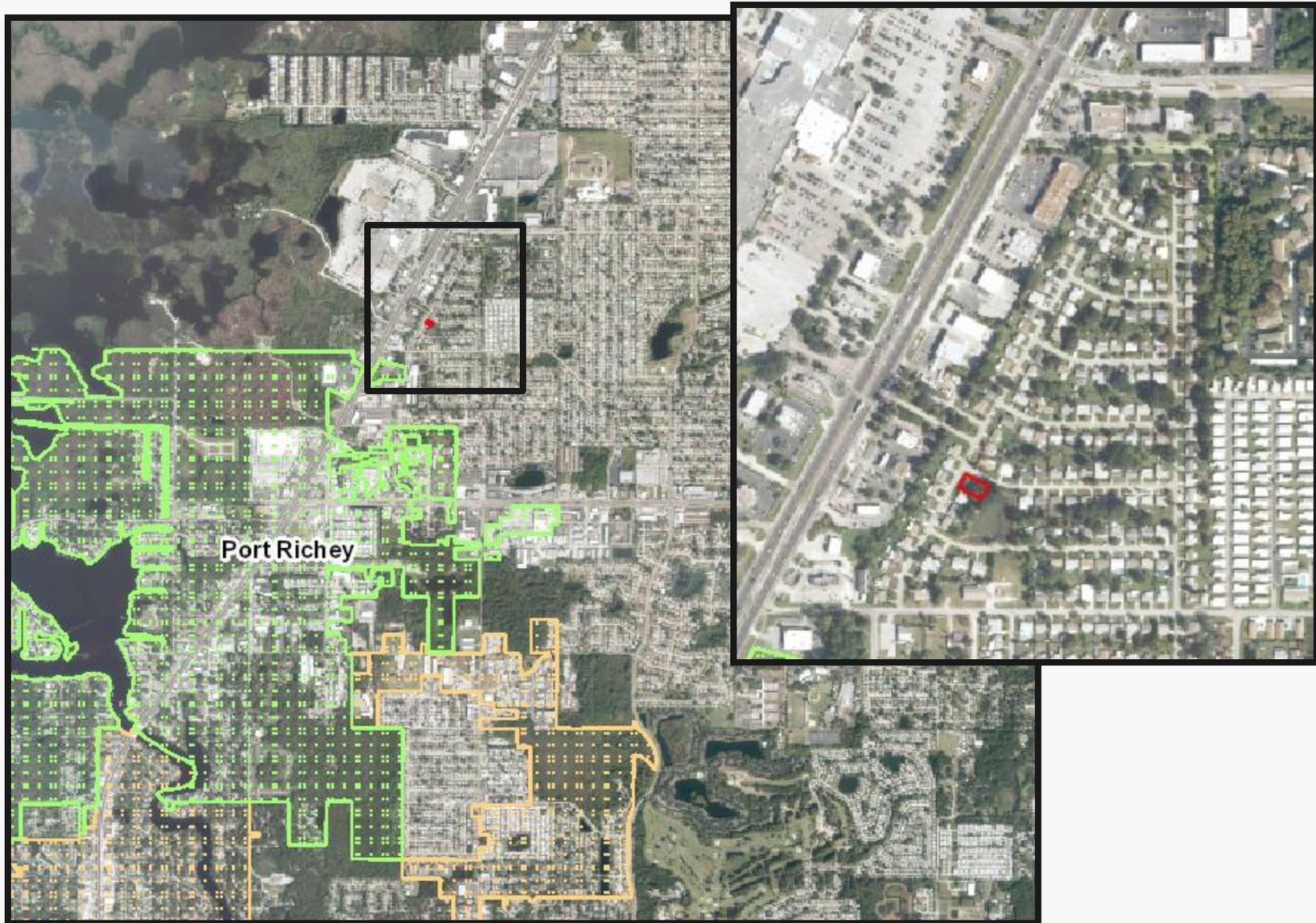
Property Acquisition

Lake Worrell: The plan would be to acquire those properties along the lake side of Cameo Drive and along Sunrise Lane within Repetitive Loss Area 2. This area is an older community and the properties are within an area platted as lake. This would result in:

- 1) Fewer flood-prone properties—directly diminishing our repetitive loss areas,
- 2) The return of the area to its natural state and function, and
- 3) The reduction of area flood levels.

Phase	Estimate
Acquisition	\$1,012,240
Demolition & Other	\$234,930
Total	\$1,247,170

Property Acquisition - Gainsboro

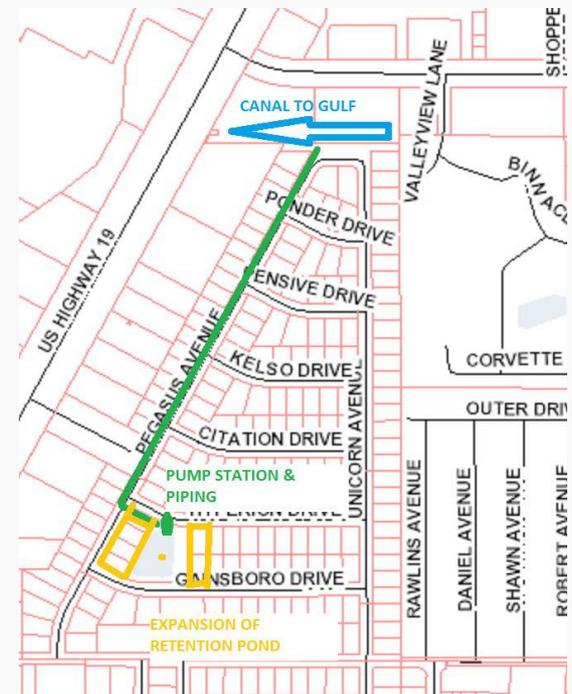


Property Acquisition

Holiday Hills: The plan would be to acquire up to six (6) properties adjacent to the retention pond within repetitive loss area 16, expand the existing retention pond and install an additional pump and pipe with backflow devices to discharge to the northern area of the subdivision into the existing canal which has direct discharge to the Gulf of Mexico. This would result in:

- 1) Fewer flood-prone properties,
- 2) The significant reduction of area flood levels, and
- 3) The return of the area to a more natural state.

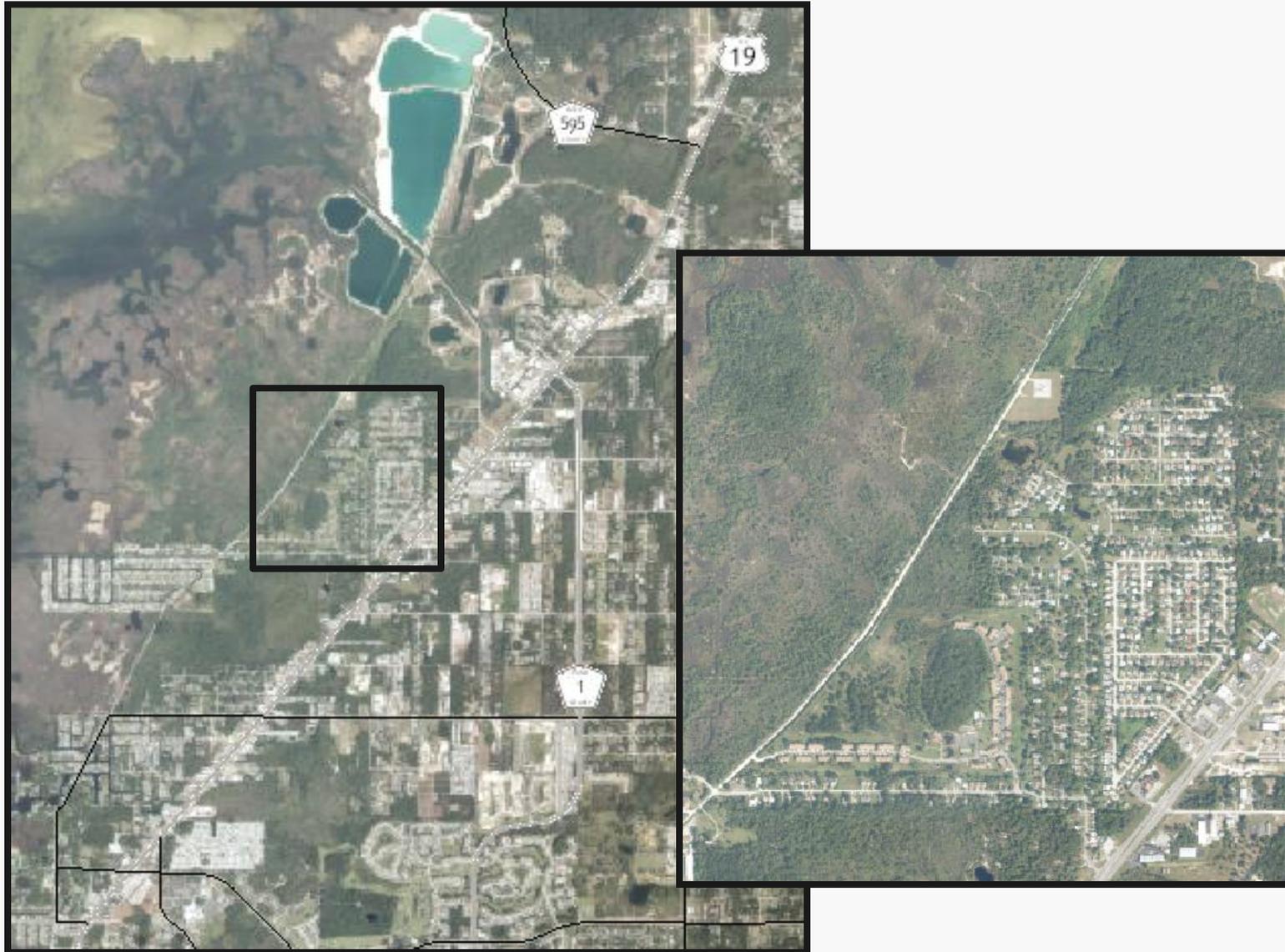
Phase	Estimate
Acquisition	\$285,220
Demolition & Other	\$90,510
Construction	\$724,270
Total	\$1,100,000



Questions?



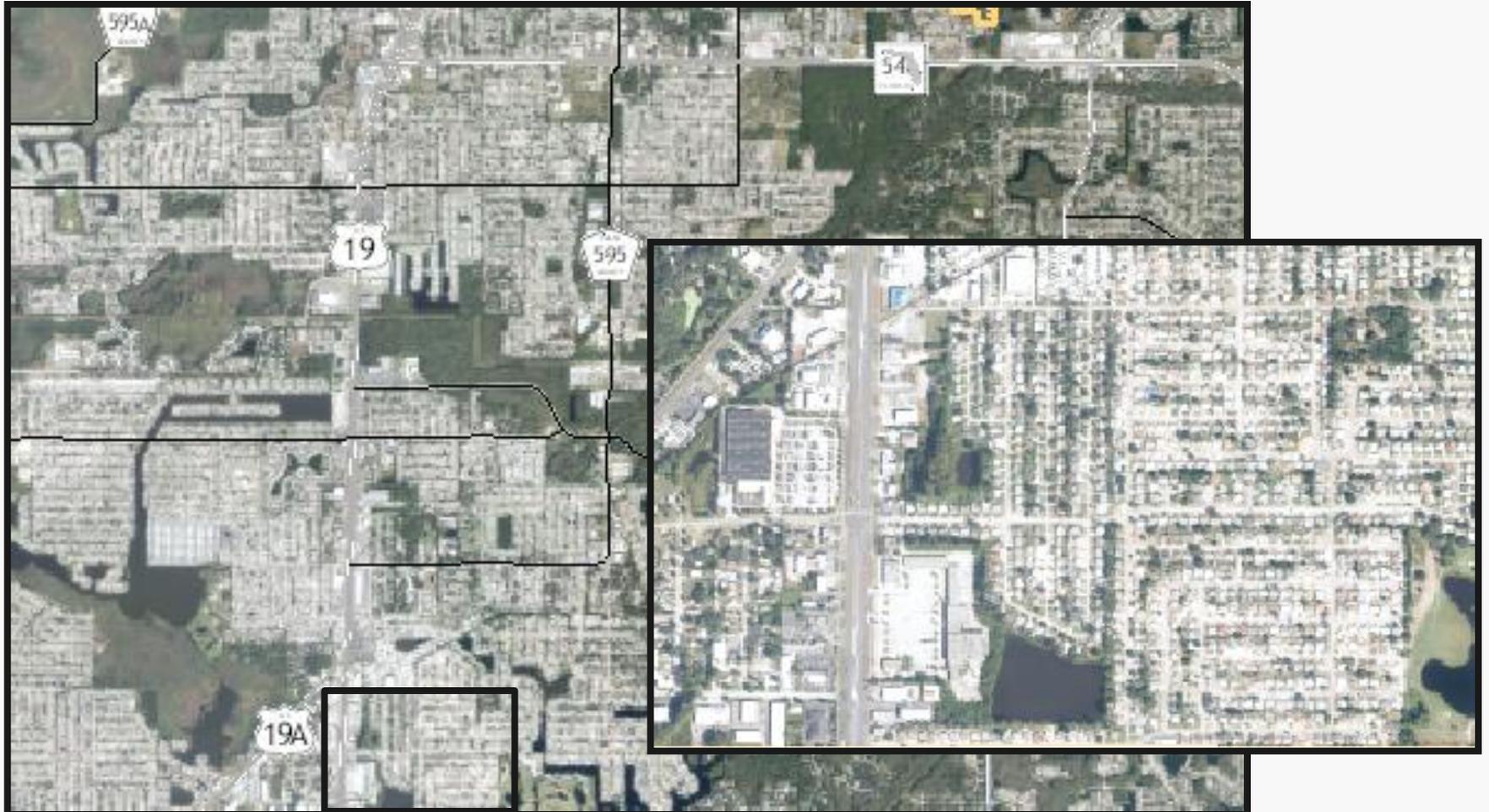
Hammock Creek – Sea Pines



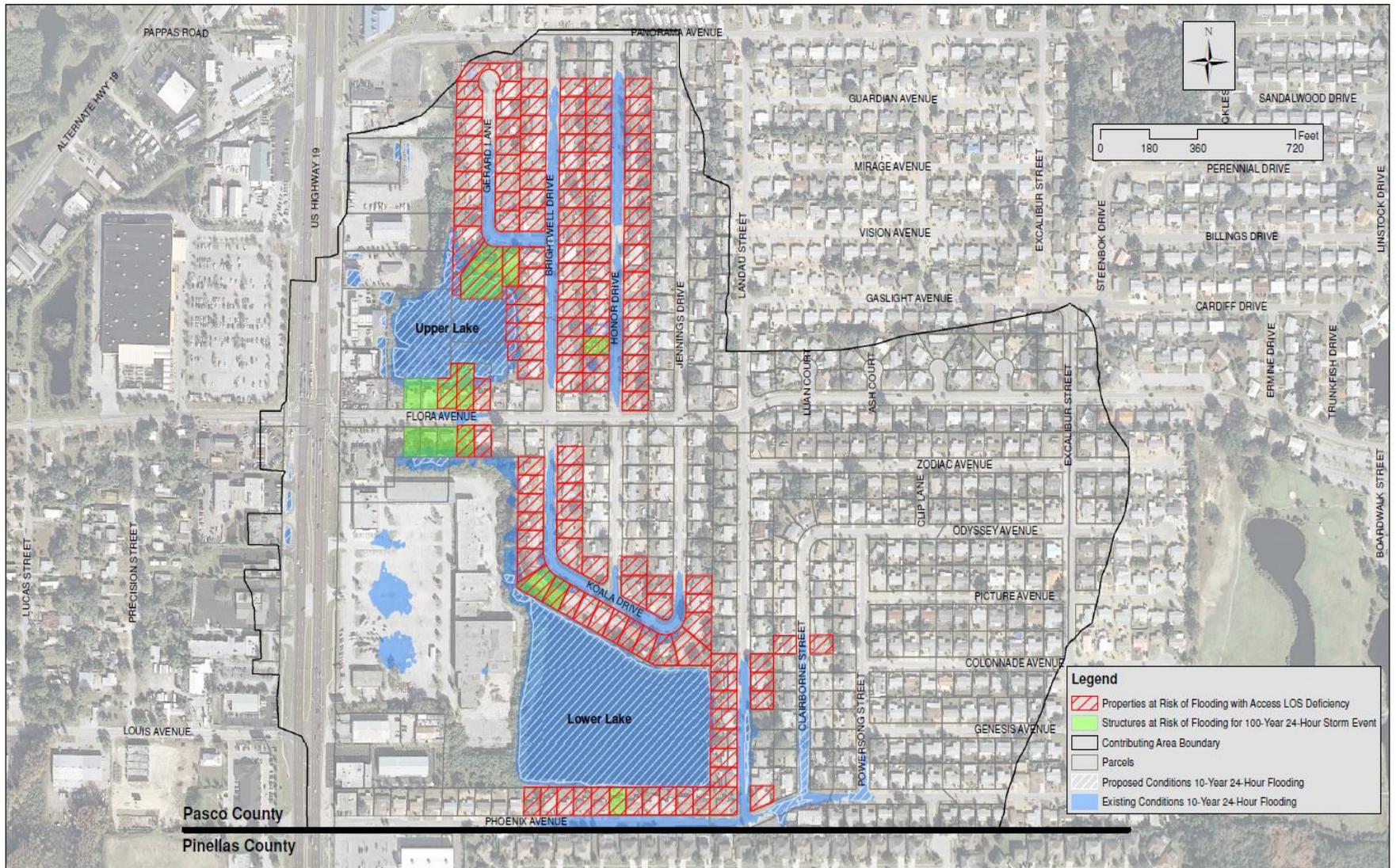
Questions?



Forest Hills



Forest Hills



Forest Hills

Purpose: This endeavor consists of three phases intended to decrease flooding and improve water quality—within both the basin and the Gulf of Mexico. This project would improve existing storm-water conveyance through the up-sizing of existing conveyances and adding additional conveyances. Proposed inlets would be fitted with baskets and/or skimmers to reduce levels of pollutants being discharged into the Gulf of Mexico via the mouth of the Anclote River.

Project Areas:

Forest Hills –Outfall

- Upsized outfall pipe. Current outfall structure is failing.

Forest Hills – West

- Project includes upsized pipes, new pipes, reconstructed inlets and curbing.

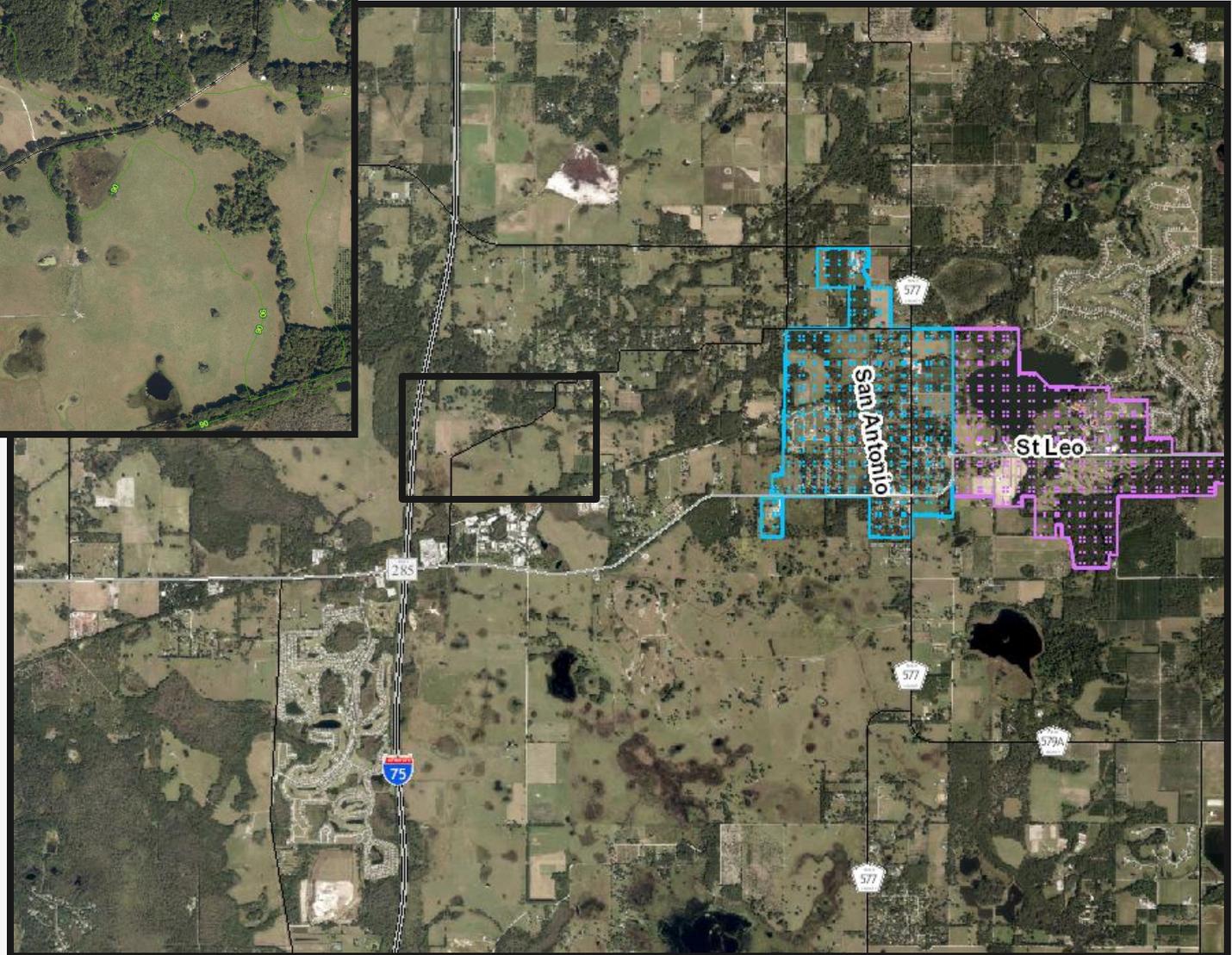
Forest Hills – Conveyance

Phase	Estimate
Outfall	\$750,000
West Design	\$240,939
West Construction	\$2,000,000
Conveyance Design	\$150,000
Conveyance Const.	\$2,800,000
Total	\$5,941,000

Questions?



Cypress Creek



Cypress Creek

Purpose: Infrastructure repair and improvement.

Replacement of three large (108-inch by 78-inch) failing Elliptical Corrugated Metal Pipes with Concrete Box Culverts at the Pasco Road crossing of the Stanley Branch in the Upper East Cypress Creek Watershed.

Replacement would reduce the chance of a major failure which would result in flooding, road closures, and property damage.



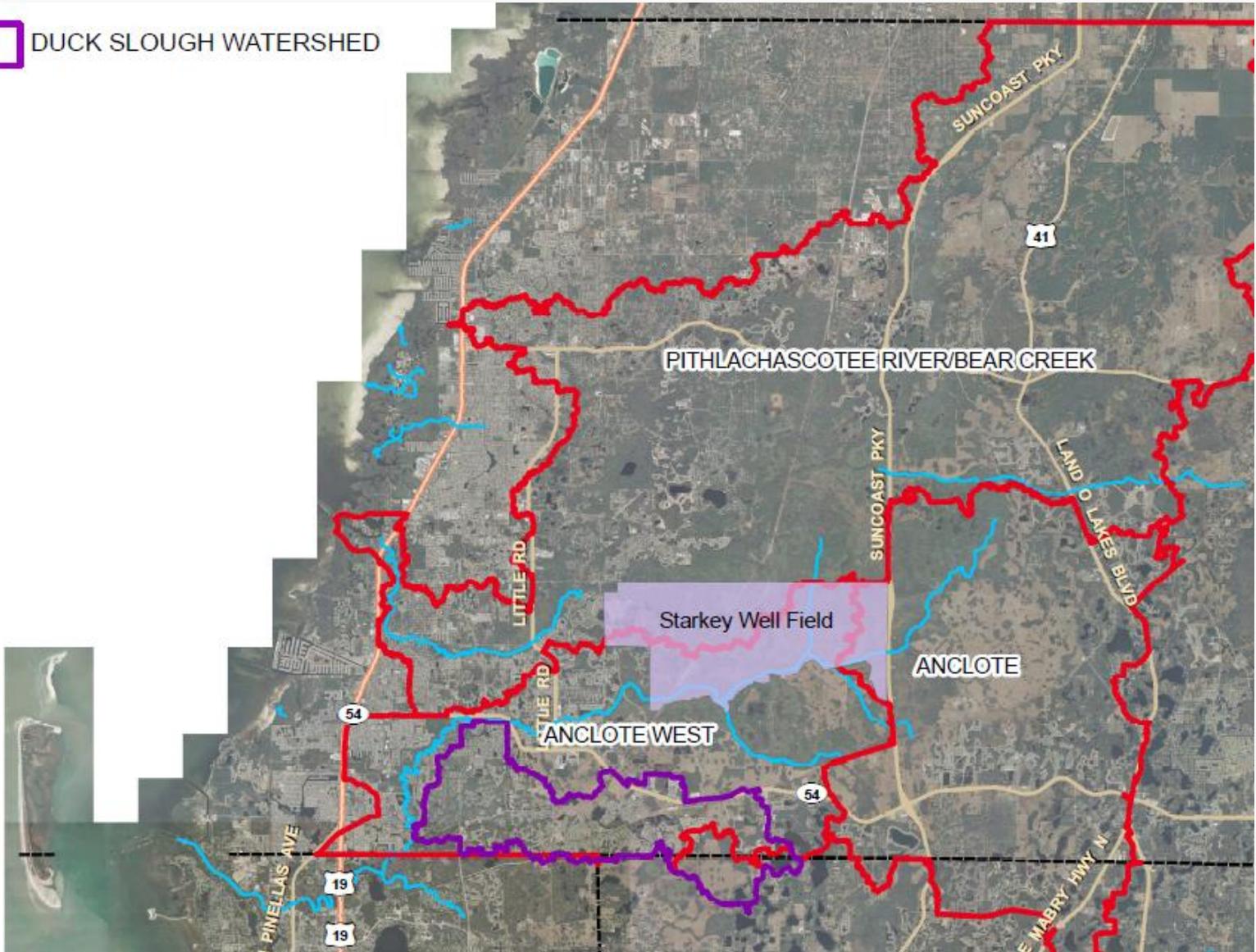
Phase	Estimate
Engineering	Complete
Permitting	Complete
Construction	\$500,000
Total	\$500,000

Questions?



PACE

 DUCK SLOUGH WATERSHED



PACE

Purpose:

This project entails a study to assess the feasibility of diverting excess flows from the Pithlachascotee and Anclote Rivers onto available SWFWMD property to better manage water resources by decreasing flooding and downstream pollution, while increasing aquifer recharge.



Phase	Estimate
Engineering	\$1,000,000
Total	\$1,000,000

Questions?

