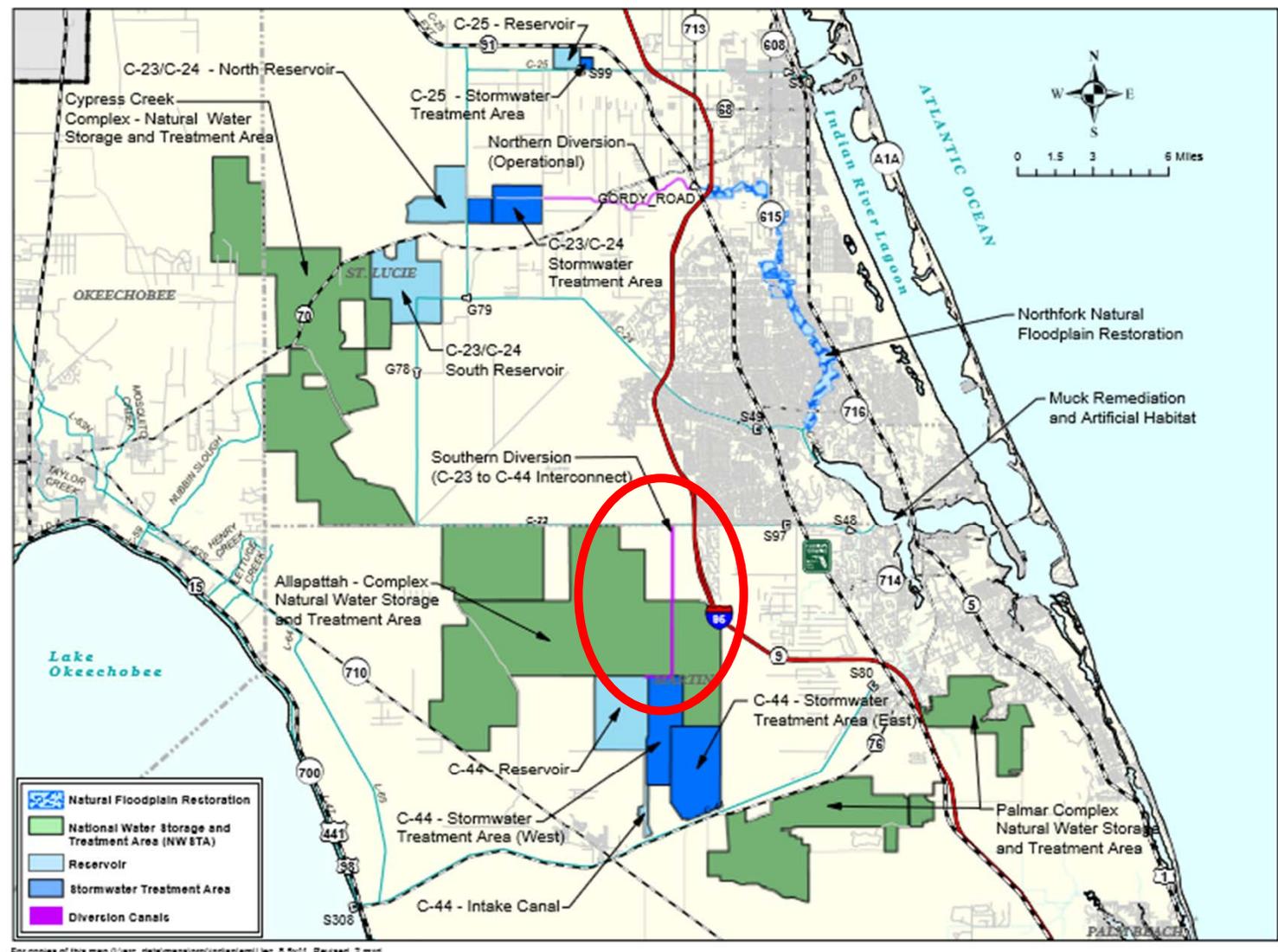


Indian River Lagoon: C-23 to C-44 Interconnect

Jennifer Reynolds, Division Director
Ecosystem Restoration and Capital Projects
Governing Board
September 10, 2020

CERP: Indian River Lagoon-South (IRL-S) Components



C-44 Reservoir and STA

Southern Diversion – C-23/C-44 Interconnect

C-23/C-24 North and South Reservoirs and STA

Northern Diversion – discharge from the STA to the North Fork of the St. Lucie Estuary

C-25 Reservoir and STA

Natural Lands Component

- Cypress Creek
- Allapattah Complex
- Palmar Complex

For copies of the map (0:\arc_data\map\proj\indian\am\lic_3_2011_revised_2.mxd

C-23 to C-44 Interconnect

- Potential to divert 53,000 ac-ft of water annually, currently discharged to the St. Lucie River and Estuary
- When S-97 is flowing, up to 250 cfs is pumped from the C-23 into the Interconnect canal, where it flows south to the C-44 Reservoir
- Water is stored and flows through the STA before entering the C-44 Canal



C-23 to C-44 Interconnect

Benefits:

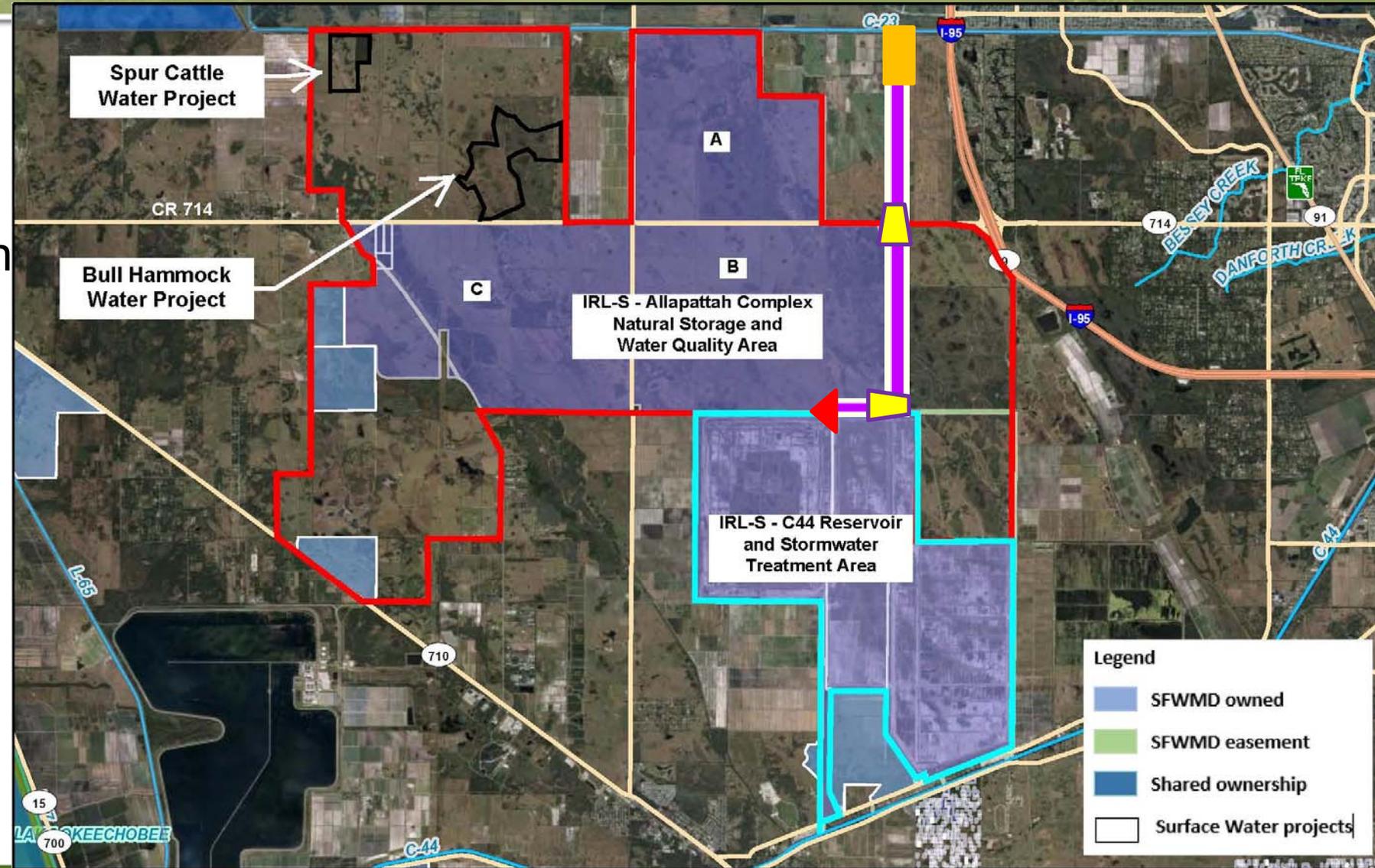
- Improves water quality in the St. Lucie Estuary
 - Removes 13.4 metric tons of phosphorus and 31 metric tons of nitrogen, on annual average (2007 PIR estimate)
- Brings flows to the Estuary closer to natural pattern



C-23 to C-44 Interconnect

Project Features:

-  250 cfs pump station
-  Canal and levee
-  Culverts at road crossings
-  Spillway at the C-44 Reservoir Perimeter Canal



Relationship to the C-44 RSTA Project

- C-44 Reservoir and STA (RSTA) were designed anticipating the flows from the Interconnect.
- The C-44 RSTA and the Interconnect will operate together to provide storage and water quality benefits.
- For purposes of the Florida Forever Work Plan, the lands needed for the Interconnect are considered part of the C-44 RSTA project, rather than a separate IRL-S feature.

Interconnect Land Needs

- Existing Easement- 3 miles
 - Separated from Allapattah project lands by an FPL Easement
 - Located on private land



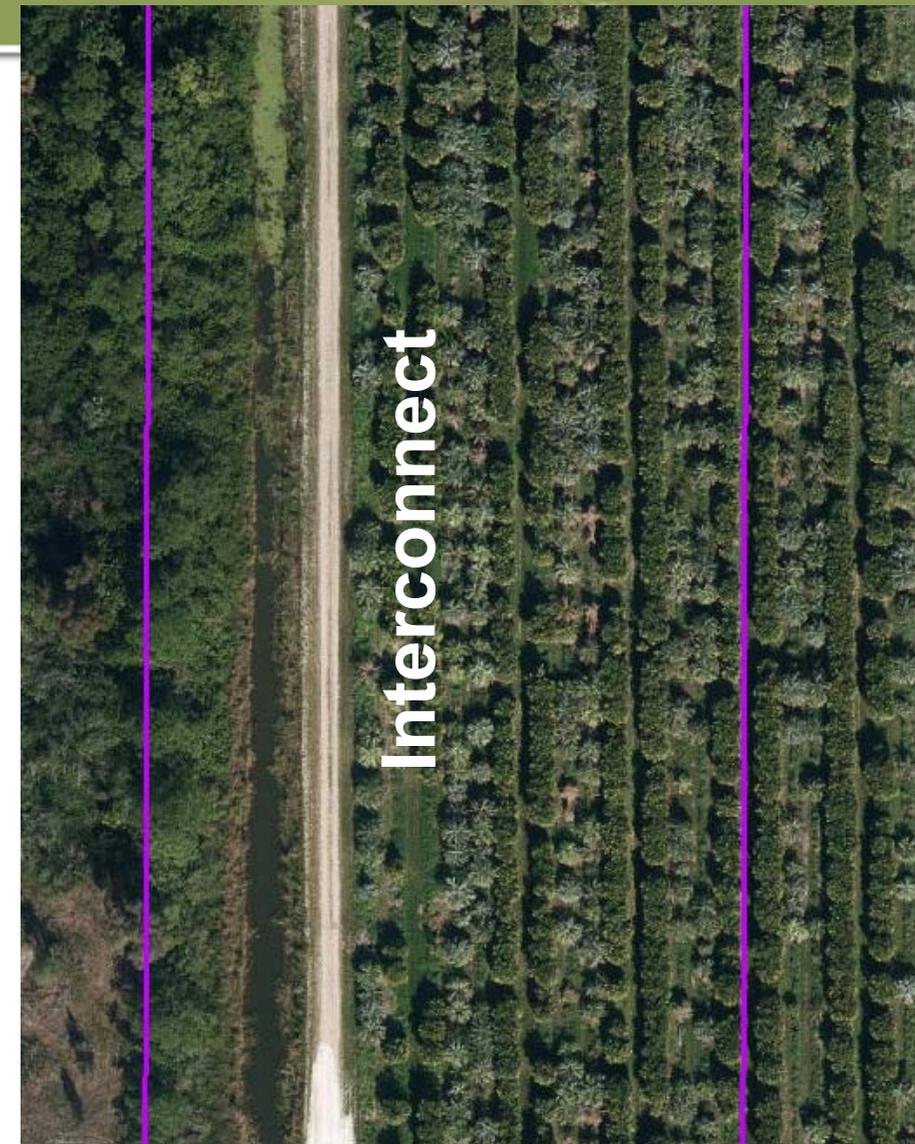
Allapattah Parcel B- District Lands

FPL Transmission Line Easement

Existing SFWMD Easement

Interconnect Land Needs

- Proposed purchase
 - Turner Groves- former citrus
 - Currently- portions are an ornamental tree farm





Turner Groves

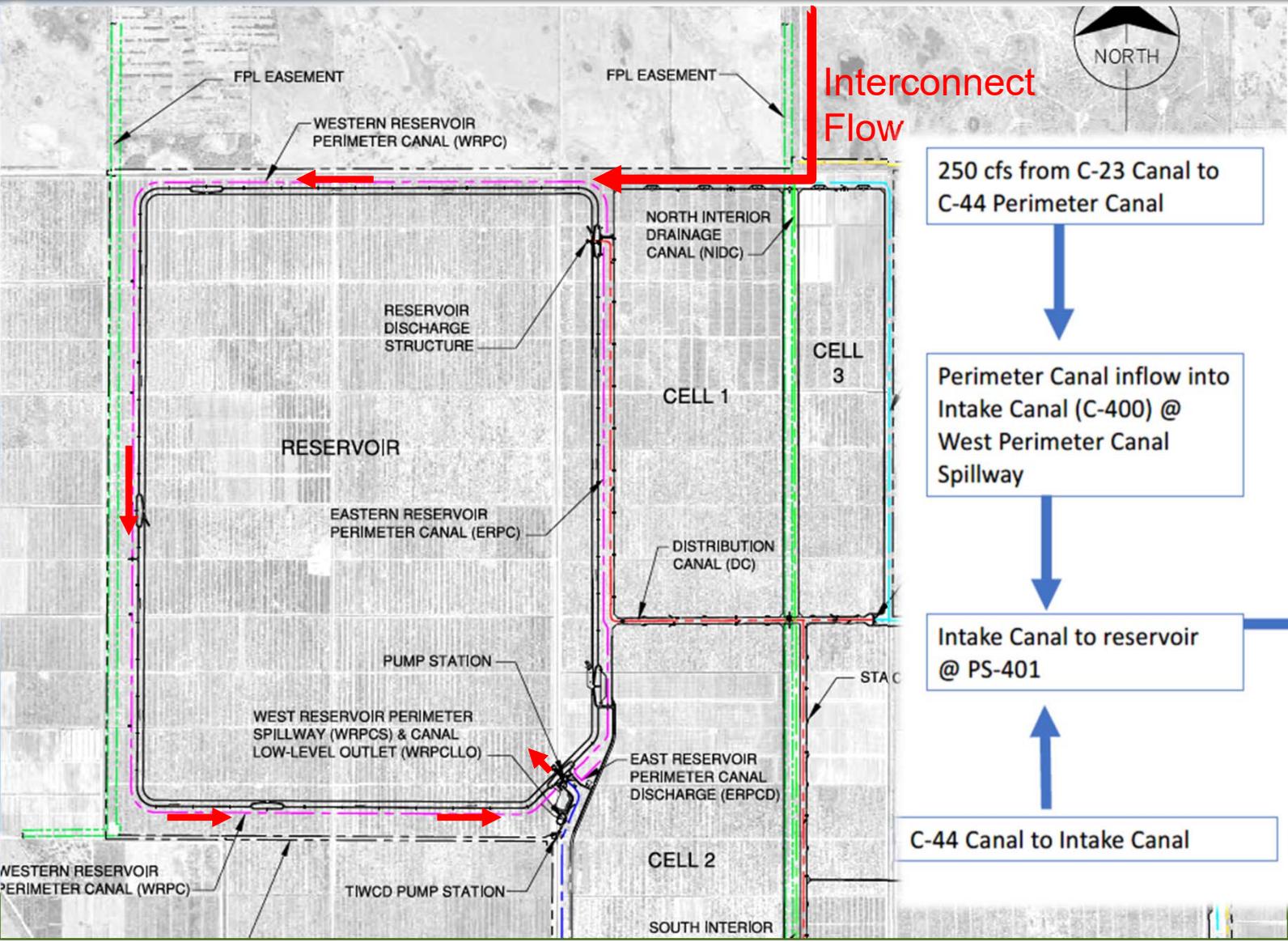
Proposed Acquisition - 300 ft
FPL Easement

CR 714 Martin Highway

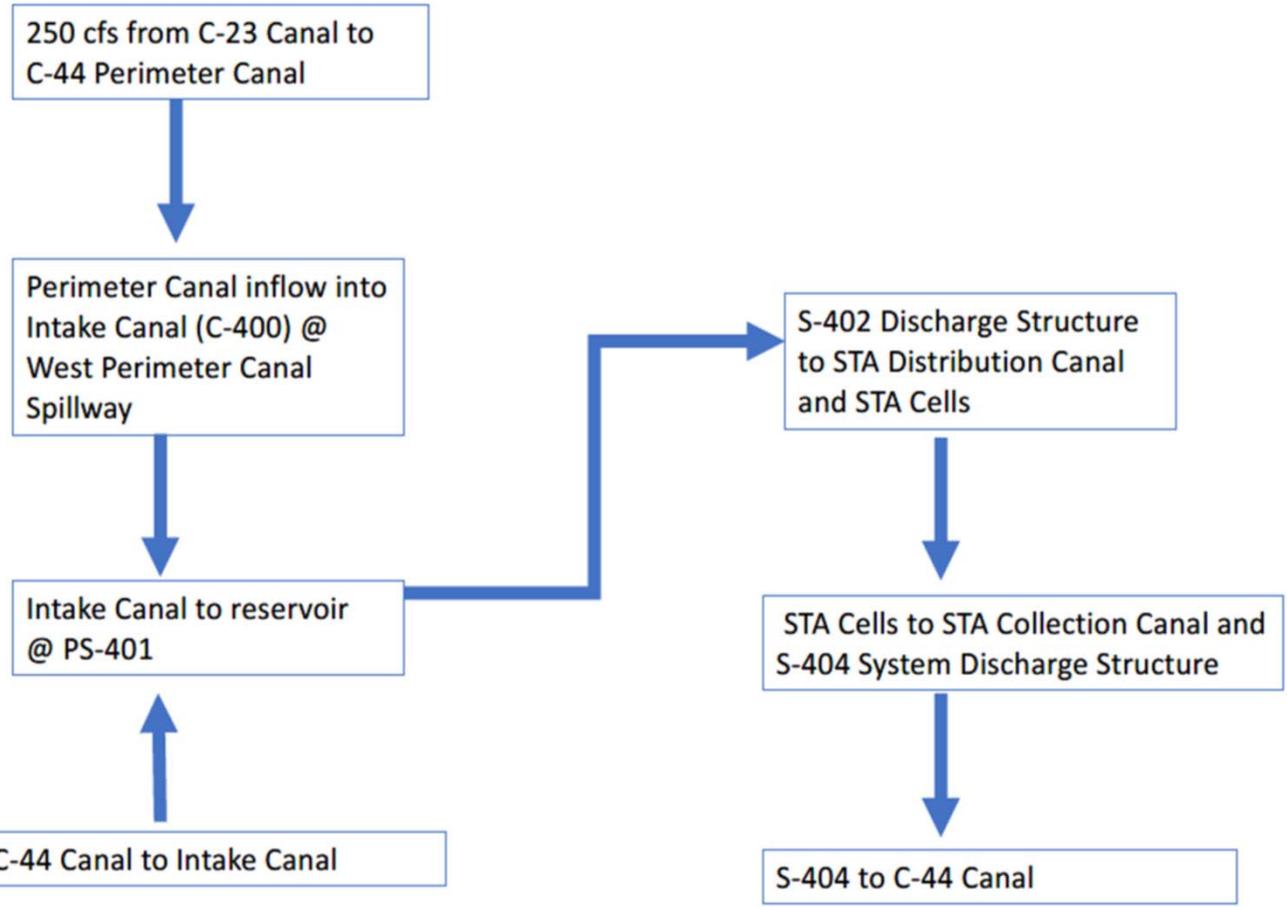
SFWMD Easement 260 ft
FPL Easement

Allapattah Parcel B

Interconnect at C-44



Interconnect Flow



C-23 to C-44 Interconnect

Schedule:

- Land Acquisition Oct. 2020
- Complete Preliminary Design Oct. 2021
- Complete Final Design June 2022
- Begin Construction Sept. 2022



Questions?