



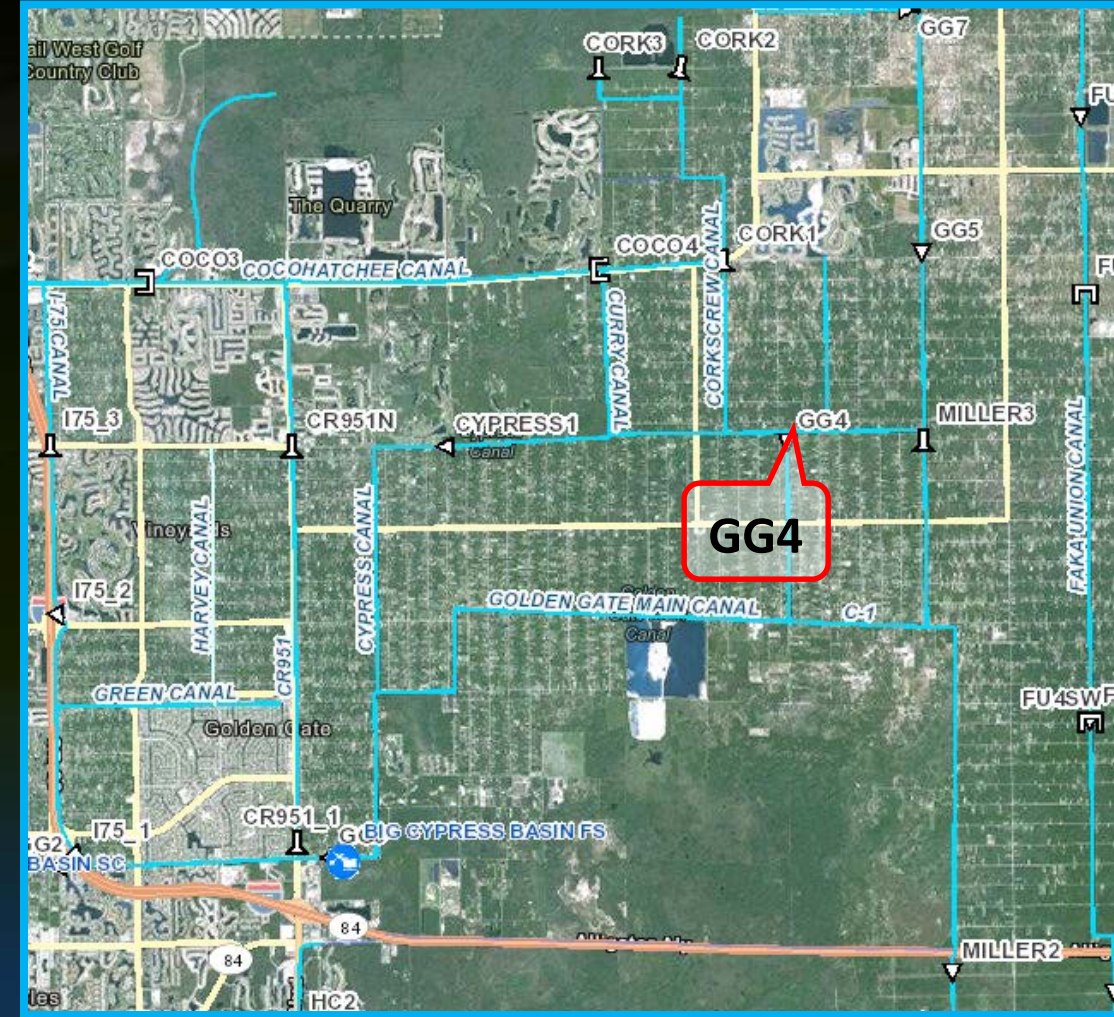
Big Cypress Basin Capital Project Update

Lucine Dadrian, P.E.
Project Management Section Administrator
Engineering and Construction Bureau

January 25, 2019

Golden Gate Weir 4 Replacement

Original GG4 Facing North



Golden Gate Weir 4 Replacement

- Project awarded to Zep Construction for \$4,710,000
- NTP Sep 29, 2017 with a contract duration of 620 days
- Change order 1 added 60 days to contract for H-pile modification
- Funding approved for PM support for \$186,757 at Oct Board
- SCADA funding of \$30k moved to project
- Project is 65% complete

Fiscal Year	Budget	Committed
2014/2015	\$127,800	\$173,490
2015/2016	\$450,000	\$427,313
2016/2017	\$461,900	\$906,990
2017/2018	\$4,000,000	\$3,150,000
2018/2019	\$1,646,360	\$1,863,117
Total	\$6,686,060	\$6,520,910

Golden Gate Weir 4 Replacement



Current Site Condition



**Antenna Pole Erected adjacent to
Control Building Foundation**

Golden Gate Weir 4 Replacement

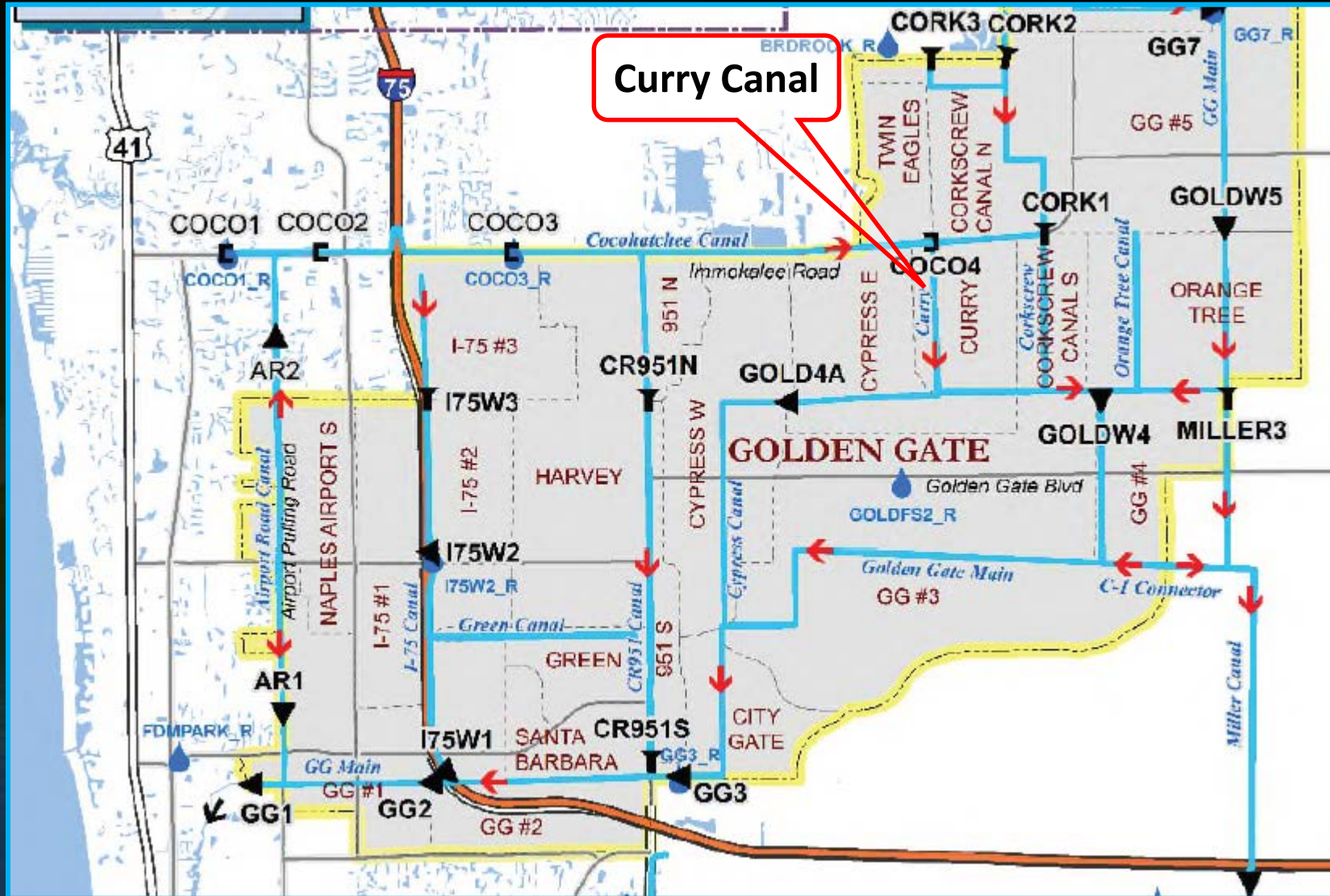


Pedestrian Bridge Intermediate Bent Poured

Golden Gate Weir 4 Replacement



Curry Canal Structure



Curry Canal Structure



- Project awarded to Thomas Marine, Inc. for \$1,681,500
- Flow ready on April 26, 2018
- Substantial Completion was achieved on Nov. 1, 2018
- Final Completion – 90 day delay
- Project is expected to be completed by early February 2019

Fiscal Year	Budget	Committed
2015/2016	\$50,000	\$81,811
2016/2017	\$500,000	\$31,375
2017/2018	\$2,100,000	\$1,884,884
Total	\$2,650,000	\$1,998,070

Curry Canal Structure

CONTROL BUILDING SET IN PLACE

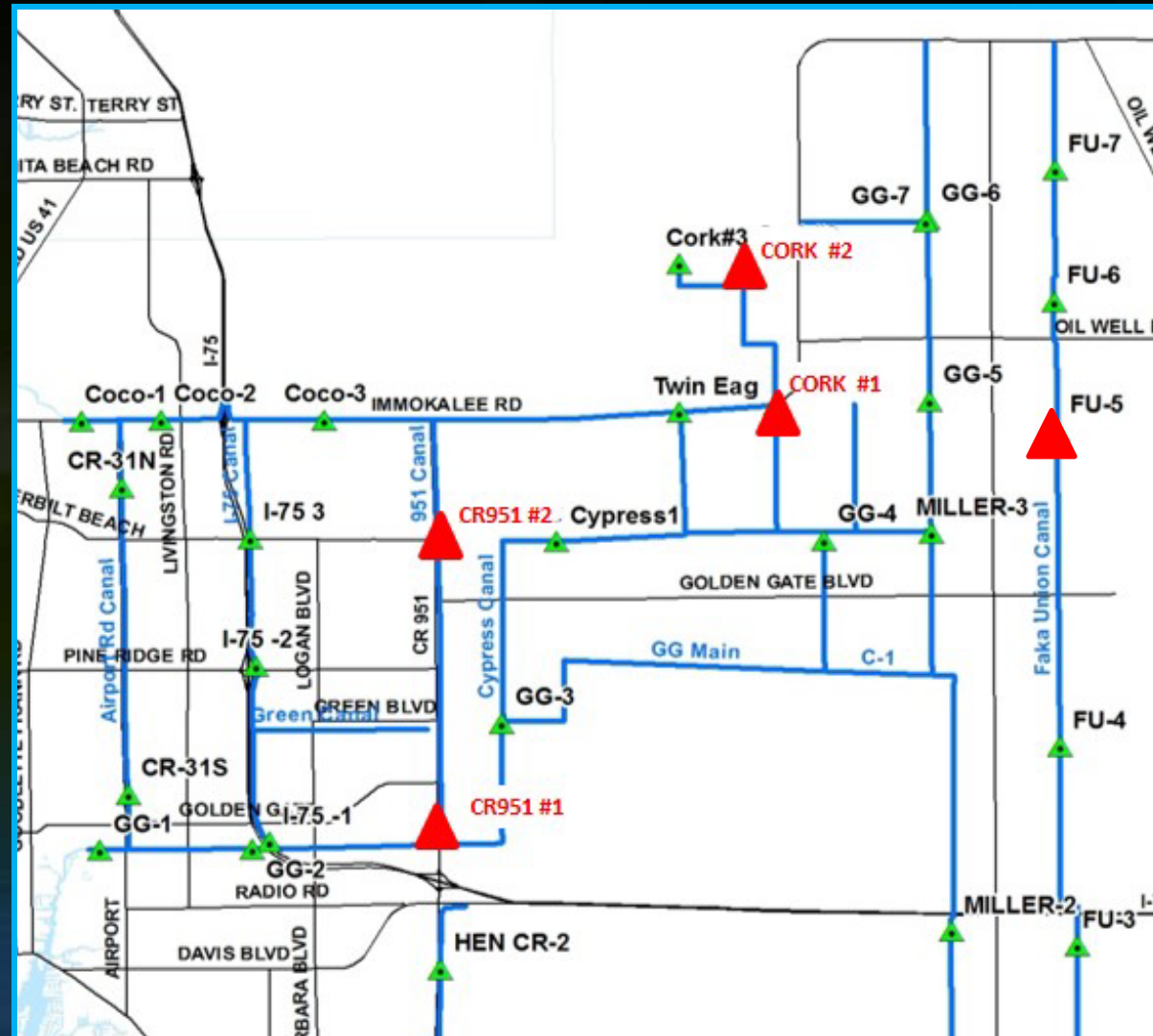


- Gate Operation Demonstration was conducted on December 20, 2018
- Site work to be completed include: Motor Starter Panel Replacement, Replacement of Gate Position Indicator Housing and SCADA
- Change Order for Gate Position Indicator and Solar Panel Relocation in negotiations for money and time
- Separate contract for driveway cut on east side

Curry Canal Structure



Electrification & Remote Operations



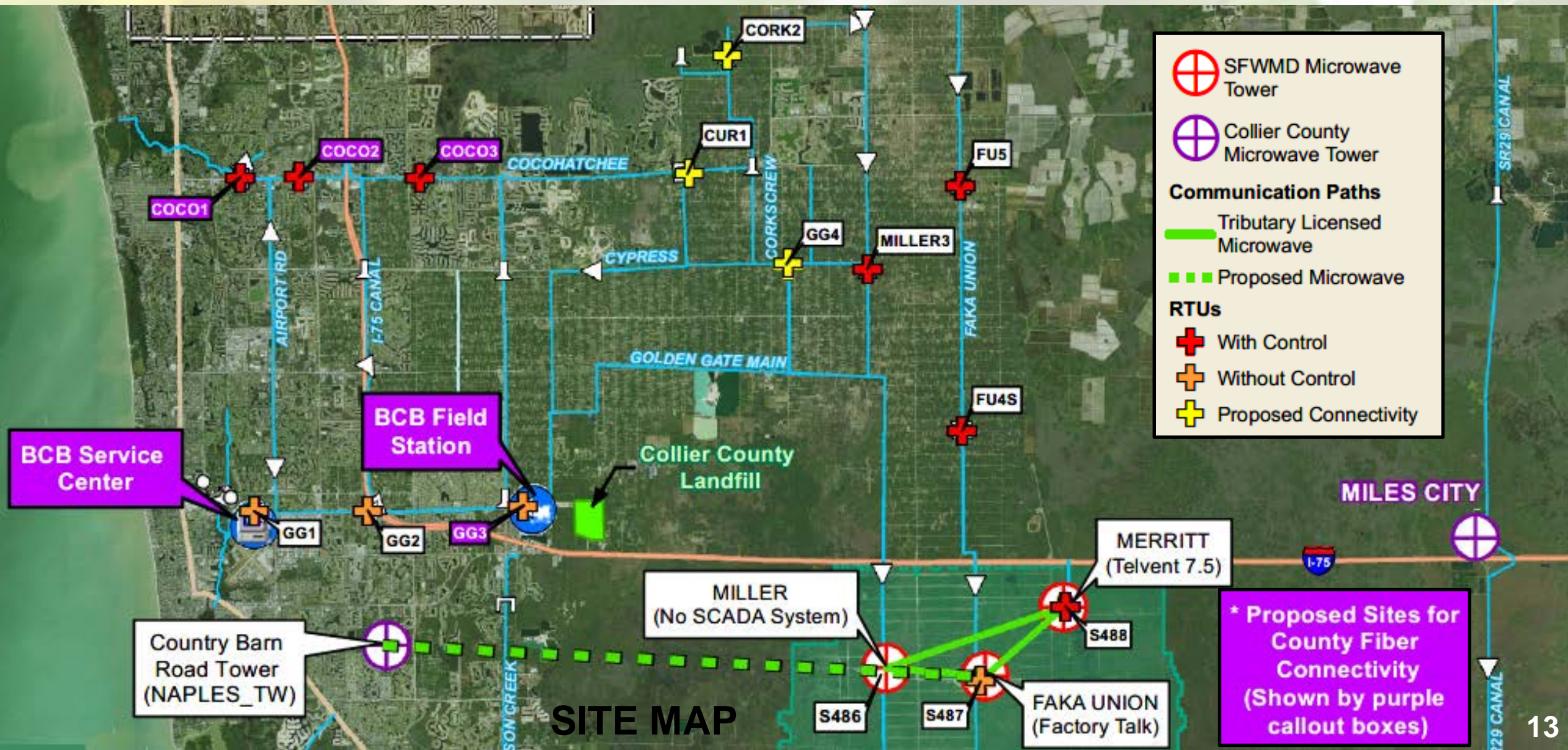
Electrification & Remote Operations

- **CORK2 – add power & remote operations**
- **CORK1, CR951-1, CR951-2 – add powered operations only**
- **FU5 - New generator building & generator**
- **Design work order executed with CSA Central in Sep 2017, total work order amount \$433,979**
- **Final design submittal extended to Feb due to additional survey needs**
- **CORK2 easement requirements in negotiations**
- **Anticipated bid date in Jul 2019**



Fiscal Year	Budget	Committed
2016/2017	\$600,000	\$424,931
2017/2018	\$0	\$9,048
2018/2019	\$1,300,000	
Total	\$1,900,000	\$433,979

Remote Monitoring and Communication



Remote Monitoring and Communication

- Phase 2 includes telemetry installations and site work at the following structures: COCO1, COCO2, COCO3, FU4S, FU5, GG1
- Includes 6 concrete antenna poles, two antennas per pole, cables to shelters, and 24 gate level-indicator housings & conduit
- Level instrumentation to be purchased from and installed by SCADA need \$48k
- Contract executed with Current Connections for \$450,000 and 300 days
- Notice to Proceed - Jul 10, 2018
- Project is 26% complete



Remote Monitoring and Communication

- **Phase 3 scope includes:**
 - **Radios and Antennas at Miller 3, GG2, and GG4**
 - **Fiber installation at COCO1, COCO2, COCO3, GG3, BCB Service Center and BCB Field Station**
 - **Microwave link between County Barn Road Tower and FAKA Union Tower**
 - **Contracts for Base Stations, Antennas, Radios and Tower Analysis executed**

Scope	Estimate
Radios & Antennas	\$44,900
Fiber Installation	\$80,100
Microwave Link	\$450,000
Total	\$575,000

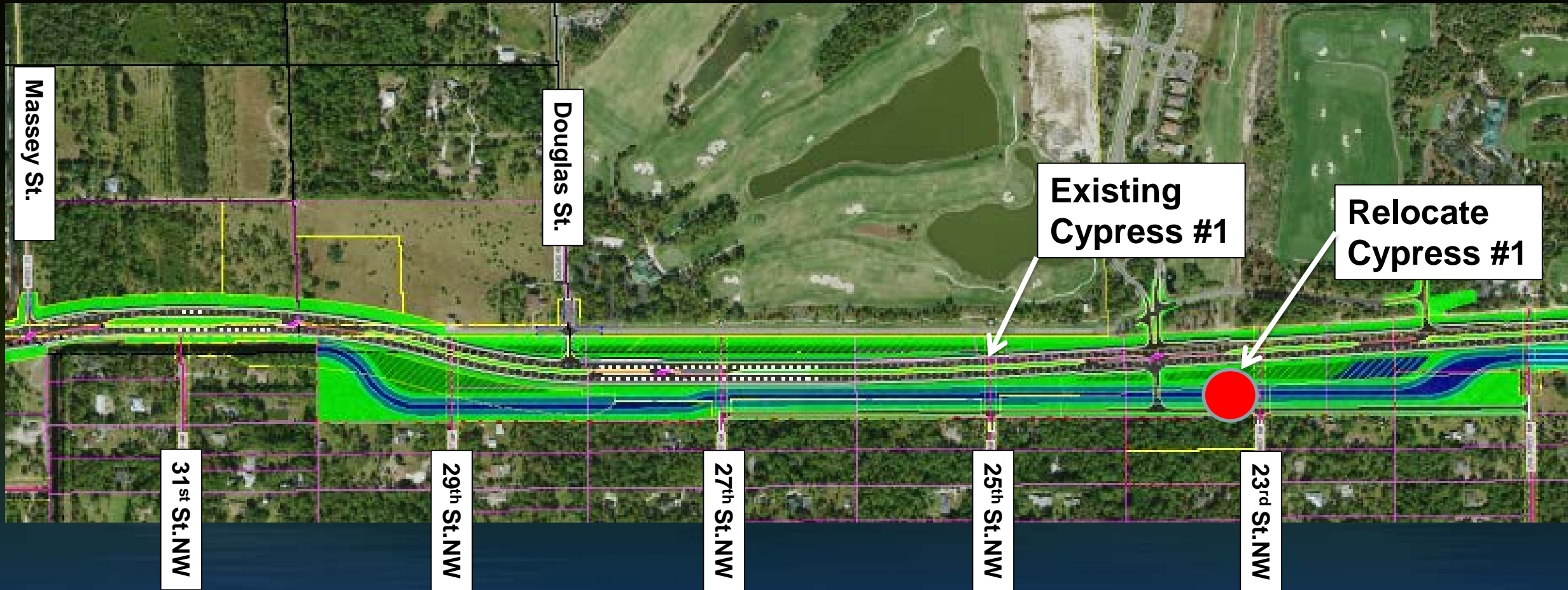
Fiscal Year	Budget	Committed
2016/2017	\$400,000	\$83,000
2017/2018	\$476,911	\$492,259
2018/2019	\$575,000	\$128,625
Total	\$1,451,991	\$703,884

Cypress #1 Structure Relocation

- Project scope includes remotely operable structure
- Coordinated with County to determine timing of expansion and available land for construction
- Selected location is NW 23rd St due to availability of land and least impacts to homeowners

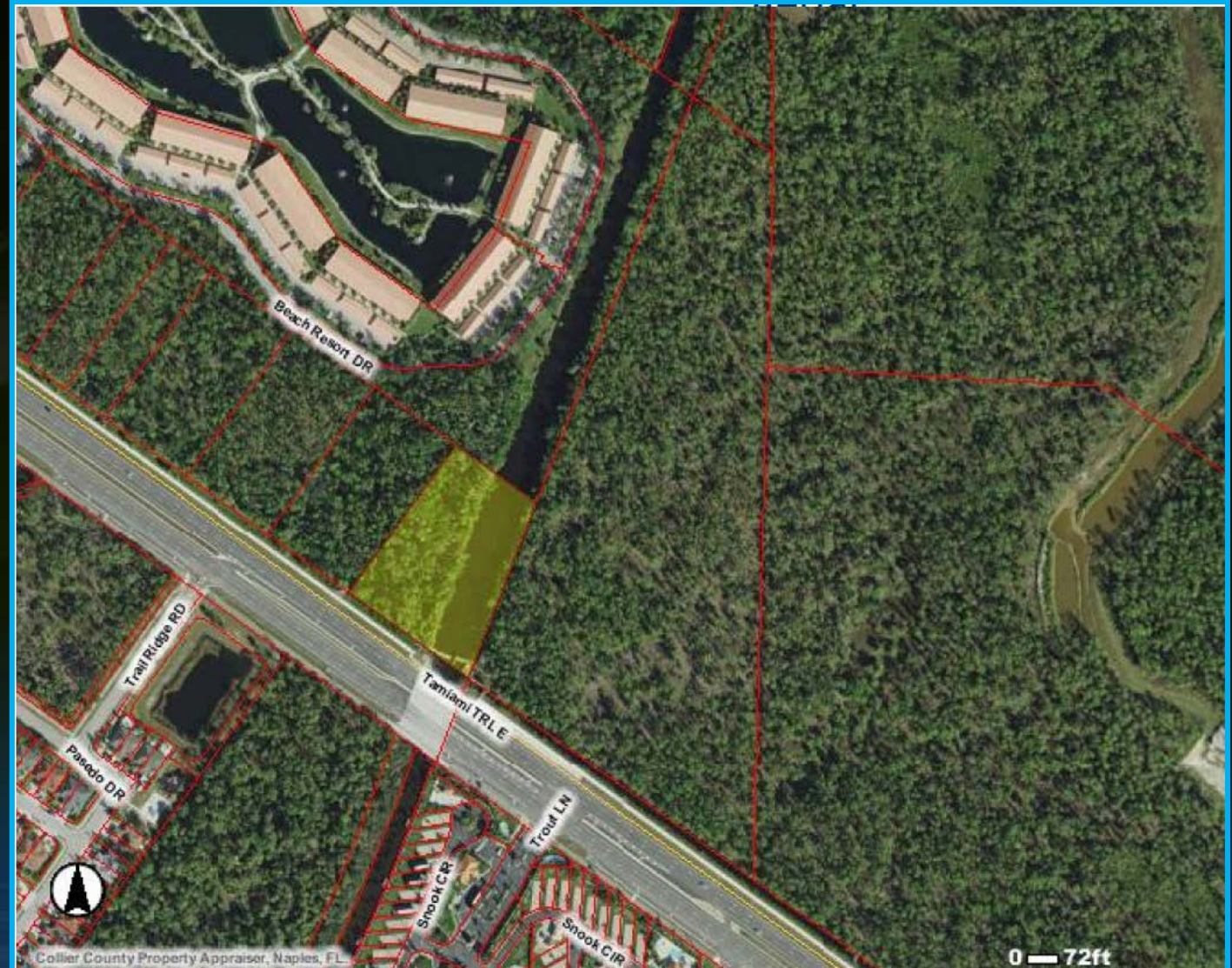


Cypress #1 Structure Relocation



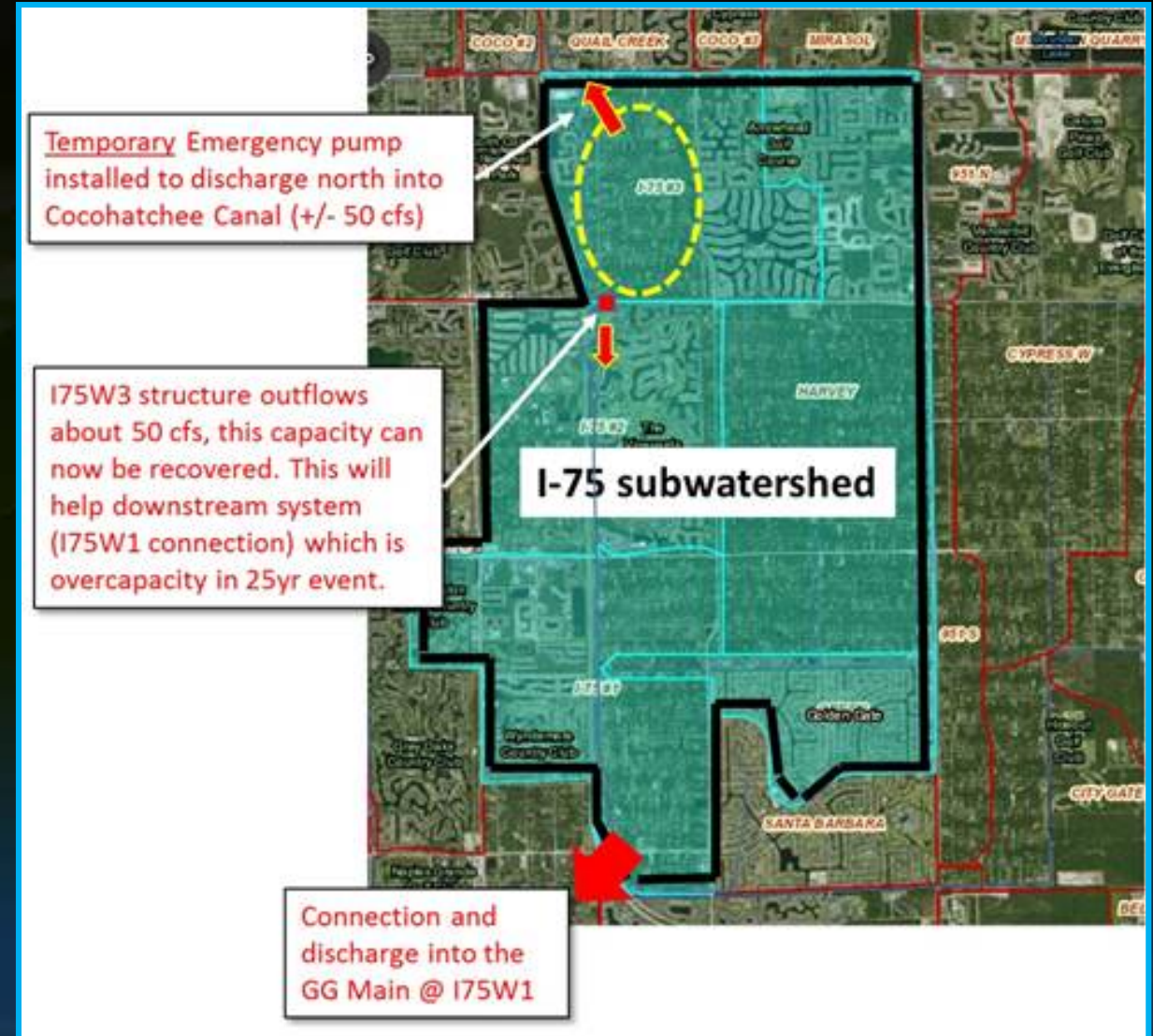
Henderson Creek Land Purchase

- Needed to secure ownership of land on North side of Henderson Creek 1 Structure
- Board approved negotiating with willing seller
- County negotiated with seller for \$140,000
- Contract executed on Dec 11, 2018 with the County in the amount of \$141,345, which includes estimated closing costs



I-75 & Coccohatchee Canal Interconnect and Emergency Pump Facility

- **Project will provide emergency capability to move floodwater from the northern portions of the I-75 drainage area to the Cocohatchee Canal when capacity becomes available under post storm conditions**
- **Board approved level of service project in October Board meeting**
- **Contract executed on Dec 21, 2018 with the County in the amount of \$500,000 to design and construct by end of FY20**



I-75 & Cocohatchee Canal Interconnect and Emergency Pump Facility



Approved Fiscal Year 2018-2019 Capital Budget

BCB Capital Projects	Fiscal Year 2018-19 Adopted	Transfers In / Out	Fiscal Year 2018-19 Modified Adopted	Contractual Commitments	Available Funds	Additional Funding Needs
Structure Inspection Program	\$225,000	\$0	\$225,000	\$59,579	\$165,421	\$0
SCADA Replacements	\$426,000	\$0	\$426,000	\$0	\$426,000	\$0
Remote Monitoring and Communications	\$575,000	\$0	\$575,000	\$128,625	\$446,375	\$50,000
Golden Gate Weir #4 Replacement	\$1,646,360	\$216,757	\$1,863,117	\$1,839,511	\$23,606	\$0
Cypress Canal Weir #4A1 Retrofit	\$400,000	\$0	\$400,000	\$0	\$400,000	\$0
Cork 1 & 2 and CR951 1 & 2 Electrification	\$1,300,000	(\$364,783)	\$935,217	\$0	\$935,217	\$0
Curry Culvert Gate Retrofit	\$0	\$6,681	\$6,681	\$6,681	\$0	\$75,000
I-75 / Coco Interconnect	\$500,000	\$0	\$500,000	\$500,000	\$0	\$0
Henderson Creek #1	\$0	\$141,345	\$141,345	\$141,345	\$0	\$0
Total - Capital Projects	\$5,072,360	\$0	\$5,072,360	\$2,675,741	\$2,396,619	\$125,000

Recommended Action

Request direction for the following project adjustments:

- **Move funding to Curry Canal Structure project budget in the amount of \$75,000 from the Structure Inspection Program, and**
- **Move funding to Remote Monitoring and Communications project budget in the amount of \$50,000 from the Structure Inspection Program.**

Questions?



Proposed 5-year Capital Improvement Plan

BCB Capital Projects	Fiscal Year 2018-19 Adopted	Fiscal Year 2019-20 Preliminary	VARIANCE	Fiscal Year 2020-21	Fiscal Year 2021-22	Fiscal Year 2022-23	Fiscal Year 2023-24
Structure Inspection Program	\$225,000	\$0	(\$225,000)	\$0	\$0	\$225,000	\$225,000
SCADA Replacements	\$426,000	\$121,000	(\$305,000)	\$133,000	\$145,000	\$0	\$0
Remote Monitoring and Communications	\$575,000	\$500,000	(\$75,000)	\$0	\$0	\$0	\$0
Golden Gate Weir #4 Replacement	\$1,646,360	\$0	(\$1,646,360)	\$0	\$0	\$0	\$0
Cypress Canal Weir #4A1 Retrofit	\$400,000	\$1,000,000	\$600,000	\$1,500,000	\$0	\$0	\$0
Cork 1 & 2 and CR951 1 & 2 Electrification	\$1,300,000	\$0	(\$1,300,000)	\$0	\$0	\$0	\$0
I-75/Coco Interconnect	\$500,000	\$0	(\$500,000)	\$0	\$0	\$0	\$0
Canal Improvements	\$0	\$1,200,000	\$1,200,000	\$2,050,000	\$1,800,000	\$2,900,000	\$0
C-1 Connector Canal Control Gate	\$0	\$500,000	\$500,000	\$1,000,000	\$1,000,000	\$0	\$0
Cork 3 Replacement	\$0	\$0	\$0	\$500,000	\$400,000	\$600,000	\$0
I-75-1 Weir Removal	\$0	\$0	\$0	\$200,000	\$1,000,000	\$0	\$0
Faka Union Canal Weir #6 Replacement	\$0	\$0	\$0	\$0	\$0	\$400,000	\$350,000
Faka Union Canal Weir #7 Replacement	\$0	\$0	\$0	\$0	\$0	\$500,000	\$750,000
Golden Gate Canal Weir #5 Replacement	\$0	\$0	\$0	\$0	\$0	\$700,000	\$1,000,000
BCB Capital Projects	\$0	\$0	\$0	\$0	\$0	\$0	\$3,084,346
Total	\$5,072,360	\$3,321,000	(\$1,751,360)	\$5,383,000	\$4,345,000	\$5,325,000	\$5,409,346