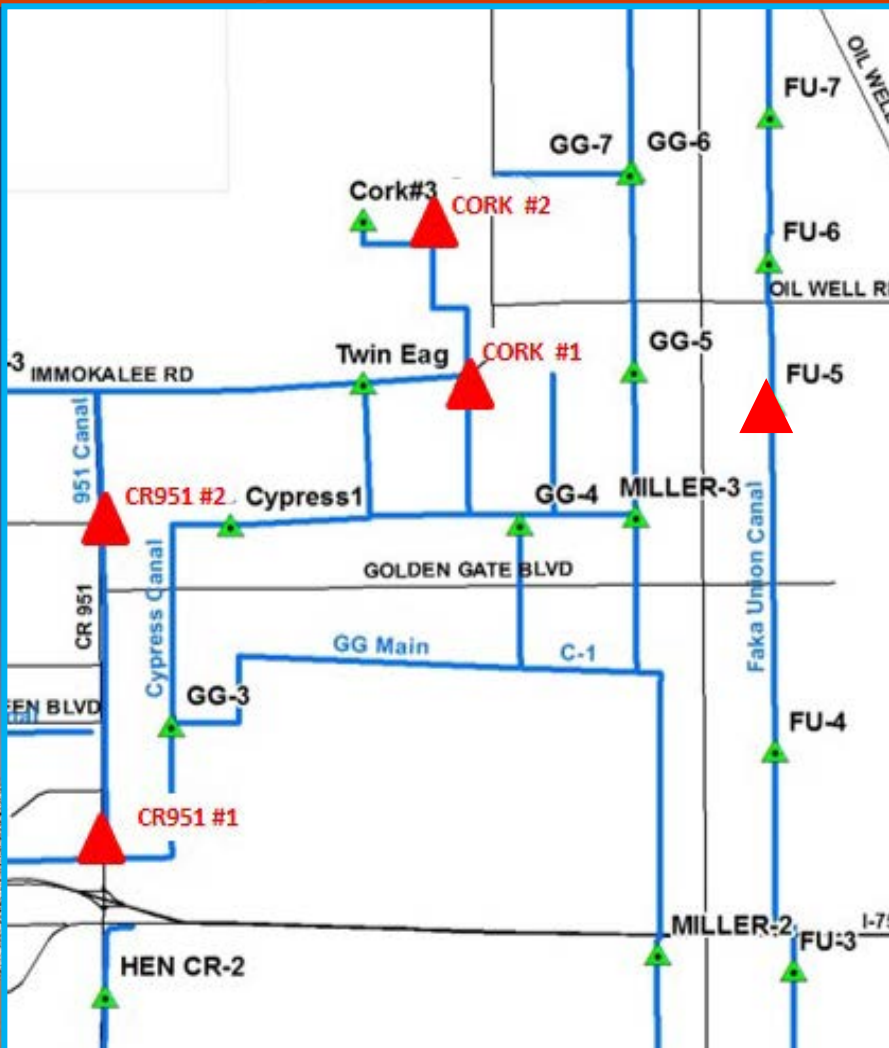


# Big Cypress Basin Capital Project Update

Lucine Dadrian, P.E.  
Project Management Section Administrator  
Engineering and Construction Bureau  
May 22, 2020



# Electrification & Remote Operations



- **Package 1: CORK1, CR951-1, CR951-2 – add powered operations only**
  - Construction contract awarded at February 2020 Governing Board to Douglas N. Higgins, Inc. for \$639,777.80 and Construction Management Services executed Work Order with Chen Moore for \$126,630.17
  - Contractor has applied for Collier County ROW Permit
  - Currently no delays due to COVID-19
- **Package 2: Includes CORK2 remote operations and FU5 generator building**
  - Right of way easement negotiations are moving forward for approximately \$50,000
  - Final design deliverable is in progress

# Remote Monitoring and Communication

- **GG1, GG2, & GG3: upgrade control panels, program, and test for conversion from local control at the structure to remote operations**
- **All local control panel hardware modifications and programming are complete per the current Scope of Work**
- **Testing revealed additional control panel programming is required to implement remote operations**
- **Structures are still in local control, operational and performing flood control**
- **Full implementation of upgrades being expedited for final completion this summer**



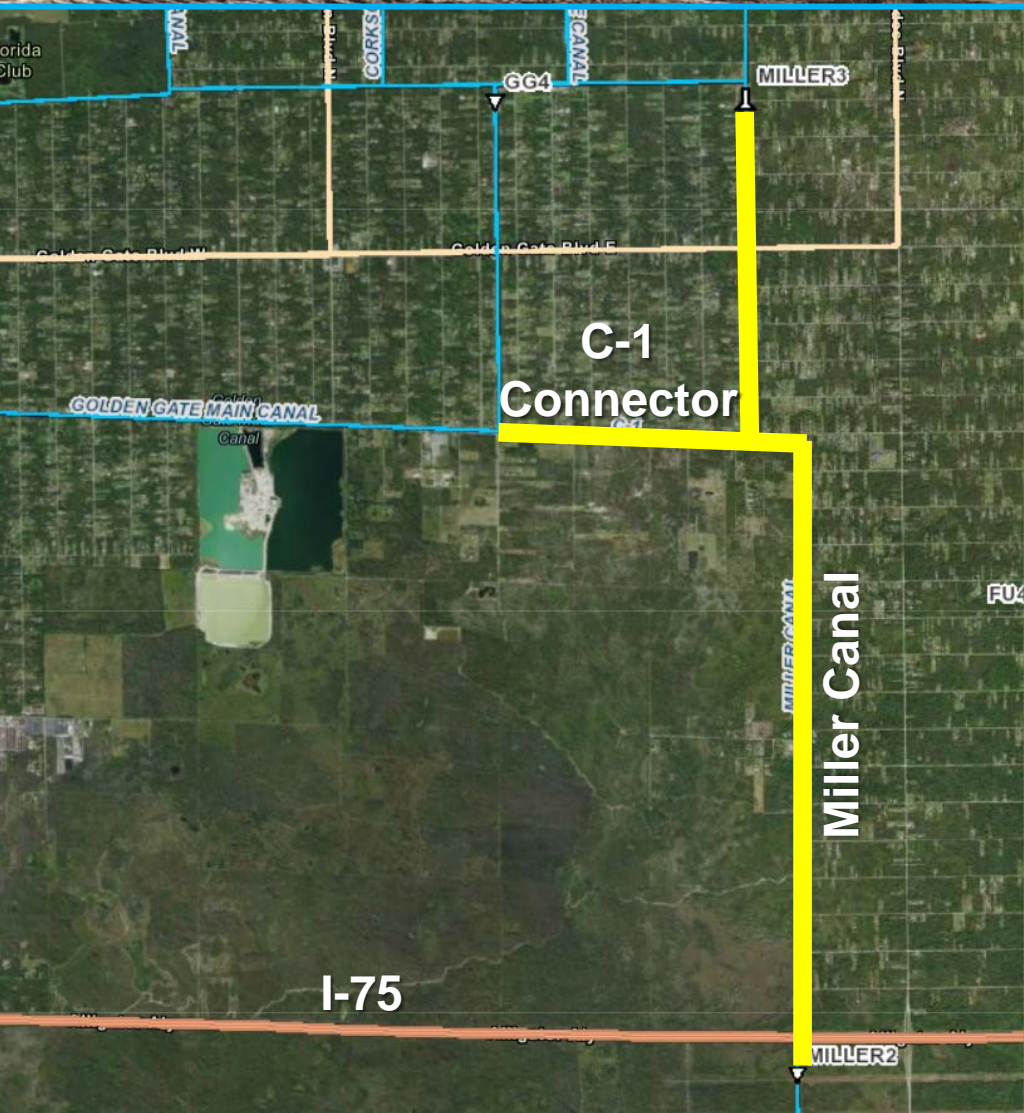
# Canal Improvements – Group 1

I-75 Canal

Green Canal

- Executed Work Order with Stanley Consultants, Inc. in the amount of \$357,878 for I-75 and Green Canal evaluations
- Includes survey, geotechnical, modeling for multiple design storms, and recommendations for canal improvements, removal of I-75 Weir #1, and excavation at intersection of I-75 and Golden Gate Main Canals
- Evaluations of I-75 Canal from Cocohatchee Canal south to Golden Gate Main Canal and Green Canal from I-75 Canal east to Collier Boulevard
- Topographic and hydrographic surveys are complete
- Work Order Revision for additional modeling and survey around I-75 and Golden Gate in the amount of \$94,115
- Final Report on target for completion – November 2020

# Canal Improvements – Group 2



- Executed Work Order with Taylor Engineering, Inc. in the amount of \$604,422 for Miller and C-1 Connector Canal evaluations
- Includes survey, geotechnical, modeling for multiple design storms, and recommendations for canal improvements and a new C-1 Connector Structure
- Evaluation of Miller Canal from Miller 3 south to Miller 2 Structures and C-1 Connector from Golden Gate Main to Miller Canal
- Topographic and hydrographic surveys are complete
- Final Report on target for completion – January 2021



# Canal Improvements – Group 3



- Cypress Canal evaluations underway utilizing District staff from HQ & BCB
- Includes survey, geotechnical, modeling for multiple design storms, and recommendations for canal conveyance improvements
- Evaluation of entire length of Cypress Canal while incorporating Collier County's Vanderbilt Beach Road Extension and proposed Cypress Canal #1 water control structure
- Topographic and hydrographic surveys are complete
- Final Report on target for completion – Fall 2020



# Look Ahead

- 1. SCADA Stilling Well Package 1 – Project installs new stilling well platforms for GG6-7 Tailwater, DSOTO10 Headwater, and CORK1 Tailwater. Ready to Advertise Plans will be complete by July.**
- 2. Miller Weir #3 Gate Replacement – Project replaces double leaf gates with single leaf gates to improve reliability and operations and is out to bid targeting June Governing Board.**
- 3. Cypress Canal Structure #1 – Project relocates the structure south of Vanderbilt Beach Road expansion and the Final Design package is currently in review. Ready to Advertise package will be complete by September.**

# 5-Year Capital Improvement Plan

BCB Capital Projects	Fiscal Year 2020-21 Preliminary	Fiscal Year 2020-21 Tentative	Variance	Fiscal Year 2021-22	Fiscal Year 2022-23	Fiscal Year 2023-24	Fiscal Year 2024-25
Structure Inspection Program	\$0	\$0	\$0	\$0	\$225,000	\$225,000	\$0
SCADA Replacements	\$0	\$275,000	\$275,000	\$145,000	\$0	\$0	\$150,000
Remote Monitoring & Communications	\$500,000	\$500,000	\$0	Project Complete			
Cypress #1 Structure Relocation	\$250,000	\$250,000	\$0	\$2,000,000	\$1,300,000	Project Complete	
Electrification and Remote Operations	\$0	\$1,100,000	\$1,100,000	Project Complete			
Canal Improvements	\$1,540,000	\$1,000,000	(\$540,000)	\$900,000	\$900,000	\$1,300,000	\$1,620,000
C-1 Connector Canal Control Gate	\$1,000,000	\$300,000	(\$700,000)	\$250,000	\$1,000,000	\$1,200,000	\$0
Miller #3 Gate Replacement	\$500,000	\$250,000	(\$250,000)	Project Complete			
Cork 3 Replacement	\$500,000	\$0	(\$500,000)	Project Not Started		\$250,000	\$1,000,000
I-75-1 Weir Removal	\$200,000	\$0	(\$200,000)	\$250,000	\$500,000	\$500,000	\$0
I-75-2 Weir Replacement	\$0	\$0	\$0	Project Not Started		\$250,000	\$1,100,000
<b>Total</b>	<b>\$4,490,000</b>	<b>\$3,675,000</b>	<b>(\$815,000)</b>	<b>\$3,545,000</b>	<b>\$3,925,000</b>	<b>\$3,725,000</b>	<b>\$3,870,000</b>



Questions?

