



Big Cypress Basin Capital Project Update

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1/20/15

Miller Weir No. 3 Replacement

Schedule of Activities

- Notice To Proceed Issued – June 17, 2014
- Substantial Completion – February 23, 2015 (on target)
- Final Completion – April 24, 2015 (on target)

Ongoing Activities

- Wiring up new generator/control building
- Setting propane tank
- Site Grading and Drainage



Scouring Repairs (GG #1,6 & 7 and COCO 1-3 and FU 4)

Progress to Date:

- Project Systems Release – October 24, 2015
- Field Investigation Completed– October 29, 2014
- Survey Work Order Executed – December 15, 2014
- Survey Field Work Completed at FU 4, remaining survey work in progress

Future Activities:

- Design scheduled for November 2014 – April 2015
- \$380,000 budgeted for FY15 Design and Construction



Cork 1&2 and CR951 1&2 Electrification

Progress to Date:

- Project Systems Release – October 24, 2015
- Design Initiated – November 1, 2014
- 90% Design completed – December 5, 2014

Future Activities:

- Design and technical review scheduled for completion by March 2015
- Field Station will procure and install project components
- \$250,000 budgeted in FY15



BCB Fall Protection and Golden Gate Weir #4 Replacement

BCB Fall Protection

- Design is being completed by District's Internal Design Section.
- Preliminary Design undergoing backchecks from technical review.
- Design scheduled for completion in June 2015.
- Construction contract NTP scheduled for August 2015, with a 4 month contract duration.

GG #4 Replacement

- Design to be completed by external consultant under O&M Capital General Services Contract.
- \$127,800 Budgeted in FY15 for geotech/survey/design services.
- Construction to begin in FY16 and continue into FY17.

28th Avenue Southeast Bridge Replacement

Cost Share Project with Collier County

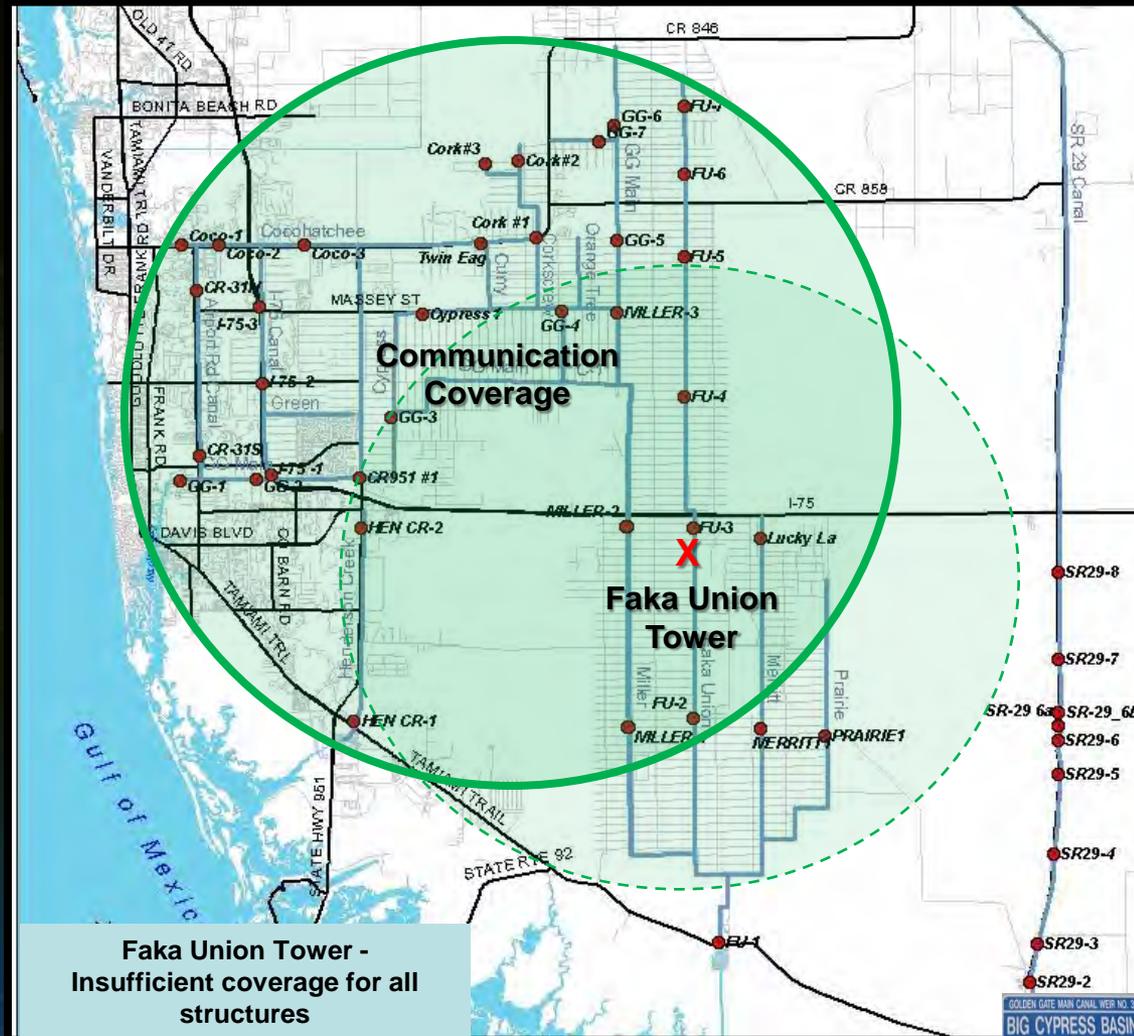
- Erosion/Turbidity Control installed.
- Temporary Bridge installed.
- Substantial Completion date of June 2015.



BCB Communication Coverage Needs

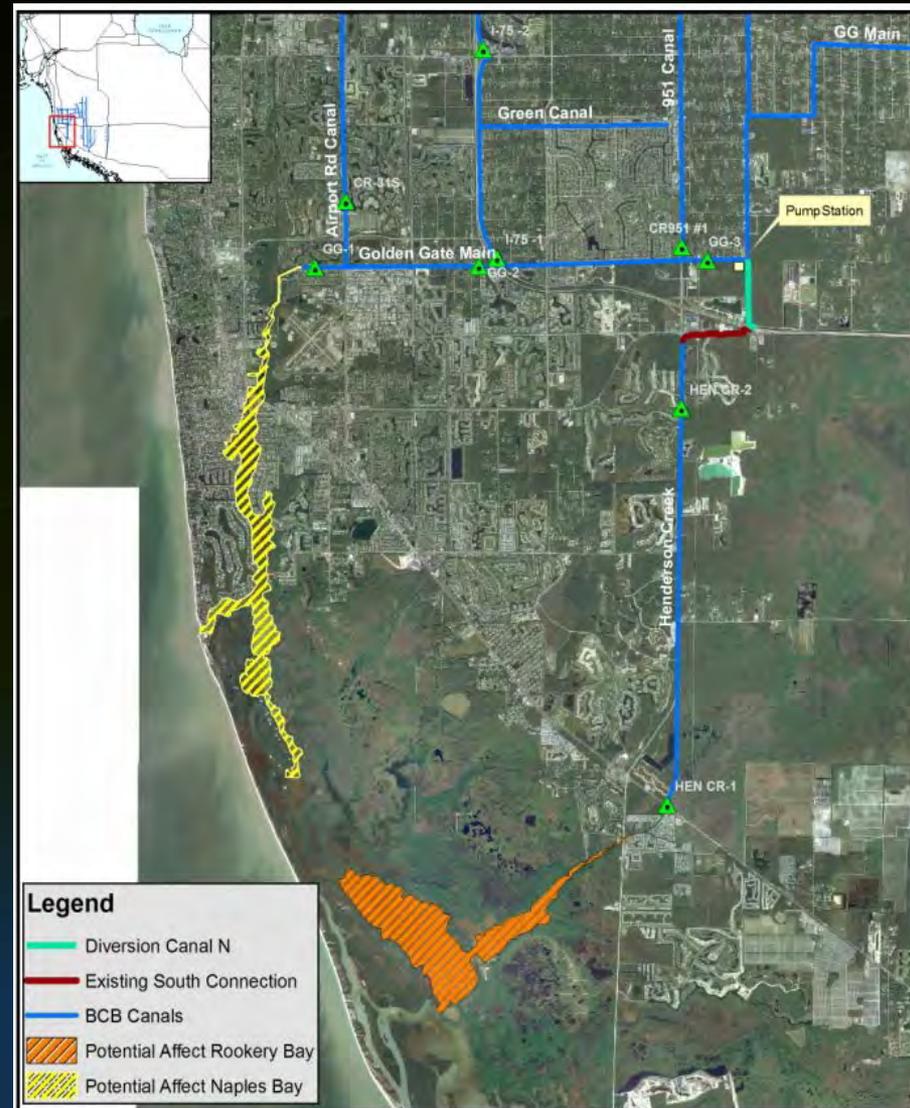
Progress to Date:

- 13 Sites Analyzed
 - FAKA Union Tower Base Station
 - 10 RTU Sites, use VHF radio frequency
 - 2 RTU Sites out of range from FAKA Union Tower, propose utilizing cellular instead
 - Includes monopoles at each site (either existing or new)
 - 1 site retrofit for generator
 - Requires SCADA install
- Next step: Reviewing single vs. dual path options for communication



Henderson Creek Diversion

- Objective: Divert a portion of Golden Gate Canal Basin runoff from Naples Bay to Rookery Bay that would mutually benefit both estuaries



Findings from H&H Analysis

- **Water availability:** Late wet season pulse from Golden Gate Basin to Rookery Bay may be available.
 - Highly dependent on rainfall distribution
 - Available during two to four-week period at the beginning of the dry season depending on selected pumping alternative
- **Conveyance:** Gravity flow is constrained by the relative amount of rainfall, seasonal groundwater levels and control elevations
 - Maximize benefits would require a pump station
- **Cost:** 50-cfs pumping scenario cost approximately \$4 million, excluding land acquisition costs

Conclusions

- Availability of water is not present for extended delivery period in the dry season
- Conveyance challenges will require new infrastructure and long term OM cost
- Department of Environmental Protection study indicates that discharges into Rookery Bay do not need to be augmented (or may need very small volumes)

Recommendation

- Stop further work on the Henderson Creek Diversion Project and close out the exiting project.
- Repurpose the funds for other Basin Priorities / Initiatives.
 - Redirect Henderson Creek Diversion Project funds to Undesignated Fund Balance
 - Refocus Henderson Creek Weir #2 Capital Funds to higher needs of the Capital Projects
 - Utilize some of the funds on Level of Service Assessment Program for Big Cypress Basins

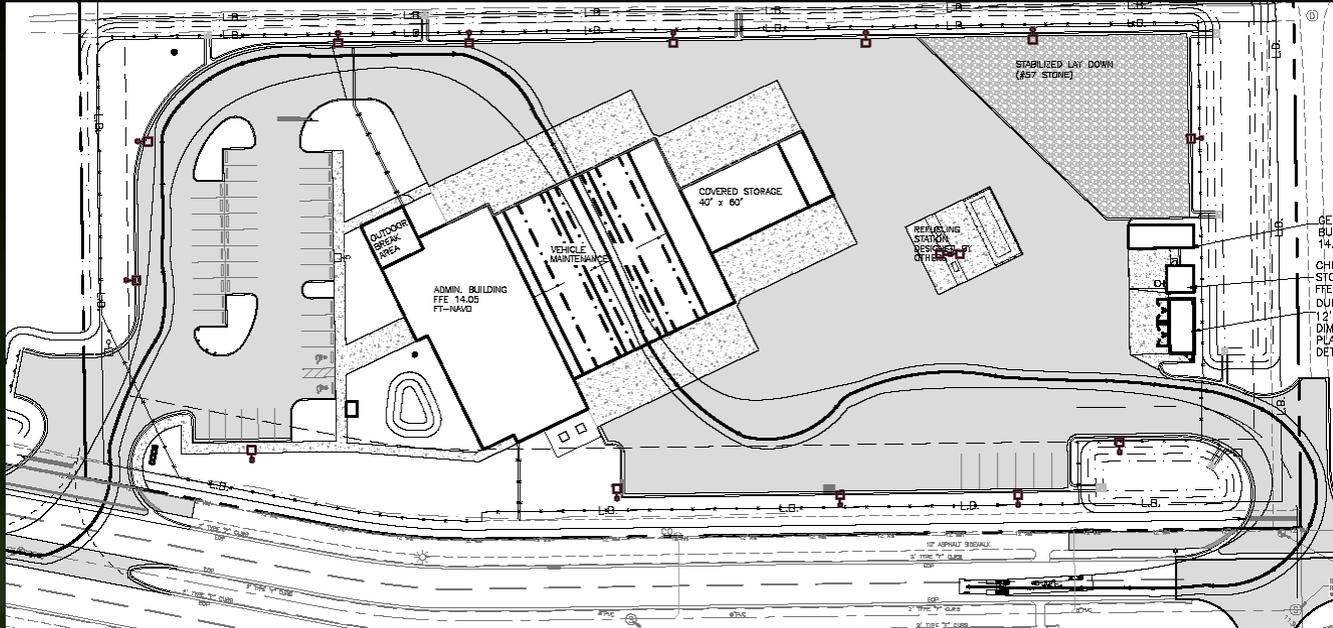


Big Cypress Basin Field Station Relocation Project Update

Board Questions

- Was an auto-turn analysis performed for the building orientation?
- Was the pavement and base designed for heavy truck loads?
- Why is the generator so large?
- Can the less expensive off-road (red dye) fuel be used for the generator?
- Can the color scheme of the building be changed?
- When will the cost estimate be available for review?

Responses to Board Questions



1. The building was rotated from prior site plans following additional auto-turn analysis. The design criteria requires a standard tractor/trailer to be able to drive through the maintenance building.
2. The asphalt and base for all areas, except visitor parking, is designed for the loads imposed by trucks and heavy equipment.

Responses to Board Questions

- Generator – 500 kW
 - Generator is a 3-Phase 480 v with 500 kW capacity based on technical criteria that it would be capable of powering the entire Field Station following a storm event.
 - Personnel may be deployed from other field stations following a major event, which will maximize the power demand.
 - Generator size is under review.

Responses to Board Questions

- Off-Road Fuel for Generator
 - Cost differential ~ \$0.31 per gallon
 - Field Station has minimal off-road fuel requirement for normal operations.
 - The generator would need to run 38 days per year at full load over its 15-year life cycle to hit the cost point for purchasing a separate tank.

Responses to Board Questions

- The exterior color scheme will be modified to be consistent with the colors on the standard District entrance sign.
- Interior colors of walls, carpet, tiles will be similar to the color pallet of the District Headquarters



Response to Board Questions

- 11/18/14 Staff recommends advancing design to 90% ✓
- 01/29/15 Final Plans and Specifications Due
- 02/20/15 Final Cost Model Due
- 02/26/15 Final Stipulated Price
- 03/12/15 GB Approval for Phase 2
- 04/12/15 Issue NTP for Phase 2

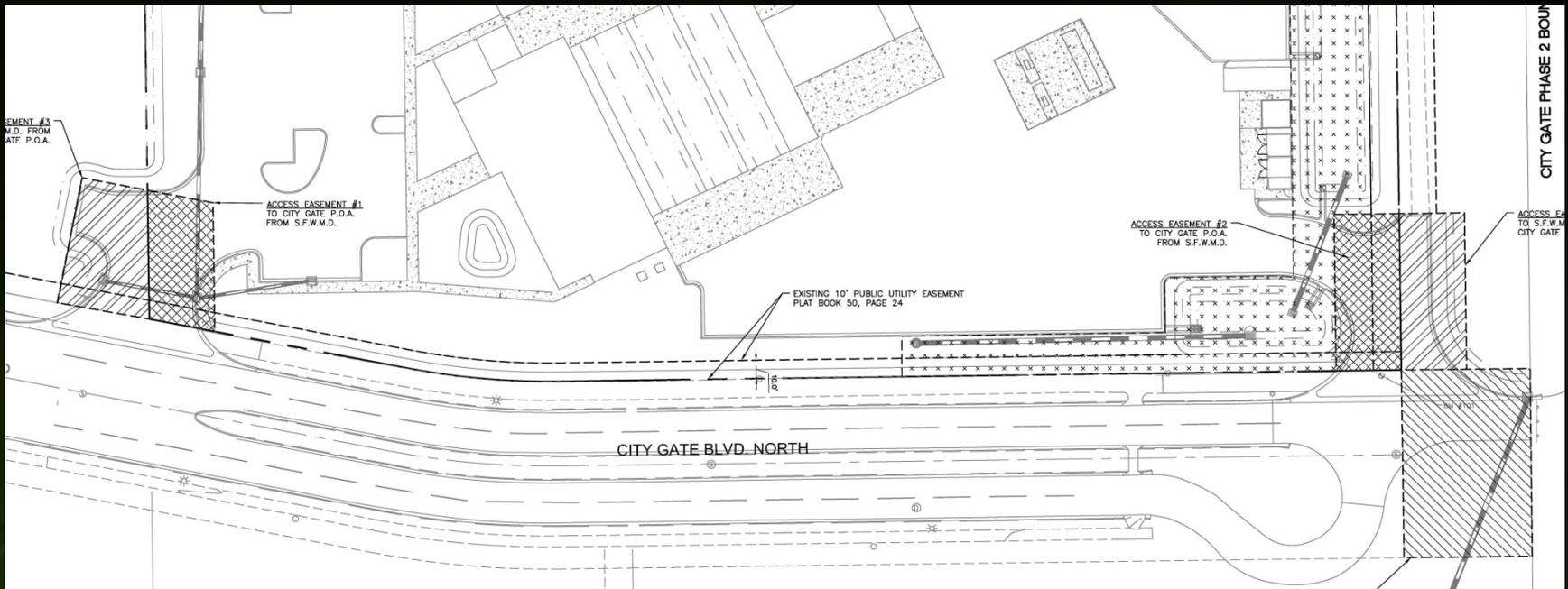
Permit Status

Permit	Status
Site Development Plan – Collier County	App. submitted on 10/31/14. RAI Response submitted on 1/14/15. Expected receipt date of March 1.
Environmental Resource Permit (ERP) – FDEP	App. submitted on 11/5/14. RAI Response submitted on 1/14/15. Expected receipt date of March 1.
Building Permit – Collier County	Will Submit on 1/29/15, expected receipt date of March 31.
Water Use Permit - SFWMD	Issued 11/21/14

Impact Fees

Item	Amount
Total Impact Fees	\$181,688
Less Road Impact Fees Paid	- \$103,657
Balance Due	\$ 78,031

Reciprocal Driveway Easement



- Shared entrances required by the Collier County Development Agreement
- Easements will be brought to the March Governing Board for approval

Wind Load Criteria

- Wind Speed 139 mph, 3 second gust
- Hurricane Category 3 (111-130 mph sustained, 140-164 mph gust)

Major Equipment Purchases

- Air Compressor
- Air/Electric Reels
- Vehicle Lifts

Big Cypress Basin Field Station Relocation Project

QUESTIONS?