

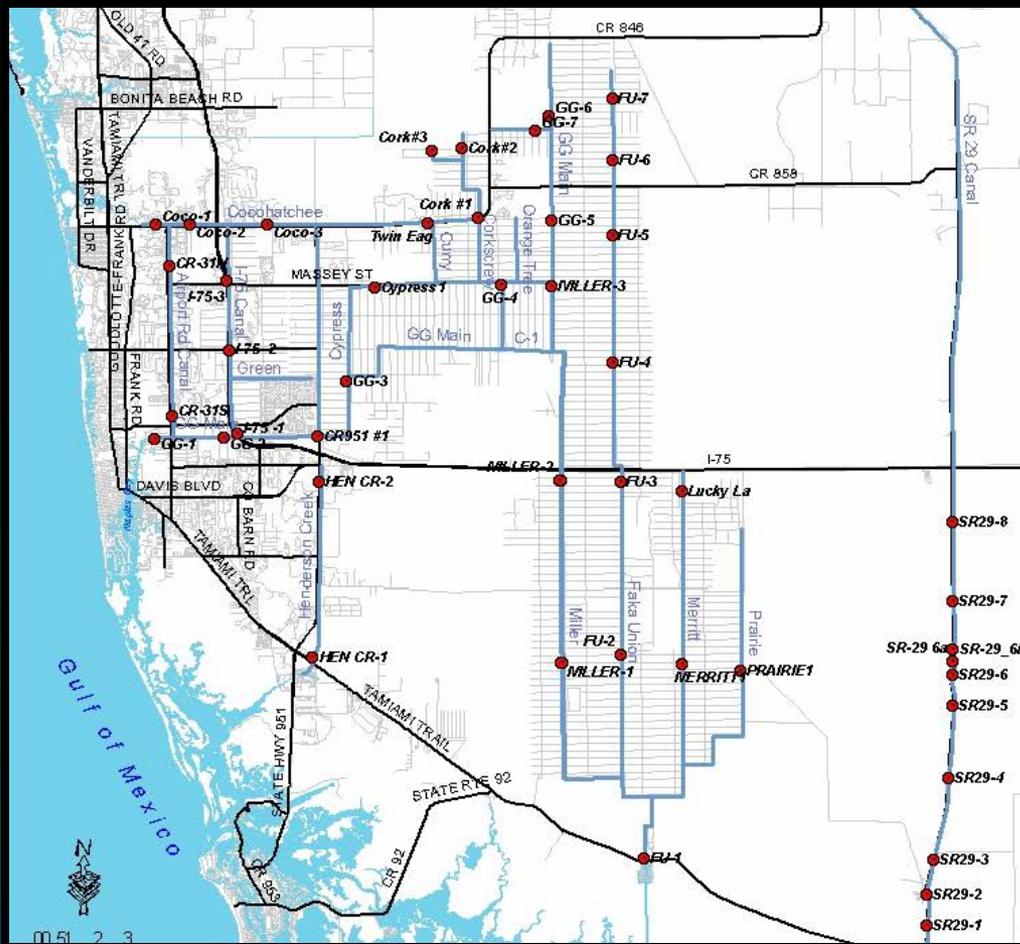


Big Cypress Basin Capital Project Update

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Engineering and Construction Bureau

January 2016

Construction Projects



1. Faka Union #4 Scour and Riprap Repairs
2. Fall Protection – Phase 1
3. Stage Recorders and Rain Gages
4. HC2 Stilling Well Replacement
5. Remote Monitoring and Communication
6. COCO 1 Riprap Replenishment

Faka Union #4 Scour and Riprap Repairs

- Kelly Brothers (based in Ft. Myers) was awarded the contract
- Substantial Completion was reached in December 2015
- Final Completion was reached in January 2016
- Project was completed 3 months ahead of required schedule
- Only change order resulted in a \$1,500 credit



BCB Fall Protection

- 9 Sites: GG 1, GG 2, GG 3, FU 4, ARS/CR31, CR951-1, HEN 2, I75-1, and I75-2
- NTP Date - October 16
- Submittal reviews complete
- Mobilized at GG2 on Jan 14, 2016
- Substantial Completion scheduled for March 2016, Final Completion April 2016



Stage Recorders and Rain Gages

▪ Stage Recorders

- Recon complete for FU6 and Twin Eagles, SOW in progress
- Due to complexity or the tail water next to roadway for EXT951 and CR951-2, decision to install HW only at this time

▪ Rain Gages

- FU5 rain gauge completed on Jan 12, 2016 (FY15/16 work)
 - Recon complete and best available location at GG7, SOW in progress
- Next recon trip for (SR) CR951-2 and I-75#3 and (RG) I-75#2



Stage Recorder at FU1



Rain Gage at GG3

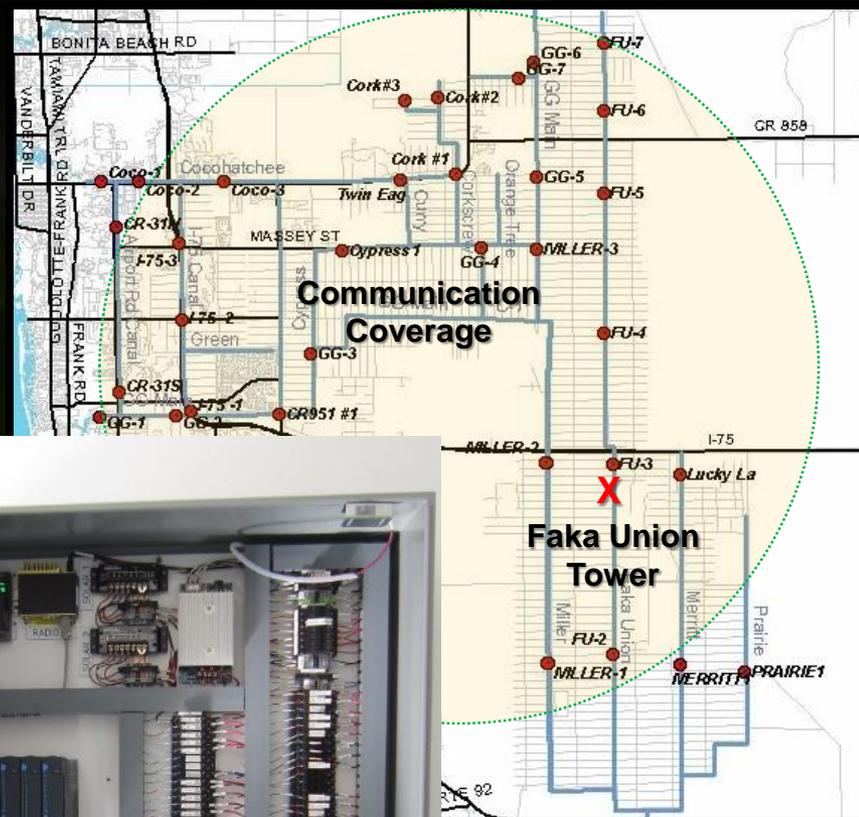
Stilling Well Replacement – HC2

- HEND84 stilling well received an inspection rating of C5
- Replace and rename as HC2
- 3 bids received and lowest bid was CJ Contracting for \$198,500
- Contract executed. NTP is February 1
- Substantial Completion August 2016
- Final Completion September 2016



Remote Monitoring and Communication

- Upgrade current CR10s and MOSCADs to ACE RTUs
- 9 sites: COCO1, COCO2, COCO3, FU4S, FU5, GG1, GG2, GG3, and HC1
- COCO1 and COCO3 panels completed, ready for testing
- COCO2 is nearing completion and GG1, GG2 and GG3 are in the lab



COCO 1 Riprap Replenishment

- Replenish rubble riprap around structure
- \$200,000 budgeted for dry season construction
- Installation by Field Station crew, mobilization in February



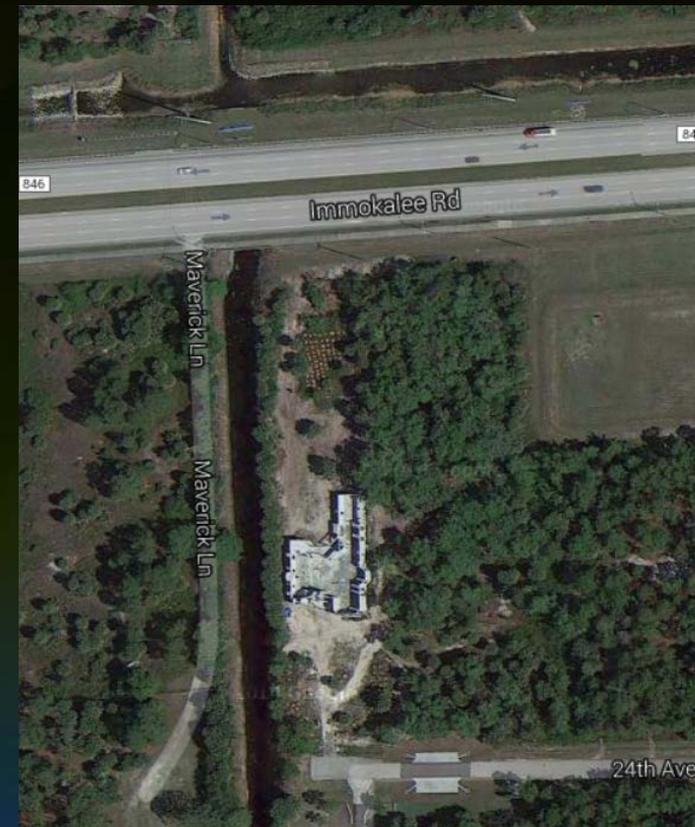
Golden Gate Weir #4 Replacement

- Design Work Order executed
- Geotechnical Report is currently undergoing technical review
- Preliminary design submittal (30%) is due in February 2016
- Construction scheduled for the end of FY17



Curry Canal

- Request to control flows going south at intersection of Curry and Cocohatchee to prevent groundwater loss during Dry Season
- Completed inspection of Immokalee culverts and determined they are segmented box culverts
- Developing location for water control structure on Curry Canal between Immokalee and NW 24th Ave
- \$50,000 Budgeted for modeling Consultant, SOW prepared



Level of Service Assessment – Phase 1

Phase 1: Technical Assessment

- **Comprehensive examination of the existing system and its current level of flood protection, a projection of future conditions and the resulting change in flood protection**
- **Kick off meeting held December 9, 2015**
- **Task 1 Initiated for Basin Atlas work**
- **Divided up 4 watersheds into 3 teams**
- **Task 2 modeling will be assigned to a Consultant, SOW prepared**

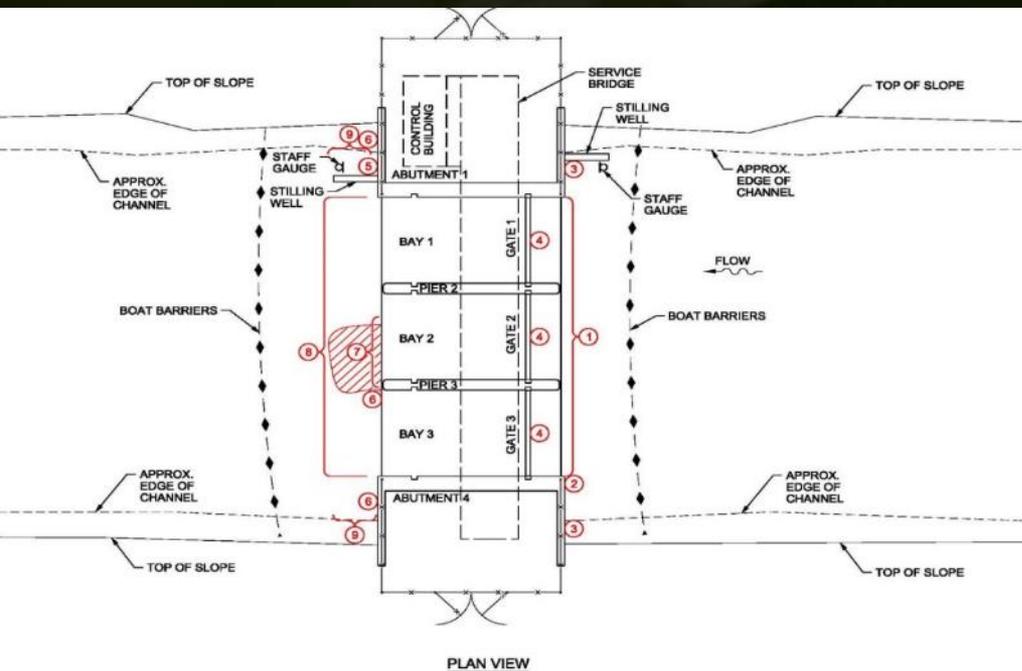
BCB Fall Protection – Phase 2

- **11 Sites: COCO 1, COCO 2, COCO 3, Cork-1, Cork-2, ARN (CR31), CR951-2, HEN 1, I75-3, TWINE and FU 5**
- **Final design submittal end of January**
- **Construction for Phase 2 to commence in FY17**
- **\$300,000 budgeted for FY17**



Golden Gate 1 Scour Repair

- Survey complete and no downstream scour found
- Design for void/seepage repairs under slab in progress
- Chemical grout between the existing sheet pile and slab
- \$200,000 budgeted for FY17 construction



COCO 2 Scour Repair

- Survey and CFD Modeling completed for scour
- Final Design in progress for scour repair under slab and downstream of structure
- \$500,000 budgeted for FY17 construction



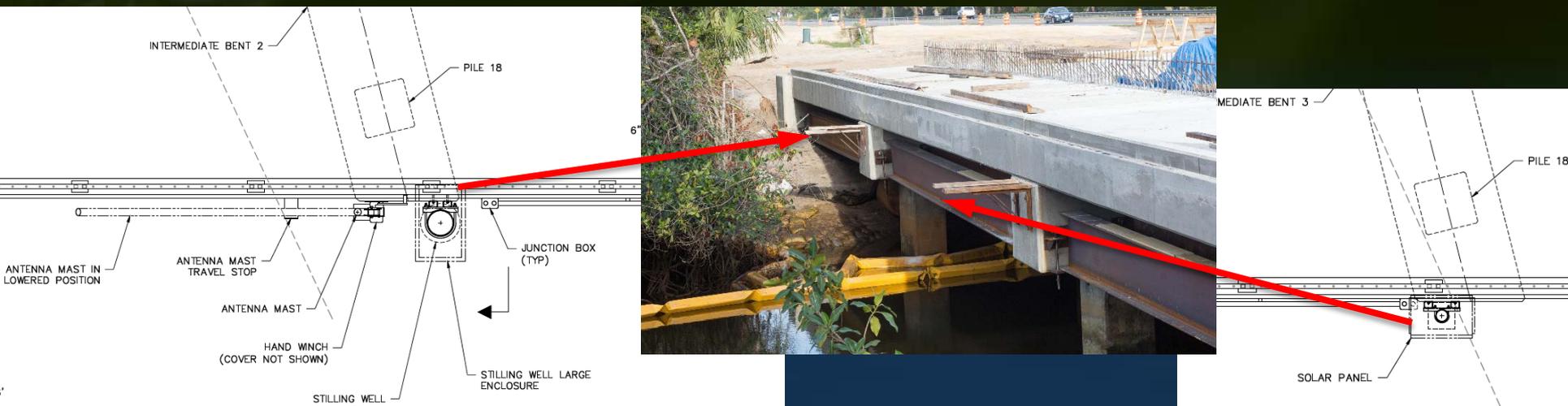
Electrification

- **Cork1, Cork 2, CR951-1, & CR951-2** work includes **Electric-Motor Actuators, Gate Stem Replacement, Control Panels, Commercial Power Hookup and Tow Around Generator**
- **Design is in progress**
- **Received quote from FPL for hookup at CR951-2**



Stilling Well Replacement – HC1

- HC1 stilling well received an inspection rating of C5 and is currently in design for full replacement
- Replacement of HC1 TW stilling well will be installed on the rebuilt Henderson Creek U.S. Highway 41 Bridge
- Maintenance access to the new location will be from the pedestrian/bicycle shared use path on the south side of the bridge
- Final Design submittal in February to include stilling well and solar panel attached to bridge and staff gage installation





Big Cypress Basin Field Station Relocation Project Update

Construction Phase

Schedule

- | | |
|--------------------------|----------|
| ▪ NTP (Phase 2) | 04/08/15 |
| ▪ Substantial Completion | 04/12/16 |
| ▪ Final Completion | 05/31/16 |

Cost

\$6,669,104.80

Key Activities Since Last Update

- Rough-in mechanical, electrical, plumbing and fire-sprinkler complete.
- Metal framing and drywall for interior walls complete.
- Interior and exterior painting complete.
- All interior tile complete.
- HVAC & electrical equipment installed.
- All exterior doors and windows installed.
- Casework being installed.
- Covered Storage (PEMB) complete.
- Fuel tank installed.
- Completed all underground storm sewer, sanitary sewer, water and fire lines.
- Curbing, limerock base course, sidewalks, and perimeter fence being installed.

Construction Phase



Construction Phase



West Elevation (Front Entrance)

Construction Phase

Administration Bldg.

- Metal framing & drywall complete
- Painting complete.
- O/H MEP complete.
- Acoustic Ceiling grid installed.
- HM Door Frames installed.
- Tile complete.

Main corridor looking north



Main corridor looking south



Construction Phase

Administration Bldg.

Conference Room



Men's Restroom



Women's Restroom

Construction Phase

Fuel Storage and Distribution System



Questions?

