

***PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY
BOARD OF DIRECTORS MEETING
March 31, 2021***

**ROUTINE STATUS REPORTS
ITEM 3**

Regional Integrated Loop System Phase 3B Interconnect Project [S.R. 681 to Clark Road]

Project Status Report

Project: Regional Integrated Loop System Phase 3B Interconnect Pipeline Project
[Preymore Interconnect Clark Road (SR 72)]

Date: March 31, 2021

Prepared by: Ford Ritz, Project Engineer

The following information summarizes the project description and current status.

Project Description

The Phase 3B Interconnect will extend the regional loop system within Sarasota County approximately 5 miles further north from the Preymore Interconnect location near the Central County Solid Waste Disposal Complex to Clark Road (SR 72). The Phase 3B Pipeline will be bi-directional and will interconnect with the regional Phase 3A pipeline to the south and to Sarasota County's system on the north. The project consists of approximately 4 miles of 48-inch diameter steel pipe and another mile of 36-inch diameter ductile iron pipe. The project is currently under construction.

Current status

The project was bid on May 14, 2019 and four timely bids were received on June 26, 2019 from pre-qualified contractors. Engineer's Estimate for construction was \$13,220,000. Bids ranged from \$12,092,815 to \$15,571,092.87. Lowest bid was received from Garney Companies, Inc. at \$12,092,815. The construction contract and the engineer's construction phase services work order were both approved through Board action at the July 31, 2019 Board meeting.

In February, 2020 pipe began to be delivered and installation began in mid-March. There were several significant activities including a canal crossing and installation of piping in a wet ditch area that are scheduled for completion during the dry season and they were successfully completed. Significant rain fell the first week of June and work since then has slowed. There are photographs of the piping laid out along the route and being installed over the next several pages. These shots were taken in the Spring before the rains of June.

As of November, 2020 all pipe had been installed and crews were in the process of flushing, pressure testing and restoring land disturbed during the project. Work remaining includes pressure testing, disinfection, obtaining FDEP clearance, and final painting of exposed piping and appurtenances. Final paperwork and matters such as Record Drawings, release of leins, O&M manuals, warranties and training is underway. It is anticipated that the project will reach Substantial Completion in April 2021.

Project Photos:











Project History Briefing

Project: Phase 3B Regional Interconnect Pipeline Project

Date: March 31, 2021

Prepared by: Ford Ritz, Project Engineer

The following information summarizes the historical milestones and events of the Phase 3B Regional Interconnect Pipeline Project.

- July 24, 2015 The Authority advertised for Consultant SOQ Packages for engineering design and construction management services for the Phase 3B Regional Interconnect Pipeline Project.
- August 5, 2015 The Authority Board of Directors approved the Southwest Florida Water Management District cooperative funding request for the project “Phase 3B Regional Interconnect Pipeline Project for an estimate project cost of \$26,970,000.
- August 25, 2015 Consultant SOQ Packages were due. A total of five packages were timely received from the firms identified in alphabetical order as follows: Atkins North America Inc., Black & Veatch Inc., HDR Engineering Inc., King Engineering Associates Inc. and Stantec Consulting Services Inc.
- August 28, 2015 Distributed electronic copies of the SOQ packages to member and customer Utility Directors for feedback or comments. Feedback requested by September 14, 2015.
- September 22, 2015 Following review of the SOQ packages and in accordance with the Authority’s Procurement Policy a short-list of three top candidates was developed and included: HDR Engineering Inc., Inc., King Engineering Associates Inc. and Stantec Consulting Services Inc.
- October 7, 2015 The Authority Board listened to presentations from the shortlisted firms (HDR Engineering Inc., Inc., King Engineering Associates Inc. and Stantec Consulting Services Inc.). The Board ranked the consultants to establish the order-of-preference, with King Engineering Associates Inc. selected as the top-ranked firm.
- December 2, 2015 The Board approved a contract with King Engineering Associates Inc. for Professional Engineering Design and Construction Management/Inspection Services for the Phase 3B Regional Interconnect Project.

- December 2, 2015 The Board approved Work Order No. 1 ‘Phase 3B Interconnect Preliminary Design Services’ for \$397,958 which included \$25,000 of contingency funding with the stipulation that work not be commenced until a letter of funding commitment had been received from Sarasota County for the cost. Work Order No. 1 included evaluation of up to five (5) major pipeline corridor routes between the existing terminus of Phase 3A at 681 northwards to Clark Road. This work included efforts to coordinate with multiple Sarasota County Departments for future planning and infrastructure work in this area. The work included modeling of flows and pressures and will result in a recommendation for pipeline diameter, a route, a possible pumping station location and estimated construction cost. This effort was planned to be completed within 270 calendar days.
- January 26, 2016 Sarasota County Board of County Commissioners approved a letter of funding commitment for the entirety of the cost of Work Order No. 1 at \$397,958 should the out-of-cycle funding request to the Water Management District to cover part of Work Order No. 1 be denied.
- January 28, 2016 Authority Board approves out-of-cycle funding request to the Water Management District for the project
- February 3, 2016 Authority staff sends a letter requesting out-of-cycle funding for the project to the Water Management District.
- February 3, 2016 Authority staff issue Notice-to-Proceed to King Engineering Associates Inc. for the project. It is noted that this approximately 2 month’s post Board-award of the Contract Work Order No. 1. This delay is considered unavoidable as the Authority Board clearly indicated work should not commence until funding was assured. Authority staff not this delay could not be avoided and will be considered if the work under Work Order No. 1 should run into difficulty meeting its original 270 calendar day schedule for completion.
- February 17, 2016 Project kickoff meeting was conducted at the Sarasota County BOB Building including staff from Sarasota County, King Engineering Associates Inc., Southwest Florida Water Management District and the Authority. A significant amount of planning information was delivered to the team by Sarasota County staff.
- February 25, 2016 Draft of Interlocal Agreement as required by the MWSC for the Phase 3B Regional Interconnect Project between the Authority and Sarasota County distributed to key County staff for review and comment.

- February 29, 2016 Project meeting conducted with Sarasota County Utilities Water System staff at the Sarasota County BOB Building including staff from Sarasota County, King Engineering Associates Inc. Southwest Florida Water Management District and the Authority. Items discussed at the meeting were County expectations concerning delivery pressure and disaggregation of future water demands. County staff also related their intended operational protocols for the new project and provided feedback on preliminary pipeline routes.
- March 14, 2016 Project meeting conducted with Manatee County staff at the Manatee County Utilities Operation Division facility on west Cortez Road. Participants included staff from Manatee County, King Engineering Associates Inc. Southwest Florida Water Management District and the Authority. Items discussed included location of existing Manatee County water mains near the county line, planning for future water mains and expectations regarding emergency supply interconnection and routine water transfers in large mains that may be needed to keep water mains from becoming stagnant.
- March 25, 2016 Project meeting with Sarasota County Utilities Water, Solid Waste and Stormwater System staff at the Sarasota County BOB Building including staff from Sarasota County, King Engineering Associates Inc. Southwest Florida Water Management District and the Authority. The team discussed constraints in the area of the Sarasota County Landfill and Dona Bay project areas including the alternate landfill access route along Knights Trail Road, planned roadway improvements in the area and the need for the landfill and Dona Bay projects to collaborate on significant earth movement projects over the next several decades and how this might impact some of the pipeline routes.
- April 8, 2016 Project meeting with Sarasota County Utilities, Planning and Transportation Department staff at the Sarasota County BOB Building including staff from Sarasota County, King Engineering Associates Inc., the Southwest Florida Water Management District and the Authority. The group discussed planned roadway developments in the project area over the next several years.
- April 18, 2016 Project meeting with Florida Power and Light (FP&L) including staff from King Engineering Associates Inc. and the Authority at the FP&L Hammock Place Substation Operations Center in Sarasota. The group discussed co-locating water lines within or proximate to existing power transmission corridors for the Phase 3B as well as Phase 1 regional interconnect pipeline projects.
- June 20, 2016 Project meeting with Sarasota County staff including staff from King Engineering Associates Inc., the Authority and SWFWMD

staff at Sarasota County BOB building. The group discussed potential pipeline corridors and the project team elicited County input on suitability of corridors north of SR 72 (Clark Road). Although the Phase 3B project does not currently extend northward of Clark road at this time, where Phase 3B gets installed will greatly influence the routing for future Phase 3C anticipated sometime after the year 2022. County staff expressed a preference for routes further east, away from existing development where there are fewer existing encumbrances. Many of the eastward routes under consideration also would likely involve lower land acquisition costs since the County owns much of the land along those potential routes. The Project team also discussed conceptual level costs.

- June 21, 2016 Amendment No. 1 was issued to King Engineering Associates, Inc. for Work Order No. 1 to fund an effort behind identifying potential parcels for a Phase 3C pump station in the vicinity of Fruitville and Lorraine Roads. Although this pump station will not be constructed as a part of Phase 3B, it was deemed prudent to start the search activity now while vacant, undeveloped lands were still available in that region. This effort will only identify suitably sized parcels; it does not include contacting landowners to assess their willingness to sell not real estate negotiations. This work was funded using \$24,849 of the Owner's Contingency Allowance.
- August 2, 2016 Met with a property owner along one of the potential routes to discuss potential easement acquisition: Roman Catholic Diocese of Venice.
- August 16, 2016 Met with a property owner along one of the potential routes to discuss potential easement acquisition: LT Partners, LLLP.
- August 16, 2016 Met with a property owner along one of the potential routes to discuss potential easement acquisition: Mrs. Hawkins.
- September 6, 2016 Presented summary of potential Phase 3B pipelines routes and discussed selection criteria and weighting factors with Sarasota County staff. At this point all of the environmental assessments have been completed including wetland assessments, protected species reviews, floodplain issues and soils reviews. In addition, all potentially affected private property owners along the routes have been contacted regarding acquisition of easements and that feedback was shared with County staff. King Engineering indicated route selection would be completed within the next 2 weeks and the draft Basis of Design Report was tentatively planned for completion by the end of the month.

Finally, the effort to conceptually lay out a future Phase 3C pump station and identify suitable parcels for acquisition was completed and staff was briefed on those findings and recommendations.

- September 8, 2016 Provided electronic copy of Pump Station Siting Memorandum to County staff for review.
- October 24, 2016 Authority staff reviewed draft chapters of the BODR and provided feedback and comments to King Engineering.
- October 28, 2016 Provided update to Sarasota County staff on status of the project at the County's BOB facility.
- November 8, 2016 King Engineering hand delivered the draft BODR (hardcopies and CDs) to the Authority's Lakewood Ranch office.
- November 9, 2016 Hand delivered the draft BODR report for review and comment to Sarasota County (hardcopy and CD) and in electronic version (CD) only to the following: Charlotte County, Desoto County, Manatee County and the City of North Port.
- November 17, 2016 Transmitted copies of the draft BODR to both of the project's FDEP and SWFWMD Project Managers, respectively for consideration and comment.
- December 1, 2016 Received review comments on the draft Phase 3B BODR from SWFWMD project manager.
- January 3, 2017 Coordination meeting with King Engineering Associates, Inc. to develop scope for final design work order.
- February 1, 2017 Authority Board Meeting at the PRF. At this meeting:
 - The Board accepts draft Phase 3B Pipeline BODR.
 - The Board is briefed on the concept of dislocating the Phase 3B Pump Station from the Pipeline Project and migrating the pump station further north where there is greater immediate need.
 - Board authorizes Work Order No. 2 'Phase 3B Interconnect Final Design, Permitting and Bid Phase Services' to King Engineering Associates, Inc., for an amount not to exceed \$1,090,391. This effort included a task to complete a BODR for the Pump Station to be returned to the Board within the next 4 months.
- February 9, 2017 Project coordination meeting with SWFWMD staff to discuss cooperative funding for the project. Topics discussed included

schedule, cost and deliverables and legal review and coordination of agreements.

- March 10, 2017 Project coordination meeting with Sarasota County staff at the Sarasota County Central Solid Waste Complex attended by County Solid Waste, County Stormwater and County Utilities staff. Topics discussed included gaining access to the route for project surveyors and the soils testing and ecological consultants. We also discussed how to navigate around/under/over county conveyances and roads with our pipeline.
- March 10, 2017 Received authorization from Sarasota County Solid Waste for surveyors to access the pipeline route to commence gathering topographic data.
- March 30, 2017 Project update meeting with Sarasota County staff at the County's BOB location off Fruitville Road attended by County staff, Authority staff and King Engineering.
- April 7, 2017 AWWA Annual Water Taste Testing Event conducted at the SWFWMD's Fruitville Road location. The guest speaker from Carollo Engineers and provided an overview of a Two County Water System Hydraulic Model they were working to complete for Sarasota and Manatee Counties.
- April 26, 2017 Workshop at the Sarasota County BOB location with Sarasota and Manatee Counties and their mutual consultant, Carollo Engineers, to discuss the recently completed Two County Water System Hydraulic Model.
- May 1, 2017 Project coordination meeting with the SWFWMD in the Tampa Service Office to meet their designated 3rd party reviewer for the project (CDM) and to discuss coordination details, data needs, schedule and expectations.
- May 9, 2017 As agreed with Sarasota County staff, King Engineering Associates, Inc. reached out to Sarasota National Cemetery representatives to register interest in utility easements along the southern boundary of their property and inquire about the cemetery's willingness to cooperate on such a venture.
- May 15, 2017 King Engineering provided electronic copy of the draft Phase 3B Pump Station BODR for review and comment.
- May 16, 2017 Pre-application meeting with the FDEP in Fort Myers, FL.
- May 19, 2017 Completed internal review of Phase 3B Pump Station BODR and transmitted to King Engineering for implementation.

- May 22, 2017 Transmitted an electronic copy of the draft Phase 3B Pump Station BODR to Sarasota County for review and comment.
- May 22, 2017 Provided project WaterCAD model to the SWFWMD for their designated project 3rd party reviewer (CDM).
- May 24, 2017 Pre-application meeting with the US Army Corps of Engineers in Tampa, FL.
- May 24, 2017 Received final Phase 3B Pipeline BODR electronically. Changes from the draft BODR document accepted by the Authority Board in February are not substantive but editorial in nature.
- June 2, 2017 Received comments from Sarasota County on Phase 3B Pump Station BODR document responded in kind the same day. Several questions were answered and County preferences expressed that the Authority agreed to implement should this project proceed to the final design stage.
- June 2, 2017 Progress Meeting with King Engineering Associates at the Authority's Lakewood Ranch Office.
- June 7, 2017 Authority Board of Directors accepts the Final Phase 3B Pipeline BODR and the Final Phase 3B Pump Station BODR documents.
- June 12, 2017 Project team met with Authority legal counsel to generally discuss easement acquisition processes. The Phase 3B route falls entirely on County-owned property and so it is not envisioned that private easement acquisition will be necessary. This meeting was more a perfunctory opportunity to meet with counsel to advise them on the overall status of the project and confirm the current understanding of overall easement needs.
- June 23, 2017 King Engineering presented the compressed vertical profile for the pipeline, known in the industry as an "EKG" because it resembles a graph similar to the up and down pattern reflected in a heartbeat monitor. This tool is used to determine the relative high and low points of the pipeline which govern the installation locations for pipeline air relief valves and blow offs.
- July 3, 2017 Project team made the decision to case the 3B pipeline where it crosses from the west to the east side of the 100 foot right-of-way strip which serves as an alternate access route to the landfill from Clark Road. This will better ensure that the pipeline will be unaffected in the future should this transportation corridor door be developed.

- July 11, 2017 Transmitted Copies of Final Phase 3B Pump Station and Pipeline BODRs to FDEP point-of-contact.
- July 18, 2017 Site visit with SWFWMD staff and staff from their 3rd party reviewer, CDM.
- July 25, 2017 Met with project team at King's Tampa Offices to view mechanical pipe joint coupling hardware alternatives and listen to technical presentation by Northwest Pipe Inc. about their products for use in this project.
- August 18, 2017 Consultant reviewed the design specifications for the County's CS-03 slide gates that will hold back water during the constructed crossing of the main north-south Dona Bay conveyance channel. The team found that these gates would be acceptable to hold back the full channel height of water during construction.
- August 18, 2017 Consultant developed an analysis of the comparative cost and difficulty of construction corridor width through wetlands. A narrower path adds construction complexity but impacts fewer wetlands and costs less from a mitigation standpoint. Authority staff directed Consultant to utilize the narrowest practical path possible through the wetlands (30-feet wide). The expected net construction cost impact of this decision was under \$10,000.
- August 30, 2017 Met with SWFWMD staff, King Engineering staff and CDM staff at SWFWMD's Tampa office to review 3rd party review comments on the Phase 3B Interconnect Pipeline BODR.
- September 14, 2017 Consultant delivered 60% design drawings to Authority staff.
- September 20, 2017 Authority staff delivered review copies of 60% Design Package to Sarasota County Utility Staff as well as the Solid Waste Department since the project is constructed on lands which fall under their purview.
- September 20, 2017 SWFWMD shared final 3rd party review of the Phase 3B Pipeline Interconnect BODR with Authority staff.
- September 27, 2017 Tentatively scheduled to submit Army Corps of Engineers permit application for the project
- October 9, 2017 Submitted Army Corps of Engineers permit application for the project.
- October 10, 2017 Authority staff received draft project technical specifications from King Engineering.

- October 10, 2017 Project team reached consensus on approach on the design approach in the area of the CS-03 flow way in deciding not to rely upon the County weir structure for upstream channel flow control. The design concept will include a double sheet pile wall on either side of the excavation – this reduces risk to the County structure and the pipeline construction project.
- October 23, 2017 FDEP project manager indicated receipt and acceptance of the 60% design package.
- October 23, 2017 Sarasota County Stormwater Department indicated they had no comments on the plans.
- October 30, 2017 Sarasota County Solid Waste Department provided review comments on the 60% Design Plans.
- October 30, 2017 Project team noted discrepancies in the CDM 3rd party review cost estimate document to SWFWMD project manager, however, these discrepancies did not result in a material difference to the estimate.
- November 6, 2017 Project team is coordinating with the Sarasota County Solid Waste Department to ensure that the casing design for the pipeline under the haul road is sufficient to handle loading of loaded articulated dump truck traffic.
- November 8, 2017 Received feedback from Sarasota County Transportation Department of a future roadway that could cross the pipeline and the project team is working on design changes to reflect a casing in this area so that the roadway could be built over the line without impact to the pipeline.
- November 14, 2017 Project team scheduled a site visit to Sarasota County Pump Station No. 5 for December 4th to view the site with the intent of possibly coordinating flushing and disinfection between the Authority's Phase 3B and the County's 24" pipelines.
- November 17, 2017 King Engineering provided the final Geotechnical Exploration Report for the pipeline route.
- December 4, 2017 The project team toured Sarasota County Pump Station No. 5 to better understand how the Phase 3B project needs to integrate with the County water system.
- December 6, 2017 In a meeting with County personnel the request was made to add fiber optic conduit along with the pipe to give the County the flexibility of pulling in fiber cables for communications/data in the future. Authority staff conferred this direction to the King project team.

- December 28, 2017 Sarasota County personnel (Planning & Development Services/Environmental Protection Department) advised that utility work is exempt from tree permitting except for “Grand Trees” (trees of exceptionally large trunk diameter). There is one such tree along our planned route and the project team is considering the various options.
- January 4, 2018 The King project team provided the Authority with 90% Design documents. Authority staff began their internal review.
- January 12, 2018 The project team coordinates specifications for the requested fiber optic conduit to be buried coincident with the pipeline.
- January 18, 2018 The project team is preparing to submit the ERP permit application to FDEP and has requested a permit application fee check.
- January 22, 2018 Consistent with our intent to prequalify contractors for this project, staff is reviewing the draft Request for Statements of Qualifications developed by King Engineering. It is anticipated that this process will commence shortly culminating with a list of approved contractors being presented for the Board’s consideration in April 2018.
- January 23, 2018 Delivered 90% Design Documents to Sarasota County, FDEP and SWFWMD for review.
- February 1-6, 2018 Began coordination with Water Supply Authority legal counsel on easement matters.
- February 9, 2018 Published advertisement constituting the Invitation to Submit Statements of Qualifications for Contractor Prequalification for the Phase 3B Pipeline.
- February 16, 2018 Issued Addendum # 1 to the Invitation to Submit Statements of Qualifications under the Contractor Prequalification effort which began on February 9th.
- February 16, 2018 Received review comments from Solid Waste Department that included corrective notes on about a dozen sheets, clarification of soil/fill management expectations, locations for contractor staging areas and access instructions. Solid Waste also expressed caution about potential land use issues that could be associated with truck/contractor access from SR 72 (Clark Road). Finally, they reminded the team of the private property owner who has an easement over county lands that we will need to cross to build the pipeline (*note, this is the same issue was addressed in the earlier bullet reflecting activity from February 1st -6th*).

- February 27, 2018 Issued Addendum # 2 to the Invitation to Submit Statements of Qualifications under the Contractor Prequalification effort which began on February 9th.
- March 1, 2018 Received notice of “no comments” from the Sarasota County Stormwater Department, but they had been copied on the earlier Solid Waste Department’s comments and so had been fully integrated into the discussions from that Department’s review.
- March 1-2, 2018 Sought and received confirmation from the County Solid Waste Department regarding areas it would be suitable for the pipeline contractor to stage from without impacting County operations on the site.
- March 2, 2018 Review meeting with Sarasota County Utilities. The project team was notified that the County intended to construct a 30-inch diameter interconnecting line. The terminal end assembly had originally been sized for 24-inch diameter pipe. The project team indicated they would likely increase the Water Supply Authority pipe to match but needed to discuss with other stakeholders first. The group also discussed options for dealing with a ‘grand tree’ that had been identified along the project route and decided it would be best to schedule a follow-up meeting with County Natural Resources personnel and involve them in the decision process.
- March 12, 2018 Received prequalification SOQ packages from perspective contractors.
- March 13, 2018 Received FDOT permit for construction along Clark Road (SR 72).
- March 20, 2018 King Engineering develops a letter of recommendation regarding contractor prequalification and Authority posted the Notice of Intended Decision on its website indicating that all five (5) of the Prime Contractors who submitted packages were deemed suitable and recommended they all be approved as Prequalified.
- April 4, 2018 Authority Board of Directors accepts and approves list of prequalified contractors to include (listed alphabetically):

Felix Associates	Stuart, Florida
Garney Construction	Clearwater, Florida
Reynolds Construction	Pompano Beach, Florida
Westra Construction	Palmetto, Florida
Woodruff & Sons	Bradenton, Florida

- April 11, 2018 FDEP issues draft ERP permit.

- April 11, 2018 Project team meets with Sarasota County environmental manager James Dieroff to discuss possible alternatives for the Grand Tree identified along the route.
- April 18, 2018 Project team identified that expected detail regarding mitigation appeared to be missing from the FDEP draft ERP permit, contacted FDEP to discuss and through discussion realized coordination issues stemmed from submittal of the entire BODR, which included all possible routes considered as supplemental information. Project team promised to send revised supplemental information more finely tuned to the selected route that is needed to update the draft ERP by the end of the month.
- April 24, 2018 Project team provides U.S. Army Corps of Engineers permit reviewer with supplemental information requested to help clarify the many legs of the regional integrated loop system pipeline phases and segments.
- April 24, 2018 Notified County and District Project Managers that legal counsel advised resolutions be passed at the next Authority Board Meeting confirming route of the pipeline as well as necessity for need of easements to enable easement acquisition through eminent domain procedures if needed. The preferred path forward will be through amicable negotiations but underpinned by ability to avoid protracted delays if that strategy proves fruitless.
- May 4, 2018 Project team provided to FDEP suggested modifications to the draft project ERP language to clarify certain information including the selected route and mitigation details.
- May 9, 2018 At regularly scheduled professional staff meeting, Authority staff conferred with Sarasota County staff about the above-described easement acquisition plan and the value in scheduling a project update/progress meeting for various key County staff.
- May 9, 2018 Project team met with newly assigned Army Corps permit reviewer to provide a briefing on the project.
- May 10, 2018 Submitted Grand Tree Permit application to Sarasota County.
- May 11, 2018 Army Corps permit reviewer initiates contact with adjacent property owners (this is an important part of their permitting process).
- May 16, 2018 At prompting from County Engineering Consultant Kimley Horn, provided updated hydraulic residence time calculations as

developed by King Engineering for the Phase 3B design inclusive of the final pipe sizes/lengths selected.

- May 24, 2018 A meeting was conducted with the single private property interest along the route to provide information, assurances and discuss accommodation of needed permanent and temporary construction easements over property owner's existing ingress/egress easement. The meeting was cordial and a mutually agreeable and amicable path forward was planned.
- May 25, 2018 Army Corps of Engineers publicly noticed the project which is a precursor step to permit issuance. The deadline for comments is June 18, 2018.
- June 19, 2018 Negotiated FDEP concurrence to utilize credits from the Myakka Mitigation Bank for this project as there were no other viable options close by.
- June 26, 2018 Submitted Water Main Construction Permit application to the Sarasota County Health Department.
- July 2, 2018 Project team discusses how to best feed fiber optic through casing pipes along with the carrier pipe.
- July 6, 2018 Received direction from Sarasota County Real Estate Department on County expectations for temporary construction and permanent utility line easements.
- July 10, 2018 Received appraisal for Houghtaling access rights, they are of nominal value which would have been useful for condemnation but with amicable negotiations proceeding to cooperatively use the 100' wide strip of land with Mr. Houghtaling, this fact may be immaterial.
- July 12, 2018 Received Sarasota County Department of Health permit for the project.
- July 17, 2018 Participated in meeting with Sarasota County Utility staff on coordinating the Phase 3B pipeline with the County's line from Pump Station No. 5. The group also discussed the inclusion of several casings for possible future roadways. The consensus was that this is good insurance, if the roads are ever built, we will be ready for them, otherwise there might be a need for service interruption in the future to accommodate roadway construction.
- July 18, 2018 Published notification of ERP and ERP Modification.
- July 23, 2018 Submitted RAI # 1 response to the Army Corps of Engineers.

- July 27, 2018 Met with Sarasota County Real Estate Department to give a presentation on the project to provide background for the multiple easements we will be seeking from the County.
- July 30, 2018 Shot aerial drone footage of the project route to use in discussions with County staff.
- August 6, 2018 Received direction from Sarasota County to make a presentation to the County Solid Waste and Stormwater Departments to keep them informed about the pipeline project, to help them understand how it might impact their operations and to solicit suggestions for ways to improve the project.
- August 13, 2018 Met with Authority legal counsel to discuss upcoming contract preparation work.
- August 22, 2018 Met with personnel from the County Stormwater and Solid Waste Departments to present an overview of the pipeline project and solicit feedback/suggestions.
- August 29, 2018 Authorized use of contingency funds to prepare temporary construction and permanent easements descriptions and sketches requested by Sarasota County Real Estate Department.
- September 10, 2018 Army Corps of Engineers staff contacted King Engineering for supplemental wetland mapping information.
- September 10, 2018 Project team realized that the proposed solar powered automated access gate to be installed to protect Mr. Houghtaling's driveway needs to be moved south about 250 feet to reach an area that is sufficiently free of trees so that the solar panels would be assured to receive adequate sunlight.
- September 13, 2018 Army Corps of Engineers staff requested copies of the FDEP ERP permit which had been granted.
- September 18, 2018 Revised project schedule to show tentative hold on bidding until May 2019 to allow time for the County's water main design to progress to a point where we can better assure both pipelines will be completed at about the same time (early 2021).
- September 19, 2018 Received draft US Army Corps of Engineer's permit.
- October 9, 2018 Returned US Army Corps of Engineer's permit executed with no objections.

- October 10, 2018 Remitted payment in the amount of \$11,830 to the Myakka Mitigation Bank, LLC for 0.07 offsetting Palustrine Freshwater Forested credits for pipeline impacts.
- November 8, 2018 Joined with County staff for a public meeting at the Lakeview Elementary School to discuss the Phase 3B Interconnect Project and the County's proposed pipeline connecting to Phase 3B with interested citizens.
- December 24, 2018 Responded to questions from County staff on recommended setbacks from the pipeline for Dona Bay excavations.
- December 27, 2018 Worked with County staff to secure acceptable contractor staging areas for the pipeline project.
- December 28, 2018 Worked with County staff to secure acceptable contractor staging areas and site access control for the pipeline project.
- January 9, 2019 Provided County Real Estate Department with draft temporary construction easements and permanent utility easements for review.
- February 13, 2019 County Real Estate Department approves form of temporary construction easements and permanent utility easements and tentatively schedules easements to be presented to Sarasota County BOCC in May 2019.
- March 19, 2019 Authority legal counsel coordinating access agreement documents with the single private landowner who has an ingress/egress agreement with the County over a portion of the pipeline route.
- May 14, 2019 Project is advertised. Here is a synopsis of relevant dates:
 - May 14th - Advertisement
 - May 31st - Mandatory Pre-Bid Meeting
 - June 14th – Deadline for Questions
 - June 26th – Bid Opening
- June 26, 2019 Four bids received ranging from a low of \$12,092,815 to a high of \$15,571,092.87.
- July 3, 2019 Engineer of record has reviewed the bids and recommends low bidder, Garney Companies, Inc. of Winter Garden, FL.
- July 9, 2019 Authority posts Notice of Intended Decision.

- July 11, 2019 Authority project staff met with Sarasota County staff on June 13, 2019 to discuss clearing and disinfection coordination for the Phase 3B Interconnect and the County's 30-inch diameter pipeline project from Clark Road to Pump Station 5. Four project bids received from pre-qualified contractors on June 26, 2019. Low bid of \$12,092,815 was submitted by Garney Companies Inc. is advertised.
- July 31, 2019 Authority Board of Directors awards construction contract for Phase 3B Regional Interconnect Project to Garney Companies, Inc for a cost not-to-exceed \$12,092,815. Authority Board of Directors also awards a Construction Phase Services work order to the engineer-of-record, Ardurra for an amount not-to-exceed \$1,355,508.
- August 6, 2019 Project team meets with Sarasota County Solid Waste Department to cover site access expectations and procedures.
- August 29, 2019 Project team meets with Sarasota County Stormwater Department to cover utility conflict concerns and coordination issues.
- September 5, 2019 Project kickoff meeting conducted at the Sarasota County Central Solid Waste Disposal Complex. Attendees included members of Authority staff, Sarasota County staff, the engineer Ardurra, the contractor Garney and the Southwest Florida Water Management District.
- October 2019 Two progress meetings were held this month as the project team continues to work on construction submittals in advance of the physical construction.
- November 2019 Progress meetings were cancelled this month although the project team continued to work remotely in advance of the start of physical construction.
- December 2019 Construction trailers were mobilized to the site. The project team continues to collaborate on schedule and submittals.
- January 2020 Equipment mobilized to the site and clearing commenced.
- February 2020 Equipment still arriving to the site. Pipe deliveries are being made (along with valves and other appurtenances). Clearing continues along with installation of dewatering systems. Contractor utilizing an alternate route to give a documented, active American Bald Eagle nest a wide berth as is required by law through the end of the nesting season in late May.
- March 2020 Onsite training for cathodic protection was completed. Clearing still underway, the Albritton ditch crossing was installed so that traffic can now pass continuously from North to South along the entire

pipeline route. Pipe installation was scheduled to commence March 16th (the day this was being written) beginning at the southernmost end of the project. A second pipe crew is expected towards the end of the month – they will focus on installing pipe beginning at the north end near the National Cemetery.

- April – May 2020 Crews have made excellent progress installing both steel pipe as well as ductile iron pipe using two separate crews. The second crew, first mentioned in March, had become available because they were working at Disney when the theme park halted all construction work there due to the Covid-19 quarantine protocols. As of this writing, the second crew had completed installation of the ductile iron main buried piping and was at work on the raised control valve assembly near Clark Road. This has placed Garney far ahead of schedule and they forecast being completed perhaps 5 months earlier than the deadline embedded in the contract.

The project roughly attained the halfway completion point in the month of May 2020. Importantly, the contractor has concluded pipeline work along the boundary of the U.S. National Cemetery, which included significant linear wetlands and is currently working on the crossing of CS-03 canal structure which is a part of Sarasota County's Dona Bay Storage and Treatment System. It was critically important to finish work in both areas before the onset of the 2020 wet season and it appears the contractor will be successful on both counts there.

Covid-19 impacts have been negligible on the project. No material shortages have been reported. And the dispersed, outdoor nature of pipeline construction allows the contractor to easily comply with safe distancing guidelines. Nevertheless, the contractor did adopt mandatory mask protocols for its employees. Project meetings transitioned in March to remote via technology platforms.

- June – July 2020 Critical crossings of the CS-03 canal (part of the Dona Bay System) and the Sarasota County Landfill Haul Road were completed before the summer rains began in early June. Groundwater levels have been elevated and have slowed progress significantly. The secondary crew was demobilized and the contractor took long periods of time off due to weather and also due to illness of key personnel. Several of the contractor's employees had contact with family or community members who had tested positive for Covid-19 and were voluntarily quarantining and getting tested as a precaution. But none of the contractor's workforce was ever diagnosed with the virus.

Compaction of trench fill has been a challenge since the rain began. There are areas that the contractor will need to return to, excavate and recompact at a later date. The contractor continues to dynamically adjust their methods to overcome the high moisture conditions.

All pipe and valves have now been delivered to the site. The contractor continues to update its Covid-19 protocols pursuant to official guidance.

- July – Sept 2020
Typical summer rains have slowed construction progress compared with earlier in the year but the contractor still remains on track to complete this project several months ahead of the April/May 2021 deadline. Major activities remaining include installation of a little over a mile of 48” diameter steel pipe and many appurtenances on the pipeline such as air relief/vaccum valves and blowoff assemblies. Unless there are significant rains or unforeseen challenges, all pipe is scheduled to be installed by early October.

All of the steel pipe joints need to be mortared from inside the pipe, that is a process that will take a crew about 2 weeks to complete. The pipe must then be filled, flushed, pressure tested and disinfected. The final pipeline activity will be functional testing of the terminal control valve at Clark Road. Those activities will take place through the month of November and early December.

Miscellaneous activities over the next 4 months include installation of the fiber optic conduit that is being run alongside the pipeline, capping and marking of sock drains, surface restoration work and general site cleanup activities. The contractor believes they will reach final completion with all activities in the month of January 2021.

Pandemic impacts have not been significant. Contract tracing is in effect, any site visitors are requested to complete a form stipulating their contact with any CoVid-positive cases and they are asked to divulge whether they themselves have been sick with the virus or have felt poorly recently. The contractor has reported no supply or labor shortage issues related to the virus/pandemic.
- Sept – Nov 2020
Summer precipitation had begun to slow but then tropical storm Eta drenched the region in early November with several inches of rain. There is about a quarter mile of pipe that was installed but failed to fully meet compaction criteria. The contractor intends to uncover the pipe in that area when the rains stop and use dewatering to recover the pipe to meet the specifications. All pipe has been installed, the internal pipe welding and grouting at every has been completed. The pipe is currently being filled and will be flushed shortly.
- Dec ‘20 – Jan ‘21
Pipe Flushing has been completed. All Pipe installed has now met compaction criteria. Disinfection and final site cleanup and restorative work is underway.

- Feb '21 – March '21 Disinfection has been completed and FDOH clearance is anticipated. Contractor completed installation of fiber optic cable conduit and installation of anodes beds. Clean up and site restoration continued this period. Contractor continues to submit project close out documentation.