

M E M O R A N D U M

To: Tom Harmer, Town Manager
From: Isaac Brownman, Public Works Director
Report date: June 24, 2021
Meeting date: July 2, 2021
Subject: Utilities Undergrounding Project Update

Recommended Action

None, informational only.

Undergrounding Project – Design-Build RFP

Wilco-FPL

A summary of work accomplished to date including the current high-level accomplishment and status for the Utilities Undergrounding Project follow.

Phase 1

The remaining work in Phase 1 will be accomplished with an adjusted schedule for contractor completion dates.

- Feeders from North extent of Phase 1 to Sloop Lane are energized.
- Wilco has energized primary voltage distribution loops at all Country Club Shores Sections IV and V streets, as well as II and III. They have completed energizing related transformers and conducted 339 of the 414 (82%) of residential conversions to date, with conversions occurring daily.
- To date all primary distribution switch orders are complete within Country Club Shores Sections with the exception of Sloop Lane, Spinnaker Lane, Channel Lane, Bay Harbor Condominiums and Sailboat Square. The Mobil gas station through the Town's South Water plant primary distribution loop is energized and secondary service conversions are complete. The next series of switch orders for remaining GMD feeders will be approved after conversions are completed in the current activated sections.
- FPL begun wreck-out (removal of utility and power lines, and appurtenances from poles, including the poles as well) of the existing aerial lines on June 16 with their approved contractor, Volt Electrical. Work started on Bowsprit and efforts will continue within Country Club Shores V & IV before advancing into the remaining residential streets. Similar to the switch-order process, this effort is managed directly by FPL so we have no control of the schedule. Residents will periodically see Volt crews performing the wreck-out but work may not occur daily. The Project Management team is working closely with FPL and Volt to ensure all sections are completed as efficiently as possible.
- Wilco and their sub-contractor (Leaders) have begun installing Town fiber within the Bay Isles/Harborside community. To date crews have completed

the installation along the primary corridor of Harborside Drive and will begin working within the respective residential streets in the coming weeks. Work is on schedule to be completed by mid-July.

The project team conducts routine calls to closely coordinate with all parties to efficiently achieve the final conversions and will continue to provide routine updates to local residences as we continue to get clearances. The team is working to ensure this can be completed efficiently and will provide as much advance notice to homeowners as possible.

All street light poles arms and fixtures in Phase 1, except for those in close proximity to active power lines, have been installed and are being wired and connected to the newly installed Town power distribution centers. Gulf of Mexico Drive poles have been installed in the North and South intersections of Longboat Club Road and the South intersection lights are activated.

Phase 2

Wilco continues progress in the South quadrant (Reclinata to Dream Island Road, including Sleepy Lagoon) of Phase 2 installing FPL, Town fiber/streetlight, and Comcast conduits, splice boxes, transformer pads, and secondary laterals to residence meter locations. In the coming weeks crews will be moving South along Gulf of Mexico Drive, FDOT corridor, installing fiber and highway lighting conduits as well.

Phase 3

- Wilco has begun installing FPL, Town fiber, and Comcast conduit within Phase 3. Work is currently being performed from Putter Lane to Bay Isles intersection along the Gulf of Mexico Drive FDOT corridor.
- Frontier and Comcast work is also in progress in this phase.
- Town fiber and GMD highway lights conduits are being installed concurrently.

Phase 4

- FPL has provided the Binding Cost Estimate (BCE) for Phase 4. The BCE looks favorable and in-line with earlier budget expectations. FPL's final design plans are also being provided. The project team will immediately start performing quantity take-offs so we can begin to determine the final construction costs and procure a Work Assignment with Wilco Electrical.
- Upon signature of the BCE Phase 4 FDOT permits will be obtained.
- Phase 4 fiber & streetlight design is in progress.
- Comcast & Frontier Phase 4 design is planned to coincide with FPL design.

Frontier

Frontier has completed work within Phase 1. Meanwhile, Frontier is actively working to complete their undergrounding and/or removal of non-active aerial facilities, and conversions of aerial fiber drops within Phase 2 and Phase 3; and reviewing designs for activation of work assignments in Phase 4.

Comcast

For Phase 1, Comcast has completed all installations and their final cut-over to pave the way for their aerial facilities to be removed. The project team is working with Comcast to confirm all of their aerial facilities in Phase 1 have been removed.

Town staff is continuing to coordinate with Comcast in the field to verify design plan installations are complete ahead of our current work within Phase 2 neighborhood sections. The project team is also working with Comcast to have them finalize their Phase 4 permit drawings.

Street Lighting and Smart City concepts

Phase 1 street lighting installation is primarily complete and energizing the system is to coincide with switch order progress. All final conversion to new streetlight systems will coincide with FPL pole removals.

The project team is continuing outreach to homeowner association representatives to update them as the project progresses through each Phase of the project.

The Town has engaged a qualified and competent advisor, KCI Technologies, Inc., to provide guidance, recommendations and assist with the ongoing planning of smart city/cellular/fiber project elements and continued conversations with providers. Meetings continue with service providers and carriers with design/build team efforts and future plans for fiber, use of street light infrastructure, installations, deployment and marketing.

Budget Summary

Phase 1, Phase 2, Phase 3

To date, the Town has not utilized contingency funds for any of these three phases. The project has remained under the original budget as in previous updates.

Phase 4 - Final Phase (includes the Northern portion of original Phase 5)

The Town is currently in receipt of Phase 4 Binding Cost Estimate (BCE) and initial estimates are favorable. This will be the final FPL portion of the overall project and will help determine what the final total cost for all FPL undergrounding work will be. Project team members will quickly begin putting together the total quantities so we can determine the final construction costs. Fiber & streetlight costs are currently under review and within budgeted amount as well.

Multipurpose Pathway Lighting Update

Town staff is working with Wilco to review and refine options for Multi-Purpose Pathway Lighting. Options will be brought to the Commission in the future. The Town is working with Wilco to target 36" to 42" bollard style lighting that will be focused onto the pathway. Cost per unit length will be developed, followed by a review of recommended locations.

Next Steps

- Continued work in all Phases will be accomplished with an adjusted schedule for Phase 1 contractor completion dates.
- Final coordination of switch orders for power conversions in Phase 1. Energizing of street lights and removal of poles.

- Continue undergrounding work in Phase 2.
- Continue undergrounding work in Phase 3
- Finalize remaining Phase 4 designs for locations of street light poles, fiber-optic conduits, and electrical connections with Wilco.
- Obtain FDOT permits for all Town fiber and street light work on GMD for remaining Phase 4.
- Further develop and refine GMD multi-purpose pathway lighting options for presentation to Town Commission.
- Continue working with our advisor, KCI, to assist with ongoing planning of smart city/cellular/fiber project elements and to help advance continued conversations with providers.

Staff Recommendation

None, informational only.

End of Agenda Item