

M E M O R A N D U M

TO: Tom Harmer, Town Manager
FROM: Isaac Brownman, Public Works Director
REPORT DATE: September 13, 2019
MEETING DATE: September 23, 2019
SUBJECT: Utilities Undergrounding Project Update

Recommended Action

None, informational only.

Background

At each Regular Workshop Meeting, Public Works staff provides a status report to the Commission regarding the Utilities Undergrounding and Fiber Project. When necessary, staff will seek Commission policy direction or concurrence regarding elements of the project.

Undergrounding Project – Funding

The Town Commission may formally adopt the Fiscal Year 2019-2020 (FY20) budgets including Undergrounding components at the September 23, 2019 Special Meeting. No additional information this month.

Undergrounding Project – Design-Build RFP

The Town is in receipt of permits from the Florida Department of Transportation (FDOT) for FPL and Frontier and anticipate permits for Comcast to perform work within the FDOT right-of-way for Phase One and Two of the project. This allows both Wilco Electrical, LLC, the Town's contractor, and Frontier to continue work within Phase One and Two undergrounding areas along Gulf of Mexico Drive (GMD), inclusive of the Broadway corridor on the North end of the island. Frontier is substantially complete with Phase One.

Wilco has been issued work assignments for Phase One and Two for FPL work in the GMD corridor. All conduits have been placed in Phase One of GMD and work continues in placing switch gear, transformer splice boxes, and concrete pads. Phase Two work continues in placement of conduits in the Broadway area and northern end of the GMD corridor from Longboat Pass Bridge working towards the southern terminus of the phase. We are coordinating with Wilco and FPL for design changes that may allow installation of feeder and primary conduits in the western side of GMD, where practical, to lessen impacts to the multi-purpose pathway and adjacent utilities throughout Phase Two.

Handling/staging of FPL Materials for Phase One and Two continues for the electrical undergrounding construction. The project team is scheduling the delivery of conductor wires along with Vista switches, capacitor banks and transformers for Phase One.

Comcast has completed their re-design on two of the five phases. The Town and Comcast are in final negotiations to ensure alignment of the budget. The new design contains significant reductions in proposed infrastructure included in

Comcast's earlier plan submissions. The Town anticipates receipt of final design plans for construction, cost proposals, and FDOT Permits for Phases One and Two. The project team will continue to review final cost proposals. The Town intends to perform installation of Comcast conduit via our Design Build contract with Wilco, for construction efficiencies, and least impact to the Neighborhood residential portion of the projects.

Undergrounding Project – P3 Fiber Backbone and Provider Services

Waterleaf International, LLC, overall design tasks are 72% complete. A change order for additional time is under consideration. Additional scopes of work to be reviewed.

The following reflects associated task status:

- RF Studies substantially complete. Awaiting final deliverable.
- Street Light photometrics, layout and pole spacing substantially complete. Awaiting final deliverable.
- Fiber-optic distribution design forthcoming. Awaiting final deliverable.
- Street light pole and fixture product submittal sheets for GMD and Neighborhoods to be submitted by Waterleaf.
- Town has selected aluminum poles as preferred material due to minimal outside diameter, lower maintenance, and preferred aesthetic.
- Cylindrical or tapered poles will be considered.
- FDOT confirmed breakaway poles on concrete bases within FDOT right-of-way clear zone will be required. GMD is a 45-mph urban collector.
- FDOT permits to be secured.

In addition, staff will be presenting neighborhood street light style options for consideration. These primarily involve arm and fixture styles. Commission feedback will be requested to help narrow down and select a neighborhood street lighting style combination.

Magellan Advisors continues to assist the Town with negotiating terms of the prospective partnership agreements. The Town has met with the prospective partners at two P3 workshops, held in July and September 2019. Agreement revisions are required.

Budget, Schedule and Other Items of Interest

FPL Phase One and Two receipt of materials at site staging area continues.

The Town is in receipt of FPL's Phase Three preliminary design. The project team anticipates receipt of the Binding Cost Estimate and final design documents within the next month.

- CDM Smith - Overall Budget Monitoring
 - Continue utilizing Phase One and Two estimates from FPL, Frontier, and Comcast. In budget negotiations with Wilco Electrical, LLC the current submitted costs for remaining phases are favorable.
 - Street Lighting Budget for GMD - Town staff and Waterleaf continue development of GMD lighting per the FDOT Justification Study and additional locations identified by Commissioners.
- CDM Smith - Schedule

- The Town expects adjustments to the Master Schedule once P3 agreements are finalized and co-funding options are established.

Next Steps

Finalize remaining pole, fiber and antennae designs with Waterleaf. The Town also intends to bring final P3 Agreements to the Commission for consideration and formal action. Staff is in process of developing an Ordinance amending Town Code requirements as it relates to heights, pole design, and aesthetic standards to facilitate Town-wide technology deployment.

The Ordinance will be brought to the September 17, 2019 Planning & Zoning Board Meeting for initial review and consideration. Staff is prepared to discuss the results at this meeting.

Staff Recommendation

None, informational only.

Attachments

PowerPoint Presentation



Underground Update

Town Commission Regular Workshop
September 23, 2019



Agenda

- Underground Construction Update
- P3 Fiber Backbone and Provider Services
- Budget and Schedule Update
- Next Steps



Undergrounding Schedule/Milestones

First 3 Work Assignments for Wilco Electrical, LLC in progress:

1. Staging/Managing FPL Materials
 - Scheduling receipt of Phase 1 conductors and switches/capacitors/transformers
2. FPL Undergrounding for Phase 1
 - 100% of Conduits placed in GMD RoW
3. FPL Undergrounding for Phase 2
 - 100% of GMD Feeder and Primary Conduits placed in Broadway RoW, work progresses south on GMD



Undergrounding Schedule/Milestones, cont.

Frontier will complete operations in Phase 1 in September/October 2019

Comcast's facilities will be installed concurrently with the fiber installation

- Re-design on two of five phases is complete
- Receipt of Phase 1 and 2 designs as well as FDOT permits in progress
- Final cost proposals under review

Future Wilco work assignments will take in consideration the street lighting and fiber components for completion of the P3 design



Upcoming Milestones

- Delivery of FPL Phase 1 & 2 Materials Ongoing
- Frontier Complete Phase 1 Construction September 2019
- Wilco Complete Phase 1 GMD September 2019
- Public Information Updates Ongoing
- P3 Agreements
(Commission Approval) November 2019
- Finalize Smart Street Light Poles
and develop Code updates Sept./Oct. 2019



P3 Fiber Backbone and Provider Services

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- FDOT permits to be secured.



P3 Fiber Backbone and Provider Services, cont.

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Agreement revisions are underway.



Budget and Schedule Update

Presented by CDM Smith



Waterleaf Pole Examples

Source provided by Waterleaf International, LLC



Next Steps

- Final pole design by manufacturers
- Finalize fiber-optic network design
- Continue to revise agreements until ready for Town Commission consideration and formal action
- Town Code revisions to Personal Wireless Facilities to September 17, 2019 P&Z Board Meeting. Bring to Town Commission in October.

THANK YOU!

End of Agenda Item