

# Memo

**To:** Underground Utilities Task Force (UTF) Board Members  
**From:** Steven Stern, Underground Utilities Project Manager  
**CC:** Thomas G. Bradford, Town Manager; Jay Boodheshwar, Deputy Town Manager; H. Paul Brazil, P.E., Director of Public Works; Jane Struder, Director of Finance; Patricia Strayer, P.E., Town Engineer; Kevin Schanen, P.E., Kimley-Horn; Rick Asnani, Cornerstone Solutions, Jonathan Cooper, Cornerstone Solutions  
**Date:** 07/28/2017  
**Re:** UTF Agenda Items for the August 1, 2017 UTF Meeting

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This memorandum and its attachments serve as the written backup material associated with the agenda for your UTF meeting on August 1. It follows the order of the items appearing on the UTF agenda for the meeting.

The substantive items on this agenda are as follows:

## V. MINUTES

The minutes for the July 6, 2017 UTF meeting (**See Page 5**) are ready for your review and approval. If you find there is an error or omission, please feel free to ask for a correction at the meeting. Your requests will be noted in the minutes of this meeting and staff will make the requested changes to the proposed minutes.

## VI. TOWNWIDE UNDERGROUND PROJECT STATUS REPORTING

### A. Review of Project Dashboard, a Synopsis of Project Status *Jane Struder, Director of Finance*

Ms. Struder's dashboard summarizing project status is attached (**See Page 11**).

**B. Whiting-Turner Contracting Company; Phase 1 South Presentation**

Mr. Frank Zaremba, Senior Project Manager with Whiting-Turner will provide you with the PowerPoint presentation provided to the residents located in Phase 1 South. (See page 31 )

**C. Burkhardt Construction, Inc.; Phase 1 North Presentation**

Marc Kleisley, Project Principal with Burkhardt Construction will provide you with a PowerPoint presentation that is representative of the presentation boards used to inform the residents of Phase 1 North of the project elements. ( See page 52)

**D. Announcement of Phase 1 Construction Ground Breaking Ceremonies**

Steven Stern, Underground Utilities Project Manager ( See page 67)

**E. Kimley-Horn Monthly Status Report**

Mr. Schanen's monthly status report on behalf of Kimley- Horn has been provided. (See page 68 )

**VII. OPTIONS FOR PHASE 2 CONSTRUCTION SCHEDULE TO AVOID IN SEASON CONSTRUCTION**

Mr. Schanen has prepared a number of options to address concerns about schedule expressed last month by Task Force members. Three of the options Kevin prepared are provided to you for your consideration. (See page 74 )

**VIII. COMMUNICATIONS UPDATE FOR TOWNWIDE UNDERGROUND PROJECT**

Mr. Asnani has provided a PowerPoint of the communications work done of late to facilitate the townwide underground project. (See page 80).



**MINUTES OF THE UNDERGROUND UTILITIES TASK FORCE MEETING  
HELD ON THURSDAY, JULY 06, 2017**

**I. CALL TO ORDER AND ROLL CALL**

The Underground Utilities Task Force Meeting was called to order on Thursday, July 06, 2017, at 9:00 a.m., in the Town Council Chambers. On roll call, all members were found to be present.

**II. PLEDGE OF ALLEGIANCE**

Chair Smith led the Pledge of Allegiance.

**III. APPROVAL OF AGENDA**

**Motion was made by Task Member Bottorff, and seconded by Task Member Gulbrandsen to approve the Agenda. On call for a vote, the motion passed unanimously.**

**IV. COMMUNICATIONS FROM CITIZENS (For Matters Not on the Agenda; 3 Minute Limit, Please)**

There were none.

**V. MINUTES**

**A. UUTF Meeting Minutes of June 9, 2017**

**Motion was made by Task Force Member Bottorff, and seconded by Task Force Member Wolin, to approve the minutes. On call for a vote, the motion passed unanimously.**

**VI. TOWNWIDE UNDERGROUND PROJECT STATUS REPORT**

**A. Review of Project Dashboard, a Synopsis of Project Status**  
*Jane Struder, Director of Finance*

Town Manager Bradford introduced the new Underground Utilities Project Manager, Steven Stern.

Chair Smith introduced new Task Force Member, Nicki McDonald.

Finance Director Struder provided a brief overview of the Underground Utility Project Dashboard for June 2017. She stated that next month, the Project Dashboard will be updated to include an overview of Phase 1 Construction and Phase 2 Design.

**B. Kimley-Horn Monthly Status Report Including Updates on Cost Saving Efforts with FPL/Legacy Telecoms and the Broadband RFI Status**

*Kevin Schanen, P.E., Kimley-Horn*

i. Legacy Telecom cost saving measures

Kevin Schanen, Kimley-Horn, provided an overview of recent cost reduction meetings with AT&T and Comcast. Mr. Schanen took a moment to recognize Mayor Coniglio for her instrumental efforts in working with Kimley-Horn during the meetings with Comcast and AT&T, to assist with helping to reduce program costs.

ii. Broadband RFI Update

Kevin Schanen, Kimley-Horn, provided information on the Monthly Status Report and explained the results of recent meetings with Fiber Net who provides services to government municipalities and commercial entities exclusively.

Discussion ensued regarding options for a fourth conduit install and the Town's commitment, construction delay concerns stemming from the addition of the fourth conduit, Broadband Fiber availability to the premises vs. backbone only, Request for Information (RFI) respondents for Broadband Services, 5G deployment, timeline and fiber pipe installation, and the types of services available to property owners. Town Manager Bradford spoke regarding options to lease the conduit and/or the fiber, the possibility of the town providing services to the property owners and the two Broadband options scheduled to be presented at the July Town Council Meeting along with financing.

Task Force Member Gulbrandsen asked for an overview of the respondents for Broadband RFI. Mr. Schanen responded with an overview of the RFI respondents, FiberNet, ITS and AT&T.

Task Force Member Gary asked for ballpark cost estimates for the fourth conduit install. Town Manager Bradford responded with ballpark rough order of magnitude cost estimate numbers of \$3.8 M for backbone only and \$11.1M to every parcel in town. He stated that these numbers include installation and conduit without fiber, a 20% contingency, a 10% contingency relative to the length of pipe and 3% inflation over the lifetime of the project.

Project Manager Stern briefly spoke about the necessity of infrastructure before investing in the deployment of new service.

Director of Public Works, Paul Brazil, stated he believes the conduit installed to every home may not be fully utilized, but a backbone install would be a good long-range idea and, if FiberNet develops a business plan, the town should entertain install of the backbone.

iii. Phase 1 Monthly Update

Mr. Schanen provided an update on the Construction Design for Phase 1, progress updates, construction contracts approved, construction document finalization, pre-construction and mobilization, community information meetings, and easement acquisition for the North-end and South-end.

Discussion ensued regarding easement acquisition, easement contracts and language, easement owner negotiations, voluntary/donated easements (4 have been donated to date), equipment placement, transformer right-of-way install, North-end easement dialogue with residents, easement acquisition process and concerns, and Phase 1 vs. Phase 2 easement strategies and settlements.

iv. Phase 1 N&S Construction Schedule overview

Mr. Schanen provided an overview of the Construction Schedule for Phase 1 North and South.

Discussion ensued regarding condo association easement acquisition status, conduit install goals, Phase 1 South timeline July 2017- March 2019, paving/milling/restoration on North Ocean Blvd and North Lake Way, Town Engineers involvement with addressing resident complaints regarding construction paving and milling of the North-end, paving weather delays, and Cornerstone Communications involvement regarding communicating North-end traffic impacts and weather delays.

Richard Kleid, Beach Point Condominiums, spoke regarding concerns over easement acquisitions in the South-end and explained that condominium associations follow a process of hosting meetings with the Board of Directors to conduct a formal vote with an opportunity for residents to speak prior to the board voting and signing the final easement agreement. Mr. Kleid expressed concern that the condominium Board of Directors will not be available until November and additional costs might be incurred if acquisitions are denied so late into the Phase. Mr. Schanen stated any acquisitions denied would be handled with equipment being moved into the right-of-way.

v. Phase 2 Monthly Update

Mr. Schanen provided an overview of Phase 2 Design North (Onondaga to Osceola) and Phase 2 South (Sloan's Curve to South County Road).

Discussion ensued regarding FP&L subcontracting, Burkhardt construction planning, and Construction Design progress meetings.

vi. Phase 2 Design Draft Schedule review

Mr. Schanen provided a review of Phase 2 Design Draft Schedule.

Discussion ensued regarding progress updates, survey work, site visits, meter reviews, data collection with existing utilities, progress/coordination meetings, Phase 2 design schedule timeline for July 2017 through 2018, Construction Manager Value Engineering, easement acquisition process, CMAR bidding, subcontractor bids and estimates, large contractors vs. small contractor bids, town management bid process.

Chair Smith stated his concerns with the Design Schedule of Phase 2 construction starting September 1, 2018, during presidential visits, season and holidays. Mr. Schanen and Town Engineer Strayer requested a month to gather options on the redesign of Phase 2 with the possibility of moving the construction phase up to May 2018 or combining Phase 2 and 3 in 2019 to get back on track. Task Force Member McDonald questioned the possible financial implications of combining phases.

Mr. Schanen spoke in support of project saves of \$30k by FP&L for splice box elimination, and recognized town officials, Task Force Members, town staff, utility owners and design team for working together to bring Phase 1 to construction. Task Force Member Gulbrandsen recognized Town Council for persevering through

many Phase 1 obstacles. Task Force Member Bottorff recognized Town Council President Kleid for his perseverance. Town Council President Kleid recognized each Task Force Member for their dedication, availability and commitment in addressing project challenges. Town Council Member Zeidman recognized each Task Force Member for their dedication and hard work as a blue ribbon advisory council with this project.

VII. **COMCAST REVIEW OF INFRASTRUCTURE PLAN FOR TOWNWIDE UNDERGROUND PROJECT**

Gary Kaufman, VP of Construction, Comcast, spoke regarding national deployment of Fiber Deep Architecture.

Discussion ensued regarding coaxial replacement and limitations, technology advances, networking of fiber optic, fiber to the home and bandwidths, fiber to box and box placement, Comcast internet penetration and availability in Palm Beach, fiber to the home trenching, 5G smart poles and fiber to the home, cell tower vs. smart poles, fiber supply to smart poles, and subleasing fiber.

VIII. **COMMUNICATIONS PLAN (GOALS AND OBJECTIVES) FOR TOWNWIDE UNDERGROUND PROJECT**

*Rick Asnani, Cornerstone Solutions*

Rick Asnani, Cornerstone Solutions, provided an overview of the Town-wide Underground Project Communications Plan and Outreach, June Summary of Phase 1 emails and communications, website updates and FAQ's, community meetings and schedules, social media medium's, project communication plans, Phase 2 Scope and Cornerstone Communications Objectives.

Discussion ensued regarding community meetings and Task Force Member attendance, social media security settings, and town hall meetings. Task Force Member Wolin expressed concern over residents who are not available to attend meetings in the summer. Task Force Member McDonald suggested dual meeting times to allow flexibility for residents to attend meetings. Mr. Asnani suggested annual town hall meetings with Task Force Members present. Town Manager Bradford stated he would check with Attorney Randolph about Sunshine Law and Task Force Member attendance at community meetings.

IX. **COMMUNICATIONS FROM CITIZENS**

Karen Butler, 389 South Lake Drive, questioned the possibility of using of existing AT&T Comcast Conduit 5G for the town, for government use and commercial use, and for North-end and South-end use and spoke regarding the tangible and intangible benefits of 5G and FiberNet.

X. **ANY OTHER MATTERS**

Task Force Member McDonald addressed the members of the Underground Utility Task Force to present the idea of moving the September and November UUTF Meeting's due to Labor Day September 4<sup>th</sup> and Election Day November 7<sup>th</sup>.

**It was the consensus of the Task Force members present to approve moving the September Underground Utilities Task Force Meeting date to Thursday, September 7, 2017.**

XI. **ADJOURNMENT**

There being no further business, the Underground Utilities Task Force Meeting of Thursday, July 06, 2017, was adjourned at 12:32 p.m.

APPROVED:

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Jeffery Smith  
Chair

ATTEST:

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Gwendolynn Peirce, CMC  
Acting Town Clerk

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Date





## **Underground Utility Task Force Monthly Progress Report July 2017**

### **Table of Contents**

#### **Dashboard – Phase 1 Construction and Phase 2 Design**

1. Kimley-Horn Progress Report Phase 1
2. Kimley Horn Progress Report Phase 2
3. Master Plan Gantt Chart
4. Phase 1 Design Gantt Chart
5. Phase 2 Design Gantt Chart Draft
6. Phase 1 North Construction Schedule
7. Phase 1 South Construction Schedule
8. Budget Report
9. Interest Rate Forecast as of July 21, 2017

The following reports will be provided when applicable in future reporting:

- Easement Acquisition Report
- Communication Report
- Construction Updates and Status Report

#### **Dashboard Notes:**

- Overall Budget represents the percentage encumbered to date versus the total project budget of \$90 million.
- Amounts on dashboard are percentages of total budget and design completed related to master planning, north and south end design.
- We will be making additional changes in future dashboards to reflect a new section with monthly highlights, including UUTF and Town Council decisions affecting the project, and other format changes.

Prepared by the Finance Department  
June 30, 2017



## **Town-Wide Undergrounding Master Planning and Phase 1 Design Project Progress Report**

**Period: June 22, 2017 to July 24, 2017**

### **I. Scope Update**

#### **A. General**

- **Schedule:** Project schedule progress is shown below.
  - Master Planning is 99% complete
  - North End Design is 98% complete
  - South End Design is 95% complete
- **Budget:** Project is on budget as of July 15, 2017
  - Master Planning is at 99% of total task budget
  - North End Design is at 95% of total task budget
  - South End Design at 95% of total task budget
- **Easement Status**
  - Phase 1: 89% of easements approved

#### **B. Master Planning Phase**

- Responded to questions related to the Future Fiber Optic Communications Alternatives as well as associated opinions of costs for two alternatives.
- Meeting held with Comcast to further the discussion of overall program cost refinement for the Comcast elements.
- Meeting held with AT&T to further the discussion of overall program cost refinement for the AT&T elements.

#### **C. Detailed Design Phase**

- Subconsultant/utility owner coordination towards issuance of the Construction Sets.
- Coordination with Town Attorney, Brannon & Gillespie, Waypoint Engineering, and FPL related to the easement acquisition process.
- Field meetings with residents to discuss easement needs and development of revised exhibits. Coordination with surveyor to develop legal sketches and descriptions for agreed upon easements.
- Progress towards development of the FDOT Landscaping Permit Application and individual landscaping site plans. Preparation of Landscape Plans and Planting Exhibits.
- Numerous field meetings and follow up coordination with residents, businesses, and condominiums to discuss easement requests were performed. Coordination with surveyor to develop legal sketches and descriptions for agreed upon easements.
- Progress meetings occurred to coordinate various elements of the project.

II. Upcoming Activities (July 25, 2017 – August 24, 2017)

A. Master Planning Phase

- Presentation of the Master Plan to Town Council.

B. Detailed Design Phase

- The easement acquisition process will continue through the Town Attorney's office including field meetings with affected residents, businesses, and condominiums.
- Submittal of the FDOT Landscape permit for Phase 2 South

III. Saves and Raves

A. *Saves*: The granting of voluntary easements has eliminated the need for three watermain deflections

B. *Raves*: We would like to thank the community for coming to our public outreach meetings held for Phases 1 North and South. We had a great turn out and we were able to answer a lot of great questions.



**Town-Wide Undergrounding - Phase 2 Design  
July 2017 Progress Report  
Period: June 23, 2017 to July 24, 2017**

**I. Scope Update**

**A. General**

- Schedule: Project schedule progress is shown below.
  - Phase 2 North Design is 6% complete
  - Phase 2 South Design is 6% complete
- Budget: Project is on budget as of July 15, 2017
  - Phase 2 North Design is at 1% of total task budget
  - Phase 2 South Design at 1% of total task budget
- Easement Status
  - Phase 2: N/A, will provide status when this work begins

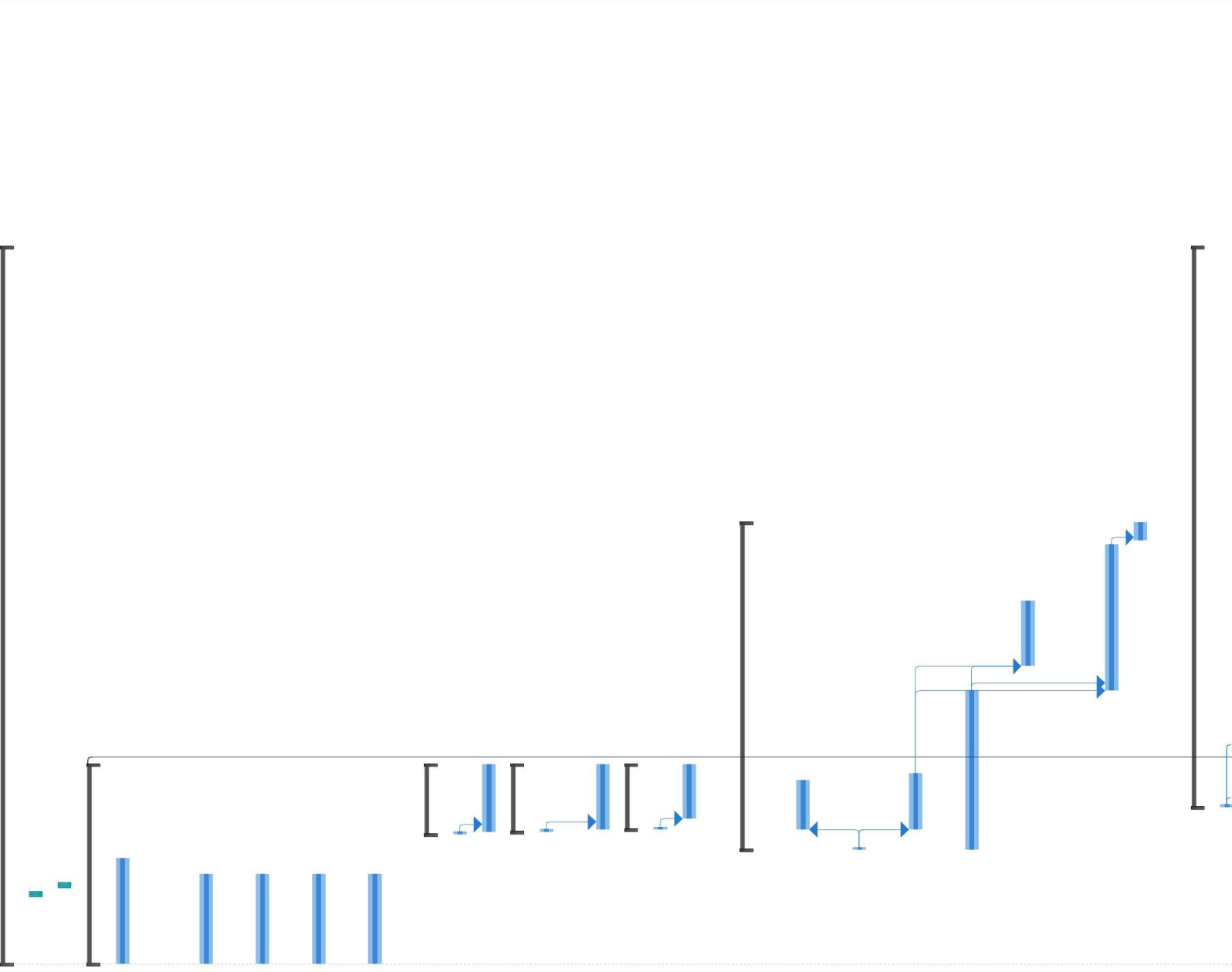
**B. Detailed Design Phase**

- Subconsultant/utility owner coordination to initiate Phase 2 Design.
- Design Schedule development, presentation, and coordination with utility owners for schedule acceptance.
- Initiation and field progress of right of way/topographical survey.
- Coordination with Cornerstone to develop meter review postcard notifications for Phase 2 areas.
- Public Record research to identify existing easements in Phase 2 areas.
- Coordination with geotechnical engineer to initiate soils survey.
- Field work for Meter and communications service entrance reviews underway.
- Conducted and attended design kick-off meeting with subconsultants.

**II. Upcoming Activities (July 25, 2017 – August 24, 2017)**

**A. Detailed Design Phase**

- Subconsultant/utility owner coordination related to Phase 2 Design.
- Continued progress of right of way/topographical survey.
- Continued Public Record research to identify existing easements in Phase 2 areas.
- Coordination with geotechnical engineer for soils survey.
- Field work for Meter and communications service entrance reviews to be completed.
- Conduct and attend design progress meeting.
- Coordination with existing utility owners to collect record drawings and data in the phase 2 design areas.

| ID | Task Mode                                                                           | Task Name                                                                                                                 | Duration         | Start              | Finish              | % Complete  |                                                                                     |
|----|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------|--------------------|---------------------|-------------|-------------------------------------------------------------------------------------|
| 1  |  | <b>Master Planning</b>                                                                                                    | <b>230 days?</b> | <b>Mon 5/16/16</b> | <b>Fri 3/31/17</b>  | <b>99%</b>  |  |
| 2  |  | <b>External Project Kick off Meeting</b>                                                                                  | 1 day            | Thu 6/16/16        | Thu 6/16/16         | 100%        |                                                                                     |
| 3  |  | <b>Internal Project Kick off Meeting</b>                                                                                  | 1 day            | Mon 6/20/16        | Mon 6/20/16         | 100%        |                                                                                     |
| 4  |  | <b>Task 1.1.1 - Data Collection</b>                                                                                       | <b>65 days?</b>  | <b>Mon 5/16/16</b> | <b>Fri 8/12/16</b>  | <b>100%</b> |                                                                                     |
| 5  |  | Collect/Analyze Town Project Data- ACIP Program Information (roads, drainage, street lights, other planned ACIP projects) | 35 days          | Mon 5/16/16        | Fri 7/1/16          | 100%        |                                                                                     |
| 6  |  | Collect/Analyze City Data - Watermain program information                                                                 | 30 days          | Mon 5/16/16        | Fri 6/24/16         | 100%        |                                                                                     |
| 7  |  | Collect/Analyze Lake Worth and South Palm Beach data at project limits                                                    | 30 days          | Mon 5/16/16        | Fri 6/24/16         | 100%        |                                                                                     |
| 8  |  | Collect/Analyze FPU - gas main replacement program                                                                        | 30 days          | Mon 5/16/16        | Fri 6/24/16         | 100%        |                                                                                     |
| 9  |  | Collect/ Analyze - FDOT records and proposed projects in Town limits                                                      | 30 days          | Mon 5/16/16        | Fri 6/24/16         | 100%        |                                                                                     |
| 10 |  | <b>Collect/Analyze FPL</b>                                                                                                | <b>23 days?</b>  | <b>Wed 7/13/16</b> | <b>Fri 8/12/16</b>  | <b>100%</b> |                                                                                     |
| 11 |  | Office Meeting/Record Review with FPL                                                                                     | 1 day?           | Wed 7/13/16        | Wed 7/13/16         | 100%        |                                                                                     |
| 12 |  | Field Verification of Major Utility Elements                                                                              | 22 days          | Thu 7/14/16        | Fri 8/12/16         | 100%        |                                                                                     |
| 13 |  | <b>Collect/Analyze ATT</b>                                                                                                | <b>22 days?</b>  | <b>Thu 7/14/16</b> | <b>Fri 8/12/16</b>  | <b>100%</b> |                                                                                     |
| 14 |  | Office Meeting/Record Review with ATT (infrastructure / Smart Poles)                                                      | 1 day?           | Thu 7/14/16        | Thu 7/14/16         | 100%        |                                                                                     |
| 15 |  | Field Verification of Major Utility Elements                                                                              | 21 days          | Fri 7/15/16        | Fri 8/12/16         | 100%        |                                                                                     |
| 16 |  | <b>Collect/Analyze Comcast</b>                                                                                            | <b>21 days</b>   | <b>Fri 7/15/16</b> | <b>Fri 8/12/16</b>  | <b>100%</b> |                                                                                     |
| 17 |  | Office Meeting/Record Review with Comcast                                                                                 | 1 day            | Fri 7/15/16        | Fri 7/15/16         | 100%        |                                                                                     |
| 18 |  | Field Verification of Major Utility Elements                                                                              | 18 days          | Wed 7/20/16        | Fri 8/12/16         | 100%        |                                                                                     |
| 19 |  |                                                                                                                           |                  |                    |                     |             |                                                                                     |
| 20 |  | <b>Task 1.1.2 - Data Collection-Future Communications Systems</b>                                                         | <b>104 days</b>  | <b>Wed 7/6/16</b>  | <b>Mon 11/28/16</b> | <b>100%</b> |                                                                                     |
| 21 |  | Collect/Analyze - TOPB Police and Fire Dept private lines                                                                 | 16 days          | Fri 7/15/16        | Fri 8/5/16          | 100%        |                                                                                     |
| 22 |  | Meeting with Town Public Works staff, Fire Department Staff, and Police Staff                                             | 1 day            | Wed 7/6/16         | Wed 7/6/16          | 100%        |                                                                                     |
| 23 |  | Analysis of Town-wide Closed communications system expansion (police/fire/public works)                                   | 17 days          | Fri 7/15/16        | Mon 8/8/16          | 100%        |                                                                                     |
| 24 |  | Analysis of Town-wide Closed Circuit communications system                                                                | 51 days          | Wed 7/6/16         | Wed 9/14/16         | 100%        |                                                                                     |
| 25 |  | Develop recommendations/conceptual order of magnitude OPC (Town Future Communications only)                               | 21 days          | Mon 9/26/16        | Mon 10/24/16        | 100%        |                                                                                     |
| 26 |  | Draft and Issue summary memorandum                                                                                        | 47 days          | Thu 9/15/16        | Fri 11/18/16        | 100%        |                                                                                     |
| 27 |  | Review recommendations with Town                                                                                          | 6 days           | Mon 11/21/16       | Mon 11/28/16        | 100%        |                                                                                     |
| 28 |  |                                                                                                                           |                  |                    |                     | 0%          |                                                                                     |
| 29 |  | <b>Broadband Infrastructure Assessment</b>                                                                                | <b>180 days?</b> | <b>Mon 7/25/16</b> | <b>Fri 3/31/17</b>  | <b>100%</b> |                                                                                     |
| 30 |  | Kickoff meeting                                                                                                           | 1 day            | Mon 7/25/16        | Mon 7/25/16         | 100%        |                                                                                     |



| ID | Task Mode | Task Name                                                                                       | Duration       | Start              | Finish              | % Complete  |
|----|-----------|-------------------------------------------------------------------------------------------------|----------------|--------------------|---------------------|-------------|
| 31 |           | Community Needs & Stakeholder Outreach                                                          | 65 days        | Tue 7/26/16        | Mon 10/24/16        | 100%        |
| 32 |           | Broadband Market Analysis                                                                       | 44 days        | Tue 7/26/16        | Fri 9/23/16         | 100%        |
| 33 |           | Broadband Issue Analysis                                                                        | 21 days        | Mon 9/26/16        | Mon 10/24/16        | 100%        |
| 34 |           | FTTP Data Collection & Benchmarking                                                             | 46 days        | Mon 8/22/16        | Mon 10/24/16        | 100%        |
| 35 |           | FTTP Technical Design Options                                                                   | 46 days        | Mon 8/22/16        | Mon 10/24/16        | 100%        |
| 36 |           | FTTP Business Case Analysis                                                                     | 46 days        | Mon 8/22/16        | Mon 10/24/16        | 100%        |
| 37 |           | FTTP Financial Evaluation                                                                       | 46 days        | Mon 9/26/16        | Mon 11/28/16        | 100%        |
| 38 |           | FTTP Roadmap and Business Plan                                                                  | 25 days        | Tue 10/25/16       | Mon 11/28/16        | 100%        |
| 39 |           | Final Presentation and Deliverables                                                             | 25 days        | Tue 10/25/16       | Mon 11/28/16        | 100%        |
| 40 |           | UUTF Presentation                                                                               | 1 day          | Tue 12/6/16        | Tue 12/6/16         | 100%        |
| 41 |           | RFI Development                                                                                 | 21 days        | Fri 1/6/17         | Fri 2/3/17          | 100%        |
| 42 |           | RFI Distribution and Advertisement                                                              | 21 days?       | Mon 2/6/17         | Mon 3/6/17          | 100%        |
| 43 |           | Review RFI Responses and Provide Recommendations                                                | 19 days?       | Tue 3/7/17         | Fri 3/31/17         | 100%        |
| 44 |           |                                                                                                 |                |                    |                     |             |
| 45 |           | <b>Task 1.1.3 - GIS Base Map Development - Existing Infrastructure</b>                          | <b>61 days</b> | <b>Mon 5/16/16</b> | <b>Mon 8/8/16</b>   | <b>100%</b> |
| 46 |           | GIS Map Development Town Project Data- ACIP Program Information                                 | 45 days        | Mon 5/16/16        | Fri 7/15/16         | 100%        |
| 47 |           | GIS Map Development - Watermain program information                                             | 45 days        | Mon 5/16/16        | Fri 7/15/16         | 100%        |
| 48 |           | GIS Map Development FPU - gas main replacement program                                          | 45 days        | Mon 5/16/16        | Fri 7/15/16         | 100%        |
| 49 |           | GIS Map Development - TOPB Police and Fire private lines                                        | 17 days        | Fri 7/15/16        | Mon 8/8/16          | 100%        |
| 50 |           | GIS Map Development - FDOT records and proposed projects in Town limits                         | 45 days        | Mon 5/16/16        | Fri 7/15/16         | 100%        |
| 51 |           |                                                                                                 |                |                    |                     |             |
| 52 |           | <b>Task 1.2 - Concept Design/Master Plan</b>                                                    | <b>99 days</b> | <b>Fri 7/15/16</b> | <b>Wed 11/30/16</b> | <b>100%</b> |
| 53 |           | Master Plan Design Layout/Workshop - FPL Infrastructure -GIS Maps                               | 78 days        | Mon 8/15/16        | Wed 11/30/16        | 100%        |
| 54 |           | Master Plan Design Layout/Workshop - ATT Infrastructure - GIS Maps                              | 59 days        | Mon 8/15/16        | Thu 11/3/16         | 100%        |
| 55 |           | Master Plan Design Layout/Workshop - Comcast Infrastructure - GIS Maps                          | 70 days        | Mon 8/15/16        | Fri 11/18/16        | 100%        |
| 56 |           | Master Plan Design Layout - Street lights - GIS Area Map                                        | 55 days        | Mon 7/18/16        | Fri 9/30/16         | 100%        |
| 57 |           | Master Plan Design Layout - CC fiber link and Competitor Communications - GIS Map               | 17 days        | Fri 7/15/16        | Mon 8/8/16          | 100%        |
| 58 |           | Major easement Identification, field verification                                               | 47 days        | Thu 9/1/16         | Fri 11/4/16         | 100%        |
| 59 |           |                                                                                                 |                |                    |                     | 0%          |
| 60 |           | <b>Task 1.2.3 - Phase Selection and Development</b>                                             | <b>45 days</b> | <b>Mon 8/8/16</b>  | <b>Fri 10/7/16</b>  | <b>100%</b> |
| 61 |           | Phase Selection and Development / GIS Map Development of Phasing Limits (first half of project) | 45 days        | Mon 8/8/16         | Fri 10/7/16         | 100%        |

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| ID |  | Task Mode | Task Name                                                                                                                        | Duration        | Start              | Finish              | % Complete  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----|--|-----------|----------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------|---------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 62 |  |           |                                                                                                                                  |                 |                    |                     |             | <div> <div>10</div> <div>25</div> <div>6</div> <div>17</div> <div>28</div> <div>8</div> <div>19</div> <div>30</div> <div>11</div> <div>22</div> <div>2</div> <div>13</div> <div>24</div> <div>4</div> <div>15</div> <div>26</div> <div>7</div> <div>18</div> <div>29</div> <div>9</div> <div>20</div> <div>1</div> <div>12</div> <div>23</div> <div>3</div> <div>14</div> <div>25</div> <div>5</div> <div>16</div> <div>27</div> <div>10</div> <div>21</div> <div>1</div> <div>12</div> <div>23</div> <div>4</div> <div>15</div> <div>26</div> <div>6</div> <div>17</div> <div>28</div> <div>9</div> <div>20</div> <div>3</div> </div> |
| 63 |  |           | <b>Task 1.2.4 - Engineers Opinion of Probable Construction Cost</b>                                                              | <b>63 days</b>  | <b>Mon 9/5/16</b>  | <b>Wed 11/30/16</b> | <b>100%</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 64 |  |           | Development of Overall OPC and year-by-year cost projection                                                                      | 63 days         | Mon 9/5/16         | Wed 11/30/16        | 100%        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 65 |  |           |                                                                                                                                  |                 |                    |                     |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 66 |  |           | <b>Task 1.3 - Project Sequencing and Phasing</b>                                                                                 | <b>125 days</b> | <b>Mon 5/16/16</b> | <b>Fri 11/4/16</b>  | <b>100%</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 67 |  |           | Task 1.3.1 - Schedule Collection - Outside Projects (ACIP, City, Town, FPU, FDOT, etc.)                                          | 35 days         | Mon 5/16/16        | Fri 7/1/16          | 100%        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 68 |  |           | Task 1.3.2 - Master Schedule Development                                                                                         | 60 days         | Mon 8/15/16        | Fri 11/4/16         | 100%        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 69 |  |           |                                                                                                                                  |                 |                    |                     |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 70 |  |           | <b>Task 1.4 - Assessment of Traffic Impacts</b>                                                                                  | <b>78 days</b>  | <b>Mon 8/15/16</b> | <b>Wed 11/30/16</b> | <b>100%</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 71 |  |           | Develop Traffic Control Notes/Overall Plan                                                                                       | 35 days         | Mon 8/15/16        | Fri 9/30/16         | 100%        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 72 |  |           | Develop General Project Zones                                                                                                    | 32 days         | Thu 9/1/16         | Fri 10/14/16        | 100%        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 73 |  |           | Develop GIS Map for MOT Plan                                                                                                     | 43 days         | Mon 10/3/16        | Wed 11/30/16        | 100%        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 74 |  |           |                                                                                                                                  |                 |                    |                     |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 75 |  |           | <b>Task 1.5 - Project Delivery Methods</b>                                                                                       | <b>45 days?</b> | <b>Wed 8/17/16</b> | <b>Tue 10/18/16</b> | <b>100%</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 76 |  |           | Meeting with Town to review delivery method criteria                                                                             | 1 day           | Wed 8/17/16        | Wed 8/17/16         | 100%        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 77 |  |           | Develop general selection criteria based on project phase complexity, phasing, etc.                                              | 26 days         | Fri 8/19/16        | Fri 9/23/16         | 100%        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 78 |  |           | Develop delivery method recommendations for each Phase of Project                                                                | 15 days?        | Mon 9/26/16        | Fri 10/14/16        | 100%        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 79 |  |           | Review recommendations with Town                                                                                                 | 1 day           | Tue 10/18/16       | Tue 10/18/16        | 100%        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 80 |  |           |                                                                                                                                  |                 |                    |                     |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 81 |  |           | <b>Task 1.6 - Master Plan Document</b>                                                                                           | <b>90 days</b>  | <b>Mon 9/5/16</b>  | <b>Fri 1/6/17</b>   | <b>98%</b>  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 82 |  |           | Develop master plan document to describe process undertaken, present design criteria, public vetting process and recommendations | 74 days         | Mon 9/5/16         | Thu 12/15/16        | 98%         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 83 |  |           | Submit to Town Staff                                                                                                             | 1 day           | Fri 12/16/16       | Fri 12/16/16        | 100%        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 84 |  |           | Town Staff Review                                                                                                                | 15 days         | Mon 12/19/16       | Fri 1/6/17          | 100%        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 85 |  |           |                                                                                                                                  |                 |                    |                     |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 86 |  |           | <b>Refine Master Plan based on Town Comments</b>                                                                                 | 60 days         | Mon 1/9/17         | Fri 3/31/17         | 100%        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 87 |  |           | <b>UUTF Meeting to Present MP</b>                                                                                                | 1 day?          | Tue 4/4/17         | Tue 4/4/17          | 100%        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 88 |  |           | <b>Town Council Meeting to Present MP</b>                                                                                        | 1 day?          | Tue 7/11/17        | Tue 7/11/17         | 0%          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

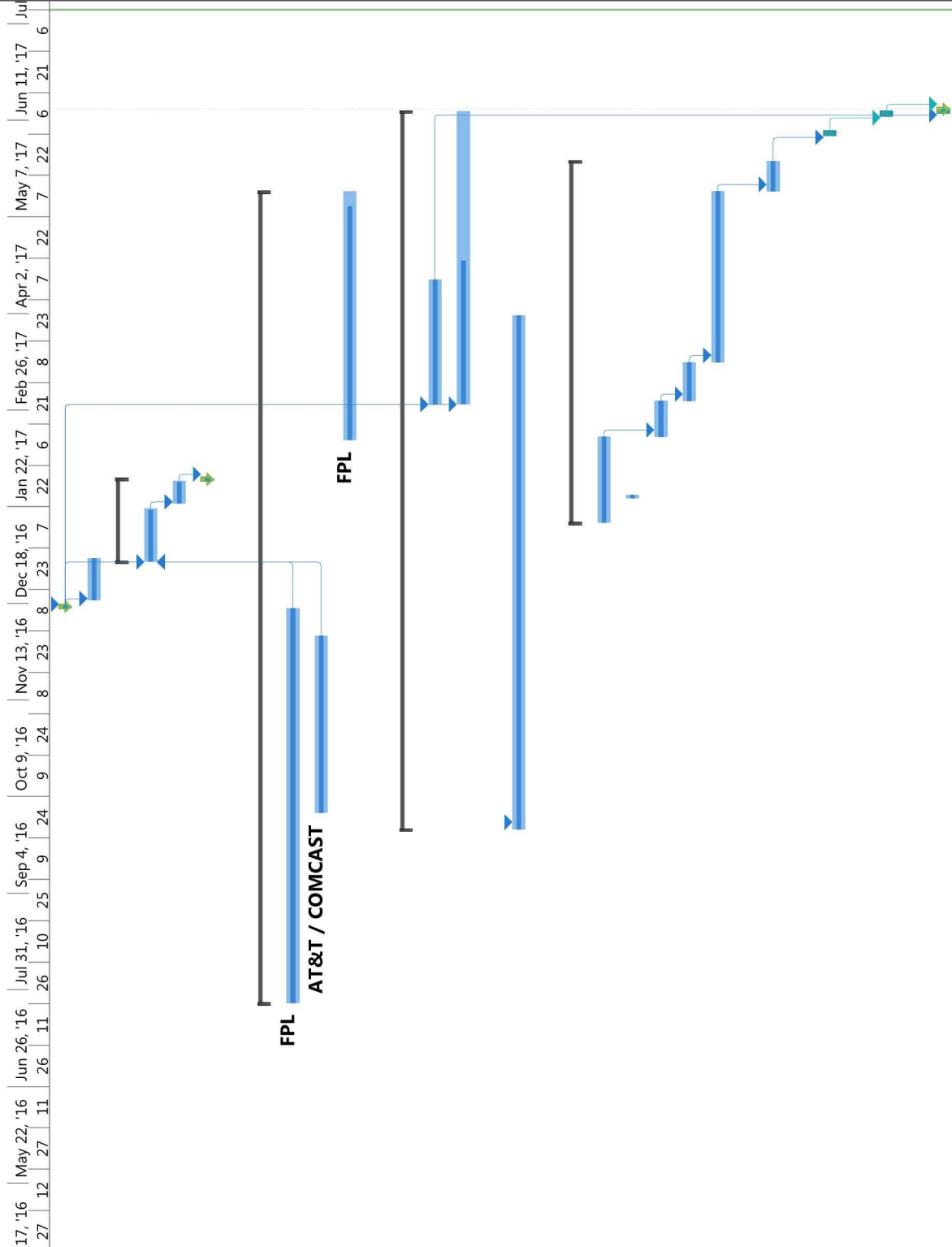


| ID | Task Mode | Task Name                                                                 | Duration         | Start              | Finish              | % Complete  |
|----|-----------|---------------------------------------------------------------------------|------------------|--------------------|---------------------|-------------|
| 1  |           | <b>Task 2.1 - Detailed Design North End (Phase 1)</b>                     | <b>250 days?</b> | <b>Mon 5/16/16</b> | <b>Fri 4/28/17</b>  | <b>98%</b>  |
| 2  |           | <b>Internal Project Kick off Meeting</b>                                  | 1 day            | Thu 6/16/16        | Thu 6/16/16         | 100%        |
| 3  |           | <b>External Project Kick off Meeting</b>                                  | 1 day            | Mon 6/20/16        | Mon 6/20/16         | 100%        |
| 4  |           | <b>Data Collection</b>                                                    | <b>138 days?</b> | <b>Mon 5/16/16</b> | <b>Wed 11/23/16</b> | <b>100%</b> |
| 5  |           | Sunshine One-Call Utility coordination and letter request for record data | 12 days          | Mon 5/16/16        | Tue 5/31/16         | 100%        |
| 6  |           | Collect/Analyze record information                                        | 46 days          | Mon 5/16/16        | Mon 7/18/16         | 100%        |
| 7  |           | Site Survey                                                               | 44 days          | Wed 5/18/16        | Mon 7/18/16         | 100%        |
| 8  |           | Geotechnical Investigation                                                | 34 days          | Wed 6/1/16         | Mon 7/18/16         | 100%        |
| 9  |           | GPR Utility Corridor Mapping                                              | 5 days?          | Mon 8/1/16         | Fri 8/5/16          | 100%        |
| 10 |           | Soft Dig Utility Locates                                                  | 37 days?         | Tue 10/4/16        | Wed 11/23/16        | 100%        |
| 11 |           | Site Visit to Determine meter locations                                   | 9 days           | Mon 6/27/16        | Fri 7/8/16          | 100%        |
| 12 |           | <b>Utility Coordination</b>                                               | <b>100 days?</b> | <b>Mon 7/25/16</b> | <b>Fri 12/9/16</b>  | <b>100%</b> |
| 13 |           | Provide Survey Files to Utility Owners                                    | 1 day?           | Mon 7/25/16        | Mon 7/25/16         | 100%        |
| 14 |           | FPL Provision of Equipment Locations                                      | 25 days?         | Mon 10/3/16        | Fri 11/4/16         | 100%        |
| 15 |           | Field Reviews with FPL                                                    | 10 days?         | Mon 10/31/16       | Fri 11/11/16        | 100%        |
| 16 |           | Field Reviews with ATT / Comcast                                          | 25 days?         | Mon 11/7/16        | Fri 12/9/16         | 100%        |
| 17 |           | <b>Easement Coordination</b>                                              | <b>190 days?</b> | <b>Mon 8/8/16</b>  | <b>Fri 4/28/17</b>  | <b>93%</b>  |
| 18 |           | Determine Easement Needs and Locations                                    | 70 days?         | Mon 8/8/16         | Fri 11/11/16        | 100%        |
| 19 |           | Send Letters to Property Owners                                           | 30 days?         | Mon 10/17/16       | Fri 11/25/16        | 100%        |
| 20 |           | Procure Easements and Follow up                                           | 135 days?        | Mon 10/24/16       | Fri 4/28/17         | 87%         |
| 21 |           |                                                                           |                  |                    |                     |             |
| 22 |           | <b>Construction Documents</b>                                             | <b>141 days?</b> | <b>Tue 7/19/16</b> | <b>Tue 1/31/17</b>  | <b>99%</b>  |
| 23 |           | <b>60% Construction Document Development</b>                              | <b>55 days?</b>  | <b>Tue 7/19/16</b> | <b>Mon 10/3/16</b>  | <b>100%</b> |
| 24 |           | 60% Construction Document Development                                     | 44 days          | Tue 7/19/16        | Fri 9/16/16         | 100%        |
| 25 |           | 60% Construction Document Internal QC                                     | 5 days?          | Mon 9/19/16        | Fri 9/23/16         | 100%        |
| 26 |           | 60% Construction Document Town Submittal                                  | 1 day?           | Mon 9/26/16        | Mon 9/26/16         | 100%        |
| 27 |           | 60% Town Review and Comment                                               | 5 days?          | Tue 9/27/16        | Mon 10/3/16         | 100%        |
| 28 |           | <b>90% Construction Document Development</b>                              | <b>65 days?</b>  | <b>Tue 10/4/16</b> | <b>Mon 1/2/17</b>   | <b>100%</b> |
| 29 |           | 90% Construction Document Development                                     | 46 days          | Tue 10/4/16        | Tue 12/6/16         | 100%        |
| 30 |           | Conductor Sizing                                                          | 22 days?         | Tue 11/1/16        | Wed 11/30/16        | 100%        |
| 31 |           | Landscaping Plans                                                         | 26 days?         | Tue 11/1/16        | Tue 12/6/16         | 100%        |
| 32 |           | Technical Specifications                                                  | 46 days?         | Tue 10/4/16        | Tue 12/6/16         | 100%        |
| 33 |           | 90% Construction Document Internal QC                                     | 6 days?          | Wed 12/7/16        | Wed 12/14/16        | 100%        |
| 34 |           | 90% Construction Document Town Submittal                                  | 1 day?           | Fri 12/16/16       | Fri 12/16/16        | 100%        |
| 35 |           | 90% Town Review and Comment                                               | 11 days?         | Mon 12/19/16       | Mon 1/2/17          | 100%        |
| 36 |           | <b>Final Construction Document Development</b>                            | <b>18 days?</b>  | <b>Fri 1/6/17</b>  | <b>Tue 1/31/17</b>  | <b>98%</b>  |
| 37 |           | Final Construction Document Development                                   | 11 days?         | Fri 1/6/17         | Fri 1/20/17         | 98%         |
| 38 |           | Final Construction Document Internal QC                                   | 6 days?          | Mon 1/23/17        | Mon 1/30/17         | 98%         |
| 39 |           | Final Construction Document Town Submittal                                | 1 day?           | Tue 1/31/17        | Tue 1/31/17         | 100%        |
| 40 |           |                                                                           |                  |                    |                     | 0%          |
| 41 |           | <b>Utility Design and BCE Development - North End</b>                     | <b>210 days?</b> | <b>Tue 7/26/16</b> | <b>Mon 5/15/17</b>  | <b>98%</b>  |
| 42 |           | FPL Design                                                                | 103 days         | Tue 7/26/16        | Thu 12/15/16        | 100%        |
| 43 |           | AT&T and Comcast Design                                                   | 44 days?         | Mon 11/7/16        | Thu 1/5/17          | 100%        |
| 44 |           | Utility Agreement and BCE Development                                     | 64 days?         | Wed 2/15/17        | Mon 5/15/17         | 95%         |
| 45 |           |                                                                           |                  |                    |                     | 0%          |
| 46 |           | <b>Task 2.4 - Bid Phase - Phase 1 - North</b>                             | <b>95 days?</b>  | <b>Mon 1/16/17</b> | <b>Fri 5/26/17</b>  | <b>100%</b> |

| ID | Task Mode | Task Name                                                                 | Duration  | Start        | Finish       | % Complete |
|----|-----------|---------------------------------------------------------------------------|-----------|--------------|--------------|------------|
|    |           |                                                                           |           |              |              |            |
| 47 |           | Advertisement for CMAR Procurement                                        | 23 days?  | Mon 1/16/17  | Wed 2/15/17  | 100%       |
| 48 |           | Pre-Proposal meeting                                                      | 1 day?    | Wed 1/25/17  | Wed 1/25/17  | 100%       |
| 49 |           | Evaluate Submittals                                                       | 9 days?   | Thu 2/16/17  | Tue 2/28/17  | 100%       |
| 50 |           | CMAR Recommendation and Award                                             | 10 days?  | Wed 3/1/17   | Tue 3/14/17  | 100%       |
| 51 |           | Pre-Construction Services/Bidding/GMP Development                         | 44 days?  | Wed 3/15/17  | Mon 5/15/17  | 100%       |
| 52 |           | GMP review and Negotiation                                                | 9 days?   | Tue 5/16/17  | Fri 5/26/17  | 100%       |
| 53 |           |                                                                           |           |              |              | 0%         |
| 54 |           | UUTF Bid Award Review (North End)                                         | 1 day     | Tue 6/6/17   | Tue 6/6/17   | 100%       |
| 55 |           |                                                                           |           |              |              | 0%         |
| 56 |           | Town Council Award (North End)                                            | 1 day     | Tue 6/13/17  | Tue 6/13/17  | 100%       |
| 57 |           |                                                                           |           |              |              | 0%         |
| 58 |           | Start Construction (North End)                                            | 1 day     | Wed 6/14/17  | Wed 6/14/17  | 100%       |
| 59 |           |                                                                           |           |              |              | 0%         |
| 60 |           | Task 2.2 - Detailed Design South End (Phase 1)                            | 250 days? | Mon 5/16/16  | Fri 4/28/17  | 95%        |
| 61 |           | Internal Project Kick off Meeting                                         | 1 day     | Thu 6/16/16  | Thu 6/16/16  | 100%       |
| 62 |           | External Project Kick off Meeting                                         | 1 day     | Mon 6/20/16  | Mon 6/20/16  | 100%       |
| 63 |           | Data Collection                                                           | 138 days? | Mon 5/16/16  | Wed 11/23/16 | 100%       |
| 64 |           | Sunshine One-Call Utility coordination and letter request for record data | 12 days?  | Mon 5/16/16  | Tue 5/31/16  | 100%       |
| 65 |           | Collect/Analyze record information                                        | 46 days?  | Mon 5/16/16  | Mon 7/18/16  | 100%       |
| 66 |           | Site Survey                                                               | 44 days?  | Wed 5/18/16  | Mon 7/18/16  | 100%       |
| 67 |           | Geotechnical Investigation                                                | 34 days?  | Wed 6/1/16   | Mon 7/18/16  | 100%       |
| 68 |           | GPR Utility Corridor Mapping                                              | 5 days?   | Mon 8/8/16   | Fri 8/12/16  | 100%       |
| 69 |           | Soft Dig Utility Locates                                                  | 37 days?  | Tue 10/4/16  | Wed 11/23/16 | 100%       |
| 70 |           | Site Visit to Determine meter locations                                   | 10 days?  | Mon 6/27/16  | Fri 7/8/16   | 100%       |
| 71 |           | Utility Coordination                                                      | 85 days?  | Mon 7/25/16  | Fri 11/18/16 | 100%       |
| 72 |           | Provide Survey Files to Utility Owners                                    | 1 day?    | Mon 7/25/16  | Mon 7/25/16  | 100%       |
| 73 |           | Provision of FPL Equipment Locations                                      | 35 days?  | Mon 10/3/16  | Fri 11/18/16 | 100%       |
| 74 |           | Field Reviews with FPL / ATT / Comcast                                    | 35 days?  | Mon 10/3/16  | Fri 11/18/16 | 100%       |
| 75 |           | Easement Coordination                                                     | 190 days? | Mon 8/8/16   | Fri 4/28/17  | 84%        |
| 76 |           | Determine Easement Needs and Locations                                    | 85 days?  | Mon 8/8/16   | Fri 12/2/16  | 100%       |
| 77 |           | Send Letters to Property Owners                                           | 35 days?  | Mon 10/17/16 | Fri 12/2/16  | 100%       |
| 78 |           | Procure Easements and Follow up                                           | 135 days? | Mon 10/24/16 | Fri 4/28/17  | 70%        |
| 79 |           |                                                                           |           |              |              | 0%         |
| 80 |           | Construction Documents                                                    | 141 days? | Tue 7/19/16  | Tue 1/31/17  | 99%        |
| 81 |           | 60% Construction Document Development                                     | 55 days?  | Tue 7/19/16  | Mon 10/3/16  | 100%       |
| 82 |           | 60% Construction Document Development                                     | 44 days?  | Tue 7/19/16  | Fri 9/16/16  | 100%       |
| 83 |           | 60% Construction Document Internal QC                                     | 5 days?   | Mon 9/19/16  | Fri 9/23/16  | 100%       |
| 84 |           | 60% Construction Document Town Submittal                                  | 1 day?    | Mon 9/26/16  | Mon 9/26/16  | 100%       |
| 85 |           | 60% Town Review and Comment                                               | 5 days?   | Tue 9/27/16  | Mon 10/3/16  | 100%       |
| 86 |           | 90% Construction Document Development                                     | 65 days?  | Tue 10/4/16  | Mon 1/2/17   | 100%       |
| 87 |           | 90% Construction Document Development                                     | 46 days?  | Tue 10/4/16  | Tue 12/6/16  | 100%       |
| 88 |           | Conductor Sizing                                                          | 29 days?  | Tue 11/1/16  | Fri 12/9/16  | 100%       |
| 89 |           | Landscaping Plans                                                         | 26 days?  | Tue 11/1/16  | Tue 12/6/16  | 100%       |
| 90 |           | Technical Specifications                                                  | 46 days?  | Tue 10/4/16  | Tue 12/6/16  | 100%       |
| 91 |           | 90% Construction Document Internal QC                                     | 6 days?   | Wed 12/7/16  | Wed 12/14/16 | 100%       |



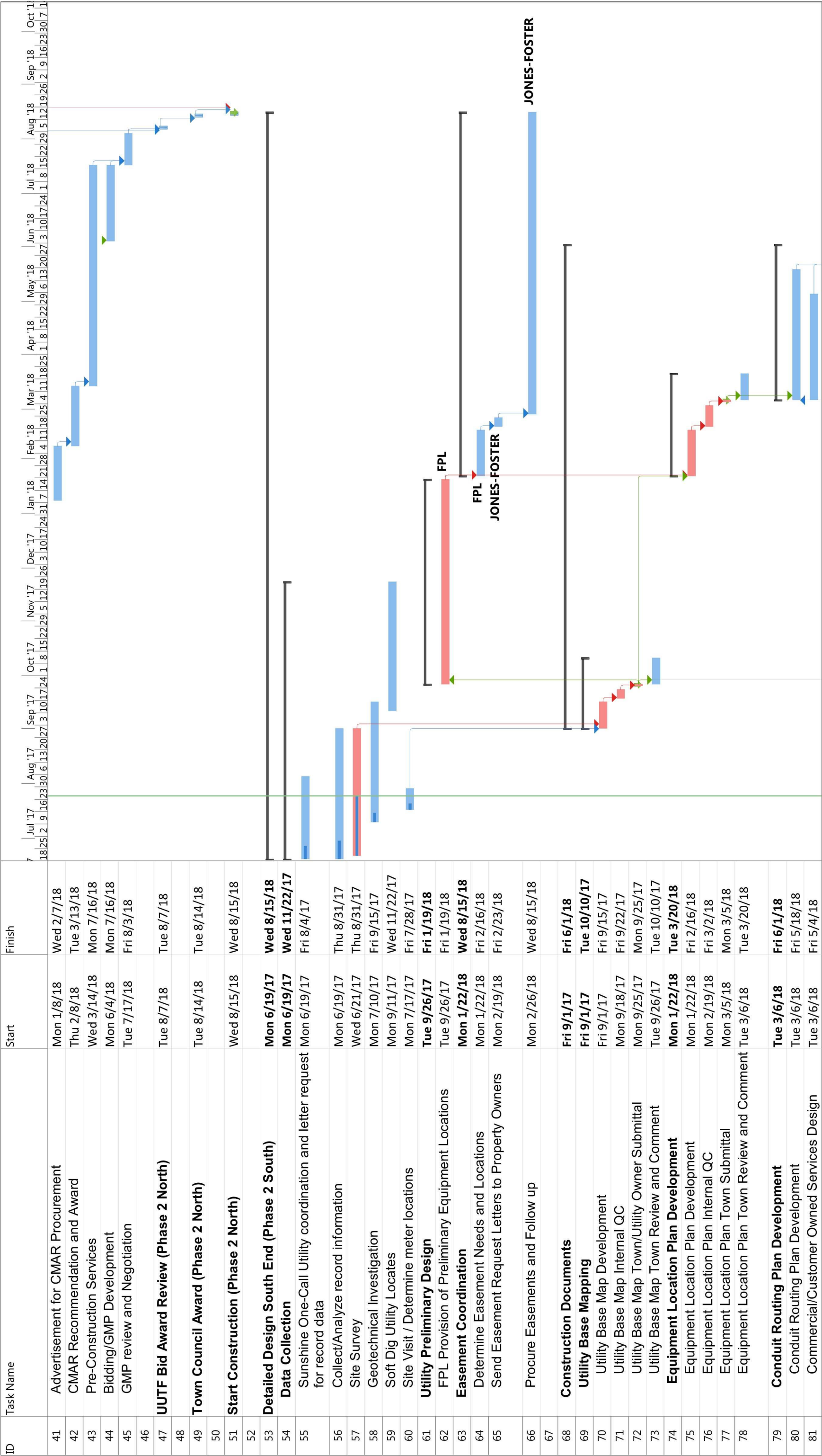
| ID  | Task Mode | Task Name                                             | Duration         | Start              | Finish             | % Complete  |
|-----|-----------|-------------------------------------------------------|------------------|--------------------|--------------------|-------------|
| 92  |           | 90% Construction Document Town Submittal              | 1 day?           | Fri 12/16/16       | Fri 12/16/16       | 100%        |
| 93  |           | 90% Town Review and Comment                           | 11 days?         | Mon 12/19/16       | Mon 1/2/17         | 100%        |
| 94  |           | <b>Final Construction Document Development</b>        | <b>22 days?</b>  | <b>Mon 1/2/17</b>  | <b>Tue 1/31/17</b> | <b>98%</b>  |
| 95  |           | Final Construction Document Development               | 15 days?         | Mon 1/2/17         | Fri 1/20/17        | 98%         |
| 96  |           | Final Construction Document Internal QC               | 6 days?          | Mon 1/23/17        | Mon 1/30/17        | 98%         |
| 97  |           | Final Construction Document Town Submittal            | 1 day?           | Tue 1/31/17        | Tue 1/31/17        | 100%        |
| 98  |           |                                                       |                  |                    |                    |             |
| 99  |           | <b>Utility Design and BCE Development - South End</b> | <b>210 days?</b> | <b>Tue 7/26/16</b> | <b>Mon 5/15/17</b> | <b>98%</b>  |
| 100 |           | FPL Design                                            | 103 days         | Tue 7/26/16        | Thu 12/15/16       | 100%        |
| 101 |           | AT&T and Comcast Design                               | 46 days?         | Mon 10/3/16        | Mon 12/5/16        | 100%        |
| 102 |           | Utility Agreement and BCE Development                 | 64 days?         | Wed 2/15/17        | Mon 5/15/17        | 95%         |
| 103 |           |                                                       |                  |                    |                    | 0%          |
| 104 |           | <b>Task 2.3 - Permitting Assistance - Phase 1</b>     | <b>186 days?</b> | <b>Tue 9/27/16</b> | <b>Tue 6/13/17</b> | <b>84%</b>  |
| 105 |           | FDOT Utility Permit application                       | 33 days?         | Tue 2/28/17        | Thu 4/13/17        | 100%        |
| 106 |           | FDOT Landscape Permit and Construction Agreement/MMOA | 76 days?         | Tue 2/28/17        | Tue 6/13/17        | 50%         |
| 107 |           | FDEP ERP (Mock Roos)                                  | 134 days?        | Tue 9/27/16        | Fri 3/31/17        | 100%        |
| 108 |           |                                                       |                  |                    |                    |             |
| 109 |           | <b>Task 2.4 - Bid Phase - Phase 1 - South</b>         | <b>95 days?</b>  | <b>Mon 1/16/17</b> | <b>Fri 5/26/17</b> | <b>100%</b> |
| 110 |           | Advertisement for CMAR Procurement                    | 23 days?         | Mon 1/16/17        | Wed 2/15/17        | 100%        |
| 111 |           | Pre-Proposal meeting                                  | 1 day?           | Wed 1/25/17        | Wed 1/25/17        | 100%        |
| 112 |           | Evaluate Submittals                                   | 9 days?          | Thu 2/16/17        | Tue 2/28/17        | 100%        |
| 113 |           | CMAR Recommendation and Award                         | 10 days?         | Wed 3/1/17         | Tue 3/14/17        | 100%        |
| 114 |           | Pre-Construction Services/Bidding/GMP Development     | 44 days?         | Wed 3/15/17        | Mon 5/15/17        | 100%        |
| 115 |           | GMP review and Negotiation                            | 9 days?          | Tue 5/16/17        | Fri 5/26/17        | 100%        |
| 116 |           |                                                       |                  |                    |                    |             |
| 117 |           | <b>UUTF Bid Award Review (South End)</b>              | 1 day            | Tue 6/6/17         | Tue 6/6/17         | 100%        |
| 118 |           |                                                       |                  |                    |                    |             |
| 119 |           | <b>Town Council Award (South End)</b>                 | 1 day            | Tue 6/13/17        | Tue 6/13/17        | 100%        |
| 120 |           |                                                       |                  |                    |                    |             |
| 121 |           | <b>Start Construction (South End)</b>                 | 1 day            | Wed 6/14/17        | Wed 6/14/17        | 100%        |

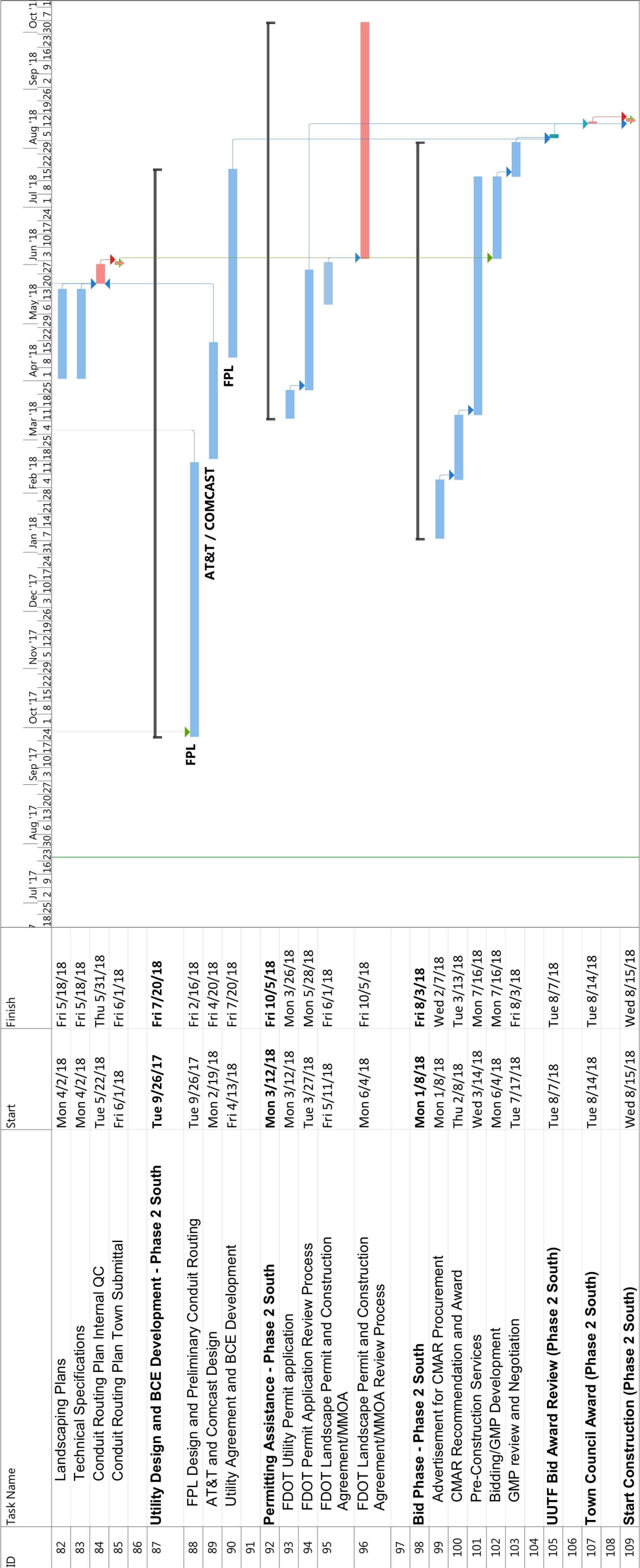


| ID | Task Name                                                                 | Start              | Finish              |
|----|---------------------------------------------------------------------------|--------------------|---------------------|
| 1  | <b>Detailed Design North End (Phase 2 North)</b>                          | <b>Mon 6/19/17</b> | <b>Wed 8/15/18</b>  |
| 2  | <b>Data Collection</b>                                                    | <b>Mon 6/19/17</b> | <b>Wed 11/22/17</b> |
| 3  | Sunshine One-Call Utility coordination and letter request for record data | Mon 6/19/17        | Fri 8/4/17          |
| 4  | Collect/Analyze record information                                        | Mon 6/19/17        | Fri 8/18/17         |
| 5  | Site Survey                                                               | Wed 6/21/17        | Thu 8/17/17         |
| 6  | Geotechnical Investigation                                                | Mon 7/10/17        | Fri 9/15/17         |
| 7  | Soft Dig Utility Locates                                                  | Mon 9/11/17        | Wed 11/22/17        |
| 8  | Site Visit / Determine meter locations                                    | Mon 7/17/17        | Fri 7/28/17         |
| 9  | <b>Utility Preliminary Design</b>                                         | <b>Tue 9/12/17</b> | <b>Fri 1/5/18</b>   |
| 10 | FPL Provision of Preliminary Equipment Locations                          | Tue 9/12/17        | Fri 1/5/18          |
| 11 | <b>Easement Coordination</b>                                              | <b>Mon 1/8/18</b>  | <b>Wed 8/15/18</b>  |
| 12 | Determine Easement Needs and Locations                                    | Mon 1/8/18         | Fri 2/2/18          |
| 13 | Send Easement Request Letters to Property Owners                          | Mon 2/5/18         | Fri 2/9/18          |
| 14 | Procure Easements and Follow up                                           | Mon 2/12/18        | Wed 8/15/18         |
| 15 |                                                                           |                    |                     |
| 16 | <b>Construction Documents</b>                                             | <b>Fri 8/18/17</b> | <b>Fri 6/1/18</b>   |
| 17 | <b>Utility Base Mapping</b>                                               | <b>Fri 8/18/17</b> | <b>Tue 9/26/17</b>  |
| 18 | Utility Base Map Development                                              | Fri 8/18/17        | Fri 9/1/17          |
| 19 | Utility Base Map Internal QC                                              | Mon 9/4/17         | Fri 9/8/17          |
| 20 | Utility Base Map Town/Utility Owner Submittal                             | Mon 9/11/17        | Mon 9/11/17         |
| 21 | Utility Base Map Town Review and Comment                                  | Tue 9/12/17        | Tue 9/26/17         |
| 22 | <b>Equipment Location Plan Development</b>                                | <b>Mon 1/8/18</b>  | <b>Tue 3/6/18</b>   |
| 23 | Equipment Location Plan Development                                       | Mon 1/8/18         | Fri 2/2/18          |
| 24 | Equipment Location Plan Internal QC                                       | Mon 2/5/18         | Fri 2/16/18         |
| 25 | Equipment Location Plan Town Submittal                                    | Mon 2/19/18        | Mon 2/19/18         |
| 26 | Equipment Location Plan Town Review and Comment                           | Tue 2/20/18        | Tue 3/6/18          |
| 27 | <b>Conduit Routing Plan Development</b>                                   | <b>Tue 2/20/18</b> | <b>Fri 6/1/18</b>   |
| 28 | Conduit Routing Plan Development                                          | Tue 2/20/18        | Fri 5/18/18         |
| 29 | Commercial/Customer Owned Services Design                                 | Fri 3/2/18         | Fri 5/4/18          |
| 30 | Landscaping Plans                                                         | Mon 4/2/18         | Fri 5/18/18         |
| 31 | Technical Specifications                                                  | Mon 4/2/18         | Fri 5/18/18         |
| 32 | Conduit Routing Plan Internal QC                                          | Tue 5/22/18        | Thu 5/31/18         |
| 33 | Conduit Routing Plan Town Submittal                                       | Fri 6/1/18         | Fri 6/1/18          |
| 34 |                                                                           |                    |                     |
| 35 | <b>Utility Design and BCE Development - Phase 2 North</b>                 | <b>Tue 9/12/17</b> | <b>Fri 7/20/18</b>  |
| 36 | FPL Design and Preliminary Conduit Routing                                | Tue 9/12/17        | Fri 2/16/18         |
| 37 | AT&T and Comcast Design                                                   | Mon 2/5/18         | Fri 4/20/18         |
| 38 | Utility Agreement and BCE Development                                     | Fri 4/13/18        | Fri 7/20/18         |
| 39 |                                                                           |                    |                     |
| 40 | <b>Bid Phase - Phase 2 North</b>                                          | <b>Mon 1/8/18</b>  | <b>Fri 8/3/18</b>   |

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TOWN-WIDE OVERHEAD UTILITY UNDERGROUNDING  
PHASE 1 NORTH  
SCHEDULE  
RFQ No. 2017-14

| ID | Task Name                                                                                                                                                               | Start        | % Complete | Duration | 2017 | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | 2018 | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | 2019 | Jan |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------|----------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|
| 1  | Phase I - NORTH                                                                                                                                                         | Mon 6/12/17  | 11%        | 420 days |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |
| 2  | Fully Executed Non-GAF Agreement                                                                                                                                        | Mon 6/12/17  | 100%       | 23 days  |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |
| 3  | Copy Of Executed Easements                                                                                                                                              | Mon 6/12/17  | 75%        | 23 days  |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |
| 4  | Fully Executed Applicant Installed Agreement With FPL                                                                                                                   | Mon 6/12/17  | 100%       | 23 days  |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |
| 5  | Fully Executed R/O/W Agreement With FPL                                                                                                                                 | Mon 6/12/17  | 100%       | 23 days  |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |
| 6  | Fully Executed Agreement With COMCAST / AT & T                                                                                                                          | Mon 6/12/17  | 0%         | 23 days  |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |
| 7  | Town Council Approval                                                                                                                                                   | Tue 6/13/17  | 100%       | 1 day    |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |
| 8  | Award Prime Contract                                                                                                                                                    | Wed 6/14/17  | 100%       | 13 days  |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |
| 9  | Permitting                                                                                                                                                              | Mon 6/26/17  | 100%       | 15 days  |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |
| 10 | Customer Owned Service Connection Permitting                                                                                                                            | Mon 6/26/17  | 0%         | 15 days  |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |
| 11 | Sub Contract Agreements                                                                                                                                                 | Wed 6/14/17  | 100%       | 23 days  |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |
| 12 | Material Procurement                                                                                                                                                    | Fri 6/30/17  | 50%        | 11 days  |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |
| 13 | Underground Conduit Installation, Primary/Secondary (FPL, ATT,                                                                                                          | Mon 7/17/17  | 0%         | 91 days  |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |
| 14 | Feeder Splice Box Installation                                                                                                                                          | Thu 10/12/17 | 0%         | 15 days  |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |
| 15 | Set Transformers / Switch Cabinets (FP75 days                                                                                                                           | Wed 11/8/17  | 0%         | 75 days  |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |
| 16 | Secondary Services / Wire                                                                                                                                               | Tue 2/20/18  | 0%         | 138 days |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |
| 17 | As-Built Submission / Review (FPL)                                                                                                                                      | Tue 2/20/18  | 0%         | 47 days  |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |
| 18 | Pull Wire / Terminations Primary (FPL) 81 days                                                                                                                          | Tue 2/20/18  | 0%         | 81 days  |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |
| 19 | *ATT Rod Conduit, Pull Wire, Set Pedestals                                                                                                                              | Tue 2/27/18  | 0%         | 133 days |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |
| 20 | *Comcast Pull Wire, Set Pedestals                                                                                                                                       | Tue 2/27/18  | 0%         | 133 days |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |
| 21 | Cut over / Overhead Removal (ATT/Comcast)                                                                                                                               | Mon 9/3/18   | 0%         | 45 days  |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |
| 22 | Energize Underground (FPL)                                                                                                                                              | Fri 4/27/18  | 0%         | 30 days  |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |
| 23 | Secondary Service Switch Over (FPL)                                                                                                                                     | Mon 6/11/18  | 0%         | 113 days |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |
| 24 | ** Demo Overhead / Remove Poles (FPL) / Final Restoration                                                                                                               | Mon 9/17/18  | 0%         | 90 days  |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |
| 25 | *This Work Will Be Performed By ATT/COMCAST Crews, All Other Work Is Anticipated To Be Performed By A Subcontractor Under The Direction Of Burkhardt Construction, Inc. |              | 0%         |          |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |
| 26 | **This Work Must Be Performed By FPL Crews, All Other Work Is Anticipated To Be Performed By A Subcontractor Under The Direction Of Burkhardt Construction, Inc.        |              | 0%         |          |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |
| 27 | Storm Drainage                                                                                                                                                          | Mon 7/17/17  | 0%         | 45 days  |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |
| 28 | Water Main                                                                                                                                                              | Mon 9/4/17   | 0%         | 35 days  |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |      |     |

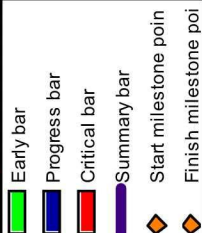


| Act ID                    | Description                                       | Orig Dur | Rem Dur | Early Start | Early Finish | 201720182019 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|---------------------------|---------------------------------------------------|----------|---------|-------------|--------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Preconstruction Phase     |                                                   |          |         |             |              | MAR          | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY |
| 1037                      | Town/W-T agree on Contract Language               | 10       | 0       | 20JAN17 A   | 07MAR17 A    |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1000                      | RFQ Review / Selection Committee Award            | 0        | 0       | 13MAR17 A   |              |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1010                      | Town Commission approves W-T Preconstruction      | 0        | 0       |             | 13APR17 A    |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1005                      | Bid Documents from Engineer                       | 0        | 0       | 17APR17 A   |              |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1015                      | Notice to Proceed (Same date as Executed Contr.)  | 1        | 0       | 17APR17 A   | 17APR17 A    |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1145                      | Receive Executed Precon Contract from Town        | 3        | 0       | 13APR17 A   | 17APR17 A    |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1018                      | Town Provides Proposed "Construction" Contract    | 1        | 0       | 19APR17 A   | 19APR17 A    |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1007                      | Prepare for Preconstruction                       | 3        | 0       | 17APR17 A   | 21APR17 A    |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1025                      | Bid Packages/Addenda out to Bid                   | 6        | 0       | 17APR17 A   | 21APR17 A    |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1020                      | Publicly Advertise Bid                            | 6        | 0       | 16APR17 A   | 23APR17 A    |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1030                      | W-T comments on proposed "contract" language      | 10       | 0       | 19APR17 A   | 02MAY17 A    |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1035                      | Prebid meeting                                    | 0        | 0       | 04MAY17 A   |              |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1040                      | Bids due from Subs                                | 23       | 0       | 17APR17 A   | 24MAY17 A    |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1052                      | Town provides W-T with Construction Contract      | 2        | 0       | 30MAY17 A   | 06JUN17 A    |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1045                      | W-T Summarize Bids / Prepare Draft GMP            | 7        | 0       | 17MAY17 A   | 07JUN17 A    |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1047                      | Finalize GMP                                      | 7        | 0       | 22MAY17 A   | 08JUN17 A    |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1056                      | Submit GMP for Council Approval                   | 5        | 0       | 06JUN17 A   | 08JUN17 A    |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1054                      | W-T signs Construction Contract digitally         | 1        | 0       | 06JUN17 A   | 12JUN17 A    |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1055                      | Town Commission Approval of GMP                   | 0        | 0       |             | 13JUN17 A    |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1195                      | Town Issues Construction Contract                 | 3        | 0       | 13JUN17 A   | 14JUN17 A    |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1065                      | Town issues Construction NTP                      | 1        | 0       | 27JUN17 A   | 27JUN17 A    |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1175                      | FPL Eng Completed/Check Paid to FPL/Sign Agreeame | 0        | 0       |             | 12JUL17 A    |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1185                      | LED Street Lighting issue resolved                | 0        | 0       |             | 26JUL17      |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1075                      | Preconstruction Video                             | 9        | 2       | 20JUL17 A   | 27JUL17      |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1080                      | W-T executes Subcontracts and procures materials  | 21       | 2       | 26JUN17 A   | 27JUL17      |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1095                      | W-T mobilizes for Construction                    | 0        | 0       | 02AUG17     |              |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1085                      | Soft Digs                                         | 12       | 12      | 28JUL17     | 14AUG17      |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1090                      | W-T setup Trailer/Staging Compound                | 21       | 21      | 26JUL17     | 23AUG17      |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Procurement               |                                                   |          |         |             |              |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1100                      | WM Pipe/Fittings/Accessories                      | 20       | 8       | 17JUL17 A   | 04AUG17      |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1105                      | WM Line Stops                                     | 20       | 8       | 17JUL17 A   | 04AUG17      |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1135                      | ATT / Comcast Conduit                             | 30       | 18      | 17JUL17 A   | 18AUG17      |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1130                      | ATT Vaults                                        | 30       | 23      | 17JUL17 A   | 25AUG17      |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1117                      | Street Lighting Conduit/Pull Boxes/Accessories    | 30       | 30      | 27JUL17     | 06SEP17      |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1110                      | FPL Feeder & Primary Conduit Procurement          | 40       | 35      | 17JUL17 A   | 12SEP17      |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1115                      | FPL Secondary Conduit Procurement                 | 40       | 40      | 17JUL17 A   | 19SEP17      |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1120                      | FPL Equipment/Switches /PMEs                      | 60       | 60      | 26JUL17     | 17OCT17      |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1125                      | FPL Wire                                          | 60       | 60      | 17JUL17 A   | 17OCT17      |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1165                      | Precast Pole Base                                 | 60       | 60      | 26JUL17     | 17OCT17      |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1155                      | Street Lights Poles & Fixtures                    | 100      | 100     | 26JUL17     | 12DEC17      |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Construction              |                                                   |          |         |             |              |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| General                   |                                                   |          |         |             |              |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1200                      | Setup Advanced Warning (VMS Boards etc)           | 2        | 2       | 28JUL17     | 31JUL17      |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1205                      | Locates                                           | 10       | 10      | 01AUG17     | 14AUG17      |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1210                      | Soft Digs/Exploration                             | 20       | 20      | 15AUG17     | 11SEP17      |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Start date                | 13MAR17                                           |          |         |             |              |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Finish date               | 07MAY19                                           |          |         |             |              |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Data date                 | 26JUL17                                           |          |         |             |              |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Run date                  | 26JUL17                                           |          |         |             |              |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Page number               | 1A                                                |          |         |             |              |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| © Primavera Systems, Inc. |                                                   |          |         |             |              |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |



| Act ID                                                  | Description                                      | Orig Dur | Rem Dur | Early Start | Early Finish | 2017 | 2018 | 2019 |
|---------------------------------------------------------|--------------------------------------------------|----------|---------|-------------|--------------|------|------|------|
| 1215                                                    | Landscape Relocation/Demo                        | 30       | 30      | 15AUG17     | 25SEP17      |      |      |      |
| <b>S. Ocean Undergrounding -Sta 11+10 to Sta 243+66</b> |                                                  |          |         |             |              |      |      |      |
| 1500                                                    | ATT Conduit Installation                         | 10       | 10      | 21AUG17     | 01SEP17      |      |      |      |
| 1505                                                    | Comcast Conduit Installation                     | 10       | 10      | 21AUG17     | 01SEP17      |      |      |      |
| 1507                                                    | ATT Vault (Installed by W-T's Sub)               | 15       | 15      | 04SEP17     | 22SEP17      |      |      |      |
| 1509                                                    | WT's Sub provide As-Built for ATT/Comcast        | 5        | 5       | 25SEP17     | 29SEP17      |      |      |      |
| 1512                                                    | FPL Feeder Splice Box Installation               | 20       | 20      | 28SEP17     | 25OCT17      |      |      |      |
| 1514                                                    | ATT/Comcast review as-built/inspect/procure wire | 20       | 20      | 02OCT17     | 27OCT17      |      |      |      |
| 1518                                                    | Line Stop Installations                          | 50       | 50      | 22AUG17     | 30OCT17      |      |      |      |
| 1521                                                    | WM Deflections                                   | 60       | 60      | 24AUG17     | 15NOV17      |      |      |      |
| 1525                                                    | Comcast Pull Wire/Set Pedestals/Terminations     | 20       | 20      | 30OCT17     | 24NOV17      |      |      |      |
| 1527                                                    | ATT Pull Wire/Set Pedestals/Terminations         | 20       | 20      | 30OCT17     | 24NOV17      |      |      |      |
| 1530                                                    | ATT remove Overhead Facilities                   | 10       | 10      | 27NOV17     | 08DEC17      |      |      |      |
| 1535                                                    | Comcast remove Overhead Facilities               | 10       | 10      | 27NOV17     | 08DEC17      |      |      |      |
| 1537                                                    | Restoration due to ATT work                      | 10       | 10      | 11DEC17     | 22DEC17      |      |      |      |
| 1540                                                    | Restoration due to Comcast work                  | 10       | 10      | 11DEC17     | 22DEC17      |      |      |      |
| 1543                                                    | FPL Feeder & Primary Conduits Installation       | 75       | 75      | 13SEP17     | 27DEC17      |      |      |      |
| 1545                                                    | Service Sweep Condu /Set Equip Pads/Splice Boxes | 75       | 75      | 12OCT17     | 26JAN18      |      |      |      |
| 1547                                                    | WT's Sub provides As-Built for FPL/TPB/K-H       | 5        | 5       | 28JAN18     | 02FEB18      |      |      |      |
| 1550                                                    | FPL Transformer Pad Installation                 | 20       | 20      | 28JAN18     | 23FEB18      |      |      |      |
| 1553                                                    | FPL Pull Feeder Wire                             | 40       | 40      | 05FEB18     | 30MAR18      |      |      |      |
| 1555                                                    | FPL Set Equip/Vista Switches/PME/Terminations    | 55       | 55      | 10FEB18     | 04MAY18      |      |      |      |
| 1557                                                    | FPL Pull Primary & Service Wire                  | 50       | 50      | 12MAR18     | 18MAY18      |      |      |      |
| 1560                                                    | FPL Primary Cable at 3 Phase Transformer Termin  | 45       | 45      | 07MAY18     | 09JUL18      |      |      |      |
| 1562                                                    | Easements Recorded (Town/KHA)                    | 0        | 0       |             | 09JUL18      |      |      |      |
| 1565                                                    | Make Feeder Hot/Burn-in                          | 10       | 10      | 10JUL18     | 23JUL18      |      |      |      |
| 1570                                                    | Converting / Energizing Services                 | 45       | 45      | 24JUL18     | 24SEP18      |      |      |      |
| 1575                                                    | De-energize existing Aerial Power                | 7        | 7       | 25SEP18     | 03OCT18      |      |      |      |
| 1580                                                    | Bid Unit #1 & #2 Substantial Completion          | 0        | 0       |             | 03OCT18      |      |      |      |
| 1585                                                    | FPL Remove Overhead Cond/Light/Poles (by FPL)    | 90       | 90      | 04OCT18     | 08FEB19      |      |      |      |
| 1590                                                    | Final Landscape & Irrigation Restoration         | 40       | 40      | 28JAN19     | 22MAR19      |      |      |      |
| <b>Ibis Isle</b>                                        |                                                  |          |         |             |              |      |      |      |
| 3005                                                    | Fire Hydrant Assembly                            | 5        | 5       | 11AUG17     | 17AUG17      |      |      |      |
| 3008                                                    | FPL Primary/ATT & Comcast Conduits (Open Cut)    | 30       | 30      | 18AUG17     | 28SEP17      |      |      |      |
| 3010                                                    | Backfill and Temo Restora                        | 30       | 30      | 22AUG17     | 02OCT17      |      |      |      |
| 3020                                                    | WT's Sub provides as-builts for ATT & Comcast    | 5        | 5       | 29SEP17     | 05OCT17      |      |      |      |
| 3035                                                    | ATT/Comcast Reviews as-builts/inspect/procure    | 20       | 20      | 06OCT17     | 02NOV17      |      |      |      |
| 3030                                                    | Service Sweep Condu /Set Equip Pads/Splice Boxes | 45       | 45      | 22SEP17     | 23NOV17      |      |      |      |
| 3055                                                    | WT's Sub provides as-builts for FPL/TPB/KH       | 5        | 5       | 24NOV17     | 30NOV17      |      |      |      |
| 3045                                                    | Set Equip/PME/Terminations                       | 30       | 30      | 24NOV17     | 08JAN18      |      |      |      |
| 3047                                                    | Transformer Installation                         | 30       | 30      | 24NOV17     | 08JAN18      |      |      |      |
| 3049                                                    | Pull Primary & Service Wire                      | 30       | 30      | 09JAN18     | 19FEB18      |      |      |      |
| 3052                                                    | Easements Recorded                               | 0        | 0       |             | 19FEB18      |      |      |      |
| 3057                                                    | ATT/Comcast to install Residential Services      | 35       | 35      | 20FEB18     | 09APR18      |      |      |      |
| 3100                                                    | ATT/Comcast remove overhead facilities           | 20       | 20      | 20MAR18     | 16APR18      |      |      |      |
| 3065                                                    | Energize Primary                                 | 10       | 10      | 10APR18     | 23APR18      |      |      |      |
| 3090                                                    | WT's Sub Converts Residential Services (FPL)     | 45       | 45      | 24APR18     | 25JUN18      |      |      |      |
| 3110                                                    | Bid Unit #3 Substantial Completion               | 0        | 0       |             | 25JUN18      |      |      |      |
| 3070                                                    | FPL Remove Overhead Conductors/Light/Poles       | 90       | 90      | 26JUN18     | 30OCT18      |      |      |      |
| 3074                                                    | Curb Removal & Replacement                       | 7        | 7       | 31OCT18     | 08NOV18      |      |      |      |
| 3076                                                    | Asphalt Mill & Overlay                           | 7        | 7       | 09NOV18     | 19NOV18      |      |      |      |
| 3080                                                    | Final Landscape & Irrigation Restoration         | 45       | 45      | 17OCT18     | 18DEC18      |      |      |      |
| Start date                                              | 13MAR17                                          |          |         |             |              |      |      |      |
| Finish date                                             | 07MAY19                                          |          |         |             |              |      |      |      |
| Data date                                               | 26JUL17                                          |          |         |             |              |      |      |      |
| Run date                                                | 26JUL17                                          |          |         |             |              |      |      |      |
| Page number                                             | 2A                                               |          |         |             |              |      |      |      |
| © Primavera Systems, Inc.                               |                                                  |          |         |             |              |      |      |      |

The Whiting-Turner Contracting Co.  
Town Wide Undergrounding Ph1 - South  
CONSTRUCTION SCHEDULE



Landscape Relocation/Demo

ATT Conduit Installation

Comcast Conduit Installation

ATT Vault (Installed by W-T's Sub)

WT's Sub provide As-Built for ATT/Comcast

FPL Feeder Splice Box Installation

ATT/Comcast review as-built/inspect/procure wire

Line Stop Installations

WM Deflections

Comcast Pull Wire/Set Pedestals/Terminations

ATT Pull Wire/Set Pedestals/Terminations

ATT remove Overhead Facilities

Comcast remove Overhead Facilities

Restoration due to ATT work

Restoration due to Comcast work

FPL Feeder & Primary Conduits Installation

Service Sweep Condu /Set Equip Pads/Splice Boxes

WT's Sub provides As-Built for FPL/TPB/K-H

FPL Transformer Pad Installation

FPL Pull Feeder Wire

FPL Set Equip/Vista Switches/PME/Terminations

FPL Pull Primary & Service Wire

FPL Primary Cable at 3 Phase Transformer Termin

Easements Recorded (Town/KHA)

Make Feeder Hot/Burn-in

Converting / Energizing Services

De-energize existing Aerial Power

Bid Unit #1 & #2 Substantial Completion

FPL Remove Overhead Cond/Light/Poles (by FPL)

Final Landscape & Irrigation Restoration

Fire Hydrant Assembly

FPL Primary/ATT & Comcast Conduits (Open Cut)

Backfill and Temo Restora

WT's Sub provides as-builts for ATT & Comcast

ATT/Comcast Reviews as-builts/inspect/procure

Service Sweep Condu /Set Equip Pads/Splice Boxes

WT's Sub provides as-builts for FPL/TPB/KH

Set Equip/PME/Terminations

Transformer Installation

Pull Primary & Service Wire

Easements Recorded

ATT/Comcast to install Residential Services

ATT/Comcast remove overhead facilities

Energize Primary

WT's Sub Converts Residential Services (FPL)

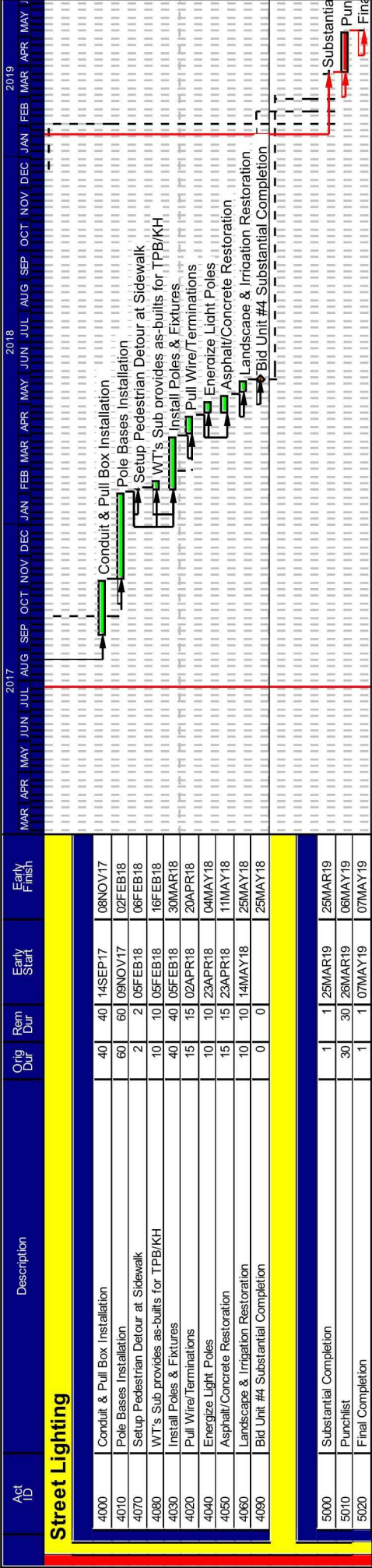
Bid Unit #3 Substantial Completion

FPL Remove Overhead Conductors/Light/Poles

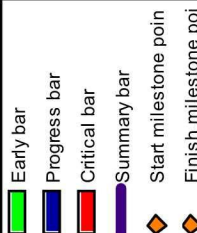
Curb Removal & Replacement

Asphalt Mill & Overlay

Final Landscape & Irrigation Restoration



The Whiting-Turner Contracting Co.  
Town Wide Undergrounding Ph1 - South  
CONSTRUCTION SCHEDULE





Town of Palm Beach  
Underground Utility Project  
Budget and Actual Expenditures  
As of July 31, 2017

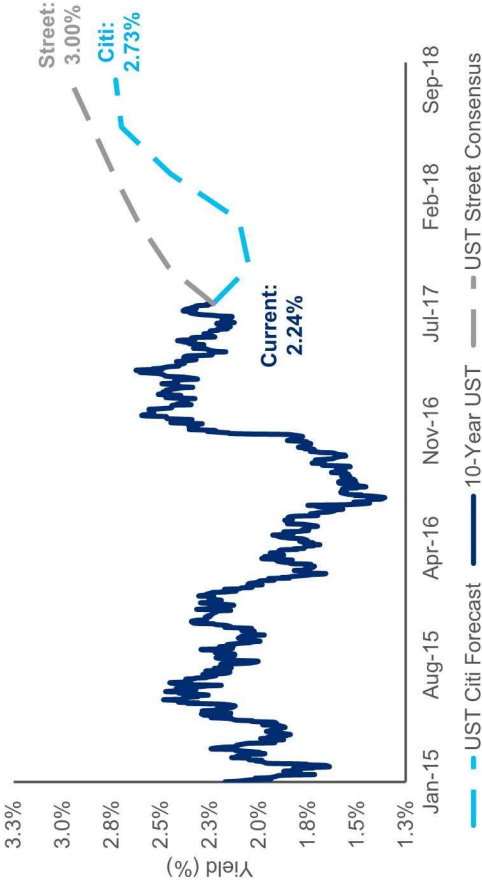
| Task                                                                      | Phase 1<br>Estimates | Phase 1 Actual      | % Expended        | Phase 2<br>Estimates | Phase 2 Actual  | % Expended   | Future Phase<br>and Other<br>Costs |
|---------------------------------------------------------------------------|----------------------|---------------------|-------------------|----------------------|-----------------|--------------|------------------------------------|
| <b>Project Engineering</b>                                                |                      |                     |                   |                      |                 |              |                                    |
| Task 2.1 - Detailed Design North End                                      | 472,063              | 462,622             | 98.00%            |                      |                 |              |                                    |
| Task 2.2 - Detailed Design South End                                      | 619,411              | 607,023             | 98.00%            |                      |                 |              |                                    |
| Task 2.3 - Permitting Assistance                                          | 17,790               | 15,122              | 85.00%            |                      |                 |              |                                    |
| Task 2.4 - Bid Phase Assistance                                           | 42,166               | 42,166              | 100.00%           |                      |                 |              |                                    |
| Task 2.5 - Meetings - Design Phase                                        | 125,399              | 91,854              | 73.25%            |                      |                 |              |                                    |
| Legal Sketch and Description - Easements                                  | 34,000               | 13,715              | 40.34%            |                      |                 |              |                                    |
| <b>Subtotal Design Phase</b>                                              | <b>\$ 1,310,829</b>  | <b>\$ 1,232,501</b> | <b>94.02%</b>     |                      |                 |              |                                    |
| <b>Utility Costs (FPL)</b>                                                |                      |                     |                   |                      |                 |              |                                    |
| FPL Engineering for Binding Cost Estimate                                 | <b>\$ 38,608</b>     |                     |                   |                      |                 |              |                                    |
| North End Design                                                          |                      | 10,595              |                   |                      |                 |              |                                    |
| South End Design                                                          |                      | 28,013              |                   |                      |                 |              |                                    |
| Future Phases                                                             |                      |                     |                   |                      |                 |              | 75,215                             |
| Nightingale/LaPuerta Conversion Townwide Portion                          |                      |                     |                   |                      |                 |              | 74,900                             |
| <b>Total FPL Engineering Costs for Design</b>                             | <b>\$ 38,608</b>     | <b>\$ 38,608</b>    | <b>100.00%</b>    |                      |                 |              | <b>150,115</b>                     |
| <b>Utility Costs (AT&amp;T and Comcast)</b>                               |                      |                     |                   |                      |                 |              |                                    |
| AT&T North End Design                                                     | <b>\$ 10,000</b>     | 5,000               |                   |                      |                 |              |                                    |
| AT&T South End Design                                                     |                      | 5,000               |                   |                      |                 |              |                                    |
| AT&T Nightingale/LaPuerta - Townwide Portion                              |                      |                     |                   |                      |                 |              | 30,555                             |
| Comcast Nightingale/LaPuerta - Townwide Portion                           |                      |                     |                   |                      |                 |              | 8,885                              |
| Comcast Preplanning and Design                                            |                      |                     |                   |                      |                 |              | 12,015                             |
| <b>Total Utility Costs (AT&amp;T and Comcast)</b>                         | <b>\$ 10,000</b>     | <b>\$ 10,000</b>    | <b>100.00%</b>    |                      |                 |              |                                    |
| <b>Construction Costs</b>                                                 |                      |                     |                   |                      |                 |              |                                    |
| Phase 1 North Construction                                                | <b>\$ 4,259,326</b>  |                     |                   |                      |                 |              |                                    |
| Burkhardt Construction                                                    |                      | -                   | -                 |                      |                 |              |                                    |
| Phase 1 South Construction                                                | <b>\$ 6,047,831</b>  |                     |                   |                      |                 |              |                                    |
| Whiting Turner Construction                                               |                      | -                   | -                 |                      |                 |              |                                    |
| Phase 1 North Construction Engineering                                    | <b>\$ 207,771</b>    | <b>\$ 3,533</b>     | <b>1.70%</b>      |                      |                 |              |                                    |
| Phase 1 South Construction Engineering                                    | <b>\$ 283,880</b>    | <b>\$ 6,106</b>     | <b>2.15%</b>      |                      |                 |              |                                    |
| Legal Costs/Easement Acquisition*                                         | <b>\$ -</b>          | <b>\$ 212,040</b>   | <b>0.00%</b>      |                      |                 |              |                                    |
| <b>Phase 2 Design Costs</b>                                               |                      |                     |                   | <b>\$ 979,659</b>    |                 |              |                                    |
| Kimley Horn                                                               |                      |                     |                   |                      | \$ 7,708        | 0.79%        |                                    |
| <b>Master Plan</b>                                                        |                      |                     |                   |                      |                 |              |                                    |
| Task 1.1 - Data Collection & GIS Base Mapping                             |                      |                     |                   |                      |                 |              | 88,021                             |
| Task 1.1a Data Collection for Future Communications                       |                      |                     |                   |                      |                 |              | 23,511                             |
| Task 1.2 - Conceptual Design and Master Plan                              |                      |                     |                   |                      |                 |              | 161,756                            |
| Task 1.3 - Project Sequencing and Phasing                                 |                      |                     |                   |                      |                 |              | 31,244                             |
| Task 1.4 - Assessment of Traffic Impacts                                  |                      |                     |                   |                      |                 |              | 77,660                             |
| Task 1.5 - Project Delivery Methods                                       |                      |                     |                   |                      |                 |              | 17,448                             |
| Task 1.6 - Master Plan Document                                           |                      |                     |                   |                      |                 |              | 42,800                             |
| Task 1.7 - Meetings Master Planning Phase                                 |                      |                     |                   |                      |                 |              | 113,123                            |
| Task 1.8 - Master Plan Phase 2                                            |                      |                     |                   |                      |                 |              | 38,064                             |
| <b>Subtotal Master Planning</b>                                           |                      |                     |                   |                      |                 |              | <b>\$ 593,627</b>                  |
| <b>Community Outreach</b>                                                 |                      |                     |                   |                      |                 |              | 123,466                            |
| Ibis Way PGD Improvements                                                 |                      |                     |                   |                      |                 |              | 14,291                             |
| <b>Estimates and Costs to Date</b>                                        | <b>\$ 11,666,593</b> | <b>\$ 1,493,150</b> | <b>12.80%</b>     | <b>\$ 979,659</b>    | <b>\$ 7,708</b> | <b>0.79%</b> | <b>\$ 920,939</b>                  |
| Phase 1 OPC                                                               | <b>\$ 12,620,000</b> |                     |                   |                      |                 |              |                                    |
| <b>Total Expenditures To Date</b>                                         | <b>\$ 98,600,000</b> | <b>\$ 2,421,797</b> | <b>2.46%</b>      |                      |                 |              |                                    |
| Budget Amendment to Fund the UU Project from Town's Prepaid Contributions |                      | <b>\$ 2,530,250</b> |                   |                      |                 |              |                                    |
| Amount Remaining from Original Budget Amendment                           |                      | <b>\$ 70,197</b>    |                   |                      |                 |              |                                    |
| <b>FY17 Budget for UUTF</b>                                               |                      |                     |                   |                      |                 |              |                                    |
| Underground City of Lake Worth Section                                    |                      | <b>\$ 501,915</b>   | <b>\$ 23,356</b>  | <b>4.65%</b>         |                 |              |                                    |
| Project Manager                                                           |                      | <b>\$ 130,000</b>   |                   |                      |                 |              |                                    |
| UU Funding - GF Allocation to Augment Program                             |                      | <b>\$ 128,285</b>   |                   |                      |                 |              |                                    |
| Total FY17 Budget Allocation                                              |                      | <b>\$ 760,200</b>   | <b>\$ 23,356</b>  | <b>3.07%</b>         |                 |              |                                    |
| <b>Cost Outside of the UU Project Budget</b>                              |                      |                     |                   |                      |                 |              |                                    |
| Telecommunications Consultant                                             |                      | <b>\$ 89,000</b>    | <b>81,388</b>     | <b>91.45%</b>        |                 |              |                                    |
| Peter Brandt (Contract Negotiations)                                      |                      | <b>\$ 25,000</b>    | <b>22,633</b>     | <b>90.53%</b>        |                 |              |                                    |
| <b>Total Additional Costs</b>                                             |                      | <b>\$ 114,000</b>   | <b>\$ 104,021</b> | <b>91.25%</b>        |                 |              |                                    |

\*These costs are currently being paid from the General Fund until they can be reimbursed through the financing.

# U.S. Rate Forecasts

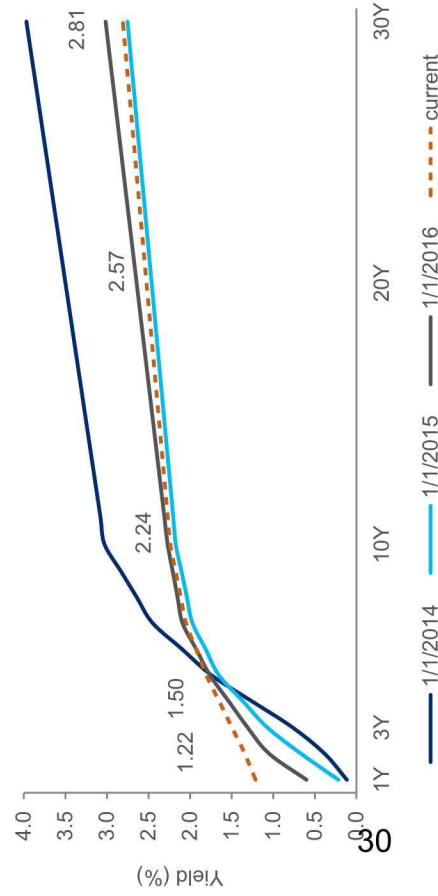
## 10-Year Treasury Yield Forecast

Citi forecasts a muted interest rate environment as we progress through the second half of 2017, while the street's is more elevated



## US Treasury Yield Curve

Rates have lowered across the curve over the past week following the downward move in Treasury yields



## Rate Forecasts

| 5-Year Treasury | Current | 3Q17  | 4Q17  | 1Q18  | 2Q18  | 3Q18  | 4Q18  |
|-----------------|---------|-------|-------|-------|-------|-------|-------|
| Citi's Forecast | 1.81%   | 1.65% | 1.65% | 2.00% | 2.30% | 2.35% | 2.40% |

| 10-Year Treasury      | Current | 3Q17  | 4Q17  | 1Q18  | 2Q18  | 3Q18  | 4Q18  |
|-----------------------|---------|-------|-------|-------|-------|-------|-------|
| Citi's Forecast       | 2.24%   | 2.05% | 2.10% | 2.45% | 2.70% | 2.73% | 2.75% |
| Economists' Consensus |         | 2.45% | 2.60% | 2.74% | 2.90% | 3.00% | 3.15% |

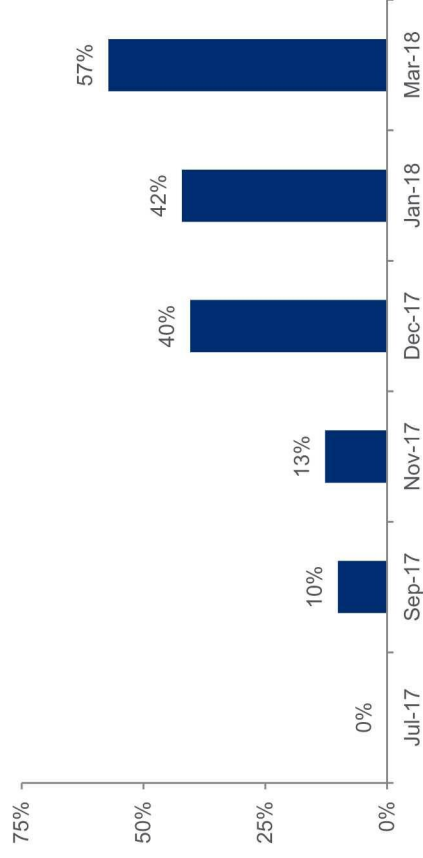
| 30-Year Treasury      | Current | 3Q17  | 4Q17  | 1Q18  | 2Q18  | 3Q18  | 4Q18  |
|-----------------------|---------|-------|-------|-------|-------|-------|-------|
| Citi's Forecast       | 2.81%   | 2.75% | 2.80% | 3.10% | 3.35% | 3.38% | 3.40% |
| Economists' Consensus |         | 3.03% | 3.18% | 3.30% | 3.41% | 3.51% | 3.61% |

| Fed Funds             | Current | 3Q17  | 4Q17  | 1Q18  | 2Q18  | 3Q18  | 4Q18  |
|-----------------------|---------|-------|-------|-------|-------|-------|-------|
| Citi's Forecast       | 1.25%   | 1.25% | 1.50% | 1.75% | 2.00% | 2.25% | 2.25% |
| Economists' Consensus |         | 1.25% | 1.50% | 1.75% | 1.75% | 2.00% | 2.25% |

## Expectations of Next Fed Increase in Rates

The market is currently pricing in a 40% probability of one more rate hike by the end of 2017



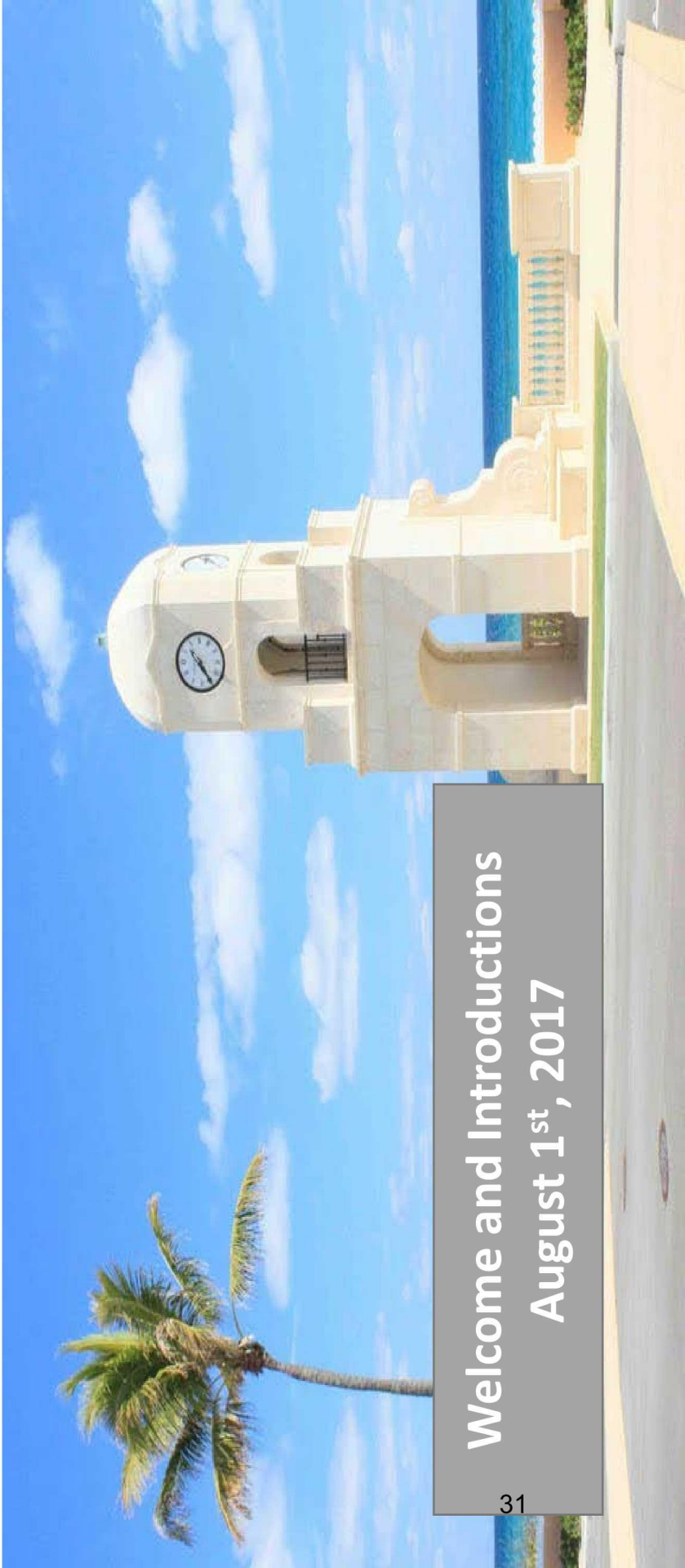
# UNDERGROUNDING OF UTILITIES PROJECT

## PHASE 1 SOUTH



**UNDERGROUNDING  
TODAY**

*For A Better Tomorrow!*



**Welcome and Introductions  
August 1<sup>st</sup>, 2017**





**UNDERGROUNDING  
TODAY**

*For A Better Tomorrow!*

# UNDERGROUNDING OF UTILITIES PROJECT

## PHASE 1 SOUTH



## The Whiting-Turner Contracting Company Firm and Project Overview



# UNDERGROUNDING OF UTILITIES PROJECT

## PHASE 1 SOUTH



**UNDERGROUNDING  
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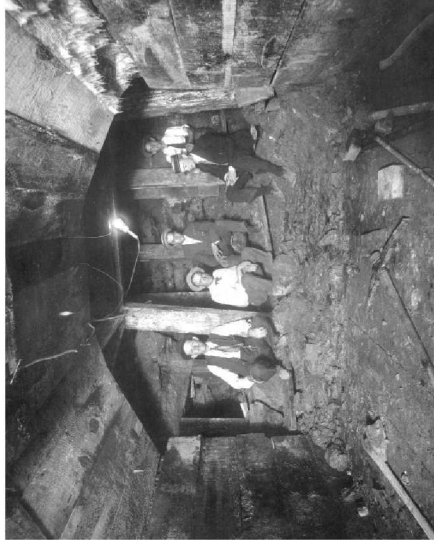
## FIRM COMPOSITION: **HISTORY**



G.W.C. Whiting



LeBaron Turner



- Founded in 1909 in Baltimore
- Started as road, bridge, and tunnel builders



**WT**  
WHITING-TURNER

# UNDERGROUNDING OF UTILITIES PROJECT

## PHASE 1 SOUTH



UNDERGROUNDING  
TODAY

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FIRM COMPOSITION: **NATIONAL RANKING**

**# 2 BUILDING DESIGN  
+ CONSTRUCTION**

Top Contractors by

Building Design + Construction Magazine

**# 3 ENR Southeast**

Top 400 Contractors by  
ENR Southeast Magazine



**WT**  
WHITING-TURNER



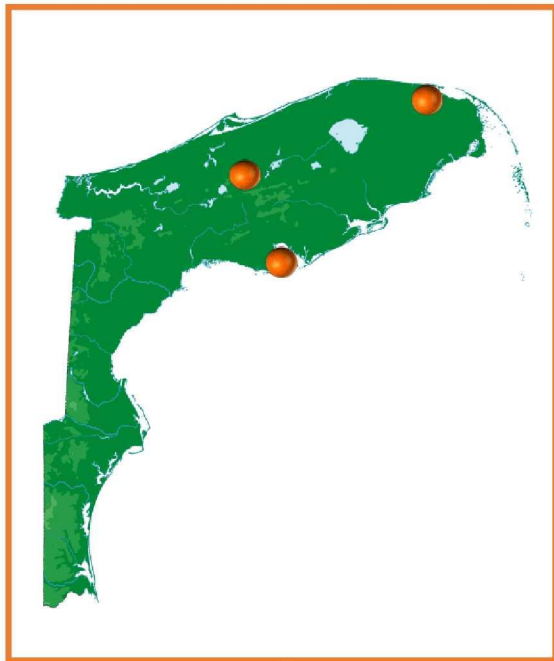
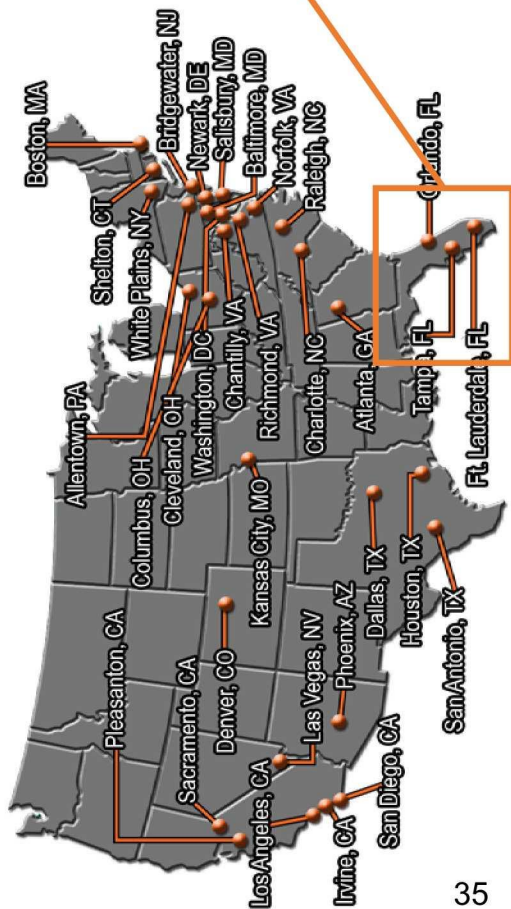
UNDERGROUNDING  
TODAY

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# UNDERGROUNDING OF UTILITIES PROJECT

## PHASE 1 SOUTH

## FIRM COMPOSITION: **NATIONWIDE OFFICES**



**WT**  
WHITING-TURNER



# UNDERGROUNDING OF UTILITIES PROJECT

## PHASE 1 SOUTH



**UNDERGROUNDING  
TODAY**

*For A Better Tomorrow!*

## FIRM COMPOSITION: **OUR PROJECT TEAM**



Frank Zaremba  
**Sr. Project Manager**



Matt Moo Young  
**Project Manager**



Bo Huggins  
**Superintendent**

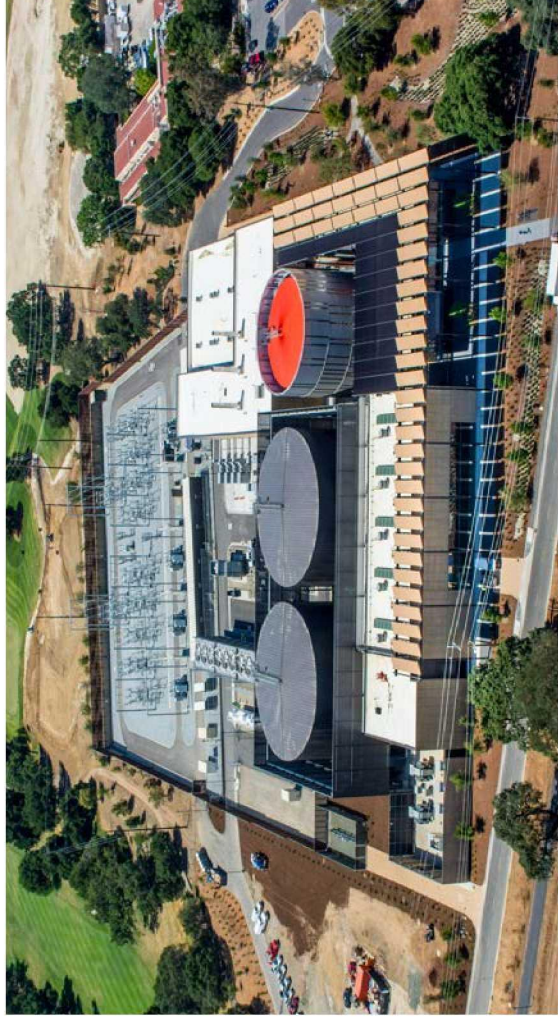


**WT**  
WHITING-TURNER

# UNDERGROUNDING OF UTILITIES PROJECT

## PHASE 1 SOUTH

### WHITING-TURNER EXPERIENCE



**Stanford University**  
Central Energy Facility Stanford Substation



**UNDERGROUNDING  
TODAY**

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**WT**  
WHITING-TURNER

# UNDERGROUNDING OF UTILITIES PROJECT

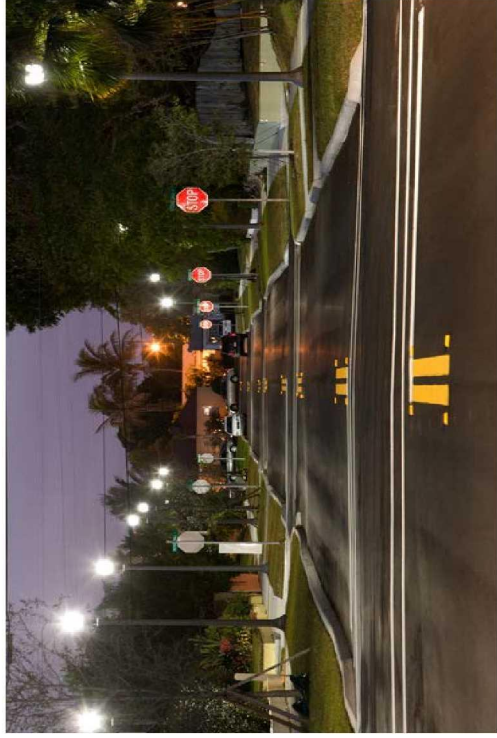
## PHASE 1 SOUTH



**UNDERGROUNDING  
TODAY**

*For A Better Tomorrow!*

## WHITING-TURNER **EXPERIENCE**



**West Palm Beach**  
Broadmoor  
Neighborhood  
Improvements



**WT**  
WHITING-TURNER



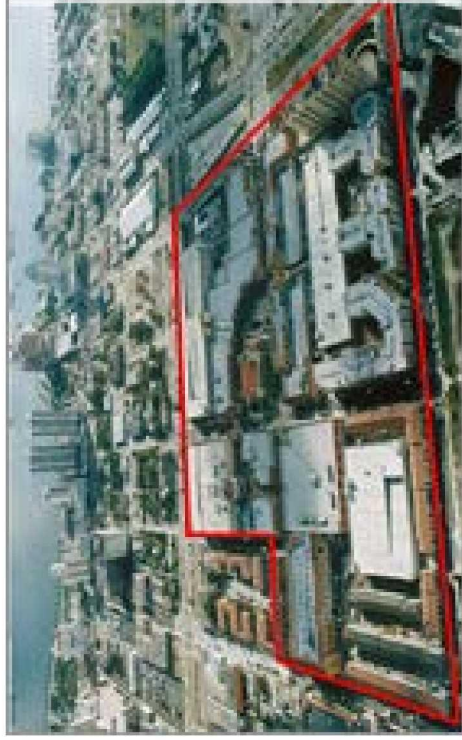
# UNDERGROUNDING OF UTILITIES PROJECT

## PHASE 1 SOUTH

### WHITING-TURNER EXPERIENCE



*Before*



*After*

**West Palm Beach**  
CityPlace



**UNDERGROUNDING  
TODAY**

*For A Better Tomorrow!*

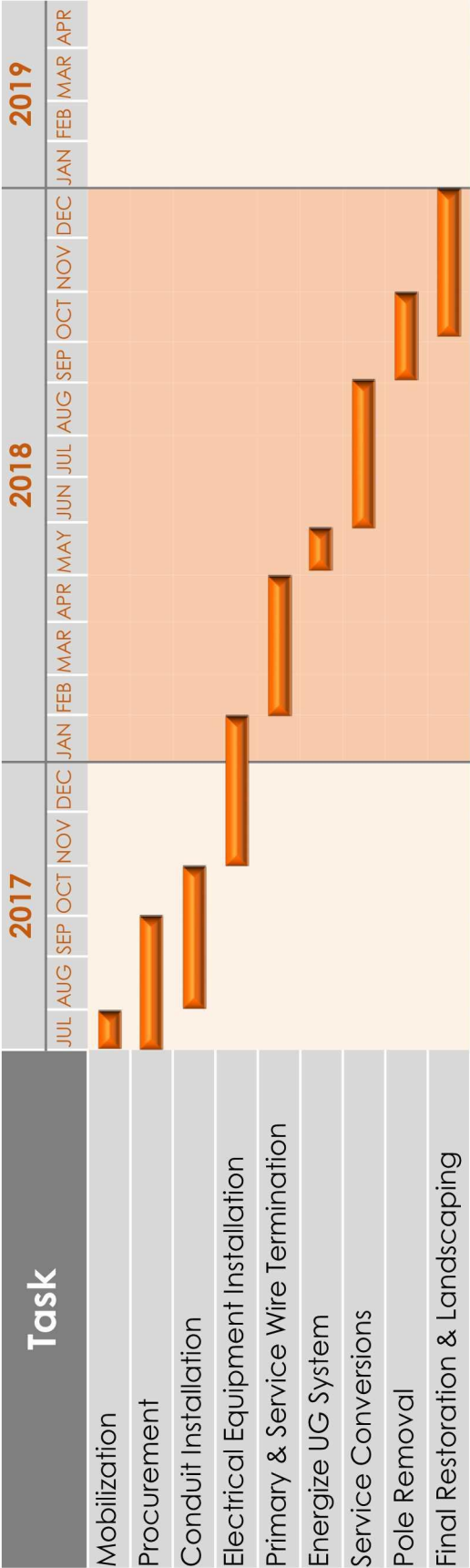


**WT**  
WHITING-TURNER

# UNDERGROUNDING OF UTILITIES PROJECT

## PHASE 1 SOUTH

### OUR PLAN: *IBIS ISLE SCHEDULE*



**UNDERGROUNDING  
TODAY**

*For A Better Tomorrow!*



**WT**  
WHITING-TURNER

# UNDERGROUNDING OF UTILITIES PROJECT

## PHASE 1 SOUTH



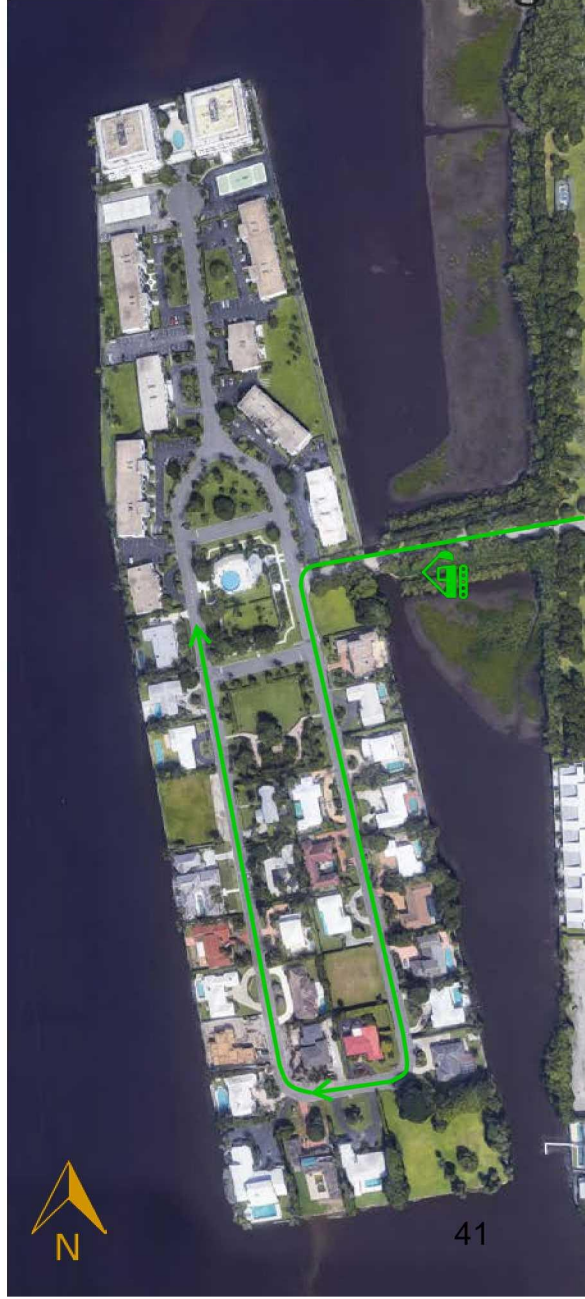
UNDERGROUNDING  
TODAY

*For A Better Tomorrow!*

## OUR PLAN: IBIS ISLE PHASING (APPROXIMATE)

August – October (2017)

Install conduits/ splice  
boxes



41



WT  
WHITING-TURNER



# UNDERGROUNDING OF UTILITIES PROJECT

## PHASE 1 SOUTH



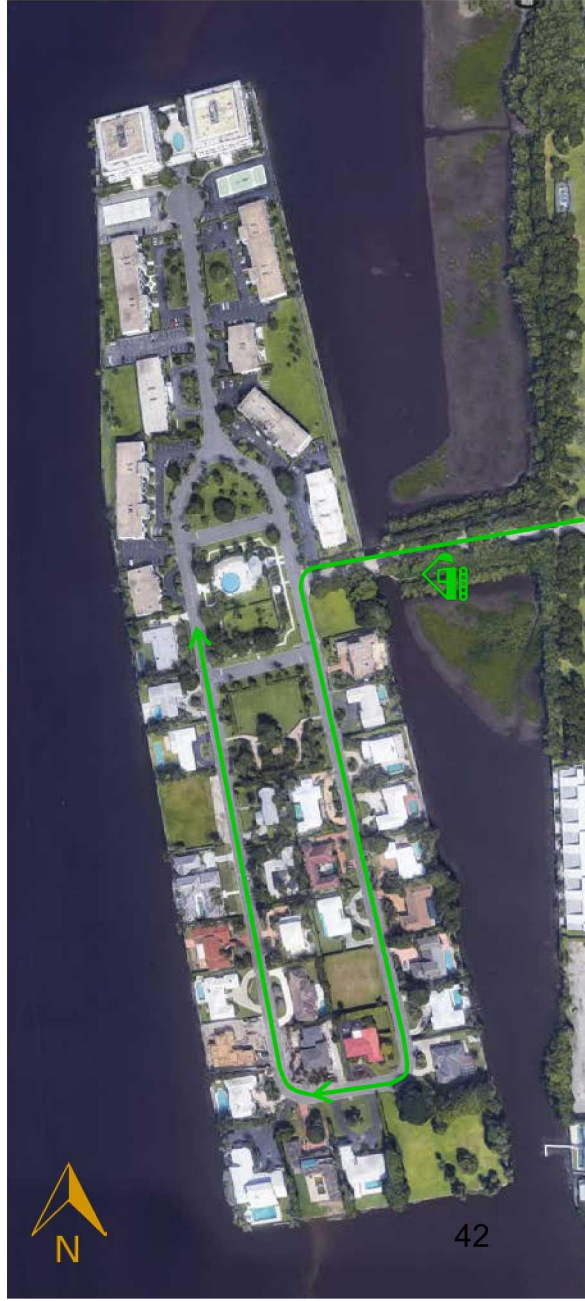
**UNDERGROUNDING  
TODAY**

*For A Better Tomorrow!*

## OUR PLAN: **IBIS ISLE PHASING (APPROXIMATE)**

November (2017) –  
January (2018)

**Setting transformers/  
pulling wire**



42



**WT**  
WHITING-TURNER

# UNDERGROUNDING OF UTILITIES PROJECT

## PHASE 1 SOUTH



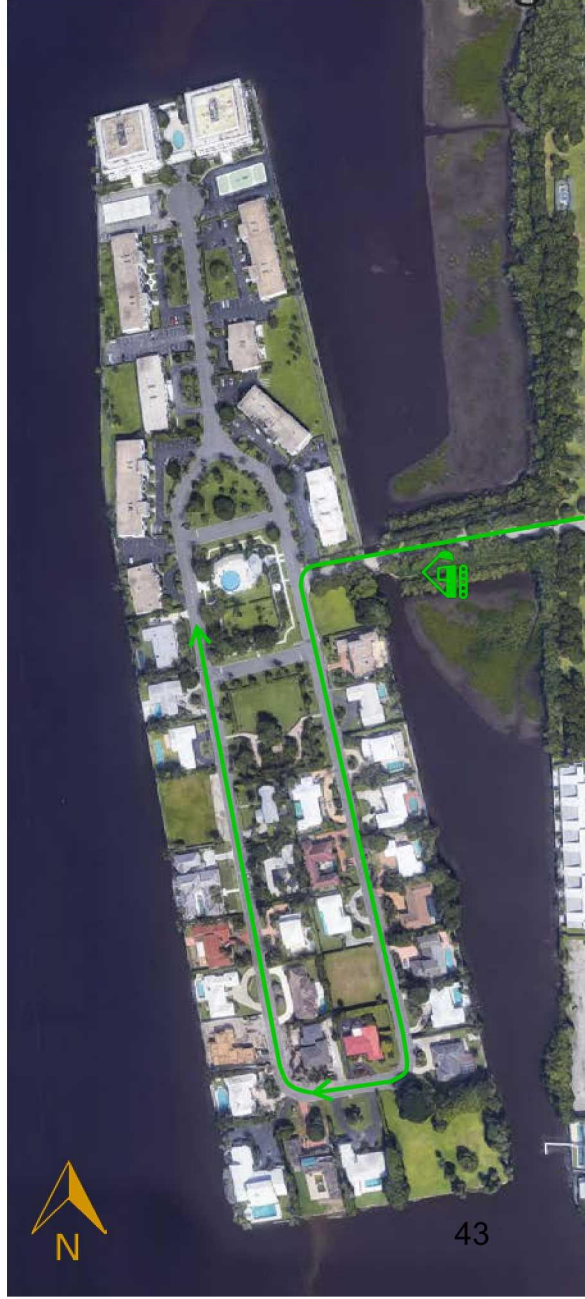
**UNDERGROUNDING  
TODAY**

*For A Better Tomorrow!*

## OUR PLAN: **IBIS ISLE PHASING (APPROXIMATE)**

February – April (2018)

**Primary and service wire  
termination**



43



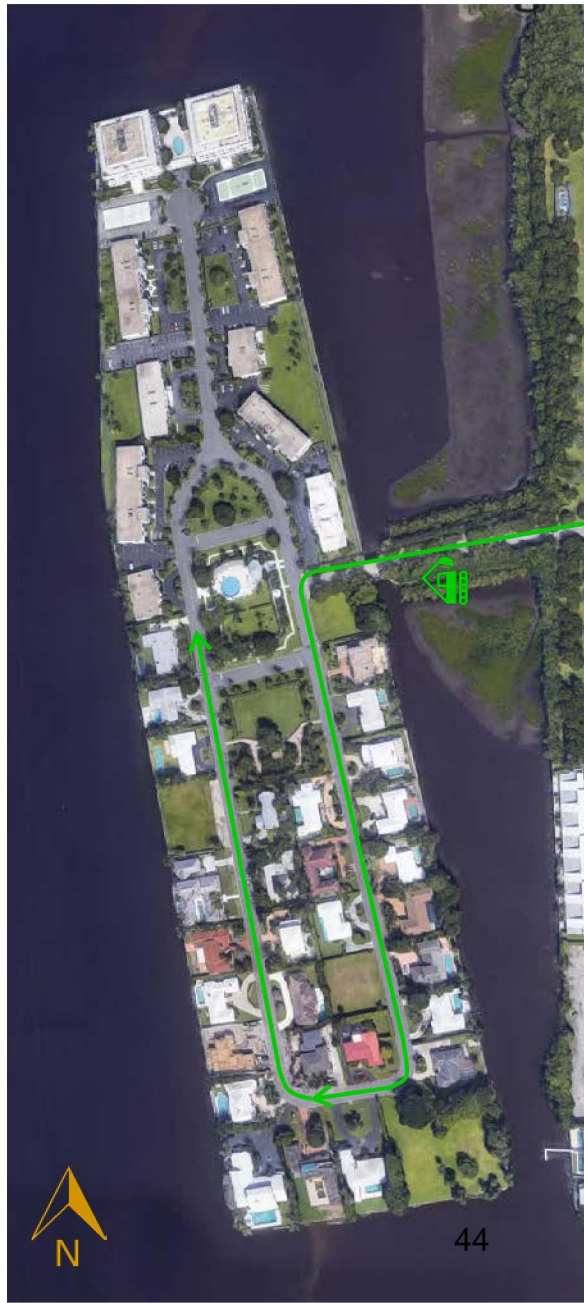
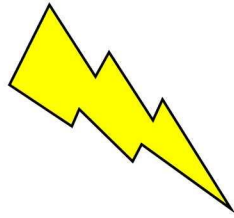
**WT**  
WHITING-TURNER

# UNDERGROUNDING OF UTILITIES PROJECT PHASE 1 SOUTH

## OUR PLAN: **IBIS ISLE PHASING (APPROXIMATE)**

May (2018)

Energize underground  
electrical





# UNDERGROUNDING OF UTILITIES PROJECT

## PHASE 1 SOUTH



**UNDERGROUNDING  
TODAY**

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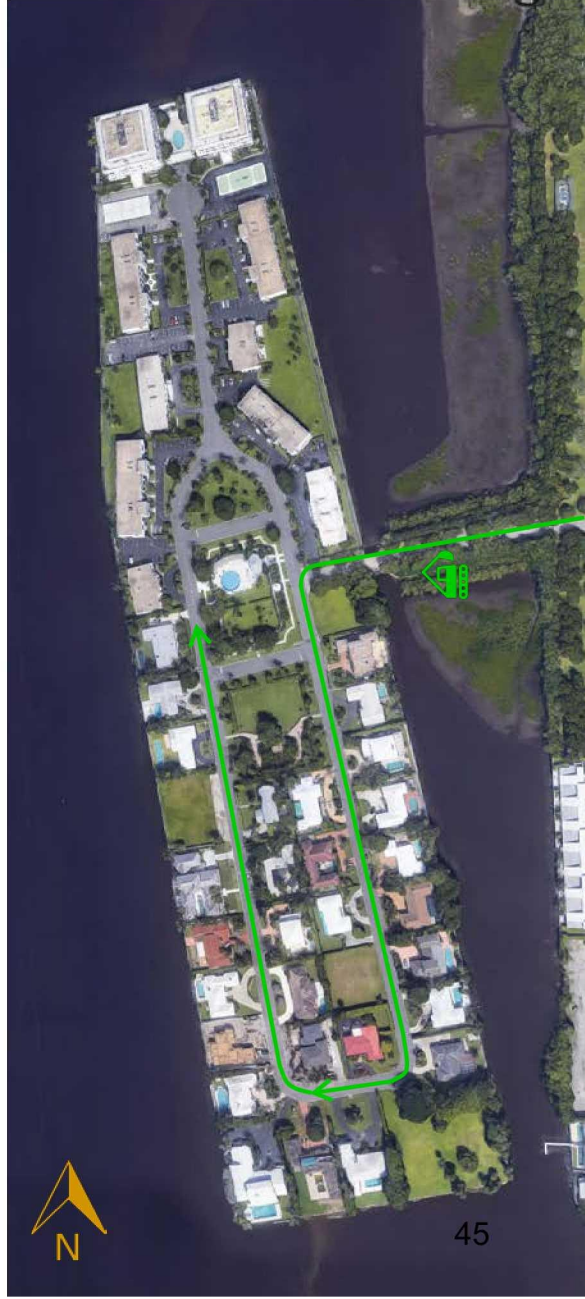
## OUR PLAN: **IBIS ISLE PHASING (APPROXIMATE)**

June - August (2018)

**Converting new underground  
electrical at residences**  
(Conversions will be coordinated  
with each individual residence)



**WT**  
WHITING-TURNER



# UNDERGROUNDING OF UTILITIES PROJECT

## PHASE 1 SOUTH



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## OUR PLAN: **IBIS ISLE PHASING (APPROXIMATE)**



September – October (2018)

### **Pole Removal**

October – December (2018)

### **Final restoration and landscaping**



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WHITING-TURNER

# UNDERGROUNDING OF UTILITIES PROJECT

## PHASE 1 SOUTH



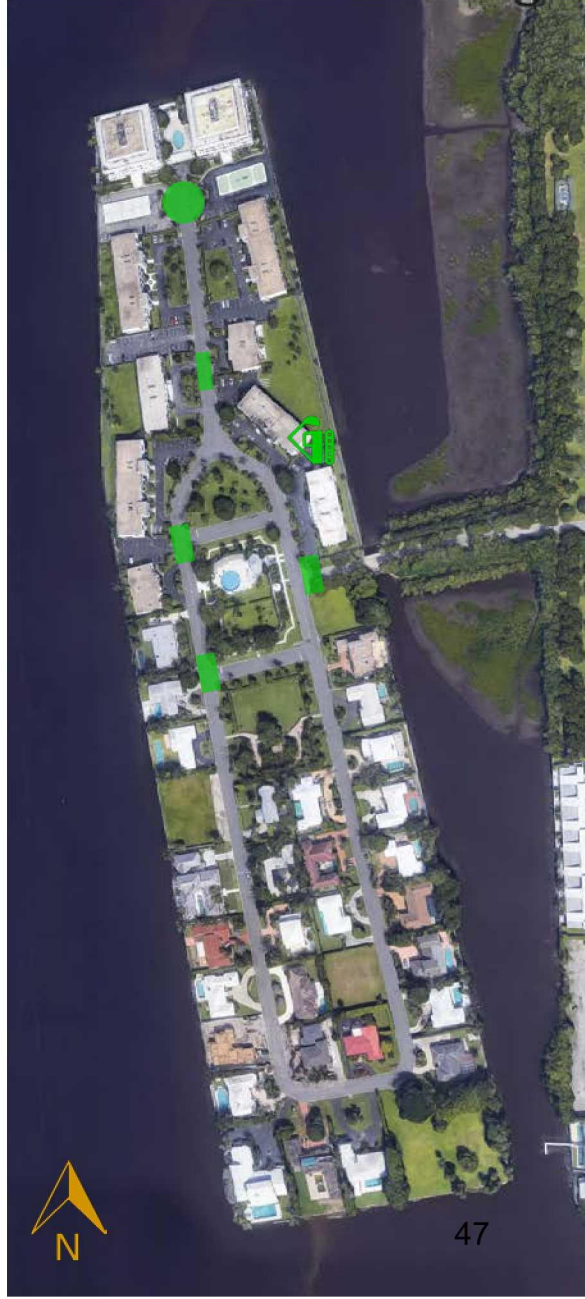
**UNDERGROUNDING  
TODAY**

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## OUR PLAN: **IBIS ISLE PHASING (APPROXIMATE)**

October – November  
(2018)

**Curb and asphalt  
adjustments for drainage**



47



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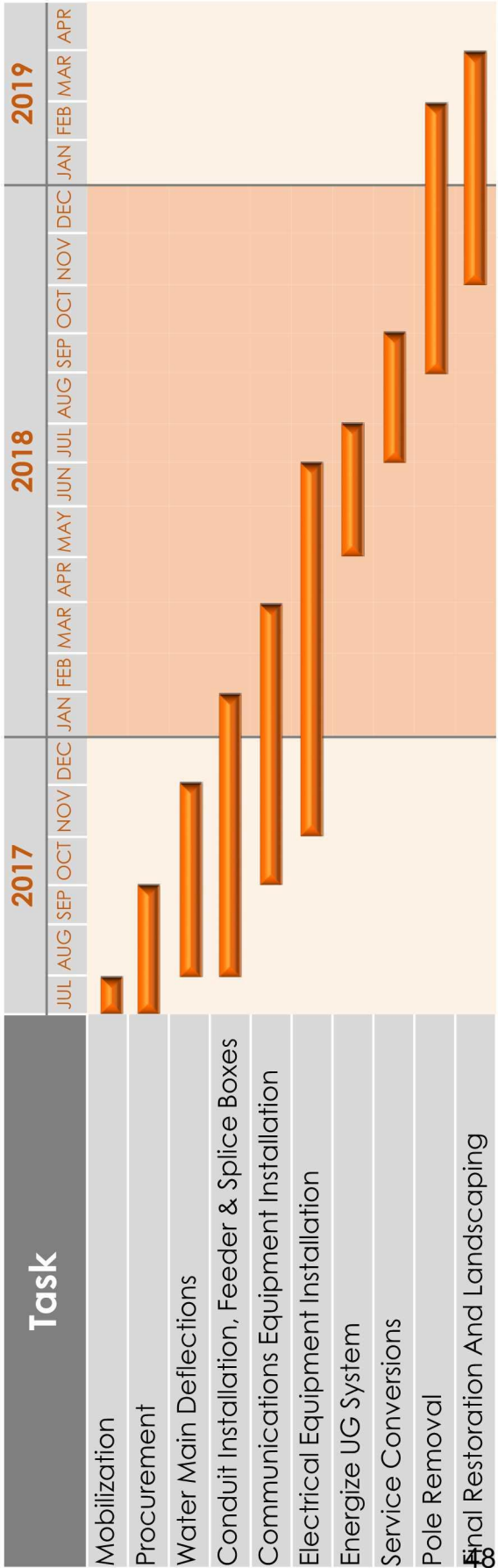
# UNDERGROUNDING OF UTILITIES PROJECT

## PHASE 1 SOUTH



**UNDERGROUNDING  
TODAY**  
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### OUR PLAN: **SCHEDULE**



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# UNDERGROUNDING OF UTILITIES PROJECT

## PHASE 1 SOUTH

### OUR PLAN: PHASING (APPROXIMATE)



August (2017) – March (2019)

**Install conduits, through final restoration and landscaping**



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# UNDERGROUNDING OF UTILITIES PROJECT

## PHASE 1 SOUTH



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## OUR PLAN: **IMPACTS, WHAT TO EXPECT?**

- HDD equipment
- Minimize open cut installation
- Minimize traffic impacts
- Conversion from O.H. to U.G.
- Electric shutdowns  
→ 2-6hrs





# UNDERGROUNDING OF UTILITIES PROJECT

## PHASE 1 SOUTH

### OUR TEAM: **CONTACT INFORMATION**



#### **SR. PROJECT MANAGER:**

[Frank.Zaremba@whiting-turner.com](mailto:Frank.Zaremba@whiting-turner.com)

#### **PROJECT MANAGER:**

[Matthew.MooYoung@whiting-turner.com](mailto:Matthew.MooYoung@whiting-turner.com)

#### **SUPERINTENDENT:**

[Bo.Huggins@whiting-turner.com](mailto:Bo.Huggins@whiting-turner.com)

#### **TOWN MANAGER'S OFFICE:**

[Sstern@townofpalmbeach.com](mailto:Sstern@townofpalmbeach.com)

#### **UNDERGROUNDING WEBSITE:**

[www.Undergrounding.info](http://www.Undergrounding.info)



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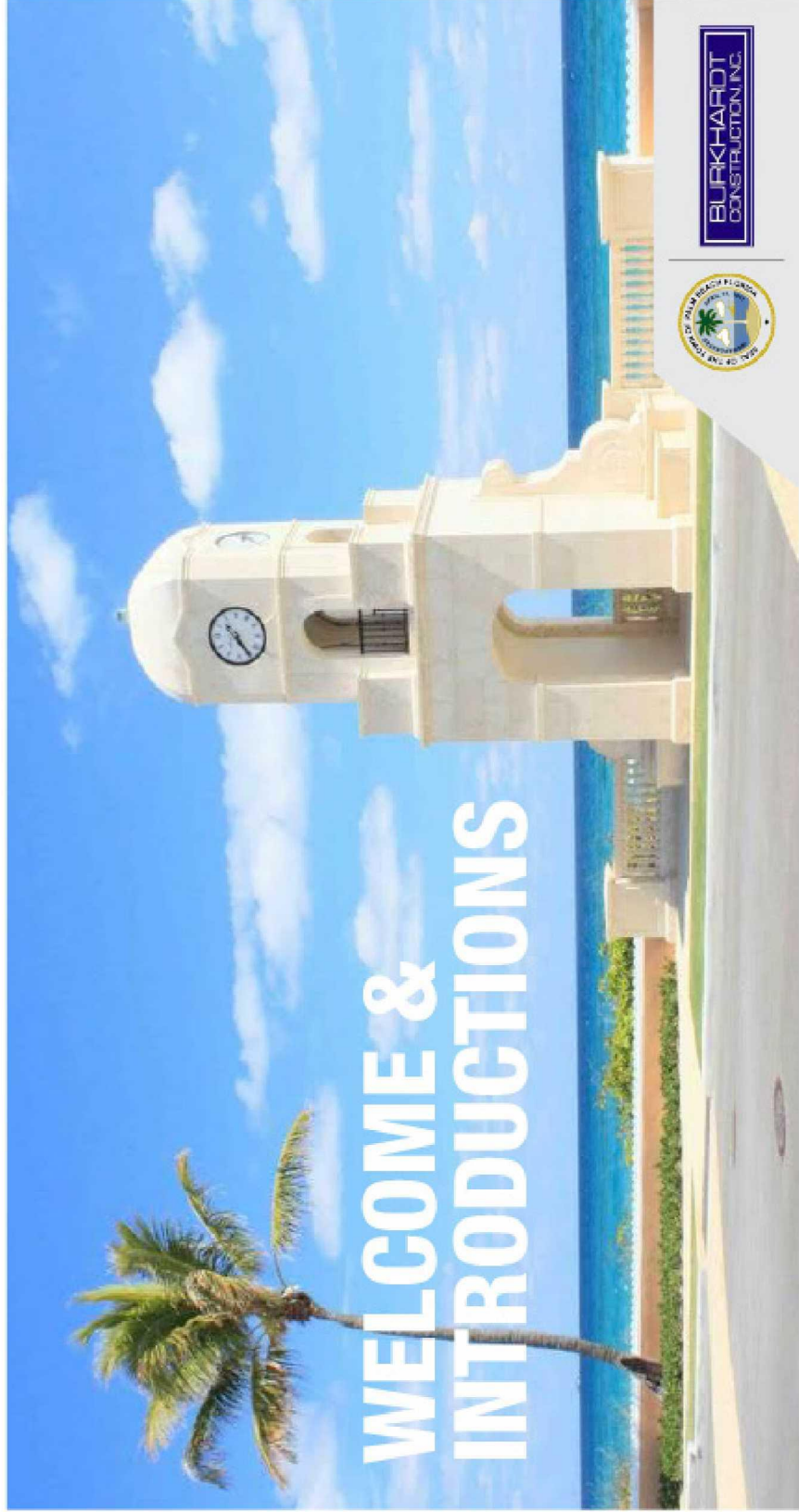
**WT**  
WHITING-TURNER

## UNDERGROUNDING OF UTILITIES PROJECT PHASE 1 NORTH



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CONSTRUCTION, INC.**

UNDERGROUNDING OF UTILITIES PROJECT  
PHASE 1 NORTH



UNDERGROUNDING  
TODAY

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# Town of Palm Beach

## Townwide Overhead Utility Undergrounding

### Phase I – North

(Onondaga Avenue to East Inlet Drive)



## Project Information



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CONSTRUCTION, INC.



## UNDERGROUNDING OF UTILITIES PROJECT PHASE 1 NORTH



UNDERGROUNDING  
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# BURKHARDT CONSTRUCTION, INC

### Deep Local Roots

- Closely held corporation founded in 1975
- Local Executive Management Team
- Main office in West Palm Beach
- Satellite office in Palm Beach

### Construction Manager at Risk Experience

- 48 projects within the past seven years
- 15 years of CMAR experience with municipalities

## Our Mission

*"To provide superior customer service, timely performance, and quality workmanship to each and every one of our clients, completing each project in such a manner that, when given the choice, our clients will choose Burkhardt Construction again for their next project."*



BURKHARDT  
CONSTRUCTION, INC.

## UNDERGROUNDING OF UTILITIES PROJECT PHASE 1 NORTH



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# BURKHARDT CONSTRUCTION, INC

## Palm Beach Undergrounding Experience

- Lake Towers
- Worth Avenue Streetscape

## Statewide Undergrounding Experience

- Town of Palm Beach
- Lake Worth
- Boynton Beach
- West Palm Beach
- Hallandale Beach
- Hollywood
- Pompano Beach
- Ft. Lauderdale
- Kissimmee



**BURKHARDT  
CONSTRUCTION, INC.**

# UNDERGROUNDING OF UTILITIES PROJECT PHASE 1 NORTH



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## KEY JOB PERSONNEL



**Vince Burkhardt**  
Founder & President



**Marc Kleisley**  
Project Principal



**Tony Sabatino**  
Senior Project Manager



**Ted Kaminski**  
Construction Field Manager



**Diane Dacker**  
Resident Liaison



**BURKHARDT  
CONSTRUCTION, INC.**



## UNDERGROUNDING OF UTILITIES PROJECT PHASE 1 NORTH



**UNDERGROUNDING  
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# CONTACT INFORMATION

### Main Office

1400 Alabama Avenue  
Suite 20  
West Palm Beach, FL 33401  
Phone: (561) 659-1400  
Fax: (561) 659-1402

### Email

Vince Burkhardt - [vince@burkhardtconstruction.com](mailto:vince@burkhardtconstruction.com)  
Marc Kleisley - [marc@burkhardtconstruction.com](mailto:marc@burkhardtconstruction.com)  
Tony Sabatino - [tony@burkhardtconstruction.com](mailto:tony@burkhardtconstruction.com)  
Ted Kaminski - [ted@burkhardtconstruction.com](mailto:ted@burkhardtconstruction.com)  
Diane Decker - [diane@burkhardtconstruction.com](mailto:diane@burkhardtconstruction.com)

**Project Office**  
Paramount Building  
139 N County Road #16  
Palm Beach, FL 33480



**Diane's cell phone number (561) 718-2605**



## UNDERGROUND TODAY

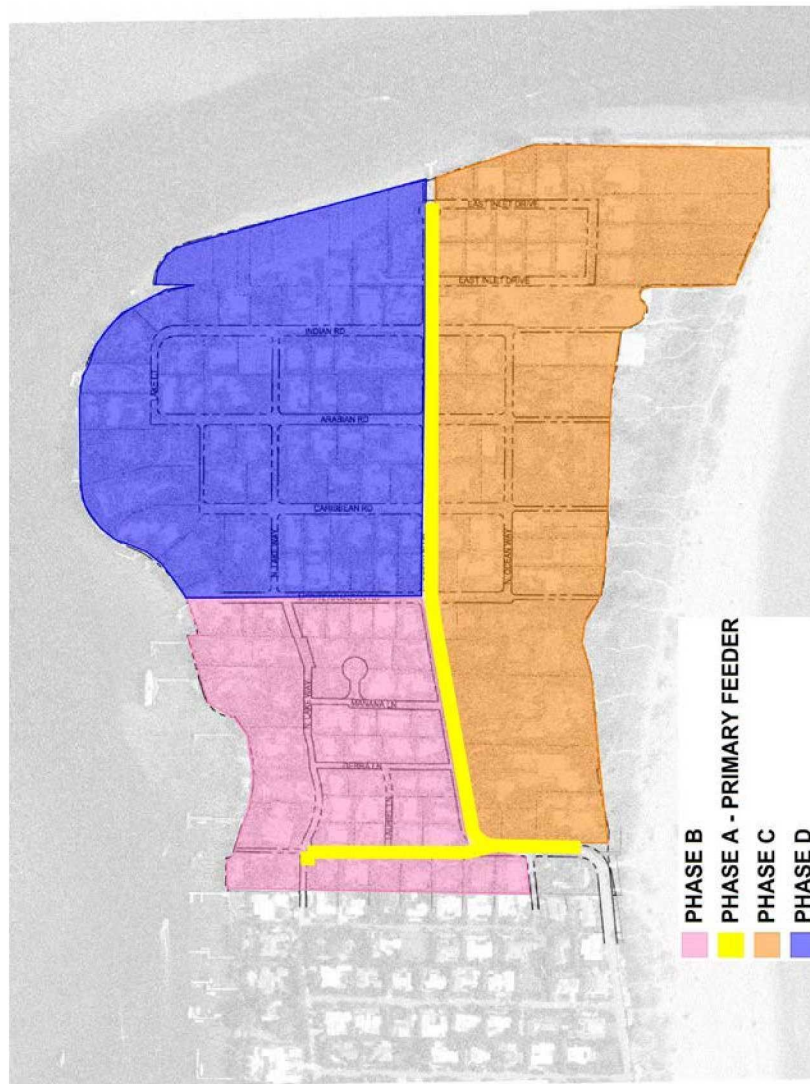
*For 4 Better Companies!*

BURKHARDT  
CONSTRUCTION, INC.



## UNDERGROUND TODAY

*For A Better Tomorrow!*

BLUKHARDT  
CONSTRUCTION, INC.



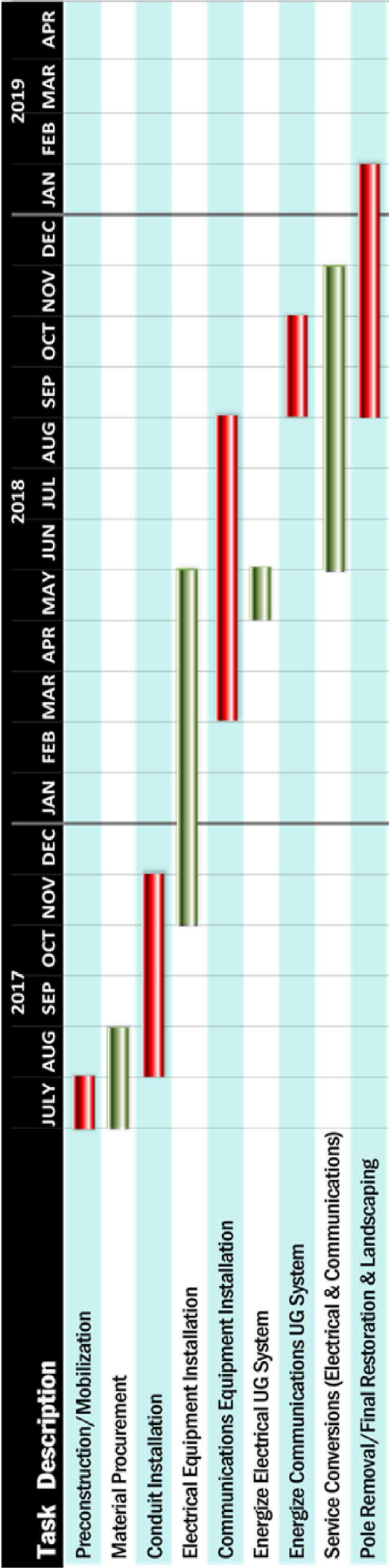


UNDERGROUNDING TODAY

For A Better Tomorrow!

UNDERGROUNDING OF UTILITIES PROJECT

PHASE 1 NORTH



## UNDERGROUNDING OF UTILITIES PROJECT PHASE 1 NORTH



**UNDERGROUNDING  
TODAY**

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### **Type of construction to expect on Onondaga Avenue:**

- **Storm Drainage Improvements**
- **Curb Installation**
- **Roadway Re-surfacing**
- **Utility Undergrounding**



**Typical Storm Drainage Installation**



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# UNDERGROUNDING OF UTILITIES PROJECT PHASE 1 NORTH



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## Curb Installation



## Roadway Re-surfacing



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## UNDERGROUNDING OF UTILITIES PROJECT PHASE 1 NORTH



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**Type of construction  
to expect from  
Onondaga Avenue to  
East Inlet Drive:**

- **Watermain Improvements**
- **Utility Undergrounding**



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## UNDERGROUNDING OF UTILITIES PROJECT PHASE 1 NORTH



**UNDERGROUNDING  
TODAY**

*For A Better Tomorrow!*

**Type of construction  
to expect from  
Onondaga Avenue to  
East Inlet Drive:**

**Utility Undergrounding**



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# UNDERGROUNDING OF UTILITIES PROJECT PHASE 1 NORTH



**UNDERGROUNDING  
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## LANDSCAPING



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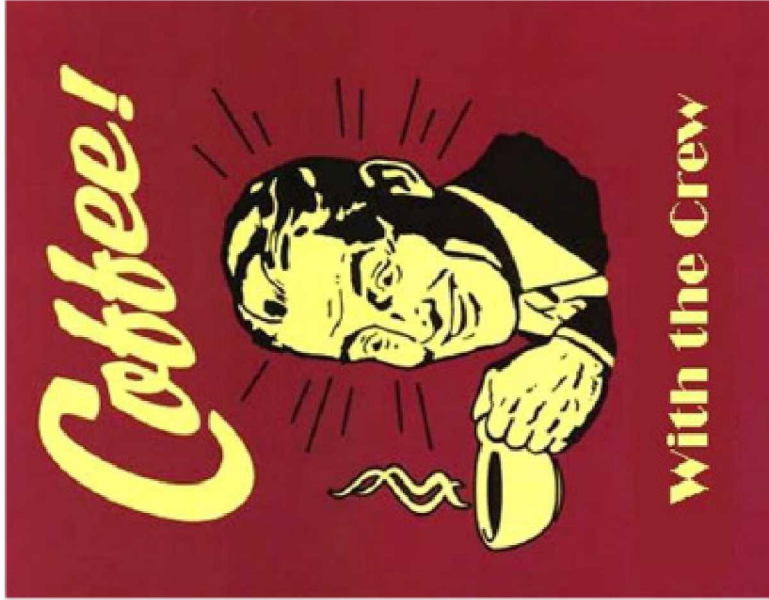
UNDERGROUNDING OF UTILITIES PROJECT  
PHASE 1 NORTH



UNDERGROUNDING  
TODAY

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JOIN  
US



BURKHARDT  
CONSTRUCTION, INC.



FOR IMMEDIATE RELEASE:

**Town of Palm Beach Hosts Official Groundbreaking Ceremonies for Phase 1 North and Phase 1 South of the Undergrounding of Utilities Project**

Palm Beach, FL – The Town of Palm Beach will host Official Groundbreaking Ceremonies for Phase 1 North and Phase 1 South of the Undergrounding of Utilities Project. Both Ceremonies will be held on Friday, August 4, 2017 in the respective equipment staging areas for Phase 1 North and Phase 1 South. The Groundbreakings will celebrate the commencement of the construction process and recognize the efforts of the Mayor, Town Council and Undergrounding of Utilities Task Force members in guiding the process to this point.

**Phase 1 South** – 9:00am, August 4, 2017, Phipps Ocean Park, 2201 South Ocean Blvd., Palm Beach, FL 33480. Parking is available in Phipps Ocean Park, North Lot.

**Phase 1 North** – 10:30am, August 4, 2017, Corner of Onondaga Avenue and Laurie Lane, Palm Beach, FL 33480. Please park on the nearest side streets and avoid parking on N. Lake Way and N. Ocean Blvd.

As parking is limited, the Town will relax enforcement of right-of-way and street level parking during the Ceremonies.

Questions may be directed to Steven Stern, Underground Utilities Project Manager

Contact:  
Steven N. Stern  
Underground Utilities Project Manager  
Town of Palm Beach  
Town Manager's Office  
Office: 561-227-6307  
Mobile: 615-668-2278  
[sstern@TownOfPalmBeach.com](mailto:sstern@TownOfPalmBeach.com)

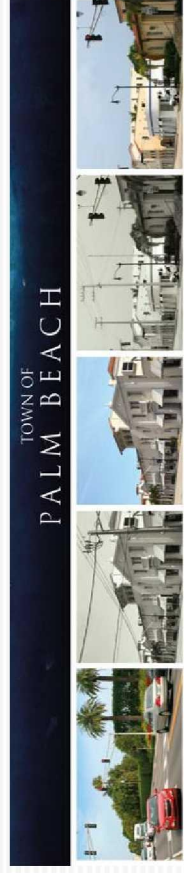
###



# Master Planning Phase

## Progress Update

- Meetings with Utility Providers to discuss potential cost reductions



## TOWN-WIDE *Undergrounding of Utilities* MASTER PLAN



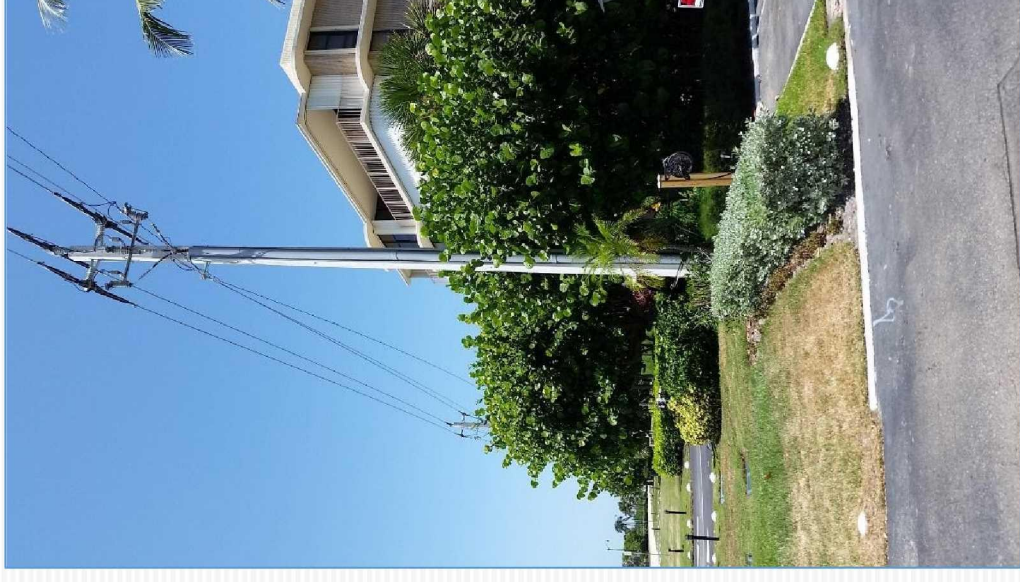




# Construction – Phase 1

## Progress Update

- Construction Document finalization
- Pre-Construction and Mobilization
- Community Information Meetings
- Shop Drawing Review
- Easement Acquisition





# Construction - Phase 1

## Easement Acquisition Progress Update

| Phase 1 North                               |    |
|---------------------------------------------|----|
| Easements Required                          | 39 |
| Owners Contacted                            | 39 |
| Easements that have received Owner Approval | 13 |
| Fully Executed Easements Received           | 25 |

| Phase 1 South                               |          |
|---------------------------------------------|----------|
| Easements Required                          | 23       |
| Owners Contacted                            | 17 (all) |
| Easements that have received Owner Approval | 8        |
| Fully Executed Easements Received           | 9        |

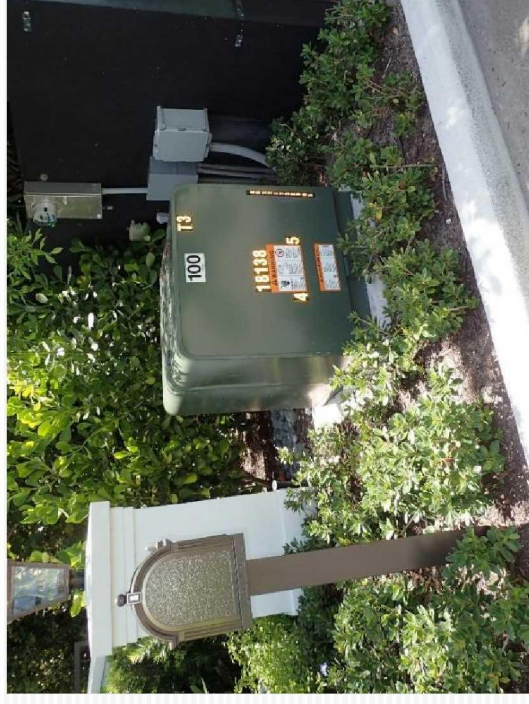
| Voluntary Easements      |   |
|--------------------------|---|
| Easements<br>Volunteered | 7 |
| Interested<br>Properties | 7 |



# Design – Phase 2

## Progress Update

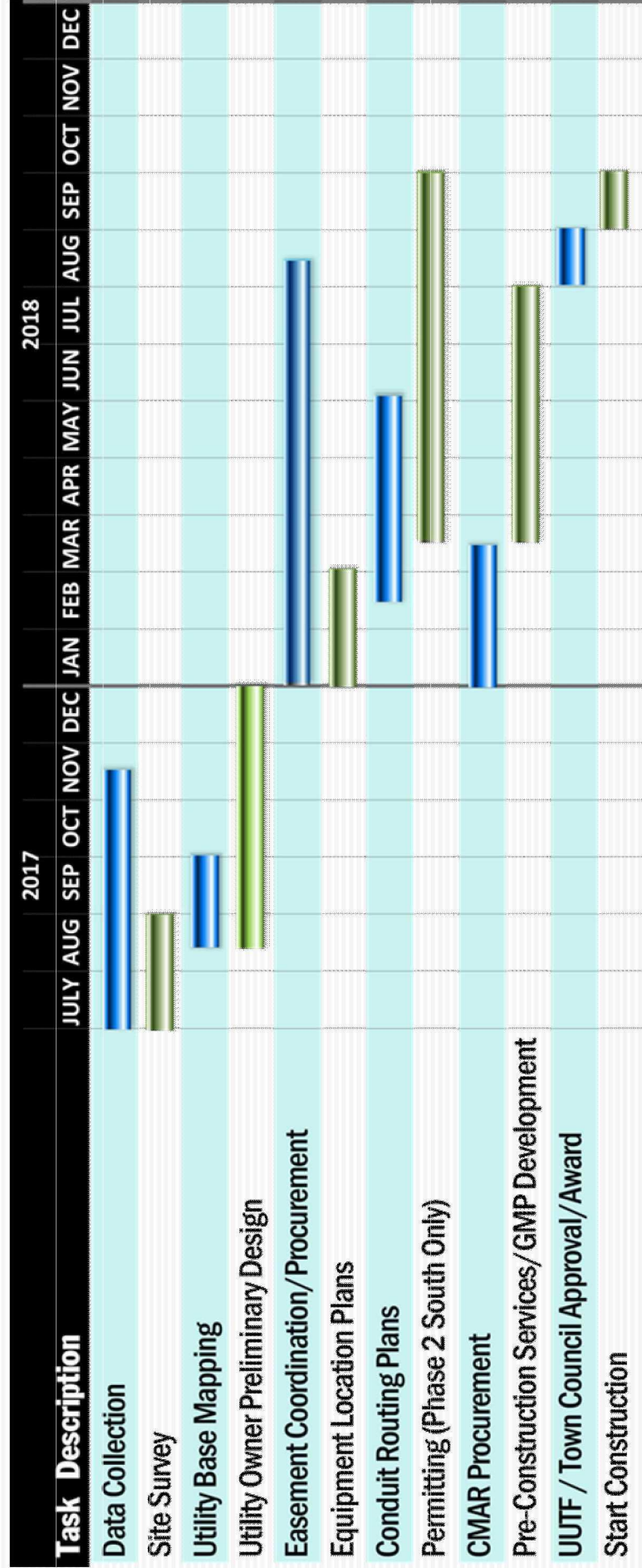
- ☐ Field Surveying
- ☐ Site visits and meter reviews
- ☐ Data Collection – existing utilities/easements
- ☐ Progress/Coordination Meetings







# Design Schedule – Phase 2





## Saves and Raves

**Saves:** Voluntary Easements have eliminated three watermain deflections

**Raves:** Recognition of the community for coming out to our public information meetings related to construction of Phase 1 North and South.



## Schedule Alternatives – Phase 2





# Schedule Alternatives – Phase 2

## Three Alternatives Developed

- ☐ Alternative 1: Current Schedule with Mitigating Factors
- ☐ Alternative 2: Stand Down for Season
- ☐ Alternative 3: Phase 2 Start in May 2019



# **Schedule Alternatives – Phase 2**

## **Alternative 1: Current Schedule with Mitigating Factors**

### **Maintain existing schedule – mitigate construction impacts in season**

#### **Mitigating Factors:**

- ❖ HDD Method of conduit installation
- ❖ Major North-South Roadways Prioritized
- ❖ Infrastructure work in 2019

# Schedule Alternatives – Phase 2

## Alternative 1: Current Schedule with Mitigating Factors

### Advantages

- ❖ No projected cost impacts to program
- ❖ Maintains overall program schedule

### Disadvantages

- ❖ Construction during season



# Schedule Alternatives – Phase 2

## Alternative 2: Stand Down for Season

**Construction ceases for season and starts again the following summer**

### Advantages

- ❖ No construction impacts during season

### Disadvantages

- ❖ Cost impacts due to demobilization/remobilization
- ❖ Schedule impacts extend into Phase 4



# Schedule Alternatives – Phase 2

## Alternative 3: Phase 2 Start in May 2019

### Phase 2 construction starts in May 2019 in lieu of September 2018

#### Advantages

- ❖ No construction impacts during season
- ❖ Allows construction of phases to start in May optimizing use of summer construction season

#### Disadvantages

- ❖ Cost impacts due to extension of program duration
- ❖ Program duration is extended by one year

# Communications and Outreach



- ✓ Four community meetings
- ✓ Phase 1 Construction Emails
- ✓ Website Updates
- ✓ Dashboard Update

- Overview of the project
- Opportunity to meet the Construction Manager
- Invite resident through mail, email and media
- Work with residents to collect contact information for future updates





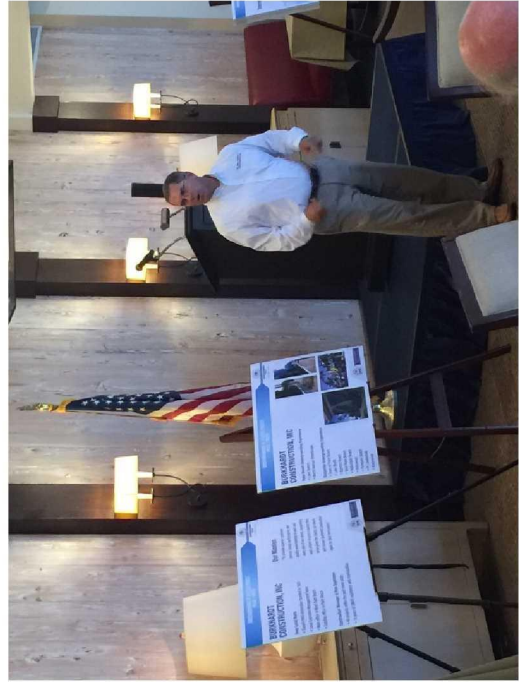
## TWO COMMUNITY MEETINGS

- Ibis Isle
- Phase 1 South Community Meeting
- Over 100 residents attended



## TWO COMMUNITY MEETINGS

- Infrastructure work for Onondaga, Laurie Lane and East Inlet Drive
- Phase 1 North Community Meeting
- Over 25 residents attended



## Preconstruction Videos

- ✓ Preconstruction Videos (Phase 1 North & South)





- ✓ Home page redesign

## ✓Phase 1 North and South Pages

Phase 1 North




[UNIVERSITY OF MISSISSIPPI](#)
[HOME](#)
[DASHBOARD](#)
[PROJECT PHASES](#)
[TASK FORCE UPDATES](#)
[PROJECT STATUS](#)
[COST SEARCH TOOL](#)
[CONTACT](#)

|                                                                                     |                                                                                                                  |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
|    | JULY 14, 2017<br>Phase 1 Undergrounding Community Meetings                                                       |
|    | JULY 14, 2017<br>Pre-Construction Video – Phase 1 North Undergrounding                                           |
|    | JULY 5, 2017<br>Underground Utilities Task Force Meeting Agenda & Back-Up – July 6, 2017                         |
|    | JUNE 22, 2017<br>Notice: Annual assessment for undergrounding improvements                                       |
|    | JUNE 27, 2017<br>Phase 2 Survey Work Begins                                                                      |
|   | JUNE 17, 2017<br>Town Council votes to begin undergrounding project                                              |
|  | JUNE 11, 2017<br>Palm Beach Daily News: "Palm Beach gets price for phase 1 of utility burial: \$10.4 million"    |
|  | JUNE 11, 2017<br>Palm Beach Daily News: "Town using switch cabinets and transformers for utility burial project" |
|  | JUNE 6, 2017<br>Undergrounding of Utilities Town Update                                                          |



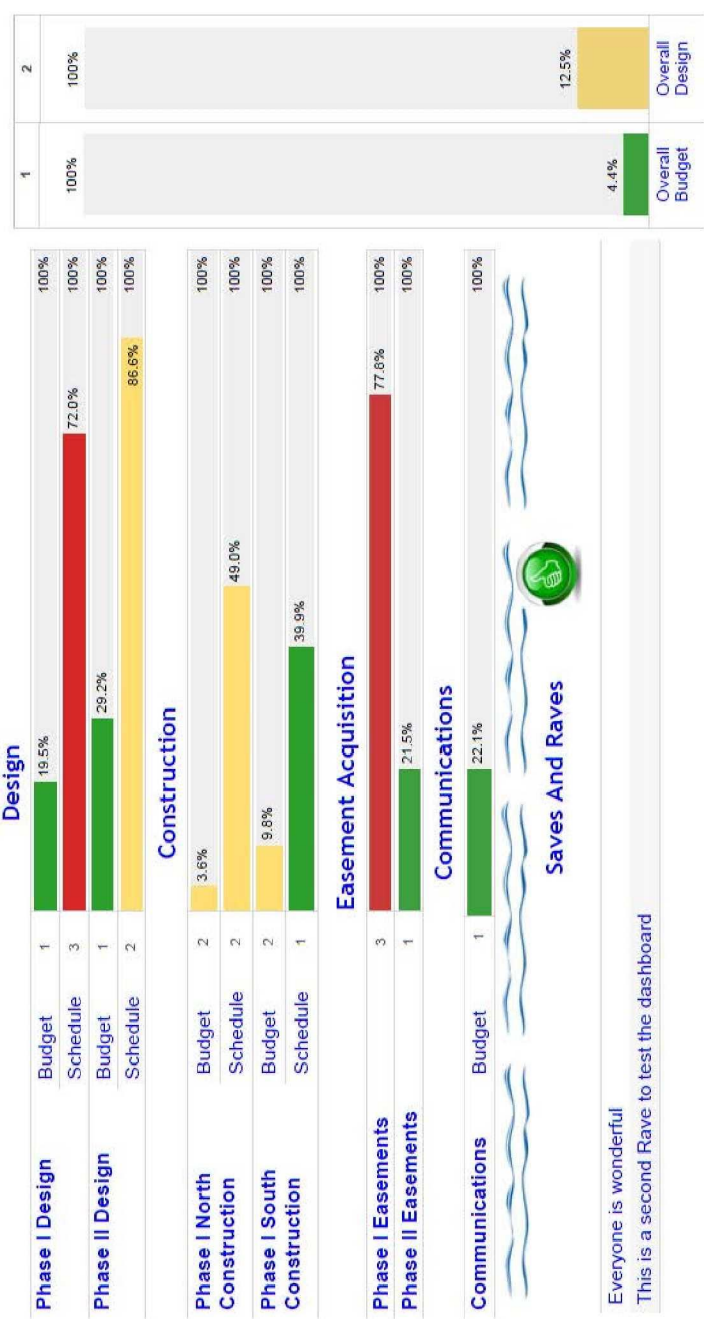
Updates

This is a second Issue to test the dashboard

This is an issue for display

Status Legend

Green (1) - On Task  
Yellow (2) - Caution  
Red (3) - Not On Task



Dashboard redesign and updates

### Phase 1 Construction

- ✓ Assist construction manager in communications (as needed)
- ✓ Emails, alerts, website updates

### Phase 2 Scope

- ✓ Resident notifications and updates (as needed)

### Undergrounding Project Overall

- ✓ Coordinate with Underground Utilities Project Manager
- ✓ Provided information and updates (as needed)

