

TOWN OF PALM BEACH

Information for Town Council Meeting on: December 10, 2019

To: Mayor & Town Council

Via: Kirk W. Blouin, Town Manager

From: **Steven Stern, Underground Utilities Project Manager**

Re: Utility Undergrounding Project Status Report

Date: November 26, 2019

I. Communications

Community Meetings:

- South Phases:
Date TBD after start of Phase 2 South construction.
- North Phases: Coffee with the Crew & Town Staff
Monday, December 2, 2019
Next Meeting, January 2, 2020

Litigation Update:

Kosberg/Scharf Class Certification:

On November 26, 2019, the Class Certification was denied by Judge James Nutt, Circuit Court.

PBT Real Estate, LLC vs Town of Palm Beach:

We are still awaiting the plaintiff's appeal ruling of the Eleventh Circuit Court.

II. Progress Summary:

Construction progress:

Phase 1 South Construction:

- As of November 26th, the final 3 of 55 condominium buildings are pending FPL conversion from the overhead to the underground system. These remaining locations are planned to be completed during the week of December 3rd.
- Pole removal activities will begin after these remaining conversions are complete.

Phase 2 North Construction:

- Phase 2 North construction is 62% complete.
- ATT and Comcast wire pulls and pedestal sets continue.

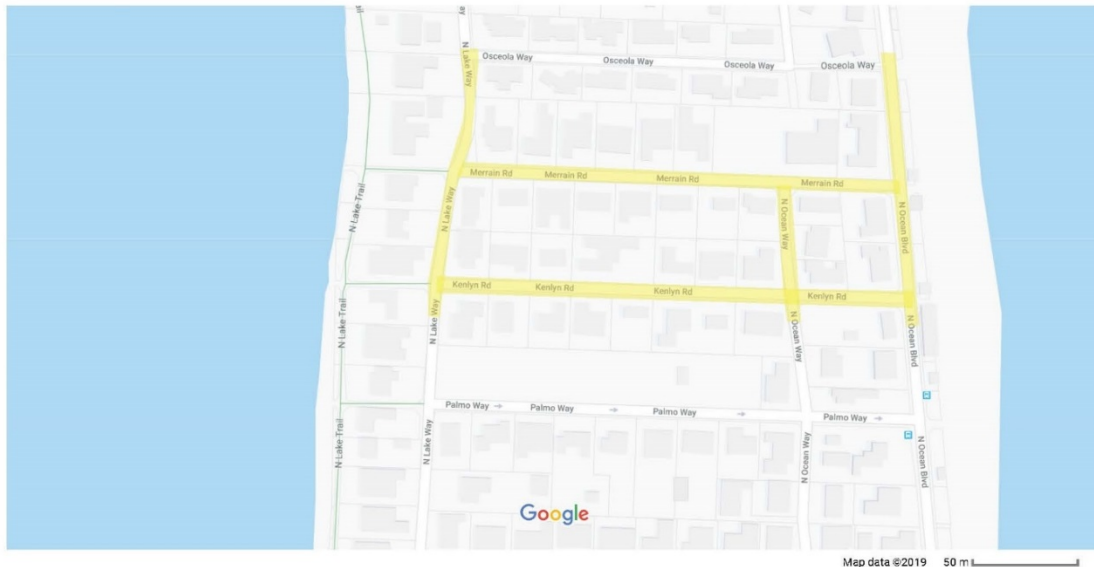
Phase 2 South Construction:

- Phase 2 South is transitioning to start of construction.

Phase 3 North Construction:

- Phase 3 North construction is 10% complete.
- The drilling crew are working within area #1, planned through end of 2019. Work area 1 is Merrain Road, Kenlyn Road and the adjacent north-south streets.

Phase 3 North / Work Area #1



Phase 3 South Construction:

- Bid package availability remains incomplete due to outstanding easements.

Design & Easement Progress:

Phase 2:

- Phase 2 South Design is 99% complete

Easement Status:

- Phase 2 South: 95% of easements recorded.

Phase 3:

- Phase 3 North Design is 98% complete
- Phase 3 South Design is 80% complete

Easement Status:

- Phase 3 North: 97% of easements approved.
One final easement is desired but not secured. A chicane is planned to serve 4 homes on the far west end of Mockingbird Trail.
- Phase 3 South: 80% of easements approved.
We are struggling to secure the remaining critical path easements along S. County Road and south of Worth Ave.

Phase 4:

- Phase 4 North Design is 65% complete
- Phase 4 South Design is 54% complete

Easement Status:

- Phase 4 North: 40% of easements approved
- Phase 4 South: 36% of easements approved

Phase 5:

- Phase 5 North Design is 33% complete
- Phase 5 South Design is 33% complete

Easement Status:

- Phase 5 North: Not Started
- Phase 5 South: Not Started

Phase 6:

- Phase 6 North Design is 1% complete
- Phase 6 South Design is 3% complete

Easement Status:

- Phase 6 North: Not Started
- Phase 6 South: Not Started

III. Financial Summary

The Undergrounding Utility Project Budget Summary within this month's report is updated to include the revised consulting engineer's Opinion of Probable Cost (OPC). The updated opinion is based on firm pricing and other actual costs realized through the first 25% of the Townwide program namely, Phases 1N, 1S, 2N, 2S & 3N . Using this information, the Town requested Kimley-Horn update the Opinion of Probable Cost for the overall Townwide program.

Mr. Kevin Schanen, P.E., Kimley-Horn, has provided the following memorandum describing the changes to the updated comprehensive program OPC in detail along with his presentation.

MEMORANDUM

To: Steve Stern

From: Kevin Schanen, P.E.
Kimley-Horn and Associates, Inc.

Date: November 27, 2019

Subject: Master Plan Opinion of Probable Cost Update Process – Town-Wide Undergrounding of Utilities Program

Prior to the Town embarking on the current Undergrounding program, a Master Plan was prepared. The original Master Planning process included the development of an Opinion of Probable Cost for the overall Undergrounding program. Currently the Town has received firm pricing for five of the fifteen project phase areas including Phases 1 North, 1 South, 2 North, 2 South, and 3 North. Construction, Engineering, and Legal Costs for these phases total \$31.1M which is approximately 13% above the current opinion of probable cost for the project. Based on this information, the Town requested that Kimley-Horn use this new information to update the opinion of probable cost for the overall program. The following is a description of the process Kimley-Horn performed to update the program costs.

1.0 Approach

The following elements were considered when updating the opinion of probable construction costs for each phase of the project:

- **Use of cost information from the first five phase areas:** Recent bid prices contained in the individual Guaranteed Maximum Price (GMP) for the first five phase areas were used to update the unit prices that were estimated in developing the original opinion of probable cost. These unit prices are based on the linear footage of overhead infrastructure to be converted underground in each phase.
- **Use of a consistent unit cost application methodology:** Since final detailed designs for the remainder of the program phases have not yet been completed, the updated unit prices were applied to the remaining phases based on the linear footage of overhead infrastructure that remains to be put underground in each phase. One exception to this is Phase 4 South. A preliminary design was received from FPL for this area and was quantified to better refine the unit costs in the Mid-Town area.

In general, much more information related to the program is available now than existed at the time of the master planning effort. This new information is being used to update the opinion of probable cost for the program.

2.0 Phase Area Line Item Unit Costs

Based on the actual unit prices and quantities received for the first five phase areas, our opinion of probable costs for each future phase area was updated. The total costs received for the first five phase areas were broken down into the following line items based on values contained in the individual GMPs and from invoices received by FPL, AT&T and Comcast. These costs were then divided by the length of overhead pole-line feet converted within each phase area and then averaged where appropriate to develop representative unit costs per pole-line foot converted that were applied to the future phase areas where design is not complete. A summary of each line item category outlined in the opinion of probable cost is below:

<i>Line Item Category</i>	<i>Unit Costs Included in the Line Item Category</i>
FPL Overhead to Underground Conversion	General Conditions related to electrical infrastructure installation (Mobilization, demobilization, Maintenance of Traffic, Bonds and Insurance, Pre-construction documentation, survey layout and record drawings), construction management fees, and installation of FPL provided conduit in Town right-of-way, cabling, and equipment
AT&T Overhead to Underground Conversion	General Conditions related to AT&T conduit and pull box installation (Mobilization, demobilization, Maintenance of Traffic, Bonds and Insurance, Pre-construction documentation, survey layout and record drawings), construction management fees, and installation of conduit in public Town right-of-way, vaults, and pull boxes
Comcast Overhead to Underground Conversion	General Conditions related to Comcast installation (Mobilization, demobilization, Maintenance of Traffic, Bonds and Insurance, Pre-construction documentation, survey layout and record drawings), construction management fees, and installation of conduit in Town right-of-way
Roadway and Private Property Restoration	Asphalt trench repair, sodding/grassing, bore pit repair, driveway restoration, equipment screening/landscaping, curb repair for conduit installation, right of way and private property restoration, construction management fees, and restoration after utility pole removal demolition
FPL Direct Cost	Provision of electrical infrastructure materials, "Make-ready" costs for transition to underground system, overhead infrastructure removal and demolition
ATT Direct Costs	Provision and installation of all AT&T equipment and cabling within Town installed conduits, service conversions, and removal of overhead AT&T infrastructure

<i>Line Item Category</i>	<i>Unit Costs Included in the Line Item Category</i>
Comcast Direct Cost	Provision and installation of all Comcast vaults, equipment and cabling within Town installed conduits, service conversions, and removal of overhead Comcast infrastructure
FPL Service Conduit	Installation of FPL provided service cable/conduit on private property
ATT/Comcast Service Conduit	Installation of ATT/Comcast service conduit in the right of way and on private property as applicable
Street Light Replacement Costs	Impacted street light replacement and street light electrical service installation
Engineering/Permitting/Surveying	Estimated fees for engineering design and survey, easement sketch and legal descriptions, and permitting fees
Construction Administration	Estimated fees for construction engineering observation and Town support during construction
Legal Fees	Legal fees for easement acquisitions

In addition to the above effort, because we have received preliminary design information for the Phase 4 South area, preliminary quantities were able to be developed for this phase. Unit cost information received in the individual GMPs were applied to these quantities to develop unit costs per pole-line-foot for Phase 4 South. These unit costs per pole-line-foot were applied to both Phases 4 South and 5 South because these areas are very similar.

3.0 Quantity Estimation

To develop reasonably accurate quantity estimates for each phase of construction, GIS shape files developed during the Master Plan process for roadways, parcels, existing overhead utility locations, and other infrastructure project information were imported into AutoCAD drafting software. Aerial photography imported into AutoCAD was used to confirm the accuracy of the GIS data. Based on this GIS and AutoCAD data, the following quantities were developed for each phase:

- Length of existing overhead utilities to be converted underground
- Number of parcels per phase
- Quantity of impacted street lights

4.0 Credits

The following credits have been considered in the updated opinion of probable cost.

- **Florida Power and Light Government Adjustment Factor (GAF) Waiver Credit:** In accordance with the FPL Tariff, the undergrounding program qualifies for a GAF waiver of 25%.

The GAF waiver credit amount has been estimated based on the average GAF waiver per pole-line-foot that the Town has received for the first five phases.

- **FEMA Pre-Mitigation Grant:** The Town was awarded a grant in the amount of approximately \$8.5M by FEMA. This credit has been applied to Phase 5 as the funds are specifically earmarked for that phase. While future grants are a possibility, we have not included any additional grants in the credits.

5.0 Inflation and Program Contingency

The Construction Cost Index (CCI) as calculated by Engineering News Record was originally used to estimate an average inflation rate for this program. The CCI tracks the change in price for a specific combination of construction labor, steel, concrete, cement, and lumber using data from 20 Cities in the United States. The CCI is similar in concept to the well-known CPI (Consumer Price Index), which tracks the consumer prices for a representative base of goods and services for urban consumers, but is considered more reflective of the construction industry and construction labor rates.

The average yearly historical CCI's were updated to include published information between September 2016 and October 2019. These values were added to the CCI's between January 1990 – August 2016 that were included in the original opinion of probable cost. The average percentage increase of construction costs during the time between January 1990 and October 2019, as well as the time between the years 2006 and 2019, was 3.1% per annum. This is 0.1% higher than what was contained in the original master plan opinion of cost. We did not feel this change was significant enough to warrant straying from the original rate of 3%. The primary reason behind this is that the slight increase is being completely driven by the inflation rate in 2017. This single year experienced the highest inflation rate since 2008 and we felt that this rapid increase has already been captured in the unit rates we received in the GMPs for the first five phases. For this reason, we felt that we have adequately captured the spike in costs and applied to them to future phases of the program.

It should be noted that inflation is difficult to accurately project into the future and historical trends are not necessarily indicative of future inflation rates. Month-to-month or year-to-year changes in inflation rates could be significantly more or less than the percentages assumed for this opinion of cost.

The original master plan opinion of probable cost carried a contingency of 5 percent on soft costs (Engineering / Legal) and 9.25% on construction costs (Construction / Utility Direct Costs). Based on the GMPs that have been received and the contingencies that have been carried by the Town for each of those phases (\$200,000 per phase, or approximately 3%), we recommend that a contingency of 5% be carried forward for the phases that have not yet gone to bid.

6.0 Updated Opinion of Probable Costs

Based on the updates described in the previous sections, the updated opinion of probable cost is presented in the below table, broken down per phase.

TOWN OF PALM BEACH						
Engineer's Conceptual Opinion of Probable Cost for Undergrounding - November 2019 Update						
Individual Phase Opinion of Probable Cost Summary						
Item No.	Phase		Phase Cost-- Today's dollars	Phase Cost -- Considering Inflation	Contingency	Total
2	Phase 1 North		\$ 5,727,000	\$ 5,727,000	\$ -	\$ 5,730,000
3	Phase 1 South*		\$ 7,180,000	\$ 7,180,000	\$ -	\$ 7,180,000
4	Phase 2 North		\$ 5,291,000	\$ 5,291,000	\$ 200,000	\$ 5,490,000
5	Phase 2 South		\$ 7,775,000	\$ 7,775,000	\$ 200,000	\$ 7,980,000
6	Phase 3 North		\$ 5,546,000	\$ 5,546,000	\$ 200,000	\$ 5,750,000
7	Phase 3 South		\$ 8,953,000	\$ 9,198,000	\$ 450,000	\$ 9,650,000
8	Phase 4 North		\$ 6,355,000	\$ 6,528,000	\$ 320,000	\$ 6,850,000
9	Phase 4 South		\$ 7,776,000	\$ 7,987,000	\$ 380,000	\$ 8,370,000
10	Phase 5 North		\$ 7,898,000	\$ 8,337,000	\$ 410,000	\$ 8,750,000
11	Phase 5 South		\$ 10,307,000	\$ 10,882,000	\$ 530,000	\$ 11,410,000
12	Phase 6 North		\$ 6,504,000	\$ 7,037,000	\$ 340,000	\$ 7,380,000
13	Phase 6 South		\$ 11,809,000	\$ 12,799,000	\$ 620,000	\$ 13,420,000
14	Phase 7 North		\$ 6,545,000	\$ 7,367,000	\$ 390,000	\$ 7,760,000
15	Phase 7 South		\$ 6,875,000	\$ 7,738,000	\$ 410,000	\$ 8,150,000
16	Phase 8		\$ 11,879,000	\$ 13,771,000	\$ 730,000	\$ 14,500,000
	TOTAL		\$ 116,400,000	\$ 123,200,000	\$ 5,180,000	\$ 128,400,000
* Cost of Lake Worth Segment excluded from Phase 1 South since bond dollars cannot be spent in a municipality other than Palm Beach					FEMA Grant	\$ (8,500,000)
					Total	\$ 119,900,000

As is shown in the above table the total phase costs, exclusive of contingency and inflation, are approximately 13% higher than the current opinion of probable cost of \$103.5M. While individual phases are affected in different ways based on the details of the approach described in the above sections, the overall phase costs are trending similarly to what has been experienced in the first five phase areas of the program.

7.0 Cost Drivers

Primary reasons why the updated opinion of probable cost is higher than the original master plan conceptual opinion of probable cost include the following:

- **Construction Market Conditions:** The most significant cost driver is the state of the South Florida Construction market. Economic conditions are very good and contractors are very busy. There is a lot of work in the market and this is combining with a labor shortage which drives up construction costs.
- **Increase in the Cost of Materials:** We have heard from both utility owners and contractors that metals, concrete, and asphalt prices have all risen. Comcast has told us directly that their cable and equipment costs have risen since the beginning of the program which will ultimately yield a \$400K impact to the program for Comcast alone based on current projections.
- **Final Easement Locations:** Initial equipment design is based on the most economical layout. During the easement process, the vast majority of the equipment is requested by property owners to be placed in locations that are less than ideal from a cost perspective. For example, switch equipment at the south end of Phase 3 North was moved south to a right of way location

because we could not secure easement space near the most economical location. This single move cost an additional \$69,800 over the originally planned location. The relocation of easements must be accommodated or the project will require obtaining easements through an eminent domain proceeding.

The above three factors are the most significant contributors to the increase in costs over the original opinion of probable cost for the program. We believe that these three factors combine to create an approximate increase of \$8M over the original opinion of cost, exclusive of inflation and contingency factors.

The factors below are less significant individually, but they combine to create an approximate increase of \$5M over the original opinion of cost.

- **AT&T Fiber:** The current opinion of probable cost considered the deployment of an AT&T Fiber system and associated conduit subsidies that AT&T had once offered. When AT&T withdrew this offer and the program reverted to the “like for like” copper system, there was a \$1.7M cost impact to the program.
- **Street Light Replacement:** Street lights were considered for replacement in the original opinion of cost **only** on the main arterial streets. The direction has since changed to replace all street lighting in the Town that is currently mounted to utility poles. This has a cost impact of approximately \$500K.
- **Vista Switches:** The original master plan contemplated a 90/10 ratio of standard versus Vista switches. The easement acquisition for switches has been particularly challenging because they require a large easement space. In many situations, space constraints and resident conditions have required the use of Vista’s in lieu of standard switches. This has resulted in a 67/33 ratio of standard versus vista switches. We anticipate this trend will continue which we project will have a \$425K impact to the program.
- **Easement Acquisition/Legal Costs.** Easement acquisition costs are trending about 20% higher than originally anticipated by the original opinion of probable cost. This is largely due to the number of property owners we need to reach and the number of times we need to start over when an easement is denied by a property owner. There has been no reliable way to predict exactly how any phase will go with regards to easement acquisition. We have seen a fair bit of uniqueness to the communities between the phases with easement acquisition in some areas being harder than in others. There is good news in that acquisition processes are improving, and costs today are far lower than what they were in Phase 1. We project the increase in acquisition costs will have an approximate impact of \$700K to the program.
- **Easement Abandonment:** Related to easement acquisition is the recent decision to fund the abandonment process for rear easements where the property owner has granted a new easement for the program. These costs were not included in the original opinion of probable construction cost and have a \$220K impact to the program.
- **Landscaping:** The original opinion of probable construction cost considered only providing small shrubs on one side of the transformer that faced the right of way. To finalize easements with property owners, or satisfy individual demands, we have needed to provide more plantings than originally anticipated. We project this will result in an increase of \$900K over the total program.

- **Unmetered Services:** The original master plan contemplated that existing street lighting and traffic signals that are currently being paid for by the Town on an energy basis would continue in that fashion. FPL has recently indicated that a change in the tariff will now require a metered service entrance once these services are converted from the overhead system. We project this will result in an increase in costs between \$100K to \$300K.
- **Non-Code Compliant Service Entrances:** The original opinion of probable construction cost excluded non-code compliant service entrance correction costs. At the time, the Town had taken the position that these costs would be borne by the property owner. However, in an effort to control the project schedule and complete the conversions in a timely manner the Town has elected to perform this work when it arises. This has not been an extensive problem as we have come across only three of these situations in the first five phases. However, correcting service entrance issues can be expensive, especially in the commercial areas. Costs associated with this have ranged from \$3K to \$20K per location.
- **Three-Phase to Single-Phase Conversions:** We have come across several homes that have three-phase service but do not necessarily need three phase service. Property owners in a number of these locations have said they would be willing to grant an easement for a single-phase transformer but not a three-phase transformer. When we run out of options to place a three-phase transformer in the area, a three-phase to single-phase conversion is our option of last resort. Costs related to these conversions generally range between \$3,000 and \$11,000 per location depending on the how extensive the conversion.



Opinion of Probable Cost Update

- Background
- Updated Opinion of Probable Cost
- Cost Drivers



Program Costs to Date

Current Program Cost Comparison

Phase Areas	Current OPC	Actual Costs	Variance
Phases 1N, 1S, 2N, 2S, 3N	\$27.5M	\$31.1M	13%



Opinion of Probable Cost Update

Updated Opinion of Probable Cost Summary

Program Costs (Today's Dollars)	\$116,400,000
Contingency	\$5,200,000
Inflation (Projected)	\$6,800,000
Grant Funding (Rounded)	(\$8,500,000)
Total Program Costs (Rounded)	\$119,900,000



Opinion of Probable Cost Update

Cost Drivers

- Construction Market Conditions
- Material price increases
- Final Easement Locations
- AT&T Fiber
- Street Lighting
- Unmetered Services
- Vista Switches
- Easement Acquisition
- Easement Abandonment
- Landscaping
- Non-Code Compliant Service Entrances
- Three-Phase conversions



Questions?



Underground Utility Project Monthly Progress Report December 2019

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Dashboard – Phase 1, 2, 3 Construction and Phase 2, 3, 4, 5, 6 Design

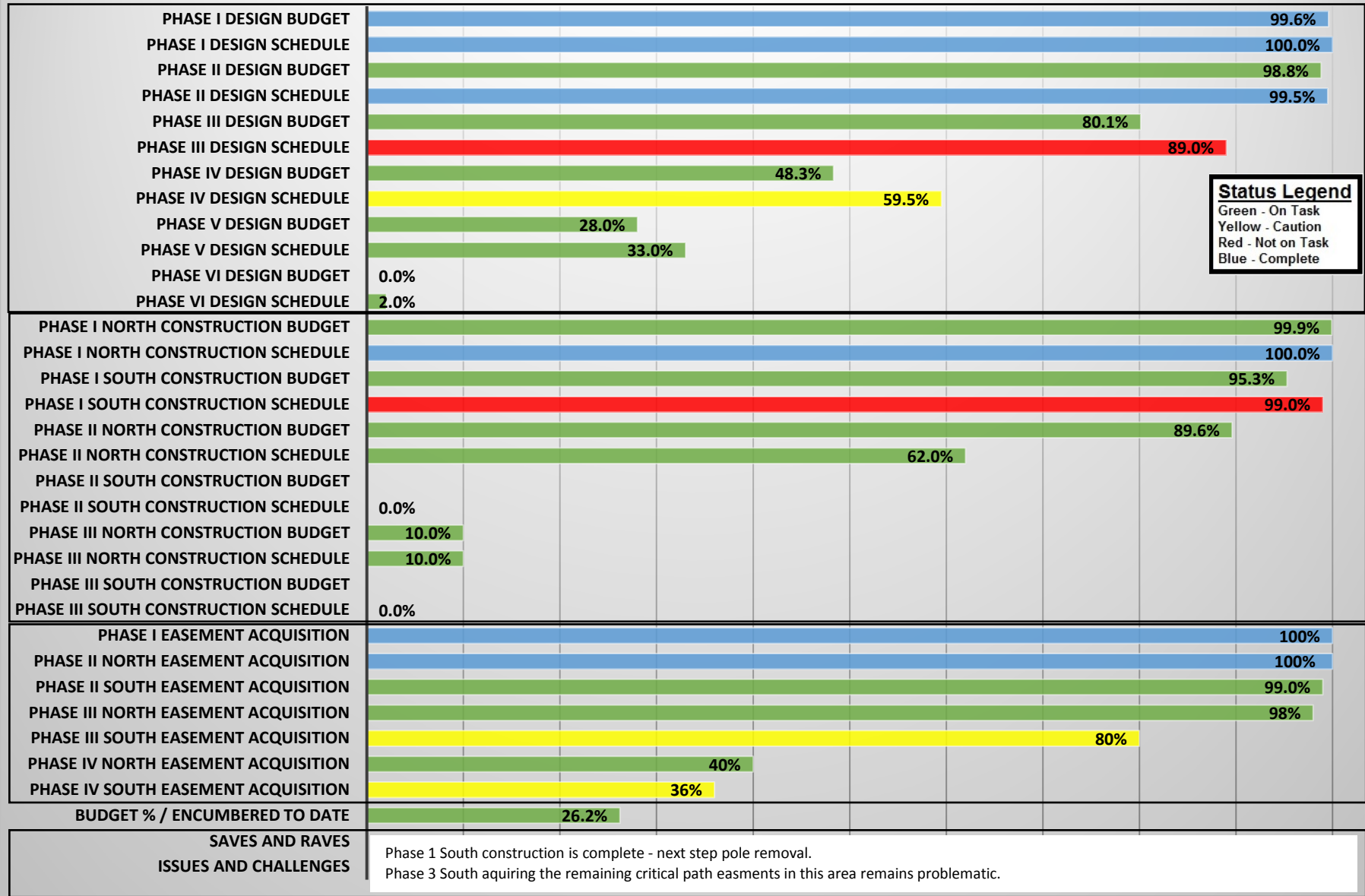
1. Townwide Undergrounding - Phasing & Sequencing Program Map
2. Kimley-Horn - Design Progress Reports - Phase 2 - 6
3. Kimley-Horn - Design Phase 2 - 6 Gantt Charts
4. Burkhardt - Executive Summary & Schedule – Phase 2N & 3N
5. Whiting Turner - Executive Summary & Schedule – Phase 1S
6. Project Financial Report
7. Interest Rate Forecast

Dashboard Notes:

- Overall Budget represents the percentage encumbered to date versus the total project budget of \$119.9 million.

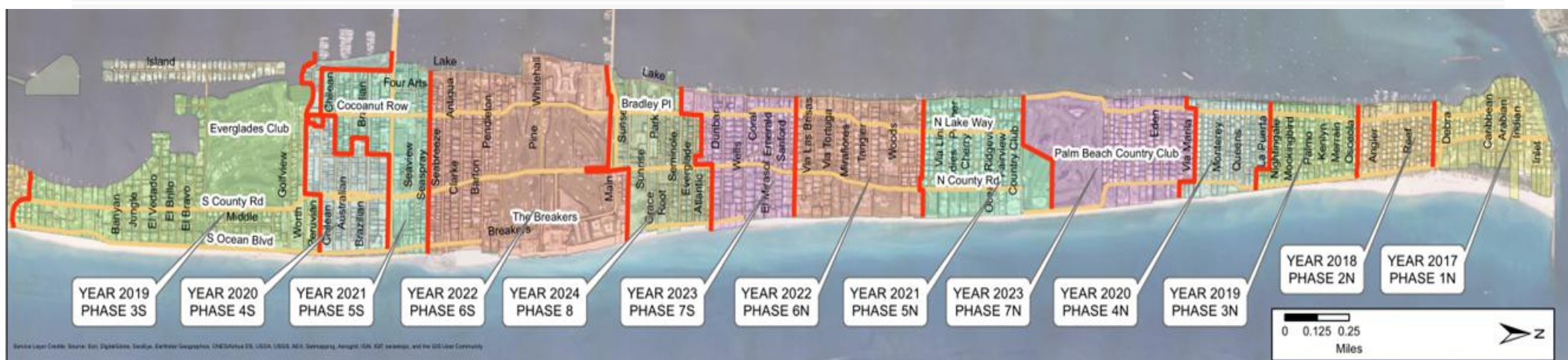
Town of Palm Beach - Underground Utility Project Dashboard - Dec '19

0.0% 10.0% 20.0% 30.0% 40.0% 50.0% 60.0% 70.0% 80.0% 90.0% 100.0%





Phasing and Sequencing





Town-Wide Undergrounding - Phase 2 Design
KHA Project #044063202
November 2019 Progress Report
Period: October 20, 2019 to November 21, 2019

I. Scope Update

A. General

- Schedule: Project schedule progress is shown below.
 - Phase 2 North Design is 100% complete
 - Phase 2 South Design is 99% complete
- Budget: Project is on budget as of October 15, 2018
 - Phase 2 North Design is at 99% of total task budget
 - Phase 2 South Design at 99% of total task budget
- Easement Status
 - Phase 2 North: 100% of easements approved
 - Phase 2 South: 95% of easements approved

B. Detailed Design Phase

- Continued coordination with Comcast, AT&T and FPL to finalize Network Design Plans for Phase 2 South.
- Continued resident coordination for easement acquisition in Phase 2 South.
- Conduct and attend Design Progress Meeting and develop/distribute Meeting Minutes
- Completed the Phase 2 South GMP development process
- Attendance at Progress Meeting with Town and Utility Owners
- Attendance at Subconsultant Coordination Meetings

II. Upcoming Activities (November 22, 2019 – December 21, 2019)

A. Detailed Design Phase

- Continue resident meetings/conference calls to discuss easements in Phase 2 South.
- Progress Meeting Attendance.



Town-Wide Undergrounding - Phase 3 Undergrounding
KHA Project #044063215
November 2019 Progress Report
Period: October 20, 2019 to November 22, 2019

I. Scope Update

A. General

- Schedule: Project schedule progress is shown below.
 - Phase 3 North Design is 98% complete *
 - Phase 3 South Design is 80% complete *
- Budget: Project is on budget as of October 15, 2019
 - Phase 3 North Design is at 93% of total task budget
 - Phase 3 South Design at 83% of total task budget
- Easement Status
 - Phase 3 North: 97% of easements approved
 - Phase 3 South: 80% of easements approved

* Phase 3 South is currently behind schedule.

B. Detailed Design Phase

- Continued Subconsultant/utility owner coordination
- Continued Progress on development of Bid Plans for Phase 3 South.
- Continued review and comment on FPL, ATT and Comcast Design Plans
- Received, reviewed and met with ATT and Comcast regarding the Phase 3 South area to coordinate the design and provide updates based on easement progress.
- Progress Meeting Attendance.
- Progress on Phase 3 South Landscape plans.
- Continued development of Phase 3 North and South easement exhibits and submittal to Town.
- Site meetings with property owners to discuss easement requests in Phase 3 North and South.
- Development of legal sketches and descriptions for Phases 3 North and South.
- Meetings with Town to discuss program status
- Meetings with Everglades Club to discuss easement needs

II. Upcoming Activities (November 23, 2019 – December 22, 2019)

A. Detailed Design Phase

- Continued Subconsultant/utility owner coordination
- Continued Progress on development of Bid Plans for Phase 3 South.
- Continued Easement meetings with property owners – Phases 3 North and South
- Continued coordination with FPL, AT&T and Comcast to complete the Phase 3 South design
- Progress Meeting Attendance



Town-Wide Undergrounding - Phase 4 Undergrounding

KHA Project #044063219

November 2019 Progress Report

Period: October 20, 2018 to November 22, 2019

I. Scope Update

A. General

- **Schedule:** Project schedule progress is shown below.
 - Phase 4 North Design is 65% complete
 - Phase 4 South Design is 54% complete
- **Budget:** Project is on budget as of September 15, 2019
 - Phase 4 North Design is at 61% of total task budget
 - Phase 4 South Design at 53% of total task budget
- **Easement Status**
 - Phase 4 North: 40% of easements approved
 - Phase 4 South: 36% of easements approved.

B. Detailed Design Phase

- Subconsultant coordination related to Phase 4 Undergrounding
- Completion of soft dig field utility investigation in Phase 4 South.
- Continued coordination with utility owners to receive design information.
- Continued development of Equipment Locations and Conduit Plans for Phase 4 North and South.
- Performed field work to obtain information for equipment placement based on easement meetings with property owners.
- Review of FPL and AT&T Conduit and Equipment Plans, coordination with FPL and AT&T regarding design modifications.
- Development and delivery of easement exhibits to the Town for Phases 4 North and South.
- Progress Meeting Attendance
- Site visits and meetings with property owners to discuss easement requests

II. Upcoming Activities (November 23, 2019 – December 22, 2019)

A. Detailed Design Phase

- Continued coordination with utility owners to refine the design.
- Review Comcast design for Phase 4 South.
- Continued development and submittal of easement exhibits for Phases 4 North and South.
- Continued development of Equipment Location and Conduit Plans for Phases 4 North and South.
- Meetings with property owners to discuss easement requests.
- Progress Meeting attendance.



Town-Wide Undergrounding - Phase 5 Undergrounding

KHA Project #044063229

November 2019 Progress Report

Period: October 26, 2019 to November 25, 2019

I. Scope Update

A. General

- **Schedule:** Project schedule progress is shown below
 - Phase 5 North Design is 33% complete
 - Phase 5 South Design is 33% complete
- **Budget:** Project is on budget as of November 15, 2019
 - Phase 5 North Design is at 23% of total task budget
 - Phase 5 South Design is at 24% of total task budget
- **Easement Status**
 - Phase 5: N/A, will provide status when this work begins

B. Detailed Design Phase

- Awaiting preliminary equipment locations from FPL
- Coordinated with utility companies, sub-consultants, and Town
- Led coordination meetings with sub-consultants

II. Upcoming Activities (November 26, 2019 – December 25, 2019)

A. Detailed Design Phase

- Await preliminary equipment locations from FPL
- Develop equipment location plans
- Coordinate with utility companies, sub-consultants, and Town
- Lead coordination meetings with sub-consultants



Town-Wide Undergrounding - Phase 6 Undergrounding

KHA Project #044063247

November 2019 Progress Report

Period: October 26, 2019 to November 25, 2019

I. Scope Update

A. General

- Schedule: Project schedule progress is shown below
 - Phase 6 North Design is 1% complete
 - Phase 6 South Design is 3% complete
- Budget: Project is on budget as of November 15, 2019
 - Phase 6 North Design is at 1% of total task budget
 - Phase 6 South Design is at 2% of total task budget
- Easement Status
 - Phase 6: N/A, will provide status when this work begins

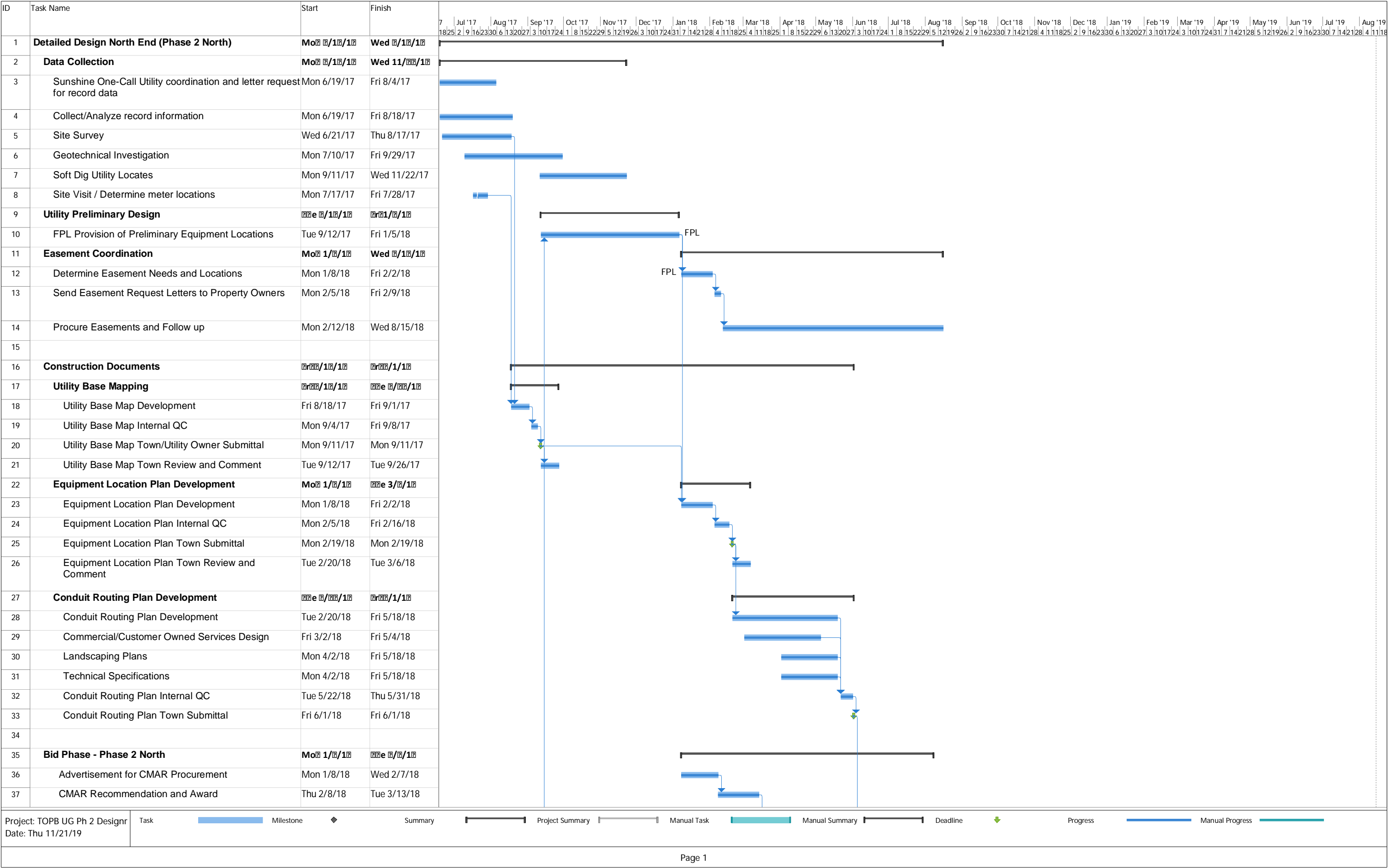
B. Detailed Design Phase

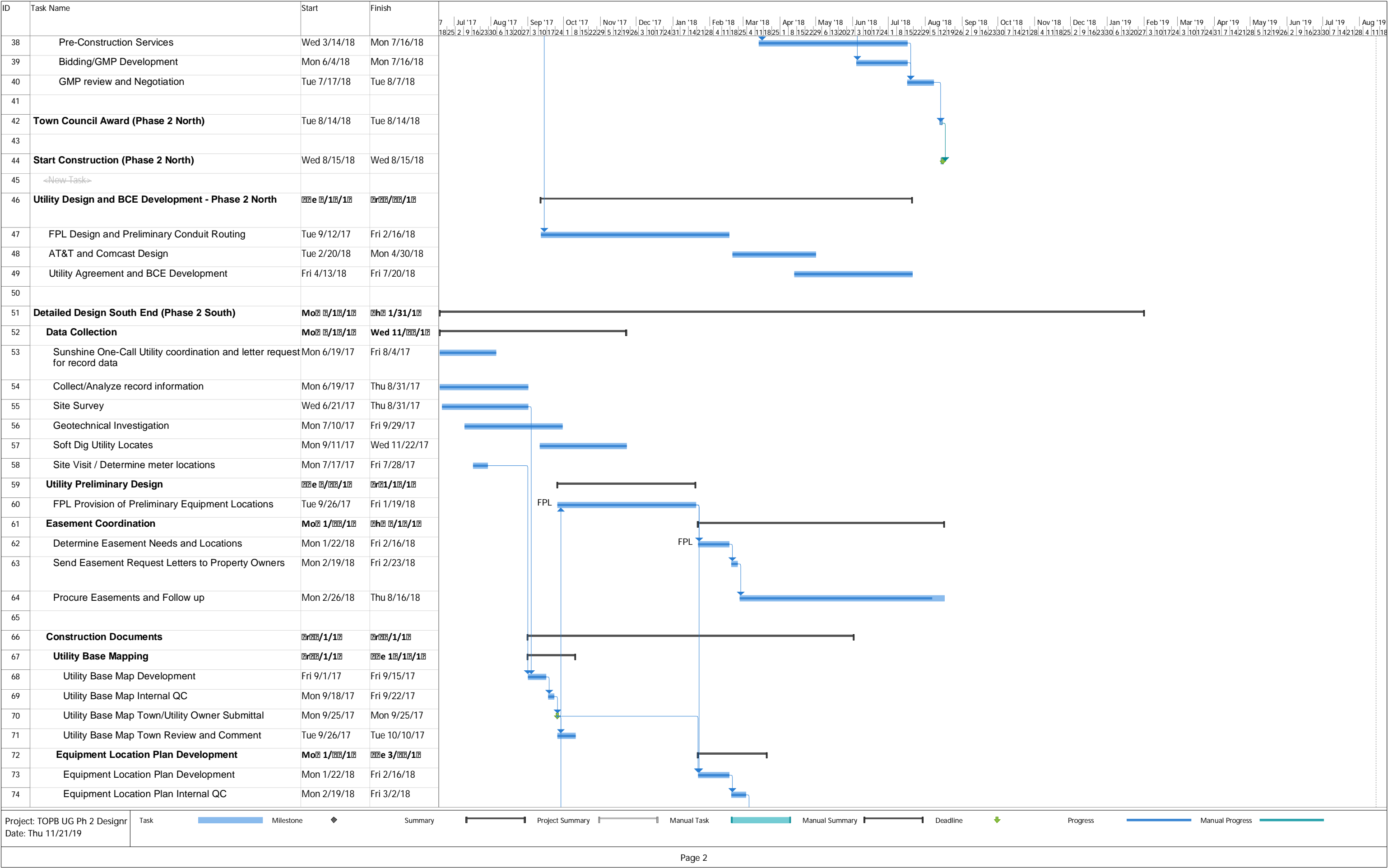
- Surveyed project sites
- Located electric meters
- Coordinated with utility companies, sub-consultants, and Town
- Led coordination meetings with sub-consultants

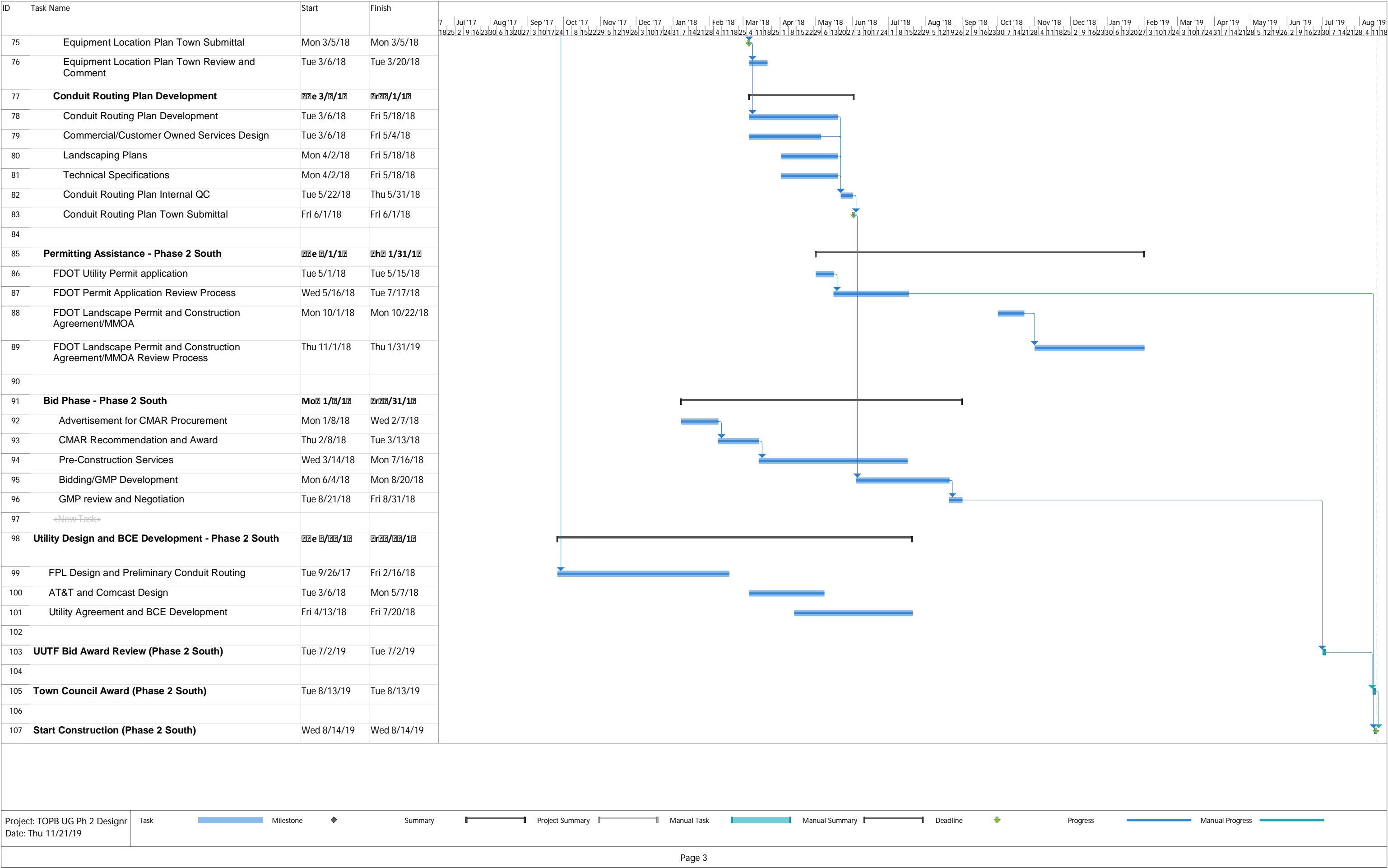
II. Upcoming Activities (November 26, 2019 – December 25, 2019)

A. Detailed Design Phase

- Survey project sites
- Locate electric meters
- Research existing easements
- Coordinate with utility companies, sub-consultants, and Town
- Lead coordination meetings with sub-consultants







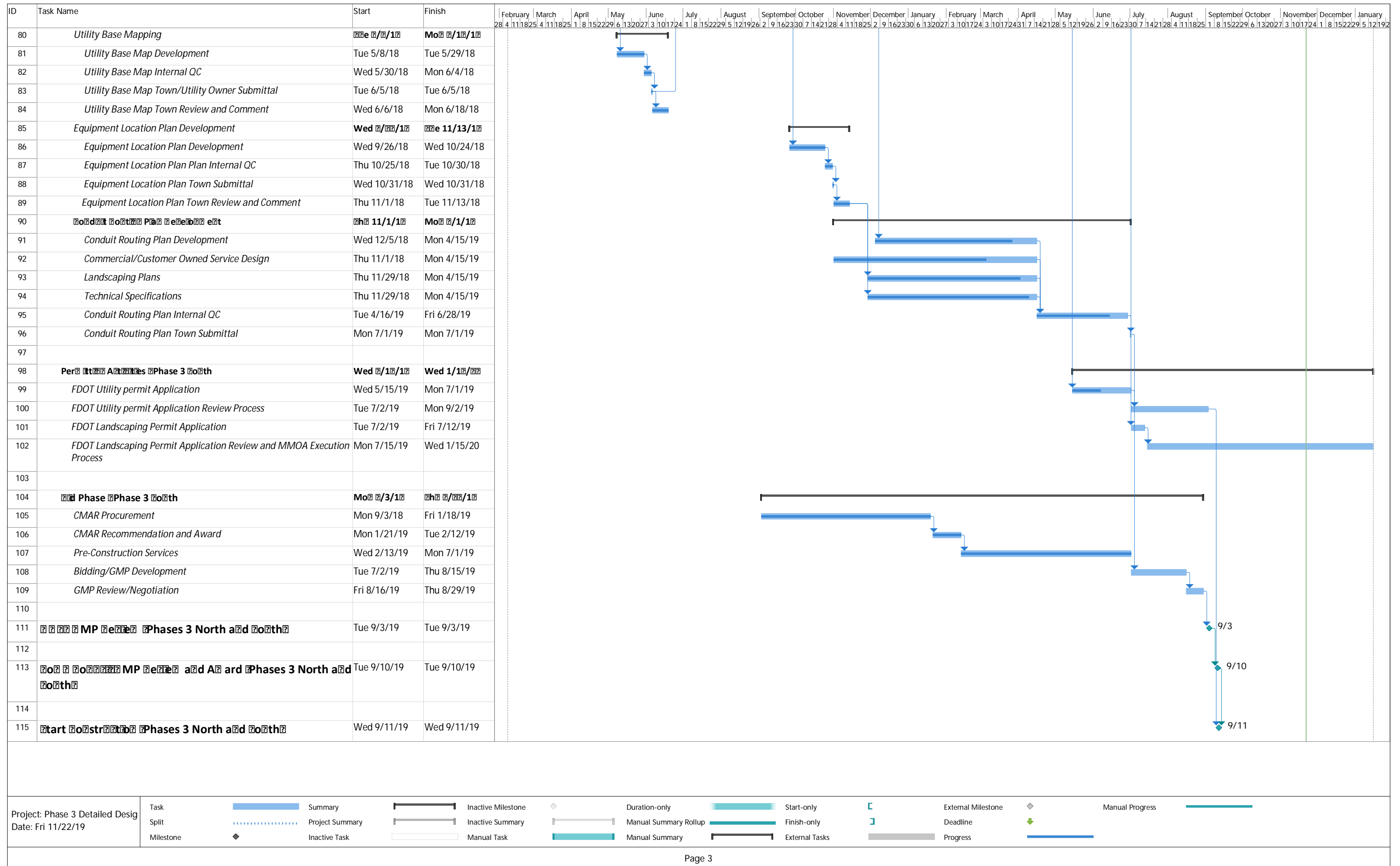


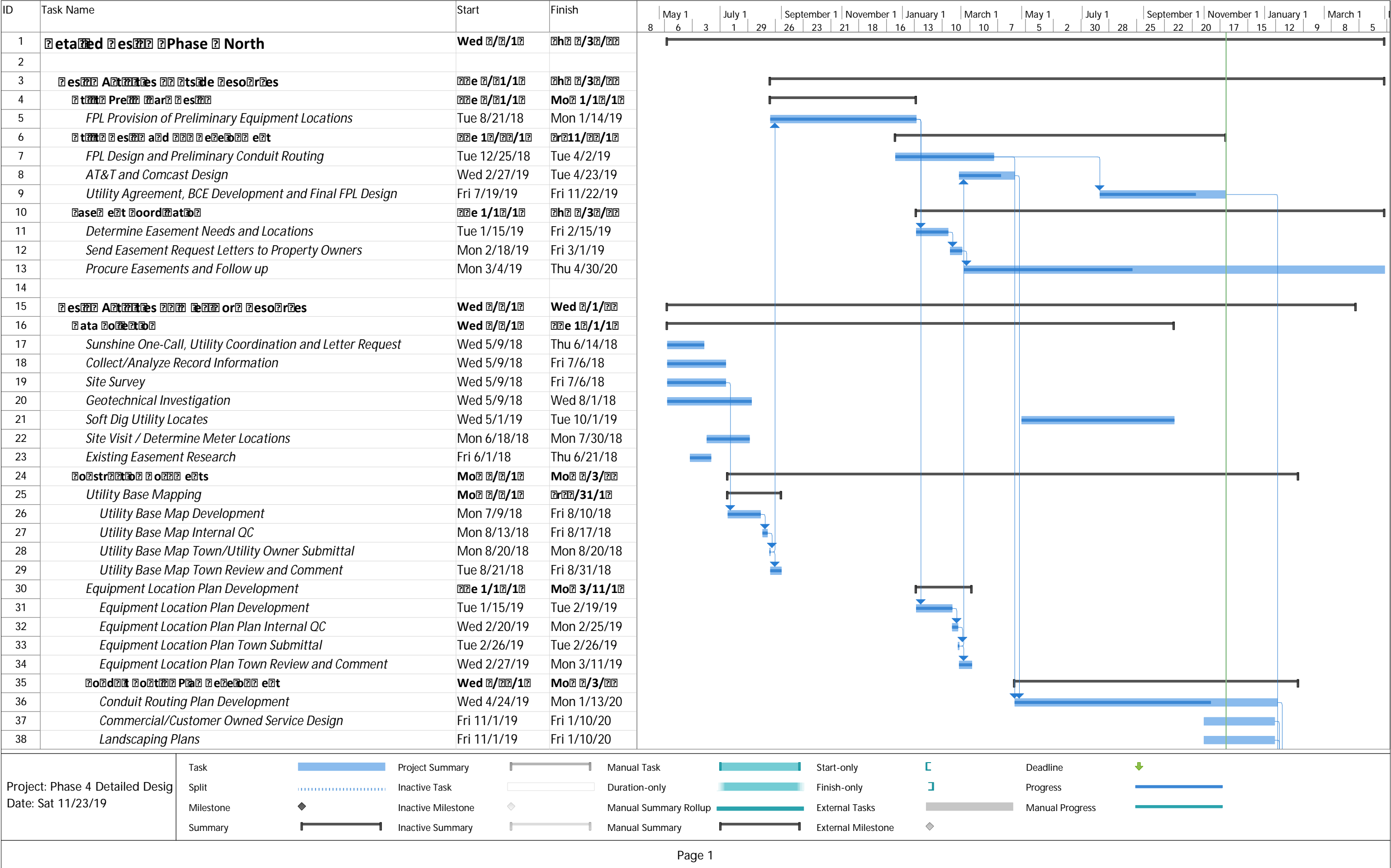
ID	Task Name	Start	Finish	
41	Conduit Routing Plan Town/CMAR Submittal	Wed 5/1/19	Wed 5/1/19	
42				
43	Phase 3 North	Mon 8/3/18	Wed 8/16/18	
44	CMAR Procurement	Mon 9/3/18	Fri 11/2/18	
45	CMAR Recommendation and Award	Tue 11/13/18	Tue 11/13/18	
46	Pre-Construction Services	Wed 11/14/18	Fri 5/31/19	
47	Bidding/GMP Development	Thu 5/2/19	Tue 6/4/19	
48	GMP Review/Negotiation	Wed 6/5/19	Tue 6/18/19	
49				
50	Milestones Phases 3 North and South	Tue 7/2/19	Tue 7/2/19	
51				
52	Milestone MP release and Award Phases 3 North and South	Tue 7/9/19	Tue 7/9/19	
53				
54	Start Construction Phases 3 North and South	Wed 7/10/19	Wed 7/10/19	
55				
56	Detailed Design Phase 3 South	Thu 8/2/18	Wed 1/17/19	
57				
58	Resources Activities Outside Resources	Mon 8/20/18	Fri 8/31/18	
59	Utility Preliminary Design	Mon 8/20/18	Fri 8/24/18	
60	FPL Provision of Preliminary Equipment Locations	Mon 6/25/18	Tue 9/25/18	
61	Utility Design and Preliminary Conduit Routing	Wed 8/22/18	Mon 8/13/18	
62	FPL Design and Preliminary Conduit Routing	Wed 9/26/18	Tue 12/4/18	
63	AT&T and Comcast Design	Wed 10/17/18	Mon 12/17/18	
64	Utility Agreement, BCE Development and Final FPL Design	Wed 12/19/18	Mon 7/15/19	
65	Easement Coordination	Wed 8/22/18	Fri 8/31/18	
66	Determine Easement Needs and Locations	Wed 9/26/18	Tue 10/30/18	
67	Send Easement Request Letters to Property Owners	Wed 10/31/18	Mon 11/12/18	
68	Procure Easements and Follow up	Tue 11/13/18	Tue 7/30/19	
69				
70	Resources Activities Before or Resources	Thu 8/2/18	Wed 1/17/19	
71	Data Collection	Thu 8/2/18	Thu 11/1/18	
72	Sunshine One-Call, Utility Coordination and Letter Request	Thu 2/8/18	Fri 3/16/18	
73	Collect/Analyze Record Information	Thu 2/8/18	Fri 4/6/18	
74	Site Survey	Thu 2/8/18	Mon 5/7/18	
75	Geotechnical Investigation	Tue 5/1/18	Wed 8/1/18	
76	Soft Dig Utility Locates	Fri 6/1/18	Thu 11/1/18	
77	Site Visit / Determine Meter Locations	Fri 3/16/18	Fri 4/27/18	
78	Existing Easement Research	Mon 2/19/18	Fri 3/16/18	
79	Construction Documents	Fri 8/2/18	Mon 8/1/18	

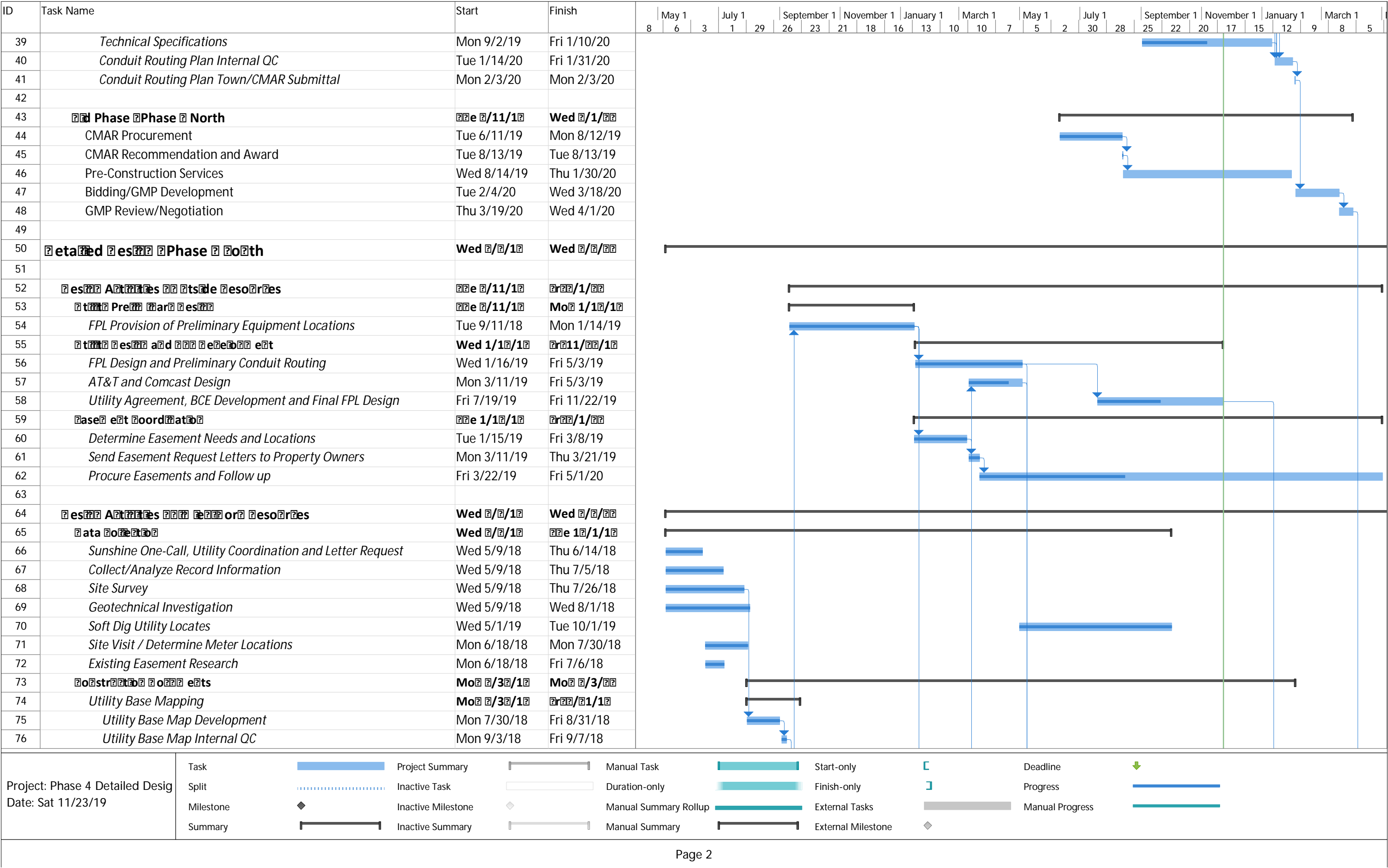
Project: Phase 3 Detailed Desig
Date: Fri 11/22/19

- Task
- Split
- Milestone
- Summary
- Project Summary
- Inactive Task
- Inactive Milestone
- Inactive Summary
- Manual Task
- Duration-only
- Manual Summary Rollup
- Manual Summary
- Start-only
- Finish-only
- External Tasks
- External Milestone
- Deadline
- Progress
- Manual Progress

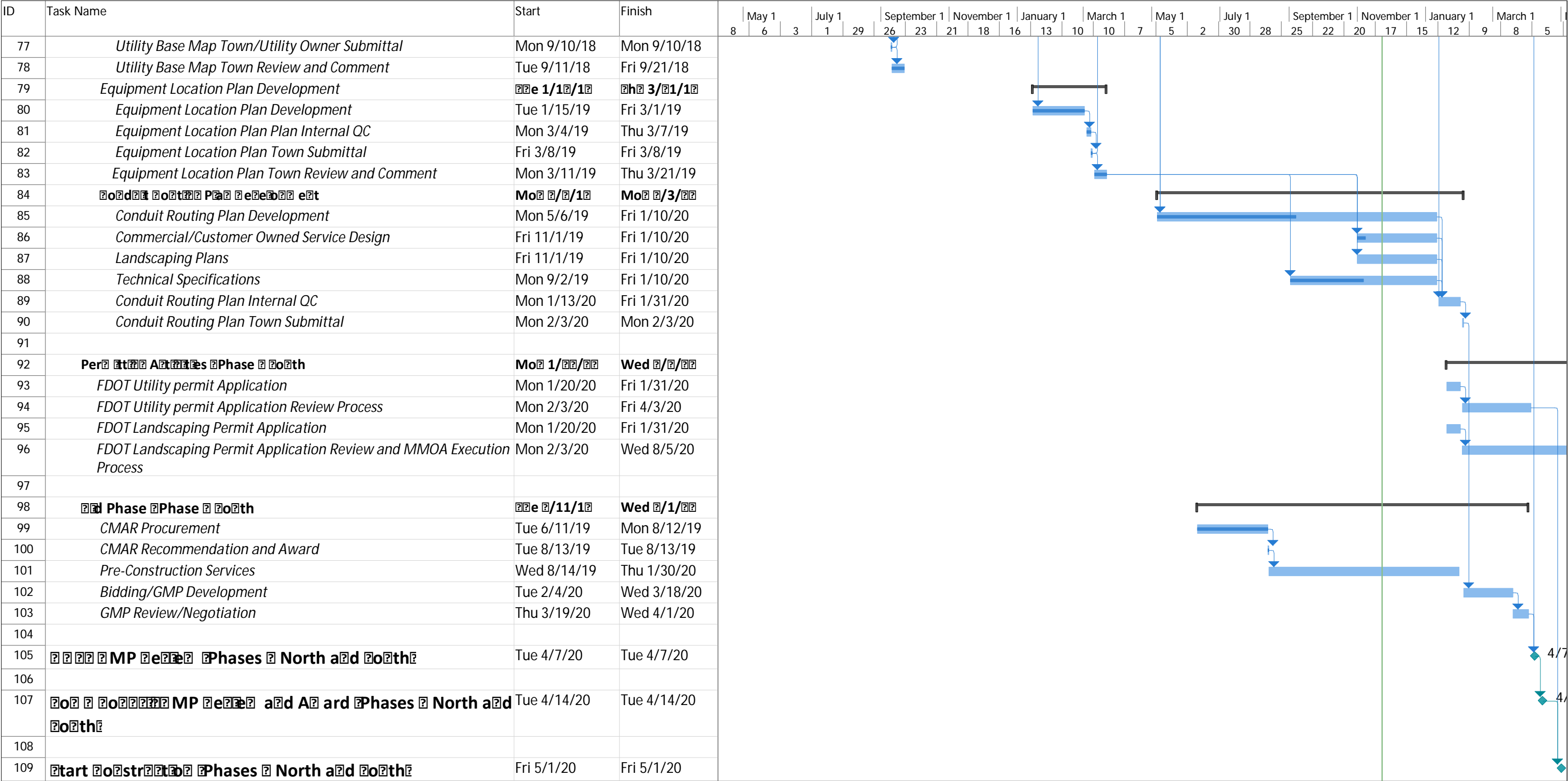
Page 2







Page 2



Project: Phase 4 Detailed Design
Date: Sat 11/23/19

Task

Split

Milestone

Summary

Project Summary

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

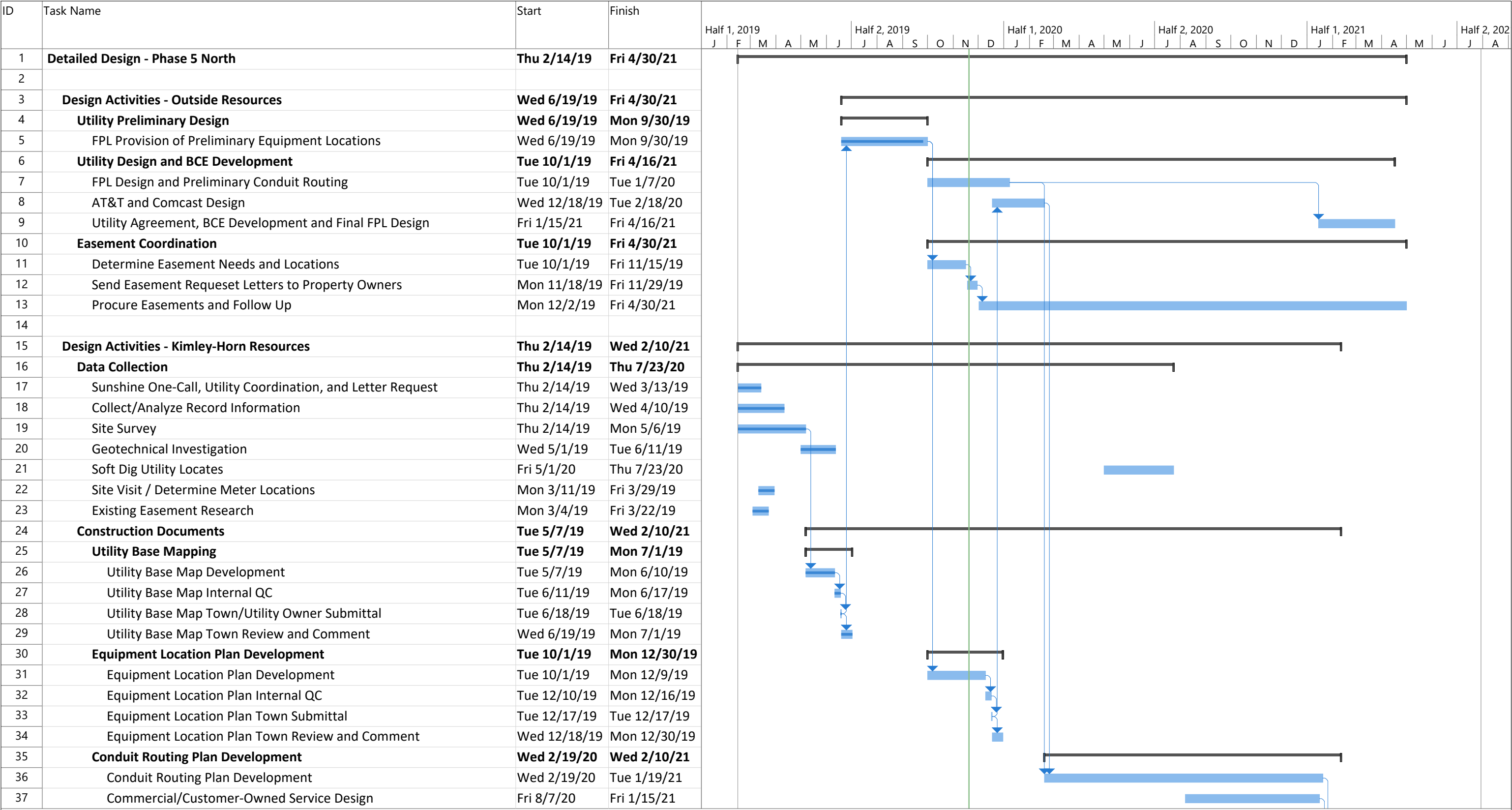
External Tasks

External Milestone

Deadline

Progress

Manual Progress



Project: 2019_0226_Schedule
Date: Wed 11/20/19

Task

Split

Milestone

Summary

Project Summary

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Deadline

Progress

Manual Progress

ID	Task Name	Start	Finish	Timeline																															
				Half 1, 2019						Half 2, 2019					Half 1, 2020					Half 2, 2020					Half 1, 2021					Half 2, 2021					
				J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A
38	Landscaping Plan	Fri 8/7/20	Fri 1/15/21																																
39	Technical Specifications	Fri 8/7/20	Fri 1/15/21																																
40	Conduit Routing Plan Internal QC	Wed 1/20/21	Tue 2/9/21																																
41	Conduit Routing Plan Town/CMAR Submittal	Wed 2/10/21	Wed 2/10/21																																
42																																			
43	Bid Phase - Phase 5 North	Mon 6/1/20	Tue 4/13/21																																
44	CMAR Procurement	Mon 6/1/20	Wed 9/30/20																																
45	CMAR Recommendation and Award	Tue 10/13/20	Tue 10/13/20																																
46	Preconstruction Services	Wed 10/14/20	Tue 4/13/21																																
47	Bidding/GMP Development	Thu 2/11/21	Wed 3/31/21																																
48	GMP Review/Negotiation	Thu 4/1/21	Fri 4/9/21																																
49																																			
50	Detailed Design - Phase 5 South	Thu 2/14/19	Thu 7/29/21																																
51																																			
52	Design Activities - Outside Resources	Mon 6/24/19	Fri 4/30/21																																
53	Utility Preliminary Design	Mon 6/24/19	Mon 9/30/19																																
54	FPL Provision of Preliminary Equipment Locations	Mon 6/24/19	Mon 9/30/19																																
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64	Design Activities - Kimley-Horn Resources	Thu 2/14/19	Wed 2/10/21																																
65	Data Collection	Thu 2/14/19	Thu 7/23/20																																
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68	Site Survey	Thu 2/14/19	Mon 5/6/19																																
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70	Soft Dig Utility Locates	Fri 5/1/20	Thu 7/23/20																																
71	Site Visit / Determine Meter Locations	Mon 3/11/19	Fri 3/29/19																																
72	Existing Easement Research	Mon 3/4/19	Fri 3/22/19																																
73	Construction Documents	Tue 5/7/19	Wed 2/10/21																																
74	Utility Base Mapping	Tue 5/7/19	Mon 7/1/19																																

Project: 2019_0226_Schedule
Date: Wed 11/20/19

Task Project Summary

Split Inactive Task

Milestone Inactive Milestone

Summary Inactive Summary

Manual Task Manual Task

Duration-only Duration-only

Manual Summary Rollup Manual Summary Rollup

Manual Summary Manual Summary

Start-only Start-only

Finish-only Finish-only

External Tasks External Tasks

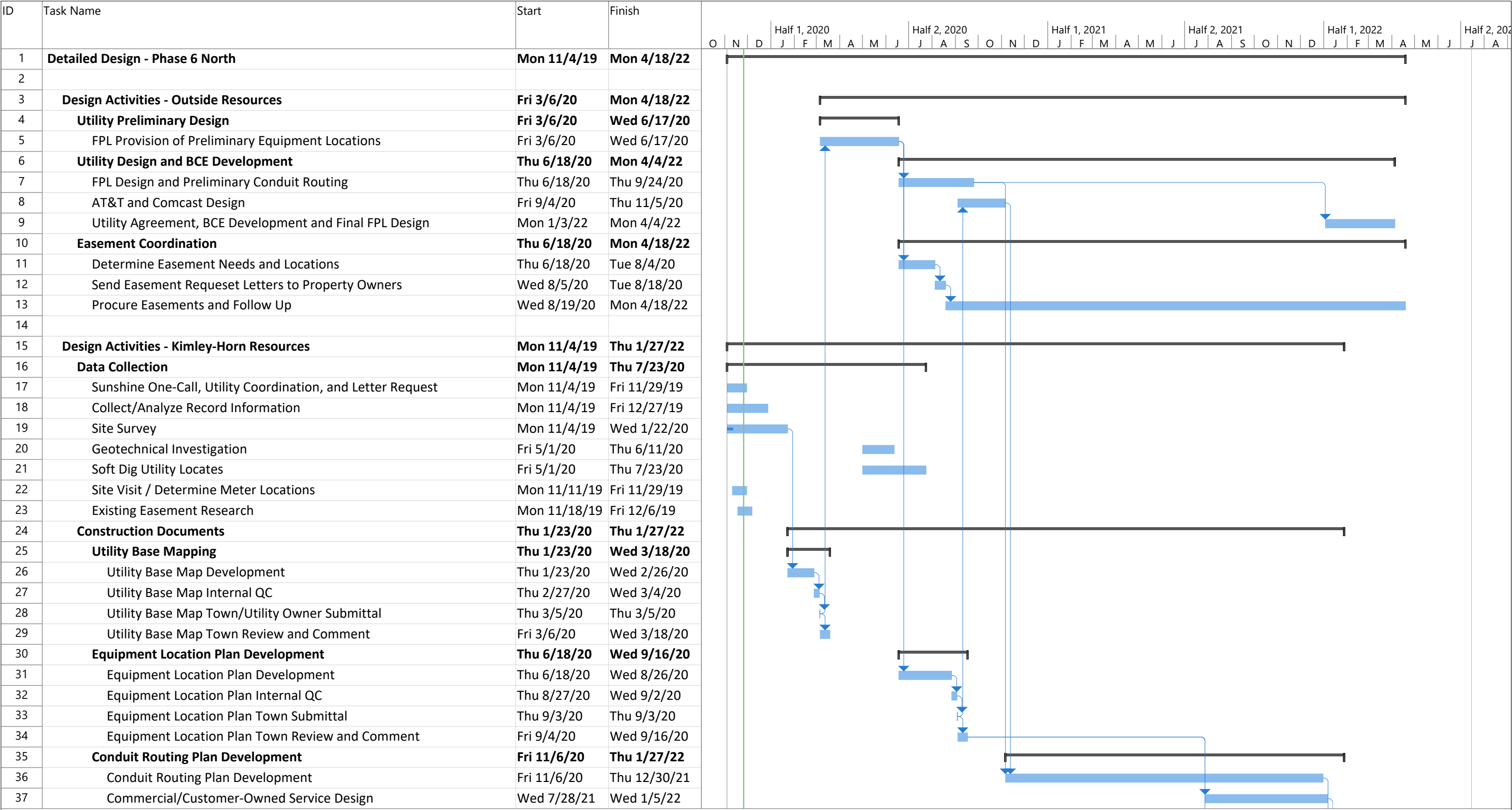
External Milestone External Milestone

Deadline Deadline

Progress Progress

Manual Progress Manual Progress

Page 2



Project: 2019_0226_Schedule
Date: Tue 11/26/19

Task

Split

Milestone

Summary

◆

Project Summary

Inactive Task

Inactive Milestone

Inactive Summary

◆

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Deadline

Progress

Manual Progress

ID	Task Name	Start	Finish																																																																								
				Half 1, 2020												Half 2, 2020												Half 1, 2021												Half 2, 2021												Half 1, 2022												Half 2, 2022											
				O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D																					
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42																																																																											
43	Bid Phase - Phase 6 North	Fri 5/28/21	Wed 4/13/22																																																																								
44	CMAR Procurement	Fri 5/28/21	Tue 9/28/21																																																																								
45	CMAR Recommendation and Award	Tue 10/12/21	Tue 10/12/21																																																																								
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49																																																																											
50	Detailed Design - Phase 6 South	Mon 11/4/19	Thu 7/14/22																																																																								
51																																																																											
52	Design Activities - Outside Resources	Fri 3/6/20	Mon 4/18/22																																																																								
53	Utility Preliminary Design	Fri 3/6/20	Wed 6/17/20																																																																								
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Project: 2019_0226_Schedule

Date: Tue 11/26/19

Task

Split

Milestone

Summary

Project Summary

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

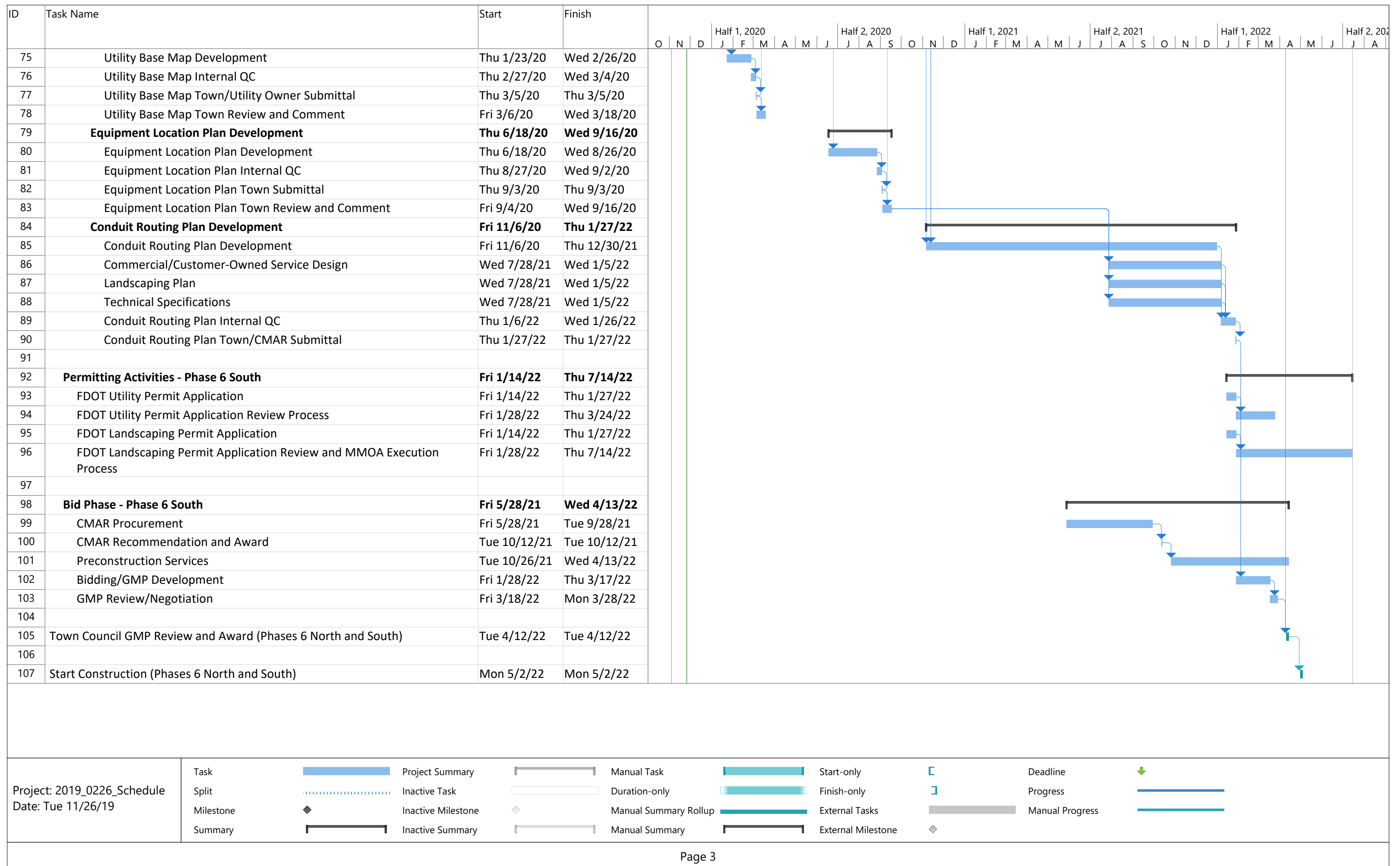
External Milestone

Deadline

Progress

Manual Progress

Page 2



Vincent G. Burkhardt
President



Executive Summary

Vincent G. Burkhardt
President



Executive Summary
For
October 2019

Project Description

Townwide Overhead Utility Undergrounding
Phase 2 North
P.O. # 181400

Project Status:

In October the crews continued pulling wire throughout the site. All of the primary wire and the majority of the secondary wire was installed by the end of the month. As the month ended all of the main feeder wire had also been pulled. The FPL as build drawings have been reviewed by the engineers and are now in the hands of FPL for their review.

COMCAST crews continued pulling cables through their conduits throughout the project and began installing private side service cables.

Florida Public Utilities (FPU Gas), finished with their roadway restoration within the project limits.

AT&T finished rodding their conduits to obtain the lengths of cable needed for the switchover. They are now awaiting material delivery

The project remains on schedule and continues to stay within budget.

TOWN-WIDE OVERHEAD UTILITY UNDERGROUNDING
PHASE 2 NORTH
PRELIMINARY SCHEDULE
RFQ No. 2018-03

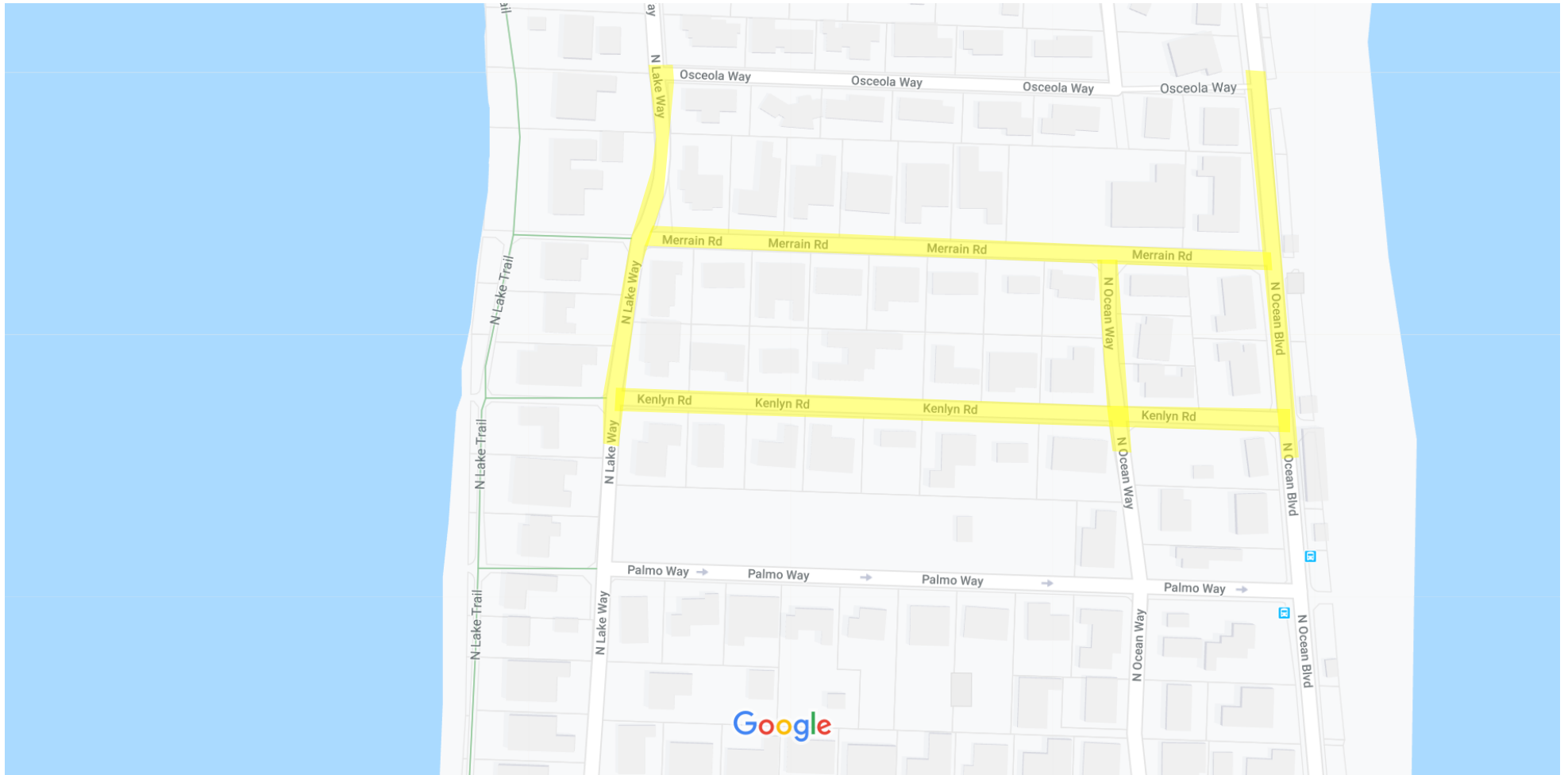
ID	Task Name	% Comple	Duration	Start	Finish	3rd Quarter			4th Quarter			1st Quarter			2nd Quarter			3rd Quarter			4th Quarter			1st Quarter			
						Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	
1	Phase 2 NORTH	62%	399 days	Tue 8/14/18	Fri 2/21/20																						
2	Town Council Approval	100%	1 day	Tue 8/14/18	Tue 8/14/18																						
3	Award Prime Contract	100%	13 days	Wed 8/15/18	Fri 8/31/18																						
4	Permitting	100%	14 days	Wed 8/15/18	Mon 9/3/18																						
5	Customer Owned Service Connection Permitting	100%	14 days	Wed 8/15/18	Mon 9/3/18																						
6	Sub Contract Agreements	100%	14 days	Wed 8/15/18	Mon 9/3/18																						
7	Material Procurement	100%	11 days	Mon 8/20/18	Mon 9/3/18																						
8	Underground Conduit Installation, Primary/Secondary (FPL, ATT, Comcast)	100%	240 days	Mon 9/3/18	Fri 8/2/19																						
9	Feeder Splice Box Installation	100%	140 days	Sun 12/30/18	Thu 7/11/19																						
10	Set Transformers / Switch Cabinets (FPL)	100%	155 days	Sun 1/13/19	Thu 8/15/19																						
11	Secondary Services / Wire	100%	235 days	Mon 11/5/18	Fri 9/27/19																						
12	As-Built Submission / Review (FPL)	99%	220 days	Mon 2/11/19	Fri 12/13/19																						
13	Pull Wire / Terminations Primary (FPL)	100%	145 days	Mon 2/18/19	Fri 9/6/19																						
14	*ATT Rod Conduit, Pull Wire, Set Pedestals	50%	180 days	Mon 3/11/19	Fri 11/15/19																						
15	*Comcast Pull Wire, Set Pedestals	40%	180 days	Mon 3/11/19	Fri 11/15/19																						
16	Cut over / Overhead Removal (ATT/Comcast)	0%	150 days	Mon 6/3/19	Fri 12/27/19																						
17	Energize Underground (FPL)	0%	140 days	Mon 4/8/19	Fri 10/18/19																						
18	Secondary Service Switch Over (FPL)	0%	180 days	Fri 4/19/19	Thu 12/26/19																						
19	** Demo Overhead / Remove Poles (FPL) / Final Restoration	0%	180 days	Mon 6/17/19	Fri 2/21/20																						
20	*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%																									
21	**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%																									
22	Storm Drainage	100%	30 days	Mon 8/12/19	Fri 9/20/19																						

TOWN-WIDE OVERHEAD UTILITY UNDERGROUNDING
PHASE 3 NORTH
PRELIMINARY SCHEDULE
RFQ No. 2018-03



ID	Task Name	% Compl	Duration	Start	Finish	May 21 5/12	6/16	August 1 7/21	8/25	October 11 9/29	11/3	December 21 12/8	1/12	March 1 2/16	3/22	May 11 4/26	5/31	July 21 7/5	8/9	October 1 9/13	10/18	December 11 11/22	12/27	February 21 1/31	3/7	4/11	May 1 5/16
1	PHASE 3 NORTH	10%	444 days?	Wed 8/14/19	Mon 4/26/21																						
2	Town Council Approval	10...	1 day	Wed 8/14/19	Wed 8/14/19																						
3	Award Prime Contract	10...	13 days	Thu 8/15/19	Mon 9/2/19																						
4	Permitting	95%	14 days	Thu 8/15/19	Tue 9/3/19																						
5	Customer Owned Service Connection Permitt	10...	14 days	Thu 8/15/19	Tue 9/3/19																						
6	Sub Contract Agreements	10...	14 days	Thu 8/15/19	Tue 9/3/19																						
7	Material Procurement	70%	55 days	Tue 8/20/19	Sun 11/3/19																						
8	Underground Conduit Installation, Primary/Secondary (FPL, ATT, Comcast)	7%	240 days	Mon 11/4/19	Fri 10/2/20																						
9	As-Built Submission / Review (FPL)	0%	200 days	Fri 1/3/20	Thu 10/8/20																						
10	Secondary Services / Wire	0%	100 days	Fri 5/8/20	Thu 9/24/20																						
11	Feeder Splice Box Installation	0%	55 days	Fri 7/10/20	Thu 9/24/20																						
12	Set Transformers / Switch Cabinets (FPL)	0%	55 days	Fri 7/10/20	Thu 9/24/20																						
13	Pull Wire / Terminations Primary (FPL)	0%	85 days	Fri 8/14/20	Thu 12/10/20																						
14	*ATT Rod Conduit, Pull Wire, Set Pedestals	0%	55 days	Fri 8/14/20	Thu 10/29/20																						
15	*Comcast Pull Wire, Set Pedestals	0%	55 days	Fri 8/14/20	Thu 10/29/20																						
16	Cut over / Overhead Removal (ATT/Comcast)	0%	20 days	Fri 11/6/20	Thu 12/3/20																						
17	Energize Underground (FPL)	0%	20 days	Tue 12/15/20	Mon 1/11/21																						
18	Secondary Service Switch Over (FPL)	0%	35 days	Tue 12/15/20	Mon 2/1/21																						
19	** Demo Overhead / Remove Poles (FPL) / Final Restoration	0%	57 days	Fri 2/5/21	Mon 4/26/21																						
20	*This Work Will Be Performed By ATT/COMCAST Crews, All Other Work Is Anticipated To Be Performed By A Subcontractor Under The Direction Of	0%																									
21	**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%																									

Phase 3 North / Work Area #1



Map data ©2019 50 m

SAFETY

Monthly safety inspections are conducted by WT Regional Safety Director. Daily safety inspections conducted by onsite staff.

- ◆ 0 lost time incidents to date
- ◆ 1 recordable incident to date

CONSTRUCTION

- ◆ Some switching orders for the south end of South Ocean Blvd. (south of Lake Ave.) received from FPL. Conversions currently in progress. Approx. 46 conversions completed to date.
- ◆ S. Ocean Blvd (Electrical Undergrounding Crew) - Undergrounding Crews are 100% scope of work completed. Street Lighting install completed. FPL Punchlist related items completed. Some switching orders received from FPL. Electrical conversions 67% completed.
- ◆ Phipps Ocean North Parking Lot Lighting conduit, handholes and pole installation completed. Switching orders for this area received from FPL.
- ◆ Ibis Isle AT&T/Comcast conduit installation along with drainage improvements and striping complete. Ibis Island switching order received, energizing in progress. 44 conversions completed to date on Ibis Isle.
- ◆ A-41 electrical/mechanical installations complete. Roof install 100% completed.

DOCUMENTATION:

RFIs:

- A. 37 RFIs issued to date
- B. 0 Outstanding RFI

SUBMITTALS:

- A. 276+ Individual Submittals Processed
- B. 0 Submittal Package Currently Under Review
- C. 0 Submittal Packages Pending Submission to A/E

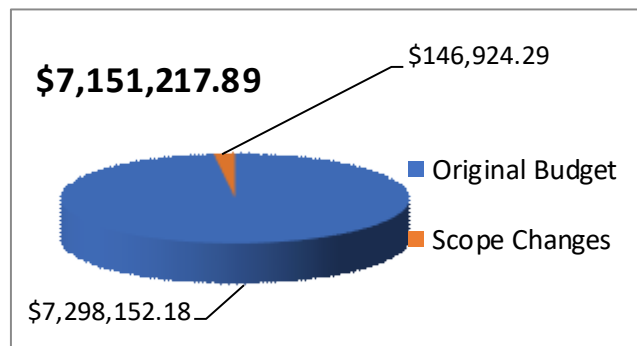
DRAWINGS: Added Scopes of Work

- A. Post GMP Phipps Ocean Park Restroom Building.
- B. Post GMP Phipps Ocean Park Lighting.
- C. Post GMP A-41 Wastewater Pump Station.
- D. Post GMP Ibis Bridge Watermain Crossing.

RELEVANT POTENTIAL CHANGES:

- A. Time Extension Requested based on delayed receipt of Switching Orders from FPL.

FINANCIALS—BUDGET VS. COSTS



Current GMP Amount	—	\$7,151,217.89
Approved Owner Initiated Scope Changes	—	\$146,934.29
Gross Billings to Date (\$)	—	\$6,594,884.75
Gross Billings to Date (%)	—	92%
Schedule % Completed	—	95%



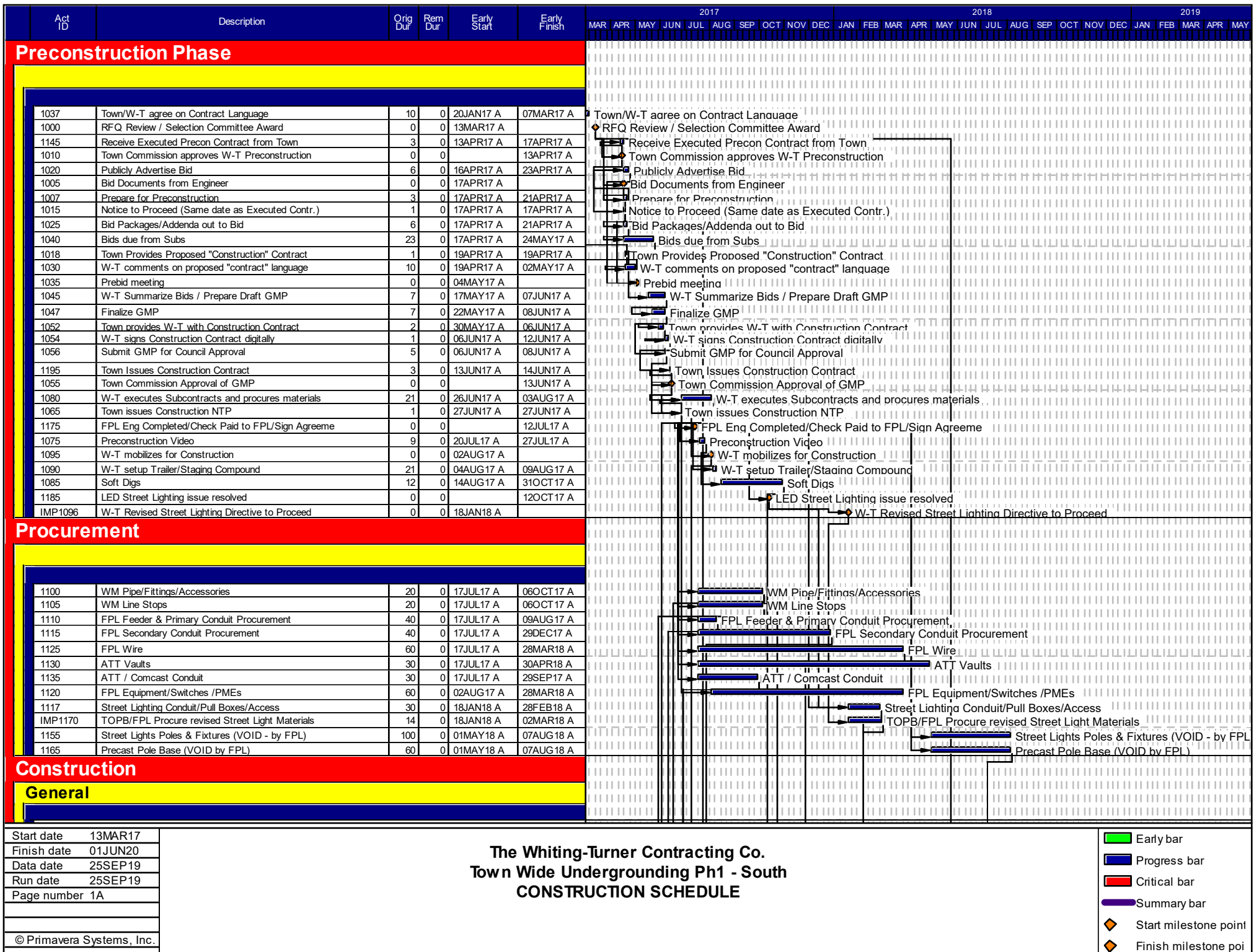
SCHEDULE SUMMARY

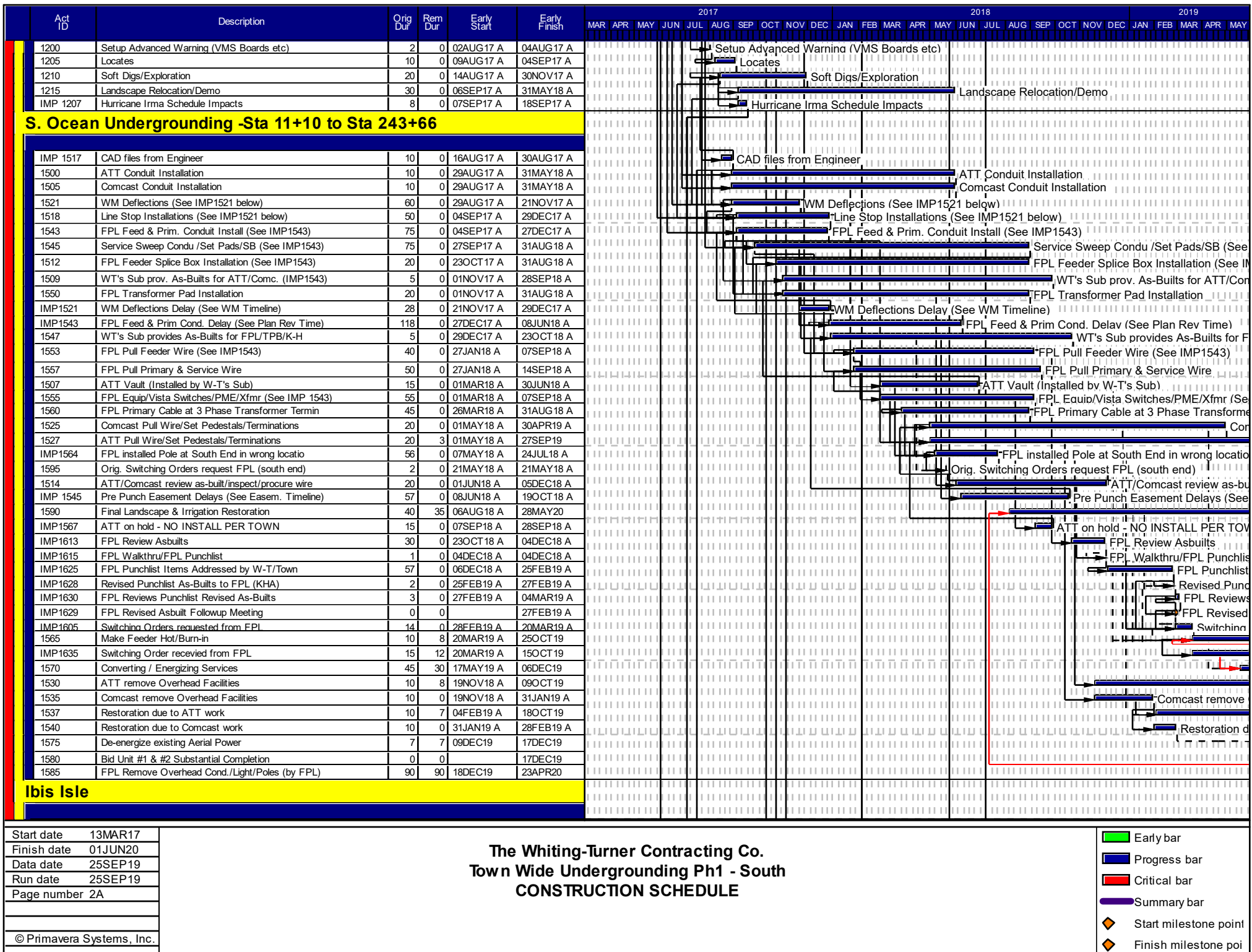
S. Ocean Undergrounding -Sta 11+10 to Sta 243+66					
1570	Converting / Energizing Services	45	44	17MAY19 A	21AUG19
1530	ATT remove Overhead Facilities	10	10	23MAY19	05JUN19
1535	Comcast remove Overhead Facilities	10	10	23MAY19	05JUN19
1537	Restoration due to ATT work	10	10	06JUN19	19JUN19
1540	Restoration due to Comcast work	10	10	06JUN19	19JUN19
1575	De-energize existing Aerial Power	7	7	22AUG19	30AUG19
A-41 Pump Station					
Preconstruction					
4100	Bid Packages to Subs	5	0	23MAR18 A	26APR18 A
4105	Subcontractor Bids Due	10	0	26APR18 A	10MAY18 A
4110	WT Prepares Analysis & Submit to Owner	10	0	11MAY18 A	18MAY18 A
4115	Town Council/Engineer Approves WT Proposal	15	0	18MAY18 A	12JUN18 A
4120	Town Issues Change Order / PO	3	0	12JUN18 A	28JUN18 A
4125	WT Issues Contracts to Subs	10	0	12JUN18 A	18JUL18 A
Street Lighting					
IMP4140	Davco to complete Punchlist per Town/MR	10	5	30NOV18 A	24MAY19
4050	Asphalt/Concrete Restoration	15	15	27MAY19	14JUN19
IMP4130	Primary to be Energized (Heat-up/Switching Order)	1	1	03JUN19	03JUN19
4040	FPL to Energize Light Poles	10	10	04JUN19	17JUN19
4060	Landscape & Irrigation Restoration	10	10	17JUN19	28JUN19
4090	Bid Unit #4 Substantial Completion	0	0		28JUN19



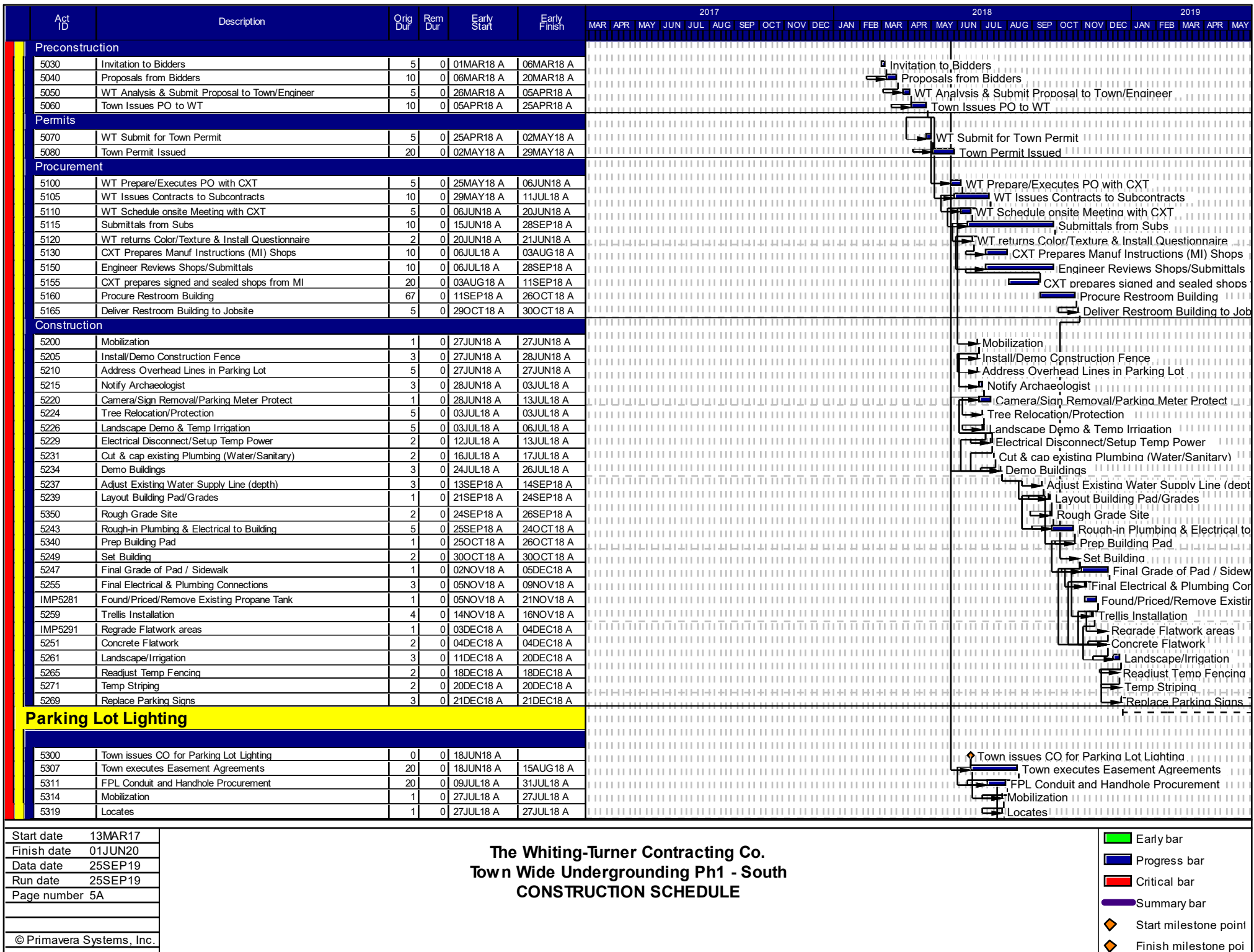
SCHEDULE NOTES / IMPACTS:

- Street Lighting conduit and handhole installations by Whiting-Turner 100% complete. Completion of the FPL Street Lighting installation punch-list (by FPL contractor) is still pending. This is preventing Whiting-Turner from completing the restoration scope.
- Additional AT&T/Comcast Service Conduit by Whiting-Turner at Ibis Isle completed. AT&T direct installations pending and Comcast direct installation approx. 100% completed. Service swaps are complete from both AT&T and Comcast.
- A-41 Pump Station pump back online. Roof installation complete.
- FPL switching orders slowly being received. Remaining switching orders pending.





Act ID	Description	Orig Dur	Rem Dur	Early Start	Early Finish	2017												2018												2019					
						MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY			
3008	FPL Primary/ATT & Comcast Conduits (Open Cut)	30	0	04SEP17 A	28FEB18 A																														
IMP 3006	FDEP Permit - Subaqueous Crossing	30	0	04SEP17 A	29JAN18 A																														
3010	Backfill and Temp Restore	30	0	11SEP17 A	28MAR18 A																														
3030	Service Sweep Condu /Set Equip Pads/Splice Boxes	45	0	19SEP17 A	28FEB18 A																														
3052	Easements Recorded	0	0		11OCT17 A																														
IMP 3009	Additional FPL Conduits per Town	7	0	23OCT17 A	03NOV17 A																														
3020	WT's Sub provides as-builts for ATT & Comcast	5	0	06NOV17 A	23MAR18 A																														
3045	Set Equip/PME/Terminations	30	0	06NOV17 A	28FEB18 A																														
IMP 3011	Additional ATT & Comcast Conduit CO Approval	10	0	10NOV17 A	20MAR18 A																														
3047	Transformer Installation	30	0	13NOV17 A	28FEB18 A																														
3049	Pull Primary & Service Wire	30	0	27NOV17 A	28FEB18 A																														
3005	Fire Hydrant Assembly	5	0	29NOV17 A	30NOV17 A																														
3055	WT's Sub provides as-builts for FPL/TPB/KH	5	0	03JAN18 A	23MAR18 A																														
3035	ATT/Comcast Reviews as-builts/inspect/procure	20	0	02APR18 A	31AUG18 A																														
3057	ATT/Comcast to install Residential Services	35	0	02APR18 A	06SEP19 A																														
IMP 3013	Hold - No Install by Comcast per TOPB	30	0	25APR18 A	28SEP18 A																														
IMP 3012	Additional ATT & Comcast Conduit Install (WT)	10	0	04JUN18 A	31JUL18 A																														
IMP3084	Ibis Isle Mill-Overlay-Curb Redesign	5	0	11OCT18 A	23OCT18 A																														
IMP3120	Reprice Ibis Isle Redesign	5	0	23OCT18 A	06NOV18 A																														
3074	Curb Removal & Replacement	7	0	19NOV18 A	21NOV18 A																														
3076	Asphalt Mill & Overlay	7	0	04DEC18 A	14DEC18 A																														
3065	Energize Primary	10	0	05AUG19 A	06AUG19 A																														
3090	WT's Sub Converts Residential Services (FPL)	45	0	16AUG19 A	20SEP19 A																														
IMP3067	Comcast requires Power to complete conversions	10	0	01JUL19 A	08JUL19 A																														
3100	ATT/Comcast remove overhead facilities	20	0	20MAY19 A	28JUN19 A																														
3110	Bid Unit #3 Substantial Completion	0	0		24SEP19																														
3070	FPL Remove Overhead Conductors/Light/Poles	90	90	25SEP19	30JAN20																														
3080	Final Landscape & Irrigation Restoration	45	45	17JAN20	19MAR20																														
Street Lighting																																			
IMP 4000	Revised Street Lighting Drawings from EOR	30	0	27JUN17 A	27SEP17 A																														
IMP 4005	W-T Provide Proposal re Revised Street Lighting	0	0	06NOV17 A																															
IMP 4007	Revised Street Lighting CO Approval	10	0	06NOV17 A	18JAN18 A																														
IMP 4009	WT Pickup Materials from FPL	4	0	02MAR18 A	16MAR18 A																														
4000	Conduit & Pull Box Installation	40	0	26MAR18 A	06JUL18 A																														
4080	WT's Sub provides conduit as-builts for TPB/KH	10	0	21MAY18 A	24JUL18 A																														
4010	FPL to Install Pole Bases	60	0	14AUG18 A	31AUG18 A																														
4030	FPL to Install Poles & Fixtures	40	0	14AUG18 A	31AUG18 A																														
4070	FPL to Setup Pedestrian Detour at Sidewalk	2	0	14AUG18 A	31AUG18 A																														
4020	FPL to Pull Wire/Terminations	15	0	03SEP18 A	01NOV18 A																														
IMP4140	Davco to complete Punchlist per Town/MR	10	5	30NOV18 A	01OCT19																														
4050	Asphalt/Concrete Restoration	15	15	02OCT19	22OCT19																														
IMP4130	Primary to be Energized (Heat-up/Switching Order)	1	1	16SEP19 A	25SEP19																														
4040	FPL to Energize Light Poles	10	10	26SEP19	09OCT19																														
4060	Landscape & Irrigation Restoration	10	10	23OCT19	05NOV19																														
4090	Bid Unit #4 Substantial Completion	0	0		05NOV19																														
A-41 Pump Station																																			
Preconstruction																																			
4100	Bid Packages to Subs	5	0	23MAR18 A	26APR18 A																														
4105	Subcontractor Bids Due	10	0	26APR18 A	10MAY18 A																														
4110	WT Prepares Analysis & Submit to Owner	10	0	11MAY18 A	18MAY18 A																														
4115	Town Council/Engineer Approves WT Proposal	15	0	18MAY18 A	12JUN18 A																														
4120	Town Issues Change Order / PO	3	0	12JUN18 A	28JUN18 A																														
Start date 13MAR17																																			
Finish date 01JUN20																																			
Data date 25SEP19																																			
Run date 25SEP19																																			
Page number 3A																																			
© Primavera Systems, Inc.																																			
The Whiting-Turner Contracting Co. Town Wide Undergrounding Ph1 - South CONSTRUCTION SCHEDULE																																			
<div><div></div> Early bar</div> <div><div></div> Progress bar</div> <div><div></div> Critical bar</div> <div><div></div> Summary bar</div> <div><div></div> Start milestone point</div> <div><div></div> Finish milestone poi</div>																																			



**Underground Utility Project Budget
Project Financial Summary
November 30, 2019**

Expenditures	Original OPC	Dec 2019 OPC	Budget	Actual	% Expended
Phase 1	\$ 12,620,000	\$ 12,910,000	\$ 12,797,329	\$ 12,455,075	97.3%
Phase 2	\$ 9,170,000	\$ 13,470,000	\$ 5,908,316	\$ 5,489,023	92.9%
Phase 3	\$ 10,910,000	\$ 15,400,000	\$ 5,907,018	\$ 1,419,164	24.0%
Phase 4	\$ 10,370,000	\$ 15,220,000	\$ 1,330,129	\$ 566,858	42.6%
Phase 5 (\$8.5 Million FEMA Grant Offset)	\$ 14,090,000	\$ 11,694,645	\$ 1,594,415	\$ 372,729	23.4%
Phase 6	\$ 16,820,000	\$ 20,800,000	\$ 1,886,346	\$ -	0.0%
Phase 7	\$ 11,730,000	\$ 15,910,000	\$ -	\$ -	
Phase 8	\$ 12,300,000	\$ 14,500,000	\$ -	\$ -	
Total Project Costs To Date	\$ 98,010,000	\$ 119,904,645	\$ 29,423,554	\$ 20,302,848	69.0%
Other Costs Associated Directly with the Project (Page 8)	\$ 570,000	\$ 980,414	\$ 980,414	\$ 915,944	93.4%
Grand Total of Costs Related to Project	\$ 98,580,000	\$ 120,885,059	\$ 30,403,968	\$ 21,218,793	69.8%
Debt Service and Related Debt Issuance Costs (Page 8)			\$ 2,700,000	\$ 3,432,464	127.1%
Total Other Costs Outside Underground Budget (Page 8)			\$ 1,019,169	\$ 1,853,611	181.9%
Grand Total of All Costs Related to the Project	\$ 98,580,000	\$ 120,885,059	\$ 31,423,137	\$ 23,072,404	73.4%

Total Project Budget - Opinion of cost for construction	\$ 119,904,645
% Budgeted/Encumbered To Date Project Costs	25.36%
% Spent to Date - Project Costs	17.70%

Project Revenues Received

Revenues	Budget	Actual	% of Budget
Revenues			
Prepaid Assessments	\$ -	\$ 11,736,629	0.0%
Assessment Revenue	\$ 13,380,000	\$ 8,628,078	64.5%
Commercial Paper	\$ -	\$ -	0.0%
Town Owned Property Prepaid Assessments	\$ 2,797,291	\$ 2,797,291	100.0%
Interest on Assessment Escrow	\$ -	\$ 396,389	0.0%
Interest	\$ 512,000	\$ 1,499,428	292.9%
GO Bond Proceeds	\$ 60,500,000	\$ 60,499,897	100.0%
1 Cent Sales Tax	\$ 2,000,000	\$ 1,500,000	75.0%
FPL		\$ 450,246	0.0%
FEMA Grant	\$ 8,500,000	\$ -	0.0%
Other			
Kevin McGann - CO #9	\$ -	\$ 34,900	0.0%
Donations - Civic Association	\$ 49,250	\$ 49,250	100.0%
Transfer from (307) Fund CIP	\$ 760,200	\$ 760,200	100.0%
Transfer from (001) General Fund - PM Salary	\$ 409,450	\$ 265,000	64.7%
Total Project Revenues	\$ 88,908,191	\$ 88,617,308	99.7%

Underground Utility Project Budget
Phase 1 Project Costs
November 30, 2019

	Original OPC	Dec 2019 OPC	Budget	Actual	% Expended
Project Engineering					
Task 2.1 - Detailed Design North End	590,000		472,063	472,063	100.0%
Task 2.2 - Detailed Design South End	740,000		619,411	619,411	100.0%
Task 2.3 - Permitting Assistance			17,790	17,790	100.0%
Task 2.4 - Bid Phase Assistance			42,166	42,166	100.0%
Task 2.5 - Meetings - Design Phase			125,399	125,383	100.0%
Subtotal Design Phase	\$ 1,330,000	\$ 1,280,000	\$ 1,276,829	\$ 1,276,813	100.0%
Construction Costs					
Phase 1 North Construction					
Preconstruction			\$ 19,720	19,720	100.0%
Burkhardt Construction			\$ 3,598,144	3,598,144	100.0%
Street Light Conversion			\$ 26,273	40,934	155.8%
Change Order for AT&T and Comcast Conduit			\$ 371,201	371,201	100.0%
Other Change orders			\$ 130,415	130,415	100.0%
Utility Design Costs			\$ 15,595	15,595	100.0%
Utility Construction Costs (FPL, Comcast, AT&T)			\$ 476,776	483,548	101.4%
Construction Engineering (KH)			\$ 230,532	205,818	89.3%
	\$ 4,210,000	\$ 4,930,000	\$ 4,868,657	\$ 4,865,374	99.9%
Phase 1 South Construction					
Preconstruction			\$ 22,200	22,200	100.0%
Whiting Turner Construction			\$ 4,450,977	4,177,374	93.9%
Change Order for AT&T and Comcast Conduit			\$ 125,147	125,147	100.0%
Other Approved Change Orders			\$ 12,749	12,749	100.0%
Utility Design Costs			\$ 33,013	33,013	100.0%
Utility Construction Costs (FPL, Comcast, AT&T)			\$ 1,374,193	1,362,028	99.1%
Construction Engineering (KH)			\$ 283,880	272,915	96.1%
	\$ 6,800,000	\$ 6,350,000	\$ 6,302,159	\$ 6,005,425	95.3%
Easement Recording Fees			\$ 347	\$ 740	
Legal Costs/Easement Acquisition - Jones Foster	\$ 280,000	\$ 350,000	\$ 301,359	\$ 306,723	101.8%
Legal Sketch and Description - Easements			34,000	33,215	97.7%
Easement Abandonment					
Surveying			\$ 13,978		
Temp Service					
Total Phase 1 Costs	\$ 12,620,000	\$ 12,910,000	\$ 12,797,329	\$ 12,455,075	97.3%

Underground Utility Project Budget
Phase 2 Project Costs
November 30, 2019

	Original OPC	Dec 2019 OPC	Budget	Actual	% Expended
Phase 2 Design					
Kimley Horn					
Task 1.1 Phase 2 North Design	335,000		\$ 281,304	\$ 281,304	100.0%
Task 1.2 Phase 2 South Design	400,000		\$ 335,353	\$ 335,353	100.0%
Task 1.3 Permitting Assistance North and South			\$ 12,674	\$ 12,674	100.0%
Task 1.4 Bid Phase Assistance North and South			\$ 40,565	\$ 38,358	94.6%
Task 1.6 Meetings North and South			\$ 136,617	\$ 129,348	94.7%
Total Phase 2 Design	\$ 735,000	\$ 807,000	\$ 806,513	\$ 797,037	98.8%
Construction Costs					
Phase 2 North Construction					
Preconstruction			\$ 35,000	31,970	91.3%
Burkhardt Construction			\$ 4,015,865	3,522,215	87.7%
Approved Change Orders			\$ -	-	
FPL Design Cost			\$ 11,759	1,350	11.5%
ATT Design Cost			\$ 5,000	\$ 5,000	100.0%
Comcast Design Cost				\$ 4,582	
Utility Costs (FPL, Comcast, AT&T)			\$ 496,307	\$ 496,307	100.0%
FPL - Additional Vista Switches				\$ 54,938	
Street Light Conversion			\$ 19,186	\$ 19,186	100.0%
Construction Engineering (KH)			\$ 248,121	\$ 193,349	77.9%
Total Phase 2 North Construction	3,800,000	5,020,000	\$ 4,831,238	\$ 4,328,898	0.0%
Phase 2 South Construction	-				
Preconstruction			\$ 35,000	-	
Burkhardt Construction					
Approved Change Orders			\$ -		
FPL Design Cost			\$ 13,330	14,200	106.5%
ATT Design Cost			\$ 5,000	\$ 5,000	100.0%
Comcast Design Cost				\$ 4,582	
Utility Costs (FPL, Comcast, AT&T)				\$ 123,948	
Street Light Conversion				\$ 19,268	
Construction Engineering (KH)	-				
Total Phase 2 South Construction	4,435,000	7,424,000	\$ 53,330	\$ 166,998	313.1%
Easement Acquisition/Abandonment	200,000	219,000			
<i>Kimley Horn Easement Assistance</i>					
Task 1.5 Easement Assistance North			\$ 64,936	\$ 64,715	99.7%
Task 1.5 Easement Assistance South			\$ 77,466	\$ 76,456	98.7%
<i>Surveys</i>					
Task 1.7 Legal Sketch North			\$ 14,020	\$ 14,020	100.0%
Task 1.7 Legal Sketch South			\$ 16,725	\$ 16,633	99.5%
Advertising				\$ 1,101	
Jones Foster - Legal			\$ 25,000	\$ 20,045	80.2%
Postage			\$ -	\$ 491	
Recording Costs			\$ 3,605	\$ 2,629	72.9%
Easement Abandonment			\$ 15,484	-	0.0%
Total Easement Acquisition Costs	200,000	219,000	\$ 217,236	\$ 196,090	90.3%
Total Phase 2 Costs	\$ 9,170,000	\$ 13,470,000	\$ 5,908,316	\$ 5,489,023	92.9%

Underground Utility Project Budget
Phase 3 Project Costs
November 30, 2019

	Original OPC	Dec 2019 OPC	Budget	Actual	% Expended
Phase 3 Design					
Kimley Horn					
Task 1.1 Phase 3 North Design	\$ 325,000		\$ 288,851	\$ 280,189	97.0%
Task 1.2 Phase 3 South Design	\$ 535,000		\$ 503,260	\$ 379,332	75.4%
Task 1.3 Permitting Assistance			\$ 13,739		0.0%
Task 1.4 Bid Phase Assistance			\$ 36,834	\$ 18,417	50.0%
Task 1.5 Meetings			\$ 101,652	\$ 38,845	38.2%
Deductive Change Order (Scope Change)			\$ (49,840)		0.0%
Total Phase 3 Design	\$ 860,000	\$ 895,000	\$ 894,496	\$ 716,782	80.1%
Construction Costs					
Phase 3 North Construction	\$ 3,700,000	\$ 5,300,000			
Preconstruction			\$ 24,580	\$ 24,580	100.0%
Construction - Burkhardt			\$ 4,042,171	\$ 70,046	1.7%
Approved Change Orders					
FPL Design Cost			\$ 12,850		0.0%
ATT Design Cost				\$ 5,000	
Comcast Design Cost				\$ 3,128	
Construction Engineering (KH)			\$ 236,976	\$ 6,197	2.6%
Daniella Construction - Nightingale/LaPuerta - Townwide portion			\$ 243,470	\$ 243,470	100.0%
FPL Nightingale/LaPuerta - Townwide Portion			\$ 74,900	\$ 74,900	100.0%
Comcast Nightingale/LaPuerta - Townwide Portion			\$ 8,885	\$ 8,885	100.0%
AT&T Nightingale/LaPuerta Townwide Portion			\$ 30,555	\$ 30,555	100.0%
Total Phase 3 North Construction	\$ 3,700,000	\$ 5,300,000	\$ 4,674,387	\$ 466,760	10.0%
Phase 3 South Construction	\$ 6,090,000	\$ 8,875,000			
Preconstruction					
Construction					
Approved Change Orders					
FPL Design Cost			\$ 11,359		
ATT Design Cost				5,000	
Comcast Design Cost				3,128	
Construction Engineering (KH)					
Total Phase 3 South Construction	\$ 6,090,000	\$ 8,875,000	\$ 11,359	\$ 8,128	0.0%
Easement Acquisition/Abandonment	\$ 260,000	\$ 330,000			
<i>Kimley Horn Easement Assistance</i>					
Task 1 Easement Assistance North and South			\$ 235,953	\$ 223,875	94.9%
Legal Advertising				\$ 1,076	
<i>Surveys</i>					
Task Legal Sketch South			\$ 37,436		
Jones Foster - Legal			\$ 25,000		
Recording Costs				\$ 2,541	
Easement Abandonment			\$ 28,387	\$ -	
Total Easement Acquisition Costs	\$ 260,000	\$ 330,000	\$ 326,776	\$ 227,493	69.6%
Total Phase 3 Costs	\$ 10,910,000	\$ 15,400,000	\$ 5,907,018	\$ 1,419,164	24.0%

Underground Utility Project Budget
Phase 4 Project Costs
November 30, 2019

	Original OPC	Dec 2019 OPC	Budget	Actual	% Expended
Phase 4 Design					
Kimley Horn					
Task 1.1 Phase 4 North Design	\$ 402,000		\$ 312,317	215,499	69.0%
Task 1.2 Phase 4 South Design	\$ 413,000		\$ 451,284	203,078	45.0%
Task 1.3 Permitting Assistance			\$ 14,468	-	0.0%
Task 1.4 Bid Phase Assistance			\$ 37,899	-	0.0%
Task 1.6 Meetings			\$ 77,911	13,420	17.2%
Total Phase 4 Design	\$ 815,000	\$ 894,000	\$ 893,879	431,997	48.3%
Construction Costs					
Phase 4 North Construction	4,605,000	6,275,000			
Preconstruction					
Construction					
Approved Change Orders					
FPL Design Cost			\$ 12,757		
ATT Design Cost				5,000	
Comcast Design Cost				3,128	
Utility Costs (FPL, Comcast, AT&T)					
Construction Engineering (KH)					
Total Phase 4 North Construction	\$ 4,605,000	\$ 6,275,000	\$ 12,757	8,128	0.0%
Phase 4 South Construction	4,710,000	7,640,000			
Preconstruction					
Construction					
Approved Change Orders					
FPL Design Cost			\$ 13,160		
ATT Design Cost				5,000	
Comcast Design Cost				3,128	
Utility Costs (FPL, Comcast, AT&T)					
Construction Engineering (KH)					
Total Phase 4 South Construction	\$ 4,710,000	\$ 7,640,000	\$ 13,160	8,128	0.0%
Easement Acquisition/Abandonment	\$ 240,000	\$ 411,000			
<i>Kimley Horn Easement Assistance</i>					
Easement Assistance (KH)			\$ 280,270	115,987	41.4%
Easement Assistance (KH) -- Switches			\$ 62,780	49	0.1%
<i>Surveys</i>					
Legal Sketch			\$ 38,230	2,250	5.9%
Legal Sketch - Switches			\$ 4,967		
Jones Foster - Legal					
Recording Costs				319	
Easement Abandonment			\$ 24,086		
Total Easement Acquisition Costs	\$ 240,000	\$ 411,000	\$ 410,333	118,606	28.9%
Total Phase 4 Costs	\$ 10,370,000	\$ 15,220,000	\$ 1,330,129	566,858	42.6%

Underground Utility Project Budget
Phase 5 Project Costs
November 30, 2019

	Original OPC	Dec 2019 OPC	Budget	Actual	% Expended
Phase 5					
Kimley Horn					
Task 1.1 Phase 5 North Design	\$ 520,000		\$ 454,210	\$ 140,805	31.0%
Task 1.2 Phase 5 South Design	\$ 600,000		\$ 606,951	\$ 188,155	31.0%
Task 1.3 Permitting Assistance North					0.0%
Task 1.3 Permitting Assistance South			\$ 17,100		0.0%
Task 1.4 Bid Phase Assistance North			\$ 37,899		0.0%
Task 1.4 Bid Phase Assistance South					0.0%
Task 1.6 Meetings North			\$ 77,911	\$ 5,752	7.4%
Task 1.6 Meetings South					0.0%
Total Phase 5 Design	\$ 1,120,000	\$ 1,195,000	\$ 1,194,071	\$ 334,712	28.0%
Construction Costs					
Phase 5 North Construction	\$ 5,890,000	\$ 8,055,000			
Preconstruction					
Construction					
Utility Costs (FPL, Comcast, AT&T)					
FPL Design Costs			\$ 16,223	16,223	100.0%
Construction Engineering (KH)					
Total Phase 5 North Construction	\$ 5,890,000	\$ 8,055,000	\$ 16,223	\$ 16,223	0.0%
Phase 5 South Construction	\$ 6,750,000	\$ 10,545,000			
Preconstruction					
Construction					
Utility Costs (FPL, Comcast, AT&T)					
FPL Design Costs			\$ 19,283	19,283	100.0%
Construction Engineering (KH)					
Total Phase 5 South Construction	\$ 6,750,000	\$ 10,545,000	\$ 19,283	\$ 19,283	100.0%
Easement Acquisition/Abandonment	\$ 330,000	\$ 365,000			
<i>Kimley Horn Easement Assistance</i>					
<i>Easement Assistance</i>			\$ 218,600	\$ 2,150	1.0%
<i>Easement Assistance</i>			\$ 75,696	\$ 250	0.3%
<i>Surveys</i>					
<i>Legal Sketch</i>			\$ 41,080		
<i>Jones Foster - Legal</i>					
<i>Recording Costs</i>				\$ 111	
<i>Easement Abandonment</i>			\$ 29,462	\$ -	
Total Easement Acquisition Costs	\$ 330,000	\$ 365,000	\$ 364,838	\$ 2,511	0.7%
Fema Grant		\$ (8,465,355)			
Total Phase 5 Costs	\$14,090,000	\$11,694,645	\$ 1,594,415	\$ 372,729	23.4%

Underground Utility Project Budget
Phase 6 Project Costs
November 30, 2019

	OPC	Dec 2019 OPC	Budget	Actual	% Expended
Phase 6 Design					
Kimley Horn					
Task 1.1 Phase 6 North Design	\$ 420,000		\$ 475,019		0.0%
Task 1.2 Phase 6 South Design	\$ 940,000		\$ 826,551		0.0%
Task 1.3 Permitting Assistance North					0.0%
Task 1.3 Permitting Assistance South			\$ 17,694		0.0%
Task 1.4 Bid Phase Assistance North			\$ 35,938		0.0%
Task 1.4 Bid Phase Assistance South					0.0%
Task 1.6 Meetings North			\$ 84,791		0.0%
Total Phase 6 Design	\$ 1,360,000	\$ 1,440,000	\$ 1,439,993	\$ -	0.0%
Utility and Construction Costs					
Phase 6 North Construction	\$ 4,790,000	\$ 6,615,000			
Preconstruction					
Construction					
Approved Change Orders					
FPL Design Cost					
ATT Design Cost					
Comcast Design Cost					
Utility Costs (FPL, Comcast, AT&T)					
Construction Engineering (KH)					
Total Phase 6 North Construction	\$ 4,790,000	\$ 6,615,000	\$ -	\$ -	0.0%
Phase 6 South Construction	\$ 10,270,000	\$ 12,298,000			
Preconstruction					
Construction					
Approved Change Orders					
FPL Design Cost					
ATT Design Cost					
Comcast Design Cost					
Utility Costs (FPL, Comcast, AT&T)					
Construction Engineering (KH)					
Total Phase 6 South Construction	\$ 10,270,000	\$ 12,298,000	\$ -	\$ -	0.0%
Easement Acquisition/Abandonment	\$ 400,000	\$ 447,000			
<i>Kimley Horn Easement Assistance</i>					
Easement Assistance			\$ 351,594		
Surveys					
Legal Sketch			\$ 58,415		
Jones Foster - Legal					
Recording Costs					
Easement Abandonment			\$ 36,344	\$ -	
Total Easement Acquisition Costs	\$ 400,000	\$ 447,000	\$ 446,353	\$ -	0.0%
Total Phase 6 Costs	\$ 16,820,000	\$ 20,800,000	\$ 1,886,346	\$ -	0.0%

Underground Utility Project Budget
Other Project Costs
November 30, 2019

Master Plan	Budget	Actual	% Expended
Task 1.1 - Data Collection & GIS Base Mapping	\$ 88,021	\$ 88,021	100.0%
Tash 1.1a Data Collection for Future Communications	\$ 23,511	\$ 23,511	100.0%
Task 1.2 - Conceptual Design and Master Plan	\$ 161,756	\$ 161,756	100.0%
Task 1.3 - Project Sequencing and Phasing	\$ 31,244	\$ 31,244	100.0%
Task 1.4 - Assessment of Traffic Impacts	\$ 77,660	\$ 77,660	100.0%
Task 1.5 - Project Delivery Methods	\$ 17,448	\$ 17,448	100.0%
Task 1.6 - Master Plan Document	\$ 45,053	\$ 45,053	100.0%
Task 1.7 - Meetings Master Planning Phase	\$ 113,135	\$ 113,123	100.0%
Task 1.8 - Master Plan Second Half	\$ 40,067	\$ 40,067	100.0%
Subtotal Master Planning	\$ 597,895	\$ 597,883	100.0%
Comcast Preplanning - Master Plan		\$ 12,015	
Community Outreach	\$ 282,519	\$ 206,046	72.9%
Peer Review Study - Patterson & Dewar (\$50,000 Offsetting Revenue)	\$ 100,000	\$ 100,000	100.0%
Total Other Project Costs	\$ 980,414	\$ 915,944	93.4%

Debt Service and Related Debt Issuance Costs

	Budget	Actual	% Expended
Commercial Paper Issuance Cost		\$ 195,366	
Commercial Paper Fees		\$ 52,252	
Commercial Paper Interest		\$ 243,096	
GO Bond Closing Costs		\$ 487,471	
GO Bond Debt Service	\$ 2,700,000	\$ 2,454,281	90.9%
Total Debt Service and Related Debt Issuance Costs	\$ 2,700,000	\$ 3,432,464	127.1%

Related Costs Outside of the Underground Project Budget

	Budget	Actual	% Expended
Costs paid from (307) Fund CIP			
Underground City of Lake Worth Section			
Project Design	\$ 25,231	\$ 24,430	96.8%
Project Construction	\$ 351,081	\$ 346,124	98.6%
Project Construction Engineering	\$ 11,607	\$ 12,849	110.7%
Utility Cost (FPL, Comcast, AT&T)	\$ 134,333	\$ 127,531	94.9%
Project Meeting Attendance	\$ 3,334	\$ 2,914	87.4%
Total Lake Worth Section	\$ 525,586	\$ 513,847	97.8%
Ibis Way PGD Improvements	\$ 14,583	\$ 14,583	100.0%
General Fund Costs			
Goldmacher v TPB Legal and Other Costs		\$ 183,701	
Kosberg v TPB Legal and Other Costs		\$ 516,238	
PBT Real Estate v TPB		\$ 159,182	
Gardner, Bist Bowden, Bush (Shef Wright)		\$ 24,799	
Temp Services - Easement acquisition	\$ 40,000	\$ 23,901	
Project Manager -Pay and benefits	\$ 315,000	\$ 310,416	98.5%
Telecommunications Consultant	\$ 89,000	\$ 83,210	93.5%
Peter Brandt (Contract Negotiations)	\$ 35,000	\$ 23,735	67.8%
Total Related Costs Outside of the Budget	\$ 1,019,169	\$ 1,853,611	181.9%

U.S. Rate Forecasts

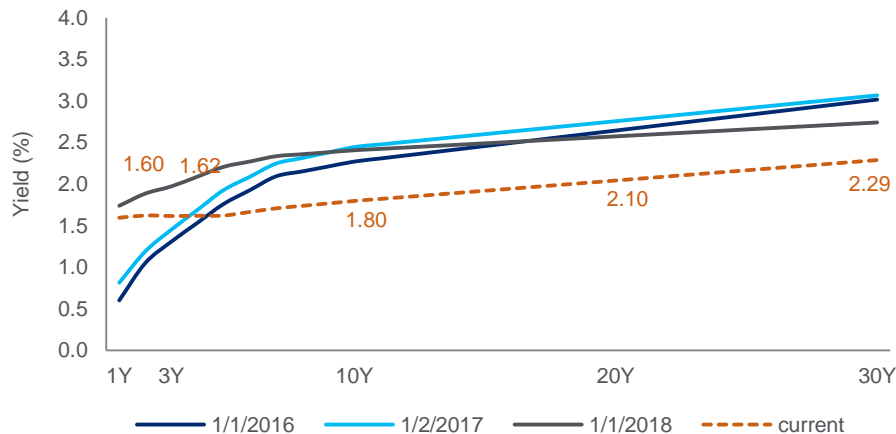
10-Year Treasury Yield Forecast

Citi and the street is forecasting a steady rate environment for the remainder of the year, with diverging rate forecasts in 2020



US Treasury Yield Curve

The yield curve remains inverted, but has steepened over the last week



Rate Forecasts

5-Year Treasury	Current	4Q19	1Q20	2Q20	3Q20	4Q20	1Q21
Citi's Forecast	1.59%	1.50%	1.33%	1.15%	0.98%	0.80%	0.80%
Economists' Consensus		1.50%	1.55%	1.62%	1.70%	1.70%	1.82%

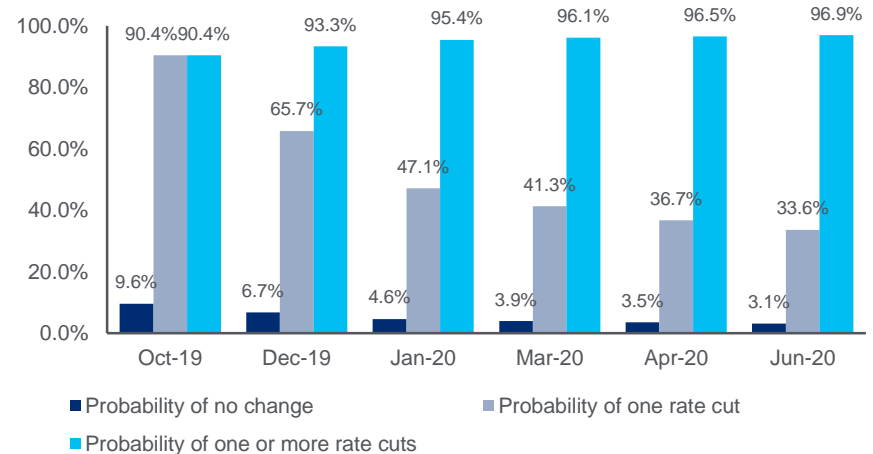
10-Year Treasury	Current	4Q19	1Q20	2Q20	3Q20	4Q20	1Q21
Citi's Forecast	1.76%	1.75%	1.63%	1.50%	1.38%	1.25%	1.25%
Economists' Consensus		1.65%	1.70%	1.77%	1.80%	1.90%	1.95%

30-Year Treasury	Current	4Q19	1Q20	2Q20	3Q20	4Q20	1Q21
Citi's Forecast	2.22%	2.25%	2.13%	2.00%	1.88%	1.75%	1.75%
Economists' Consensus		2.10%	2.12%	2.20%	2.25%	2.25%	2.35%

Fed Funds	Current	4Q19	1Q20	2Q20	3Q20	4Q20	1Q21
Citi's Forecast	2.00%	1.75%	1.75%	1.75%	1.75%	1.75%	1.75%
Economists' Consensus		1.75%	1.75%	1.63%	1.50%	1.50%	1.50%

Expectations of Fed Change in Interest Rates (Market View)

Investors currently anticipate a 90.4% chance the Fed will cut rates at its October 30 meeting, up from 86.3% last week



Source: Current rates and expectation of Fed hike as of October 25, 2019; Citi forecasts as of September 25, 2019, Bloomberg forecasts as of October 25, 2019.