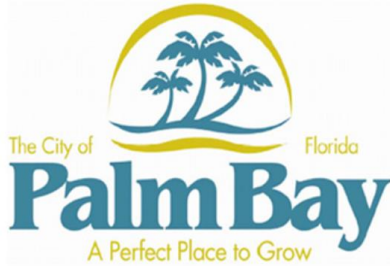


**Prepared for:**



**The City of Palm Bay**  
120 Malabar Rd,  
Palm Bay, FL 32907

**The City of Palm Bay**  
120 Malabar Rd,  
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# **Malabar Road PD&E**

from St. Johns Heritage Parkway to Minton Road  
Brevard County, Florida

**Financial Project Number: 437210-1-28-01**

## **Utility Assessment Package**

**October 2023**

# **FINAL DRAFT**

*The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being, or have been, carried out by the Florida Department of Transportation (FDOT) pursuant to 23 U.S.C. § 327 and a Memorandum of Understanding dated May 26, 2022, and executed by the Federal Highway Administration and FDOT.*

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## 1.0 INTRODUCTION

The Malabar Road Project Development and Environment (PD&E) Study evaluated capacity, safety, and multi-modal improvements on Malabar Road from St. Johns Heritage Parkway to Minton Road, a distance of approximately four miles, in the City of Palm Bay and Brevard County, Florida. Malabar Road is an east-west regional roadway connecting western Brevard County/City of Palm Bay to US 1 in Malabar. The roadway's maintaining jurisdiction is Brevard County at its western edge, before transitioning to the City of Palm Bay for several miles, and then becoming a state road (S.R. 514) between I-95 and US 1. Malabar Road has an existing diamond interchange with I-95. Within the study area, Malabar Road is an urban minor arterial. The study area is shown in [Figure 1](#).

### 1.1 Purpose of Utilities Assessment Package

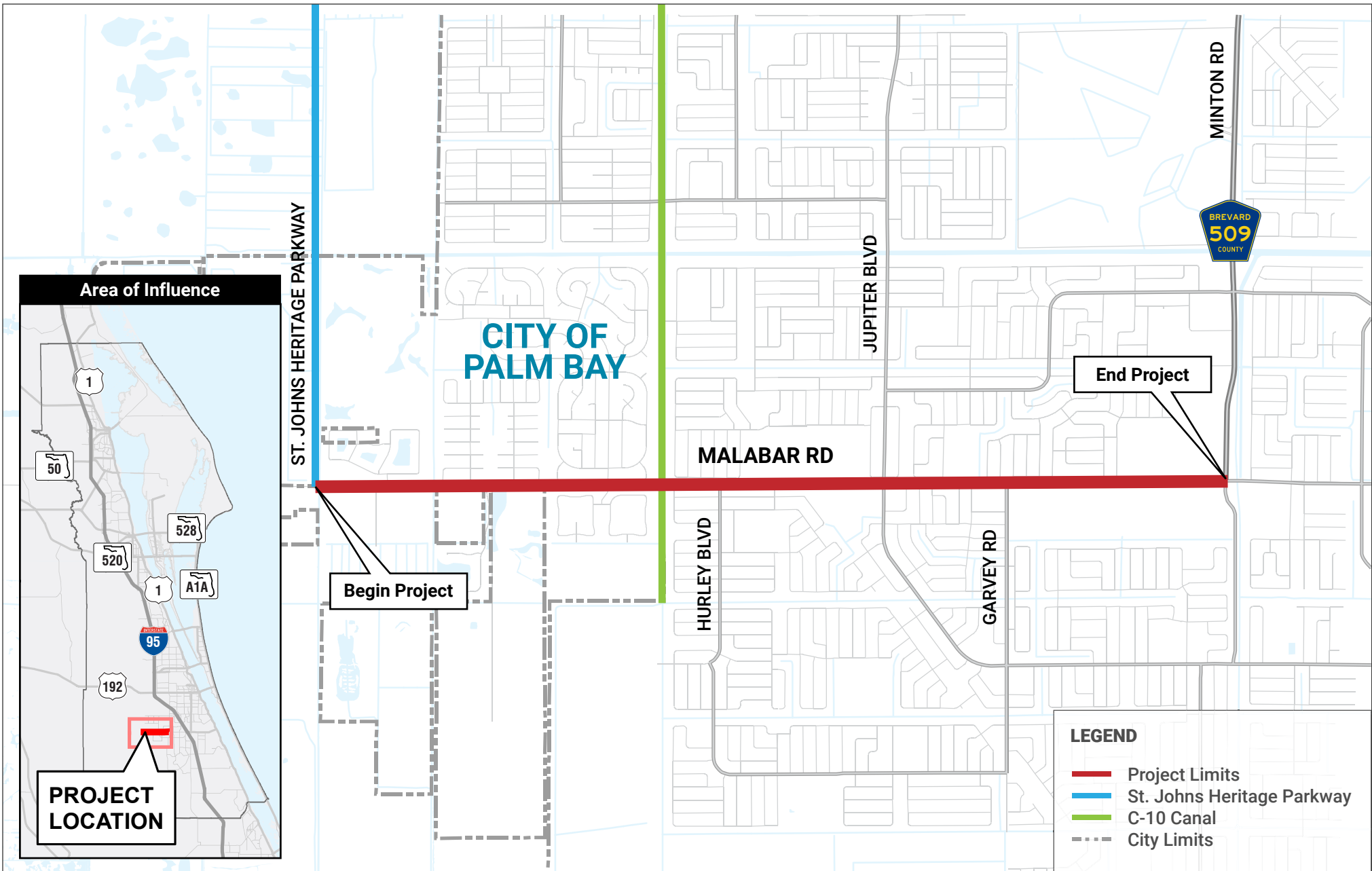
This utilities assessment package has been assembled to provide information on existing and planned utilities on Malabar Road from St. Johns Heritage Parkway to Minton Road. This package contains information on the names of utility companies, aerials denoting the location of major existing and proposed facilities, the description of each utility identified, and project coordination efforts.

### 1.2 Existing Roadway Facilities

Malabar Road within the project limits is a two-lane roadway. The section from St. Johns Heritage Parkway to Garvey Road is undivided, whereas the section from Garvey Road to Minton Road has median turn lanes. An 8' sidewalk is present on Malabar Road's north side for the entirety of the project limits. Minimal sidewalk is present on the south side. No on road bicycle facilities are present along the study limit's length.

There are currently four signalized intersections and numerous unsignalized intersections along the study corridor. The four signalized intersections are located at Krassner Drive/Bending Branch Lane, Jupiter Boulevard, the Plaza Shopping Center, and Minton Road.

This roadway is unique due to the surrounding canal system that is operated/maintained by the Melbourne-Tillman Water Control District (MTWCD). Malabar Road within the project limits crosses over four canals (C-7, C-8, C-9, and C-10). Canal C-20 runs parallel to Malabar Road on the north side from Canal C-10 (250' west of Bavarian Avenue) to approximately 0.30 miles west of Minton Road. One bridge, crossing over Canal C-10, is located within the project limits.



# Malabar Road PD&E Study

FPID: 437210-1-28-01

STUDY ROADWAY

**FIGURE 1**

### 1.3 Proposed Roadway Improvements

Two initial typical section alternatives were developed to support the Malabar Road purpose and need for capacity and safety improvements:

- Alternative A – Minimum right-of-way alternative
  - o 89.5' right-of-way alternative from the St. Johns Heritage Parkway to Canal C-10
  - o 92.5' right-of-way alternative from Canal C-10 to Sta. 256+80
- Alternative B – Desired right-of-way alternative
  - o 100' right-of-way alternative from the St. Johns Heritage Parkway to Canal C-10
  - o 103' right-of-way alternative from Canal C-10 to Sta. 256+80

Each of the initial typical sections were applied from the St. Johns Heritage Parkway to Sta. 256+80, which is just west of the Plaza Shopping Center where Malabar Road begins to transition to a four-lane roadway. The posted speed for each typical section alternative is 35 mph from St. Johns Heritage Parkway to Championship Circle, 45 mph from Championship Circle to east of Maywood Avenue/Daffodil Drive, and 35 mph from east of Maywood Avenue/Daffodil Drive to Minton Road. This maintains the existing posted speed limits.

The initial Malabar Road typical section alternatives were developed using design provisions from the Florida Greenbook and the FDOT Design Manual (FDM). Alternative A was developed to minimize the right-of-way impacts to residential properties on the south side of Malabar Road and minimize Canal C-20 impacts on the north side of Malabar Road east of Canal C-10. The following features are common between the 89.5' and the 92.5' typical sections:

- Two 11' travel lanes in each direction;
- 15.5' wide median, including Type E curb and gutter;
- Type F curb and gutter outside of the travel lanes; and
- 10' shared-use path on the north side and 6' sidewalk on the south side.
  - o The inside edge of the 6' sidewalk is at the back of curb.

The primary difference between the 89.5' and 92.5' typical sections is the presence of Canal C-20 on the north side of Malabar Road east of Canal C-10. In the 92.5' typical, an extra 3' is added on the north side for guardrail protection between the roadway and Canal C-20.

Alternative A utilized a smaller median width of 15.5' and a 6' south side sidewalk at the back of curb to reduce the overall right-of-way needed for the study corridor. A 15.5'

median does not meet the minimum 22' Florida Greenbook or FDM median widths for a 45 mph facility, thus a design variation would be needed if this alternative was to move forward. Alternative B increases the median width to a standard 22' median (including Type E curb and gutter) per FDM criteria. Alternative B also provides a 4' grass buffer between the south side curb and the sidewalk, which was not provided in Alternative A. The additional 6.5' in the median and 4' grass buffer on the south side equates to the 10.5' difference between the 89.5'/92.5' Alternative A typical sections and the 100'/103' Alternative B typical sections. The following features are common between the 100' and the 103' typical section alternatives:

- Two 11' travel lanes in each direction;
- 22' wide median, including Type E curb and gutter;
- Type F curb and gutter outside of the travel lanes;
- 10' shared-use path on the north side and 6' sidewalk on the south side; and
- 4' grass buffer between the back of the curb and the 6' south side sidewalk.

Similar to Alternative A, the 3' difference between the 100' and 103' typical sections is north side guardrail protection between the roadway and Canal C-20.

The Alternative A and Alternative B typical sections were presented at the Alternatives Public Meeting conducted on Thursday, September 24, 2020 and subsequent local jurisdiction meetings in October 2020. **Figure 2** through **Figure 9** provide a general view of the proposed typical sections for the project. During these meetings, discussion was held regarding the lack of on-road bicycle facilities being provided in the typical section alternatives. While adding on-road bicycle facilities was deemed not feasible by the study team due to the right-of-way and Canal C-20 impacts, widening the south side sidewalk to 8' was explored. A 10' shared-use path is already being proposed on the north side, so widening the south side sidewalk to 8' would provide a wider facility accommodating both pedestrians and bicycles. The 8' south side sidewalk was incorporated into the preferred alternative as shown in **Figure 6** through **Figure 9**. See the project typical section package for a more detailed evaluation of the project.

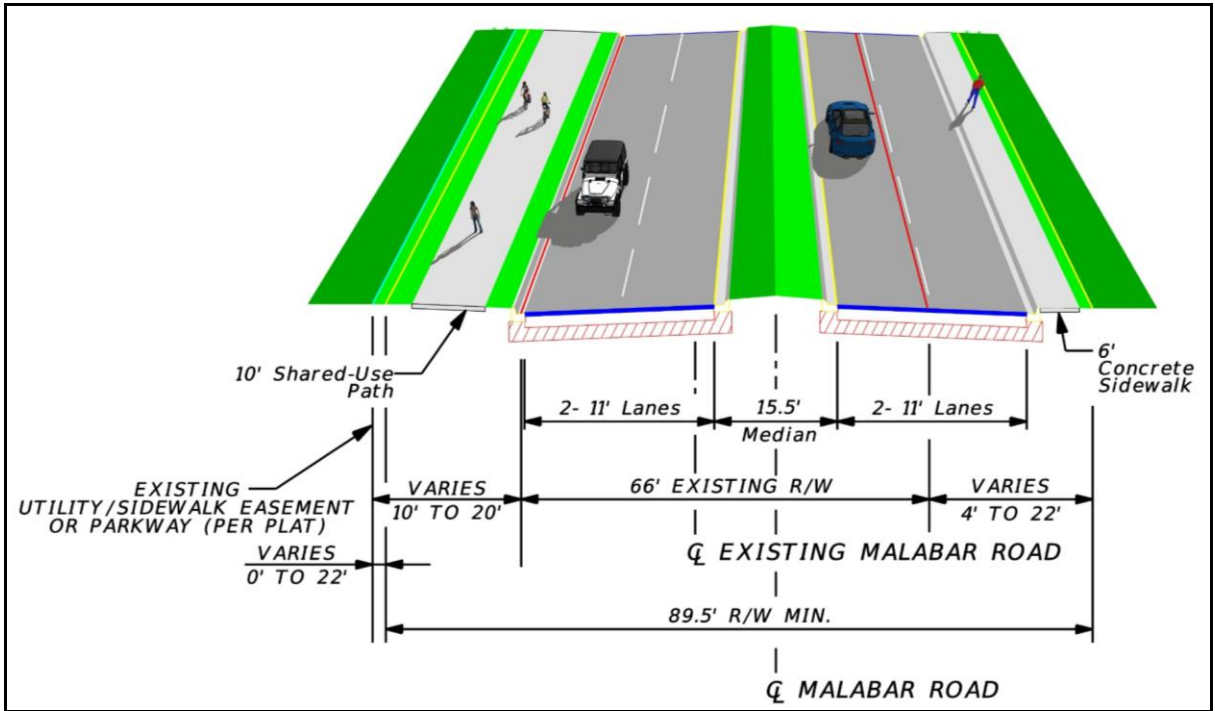


Figure 2: Alternative A Typical – St. Johns Heritage Parkway to Canal C-10

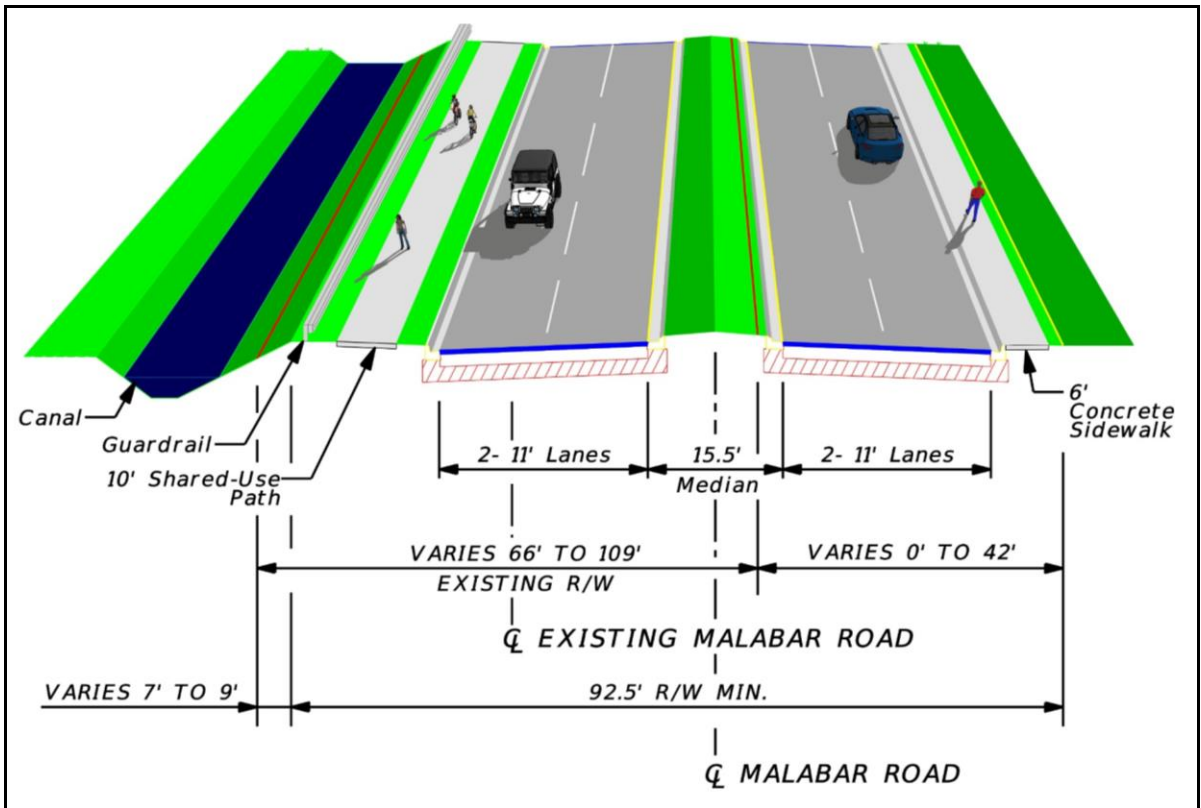


Figure 3: Alternative A Typical – Canal C-10 to Sta. 256+80

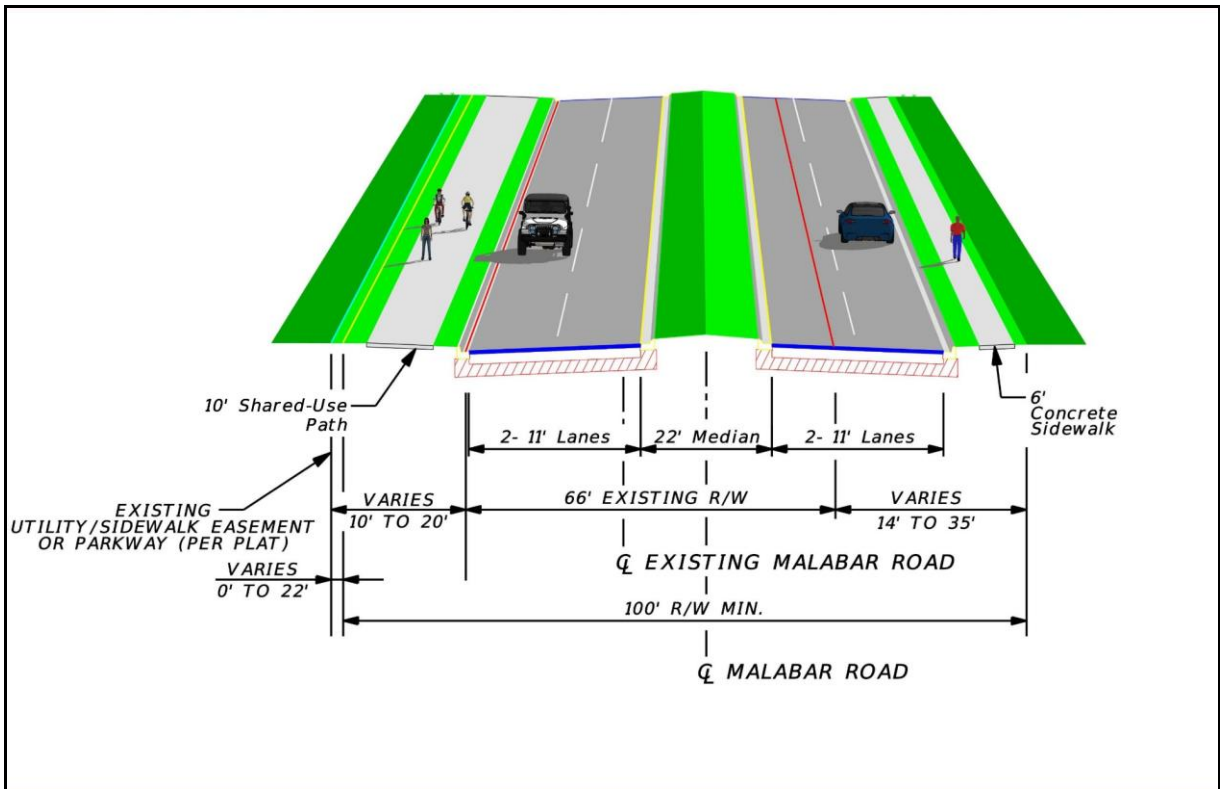


Figure 4: Alternative B Typical – St. Johns Heritage Parkway to Canal C-10

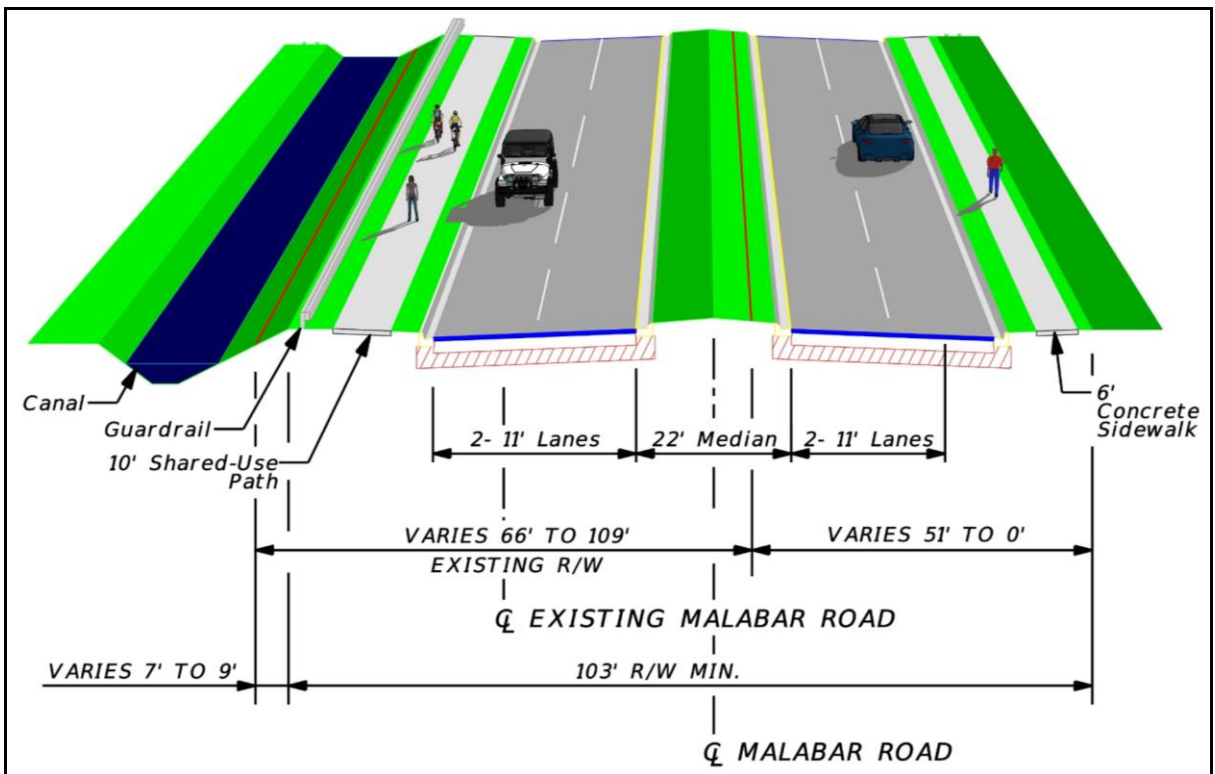


Figure 5: Alternative B Typical – Canal C-10 to Sta. 256+80



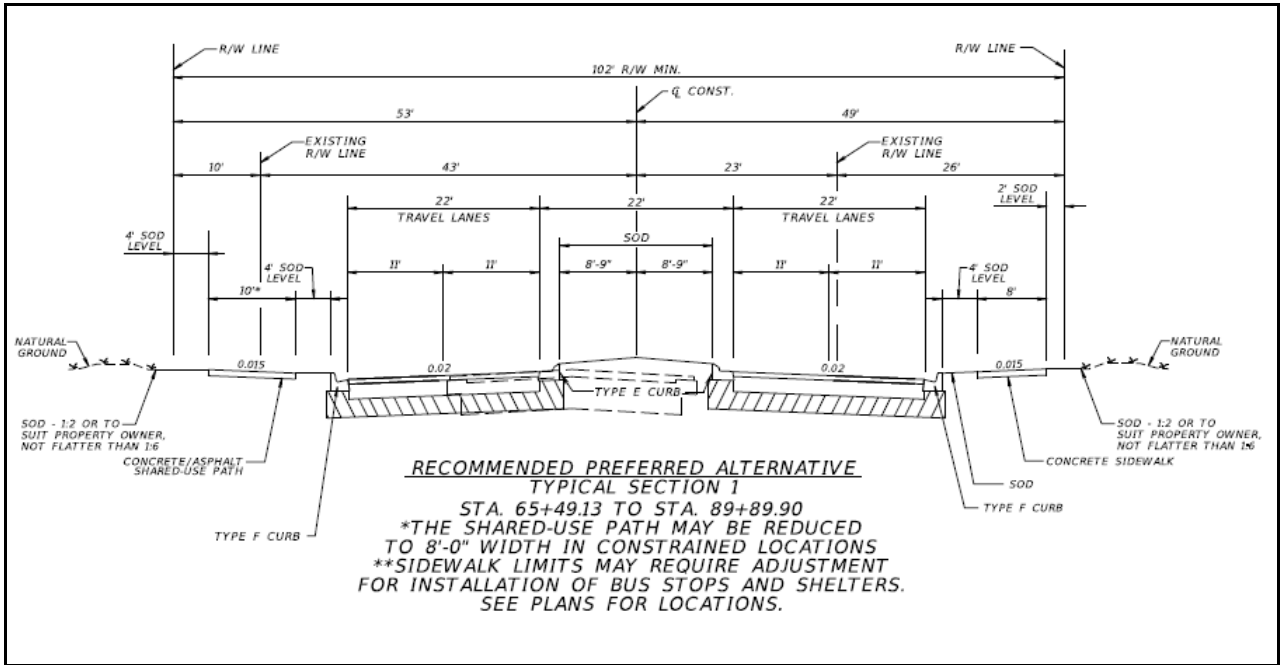


Figure 6: Recommended Preferred Alternative – St. Johns Heritage Parkway to Canal C-10

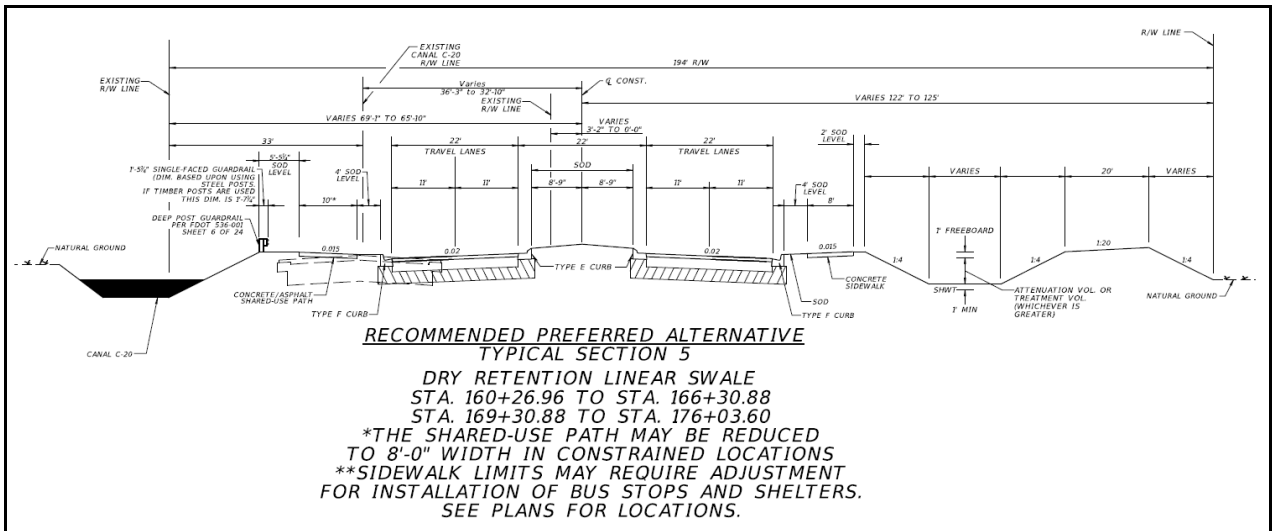


Figure 7: Recommended Preferred Alternative – Canal C-10 to West of Jupiter Boulevard

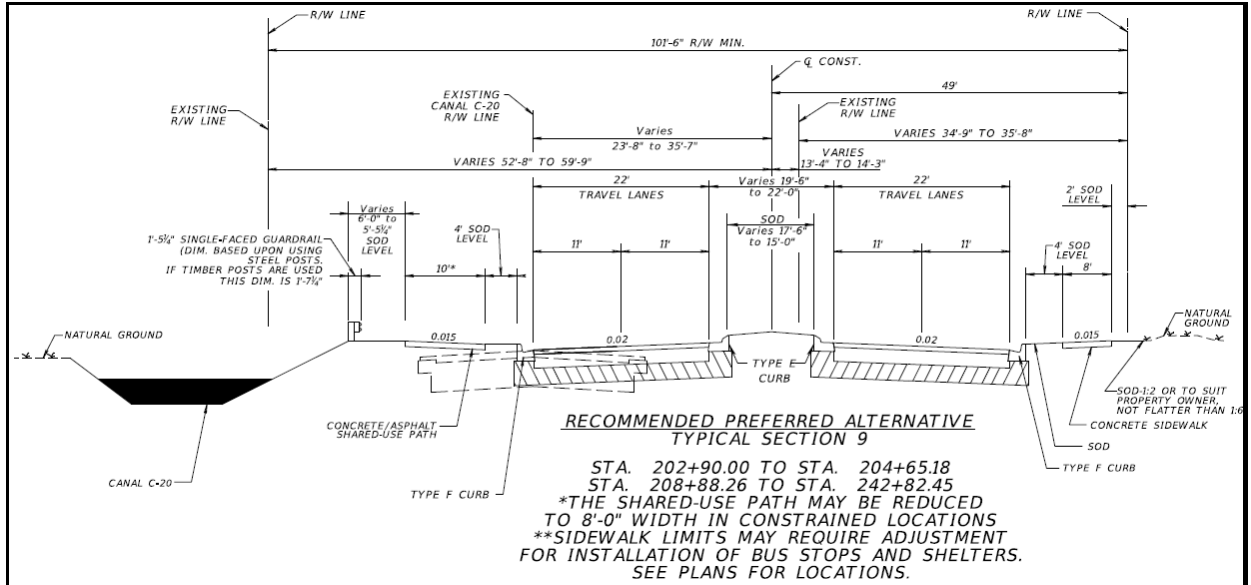


Figure 8: Recommended Preferred Alternative – East of Jupiter Blvd to Maywood Avenue/Daffodil Drive

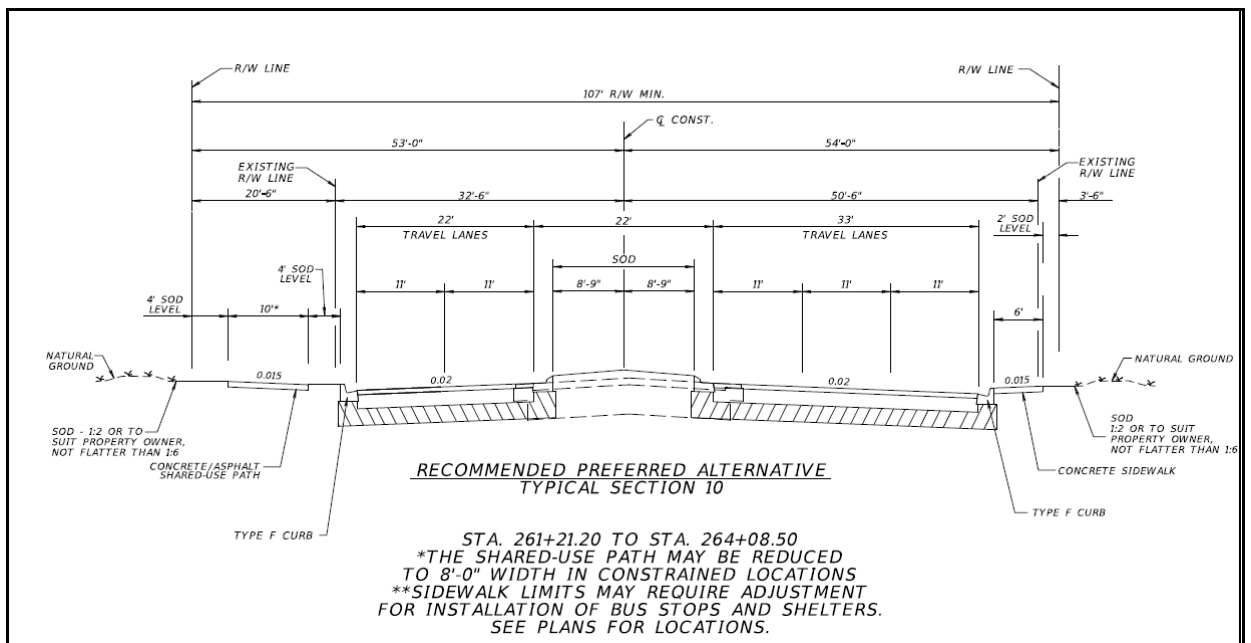


Figure 9: Recommended Preferred Alternative – West of Plaza Shopping Center

## 2.0 EXISTING UTILITIES

The Utility Agency/Owners (UAOs) in the study area were determined using a variety of sources. First, a Sunshine 811 Design Ticket was made to identify the utility providers and operators registered with the locate service. All utilities were verified with the utility providers and operators during the coordination process for the project. A list of the UAOs identified on the project are summarized in [Table 1](#).



**Table 1** Summary of Utility Contact Information

Company	Contact	Email Address	Phone #	Utilities in Corridor
AT&T Distribution	Luke Folkerts	LF2490@att.com	407-496-6041	Yes
Bright House Networks, LLC	Paul Rymer	Paul.Rymer@charter.com	321-757-6503	Yes
City of Palm Bay Utilities Department	Christopher Little	Christopher.little@palmbayflorida.org	321-952-3410	Yes
Crown Castle Fiber	Danny Haskett	Danny.Haskett@crowncastle.com	786-246-7827	Yes
Florida Power and Light-Distribution	Andrew Zicker	AndrewZicker@fpl.com	321-726-4833	Yes
Florida Power and Light-Transmission	Beau Bentley	Beau.Bentley@fpl.com	803-835-5982	Yes
Hotwire Communications	Eddie Miranda	EMiranda@Hotwiremail.com	321-710-1733	Yes
Uniti Fiber LLC	James Mosley	James.Mosley@uniti.com	251-654-8216	Yes

## 2.1 Utility Owners/Providers and Locations

All of the utility providers and operators were contacted in March 31, 2020 and were provided aerial maps of the project for review. Copies of these coordination letters can be found in [Appendix 1](#). Based on the aerial maps, UAOs were asked to assist in locating and identifying their existing and planned facilities within the area of study. Through mark-ups and/or verbal descriptions, most utility providers or operators provided information on the location and type of existing facilities and information on the planned facilities anticipated in the future. At the time of utility contact efforts, none of the UAOs indicated any future planned facilities or upgrades to existing facilities within the project limits. The responses from the utility providers are found in [Appendix 2](#). A description of the existing facilities and associated relocation costs are outlined in [Table 2](#).

**Table 2** Existing Utilities and Estimated Relocation Cost

Company	Description	Relocation Cost
AT&T Distribution	<ul style="list-style-type: none"> <li>Multiple buried, overhead and other lines on both the north and south sides of Malabar Rd.</li> </ul>	\$3,312,042
Bright House Networks, LLC	<ul style="list-style-type: none"> <li>Existing overhead and buried CATV on north and south side of Malabar Rd</li> </ul>	\$755,235
City of Palm Bay Utilities Department	<ul style="list-style-type: none"> <li>Existing 16" sewer force main south of Malabar Rd.</li> <li>Approximately 1,200 ft of existing 8" sanitary sewer runs parallel to the south side of Malabar Rd. west of Minton Rd.</li> <li>Existing 16" – 20" water on north side of Malabar Rd.</li> </ul>	\$6,882,360
Crown Castle Fiber	<ul style="list-style-type: none"> <li>Existing two 1.5" HDPE Conduits cross Malabar Rd. near STA. 175+50</li> </ul>	\$20,000
Florida Power and Light Transmission	<ul style="list-style-type: none"> <li>Existing 230 kV transmission line crosses Malabar Rd. just west of Jupiter Blvd. NW</li> <li>Existing 230 kV transmission line crosses Malabar Rd. west of Bavarian Ave. SW</li> </ul>	\$12,000
Florida Power and Light Distribution	<ul style="list-style-type: none"> <li>Existing distribution line on south side of Malabar Rd. until slightly west of Jupiter Blvd. NW where the distribution line crosses Malabar Rd and runs along the north side of Malabar Rd. until it reaches Minton Rd. where it crosses Malabar again and runs on the south side</li> </ul>	\$2,688,562
Hotwire Communications	<ul style="list-style-type: none"> <li>Permitted and approved for the installation of (1) 3" conduit by directional bore along the south side of Malabar Road crossing C-10 (229' R/W width) with a depth below the canal bottom of fourteen feet. The bore will run for approximately 340 feet on the south side of Malabar Road Bridge #704004.</li> </ul>	\$33,150
Uniti Fiber LLC	<ul style="list-style-type: none"> <li>Existing three - 1.25" black ducts wit 96ct FOC beginning at STA 182+50 to STA 272+50.</li> <li>Small aerial portion beginning at STA. 272+50 and continuing through the end of the job</li> <li>At STA. 271+00 the ducts cross Malabar Rd.</li> </ul>	\$950,000

### 3.0 UTILITY MITIGATION AND COST

Due to the nature of the existing conditions throughout the project corridor, it is anticipated that the widening of Malabar Road will impact a large number of the existing utility facilities on the project. The extent of the widening, anticipated right-of-way acquisition, and related improvements are shown on the recommended alternative conceptual plans included in [Appendix 3](#). Mitigation measures would be taken during

the design phase of the project to minimize impacts to the existing utilities to the fullest extent possible. However, with Canal C-20 on the north side, all utilities conflicts on the south side will be unavoidable and design alternatives would be reviewed to allow for relocation of impacted facilities in a manner that minimizes cost to the UAO and disruption to their customers.

Since relocations of facilities located in easements would likely be eligible for reimbursement if impacted, all measures will be taken to avoid impacting facilities identified in lands of compensable interest. **Table 3** outlines companies that have been identified as having potential easements on the project. Utility coordination should be performed during the design phase of the project to clearly identify all utility easements and potential reimbursable relocations on the project.

**Table 3** Summary of Potential Utility Easements Identified

Company	General Easement Description
AT&T	<ul style="list-style-type: none"> <li>• Buried fiber on South side of Malabar from Snapdragon Dr. NW (STA. 79+00) to west of Thunderbird Ave. NW (STA 90+00) is in an easement</li> <li>• At Allison Dr. (STA 101+50) buried fiber enters an easement and continues in an easement until Bending Branch Way (STA. 129+00)</li> <li>• At Watoga Ave SW (STA. 167+50), buried fiber enters an easement until just west of Fleet Maintenance Dr. (STA 176+00)</li> <li>• Just west of Transportation Blvd (STA 182+00), aerial fiber enters an easement until it is perpendicular to Shalimar Ave. NW (STA 193+00)</li> <li>• Buried fiber runs in an easement from Jupiter Blvd SW (STA 193+00) to White Rd. SW (STA 198+20)</li> <li>• Buried fiber runs in an easement from Tile Ave. SW (STA 204+10) to Ware Ave. SW (STA 210+00)</li> <li>• Buried fiber run in easements on either side of Madalyn Landing Apartments (STA 221+50 and STA 229+00)</li> <li>• Conduit and buried fiber run in an easement from just west of Daffodil Dr. SW (STA 246+00) to west of Minton Rd. SE (STA 271+00)</li> </ul>
Bright House	<ul style="list-style-type: none"> <li>• Overhead CATV in Tract D, Parcel 29-36-03-26-D, D R Horton, Jacksonville, STA 116+20 to STA 139+80</li> <li>• Tract F, Parcel 28-36-33-50-F, Parkside West Homeowners Association, STA 79+20</li> <li>• Tract K, Parcel 29-36-03-26-K, Brevard County, STA 129+00</li> <li>• Tract J, Parcel 29-36-03-26-J, Brevard County, STA 129+00</li> <li>• FP&amp;L 110' Right of Way, STA 139+80</li> <li>• 2901354, 31/982, JD Valor LLC, STA 170+60</li> <li>• Tract B, City of Palm Bay, STA 182+00 to STA 184+00</li> <li>• Sookram/High Tech Development Group Inc., STA 202+60</li> <li>• 46' per ORB 7951/559, STA 234+50 to STA 238+50</li> <li>• 2816707 Palmer 5812/9775, STA 260+20 to STA 261+25</li> <li>• Canal 20, STA 175+00 to STA 204+00</li> </ul>

Company	General Easement Description
	<ul style="list-style-type: none"> <li>• 2901961, City of Palm Bay, STA 207+50</li> <li>• Rockland Homes Inc./Forsythe, STA 211+75</li> <li>• Madalyn Landing Apartments, STA 226+00</li> <li>• Space Coast Credit Union, STA 265+80 to STA 267+20</li> <li>• 2862033 175 N. Malabar Rd. LLC Occupied, STA 264+50 to STA 267+20</li> <li>• 2816704 Coral Bay Center LLC Occupied, STA 261+25 to STA 264+50 and 267+30 to STA 267+80</li> <li>• 2816702 Murillo Occupied, STA 267+80 to STA 271+00</li> <li>• 2964948 Palm Bay, STA 247+00</li> <li>• 2900108 Palm Bay Storage 18 fl LLC, STA 256+90</li> <li>• 60' Drain and Maint. Easement, STA 255+20 to STA 260+20</li> <li>• 2961715 Sarpoolaki, STA 260+40</li> <li>• F&amp;H Properties Limited Partnership Bennett Auto Supply, STA 267+20 to STA 267+30</li> <li>• Thomas Trust 2959197 STA 271+00 to STA 273+20</li> </ul>
City of Palm Bay Utilities	<ul style="list-style-type: none"> <li>• Melbourne Tillman Drainage District Canal No. 7, STA 88+50 to STA 89+90</li> <li>• Canal 20 ROW, STA 156+40 to STA 206+50</li> <li>• City of Palm Bay, 2902930, STA 182+50</li> <li>• Platt 2900122, STA 229+90</li> <li>• The Falls of Palm Bay, 2900121, STA 233+00</li> <li>• AutoZone, 2959859, STA 258+00</li> <li>• Palm Bay Shopping Plaza LLC, 2900107, STA 260+40 to STA 264+40</li> <li>• 60' Drainage and Maintenance Easement, STA 255+00 to STA 265+20</li> <li>• Dollar General/National Retail Properties LP 10' per ORB 6285/207, STA 258+00</li> </ul>
Crown Castle	<ul style="list-style-type: none"> <li>• 2902930 City of Palm Bay, near FP&amp;A R/W, STA 175+50 to STA 178+50</li> </ul>
Florida Power and Light Distribution	<ul style="list-style-type: none"> <li>• Tract I, Parcel 28-36-33-50-I, STA 75+80 to STA 78+10</li> <li>• Tract F, Parcel 28-36-33-50-F, STA 79+00 to STA 81+90</li> <li>• Championship Circle NW Parcel 28-36-33-00-251, STA 87+50 to STA 88+20</li> <li>• Parcel 28-36-33-01-1880-6/Parcel 28-36-33-01-1880-7, STA 96+60</li> <li>• Malabar Lakes Homeowners Association Inc., Parcel 29-36-04-01-*-B, STA 102+30</li> <li>• Tract K, Parcel 29-36-03-26-K, Brevard County and Tract L, Parcel 29-36-03-25-L, STA 119+40 to STA 139+80</li> <li>• Tract D, DR Horton, STA 121+80</li> <li>• Parcel 29-36-03-26-*-84, Justin Beeler, STA 124+50</li> <li>• Florida Power and Light, Parcel 28-36-34-00-251, STA 139+70</li> <li>• Brevard County, Parcel 29-36-03-25-K, STA 139+70</li> <li>• Melbourne Tillman Drainage District Canal 10 ROW, STA 139+60 to STA 143+10</li> </ul>

Company	General Easement Description
	<ul style="list-style-type: none"> <li>• Florida Power and Light ROW, STA 174+40 to STA 178+00</li> <li>• City of Palm Bay Tract B 2902933, STA 174+40 to STA 175+50, STA 182+90</li> <li>• Canal 20, STA 180+10 to STA 208+00</li> <li>• ORB 8568/1080, STA 195+70</li> <li>• Circle K Stores 2901312, STA 195+70</li> <li>• Sookram Vacant 2901943 22/1009, STA 202+75</li> <li>• High-tech Development Group Inc. Vacant 2901922 1/1009, STA 202+75</li> <li>• City of Palm Bay 2901962 5/1011, STA 208+00</li> <li>• Forsythe Vacant 2901985 1/1012, STA 211+70</li> <li>• Canal 20 ROW, STA 230+10 and STA 233+10</li> <li>• Davis 2815413 ORB 4542/2349, STA 215+10</li> <li>• 45' per ORB 7951/559, STA 237+90 and STA 240+40</li> <li>• The Falls of Palm Bay, 2900121, STA 237+90 and STA 240+40</li> <li>• Palm Bay, 2964948, STA 247+00</li> <li>• Southern Malabar Cove, 2964738, STA 247+00</li> <li>• Palmer, 2816707, 5812/9775, STA 260+20 to STA 261+30</li> <li>• ORB 7123/2980, STA 253+70</li> <li>• Senior Care Living LLC, 2900112, STA 253+70</li> <li>• Palm Bay Storage 18fl LLC, 2900108, STA 256+80</li> <li>• 50' ROW per ORB 3038/526, STA 251+45, STA 271+10, STA 272+05</li> <li>• Palm Bay Shopping Plaza LLC, 2900107, STA 251+45</li> <li>• Coral Bay Center LLC, 2816706, STA 251+50 to STA 254+50</li> <li>• 60' Drain and Maint. Easement, STA 271+10 and STA 272+05</li> </ul>
Florida Power and Light Transmission	<ul style="list-style-type: none"> <li>• Florida Power and Light ROW, STA 140+20</li> <li>• 2902930 City of Palm Bay, STA 175+00 to STA 176+00</li> <li>• Canal 20, STA 174+00 to STA 175+00</li> <li>• Unit 26, STA 172+00 to STA 174+00</li> </ul>
Hotwire Communications	<ul style="list-style-type: none"> <li>• Buried conduit crosses Melbourne Tillman Drainage District Canal No. 10 229' Right of Way</li> </ul>

## **Appendix 1 Utility Contact Letters**

---

**From:** David Ledgerwood <dledgerwood@inwoodinc.com>

**Sent:** Tuesday, March 31, 2020 9:44 PM

**To:** Christopher.little@palmbayflorida.org; sue.williams@fpl.com; patricia.Dannunzio@fpl.com; danny.haskett@crowncastle.com; EMiranda@Hotwiremail.com; COUGHLIN, BRYAN <bc1173@att.com>; michel-lee.chapuseaux@uniti.com; bob.mensching@uniti.com; Paul.Rymer@charter.com

**Subject:** 437210-1 Malabar Rd PD&E Study - Utility Submittal

**This contact is being done completely electronically, but if you need anything in a hard copy format or an electronic copy of the plans, please let me know.**

**FP ID: 437210-1-22-01**

**Road: Malabar Road**

**County: Brevard**

**Description: St. Johns Heritage Parkway to Minton Road Improvements Study**

Inwood Consulting Engineers has been selected to represent the City of Palm Bay in utility coordination between the City and your agency on the above referenced project. Please address all correspondence, verbal and written to Inwood.

In an effort to better coordinate the selection of corridor alternatives and their impact on utilities, I am providing (attached) for your review the project base maps and project location map to be used to identify your existing facilities on the project.

I am requesting you to provide/prepare a rough cost estimate for relocation of your facilities (per mile basis is acceptable), indicating the impact you anticipate with your facilities. Also, please mark-up and return one (1) set of maps indicating the location, size and type, etc., of your existing and proposed facilities. The mark-up should also identify all known **EASEMENTS** or other lands of ownership rights. If your company does not have any facilities within the project limits, you may respond to this email stating this fact.

In your correspondence to my office, please make reference to the FPID, county road number, and description as listed above. This information will need to be returned by **Friday May 1, 2020**.

Thank you for your cooperation. The City will make sure the information, which you have furnished, will be considered prior to establishing future corridor(s). Please feel free to contact me should you have any questions regarding the project or need any additional information.

Thank you.

**David Ledgerwood, PE**

**UTILITY COORDINATOR**

**INWOOD CONSULTING ENGINEERS**

3000 Dovera Dr., Suite 200, Oviedo, FL 32765

Office: 407-971-8850

Fax: 407-971-8955

Cell: 407-625-9808

[dledgerwood@inwoodinc.com](mailto:dledgerwood@inwoodinc.com)

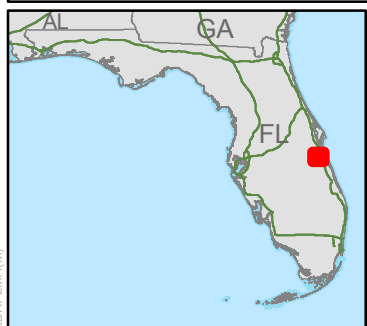
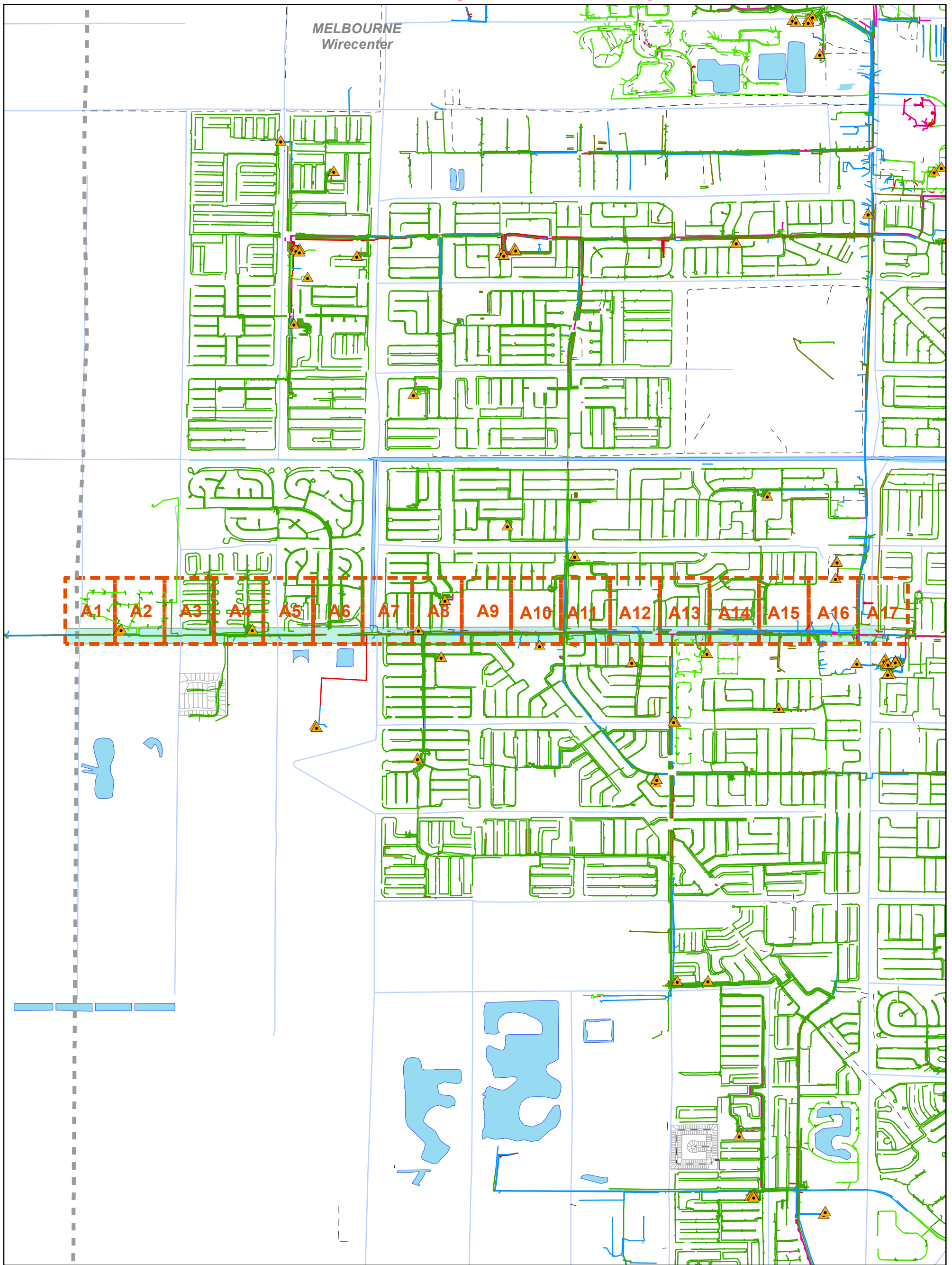
## **Appendix 2 Utility Responses**



## **AT&T Distribution**



## Malabar Rd Btwn St Johns Heritage And Minton Project



1:33,042



- Remote Terminals
- Aerial
- Buried
- Underground
- Other
- Conduit
- Mapping Index
- Wirecenter Boundary
- JobAOI

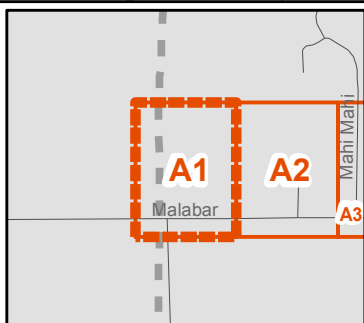
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## Malabar Rd Btwn St Johns Heritage And Minton Project



1:1,820



- Manholes
- Foreign Poles
- Aerial
- Buried
- Other
- Mapping Index
- Wirecenter Boundary
- - - Street Centerlines
- Parcels

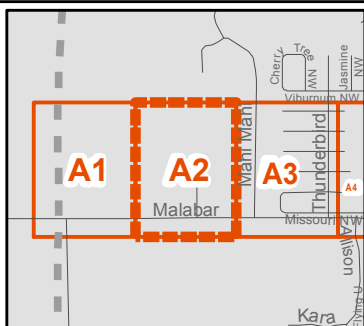
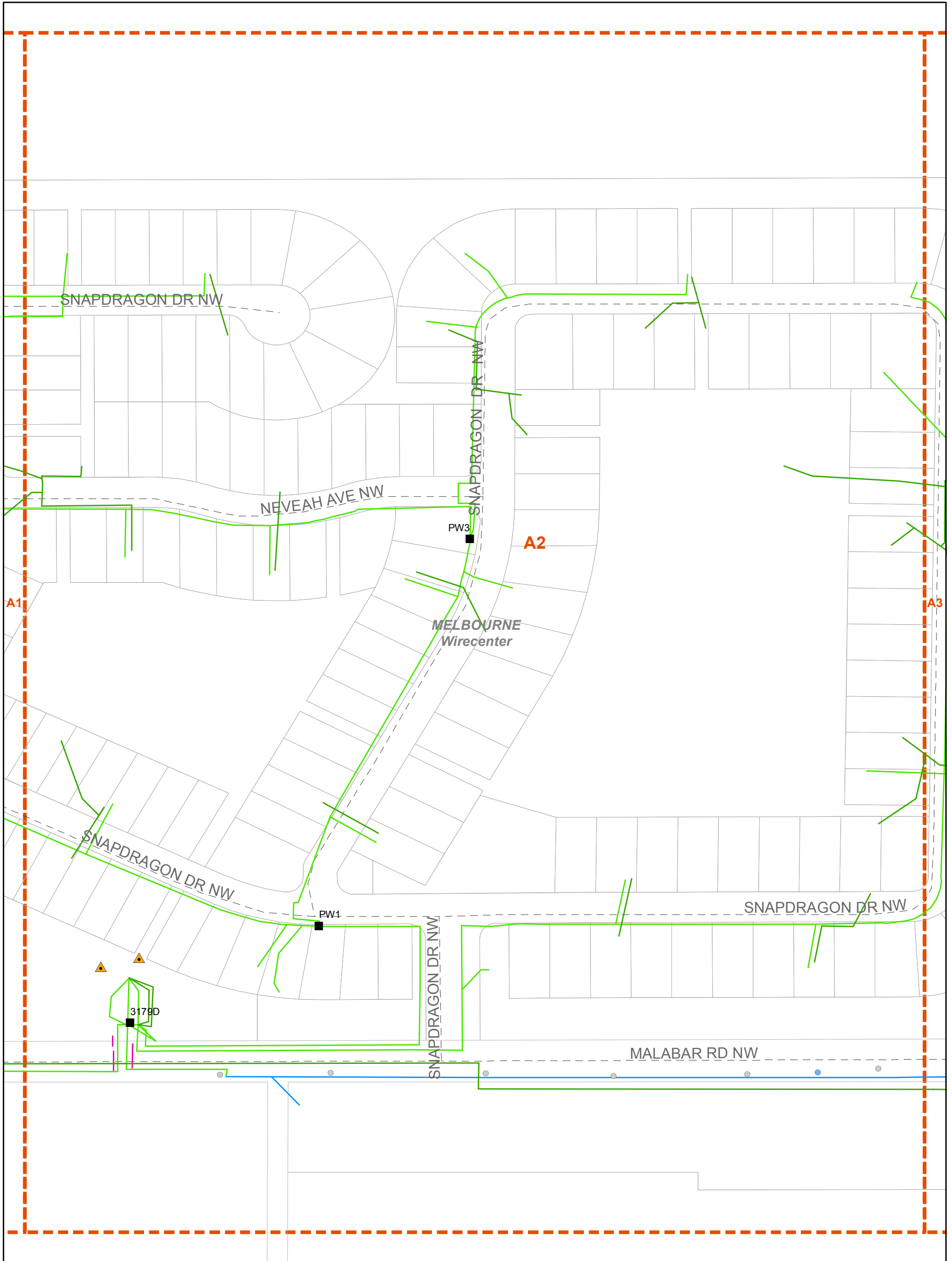
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## Malabar Rd Btwn St Johns Heritage And Minton Project



1:1,820



- Manholes
- ▲ Remote Terminals
- Company Poles
- Foreign Poles
- Buried
- Mapping Index
- Wirecenter Boundary
- - - Street Centerlines
- Parcels

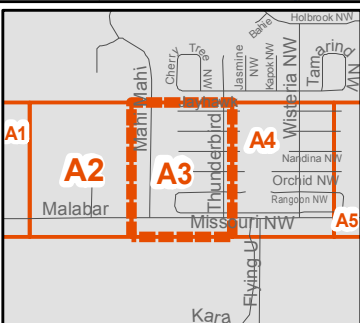
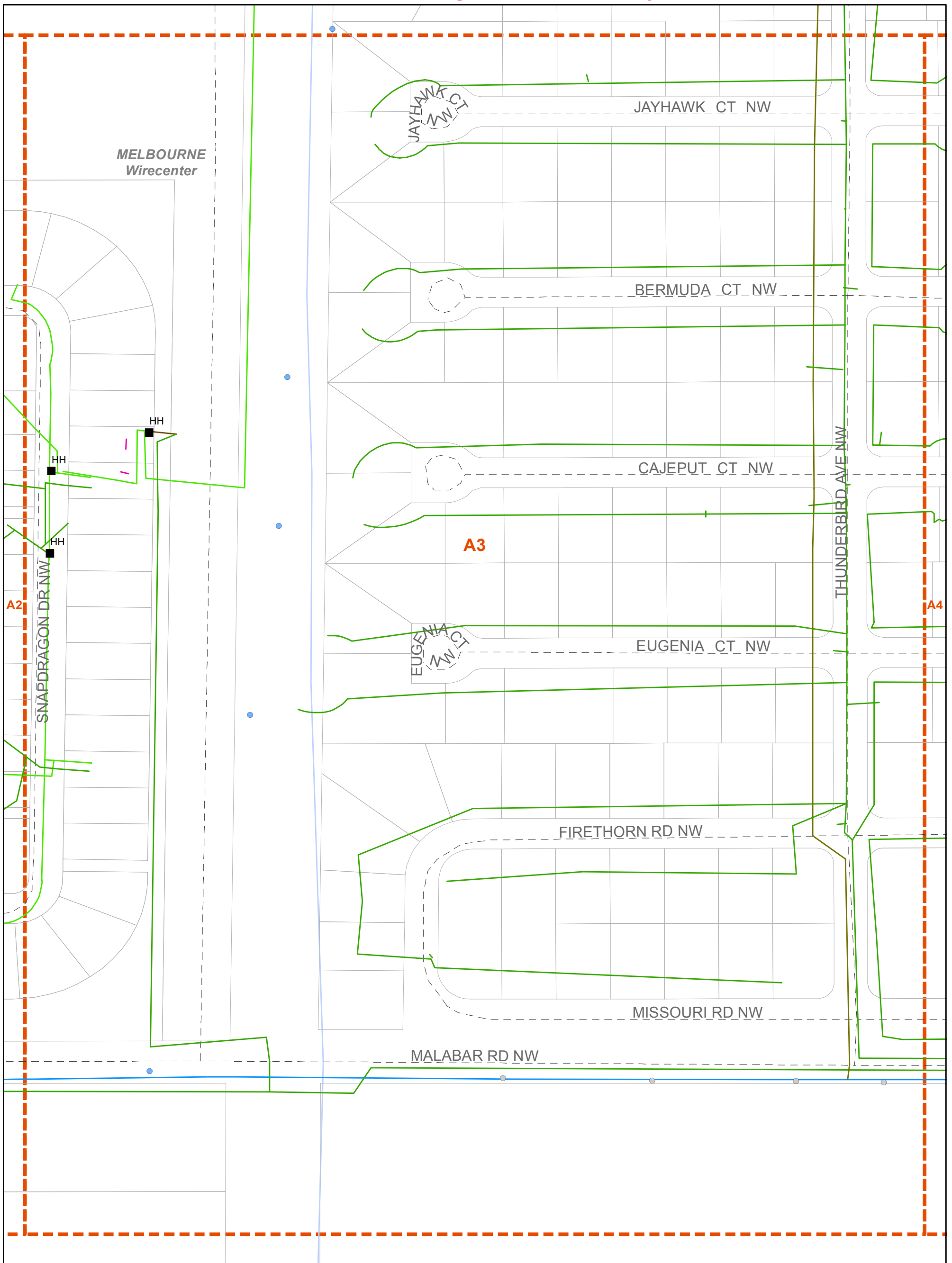
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## Malabar Rd Btwn St Johns Heritage And Minton Project



1:1,820



- Manholes
- Company Poles
- Foreign Poles
- Buried
- Other
- Mapping Index
- Wirecenter Boundary
- - - Street Centerlines
- Parcels

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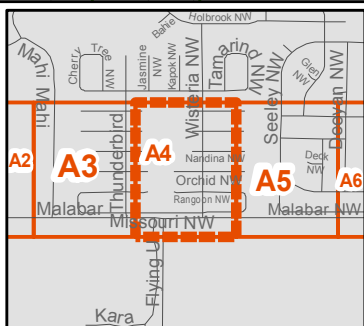
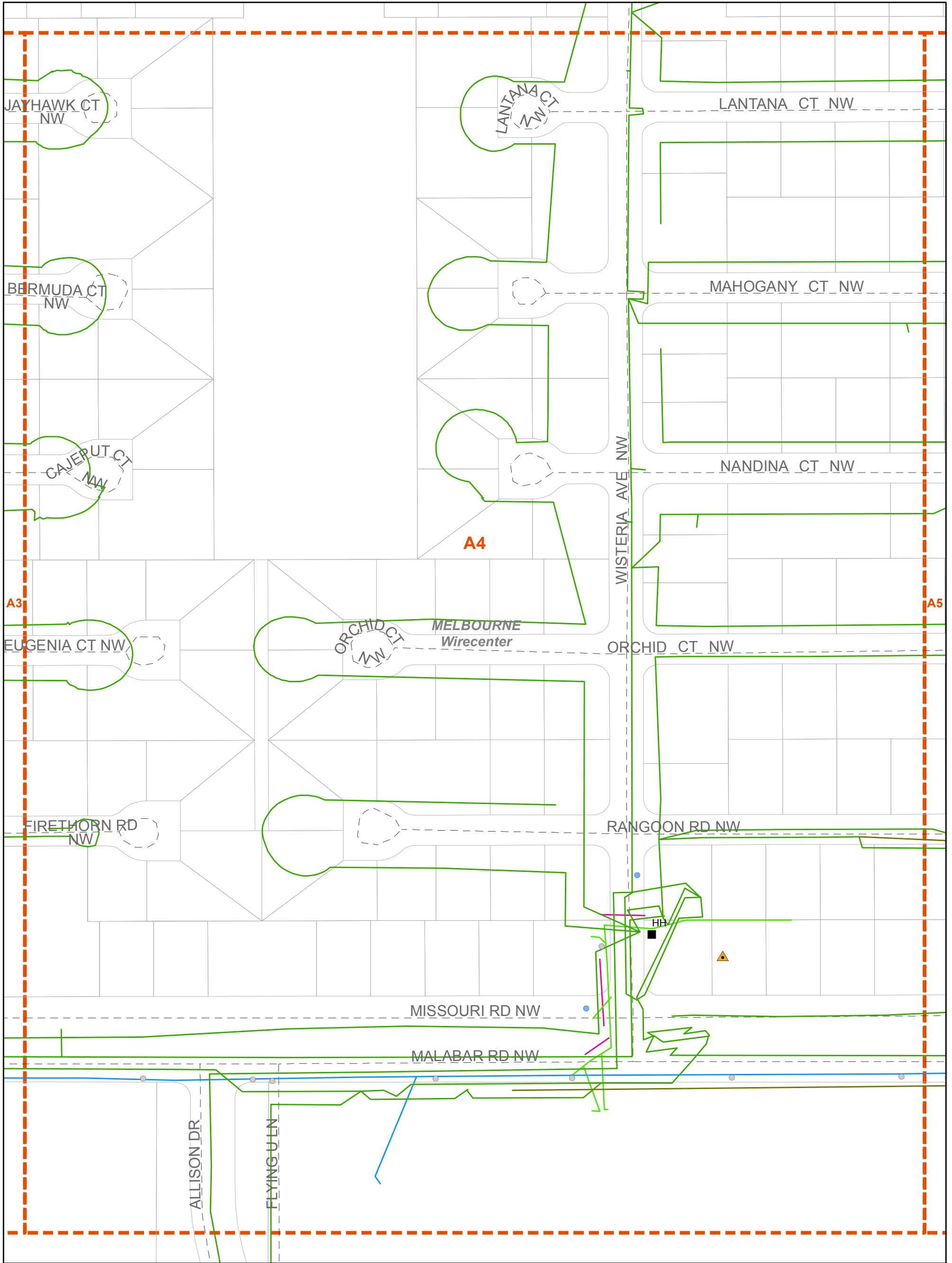
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## Malabar Rd Btwn St Johns Heritage And Minton Project



1:1,820



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- Buried
- Other
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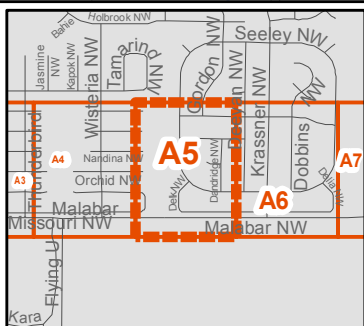
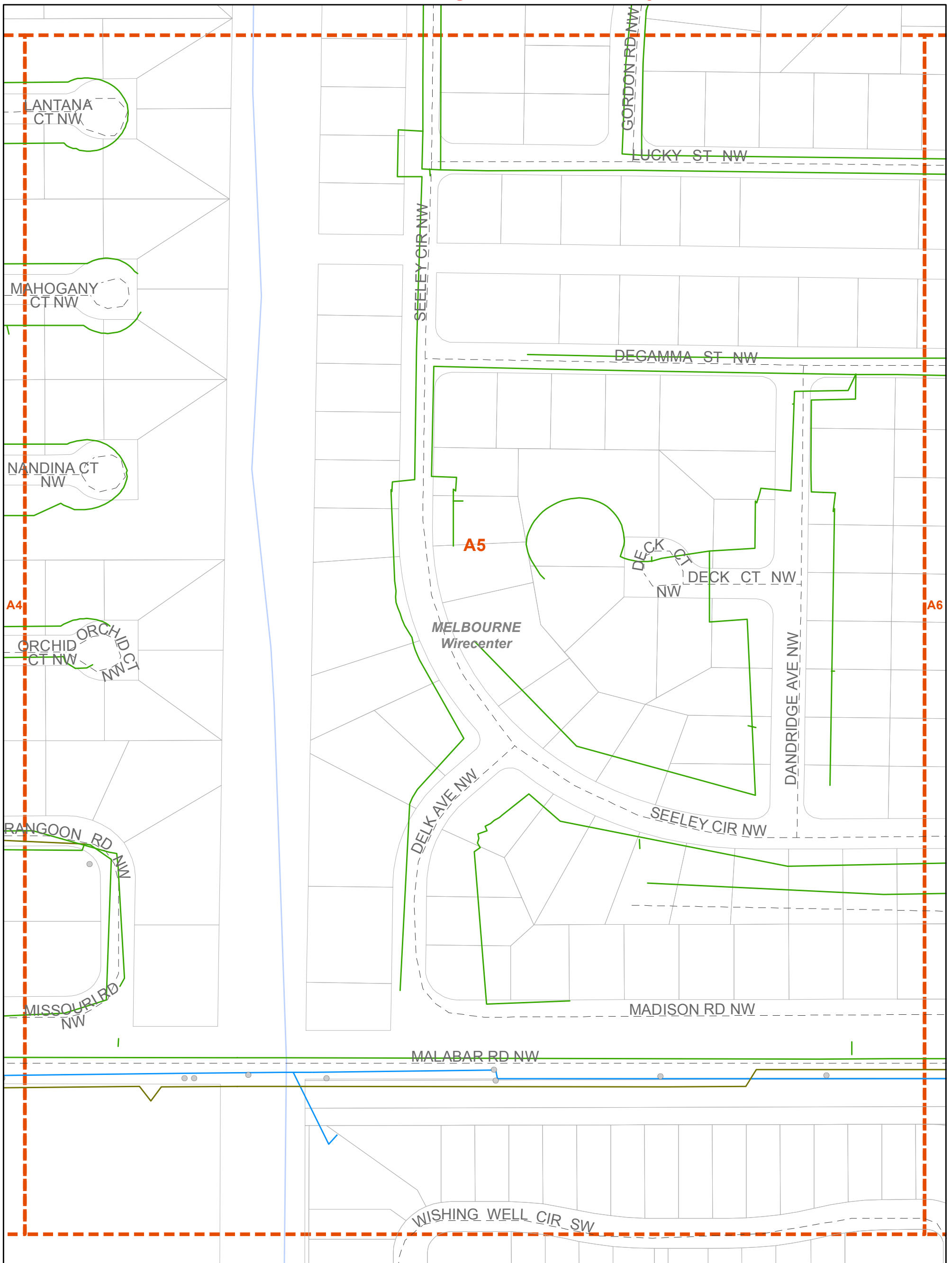
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## Malabar Rd Btwn St Johns Heritage And Minton Project



1:1,820



- Foreign Poles
- Buried
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- Street Centerlines
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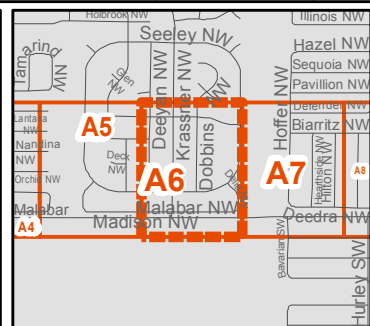
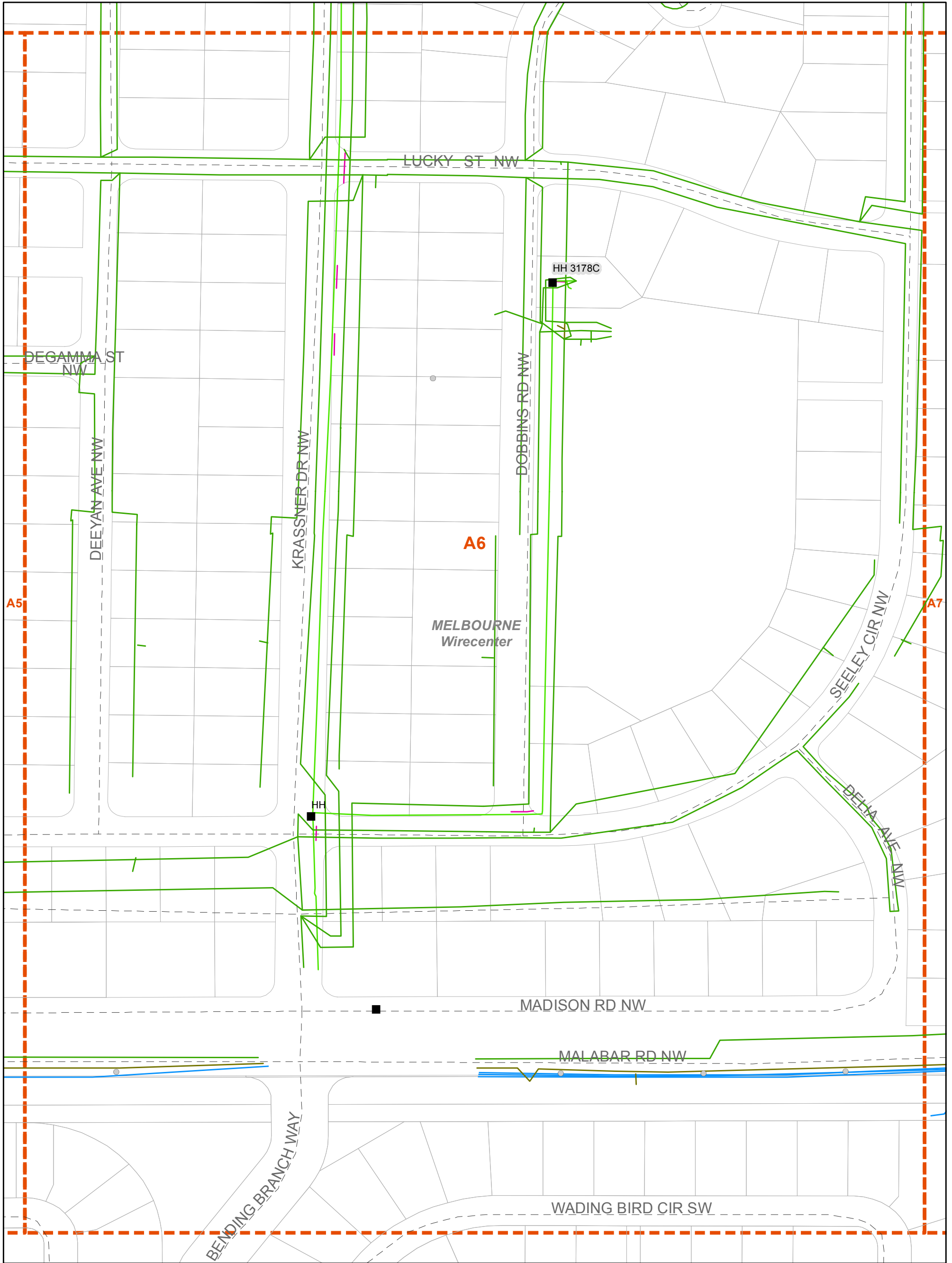
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## Malabar Rd Btwn St Johns Heritage And Minton Project



1:1,820



- Manholes
- Foreign Poles
- Buried
- Other
- Mapping Index
- ⊕ Wirecenter Boundary
- Street Centerlines
- ⊕ Parcels

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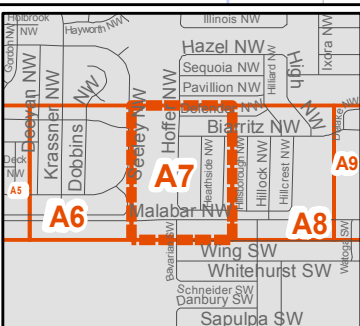
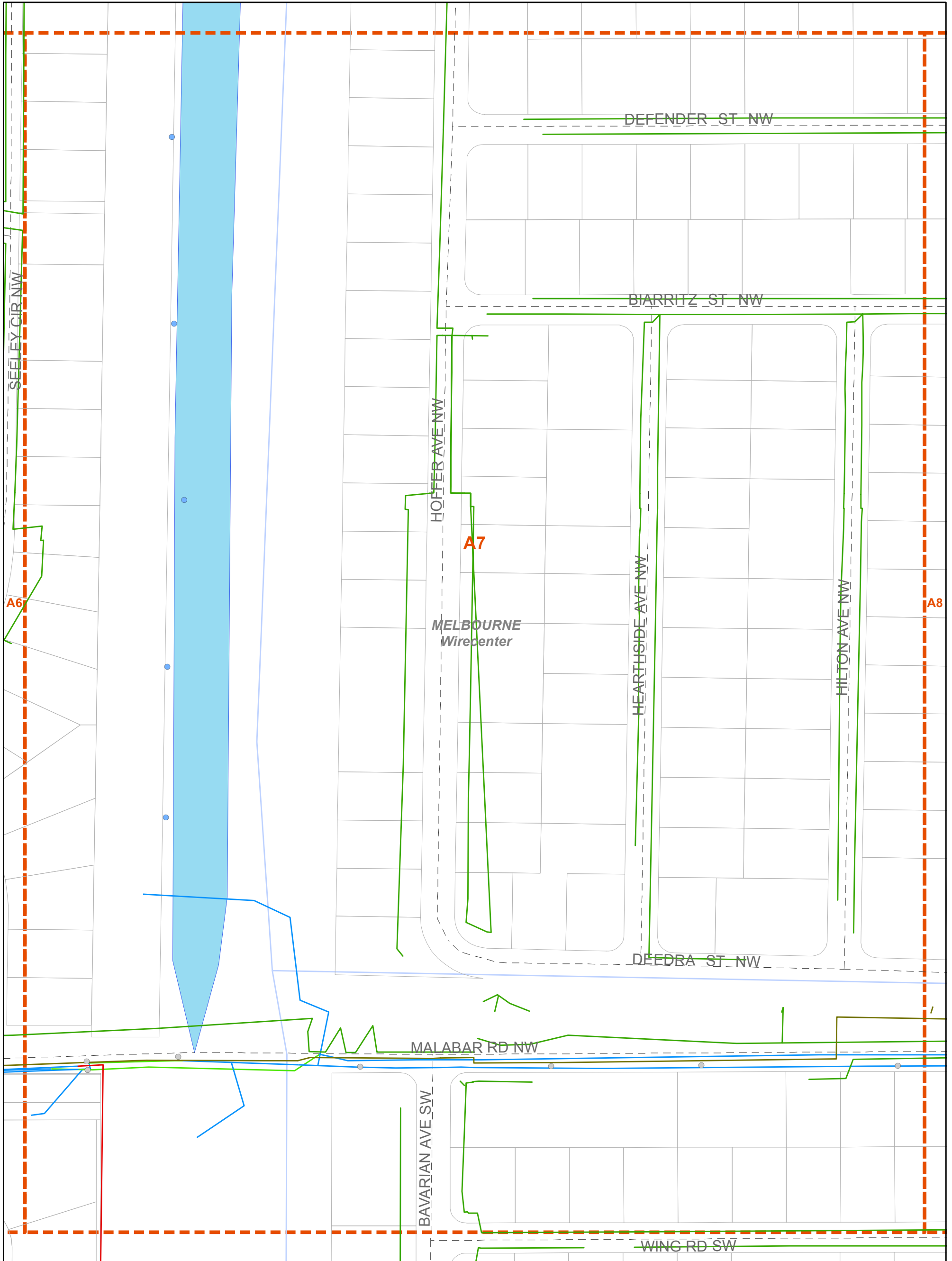
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## Malabar Rd Btwn St Johns Heritage And Minton Project



1:1,820



- Company Poles
- Foreign Poles
- Buried
- Other
- Mapping Index
- Wirecenter Boundary
- Street Centerlines
- Parcels

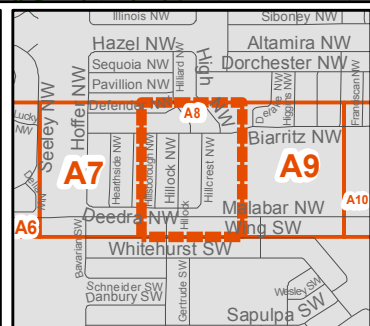
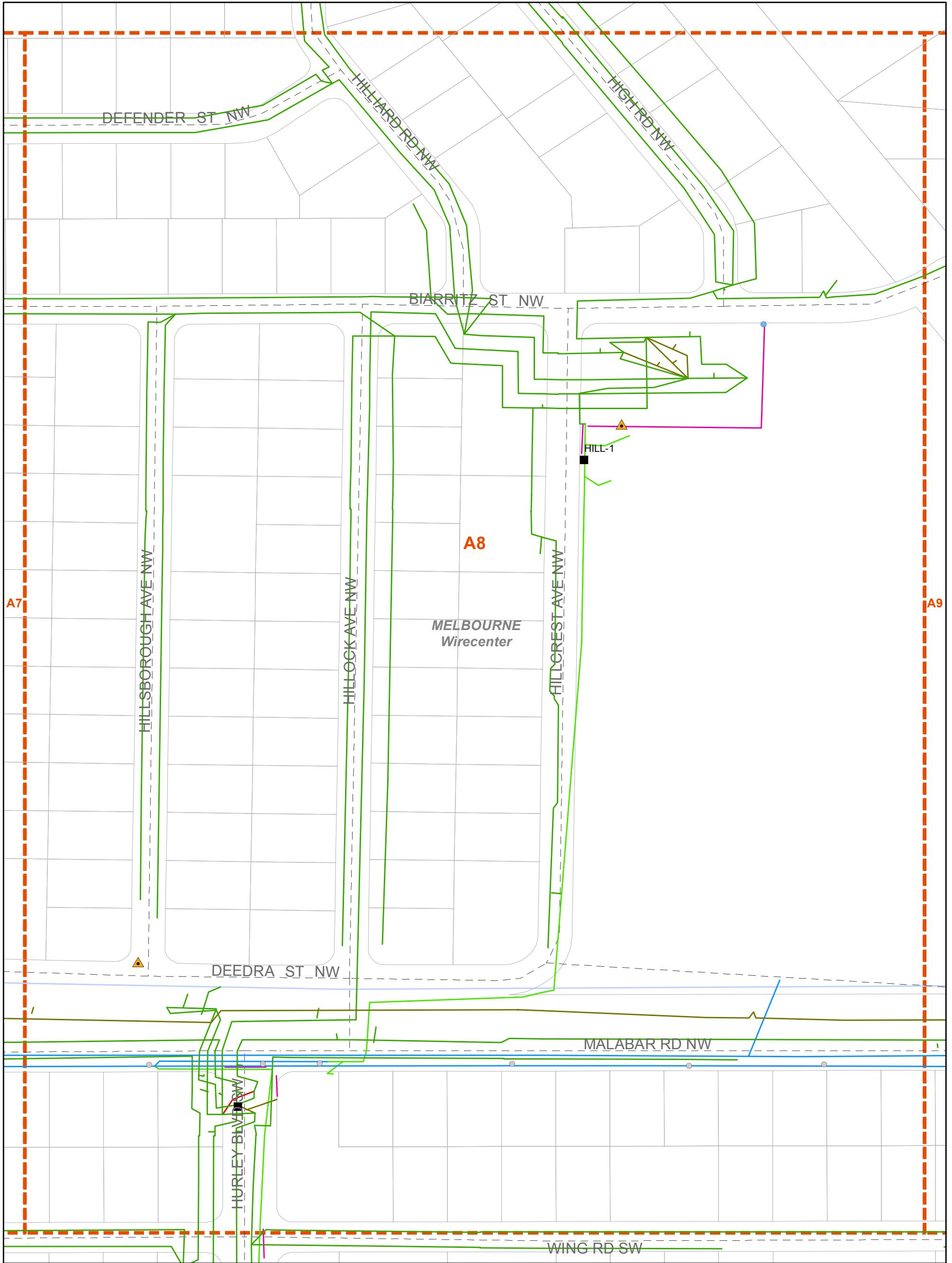
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## Malabar Rd Btwn St Johns Heritage And Minton Project



1:1,820



- Manholes
- ▲ Remote Terminals
- Company Poles
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- Buried
- Underground
- Other
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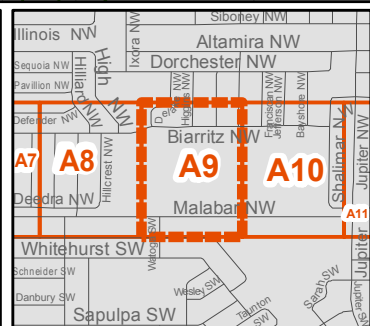
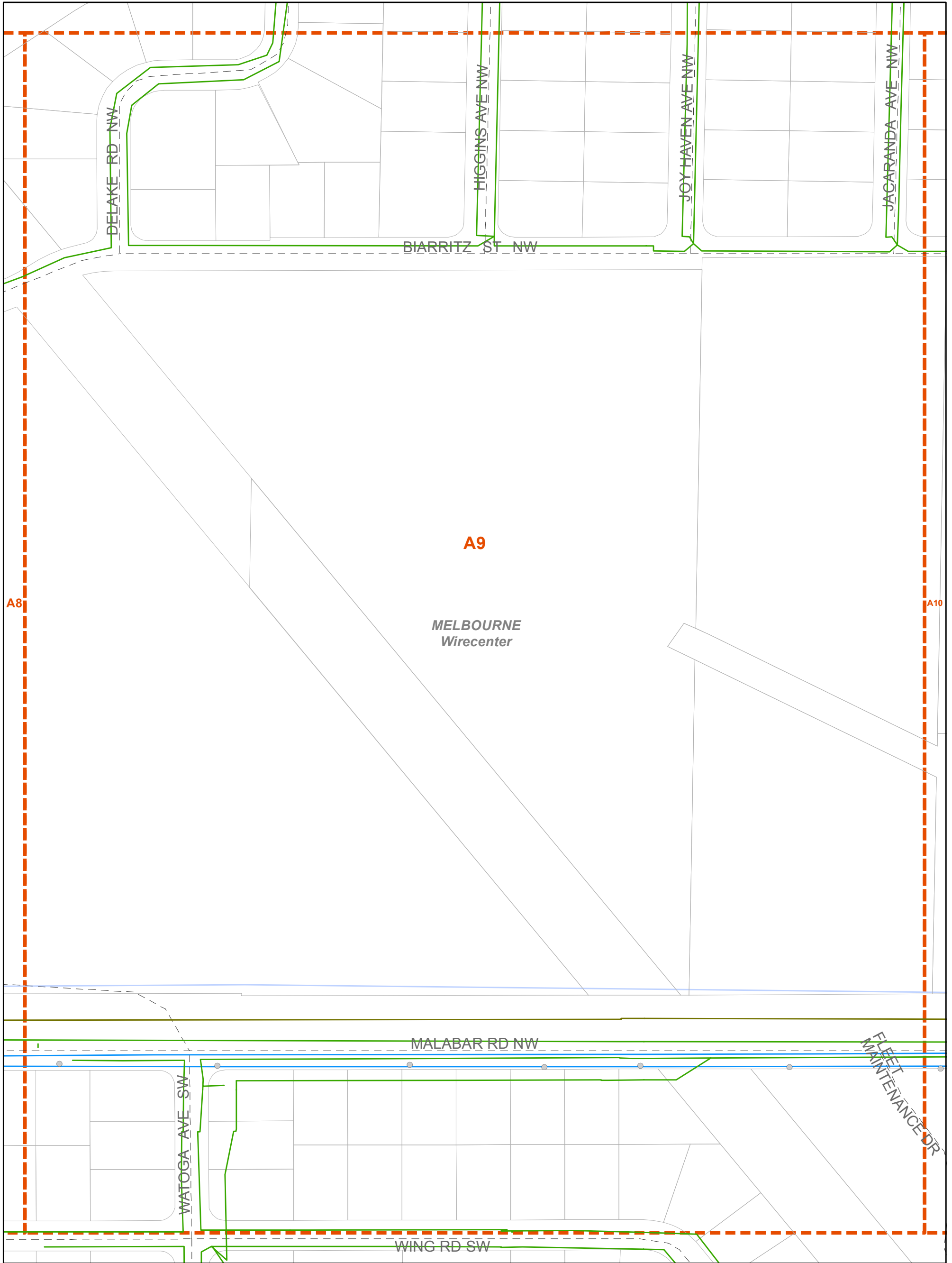
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## Malabar Rd Btwn St Johns Heritage And Minton Project



1:1,820



- Foreign Poles
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- ▭ Mapping Index
- ▭ Wirecenter Boundary
- Street Centerlines
- ▭ Parcels

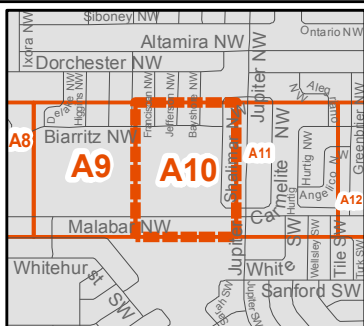
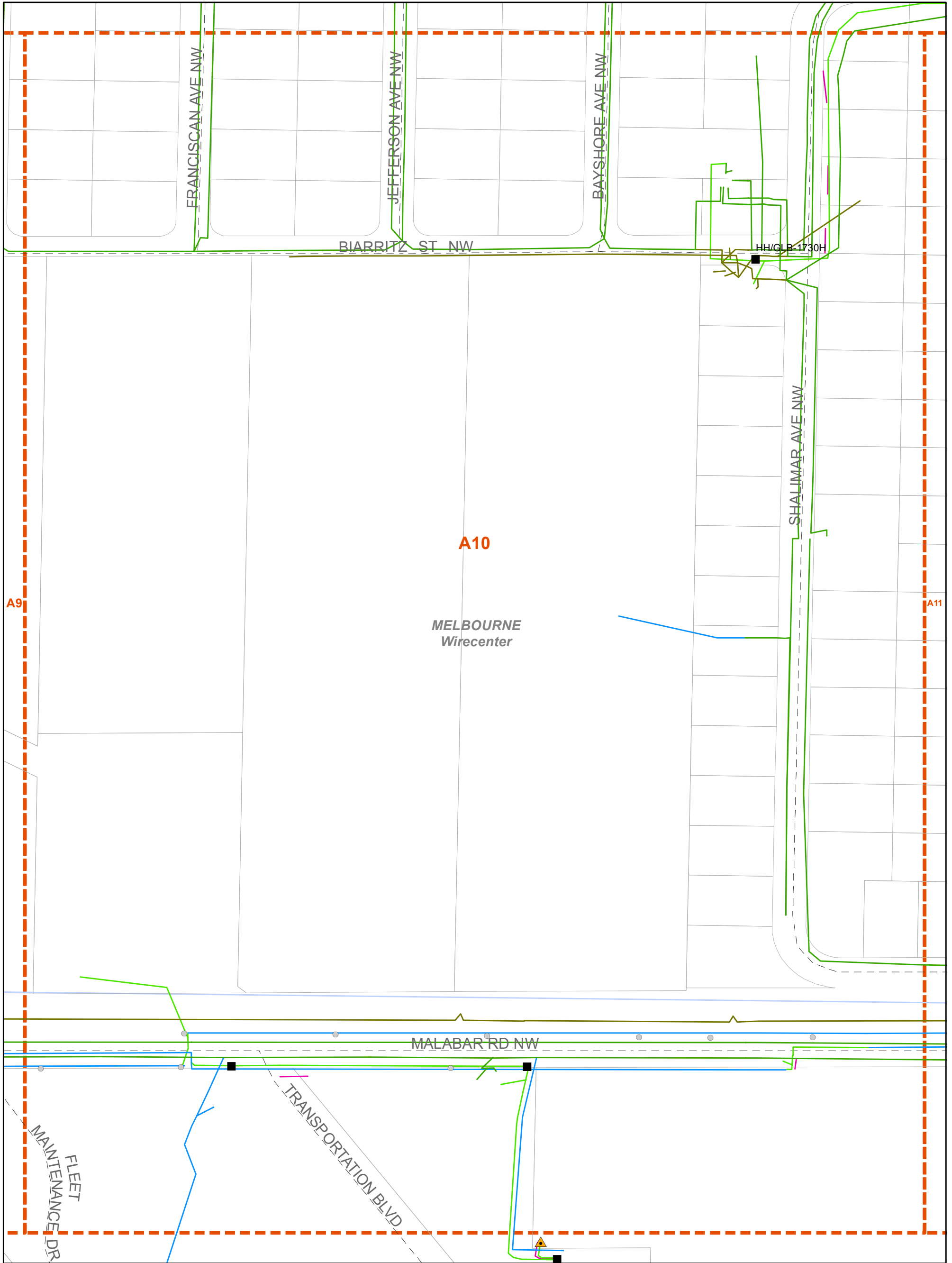
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## Malabar Rd Btwn St Johns Heritage And Minton Project



1:1,820



- Manholes
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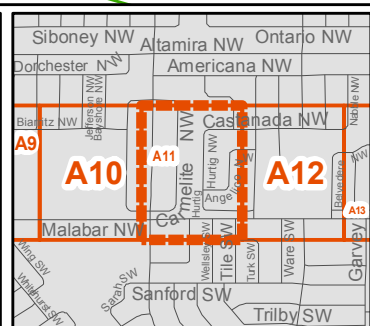
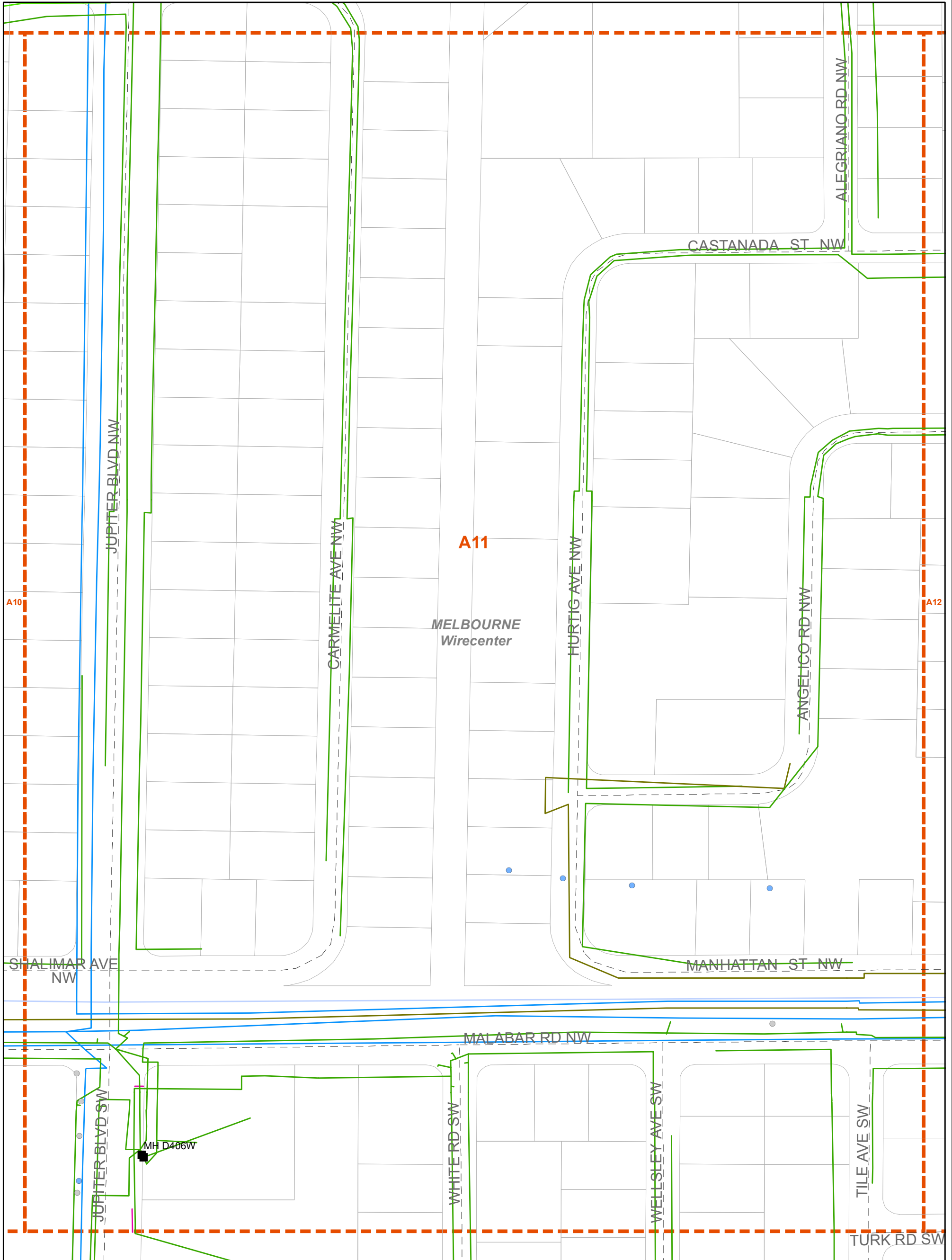
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## Malabar Rd Btwn St Johns Heritage And Minton Project



1:1,820



- Manholes
- Company Poles
- Foreign Poles
- Buried
- Other
- Mapping Index
- Wirecenter Boundary
- - - Street Centerlines
- Parcels

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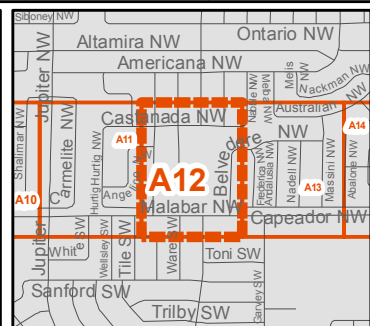
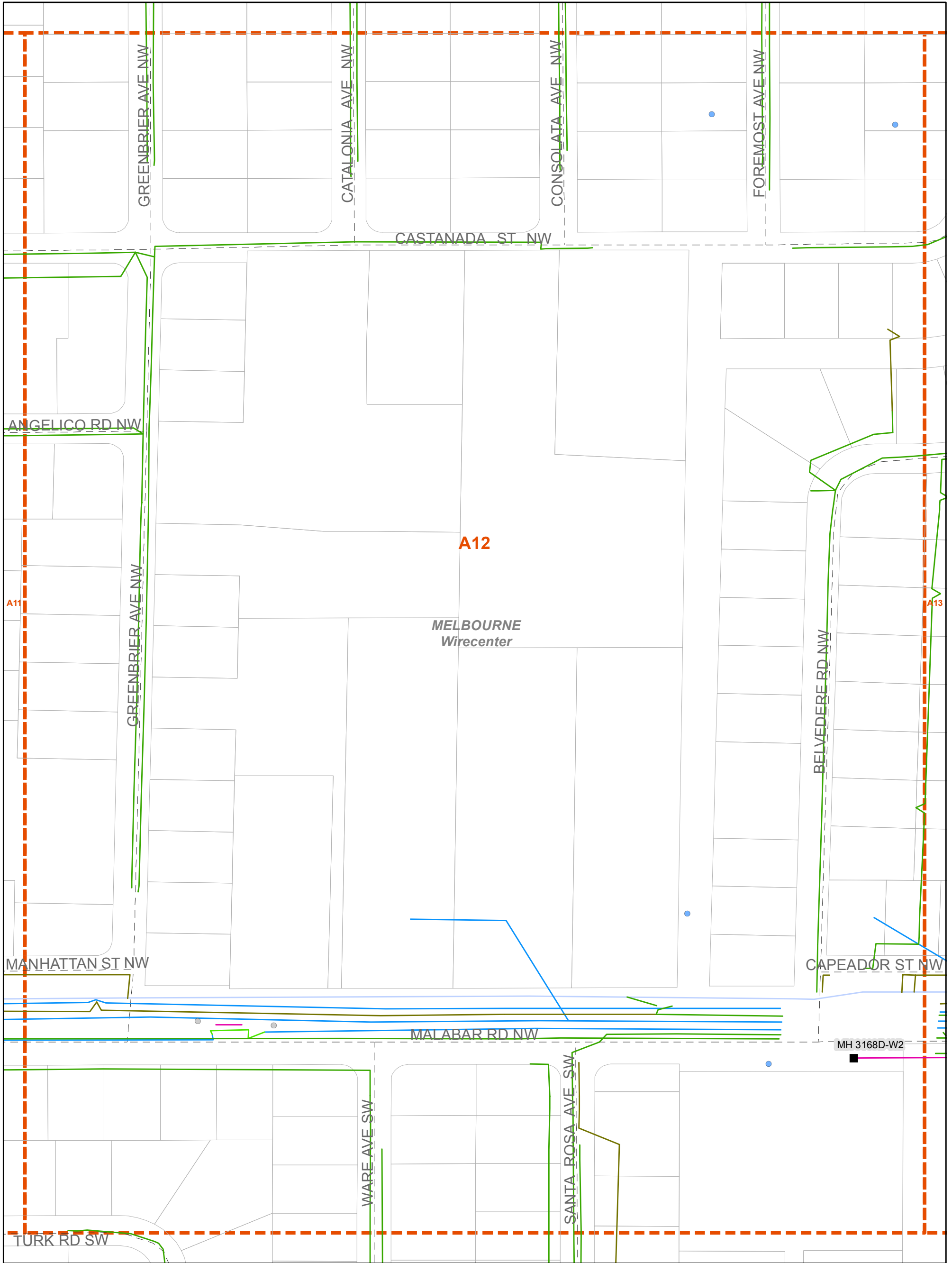
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1:1,820



- Company Poles
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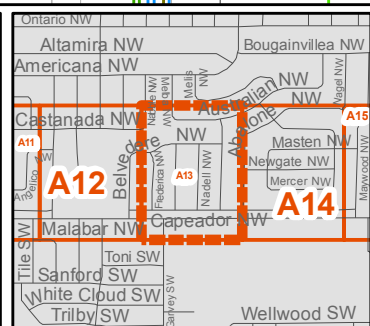
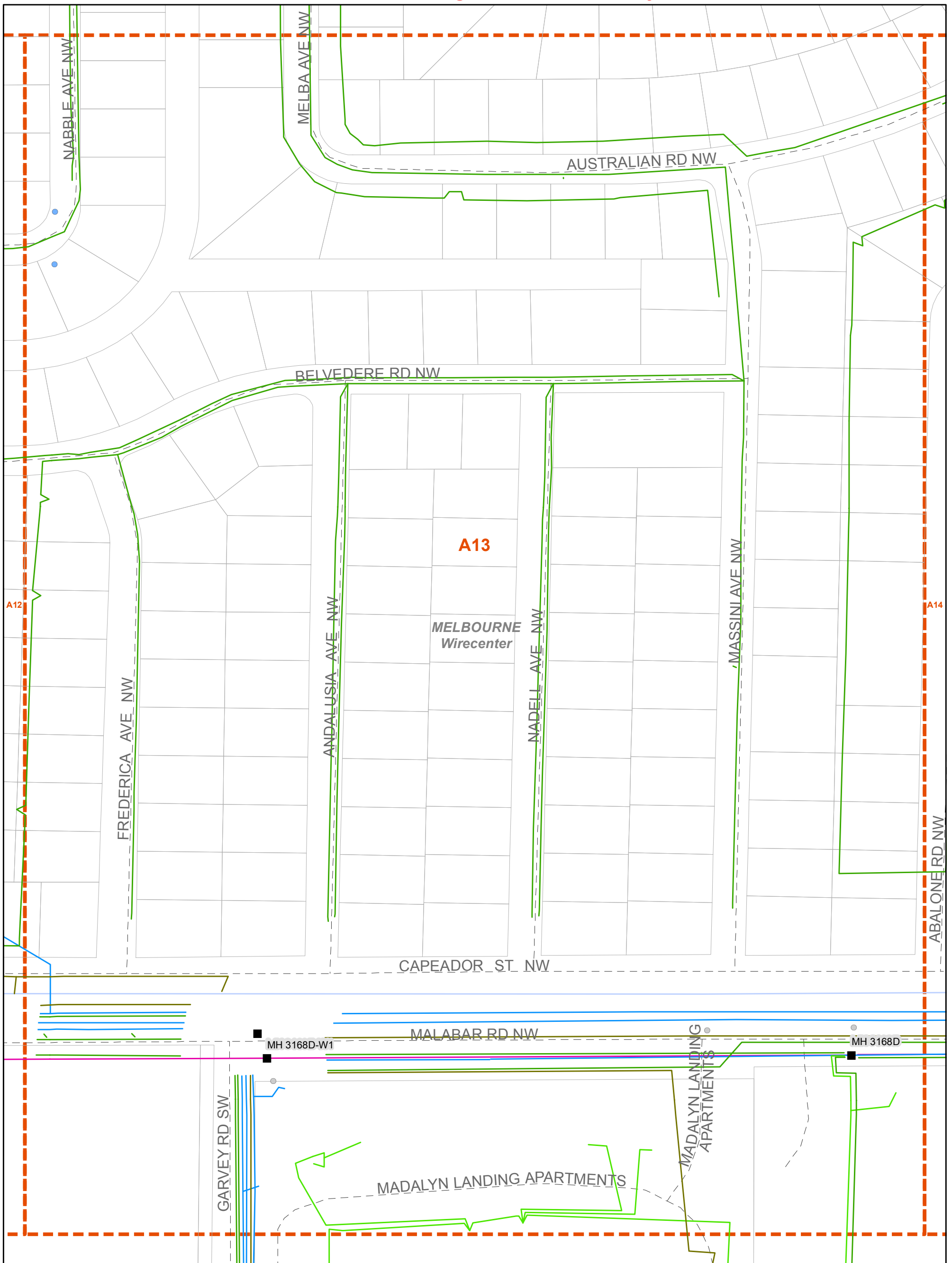
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- - - Street Centerlines
- Parcels

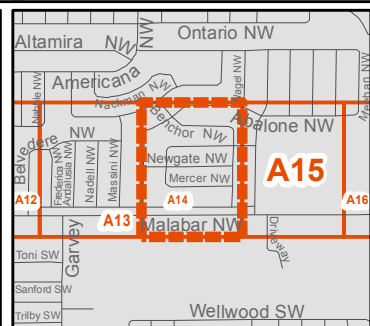
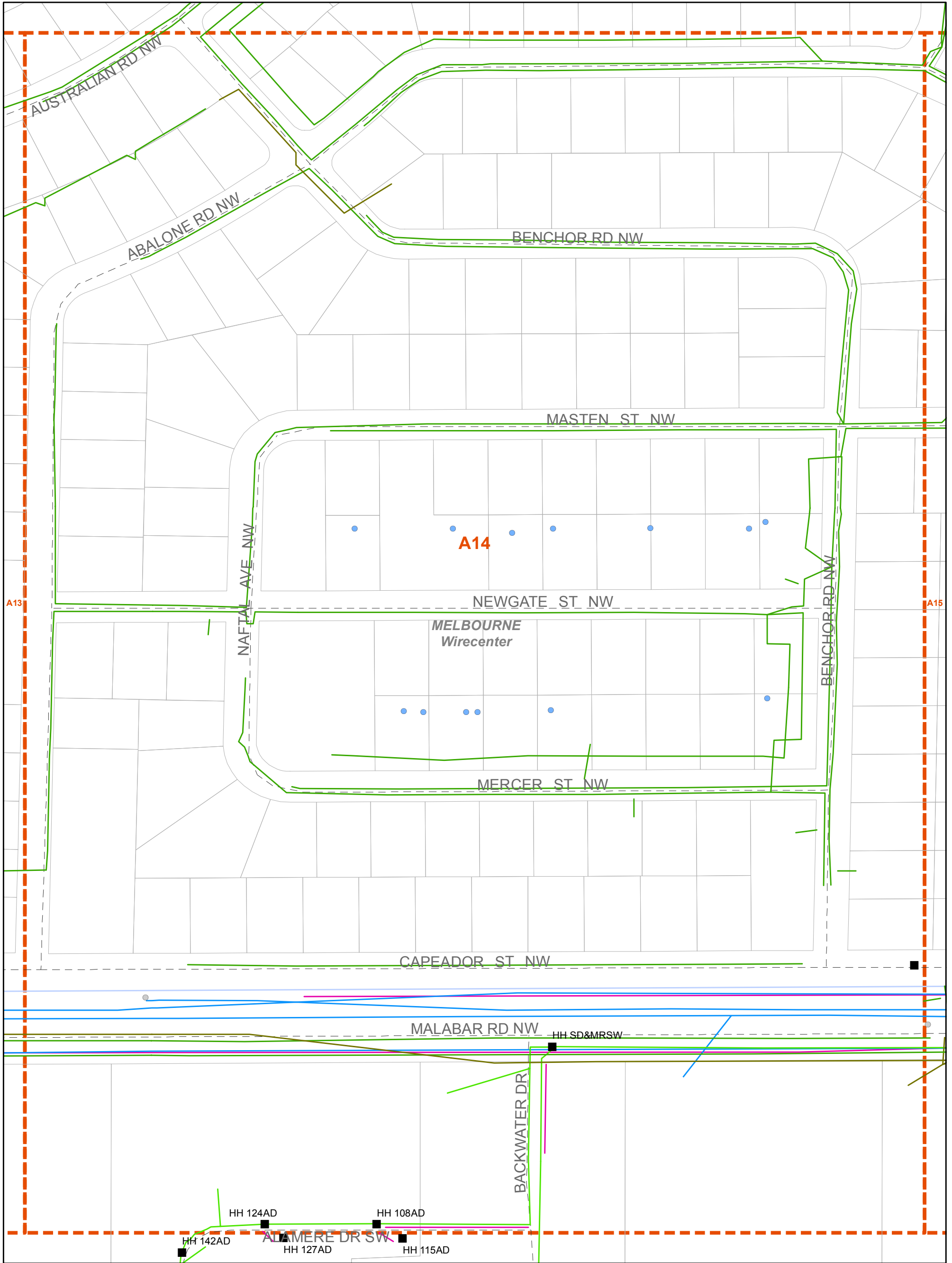
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## Malabar Rd Btwn St Johns Heritage And Minton Project



1:1,820



- Manholes
- Company Poles
- Foreign Poles
- Aerial
- Buried
- Other
- Conduit
- Mapping Index
- Wirecenter Boundary
- Street Centerlines
- Parcels

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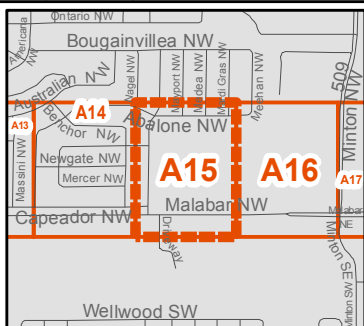
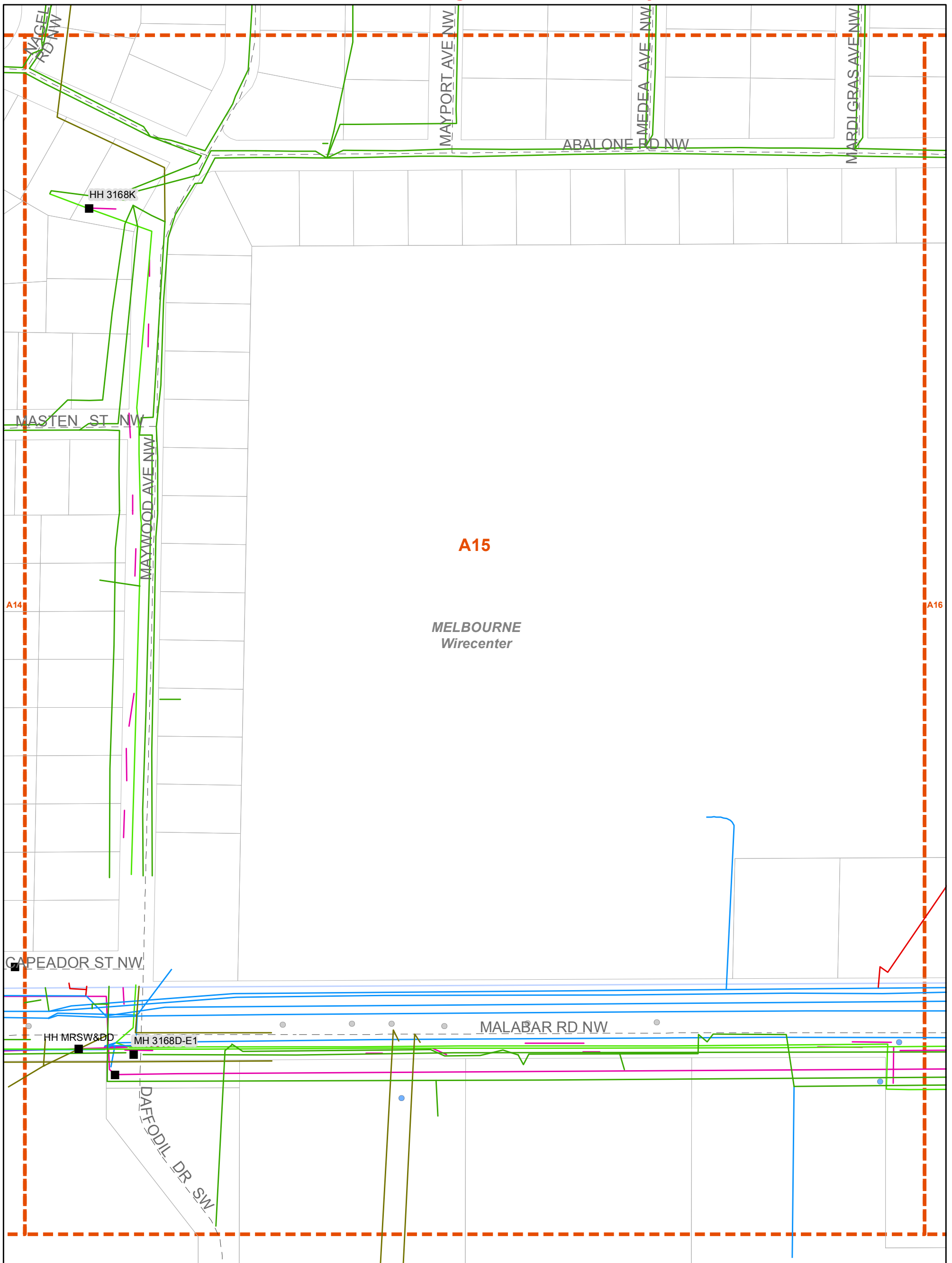
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## Malabar Rd Btwn St Johns Heritage And Minton Project



1:1,820



- Manholes
- Company Poles
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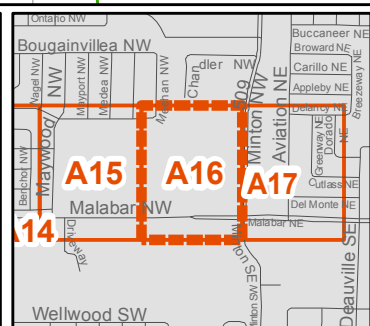
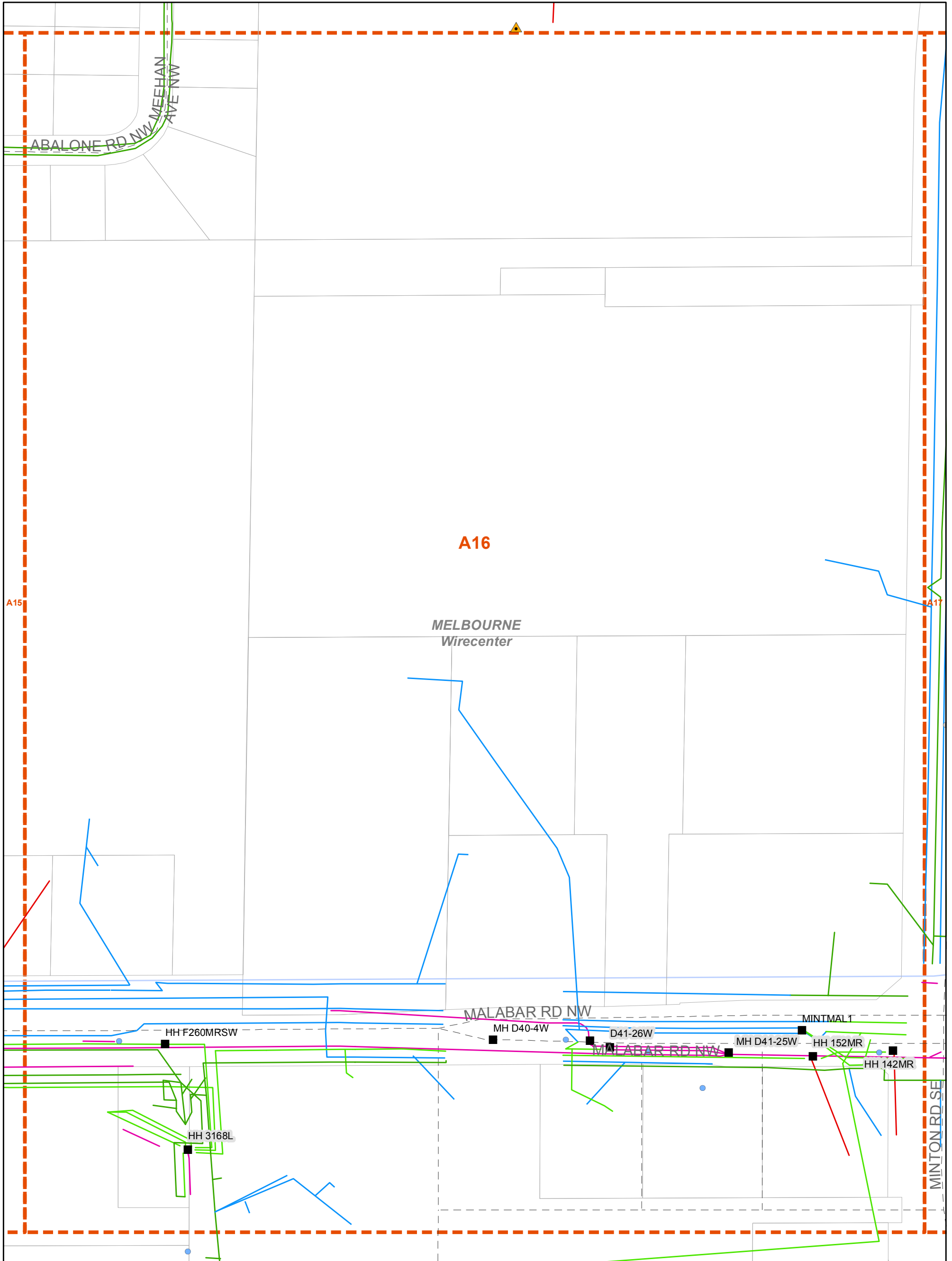
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## Malabar Rd Btwn St Johns Heritage And Minton Project



1:1,820

- Manholes
- ▲ Remote Terminals
- Company Poles
- Foreign Poles
- Aerial
- Buried
- Underground
- Mapping Index
- Wirecenter Boundary
- Street Centerlines
- Parcels

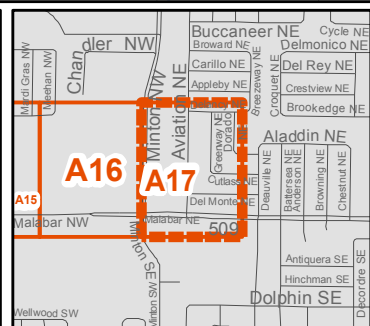
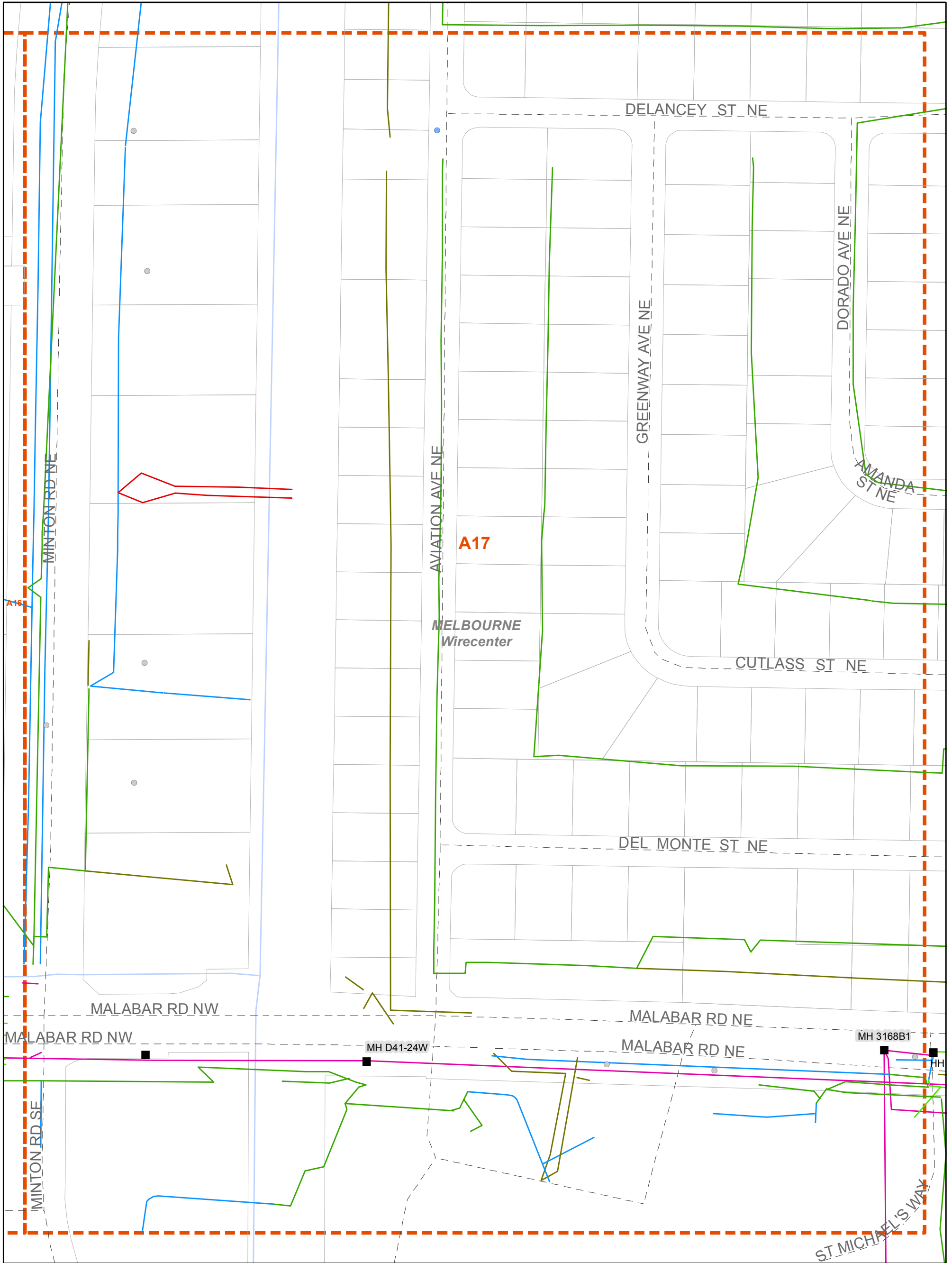
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## Malabar Rd Btwn St Johns Heritage And Minton Project



1:1,820



- Manholes
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- ▭ Wirecenter Boundary
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- ▭ Parcels

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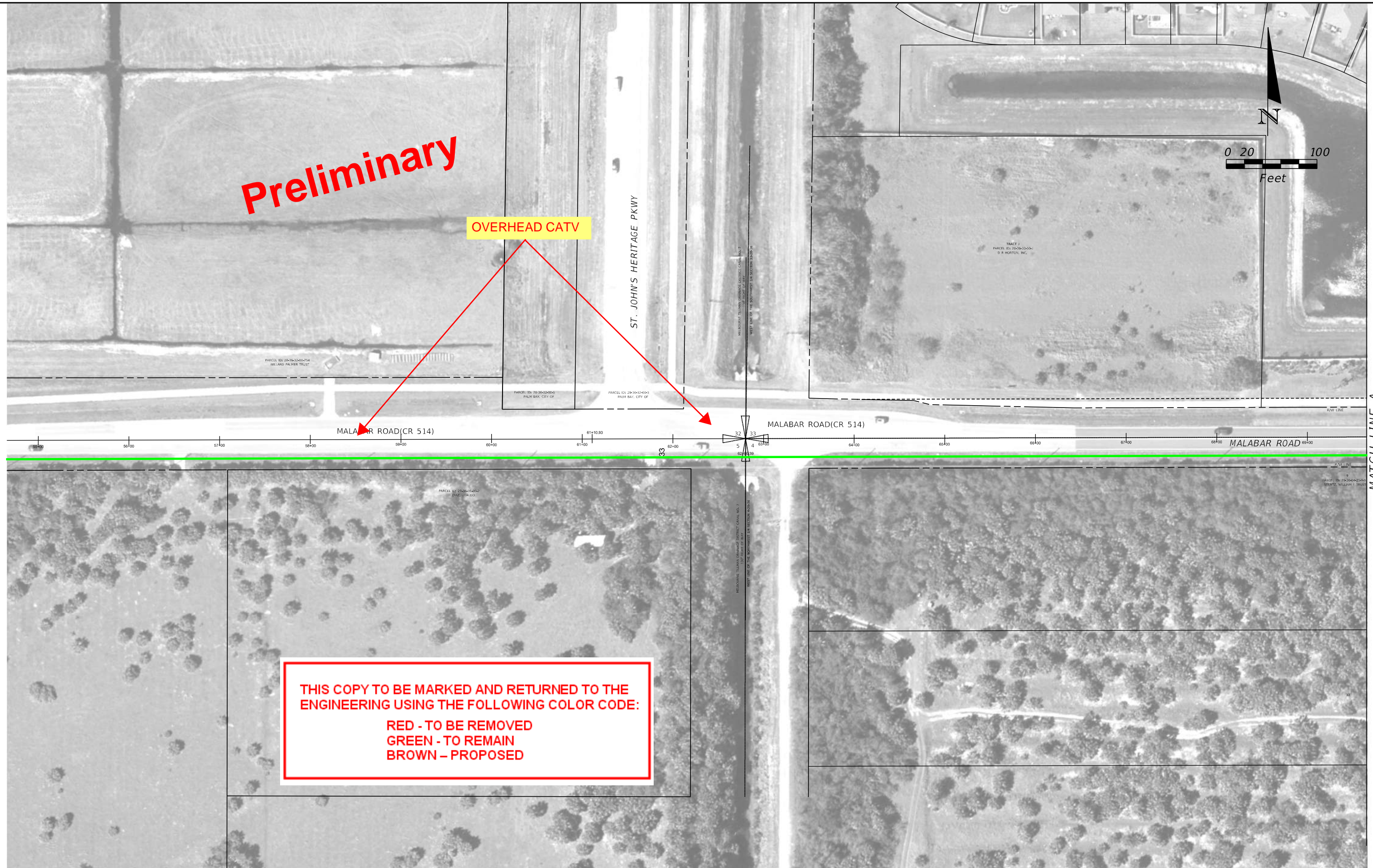
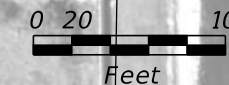
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## **Bright House Networks, LLC**



**Preliminary**

**OVERHEAD CATV**



**THIS COPY TO BE MARKED AND RETURNED TO THE ENGINEERING USING THE FOLLOWING COLOR CODE:**  
**RED - TO BE REMOVED**  
**GREEN - TO REMAIN**  
**BROWN - PROPOSED**

MATCH LINE A

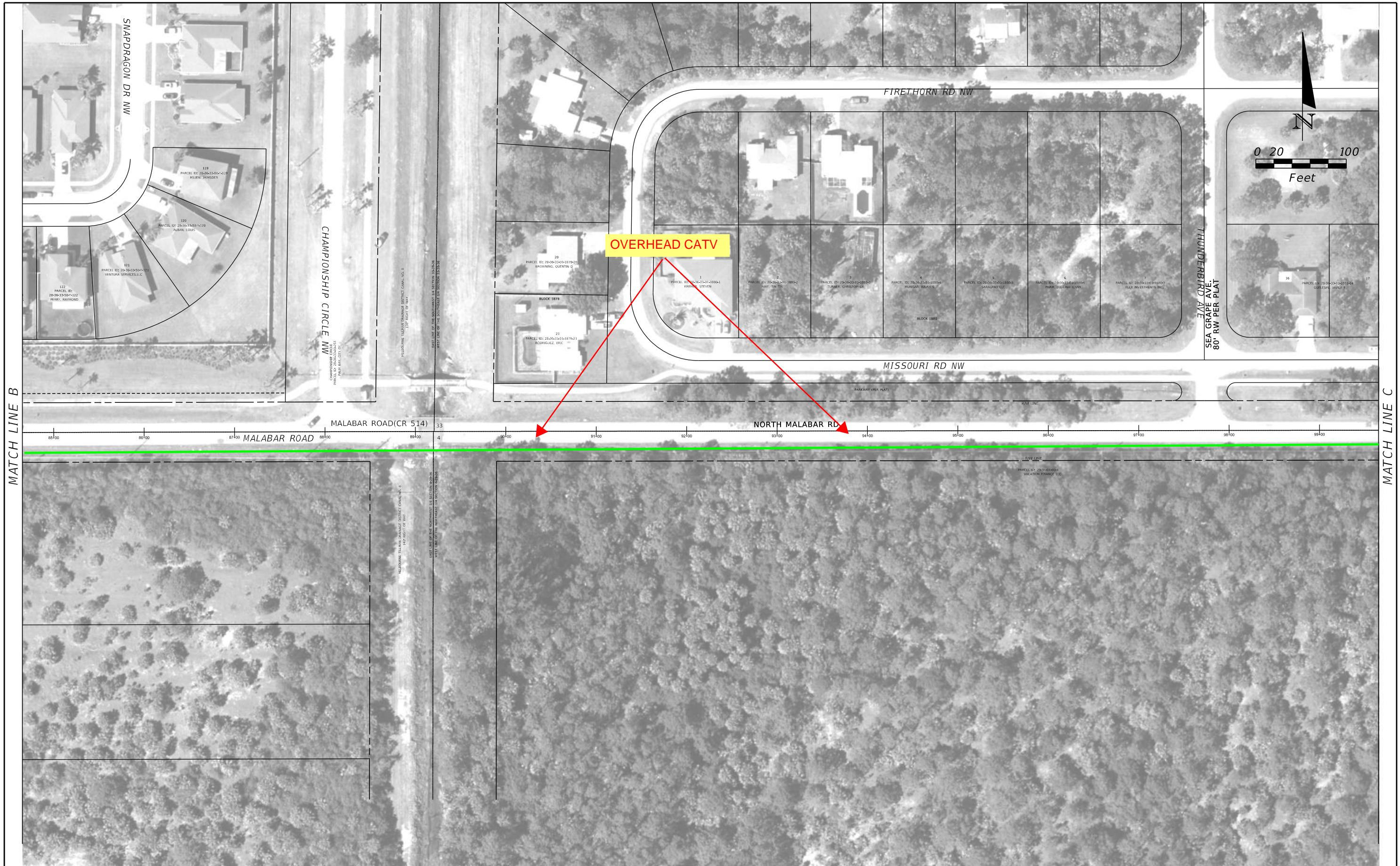
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DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					BREVARD			





REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	MALABAR ROAD PD&E STUDY PLANSHEET		SHEET NO.  2
DATE	DESCRIPTION	DATE	DESCRIPTION				
					BREVARD		





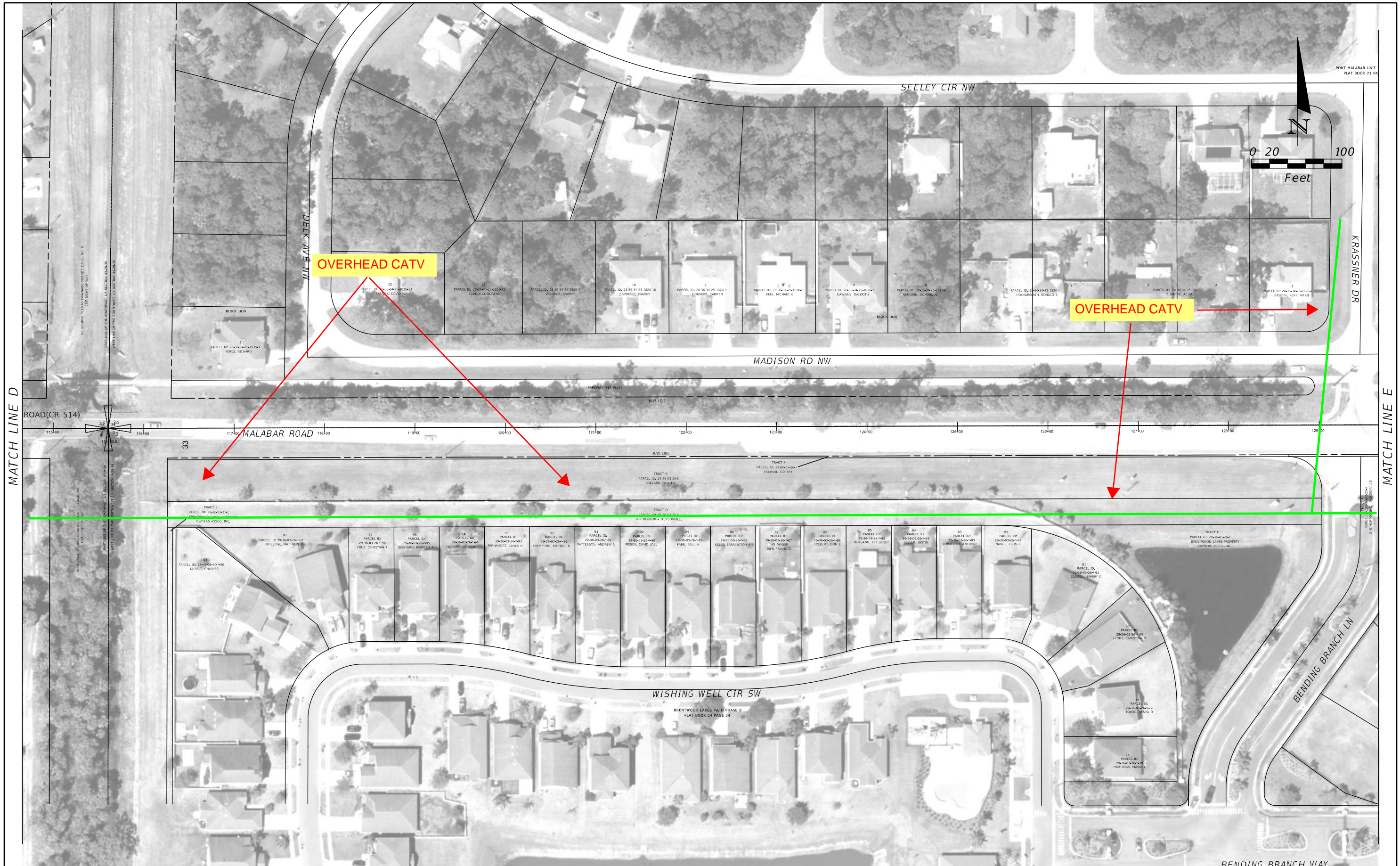
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DATE	DESCRIPTION	DATE	DESCRIPTION				
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					BREVARD		





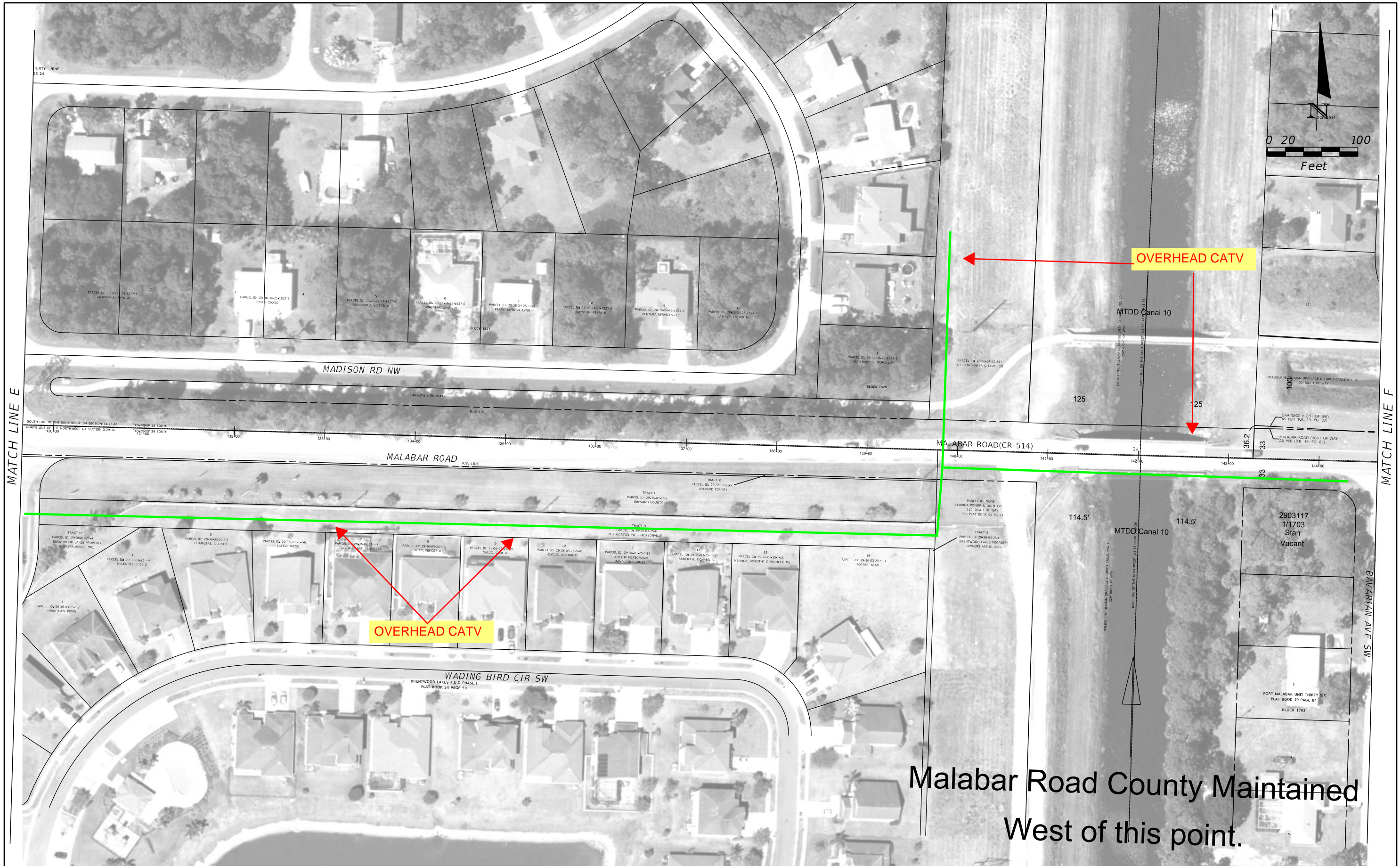
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DATE	DESCRIPTION	DATE	DESCRIPTION				
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					BREVARD		





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Malabar Road County Maintained  
West of this point.

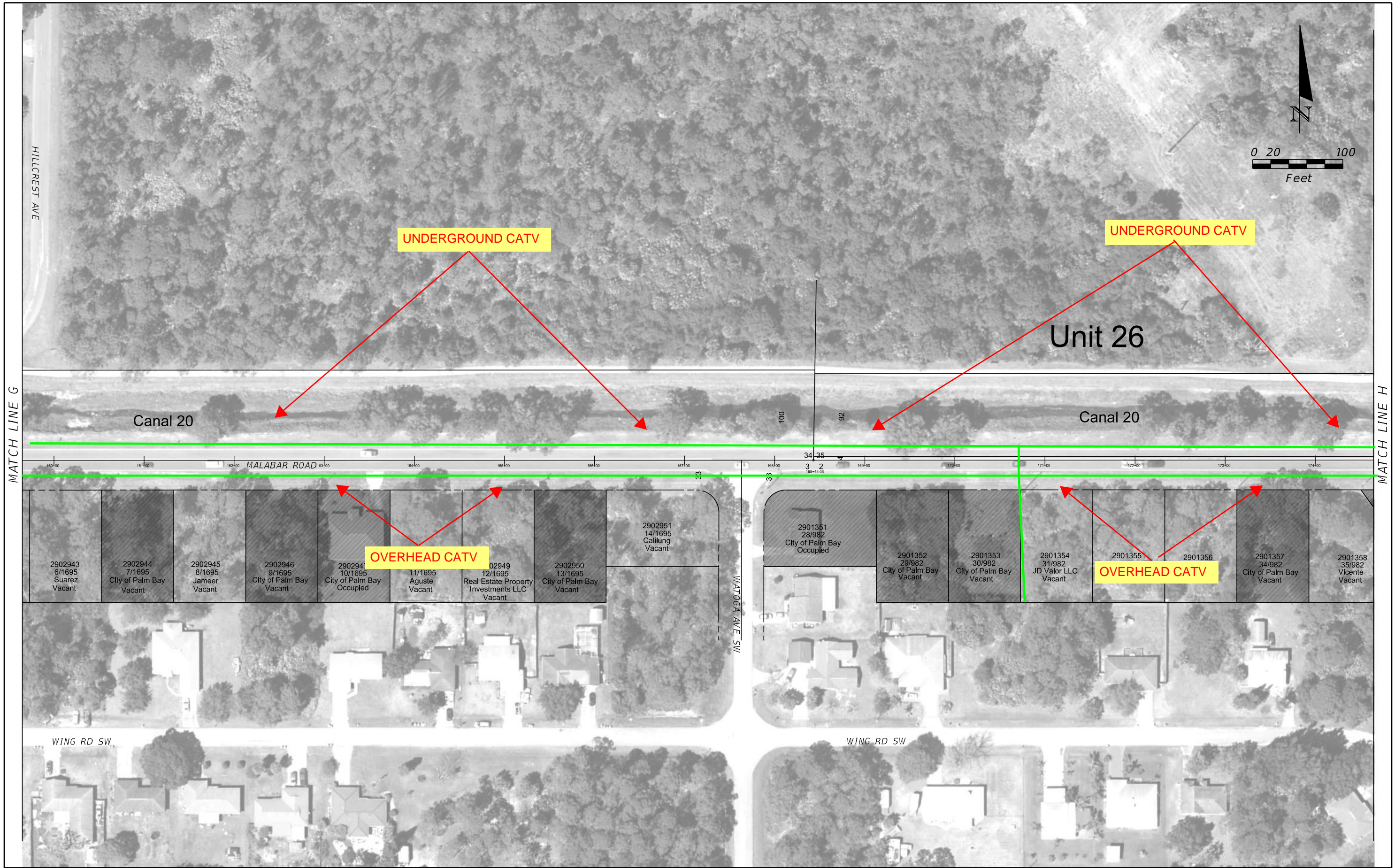
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DATE	DESCRIPTION	DATE	DESCRIPTION				
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REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	MALABAR ROAD PD&E STUDY PLANSHEET		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				
							ROAD NO.
					BREVARD		





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	BREVARD	

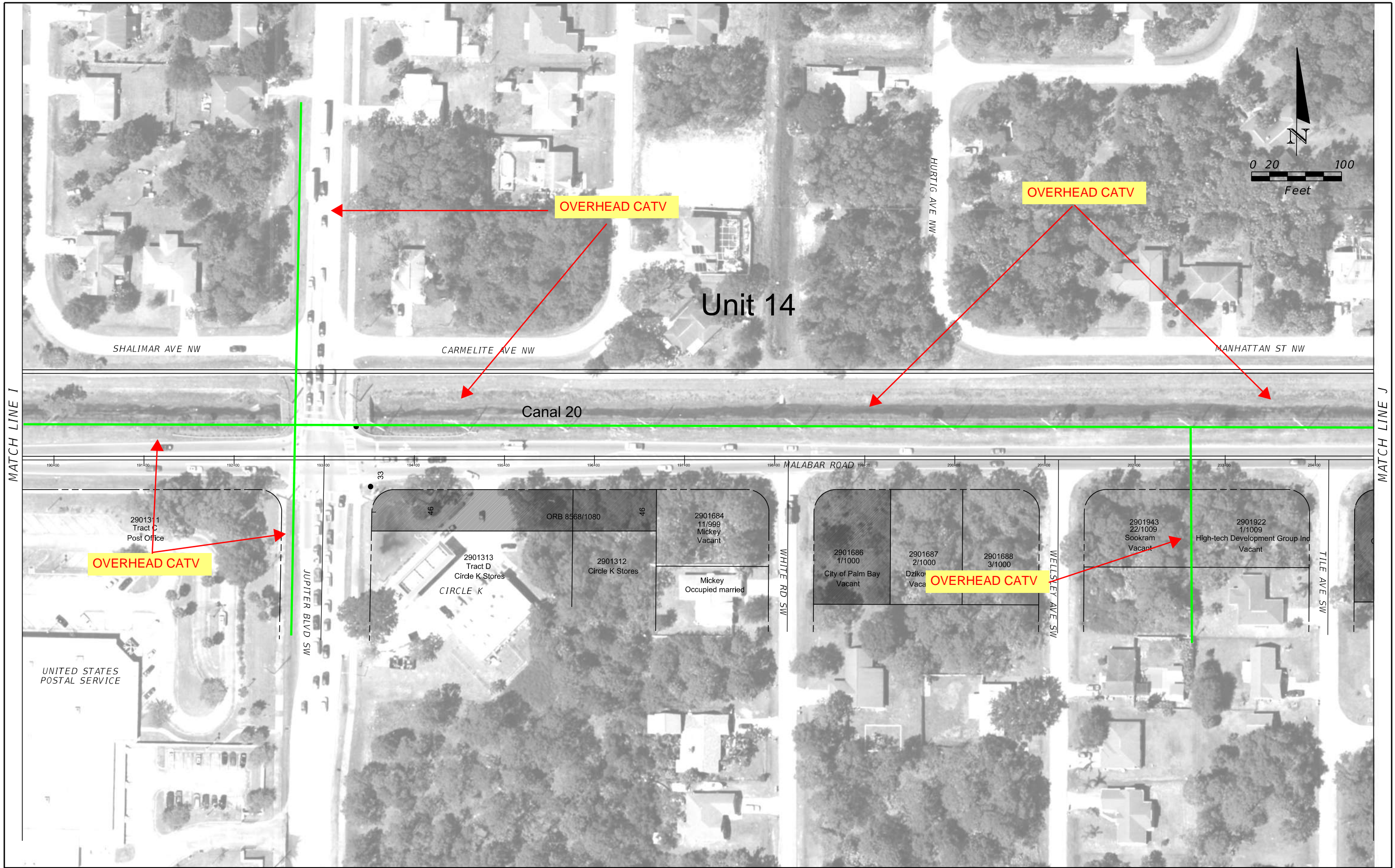
**MALABAR ROAD PD&E STUDY  
PLANSHEET**

SHEET NO.  
8









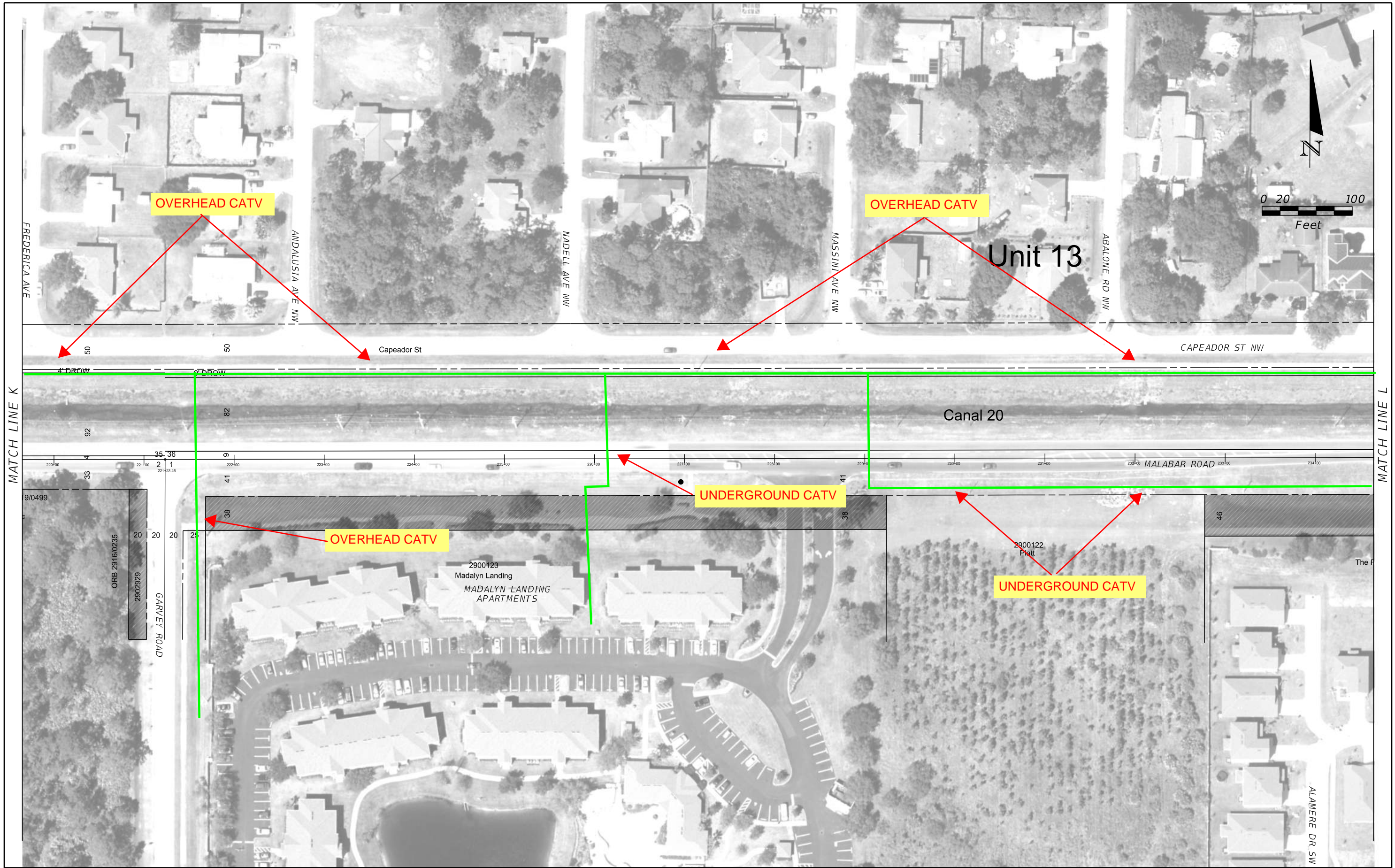
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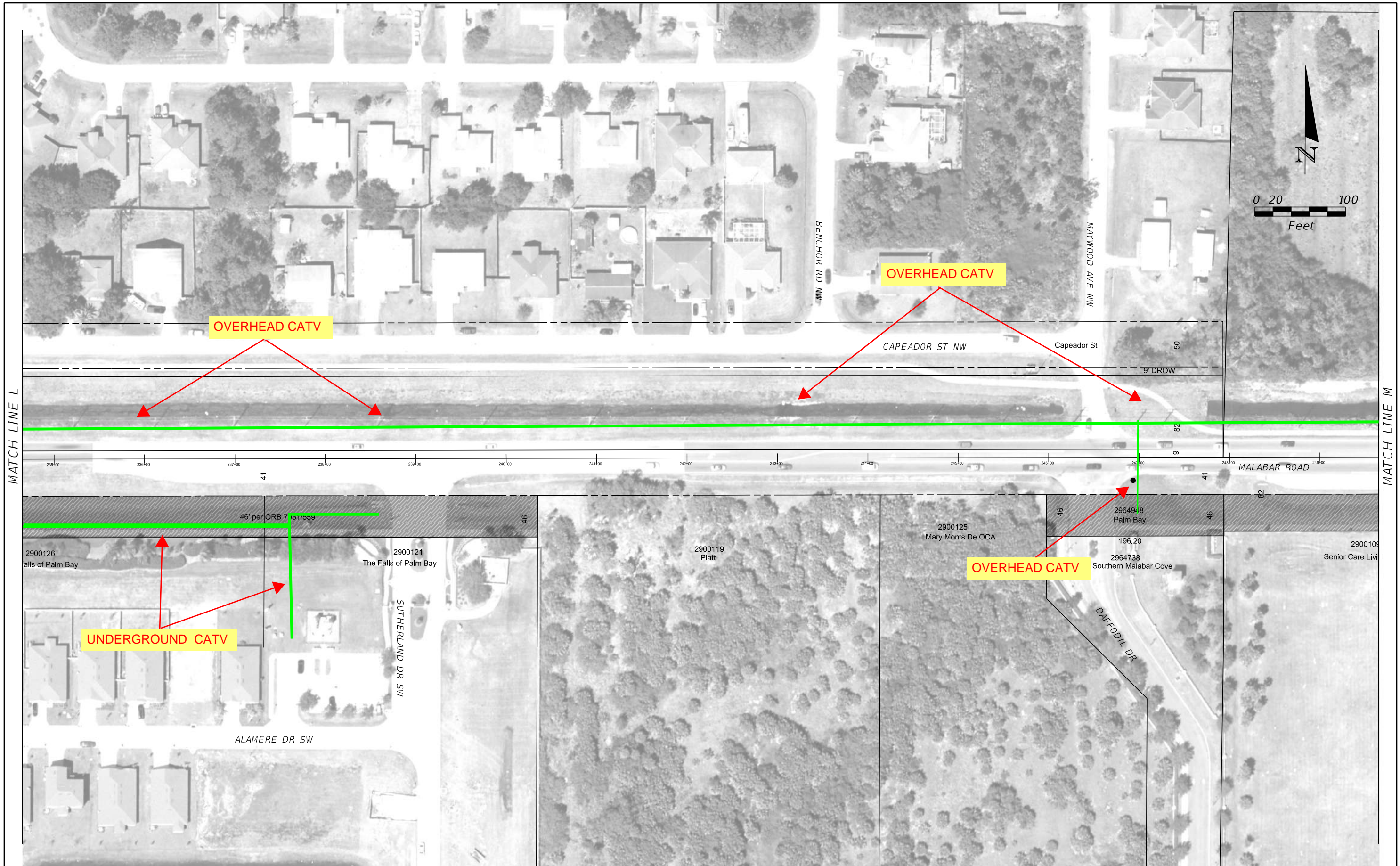
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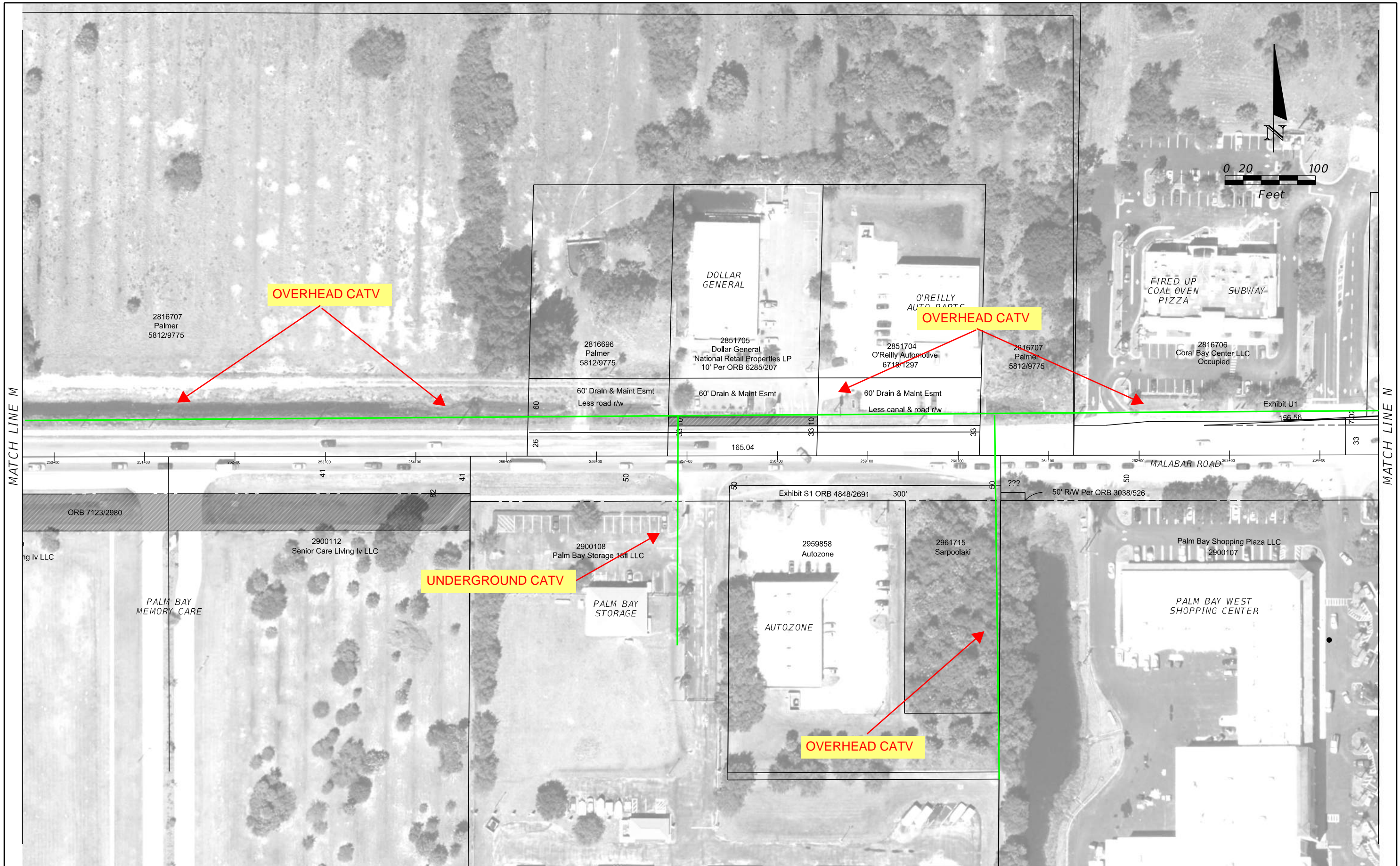
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					BREVARD		





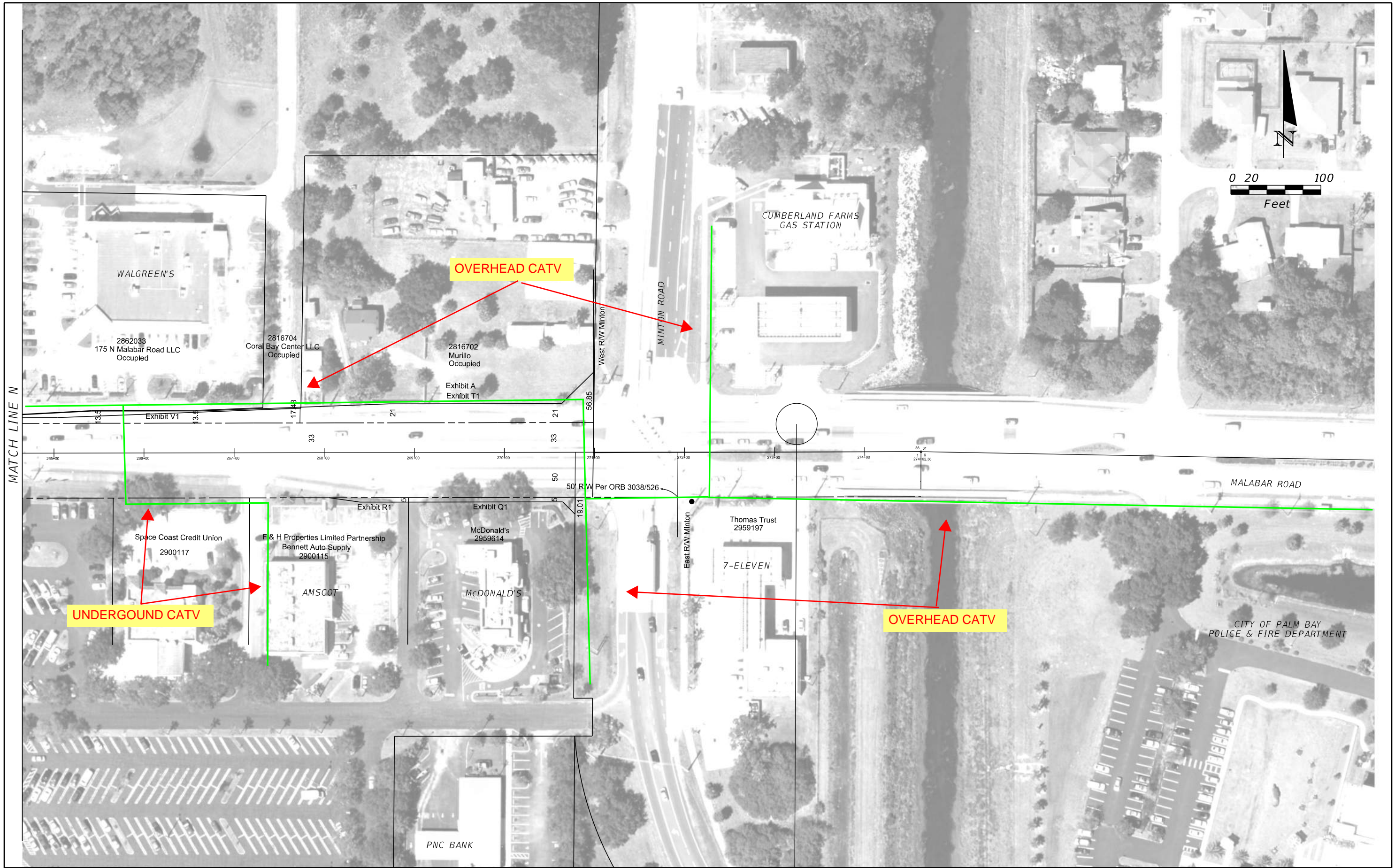
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DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					BREVARD			





REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			MALABAR ROAD PD&E STUDY PLANSHEET	SHEET NO.  14
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					BREVARD			







REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	MALABAR ROAD PD&E STUDY PLANSHEET		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				
							ROAD NO.
					BREVARD		

## **City of Palm Bay Utilities Department**



# Palm Bay Utilities

**Legend**

-  Sewer FM PVC
-  Watermain PVC





Google Earth

© 2020 Google

600 ft



**Legend**

-  Sewer FM PVC
-  Watermain PVC



Malabar Rd



St Johns Heritage Pkwy





# Palm Bay Utilities



**Legend**

-  Sewer FM PVC
-  Watermain PVC



# Palm Bay Utilities

**Legend**

-  Sewer FM PVC
-  Watermain PVC



Firethorn Rd NW

Championship Cir NW

Thunderbird Ave

Missouri Rd NW

Malabar Rd

Alison Dr

Flying U Ln

600 ft





Google Earth

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# Palm Bay Utilities

**Legend**

-  Sewer FM PVC
-  Watermain PVC



Missouri Rd NW

Wisteria Ave NW

Rangoon Rd NW

Delk Ave NW

Madison Rd NW

Malabar Rd



Wishing Well Cr SW



600 ft

# Palm Bay Utilities

**Legend**

-  Sewer FM PVC
-  Watermain PVC



Madison Rd NW

Malabar Rd

Wishing Well Cir SW

Bending Branch Ln

Wading Bird Cir SW

Google Earth

© 2020 Google




600 ft





# Palm Bay Utilities

## Legend

-  Gravity Sewer PVC
-  Sewer FM PVC
-  Watermain PVC

Hoffer Ave NN

Hearthside Ave NW

Hilton Ave NW

Hillsborough Ave NW

Hillock Ave NW

Malabar Rd

Wing Rd SW

Google Earth

© 2020 Google





600 ft



# Palm Bay Utilities

## Legend

-  Sewer FM PVC
-  Watermain PVC





Google Earth

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# Palm Bay Utilities

**Legend**

-  Sewer FM PVC
-  Watermain PVC



Malabar Rd

Shalimar Ave MW

Google Earth



© 2020 Google

600 ft



# Palm Bay Utilities

**Legend**

-  Sewer FM PVC
-  Watermain PVC



Google Earth



600 ft





# Palm Bay Utilities

**Legend**

-  Sewer FM PVC
-  Watermain PVC



Ware Ave SW

Belvedere Rd NW

Frederica Ave

Andalusia Ave NW

Nadell Ave NW

Capeador St NW

Malabar Rd

Carvey Rd

600 ft





Google Earth

© 2020 Google

# Palm Bay Utilities

## Legend

-  Sewer FM PVC
-  Watermain PVC

Massini Ave NW

Abalone Rd NW

Benchor Rd NW

Maywood Ave NW

Capeador St NW

Malabar Rd

Daffodil Dr

Google Earth

© 2020 Google





600 ft





# Palm Bay Utilities

**Legend**

-  Sewer FM PVC
-  Watermain PVC



Malabar Rd

600 ft



Garfield Dr

Google Earth

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# Palm Bay Utilities

**Legend**

- Gravity Sewer PVC
- Sewer FM PVC
- Watermain PVC



Malabar Rd

Rafford Dr

Google Earth

© 2020 Google

600 ft

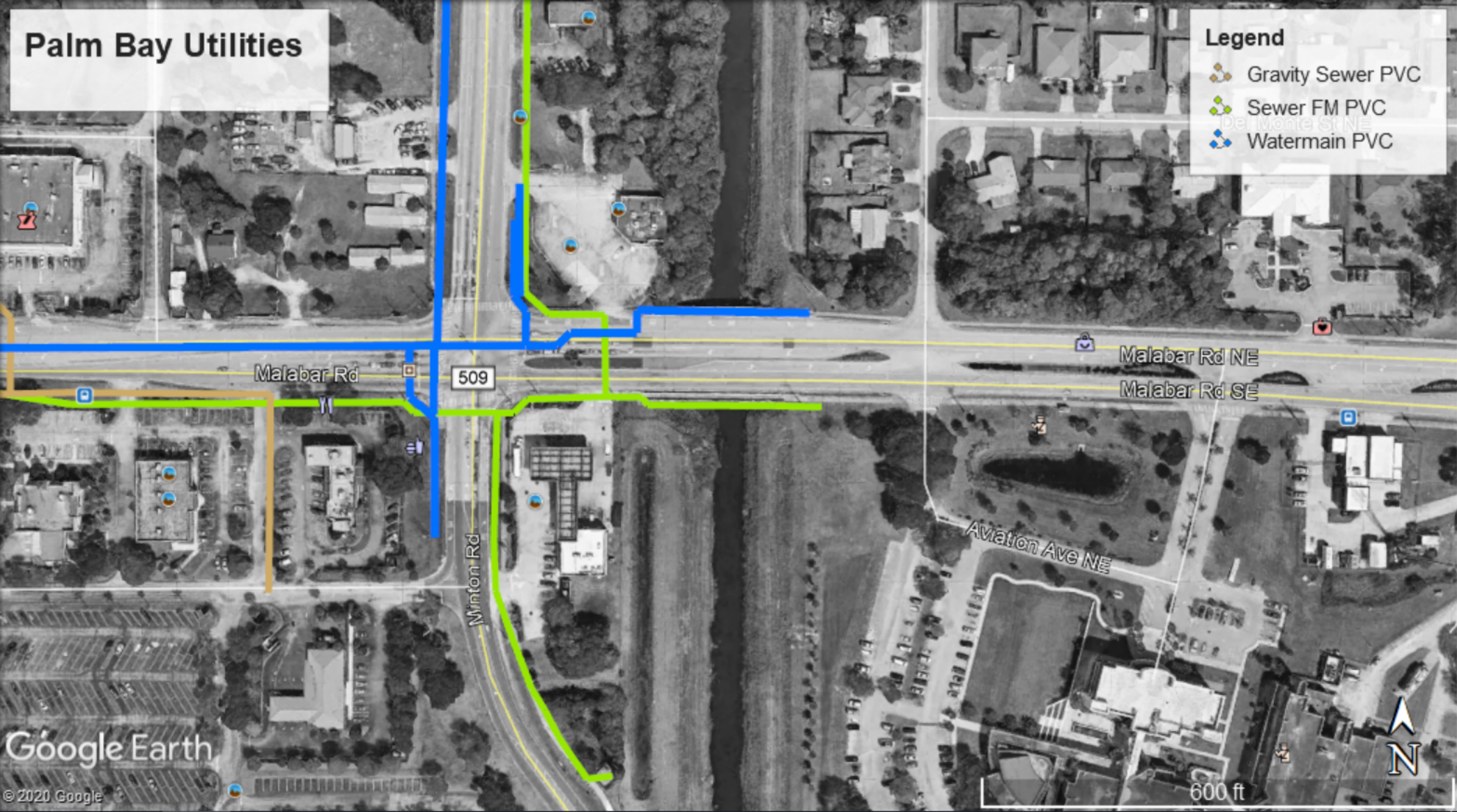




# Palm Bay Utilities

**Legend**

- Gravity Sewer PVC
- Sewer FM PVC
- Watermain PVC



Malabar Rd

509

Winton Rd

Aviation Ave NE

Malabar Rd NE  
Malabar Rd SE

Google Earth

© 2020 Google

600 ft



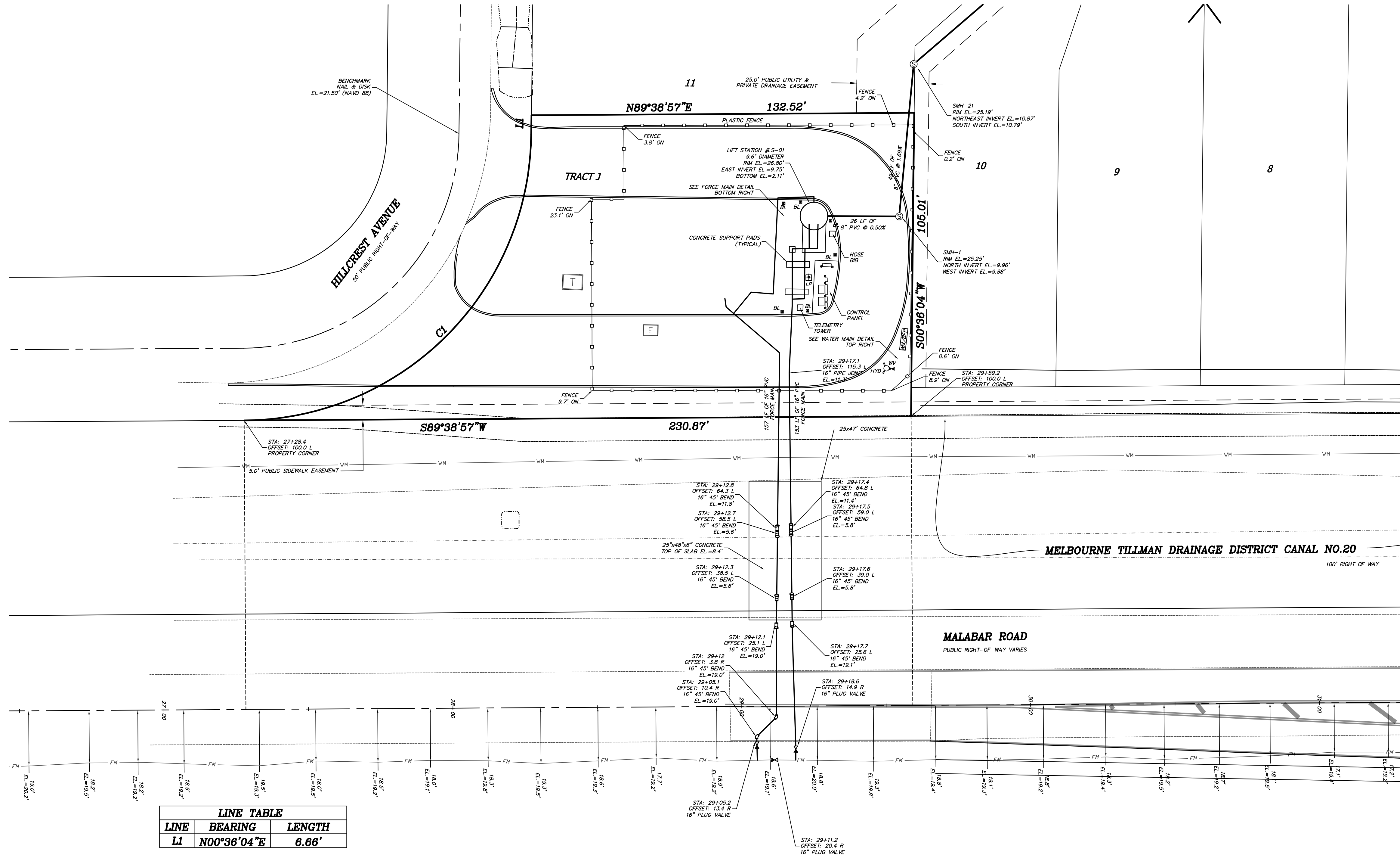
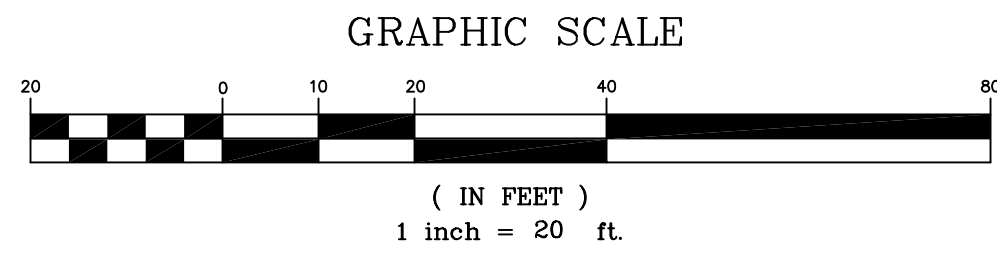


# AVERY SPRINGS P.U.D.

## CITY OF PALM BAY UTILITIES DEPARTMENT REGIONAL PUMP STATION NO.1 SANITARY SEWER AS-BUILT SURVEY

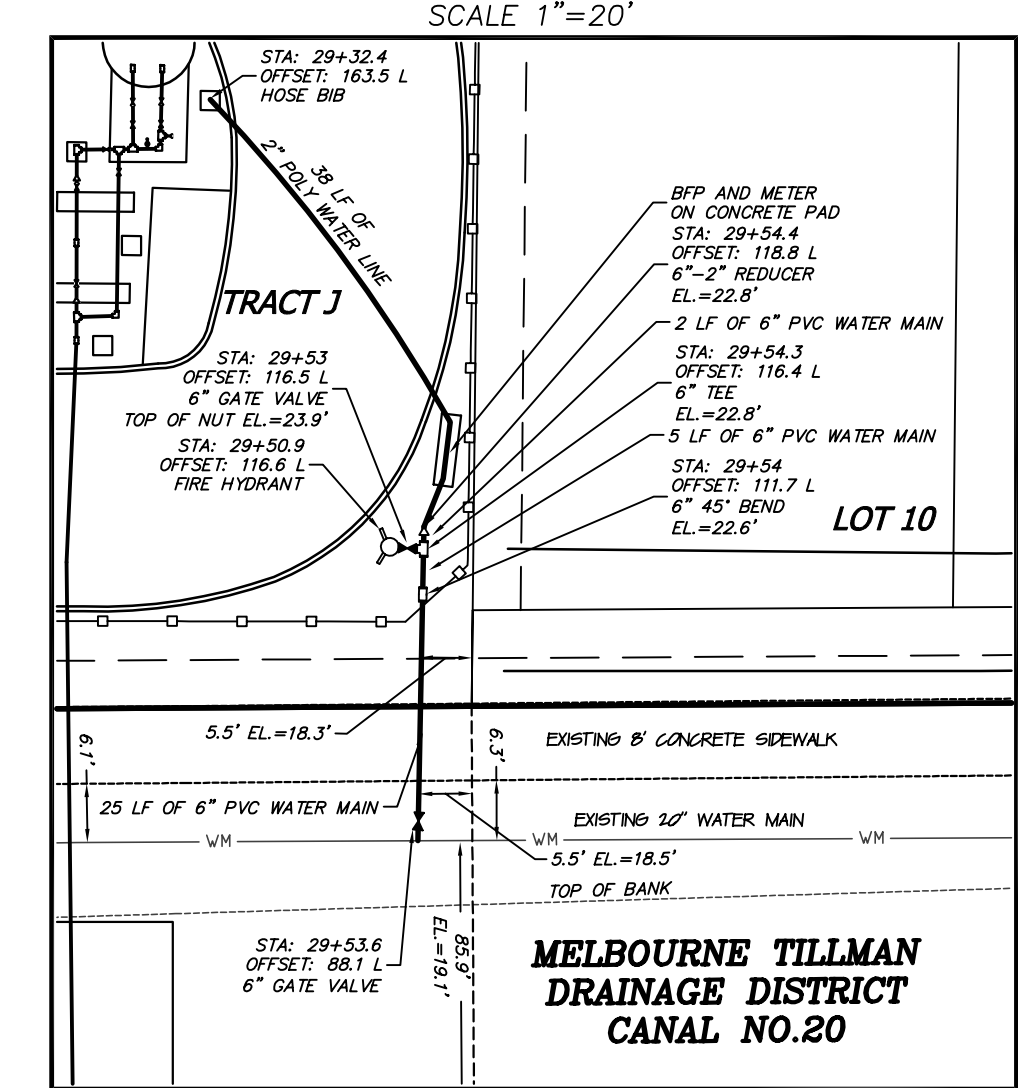
LYING IN SECTIONS 34 & 35, TOWNSHIP 28 SOUTH, RANGE 36 EAST,  
CITY OF PALM BAY, BREVARD COUNTY, FLORIDA

### WATER AS-BUILT SURVEY



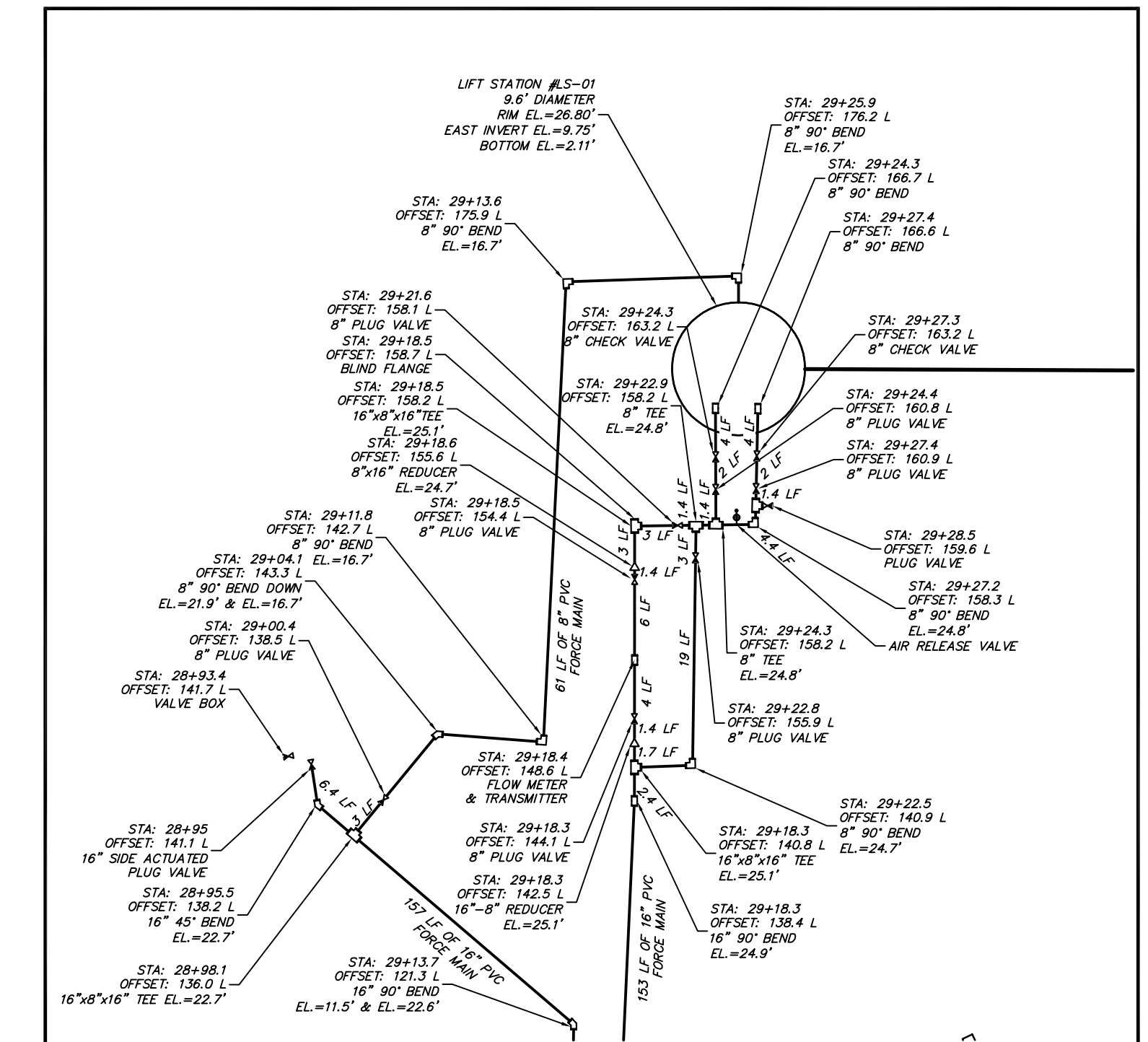
LINE TABLE		
LINE	BEARING	LENGTH
L1	N00°36'04"E	6.66'

CURVE TABLE					
CURVE	RADIUS	DELTA	LENGTH	CHORD	CHORD BEARING
C1	100.00'	89°02'53"	155.42'	140.24'	N45°07'30"E



### FORCE MAIN DETAIL

SCALE 1"=10'



### AS-BUILT SURVEY PREPARED FOR: AVERY SPRINGS DEVELOPMENT

LEGEND:		LEGEND:	
STA - STATION	L - CURVE LENGTH	○ - SINGLE REUSE SERVICE	W/- WITH
R - RIGHT OF BASELINE	R - CURVE RADIUS	○ - DOUBLE REUSE SERVICE	(P) - PLAT
L - LEFT OF BASELINE	D - CURVE DELTA	○ - SINGLE WATER SERVICE	(M) - MEASURED
PC - POLYLINE CHORD	(B.B.) BEARING BASIS	○ - DOUBLE WATER SERVICE	(D) - DEED
PC - POINT OF CURVATURE	F.I.R.M. FLOOD INSURANCE RATE MAP	○ - SINGLE SEWER SERVICE	FND. - FOUND
PT - POINT OF TANGENCY	WM - WATER METER	○ - DOUBLE SEWER SERVICE	(S) - INDICATES DOUBLE THE LOCATION
EL - ELEVATION	WG - WATER GATE VALVE	○ - INDICATES MANHOLE NUMBER	(*) - INDICATES SAMPLE LOCATION
LF - LINEAR FEET	RED - REDUCER	○ - OFFICIAL RECORDS BOOK	○ - OFFICIAL RECORDS BOOK
NA 83 - NORTH AMERICAN DATUM 1983	PH - FIRE HYDRANT	○ - TO BE DETERMINED	○ - TO BE DETERMINED
NAVD 88 - NORTH AMERICAN DATUM 1983	PC - FIRE DEPARTMENT CONNECTION	○ - TOP OF BANK	○ - TOP OF BANK
NAVD 29 - NATIONAL GEODETIC	PC - FIRE DEPARTMENT CONNECTION	○ - REINFORCED CONCRETE PIPE	○ - REINFORCED CONCRETE PIPE
PLS - PROFESSIONAL SURVEYOR	PC - FIRE DEPARTMENT CONNECTION	○ - CONSTRUCTED EDGE OF PAVEMENT	○ - CONSTRUCTED EDGE OF PAVEMENT
PSM - PROFESSIONAL SURVEYOR	PC - FIRE DEPARTMENT CONNECTION	○ - CONSTRUCTED 0.5' D CURB	○ - CONSTRUCTED 0.5' D CURB
PCP - PERMANENT CONTROL POINT	PC - FIRE DEPARTMENT CONNECTION	○ - CONSTRUCTED 2.0' C CURB	○ - CONSTRUCTED 2.0' C CURB
PRM - PERMANENT REFERENCE MONUMENT	PC - FIRE DEPARTMENT CONNECTION	○ - TRANSFORMER PAD	○ - TRANSFORMER PAD
SEC - SECTION	PC - FIRE DEPARTMENT CONNECTION	○ - SPOT ELEVATION LOCATION	○ - SPOT ELEVATION LOCATION
TWP - TOWNSHIP	PC - FIRE DEPARTMENT CONNECTION	○ - 4"x4" CONCRETE FOUND	○ - 4"x4" CONCRETE FOUND
RNG - RANGE	PC - FIRE DEPARTMENT CONNECTION	○ - 4"x4" CONCRETE SET AS NOTED	○ - 4"x4" CONCRETE SET AS NOTED
(R) - RADIAL	PC - FIRE DEPARTMENT CONNECTION	○ - 1/2" IRON MARKER	○ - 1/2" IRON MARKER
(NR) - NON-RADIAL	PC - FIRE DEPARTMENT CONNECTION	○ - SET OR FOUND AS NOTED	○ - SET OR FOUND AS NOTED
C - CHORD DISTANCE	PC - FIRE DEPARTMENT CONNECTION		
CB - CHORD BEARING	PC - FIRE DEPARTMENT CONNECTION		

NOTE:  
SEE "AVERY SPRINGS P.U.D." PLAT BOOK 69  
PAGE 29-31 FOR BASELINE GEOMETRY.

NOTE:  
ALL MAINS SHOWN FALL WITHIN PUBLIC OR  
EASEMENTS AND/OR PRIVATE  
RIGHTS-OF-WAY

NOTE:  
SOME AS-BUILT ITEMS SHOWN HEREON HAVE  
BEEN TAKEN BY SITE CONTRACTOR

## AAL LAND SURVEYING SERVICES, INC.

3970 MINTON ROAD, WEST MELBOURNE, FL 32904 L.B.#6623  
PHONE: (321)768-8110 FAX: (321)952-9771 E-MAIL: frontdesk@aalsurvey.com

SCALE: 1" = 20'

FIELD DATE: 01-04-22

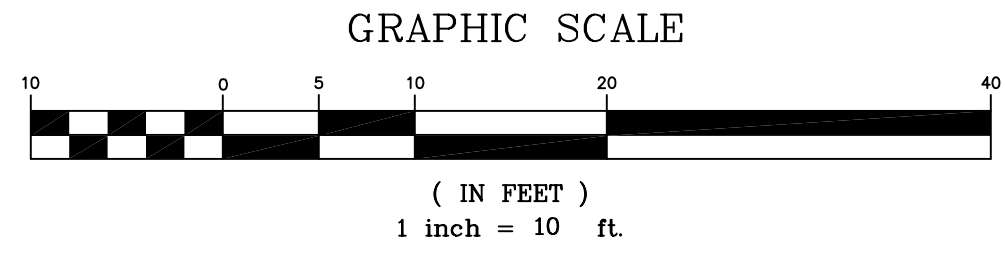
SECTION 34 & 35,  
TOWNSHIP 28 SOUTH,  
RANGE 36 EAST

PROJECT #A3280-LIFTSTA AB

SHEET 1 OF 2

ANDREW W. POWSHOK  
P.L.S. No. 5393

DANIEL D. GARNER  
P.L.S. No. 6189

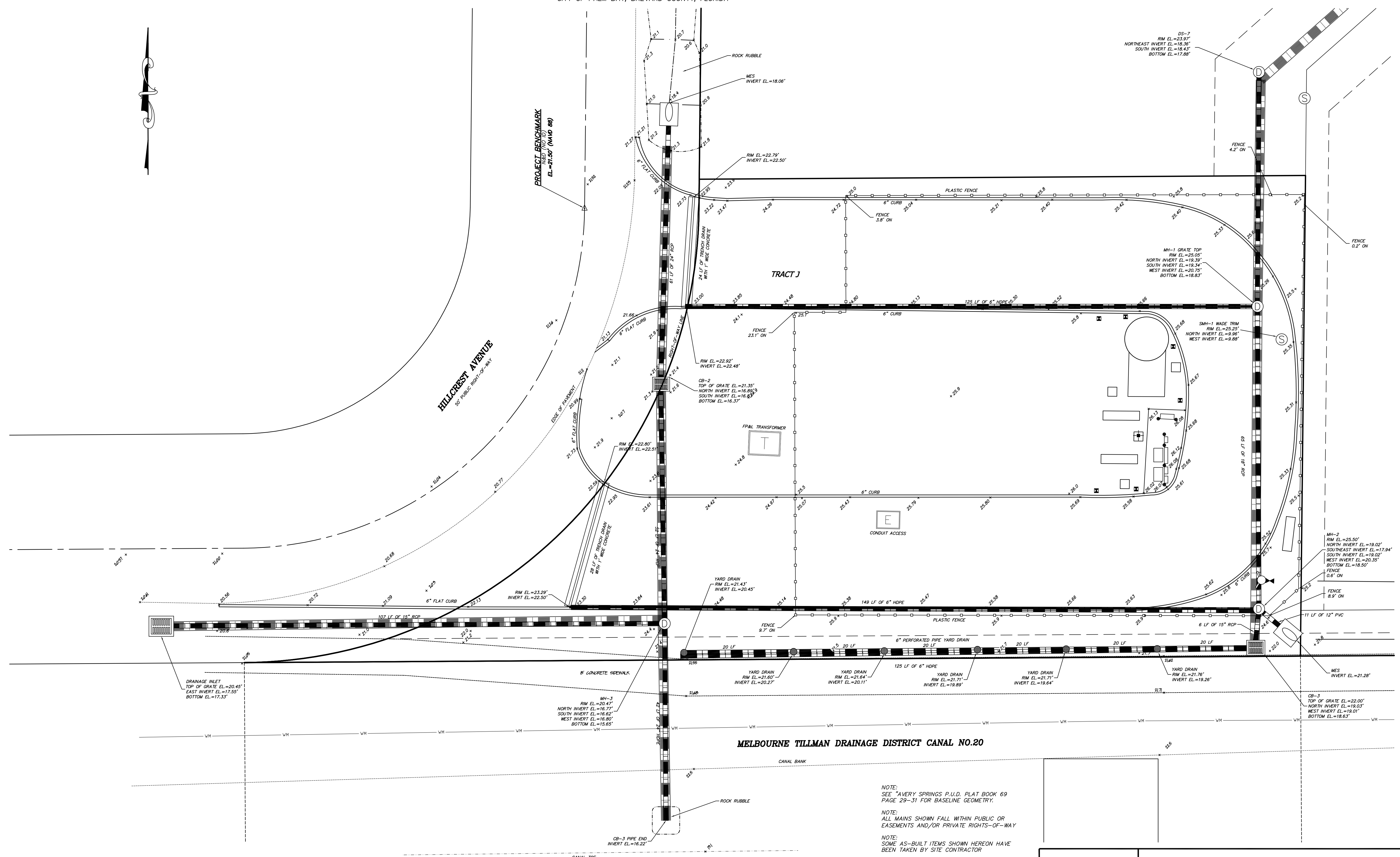


# AVERY SPRINGS P.U.D.

## CITY OF PALM BAY UTILITIES DEPARTMENT REGIONAL PUMP STATION NO.1

### PAVING AND DRAINAGE AS-BUILT SURVEY

LYING IN SECTIONS 34 & 35, TOWNSHIP 28 SOUTH, RANGE 36 EAST,  
CITY OF PALM BAY, BREVARD COUNTY, FLORIDA



NOTE:  
SEE "AVERY SPRINGS P.U.D. PLAT BOOK 69  
PAGE 29-31 FOR BASELINE GEOMETRY.

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EASEMENTS AND/OR PRIVATE RIGHTS-OF-WAY

NOTE:  
SOME AS-BUILT ITEMS SHOWN HEREON HAVE  
BEEN TAKEN BY SITE CONTRACTOR

AS-BUILT SURVEY PREPARED FOR:  
AVERY SPRINGS DEVELOPMENT

SEE SHEET 1 FOR  
SURVEYOR'S CERTIFICATION.  
NOT VALID WITHOUT SHEETS 1-2

**SHEET 2 OF 2**

PROJECT #43280-LIFTSTA AB  
FIELD SURVEY DATE: 01-28-22  
REVISION: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
REVISION: PAVEMENT UPDATED 03-28-22

**AAL LAND SURVEYING SERVICES, INC.**

3970 MINTON ROAD, WEST MELBOURNE, FL 32904  
PHONE: (321)768-8110 FAX: (321)952-9771  
E-MAIL: frontdesk@aalsurvey.com

**LB. #6623**



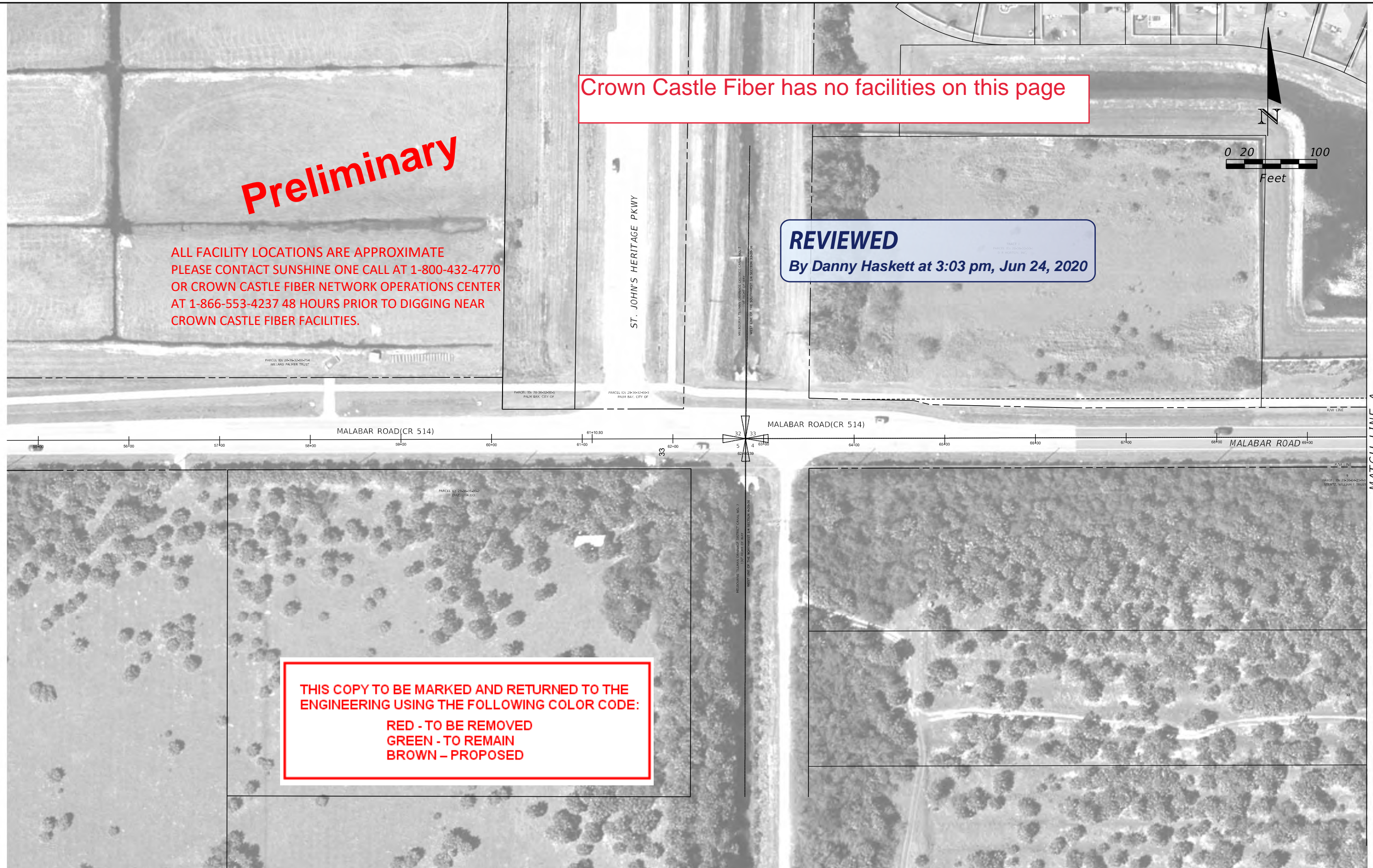
## **Crown Castle Fiber**

**Preliminary**

ALL FACILITY LOCATIONS ARE APPROXIMATE  
PLEASE CONTACT SUNSHINE ONE CALL AT 1-800-432-4770  
OR CROWN CASTLE FIBER NETWORK OPERATIONS CENTER  
AT 1-866-553-4237 48 HOURS PRIOR TO DIGGING NEAR  
CROWN CASTLE FIBER FACILITIES.

Crown Castle Fiber has no facilities on this page

**REVIEWED**  
By Danny Haskett at 3:03 pm, Jun 24, 2020

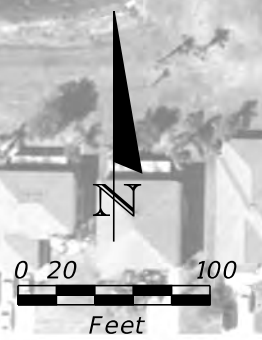


THIS COPY TO BE MARKED AND RETURNED TO THE  
ENGINEERING USING THE FOLLOWING COLOR CODE:  
RED - TO BE REMOVED  
GREEN - TO REMAIN  
BROWN - PROPOSED

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			MALABAR ROAD PD&E STUDY PLANSHEET	SHEET NO.  1
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					BREVARD			



Crown Castle Fiber has no facilities on this page



MATCH LINE A

MATCH LINE B

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	MALABAR ROAD PD&E STUDY PLANSHEET		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				
							ROAD NO.
					BREVARD		





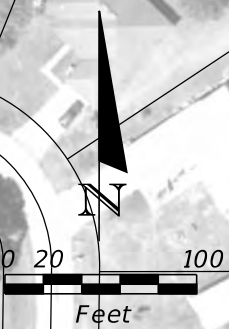
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REVISIONS					STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			MALABAR ROAD PD&E STUDY PLANSHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		3
						BREVARD			





Crown Castle Fiber has no facilities on this page



MATCH LINE C

MATCH LINE D

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			MALABAR ROAD PD&E STUDY PLANSHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		4
					BREVARD			





Crown Castle Fiber has no facilities on this page

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			MALABAR ROAD PD&E STUDY PLANSHEET	SHEET NO.  5
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					BREVARD			



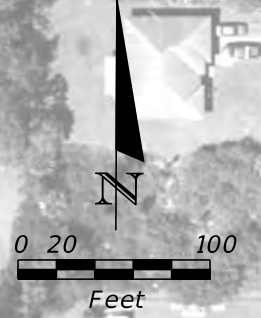


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Malabar Road County Maintained  
West of this point.

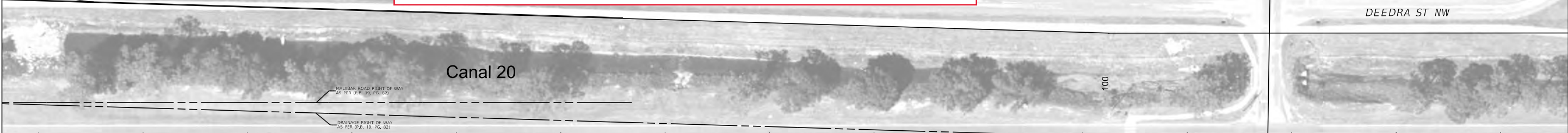
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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	FINANCIAL PROJECT ID	
					BREVARD		





Crown Castle Fiber has no facilities on this page

Unit 26



Canal 20

MATCH LINE F

MATCH LINE G



2903091 1/1702 Williams Estate Vacant	2903091 2/1702 Williams Estate Vacant	2903091 3/1702 Williams Estate Vacant	2903091 4/1702 Williams Estate Vacant	2903095 5/1702 Williams Estate Vacant	2903095 6/1702 Williams Estate Vacant	2903097 7/1702 City of Palm Bay Vacant	2903098 8/1702 City of Palm Bay Vacant	2903099 9/1702 City of Palm Bay Vacant	2903100 10/1702 City of Palm Bay Vacant	2903101 11/1702 Mason Vacant	2903102 12/1702 Campbell Vacant	2902938 1/1695 Gunn Occupied	2902939 2/1695 Sookoo Vacant	2902940 3/1695 Young Vacant	2902941 4/1695 City of Palm Bay Vacant	2902942 5/1695 Suarez Vacant
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REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			MALABAR ROAD PD&E STUDY PLANSHEET	SHEET NO.  7
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					BREVARD			



ALL FACILITY LOCATIONS ARE APPROXIMATE  
 PLEASE CONTACT SUNSHINE ONE CALL AT 1-800-432-4770  
 OR CROWN CASTLE FIBER NETWORK OPERATIONS CENTER  
 AT 1-866-553-4237 48 HOURS PRIOR TO DIGGING NEAR  
 CROWN CASTLE FIBER FACILITIES.

Crown Castle Fiber  
 (2) 1.5" HDPE Conduits



Unit 26

Canal 20

Canal 20

MALABAR ROAD

WATOGA AVE SW

WING RD SW

WING RD SW

2902943  
6/1695  
Suarez  
Vacant

2902944  
7/1695  
City of Palm Bay  
Vacant

2902945  
8/1695  
Jameer  
Vacant

2902946  
9/1695  
City of Palm Bay  
Vacant

2902947  
10/1695  
City of Palm Bay  
Occupied

2902948  
11/1695  
Aguste  
Vacant

2902949  
12/1695  
Real Estate Property  
Investments LLC  
Vacant

2902950  
13/1695  
City of Palm Bay  
Vacant

2902951  
14/1695  
Caillung  
Vacant

2901351  
28/982  
City of Palm Bay  
Occupied

2901352  
29/982  
City of Palm Bay  
Vacant

2901353  
30/982  
City of Palm Bay  
Vacant

2901354  
31/982  
JD Valor LLC  
Vacant

2901355  
32/982  
Botner  
Vacant

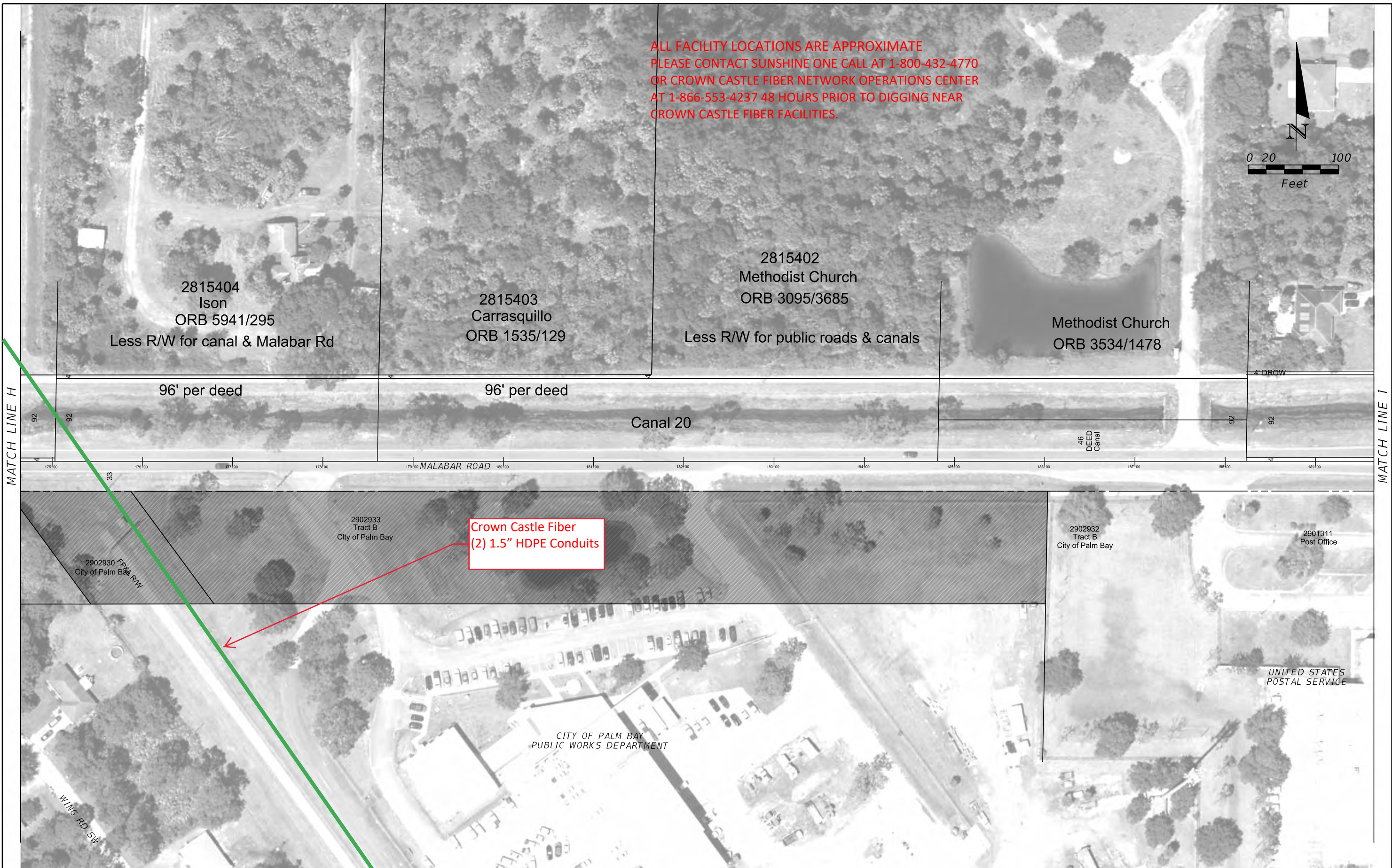
2901356  
33/982  
Guerrier  
Vacant

2901357  
34/982  
City of Palm Bay  
Vacant

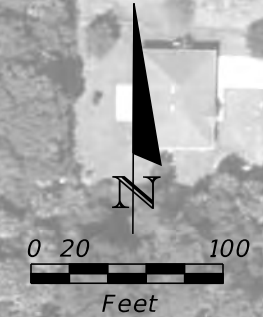
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35/982  
Vicente  
Vacant

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			MALABAR ROAD PD&E STUDY PLANSHEET	SHEET NO.  8
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					BREVARD			





ALL FACILITY LOCATIONS ARE APPROXIMATE  
 PLEASE CONTACT SUNSHINE ONE CALL AT 1-800-432-4770  
 OR CROWN CASTLE FIBER NETWORK OPERATIONS CENTER  
 AT 1-866-553-4237 48 HOURS PRIOR TO DIGGING NEAR  
 CROWN CASTLE FIBER FACILITIES.



2815404  
 Ison  
 ORB 5941/295  
 Less R/W for canal & Malabar Rd

2815403  
 Carrasquillo  
 ORB 1535/129

2815402  
 Methodist Church  
 ORB 3095/3685  
 Less R/W for public roads & canals

Methodist Church  
 ORB 3534/1478

96' per deed

96' per deed

Canal 20

MALABAR ROAD

2902933  
 Tract B  
 City of Palm Bay

Crown Castle Fiber  
 (2) 1.5" HDPE Conduits

2902932  
 Tract B  
 City of Palm Bay

2901311  
 Post Office

UNITED STATES  
 POSTAL SERVICE

CITY OF PALM BAY  
 PUBLIC WORKS DEPARTMENT

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			MALABAR ROAD PD&E STUDY PLANSHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					BREVARD			9

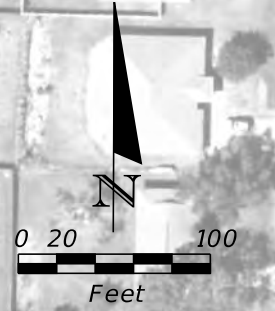




REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	MALABAR ROAD PD&E STUDY PLANSHEET			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION					
								ROAD NO.
					BREVARD			



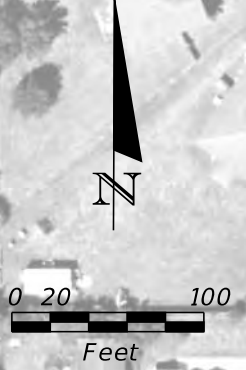
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DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
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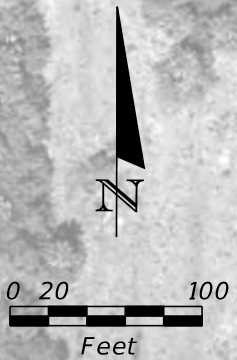
Unit 13



REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			MALABAR ROAD PD&E STUDY PLANSHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
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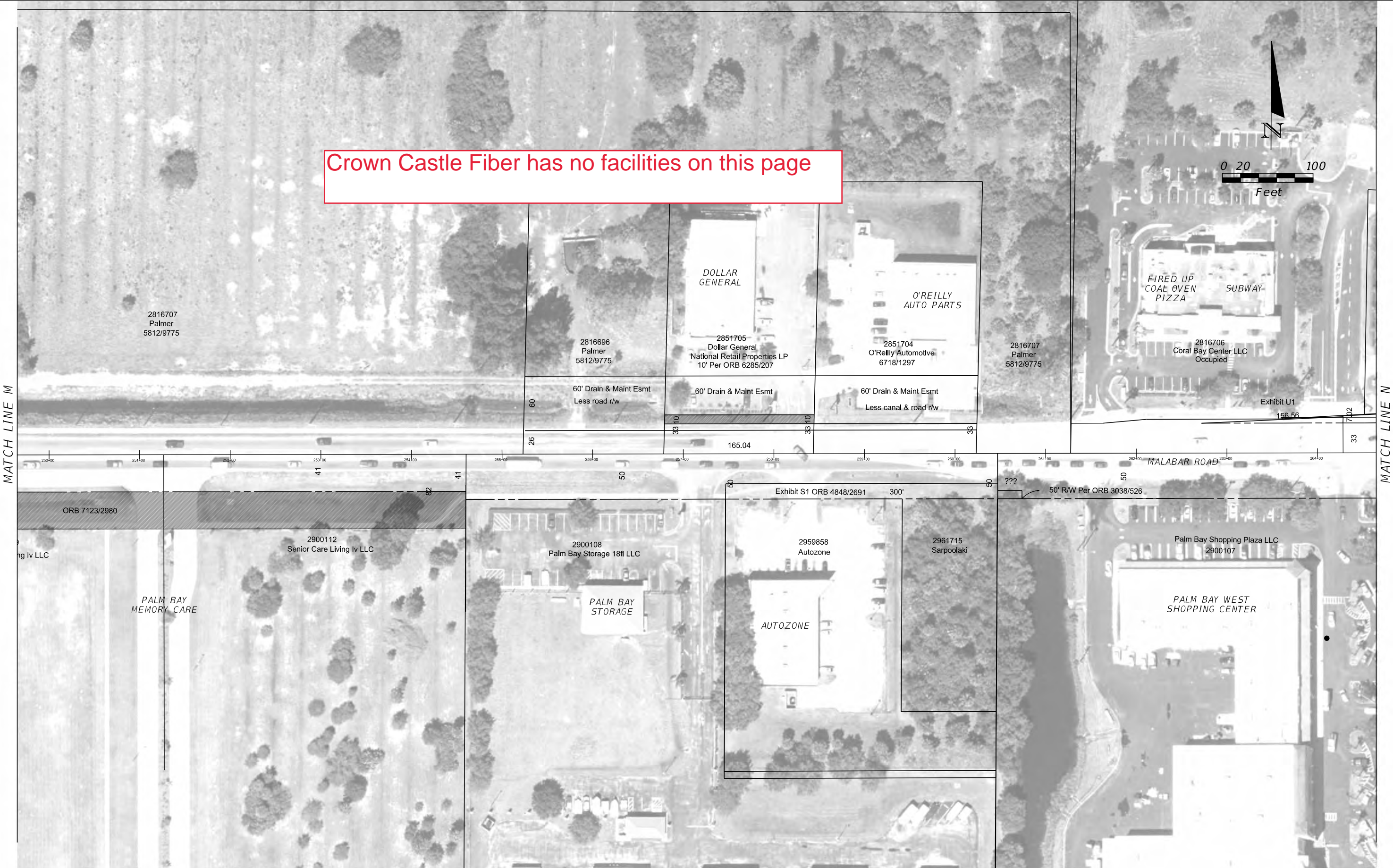
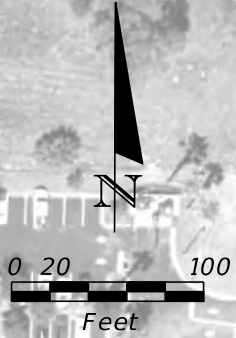
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REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			MALABAR ROAD PD&E STUDY PLANSHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					BREVARD			13



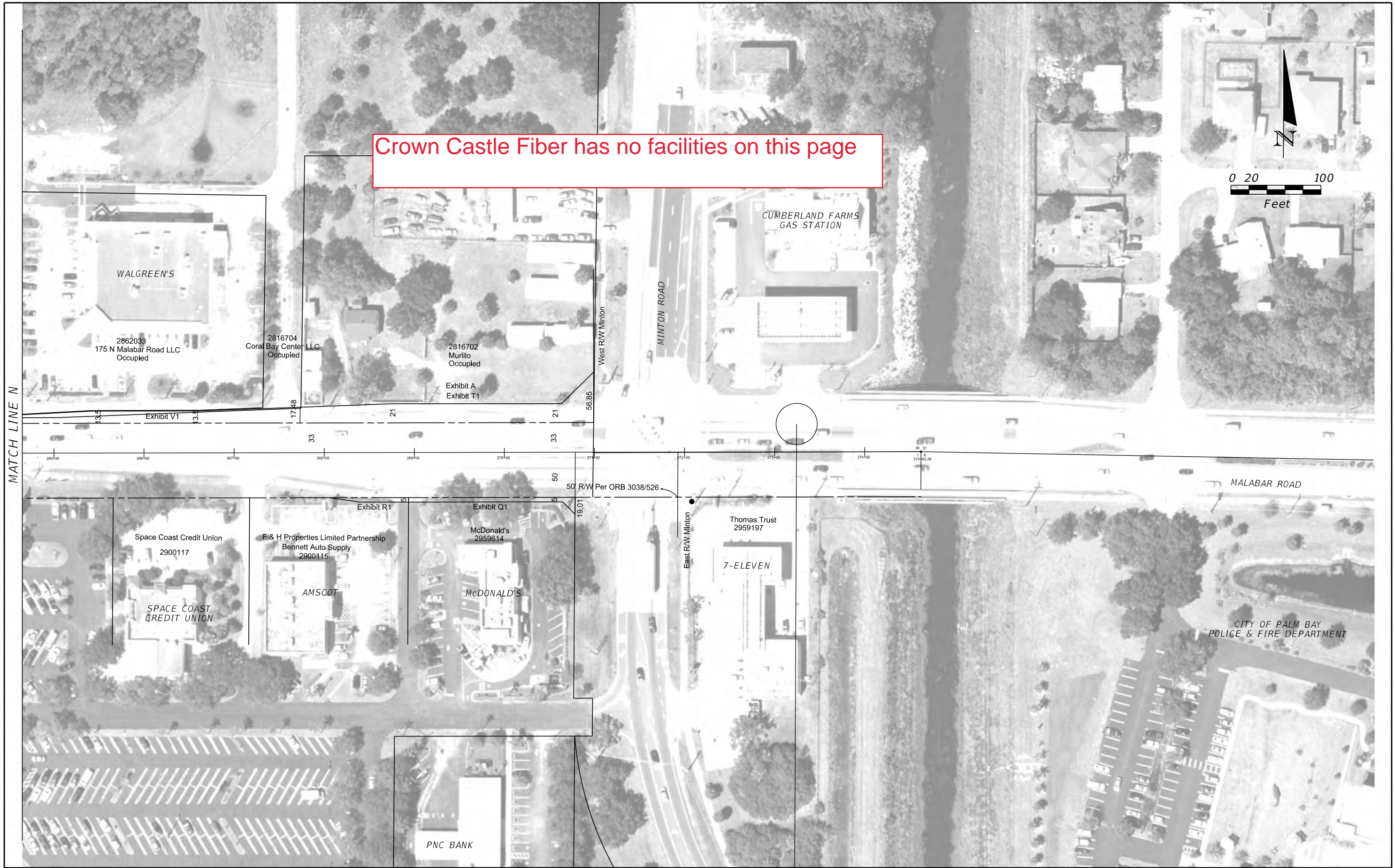
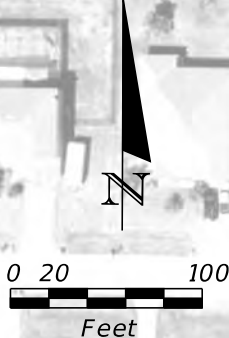
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REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			MALABAR ROAD PD&E STUDY PLANSHEET	SHEET NO.  14
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					BREVARD			



Crown Castle Fiber has no facilities on this page



MATCH LINE N

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	MALABAR ROAD PD&E STUDY PLANSHEET		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				
							ROAD NO.
					BREVARD		

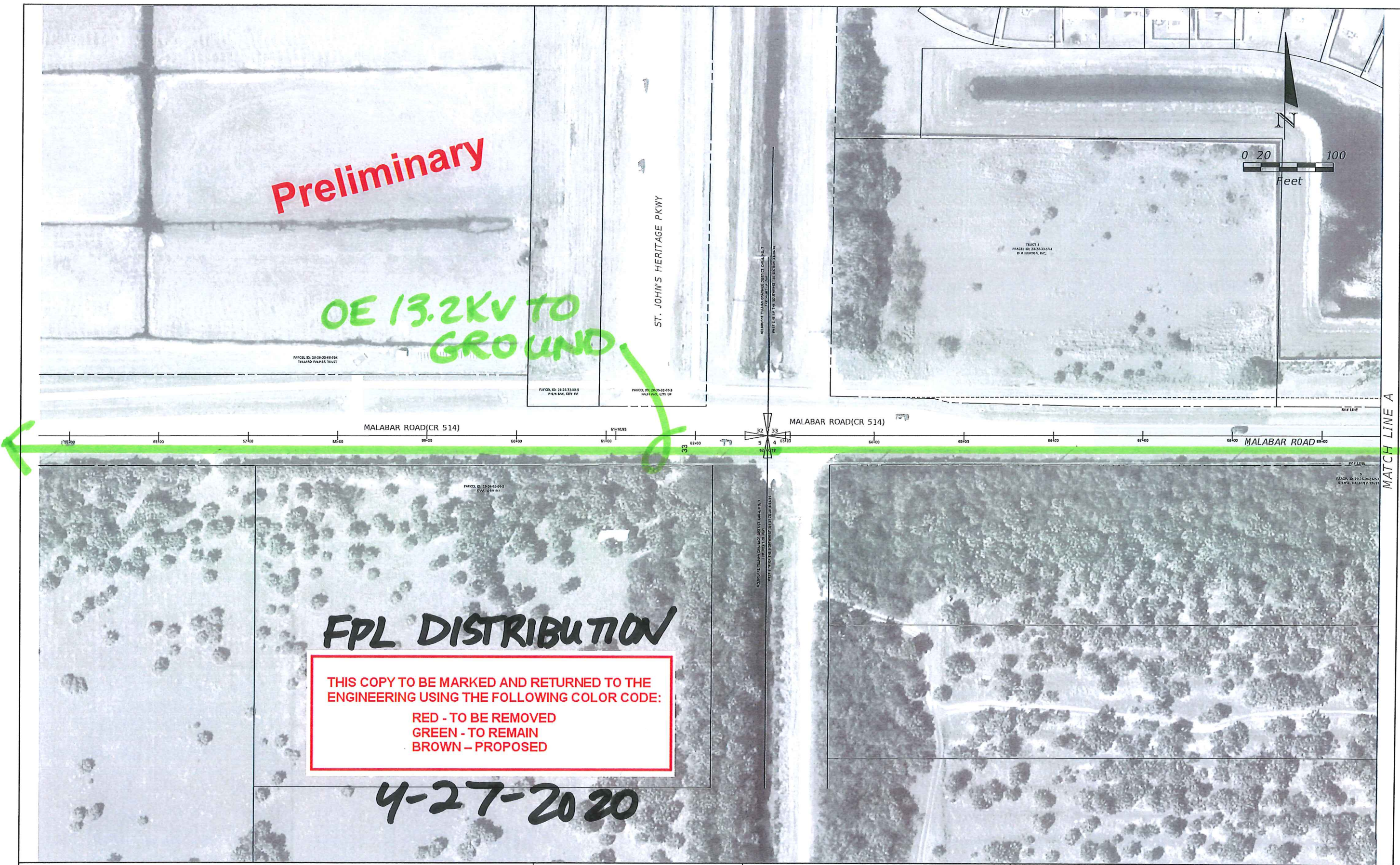
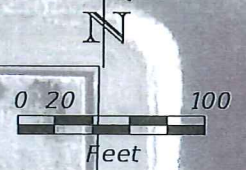


# **Florida Power and Light Distribution**



**Preliminary**

**OE 13.2KV TO GROUND**



**FPL DISTRIBUTION**

**THIS COPY TO BE MARKED AND RETURNED TO THE ENGINEERING USING THE FOLLOWING COLOR CODE:**  
**RED - TO BE REMOVED**  
**GREEN - TO REMAIN**  
**BROWN - PROPOSED**

**4-27-2020**

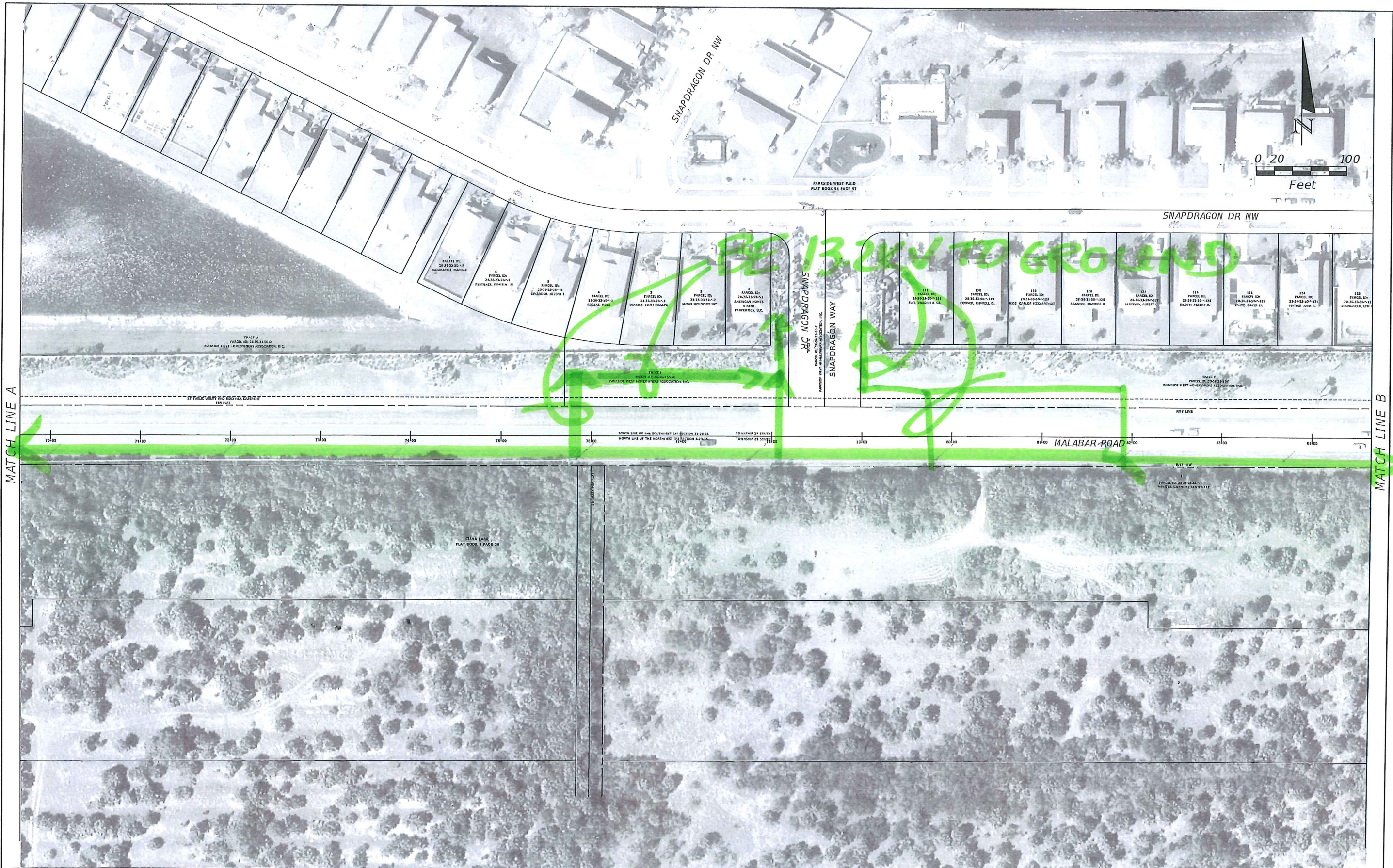
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	BREVARD	

**MALABAR ROAD PD&E STUDY  
PLANSHEET**

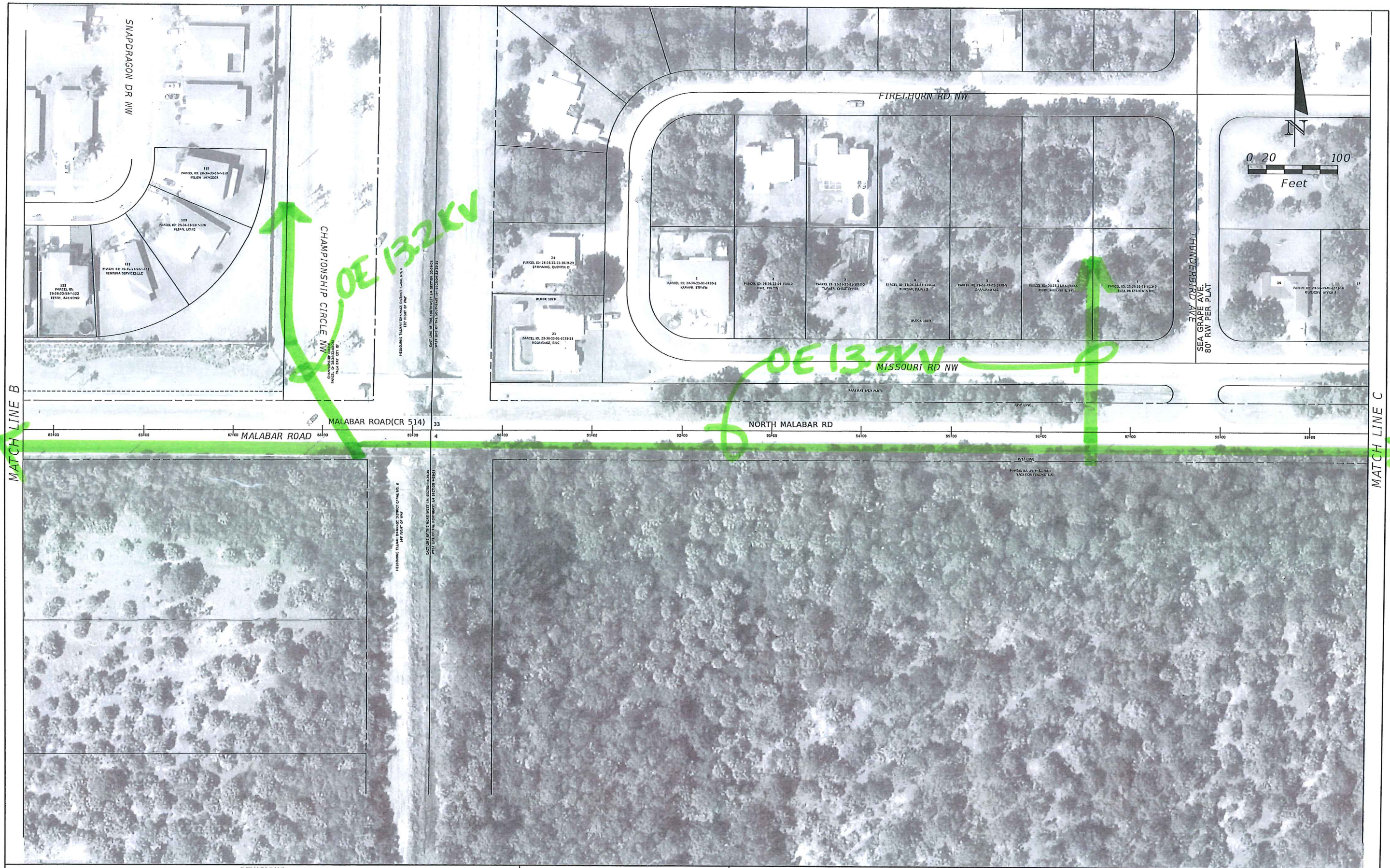
SHEET NO.  
**1**





REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	MALABAR ROAD PD&E STUDY PLANSHEET		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				
							ROAD NO.
					BREVARD		





MATCH LINE B

MATCH LINE C

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	BREVARD	

<b>MALABAR ROAD PD&amp;E STUDY PLANSHEET</b>	SHEET NO.  3
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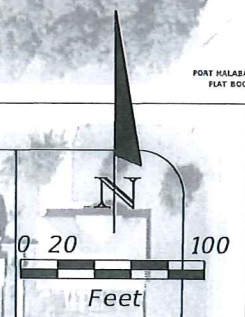
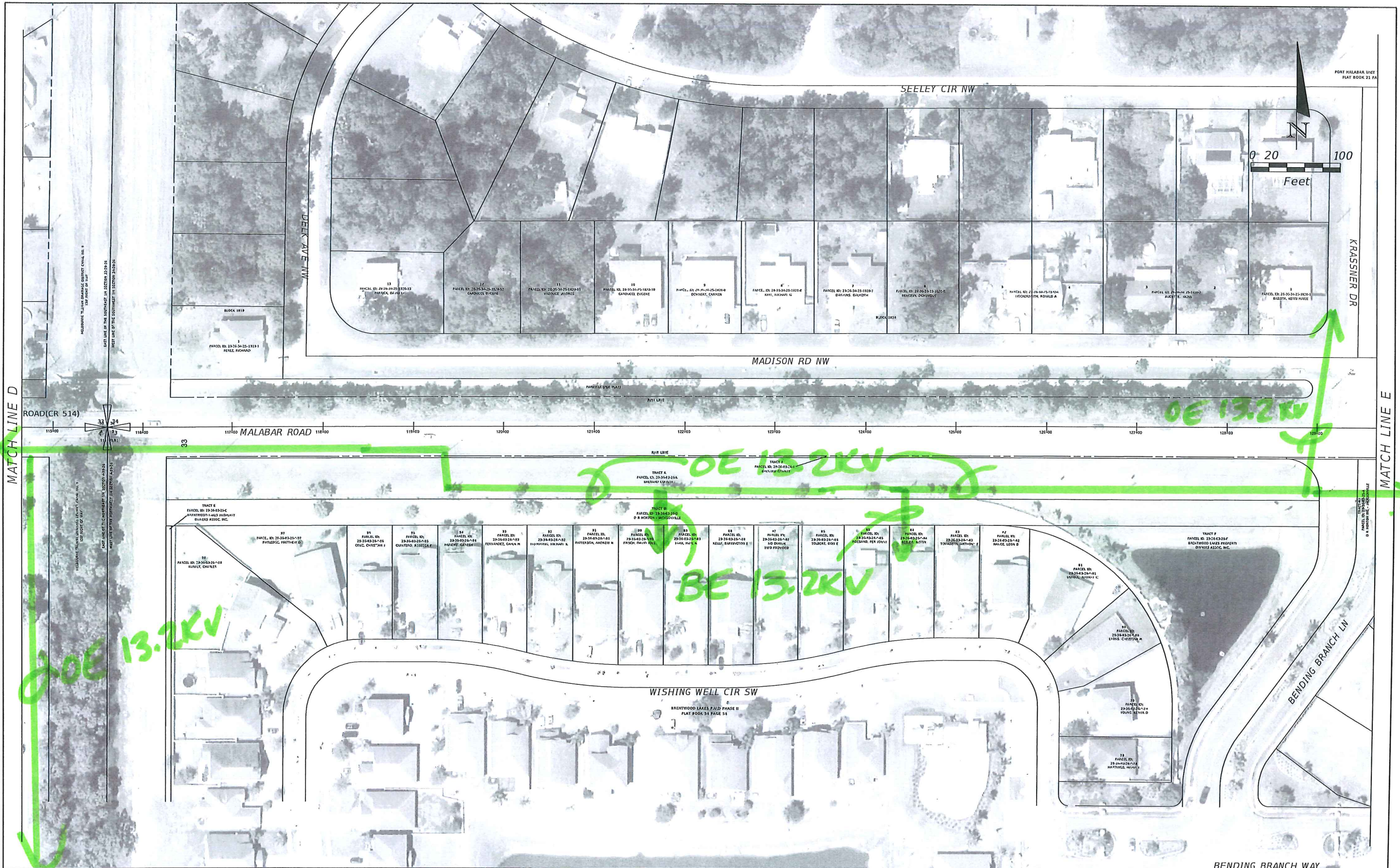
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	BREVARD	

**MALABAR ROAD PD&E STUDY  
PLANSHEET**

SHEET NO.  
**4**





REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			MALABAR ROAD PD&E STUDY PLANSHEET	SHEET NO.  5
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
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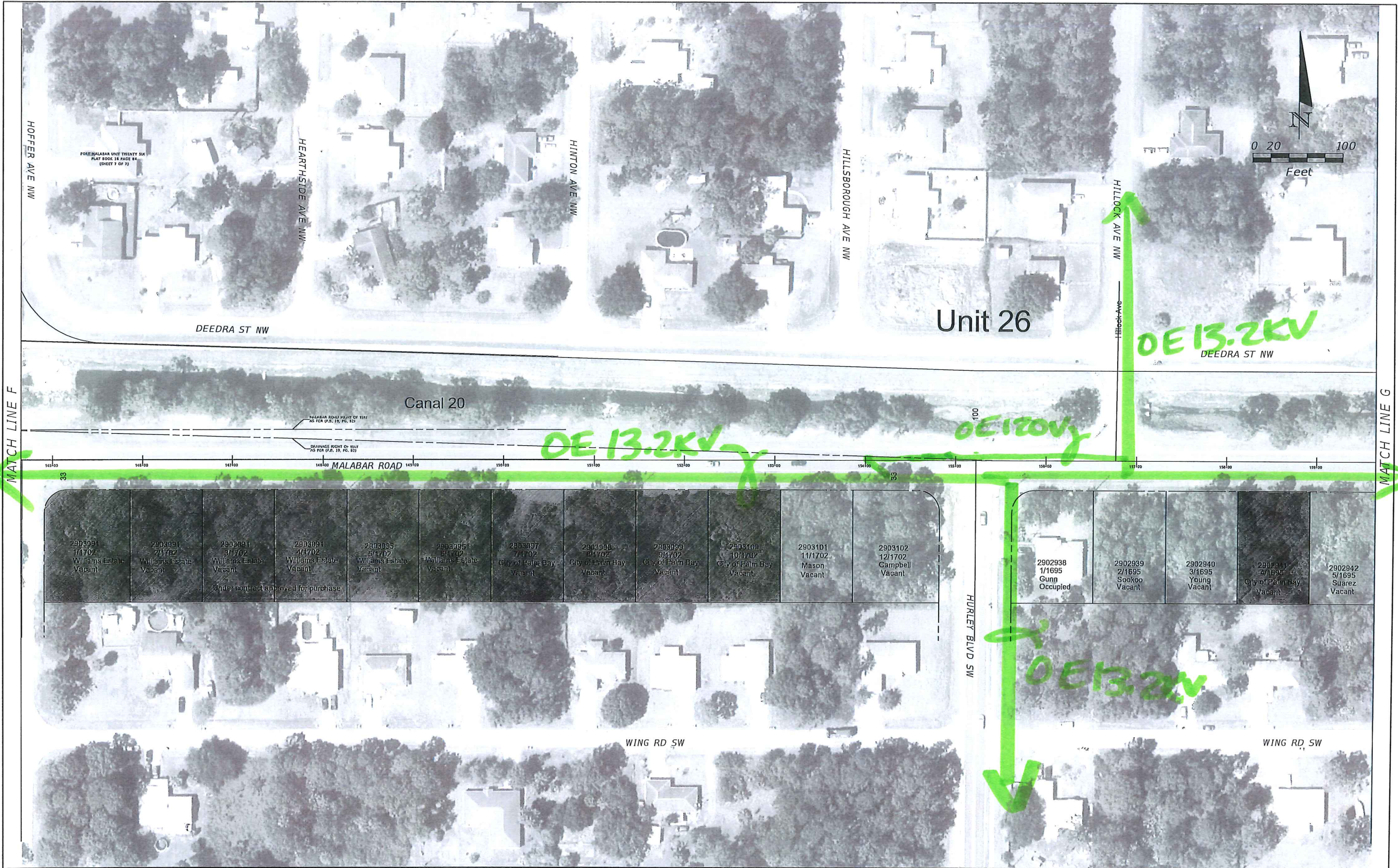




Malabar Road County Maintained  
West of this point.

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			MALABAR ROAD PD&E STUDY PLANSHEET	SHEET NO.  6
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					BREVARD			

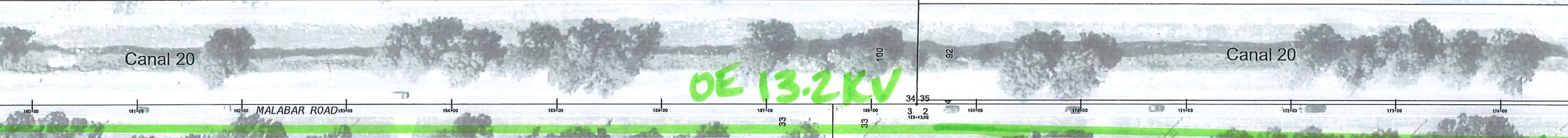




2903091 1/1702 Williams Estate Vacant	2903091 2/1702 Williams Estate Vacant	2903091 3/1702 Williams Estate Vacant	2903091 4/1702 Williams Estate Vacant	2903095 5/1702 Williams Estate Vacant	2903095 6/1702 Williams Estate Vacant	2903097 7/1702 City of Palm Bay Vacant	2903098 8/1702 City of Palm Bay Vacant	2903099 9/1702 City of Palm Bay Vacant	2903100 10/1702 City of Palm Bay Vacant	2903101 11/1702 Mason Vacant	2903102 12/1702 Campbell Vacant	2902938 1/1695 Gunn Occupied	2902939 2/1695 Sookoo Vacant	2902940 3/1695 Young Vacant	2902941 4/1695 City of Palm Bay Vacant	2902942 5/1695 Suarez Vacant
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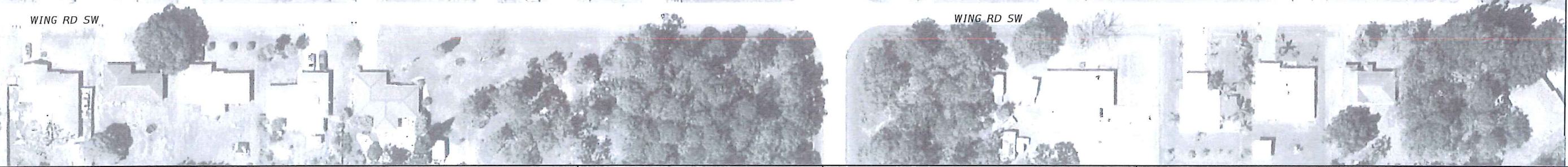
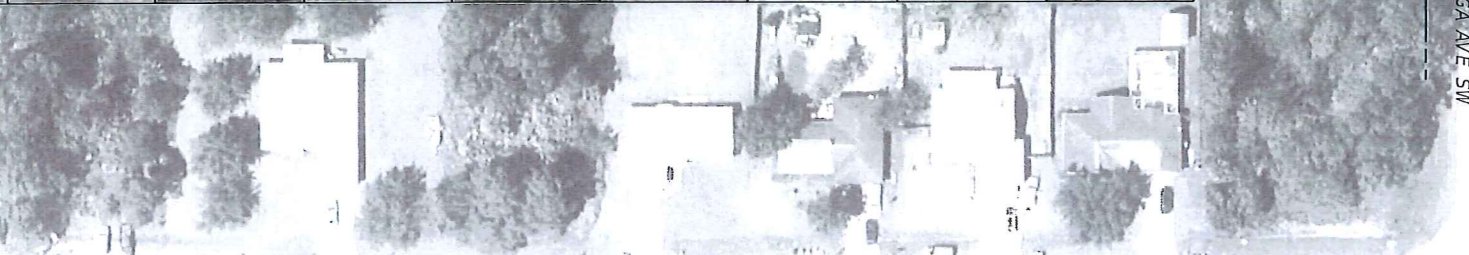
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DATE	DESCRIPTION	DATE	DESCRIPTION				
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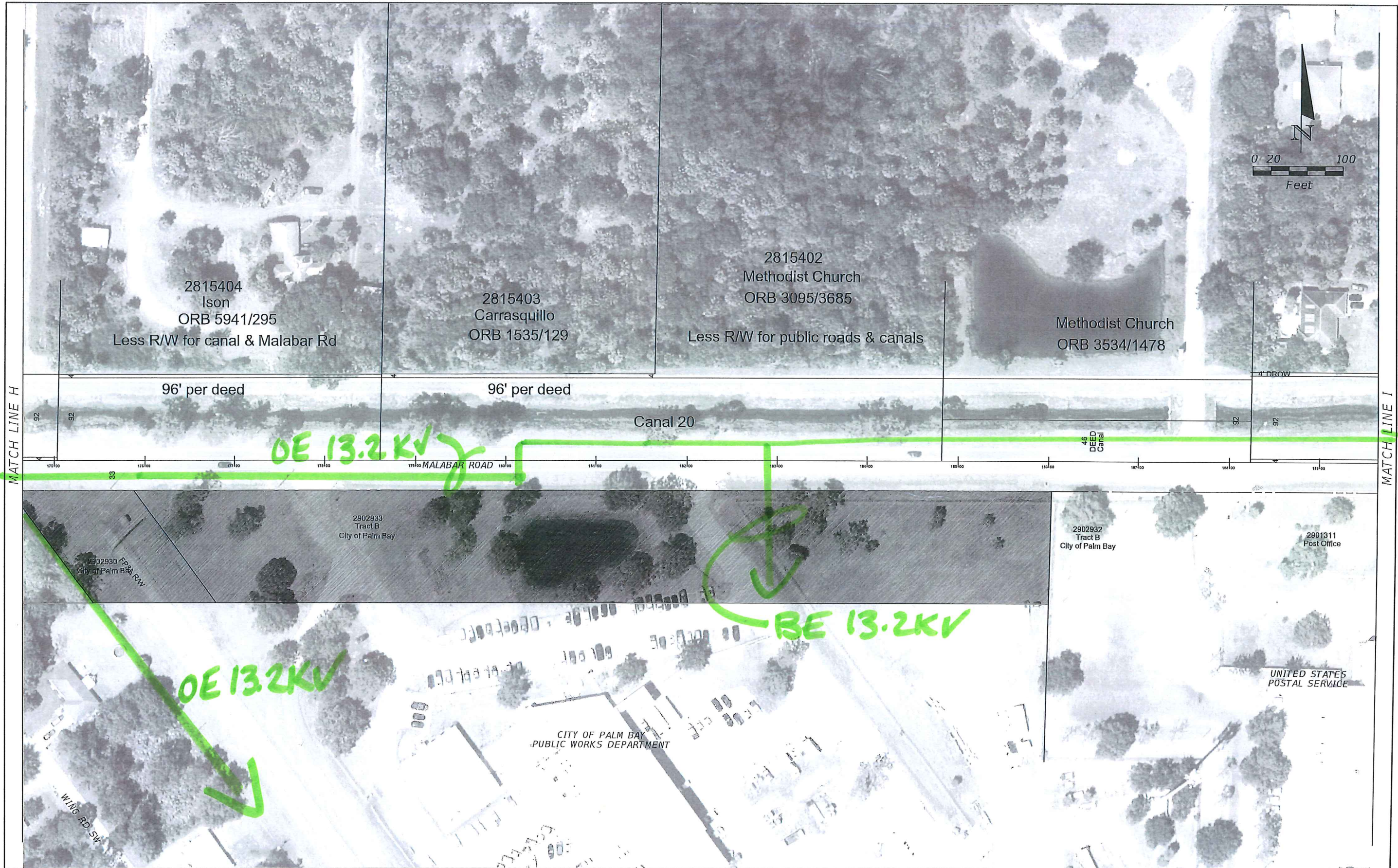
2902943 6/1695 Suarez Vacant	2902944 7/1695 City of Palm Bay Vacant	2902945 8/1695 Jameer Vacant	2902946 9/1695 City of Palm Bay Vacant	2902947 10/1695 City of Palm Bay Occupied	2902948 11/1695 Aguste Vacant	2902949 12/1695 Real Estate Property Investments LLC Vacant	2902950 13/1695 City of Palm Bay Vacant	2902951 14/1695 Callung Vacant
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2901351 28/982 City of Palm Bay Occupied	2901352 29/982 City of Palm Bay Vacant	2901353 30/982 City of Palm Bay Vacant	2901354 31/982 JD Valor LLC Vacant	2901355 32/982 Botner Vacant	2901356 33/982 Guerrier Vacant	2901357 34/982 City of Palm Bay Vacant	2901358 35/982 Vicente Vacant
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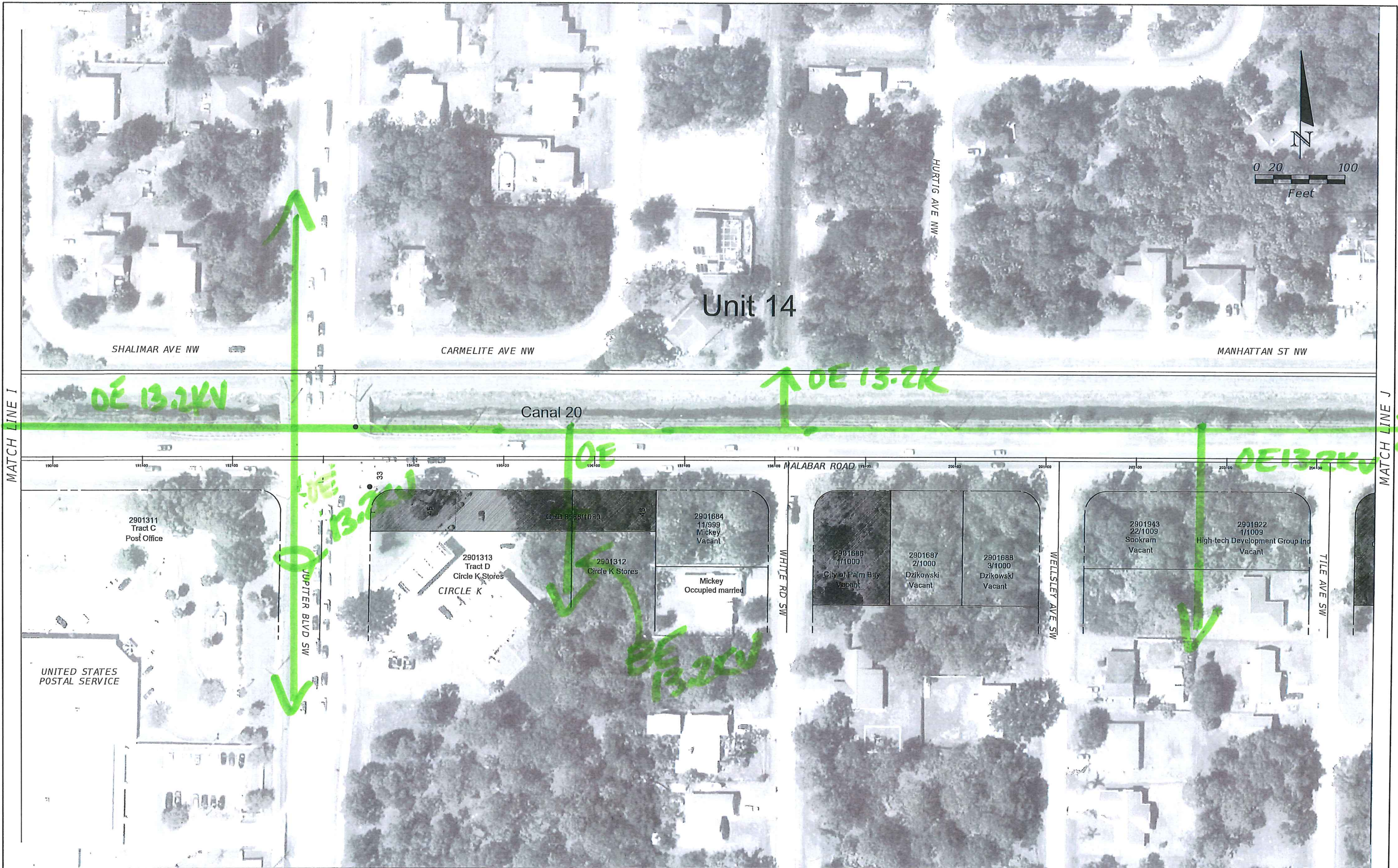
REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	MALABAR ROAD PD&E STUDY PLANSHEET		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				
							ROAD NO.
					BREVARD		





REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	MALABAR ROAD PD&E STUDY PLANSHEET		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				
							ROAD NO.
					BREVARD		





REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	MALABAR ROAD PD&E STUDY PLANSHEET	SHEET NO. 10
DATE	DESCRIPTION	DATE	DESCRIPTION			
				ROAD NO.	COUNTY	FINANCIAL PROJECT ID
					BREVARD	





MATCH LINE J

MATCH LINE K

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			MALABAR ROAD PD&E STUDY PLANSHEET	SHEET NO.  11
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					BREVARD			





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	BREVARD	

MALABAR ROAD PD&E STUDY  
PLANSHEET

SHEET NO.
12





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	BREVARD	

MALABAR ROAD PD&E STUDY PLANSHEET	
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SHEET NO.
13



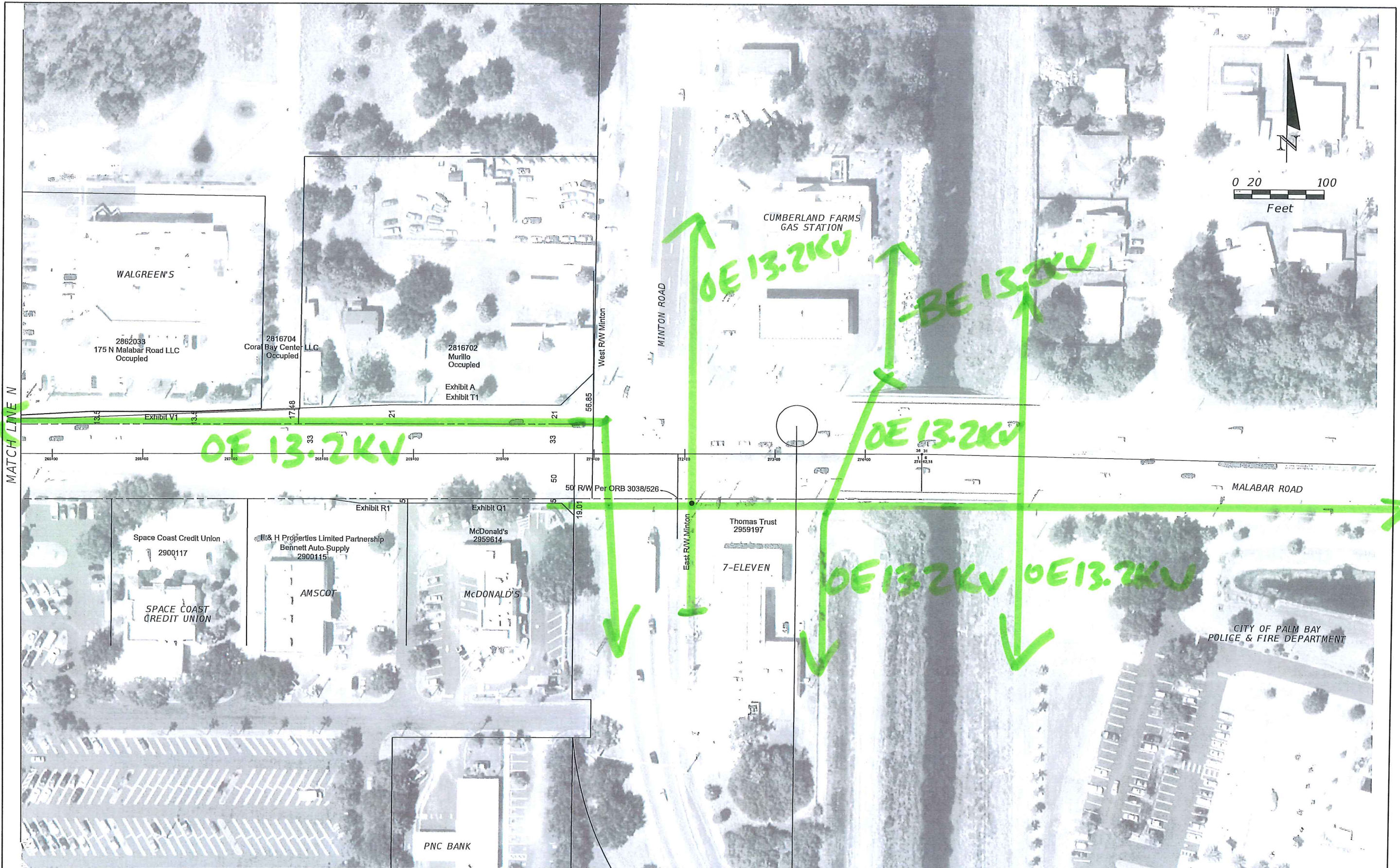


REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	BREVARD	

MALABAR ROAD PD&E STUDY PLANSHEET	SHEET NO. 14
--------------------------------------	-----------------





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	BREVARD	

**MALABAR ROAD PD&E STUDY  
PLANSHEET**

SHEET NO.  
**15**



Call before you dig! 1-800-432-4770

CO-0700

Confidential: For Florida Power & Light Company use only.

1:300

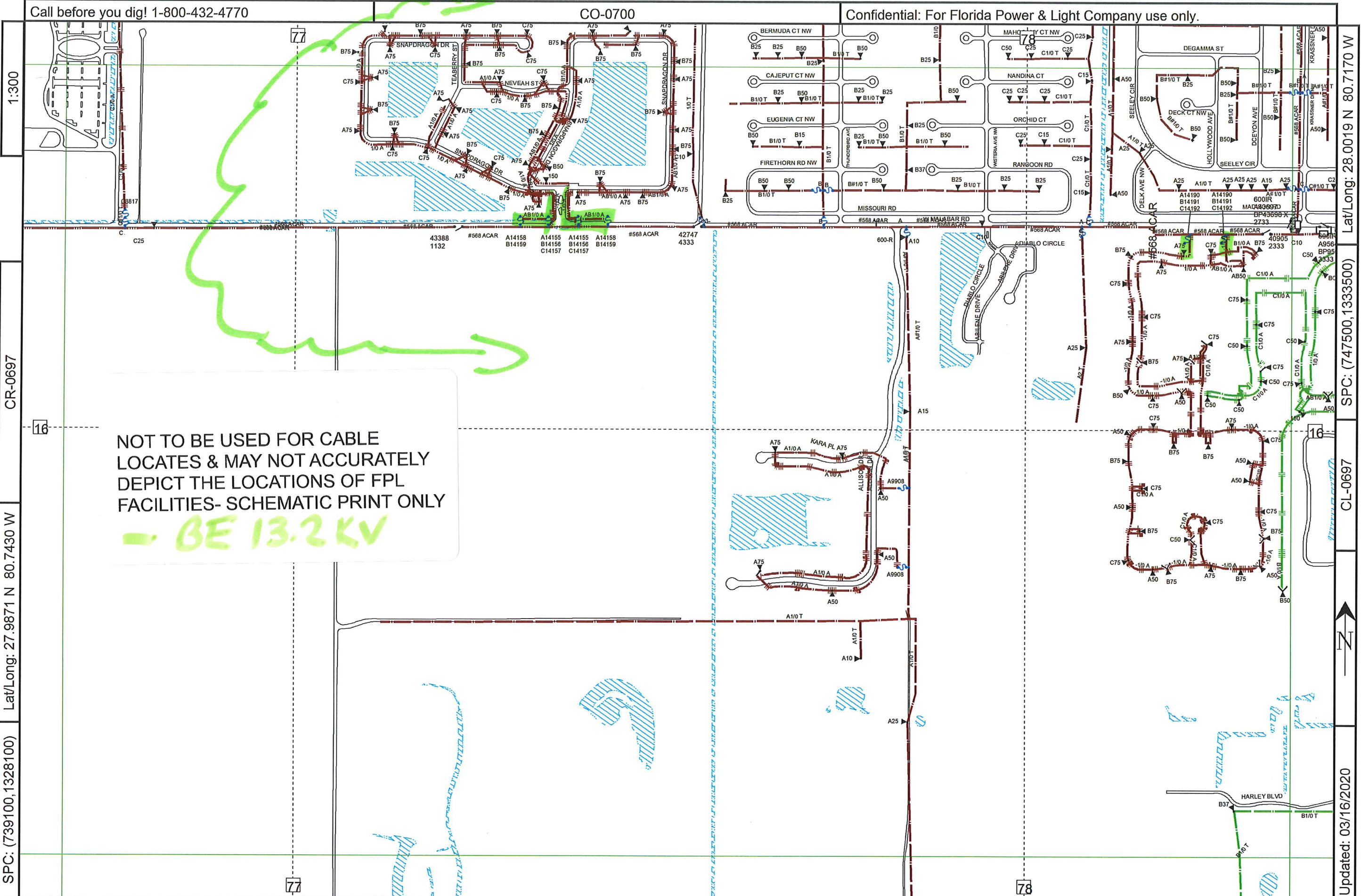
CR-0697

SPC: (739100,1328100) Lat/Long: 27.9871 N 80.7430 W

Lat/Long: 28.0019 N 80.7170 W  
SPC: (747500,1333500)  
CL-0697  
Updated: 03/16/2020

NOT TO BE USED FOR CABLE LOCATES & MAY NOT ACCURATELY DEPICT THE LOCATIONS OF FPL FACILITIES- SCHEMATIC PRINT ONLY

**BE 13.2 KV**



County: Brevard

Mgmt Area: Brevard

Svc Ctr: Melbourne

CO-0694



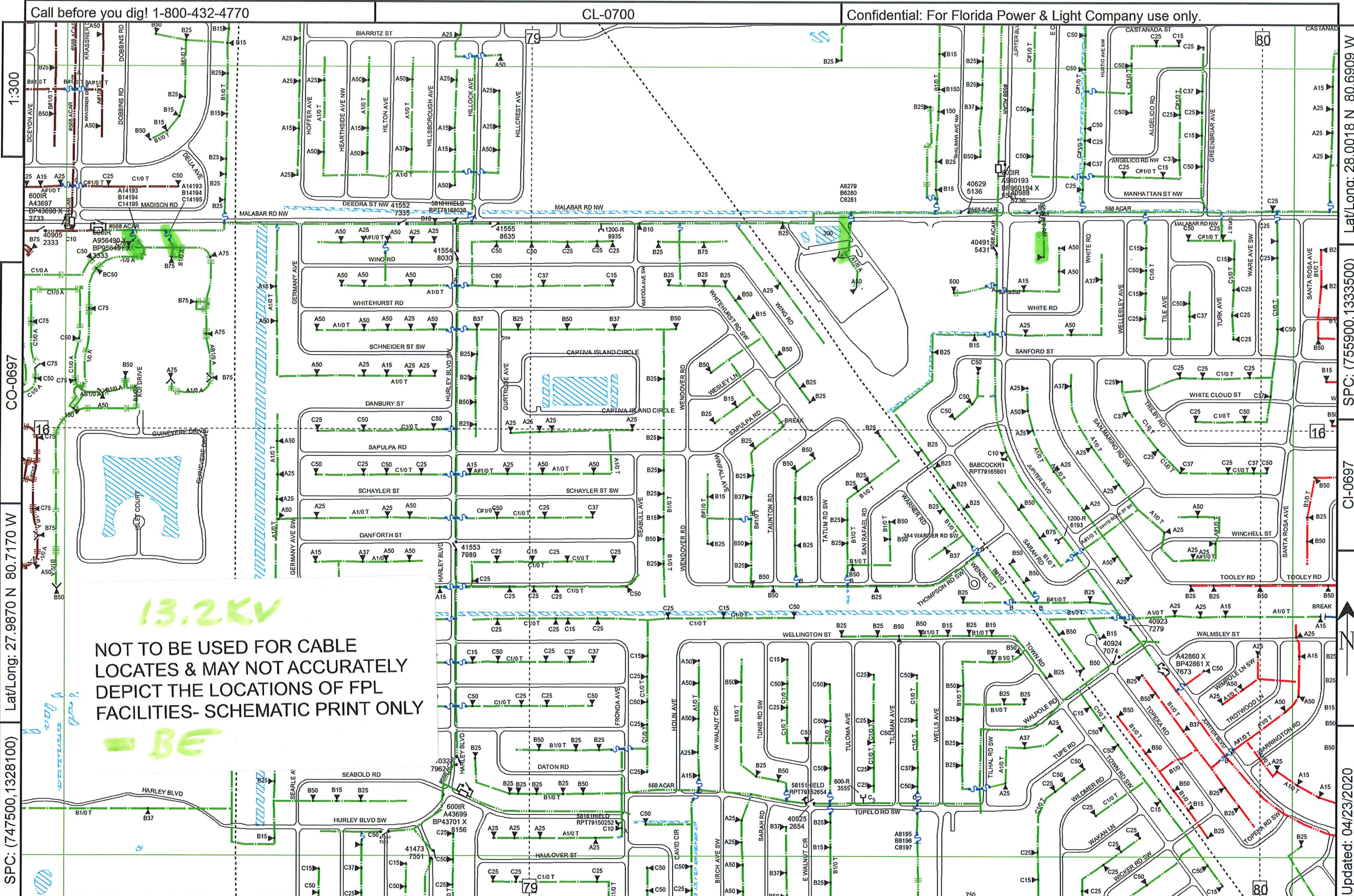
Primary Map: CO-0697



Call before you dig! 1-800-432-4770

CL-0700

Confidential: For Florida Power & Light Company use only.



**13.2KV**

NOT TO BE USED FOR CABLE  
LOCATES & MAY NOT ACCURATELY  
DEPICT THE LOCATIONS OF FPL  
FACILITIES- SCHEMATIC PRINT ONLY

**BE**

1:300

CO-0697

Lat/Long: 27.9870 N 80.7170 W

SPC: (747500,1328100)

County: Brevard

Mgmt Area: Brevard

Svc Ctr: Melbourne

CL-0694

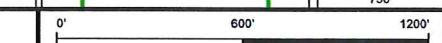
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CI-0697

Updated: 04/23/2020

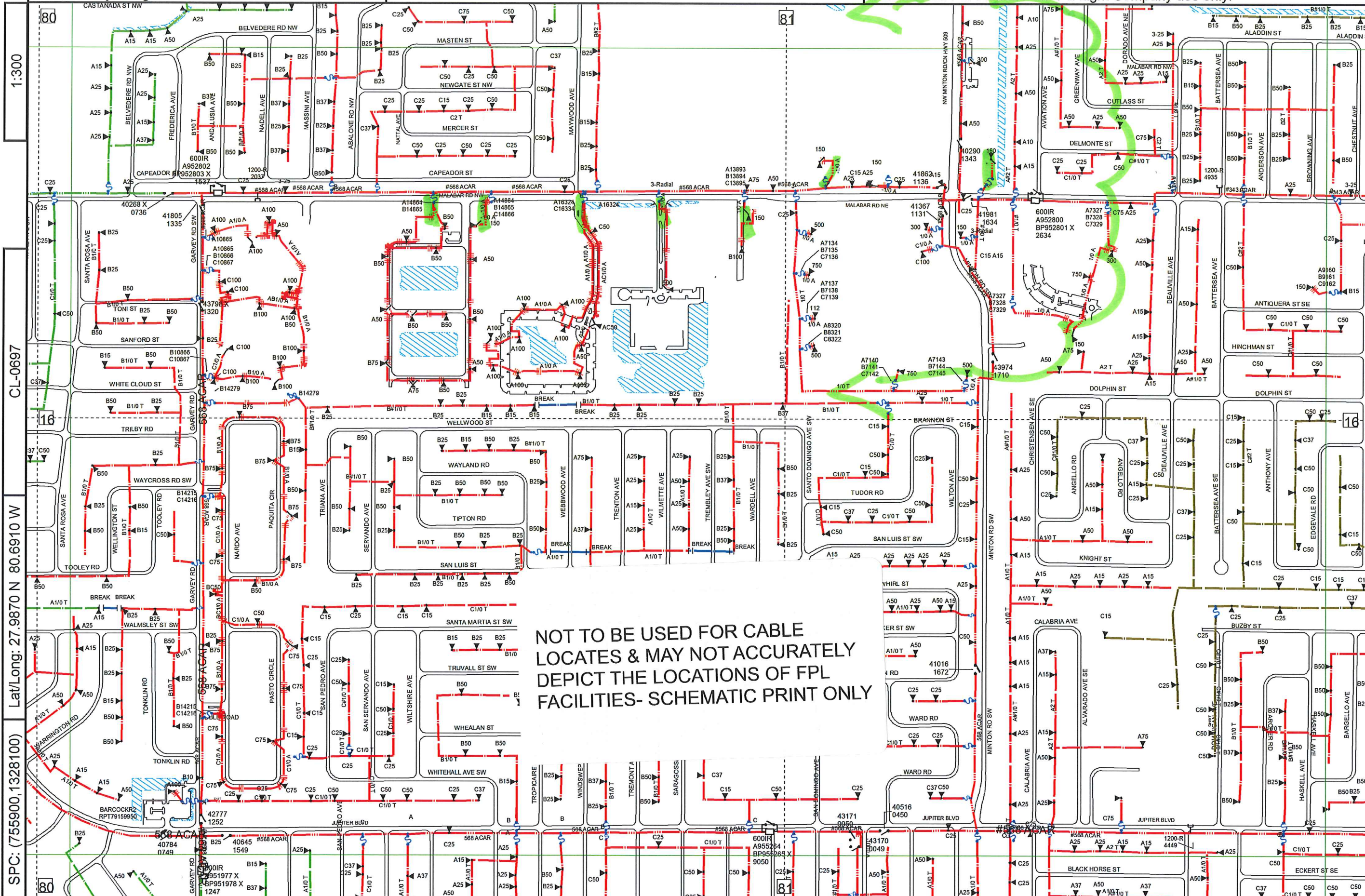




Call before you dig! 1-800-432-4770

CI-0700

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NOT TO BE USED FOR CABLE  
LOCATES & MAY NOT ACCURATELY  
DEPICT THE LOCATIONS OF FPL  
FACILITIES- SCHEMATIC PRINT ONLY

1:300

CL-0697

Lat/Long: 27.9870 N 80.6910 W

SPC: (755900,1328100)

County: Brevard

Mgmt Area: Brevard

Svc Ctr: Melbourne

CI-0694

Primary Map: CI-0697

Lat/Long: 28.0018 N 80.6649 W

SPC: (764300,1333500)

CF-0697

Updated: 04/18/2020



INACCESSIBLE  13KV  FUTURE 23KV  23KV  SALT SPRAY



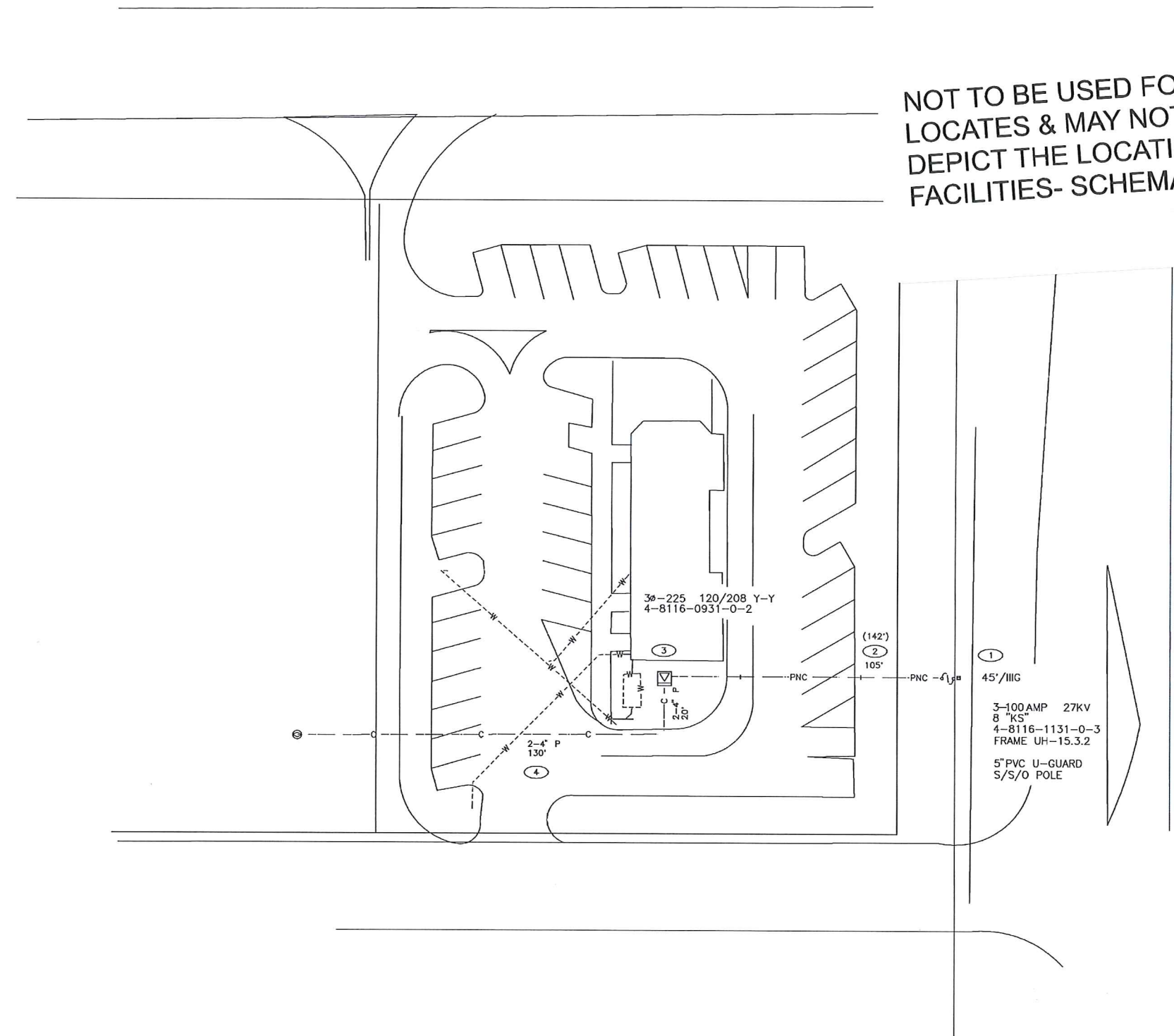
NOT TO BE USED FOR CABLE  
LOCATES & MAY NOT ACCURATELY  
DEPICT THE LOCATIONS OF FPL  
FACILITIES- SCHEMATIC PRINT ONLY

JOB  
SITE

LOCATION

CONSTRUCTION NOTES  
RWO # 8865-7-228

- 1 - JOB SHOULD CONFORM TO APPLICABLE STANDARDS AS DEFINED IN FPL DISTRIBUTION CONSTRUCTION STANDARDS.
- 2 - FOREMAN AS BUILT REQUIRED-FOREMAN WILL SHOW LOCATION AND EQUIPMENT CHANGES ON AS-BUILT CREW PRINTS.
- 3 - LOCATIONS OF OTHER UNDERGROUND UTILITIES WERE OBTAINED FROM BEST SOURCE AVAILABLE BUT MAY NOT BE EXACTLY AS SHOWN-USE CAUTION. LOCATE ALL FOREIGN UTILITIES BEFORE DIGGING.
- 4 - PRIMARY CABLE=CC 3 #1/OA 25KV XPE JKTD IN 4" PVC (UNLESS OTHERWISE NOTED) WITH 36" MIN. COVER.
- 5 - CUSTOMER IS TO TRENCH, INSTALL CONDUIT AND BACKFILL.
- 6 - ( ) DENOTES DISTANCE FROM POLE TO PAD OR FROM PAD TO PAD (INCLUDES 30 FEET AT RISER POLE AND 7 FEET AT EACH PAD MOUNTED TRANSFORMER).



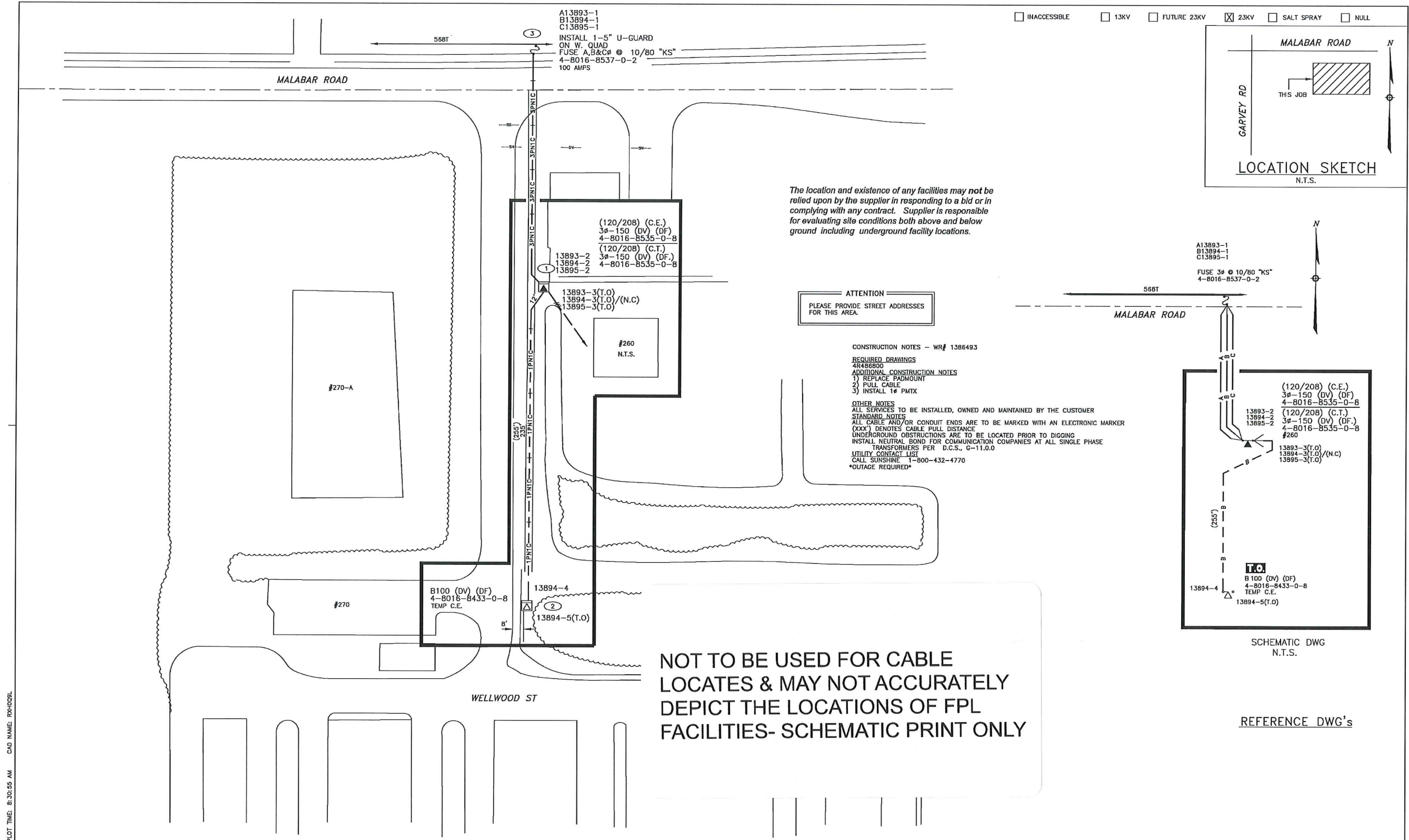
CAD NAME:  
PLOT TIME:  
PLOT DATE:

COORDINATE WITH 8411-1-228

0 20' 30' 40'		SCALE	
DESIGNED BY	J. WALKER	PVC-PB1 McDONALDS	
DRAWN BY	WAGNER	MINTON RD SOUTH & MALABAR RD	
CHECKED BY	JW	MAP NO.	P48015
CORRECTED BY	WW	DATE	11/10/93
APPROVED BY	MV	DWG NO.	<b>4R452800</b>
		WORK ORDER NO.	8865 ER NO 07 LOCN CODE 228

AS-BUILT CREW PRINT				ALL REQUIRED GROUND RODS HAVE BEEN SHOWN & VERIFIED TO ME WITH FPL STANDARDS. VALUES ARE SHOWN AT ALL LOCATIONS.				JOB CERTIFIED COMPLETED AS SHOWN ON THIS AS-BUILT PRINT. MATERIAL QUANTITIES SHOWN ON BOM.				AS-BUILT COPY			
FOREMAN'S SIGNATURE		DATE		FOREMAN'S SIGNATURE		DATE		SUPERVISOR'S SIGNATURE		DATE		REVISES		CERT. DATE	
Estement?	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Survey/Stake?	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	Work with SMO?	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Trench Feet	105'	Duct Bank Feet		CITY	COUNTY RD	COUNTY AIR	STATE RD	FAA	
Tree Work?	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	Designer/Stake?	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	CT/Special Mtg?	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	WAG	RR ANG	DR. DIST.	TRANS.						
DOBS	ISN-02	Map Posting?	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Posted by		Telephone Request?	YES <input type="checkbox"/> NO <input type="checkbox"/>	CATV Request?	YES <input type="checkbox"/> NO <input type="checkbox"/>						





PLOT DATE: 6/10/2005  
 PLOT TIME: 8:30:55 AM  
 CAD NAME: RRR009L

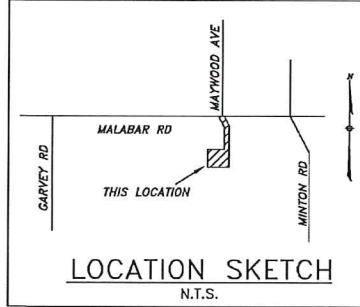
TWP: 22 R. 36 SEC. 1 QTR.

AS-BUILT COPY		AS-BUILT CREW PRINT		Easement?	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Survey/Stake?	YES <input type="checkbox"/> NO <input type="checkbox"/>	Work with SMO?	YES <input type="checkbox"/> NO <input type="checkbox"/>		DESIGNED BY	C. McCASKEY	W/K BY <b>EXPANSION OF ADDITIONAL STORAGE</b> MALABAR RD & WELLWOOD ST PALM BAY/BREVARD COUNTY, FL DWG NO. 4R486800 WR: 1386493 IWR: 0841-40-216
1386493	0	05/25/05	PULL PRIMARY CABLE INSTALL B# 100KVA TX @ MALABAR RD	Tree Work?	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	Designer/Stake?	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	CT/Special Mtr?	YES <input type="checkbox"/> NO <input type="checkbox"/>		DRAWN BY	R. HEDRINGTON	
ASBUILT	AUTH NO.	NO.	DATE	Supervisor's Signature	Date	Map Posting?	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Trench Feet	Duct Bank Feet	MAP NO.	P47916	SCALE	0 15 30 60 FEET
				Job CERTIFIED COMPLETED as shown on this AS-BUILT print. Material changes shown on ROS.	Date	City	DR. DIST.	COUNTY AIR	STATE RD	FAA			
				All regulated ground rods have been driven & verified to be within FPL standards. Values are shown at all locations.	Date	WMD	RR XING	COUNTY RD.	TRANS.				
				Foreman's Signature	Date	Posted by	Telephone Request?	YES <input type="checkbox"/> NO <input type="checkbox"/>	CATV Request?	YES <input type="checkbox"/> NO <input type="checkbox"/>			



INACCESSIBLE  13KV  FUTURE 23KV  23KV  SALT SPRAY  NULL

**ATTENTION**  
PLEASE PROVIDE STREET ADDRESSES FOR THIS AREA.



A16324-22  
1-2" U-GUARD  
ON W. QUAD  
FUSE A @ 80 "K"  
4-8016-6337-0-2

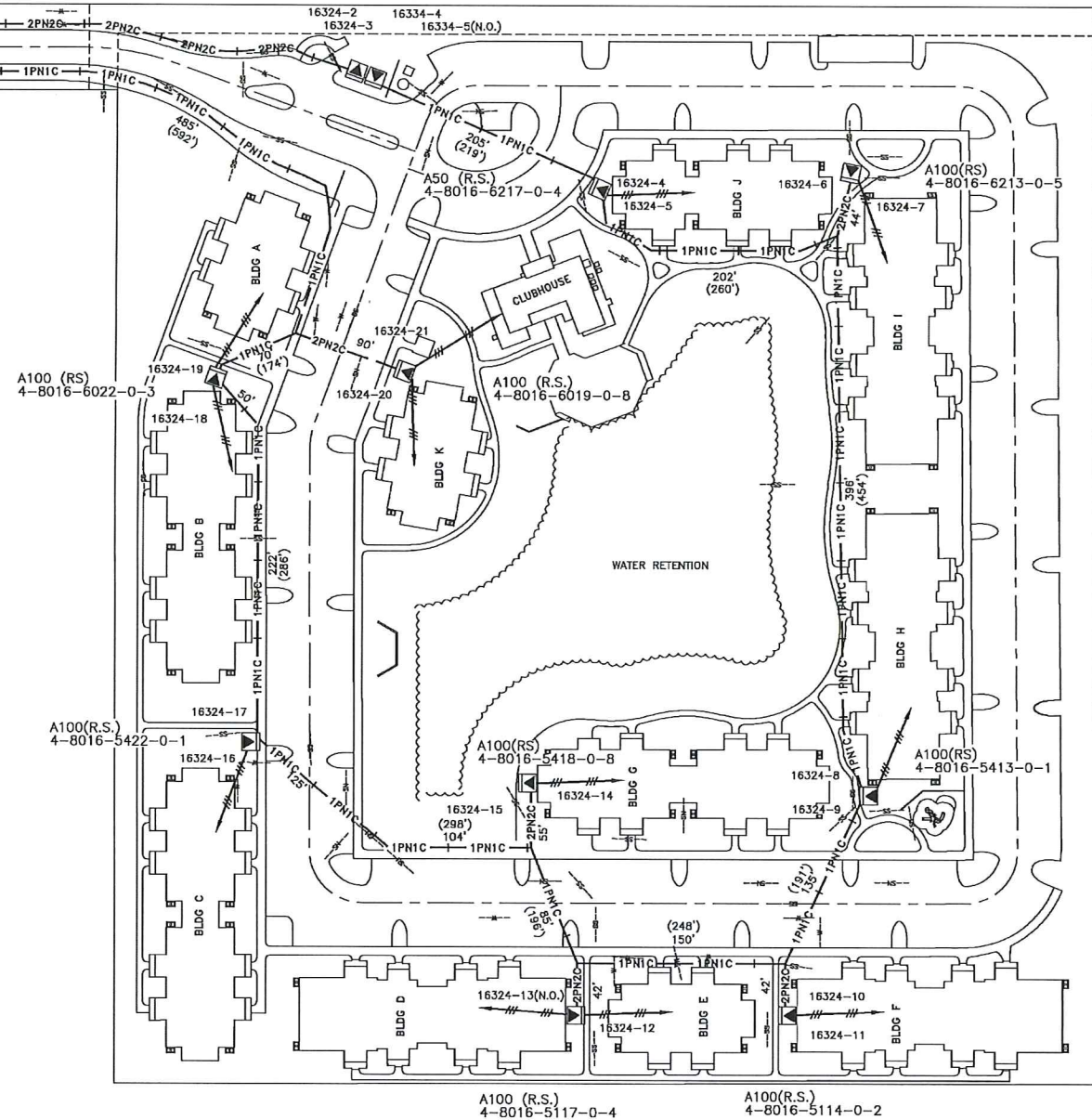
A50 (LS) C50 (RS)(120/240V)  
4-8016-6320-0-5  
OPEN DELTA

A16324-1  
C16334-1  
1-5" U-GUARD  
ON W. QUAD  
FUSE A&C @ 80 "K"  
4-8016-6237-0-7

**"AS BUILT" RECORD**  
WORK ORDERS WITH A DATE IN THE AS BUILT COLUMN ARE BUILT EFFECTIVE THAT DATE. FIELD ENGINEERED CHANGES HAVE BEEN MADE TO THE TRACING BUT PROPOSED SYMBOLS HAVE NOT BEEN CHANGED TO EXISTING AND NOTE AND LOC. NUMBERS HAVE NOT BEEN REMOVED.

The location and existence of any facilities may not be relied upon by the supplier in responding to a bid or in complying with any contract. Supplier is responsible for evaluating site conditions both above and below ground including underground facility locations.

CONSTRUCTION NOTES - WR# 3193240  
REQUIRED DRAWINGS  
45980401 4R980400  
TRENCH NOTES  
MAINTAIN A MINIMUM OF 12" SEPARATION FROM ALL OTHER UTILITIES  
CUSTOMER INSTALLED CONDUIT  
CUSTOMER INSTALLED ALL CONDUIT CABLE  
2PN2C IS 2CC #1/0A 25KV-XLPE IN 2-2" PVC WITH 36" MIN COVER  
OTHER NOTES  
ALL SERVICES TO BE INSTALLED, OWNED AND MAINTAINED BY THE CUSTOMER  
STANDARD NOTES  
ALL TRANSFORMERS ARE (120/240V) UNLESS OTHERWISE NOTED  
ALL CABLE AND/OR CONDUIT ENDS ARE TO BE MARKED WITH AN ELECTRONIC MARKER  
(XXX) DENOTES CABLE PULL DISTANCE  
UNDERGROUND OBSTRUCTIONS ARE TO BE LOCATED PRIOR TO DIGGING  
INSTALL NEUTRAL BOND FOR COMMUNICATION COMPANIES AT ALL SINGLE PHASE TRANSFORMERS PER D.C.S., G-11.0.0  
UTILITY CONTACT LIST  
CALL SUNSHINE 1-800-432-4770



**NOT TO BE USED FOR CABLE LOCATES & MAY NOT ACCURATELY DEPICT THE LOCATIONS OF FPL FACILITIES- SCHEMATIC PRINT ONLY**

REFERENCE DWG's  
45980401

PLOT DATE: 5/22/2009 PLOT TIME: 10:25:27 AM CAD NAME: RCA

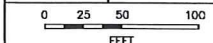
TWNP:285, RNC:36E, SEC:01, QTR:

04/14/09	3193240	0	07/28/08	PULL PRI CBL & INST (10) SINGLE PHASE PMTX'S & (1) OPEN DELTA FOR SVC TO MALABAR COVE APARTMENTS
ASBUILT	AUTH NO.	NO.	DATE	REVISION

AS-BUILT COPY	AS-BUILT CREW PRINT	Easement?	YES <input type="checkbox"/> NO <input type="checkbox"/>	Survey/Stake?	YES <input type="checkbox"/> NO <input type="checkbox"/>	Work with SMO?	YES <input type="checkbox"/> NO <input type="checkbox"/>
DATE	Cert. Date	Tree Work?	YES <input type="checkbox"/> NO <input type="checkbox"/>	Designer/Stake?	YES <input type="checkbox"/> NO <input type="checkbox"/>	CT/Special Mtr?	YES <input type="checkbox"/> NO <input type="checkbox"/>
Job CERTIFIED COMPLETED as shown on this AS-BUILT print. Material changes shown on ROS.		Map Posting?	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Trench Feet		Duct Bank Feet	
Supervisor's Signature							
Foreman's Signature							
All required ground rods have been driven & verified to be within FPL standards. Values are shown at all locations.		Posted by		Telephone Request?	YES <input type="checkbox"/> NO <input type="checkbox"/>	CATV Request?	YES <input type="checkbox"/> NO <input type="checkbox"/>

DESIGNED BY	J. HARNER
DRAWN BY	B. WARREN/S. DIAZ
DATE	02/19/09
MAP NO.	CI-0697

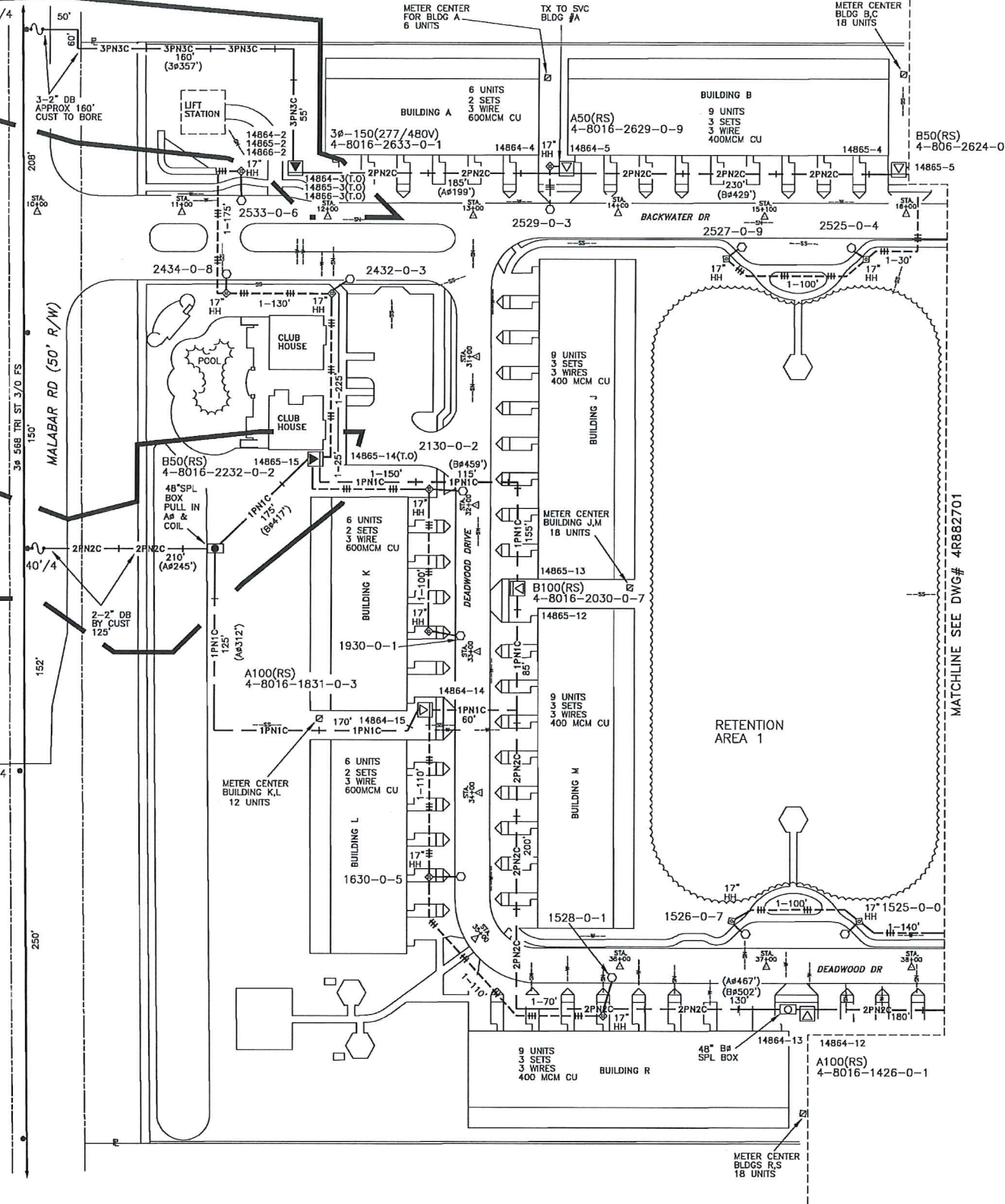
W/ BY  
**MALABAR COVE APARTMENTS**  
MALABAR RD & MAYWOOD AVE  
PALM BAY/BREVARD COUNTY, FL  
DWG NO. **4R980400**  
WR:3193240 IWR:2112 -37-216



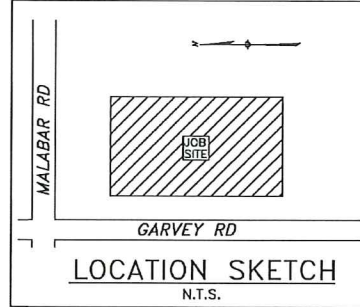


A14864-1  
B14865-1 SOURCE #1  
C14866-1  
1-5" U-GUARD  
ON N. QUAD  
FUSE 3# @ 80 "KS"  
4-8016-2836-0-4

A14864-16  
B14865-16 SOURCE #2  
INSTALL 1-5" U-GUARD  
ON NW. QUAD  
FUSE A,B @ 80 "KS"  
4-8016-2136-0-6



INACCESSIBLE  13KV  FUTURE 23KV  23KV  SALT SPRAY  NULL



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ATTENTION  
PLEASE PROVIDE STREET ADDRESSES FOR THIS AREA.

CONST  
REQUIR  
48827  
458827  
STANDA  
ALL CA  
(XXX)  
UNDERC  
INSTALL  
T  
UTILITY  
CALL SI

**NOT TO BE USED FOR CABLE LOCATES & MAY NOT ACCURATELY DEPICT THE LOCATIONS OF FPL FACILITIES- SCHEMATIC PRINT ONLY**

"AS BUILT" RECORD  
WORK ORDERS WITH A DATE IN THE AS BUILT COLUMN ARE BUILT EFFECTIVE THAT DATE. FIELD ENGINEER CHANGES HAVE BEEN MADE TO THE TRACING BUT PROPOSED SYMBOLS HAVE NOT BEEN CHANGED TO EXISTING AND NOTE AND LOC. NUMBERS HAVE NOT BEEN REMOVED.

REFERENCE DWG'S

4R882701  
4S882702

PLOT DATE: 6/21/2007 PLOT TIME: 10:37:31 AM CAD NAME: PXM

3/28/07	2532208	1	01/19/07	(AS-BUILT) INSTALL 48" SPLICE BOX TO SVC THE FALLS AT PALM BAY
	2212879	0	08/05/06	PULL PRI CBL, INSTALL TXS & 26 ST LIGHTS TO PROVIDE SVC TO THE FALLS OF PALM BAY
ASBUILT	AUTH NO.	NO.	DATE	REVISION

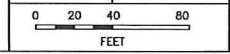
AS-BUILT COPY	AS-BUILT CREW PRINT
DATE	DATE
Signature	Signature
Job CERTIFIED COMPLETED as shown on this AS-BUILT print. Material changes shown on ROS.	
All required ground rods have been driven & verified to be within FPL standards. Values are shown at all locations.	
Signature	Signature
DATE	DATE

Easement?	YES <input type="checkbox"/> NO <input type="checkbox"/>	Survey/Stake?	YES <input type="checkbox"/> NO <input type="checkbox"/>	Work with SMO?	YES <input type="checkbox"/> NO <input type="checkbox"/>
Tree Work?	YES <input type="checkbox"/> NO <input type="checkbox"/>	Designer/Stake?	YES <input type="checkbox"/> NO <input type="checkbox"/>	CT/Special Mt-?	YES <input type="checkbox"/> NO <input type="checkbox"/>
Map Posting?	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Trench Feet		Duct Bank Feet	
Posted by		Telephone Request?	YES <input type="checkbox"/> NO <input type="checkbox"/>	CATV Request?	YES <input type="checkbox"/> NO <input type="checkbox"/>
CITY	DR. DIST.	COUNTY	AIR	STATE	RD
WMD	RR KING	COUNTY RD.	TRANS.	FAA	



DESIGNED BY	R. BENOIT
DRAWN BY	PH. DUBOIS
DATE	01/19/07
MAP NO.	CI-0697

W/A BY	
THE FALLS AT PALM BAY	
MALABAR ROAD & GARVEY ROAD PALM BAY / BREVARD COUNTY, FL	
DWG NO.	4R882700
WR:	2532208 IWR: 7055-33-216





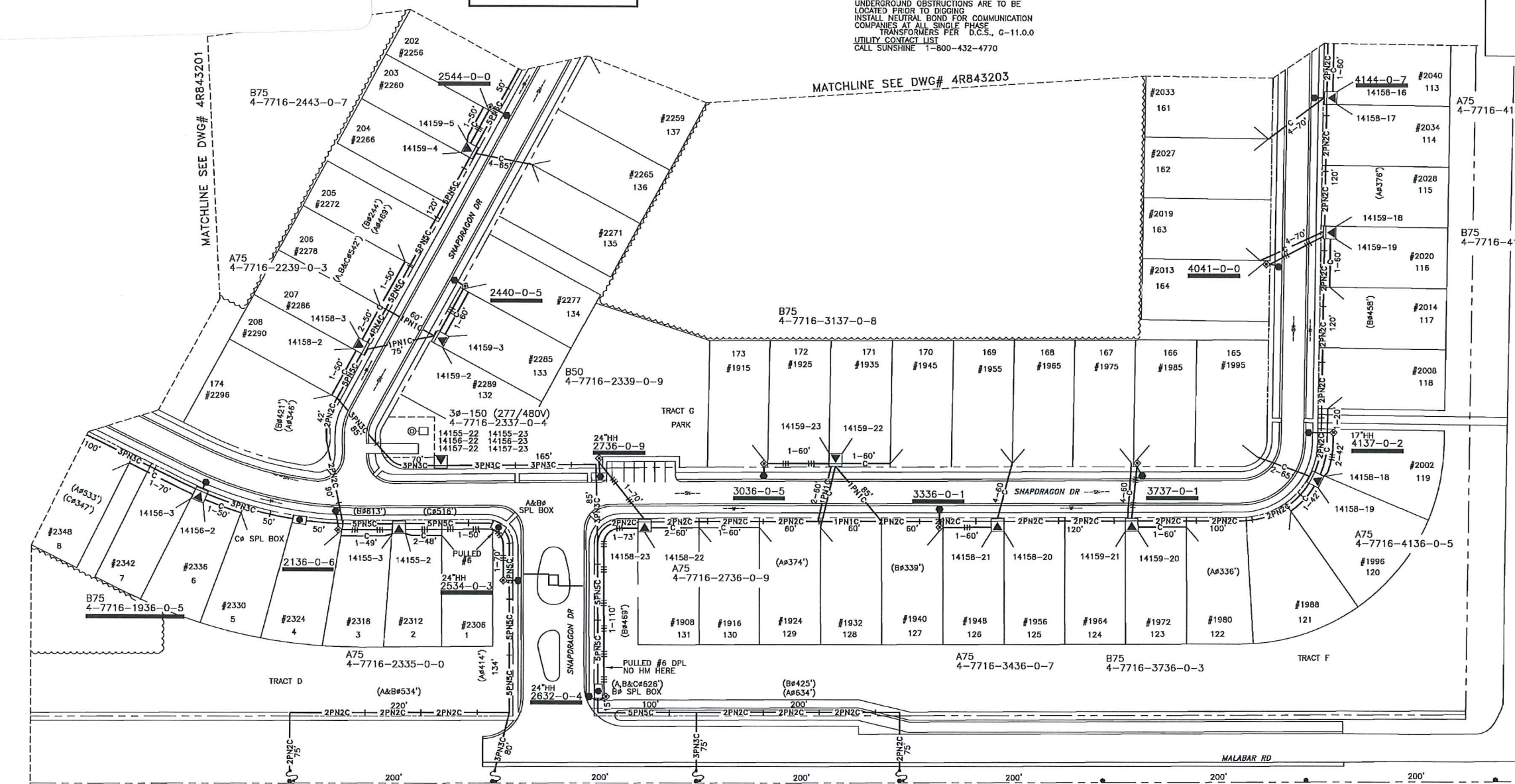
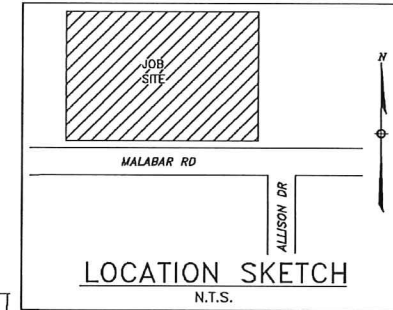
NOT TO BE USED FOR CABLE LOCATES & MAY NOT ACCURATELY DEPICT THE LOCATIONS OF FPL FACILITIES- SCHEMATIC PRINT ONLY

"AS BUILT" RECORD  
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CONSTRUCTION NOTES - WR# 2489037

REQUIRED DRAWINGS  
 4R843200  
 4R843201  
 4R843202  
 4R843203  
 CABLE  
 STREET LIGHT IS #6 DPX IN 1-2" PVC WITH 12" MIN COVER  
 STANDARD NOTES  
 1. 5" MD EA LOC  
 2. 90 CONN FOR FUSING  
 3. 90 CONN TO SW HEARTS  
 4. 90 CONN SECONDARY HOT  
 5. 90 CONN SECONDARY COLD  
 6. INSTALL 20 SW HEART  
 STANDARD NOTES  
 ALL CABLE AND/OR CONDUIT ENDS ARE TO BE MARKED WITH AN ELECTRONIC MARKER (XX) DENOTES CABLE PULL DISTANCE UNDERGROUND OBSTRUCTIONS ARE TO BE LOCATED PRIOR TO DIGGING  
 INSTALL NEUTRAL BOND FOR COMMUNICATION COMPANIES AT ALL SINGLE PHASE TRANSFORMERS PER D.C.S., G-11.0.0  
 UTILITY CONTACT LIST  
 CALL SUNSHINE 1-800-432-4770

INACCESSIBLE  13KV  FUTURE 23KV  23KV  SALT SPRAY  NULL



PLOT DATE: 12/20/2008 PLOT TIME: 12:48:25 PM CAD NAME: MKR

A14158-1  
 B14159-1  
 1-5" U-GUARD  
 ON E. QUAD  
 FUSE A,B & C @ 80 "K"  
 4-7716-2130-0-2

A14155-1  
 B14156-1  
 C14157-1  
 1-5" U-GUARD  
 ON E. QUAD  
 FUSE A,B & C @ 80 "K"  
 4-7716-2430-0-9

A14155-24  
 B14156-24  
 C14157-24  
 1-5" U-GUARD  
 ON E. QUAD  
 FUSE A,B & C @ 80 "K"  
 4-7716-2830-0-1

A14158-24  
 B14159-24  
 C14157-24  
 1-5" U-GUARD  
 ON E. QUAD  
 FUSE A,B @ 80 "K"  
 4-7716-3331-0-5

The location and existence of any facilities may not be relied upon by the supplier in responding to a bid or in complying with any contract. Supplier is responsible for evaluating site conditions both above and below ground including underground facility locations.

REFERENCE DWG's

4R843201  
 4R843203  
 4S843204

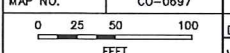
ASSBUILT	AUTH NO.	NO.	DATE	REVISION
	2489037	4	03/28/07	LP.C REMOVE ST LITS ON SNAPDRAGON DR @ PARKSIDE WEST
	2489037	3	02/05/07	(AS-BUILT) INSTALL STREET LIGHTS, PULL SECONDARY CABLE TO SVC PARKSIDE WEST
	1733573	2	02/02/07	ADD ADDRESSES & STREET NAMES TO SVC PARKSIDE WEST
	1733573	1	01/03/07	UPDATE TRENCH DISTANCES PER DESIGNER MARK UPS
	1733573	0	09/06/05	INSTALL UG FACILITIES TO SVC PARKSIDE WEST LOTS 1-240 & INSTALL 45-6300' TRADITIONAL ST LITS ON 20' FG POLES

AS-BUILT COPY	AS-BUILT CREW PRINT
Date: _____ Foreman's Signature: _____ Job CERTIFIED COMPLETED as shown on this AS-BUILT print. Material changes shown on ROS.	Date: _____ Foreman's Signature: _____ All required ground rods have been driven & verified to be within FPL standards. Values are shown at all locations.

Esserment?	YES <input type="checkbox"/> NO <input type="checkbox"/>	Survey/Stake?	YES <input type="checkbox"/> NO <input type="checkbox"/>	Work with SMO?	YES <input type="checkbox"/> NO <input type="checkbox"/>
Tree Work?	YES <input type="checkbox"/> NO <input type="checkbox"/>	Designer/Stake?	YES <input type="checkbox"/> NO <input type="checkbox"/>	CT/Special Mtr?	YES <input type="checkbox"/> NO <input type="checkbox"/>
Map Posting?	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Trench Feet	Duct Bank Feet		
Posted by	_____	Telephone Request?	YES <input type="checkbox"/> NO <input type="checkbox"/>	CATV Request?	YES <input type="checkbox"/> NO <input type="checkbox"/>

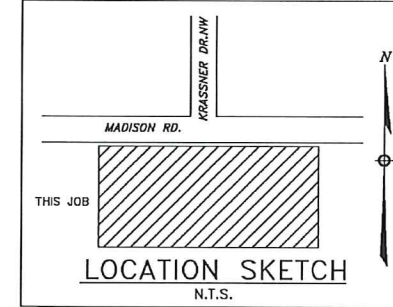
CITY	DR. DIST.	COUNTY AIR	STATE RD	FAA
WMD	RR XING	COUNTY RD.	TRANS.	

DESIGNED BY	K. KIRKLAND	W/K BY <b>PARKSIDE WEST</b> N/O MALABAR RD & W/O ALLISON DR PALM BAY/BREVARD CNTY, FL
DRAWN BY	PH. DUBOIS	
DATE	03/28/07	DWG NO.
MAP NO.	CO-0697	WR: 2489037 IWR: 5715 -33-216





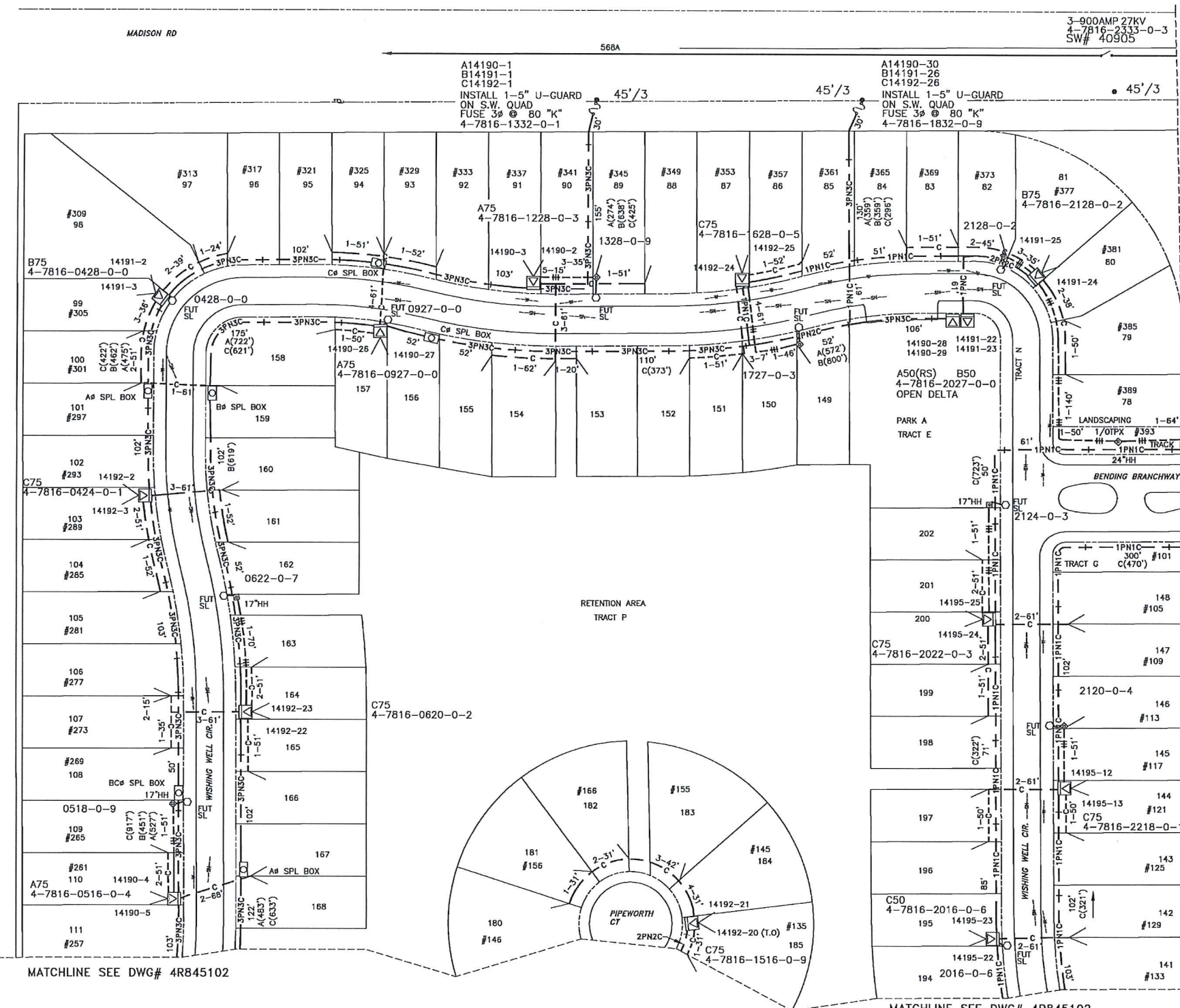
INACCESSIBLE  13KV  FUTURE 23KV  23KV  SALT SPRAY  NULL



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CONSTRUCTION NOTES - WR# 1749878

- REQUIRED DRAWINGS**
- 4R845100
  - 4R845101
  - 4R845102
  - 4R845103
  - 4S845106
- TRENCH NOTES**
- EASEMENT: 10 FEET FRONT 5 FEET SIDE
  - MAINTAIN A MINIMUM OF 12" SEPARATION FROM ALL OTHER UTILITIES
  - EXTEND PVC 10 FT FROM TX FOR FUTURE SERVICES
  - CUSTOMER INSTALLED CONDUIT
  - CUSTOMER INSTALLED CONDUIT AT ROAD CROSSINGS
  - CUSTOMER INSTALLED BACKBONE CONDUIT
- CABLE**
- 3PN3C IS 3CC #1/0A 25KV-XPE IN 3-2" PVC WITH 36" MIN COVER
  - SECONDARY IS #4/0 TPX HM-HD IN 1-2" PVC WITH 24" MIN COVER (UNLESS NOTED)
  - SERVICE IS #1/0 TPX HM-HD IN 1-2" PVC WITH 24" MIN COVER (UNLESS NOTED)
  - STREET LIGHT IS #5 DPX IN 1-2" PVC WITH 24" MIN COVER
- OTHER NOTES**
- ALL SERVICES TO BE INSTALLED, OWNED AND MAINTAINED BY THE CUSTOMER
- STREET LIGHTS**
- INSTALL 39 - 6300L ON 20' FIBERGLASS TRADITIONAL POLE
- STANDARD NOTES**
- ALL CABLE AND/OR CONDUIT ENDS ARE TO BE MARKED WITH AN ELECTRONIC MARKER
  - (XXX) DENOTES CABLE PULL DISTANCE
  - UNDERGROUND OBSTRUCTIONS ARE TO BE LOCATED PRIOR TO DIGGING
  - INSTALL NEUTRAL BOND FOR COMMUNICATION COMPANIES AT ALL SINGLE PHASE TRANSFORMERS PER D.C.S., G-11.0.0
  - ALL TRANSFORMERS ARE 24" (UNLESS NOTED)
  - ALL TRANSFORMERS ARE LOW STYLE (UNLESS NOTED)
  - UTILITY CONTACT LIST
  - CALL SUNSHINE 1-800-432-4770



MATCHLINE SEE DWG# 4R845101

PLEZ FOR

**NOT TO BE USED FOR CABLE LOCATES & MAY NOT ACCURATELY DEPICT THE LOCATIONS OF FPL FACILITIES- SCHEMATIC PRINT ONLY**

REFERENCE DWG'S

- 4R845101 4S845106
- 4R845102 4S845107

PLOT DATE: 5/4/2008 PLOT TIME: 7:43:05 AM CAD NAME: CRT

MATCHLINE SEE DWG# 4R845102

MATCHLINE SEE DWG# 4R845102

AS-BUILT COPY	AS-BUILT CREW PRINT	Easement?	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	Survey/Stake?	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	Work with SMO?	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
DATE	DATE	Tree Work?	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	Designer/Stake?	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	CT/Special Mtr?	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
Job CERTIFIED COMPLETED as shown on this AS-BUILT print. Material changes shown on ROS.		Map Posting?	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Trench Feet		Duct Bank Feet	
Supervisor's Signature _____ Date _____		CITY		DR. DIST.	COUNTY AIR	STATE RD	FAA
All required ground rods have been driven & verified to be within FPL standards. Values are shown at all locations.		WMD		RR KING	COUNTY RD.	TRANS.	
Foreman's Signature _____ Date _____		Posted by		Telephone Request?	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	CATV Request?	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>



LARGEST A/C TONS	7
HOME SQ. FT.	2800
PROJECT MGR	R. CUMMINS
DESIGNED BY	R. CUMMINS
DRAWN BY	PH. DUBOIS
DATE	04/19/08
MAP NO.	CL-0697

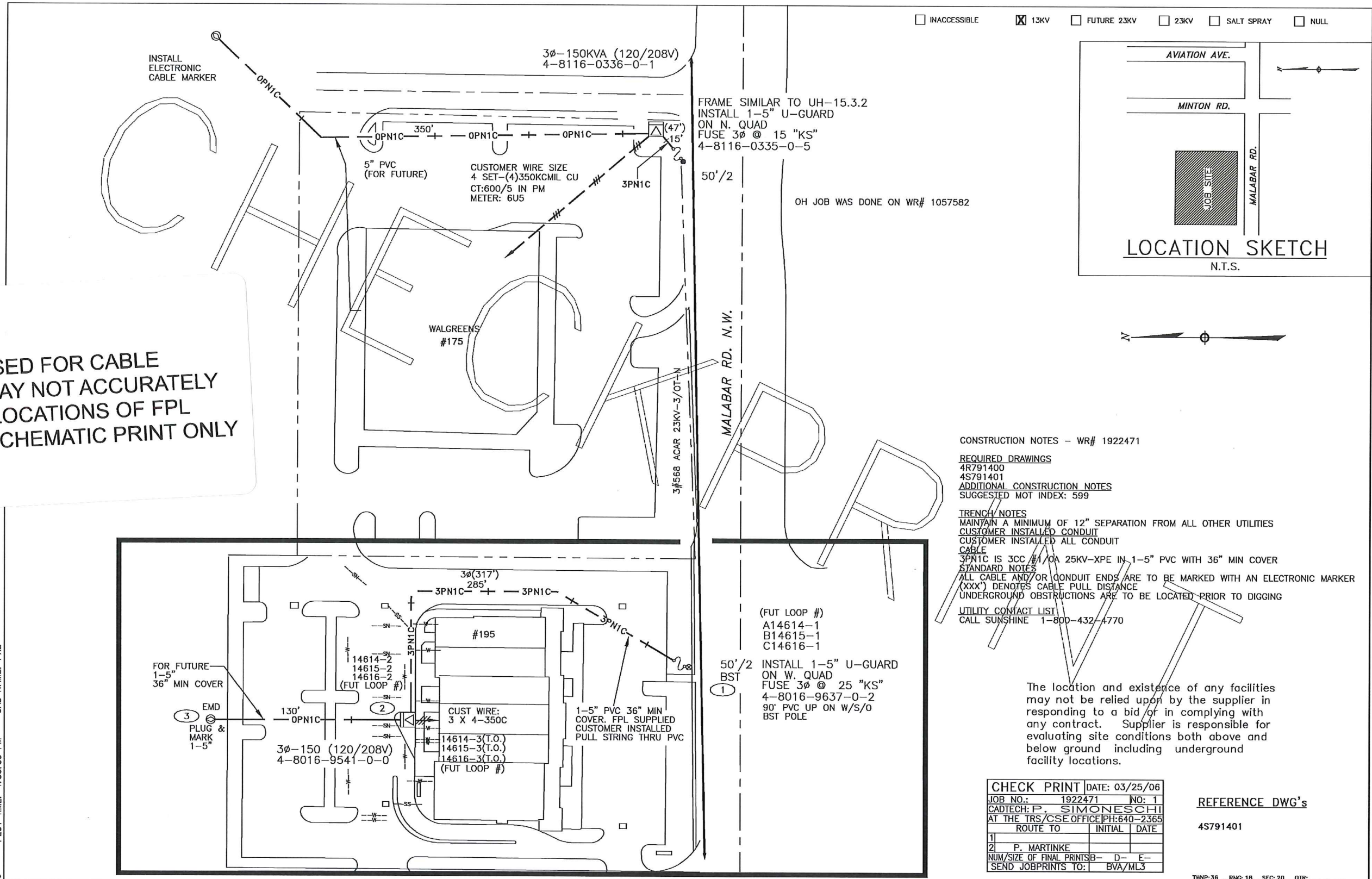
TWP: 28S. RNG: 36E. SEC: 03W. QTR: \_\_\_\_\_  
 W/K BY  
**BRENTWOOD LAKES**  
 PH 1  
 MALABAR RD. @ KRASSNER DR.  
 MELBOURNE/BREVARD CNTY., FL  
 DWG NO. **4R845100**  
 WR: 1749878 IWR: 1594-42-216

ASSULT	AUTH NO.	NO.	DATE	REVISION
	1749878	1	04/19/08	ADD ADDRESSES AND STREET NAMES
	1749878	0	09/29/05	PROVIDE SVC TO 202 LOTS PHASE 1 @ BRENTWOOD LAKES

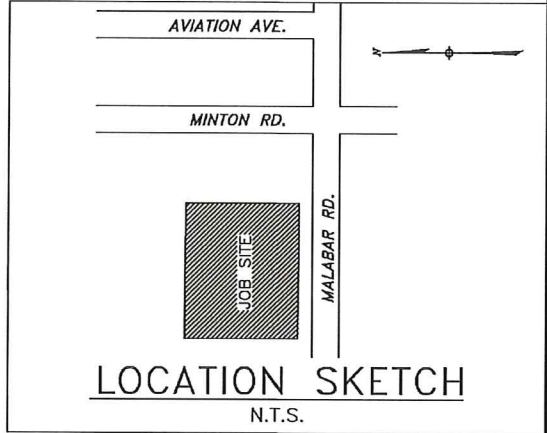








NOT TO BE USED FOR CABLE LOCATES & MAY NOT ACCURATELY DEPICT THE LOCATIONS OF FPL FACILITIES- SCHEMATIC PRINT ONLY



INACCESSIBLE  13KV  FUTURE 23KV  23KV  SALT SPRAY  NULL

FRAME SIMILAR TO UH-15.3.2  
INSTALL 1-5" U-GUARD ON N. QUAD  
FUSE 3φ @ 15 "KS"  
4-8116-0335-0-5

OH JOB WAS DONE ON WR# 1057582

CONSTRUCTION NOTES - WR# 1922471

REQUIRED DRAWINGS  
4R791400  
4S791401

ADDITIONAL CONSTRUCTION NOTES  
SUGGESTED NOT INDEX: 599

TRENCH NOTES

MAINTAIN A MINIMUM OF 12" SEPARATION FROM ALL OTHER UTILITIES  
CUSTOMER INSTALLED CONDUIT  
CUSTOMER INSTALLED ALL CONDUIT CABLE  
3PN1C IS 3CC #1/OA 25KV-XPE IN 1-5" PVC WITH 36" MIN COVER

STANDARD NOTES

ALL CABLE AND/OR CONDUIT ENDS ARE TO BE MARKED WITH AN ELECTRONIC MARKER (XXX) DENOTES CABLE PULL DISTANCE  
UNDERGROUND OBSTRUCTIONS ARE TO BE LOCATED PRIOR TO DIGGING

UTILITY CONTACT LIST

CALL SUNSHINE 1-800-432-4770

The location and existence of any facilities may not be relied upon by the supplier in responding to a bid or in complying with any contract. Supplier is responsible for evaluating site conditions both above and below ground including underground facility locations.

CHECK PRINT		DATE: 03/25/06
JOB NO.:	1922471	NO: 1
CADTECH:	P. SIMONESCHI	
AT THE TRS/CSE OFFICE PH: 640-2365		
ROUTE TO	INITIAL	DATE
1		
2	P. MARTINKE	
NUM/SIZE OF FINAL PRINTS	B-	D- E-
SEND JOBPRIANTS TO:	BVA/ML3	

REFERENCE DWG'S  
4S791401

PLOT DATE: 6/7/2006 PLOT TIME: 4:35:59 PM CAD NAME: PXS

ASBUILT	AUTH NO.	NO.	DATE	REVISION
	1922471	2	03/25/06	PULL PRI CABLE & INST 150KVA PMTX TO PROV SVC TO 195 MALABAR ROAD
	1057568	1	08/17/04	I.P.C.-RELOCATE 3φ TX & CONDUITS
	1057568	0	07/16/04	INSTALL THREE PHASE RADIAL PADMOUNTED TX 150KVA 102/208V

AS-BUILT COPY		AS-BUILT CREW PRINT	
Initials	Dist. Date	Foreman's Signature	Date
Job CERTIFIED COMPLETED as shown on this AS-BUILT print. Material changes shown on ROS.			
Supervisor's Signature		Date	
All required ground rods have been driven & verified to be within FPL standards. Values are shown at all locations.			
Foreman's Signature		Date	

Easement?	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Survey/Stake?	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	Work with SMO?	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
Tree Work?	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	Designer/Stake?	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	CT/Special Mtr?	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
Map Posting?	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Trench Feet	Duct Bank Feet		
Posted by		CITY X	DR. DIST.	COUNTY AIR	STATE RD
		WMD	RR XING	COUNTY RD.	TRANSM.
		Telephone Request?	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	CATV Request?	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>



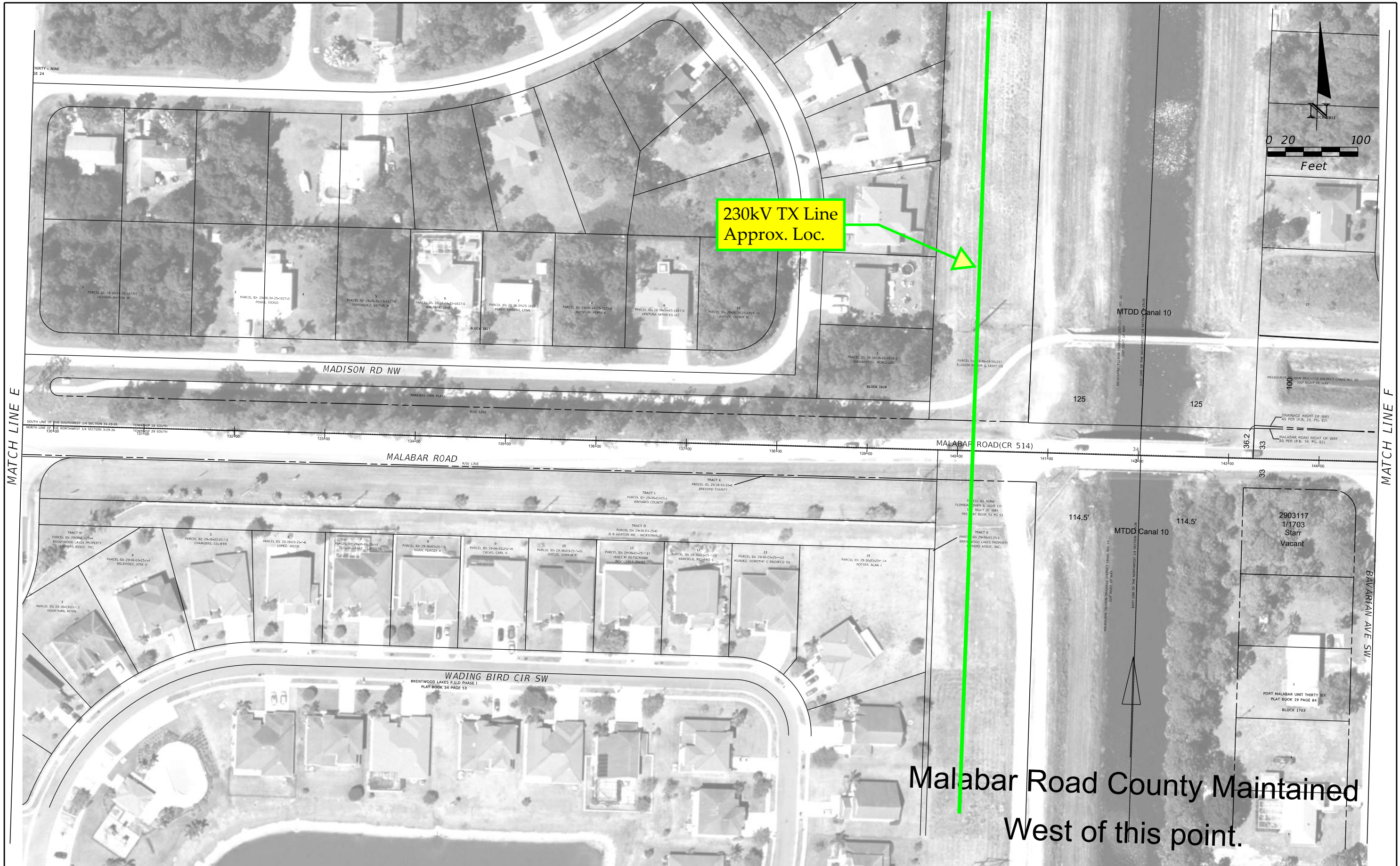
DESIGNED BY	P. MARTINKE
DRAWN BY	P. SIMONESCHI
DATE	03/25/06
MAP NO.	P48116

TWP: 36 RING: 18 SEC: 20 QTR: \_\_\_\_\_  
W/A BY  
**WALGREENS & 195 MALABAR RD.**  
V/O MALABAR RD & MILTON RD  
PALM BAY/BREVARD COUNTY, FL  
**4R791400**  
DWS NO.  
WR: 1922471 IWR: 1600-30-216



# **Florida Power and Light Transmission**





230kV TX Line  
Approx. Loc.

Malabar Road County Maintained  
West of this point.

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			MALABAR ROAD PD&E STUDY PLANSHEET	SHEET NO.  6
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					BREVARD			





230kV TX Line  
Approx. Loc.

Unit 26

Canal 20

Canal 20

MALABAR ROAD

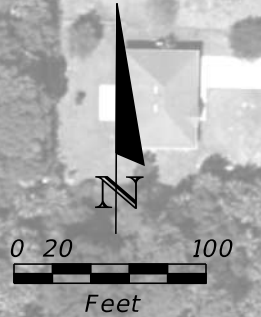
WING RD SW

WING RD SW

WATOQA AVE SW

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	MALABAR ROAD PD&E STUDY PLANSHEET		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				
							ROAD NO.
					BREVARD		





MATCH LINE H

MATCH LINE I

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			MALABAR ROAD PD&E STUDY PLANSHEET	SHEET NO.  9
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					BREVARD			



## **Hotwire Communications**

# **Melbourn Tillman Drainage Water Control District Permit Issued**



# PERMIT MT 49-21

Incorporating PA 210617-10

## MELBOURNE-TILLMAN WATER CONTROL DISTRICT

### ISSUED TO:

5990 Minton Road, Palm Bay, Florida 32907  
321.723.7233 Fax 321.725.5933  
mtwcd@MelbourneTillman.org

Name: HotWire Communications, LTD

Project Name: HotWire subaqueous crossing of MTWCD canal c-10 at CR514

ATTN: Ederson Miranda

Address: 3 East Bala Plaza, Suite 700

City, State, Zip: Bala Cynwyd, PA 19004-3481

Telephone: 954-536-4889

Fax:

E-Mail: emiranda@hotwirecommunications.com

ISSUE DATE: 7/7/21

PERMIT NOT VALID FOR CONSTRUCTION . Two (2) YEARS AFTER ISSUED DATE

### AUTHORIZING:

Installation of (1) 3" conduit by directional bore along the south side of Malabar Road crossing C-10 (229' R/W width) with depth below canal bottom of fourteen feet (14'), as shown on Sheets 6.1 and 6.2. of approved plan titled "MTWCD Canal-10 Crossing at Malabar Rd NW" by Land & Sea Group, Inc.

Upon completion of work, submit a "Notice of Completion" signed for final inspection and acceptance of work. As-built drawing and boring logs must be provided with the signed NOC.

SUBJECT TO STANDARD AND SPECIAL CONDITIONS AS NOTED

### NOTES:

- This Permit includes:
  - The Approved and Signed Permit (s) and Plan (s). The set of Plans, marked "approved and signed by Michael E. McCabe, P.E., MTWCD Engineer" along with all MTWCD Permits must be retained on the job site, kept in legible condition, and be readily available to the MTWCD personnel, site contractors, and regulatory inspectors.
  - The Notice of Completion. *The Notice of Completion must be completed and returned within 30 days of project completion to schedule a final inspection.*
- This Permit does not convey to OWNER any property rights or any rights or privileges other than those specified herein, nor relieve the permittee from complying with any law, regulation or requirement affecting the rights of other bodies or agencies.
- All structures and works installed by OWNER hereunder shall remain the property of the OWNER and shall be operated and maintained by the OWNER in perpetuity.
- Responsibility for ownership, operation and maintenance may be transferred to another entity acceptable to the district upon written notification, signed by the OWNER and the new ENTITY that said transfer is requested and that all conditions of the permit are accepted.
- The OWNER agrees to hold and save the MTWCD and its successors harmless from any and all damages, claims, or liabilities that may arise from permit issuance.
- The OWNER agrees to alter or remove the authorized use or construction, as permitted if required in the interest of future drainage requirements of the MTWCD.



STANDARD CONDITIONS:


1. Contractor:
  - As stated in application.
  - OWNER must name contractor and so notify MTWCD for permit to be valid.
2. Start of Work:
  - Within 30 days of Permit Date as stated in application
  - OWNER / Contractor must notify MTWCD prior to start date.
3. Construction Dewatering:
  - Authorized as specified herein.
  - Not authorized.
  - Requires separate application by OWNER or Contractor.
4. Any erosion to or shoaling in the canal or flooding due to the permitted works, or failure thereof, shall be the responsibility of the OWNER to remove, repair or correct at no cost to the MTWCD.
5. All disturbed areas within MTWCD rights-of-way to be sodded.
6. Subject to final inspection by MTWCD
7. OWNER to provide MTWCD with as-built plans upon completion of project.
8. This permit does not preclude the OWNER from obtaining all other required permits

SPECIAL CONDITIONS:

- ...A pre-construction meeting with the MTWCD staff is required before any part of the construction begins. Notify MTWCD one week prior to construction start date to schedule on-site meeting with MTWCD Engineer and Manager.
- De-watering is not authorized by this permit. Should it become necessary to use any MTWCD canal for disposal of construction de-watering on any portion of the Project, a MTWCD de-watering must be obtained for each point of discharge into the MTWCD canal system PRIOR to de-watering. All construction discharges into MTWCD Canals, whether direct or indirect, must be visibly clear at all times.
- End treatments such as mitered ends, end walls, etc. are not allowed on storm water outfalls that are perpendicular to the canal ROW. All sod must be staked.
- If field conditions warrant, MTWCD may require a suitably sized rubble splash pad be constructed.
- All BMP's needed to minimize dust migration, embankment stability, etc. must be implemented as needed.
- Failure to comply with the conditions of this permit will render permit Null and Void, all fees will be forfeited.
- Additional Page of Special Conditions attached.

AUTHORIZED BY:

  
Deborah J. LeClair  
District Manager  
For the Board of Directors

  
Michael E. McCabe, PE  
District Engineer  
For the Board of Directors

COPIED TO AGENT/ENGINEER: William Case Sr.  
Utility Lead  
Ayres Associates  
8305 - G Benjamin Road  
Tampa, FL 33634  
caseb@ayresassociates.com



**NOTE TO INSTALLATION CONTRACTOR:**

- DRAWINGS MAY NOT REVEAL THE EXISTENCE OR LOCATION OF ALL UNDERGROUND UTILITIES OR OBSTRUCTIONS. IT IS THE SOLE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES OR OBSTRUCTIONS PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL CONTACT LOCAL UTILITY COMPANIES AND LOCATOR SERVICES FOR SUCH VERIFICATION PRIOR TO ANY EXCAVATION.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTION. CONTRACTOR SHALL "CALL SUNSHINE" 1-800-432-4770 A MINIMUM OF 2-DAYS AND A MAXIMUM OF 5-DAYS PRIOR TO START OF CONSTRUCTION.
- THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY.
- DRAWINGS ARE FOR PERMITTING PURPOSES ONLY, NOT FOR CONSTRUCTION.**
- IT IS NOT ANTICIPATED THAT DEWATERING WILL BE NECESSARY TO PERFORM THIS WORK. DEWATERING PERMITS SHOULD BE OBTAINED PRIOR TO UNDERTAKING SUCH ACTIVITIES.**
- PROPOSED BURIED CONDUIT SHALL BE 36" MINIMUM DEPTH OF COVER.
- DIRECTIONAL BORES UNDER FDOT, COUNTY, AND CITY ROADWAYS SHALL BE 60" BELOW ROAD SURFACE. BORES UNDER DRIVEWAYS SHALL BE 36" BELOW DRIVEWAY SURFACE.
- DRILLING FLUID PRESSURE SHALL NOT EXCEED 10 PSI.
- DIRECTIONAL BORE SHALL CONSIST OF (1) 3" HDPE SDR11 CONDUIT CONTAINING.
- THE CONTRACTOR IS RESPONSIBLE FOR EROSION CONTROL MEASURES, INCLUDING BUT NOT LIMITED TO SILT FENCE, TURBIDITY BARRIER, AND/OR HAY BALES, WITHIN 25' OF ALL WETLAND AND SURFACE WATER AREAS.
- ALL CONSTRUCTION ACTIVITIES INCLUDING STAGING AND STORAGE SHALL BE RESTRICTED WITHIN THE ROAD RIGHT-OF-WAY.
- NO BOUNDARY OR RIGHT-OF-WAY SURVEY PERFORMED. RIGHT-OF-WAYS, TOPO (BACKGROUNDS), AND PROFILE ELEVATIONS SHOWN WERE DERIVED FROM FIELD OBSERVATIONS AND DIGITAL DATA FROM [HTTPS://COAST.NOAA.GOV/DATAVIEWER/#/LIDAR/SEARCH/](https://coast.noaa.gov/dataviewer/#/lidar/search/).
- DURING DIRECTIONAL BORE ACTIVITIES, NO SHEET PILING, EARTHEN DAMS, FILLS (EXCEPT SPOIL OF THE TRENCH OR BORE PIT) OR OTHER INSTALLATIONS THAT WOULD RESTRICT CANAL FLOWS SHALL BE ALLOWED TO BE PLACED IN THE WETTED CANAL AREA.
- CONTRACTOR IS RESPONSIBLE FOR RESTORING ANY DISTURBED AREAS LOCATED WITHIN THE RIGHT-OF-WAY WITH BAHIA GRASS SODDING.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION SAFETY. SPECIAL PRECAUTIONS MAY BE REQUIRED IN THE VICINITY OF OVERHEAD POWER LINES AND OTHER UNDERGROUND UTILITIES.

**ABBREVIATIONS:**

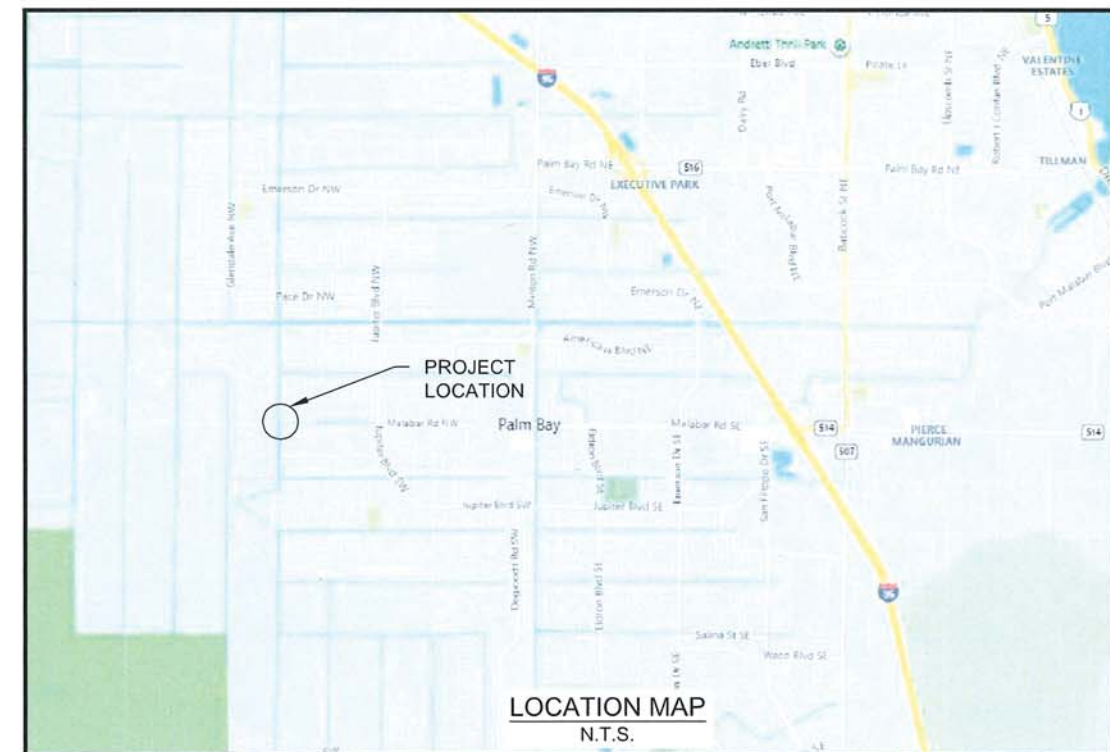
- NGVD = NATIONAL GEODETIC VERTICAL DATUM OF 1929
- NAVD = NORTH AMERICAN VERTICAL DATUM OF 1988
- RCP = REINFORCED CONCRETE PIPE
- FCM = FOUND CONCRETE MONUMENT
- OE = OVERHEAD ELECTRIC
- OT = OVERHEAD TELEPHONE
- INV. = INVERT ELEVATION
- R/W = RIGHT-OF-WAY
- C/L = CENTERLINE
- CONC. = CONCRETE
- CMP = CORRUGATED METAL PIPE
- TELE = TELEPHONE
- MTWCD = MELBOURNE-TILLMAN WATER CONTROL DISTRICT
- SJRWMD = SAINT JOHNS RIVER WATER MANAGEMENT DISTRICT
- EL = ELEVATION
- EXIST. = EXISTING
- PED = PEDESTAL
- PVC = POLYVINYL CHLORIDE PIPE
- CLF = CHAIN LINK FENCE
- BT = BURIED TELEPHONE
- F.D.O.T. = FLORIDA DEPARTMENT OF TRANSPORTATION
- NFV = NOT FIELD VERIFIED (ELEVATIONS AND LOCATIONS SHOWN ARE APPROXIMATE)
- R/W = RIGHT-OF-WAY
- CO. = COUNTY
- LF = LINEAR FEET
- MIN. = MINIMUM

APPROVED  
MTWCD

Date: 7/7/21  
**MT-49-21**

**LEGEND:**

- |   |                                     |   |                     |
|---|-------------------------------------|---|---------------------|
|  | PROPOSED CONDUIT (OPEN TRENCH)      |  | POWER POLE          |
|  | PROPOSED CONDUIT (DIRECTIONAL BORE) |  | GUY POLE            |
|  | RIGHT-OF-WAY                        |  | GUY ANCHOR          |
|  | CENTERLINE                          |  | ROAD SIGN           |
|  | FENCE                               |  | STORM INLET         |
|  | GUARDRAIL                           |  | DIRECTION OF TRAVEL |
|  | STORM PIPE                          |  | WETLAND             |
|  | OVERHEAD ELECTRIC                   |   |                     |
|  | FORCE MAIN SANITARY SEWER           |   |                     |
|  | TREE LINE                           |   |                     |
|  | WATERS EDGE                         |   |                     |
|  | WETLAND                             |   |                     |
|  | TURBIDITY BARRIER                   |   |                     |



AA-Standard.snb 3/6/2021 C:\08 Projects\08-0158 00 WORLDWIDE FIBER OPTIC PROJECT\08-0158 01 MTWCD Canal C-10 South side of Malabar Rd ERP\Drawings\ERP08-0158 01 ERP.dwg, Layout, 6.0

DES BY	AD			
DR BY	AD	PROJ NO	65-0158.01	
CHK BY	JSA	DATE	FEB 2021	NO DATE REVISION

PROFESSIONAL OF RECORD:  
JANICE S. ASH, P.E. #42730  
LAND & SEA GROUP, INC.  
2828 66TH TERRACE SOUTH  
ST. PETERSBURG, FL 33712

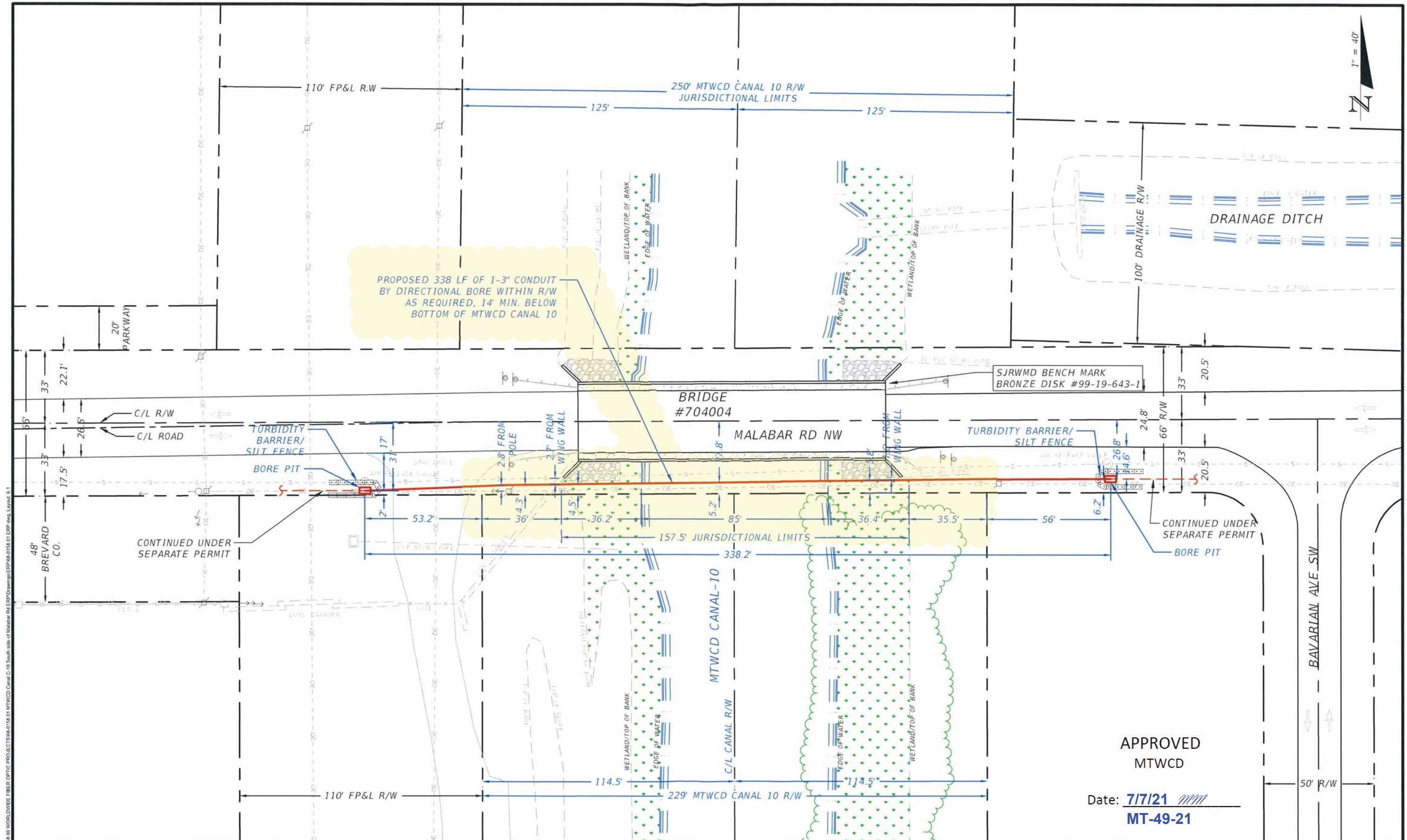
MTWCD CANAL-10 CROSSING AT MALABAR RD NW  
PALM BAY, FL  
HOTWIRE COMMUNICATIONS

LAND & SEA GROUP, INC.  
ENGINEERS & SCIENTISTS  
2828 66th Terrace South  
St. Petersburg, FL 33712  
813-927-0617 janlandsea@gmail.com

GENERAL NOTES & LEGEND

SHEET NO.  
6.0





PROPOSED 338 LF OF 1-3" CONDUIT BY DIRECTIONAL BORE WITHIN R/W AS REQUIRED, 14' MIN. BELOW BOTTOM OF MTWCD CANAL 10

APPROVED  
MTWCD  
Date: 7/7/21  
**MT-49-21**

DES BY	AD			
DR BY	AD	PROJ NO	65-0158.01	
CHK BY	JSA	DATE	FEB 2021	NO DATE REVISION

PROFESSIONAL OF RECORD:  
JANICE S. ASH, P.E. #42730  
LAND & SEA GROUP, INC.  
2828 66TH TERRACE SOUTH  
ST. PETERSBURG, FL 33712

MTWCD CANAL-10 CROSSING AT MALABAR RD NW  
PALM BAY, FL  
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LAND & SEA GROUP, INC.  
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St. Petersburg, FL 33712  
813-927-0617 janlandsea@gmail.com

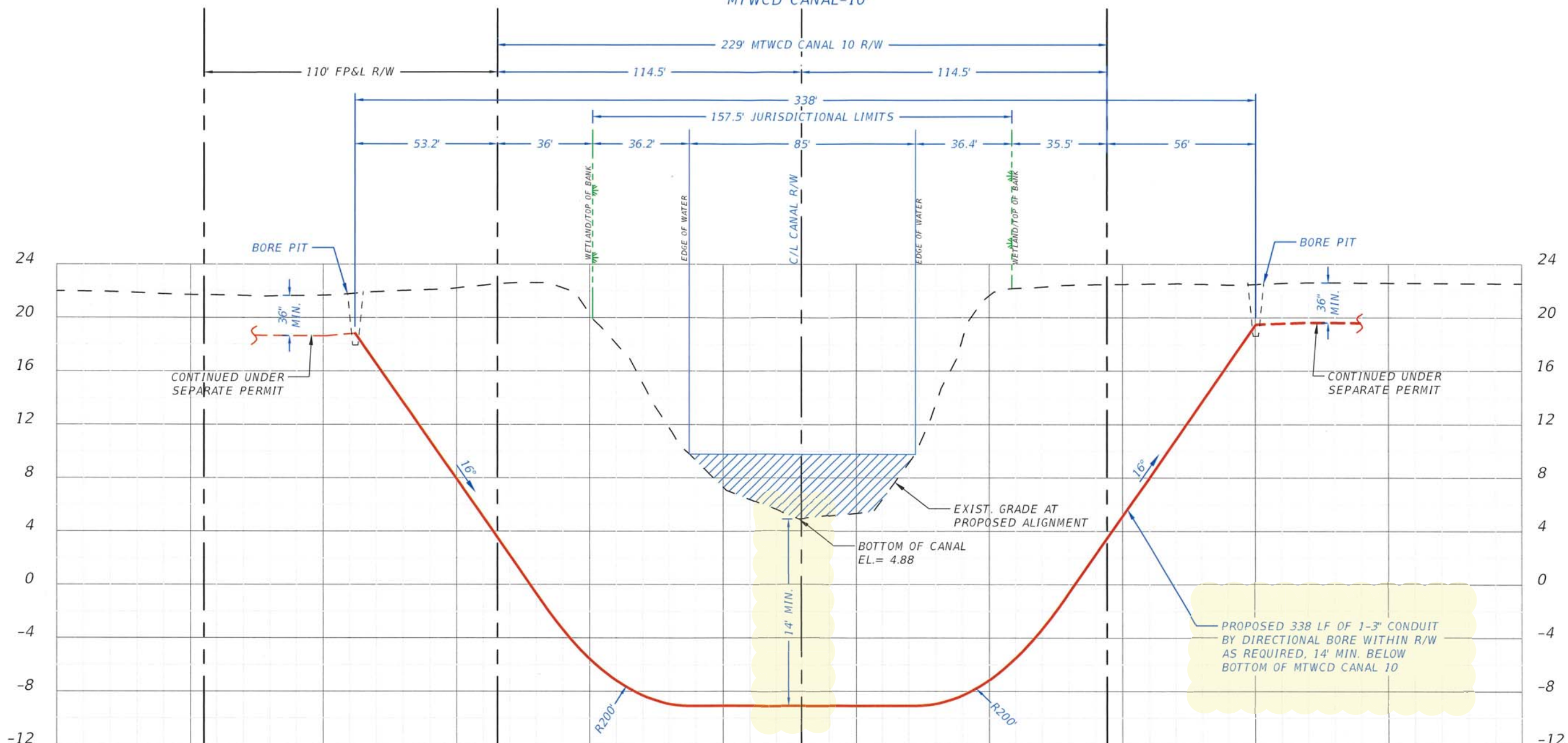
PLAN VIEW

SHEET NO.  
**6.1**

AA-Standard.lbr  
 3/0/2021  
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MTWCD CANAL-10



MALABAR RD W  
DIRECTIONAL BORE PROFILE  
AT MTWCD CANAL-10 (LOOKING NORTH)  
SCALE: 1" = 40' HORIZ.  
1" = 8' VERT.

- NOTES:
1. ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
  2. CONVERSION FROM NAVD88 TO NGVD29 IS +1332 FT.
  3. EXISTING CANAL ELEVATIONS ARE BASED ON FIELD OBSERVATION VISIT ON 02/12/2021).
  4. MAINTAIN MINIMUM 18" VERTICAL SEPARATION FROM EXISTING UTILITIES.

APPROVED  
MTWCD

Date: 7/7/21  
**MT-49-21**

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DES BY	AD			
DR BY	AD	PROJ NO	65-0158.01	
CHK BY	JSA	DATE	FEB 2021	NO DATE REVISION

PROFESSIONAL OF RECORD:  
JANICE S. ASH, P.E. #42730  
LAND & SEA GROUP, INC.  
2828 66TH TERRACE SOUTH  
ST. PETERSBURG, FL 33712

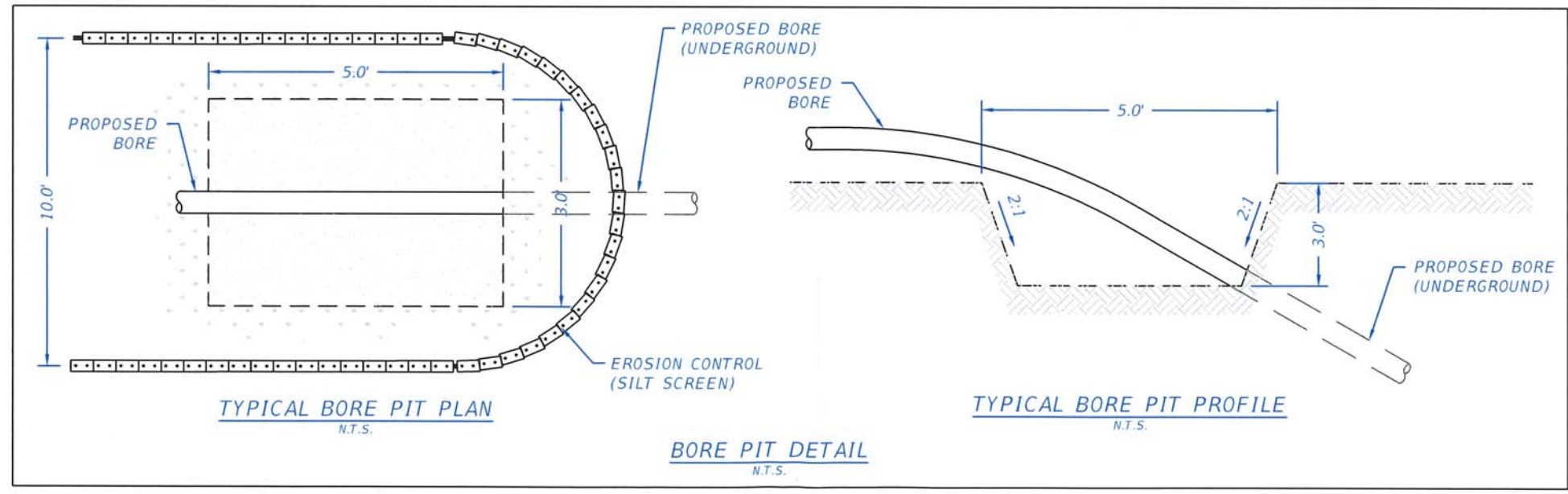
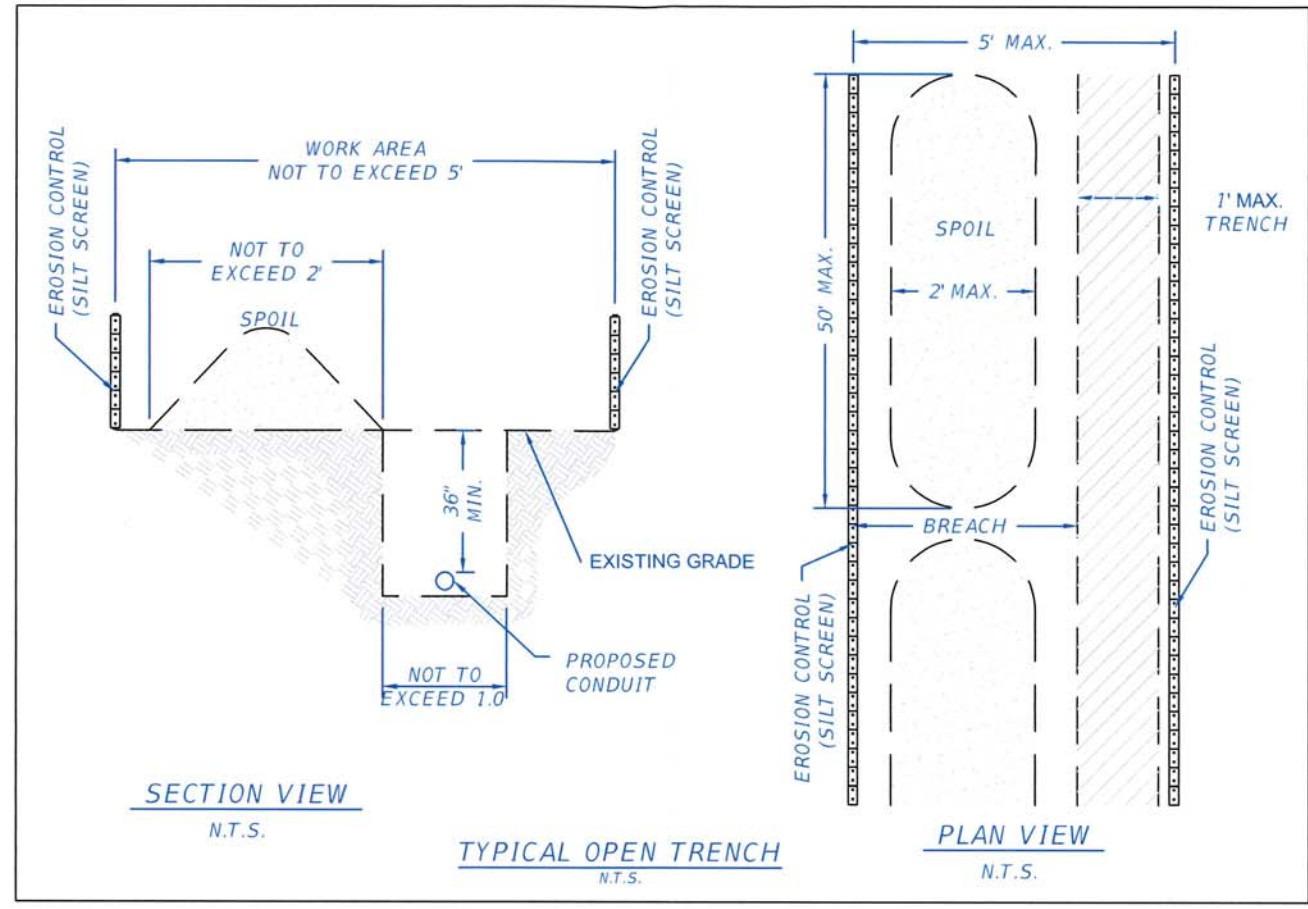
MTWCD CANAL-10 CROSSING AT MALABAR RD NW  
PALM BAY, FL  
HOTWIRE COMMUNICATIONS

LAND & SEA GROUP, INC.  
ENGINEERS & SCIENTISTS  
2828 66th Terrace South  
St. Petersburg, FL 33712  
813-927-0617 janl@lsga.com

PROFILE VIEW

SHEET NO.  
**6.2**





APPROVED  
MTWCD

Date: 7/7/21  
**MT-49-21**

AA-Standard 3B  
3/9/2021  
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DES BY	AD			
DR BY	AD	PROJ NO	65-0158.01	
CHK BY	JSA	DATE	FEB 2021	NO DATE REVISION

PROFESSIONAL OF RECORD:  
JANICE S. ASH, P.E. #42730  
LAND & SEA GROUP, INC.  
2828 66TH TERRACE SOUTH  
ST. PETERSBURG, FL 33712

MTWCD CANAL-10 CROSSING AT MALABAR RD NW  
PALM BAY, FL  
HOTWIRE COMMUNICATIONS

LAND & SEA GROUP, INC.  
ENGINEERS & SCIENTISTS  
2828 66th Terrace South  
St. Petersburg, FL 33712  
813-927-0617 janlandsea@gmail.com

DETAILS

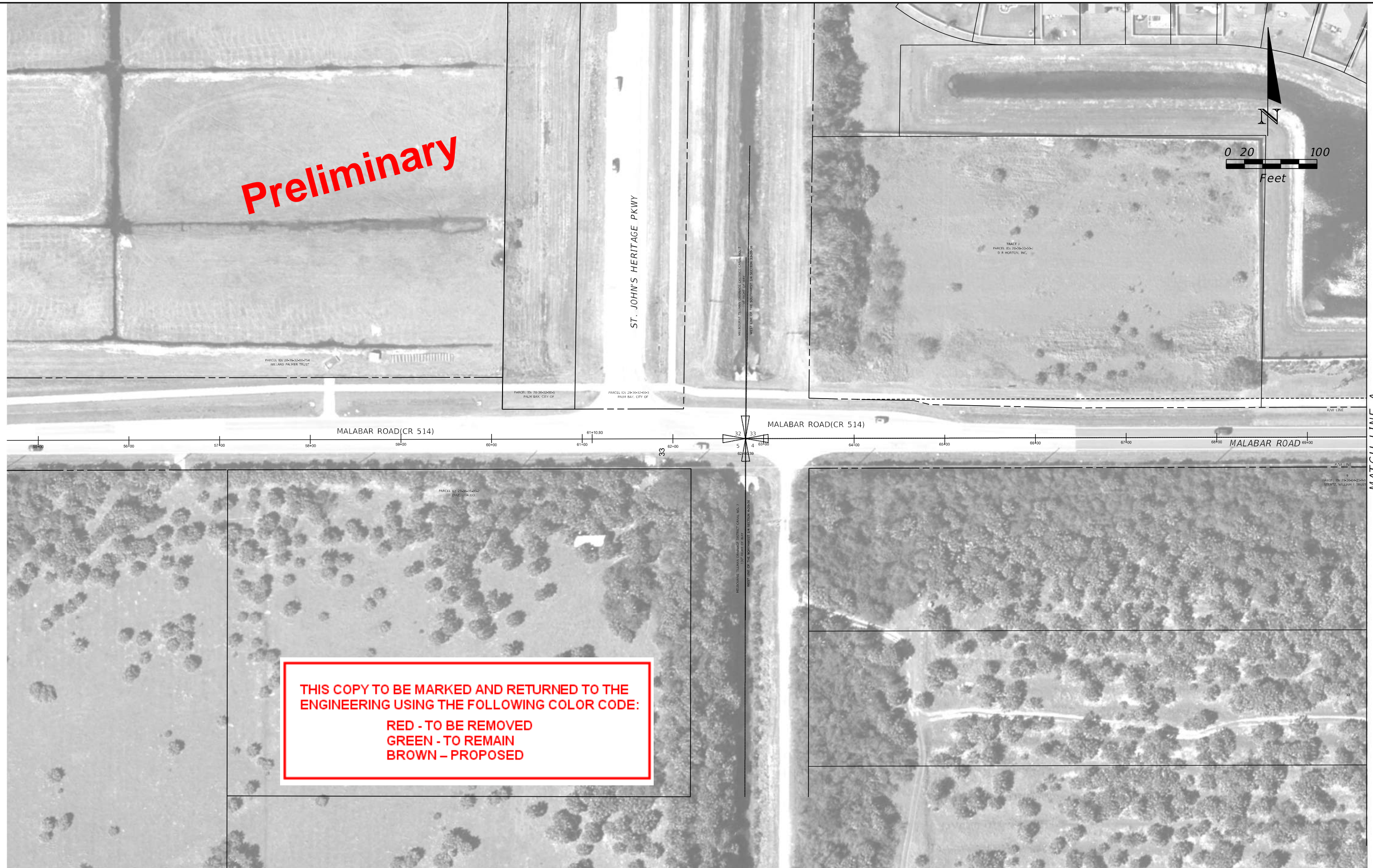
SHEET NO.  
**7.0**



## **Uniti Fiber LLC**



**Preliminary**



**THIS COPY TO BE MARKED AND RETURNED TO THE ENGINEERING USING THE FOLLOWING COLOR CODE:**  
**RED - TO BE REMOVED**  
**GREEN - TO REMAIN**  
**BROWN - PROPOSED**

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			MALABAR ROAD PD&E STUDY PLANSHEET	SHEET NO.  1
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					BREVARD			





REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	MALABAR ROAD PD&E STUDY PLANSHEET		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				
							ROAD NO.
					BREVARD		





REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	MALABAR ROAD PD&E STUDY PLANSHEET		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				
							ROAD NO.
					BREVARD		





REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			MALABAR ROAD PD&E STUDY PLANSHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					BREVARD			4





MATCH LINE D

MATCH LINE E

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	MALABAR ROAD PD&E STUDY PLANSHEET		SHEET NO.  5
DATE	DESCRIPTION	DATE	DESCRIPTION				
					BREVARD		





REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	MALABAR ROAD PD&E STUDY PLANSHEET		SHEET NO.  6
DATE	DESCRIPTION	DATE	DESCRIPTION				
					BREVARD		





MATCH LINE F

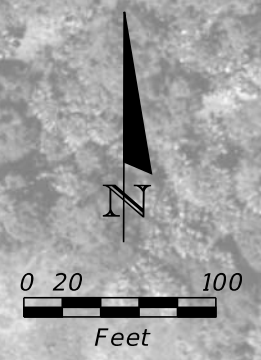
MATCH LINE G

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			MALABAR ROAD PD&E STUDY PLANSHEET	SHEET NO.  7
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					BREVARD			





HILLCREST AVE



Unit 26

Canal 20

Canal 20

MALABAR ROAD

WATOQA AVE SW

WING RD SW

WING RD SW

2902943  
6/1695  
Suarez  
Vacant

2902944  
7/1695  
City of Palm Bay  
Vacant

2902945  
8/1695  
Jameer  
Vacant

2902946  
9/1695  
City of Palm Bay  
Vacant

2902947  
10/1695  
City of Palm Bay  
Occupied

2902948  
11/1695  
Aguste  
Vacant

2902949  
12/1695  
Real Estate Property  
Investments LLC  
Vacant

2902950  
13/1695  
City of Palm Bay  
Vacant

2902951  
14/1695  
Calllung  
Vacant

2901351  
28/982  
City of Palm Bay  
Occupied

2901352  
29/982  
City of Palm Bay  
Vacant

2901353  
30/982  
City of Palm Bay  
Vacant

2901354  
31/982  
JD Valor LLC  
Vacant

2901355  
32/982  
Botner  
Vacant

2901356  
33/982  
Guerrier  
Vacant

2901357  
34/982  
City of Palm Bay  
Vacant

2901358  
35/982  
Vicente  
Vacant

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	MALABAR ROAD PD&E STUDY PLANSHEET		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				
							ROAD NO.
					BREVARD		

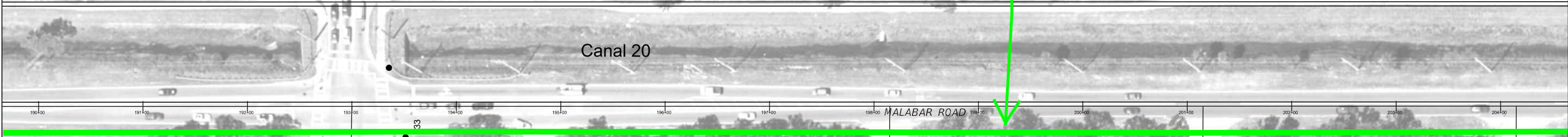
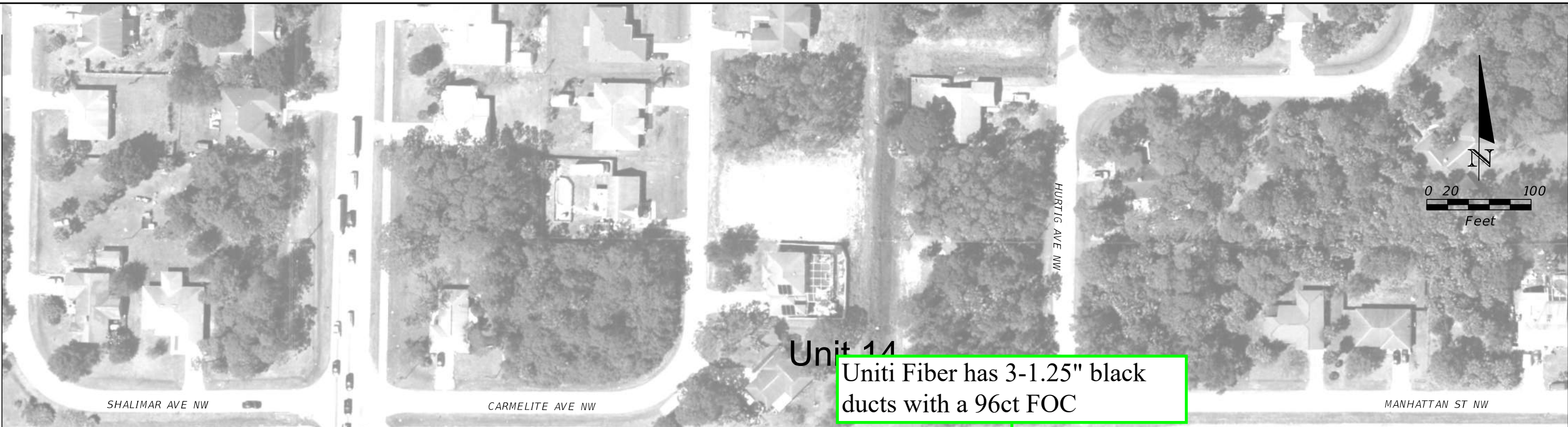




Uniti Fiber has 3-1.25" black ducts with a 96ct FOC

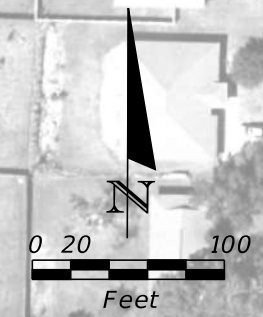
REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			MALABAR ROAD PD&E STUDY PLANSHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					BREVARD			9





REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			MALABAR ROAD PD&E STUDY PLANSHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					BREVARD			10





REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	MALABAR ROAD PD&E STUDY PLANSHEET		SHEET NO.  11
DATE	DESCRIPTION	DATE	DESCRIPTION				
					BREVARD		





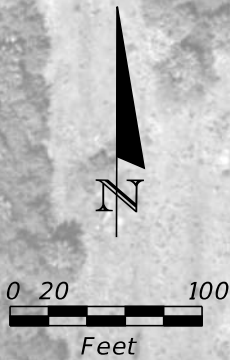
Unit Fiber has 3-1.25" black ducts with a 96ct FOC

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			MALABAR ROAD PD&E STUDY PLANSHEET	SHEET NO.  12
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					BREVARD			



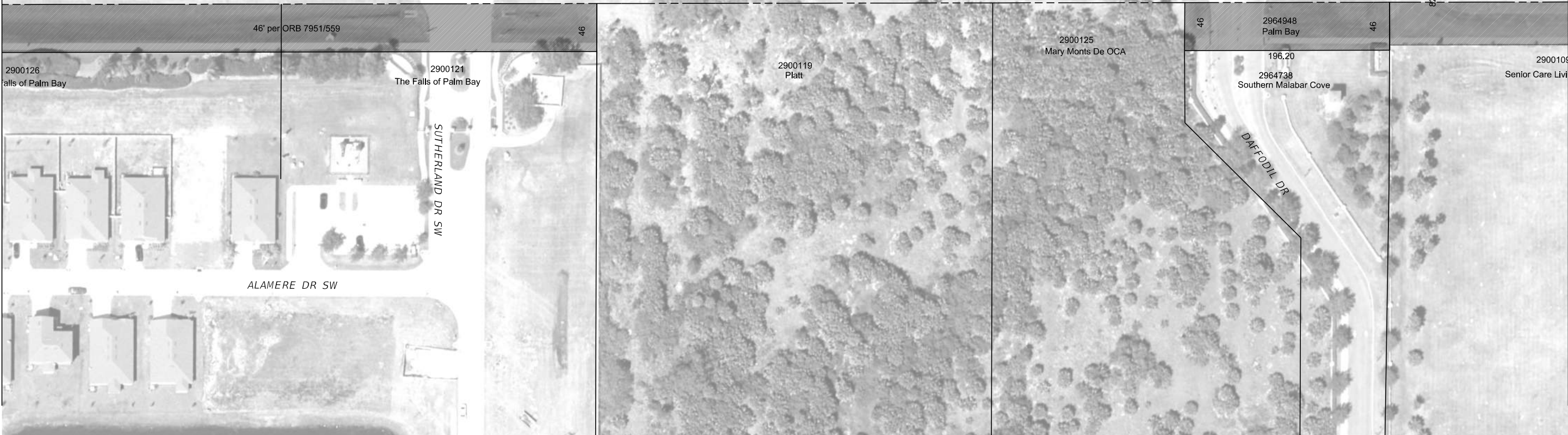
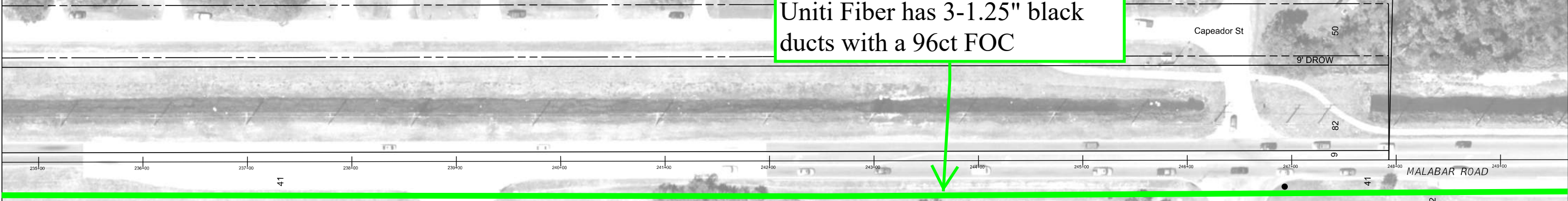


Uniti Fiber has 3-1.25" black ducts with a 96ct FOC



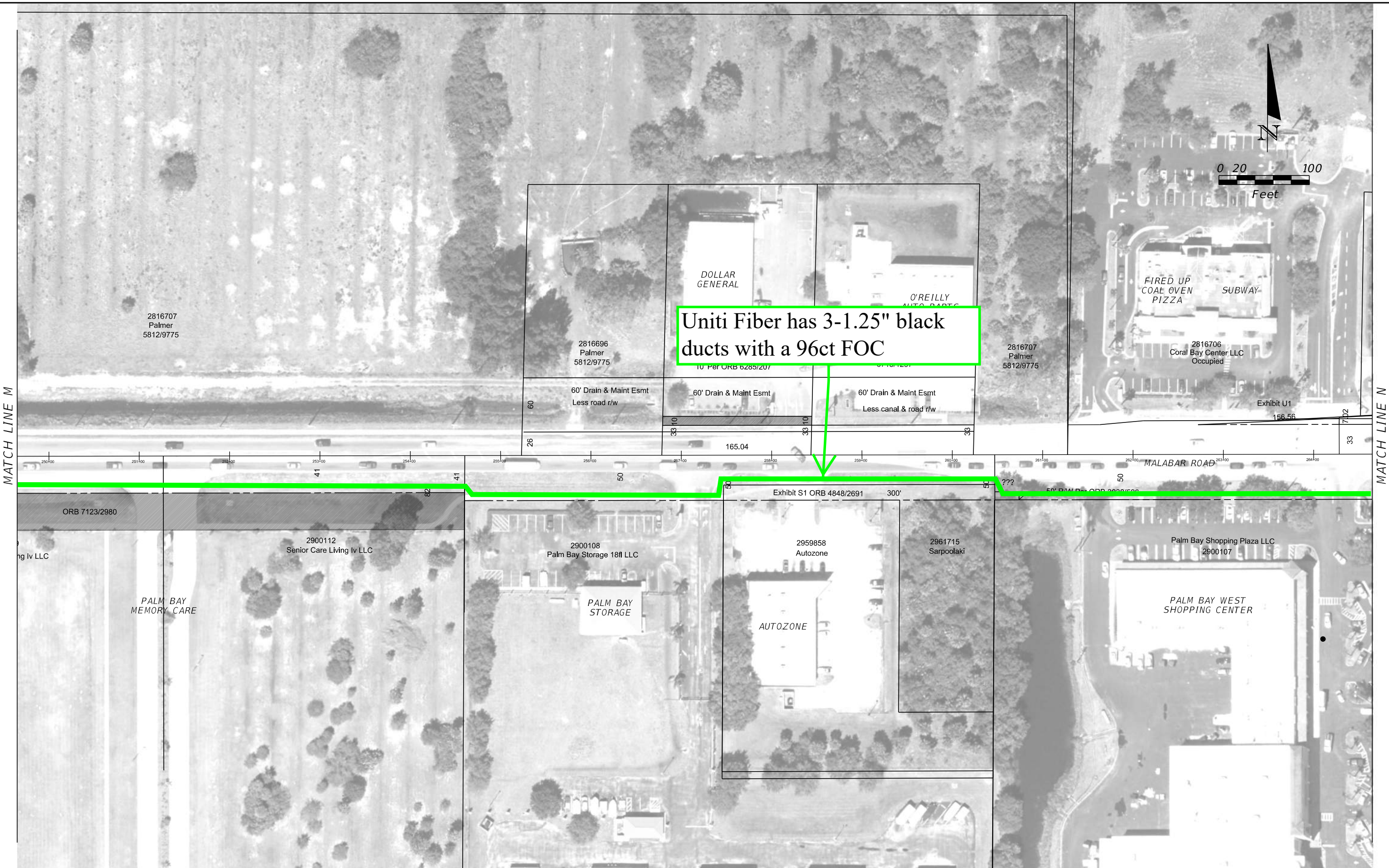
MATCH LINE L

MATCH LINE M



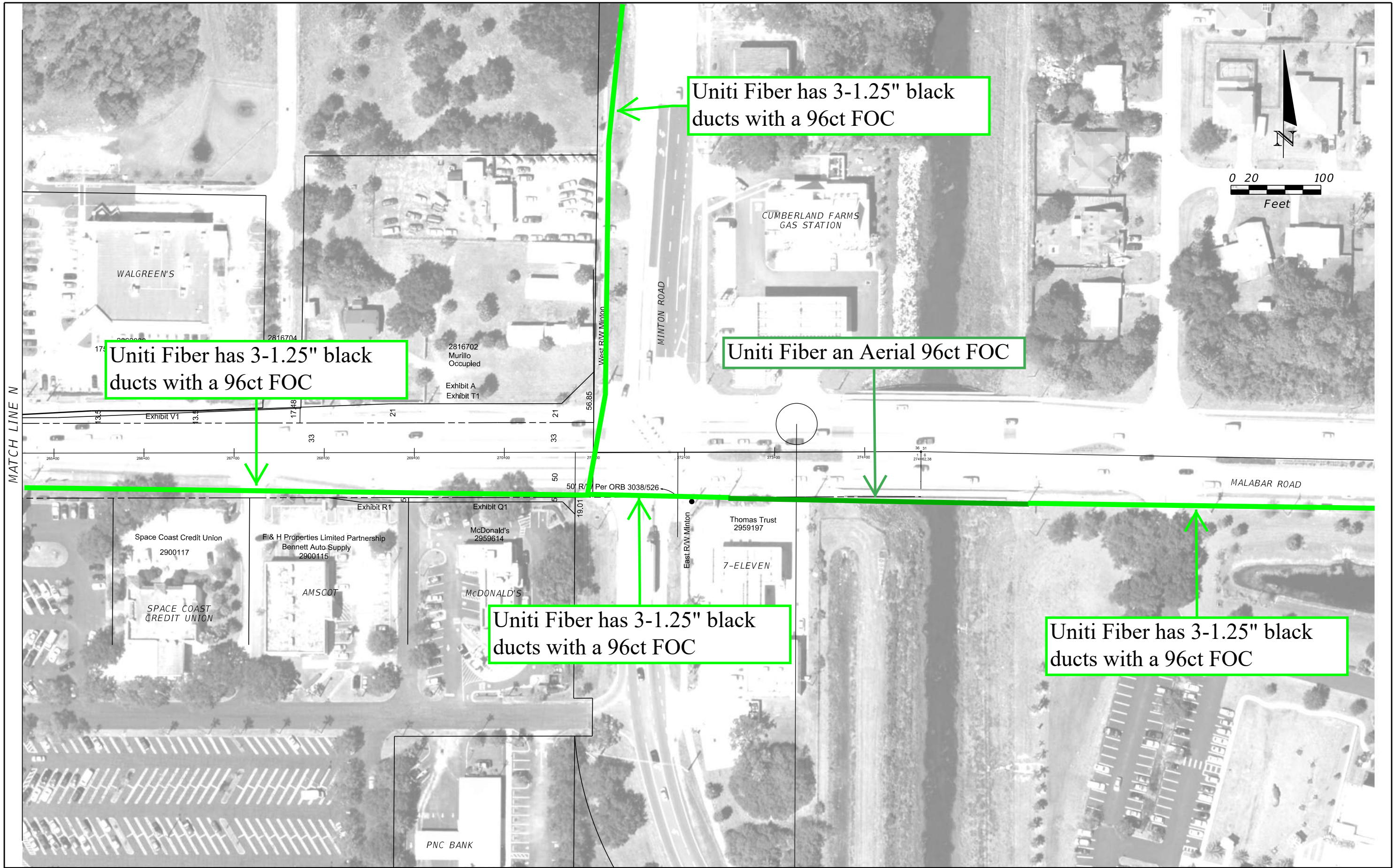
REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			MALABAR ROAD PD&E STUDY PLANSHEET	SHEET NO.  13
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					BREVARD			





REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			MALABAR ROAD PD&E STUDY PLANSHEET	SHEET NO.  14
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					BREVARD			



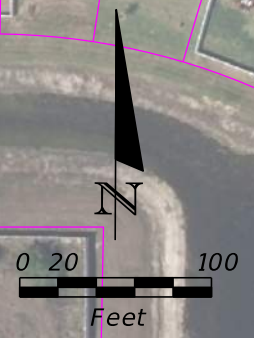
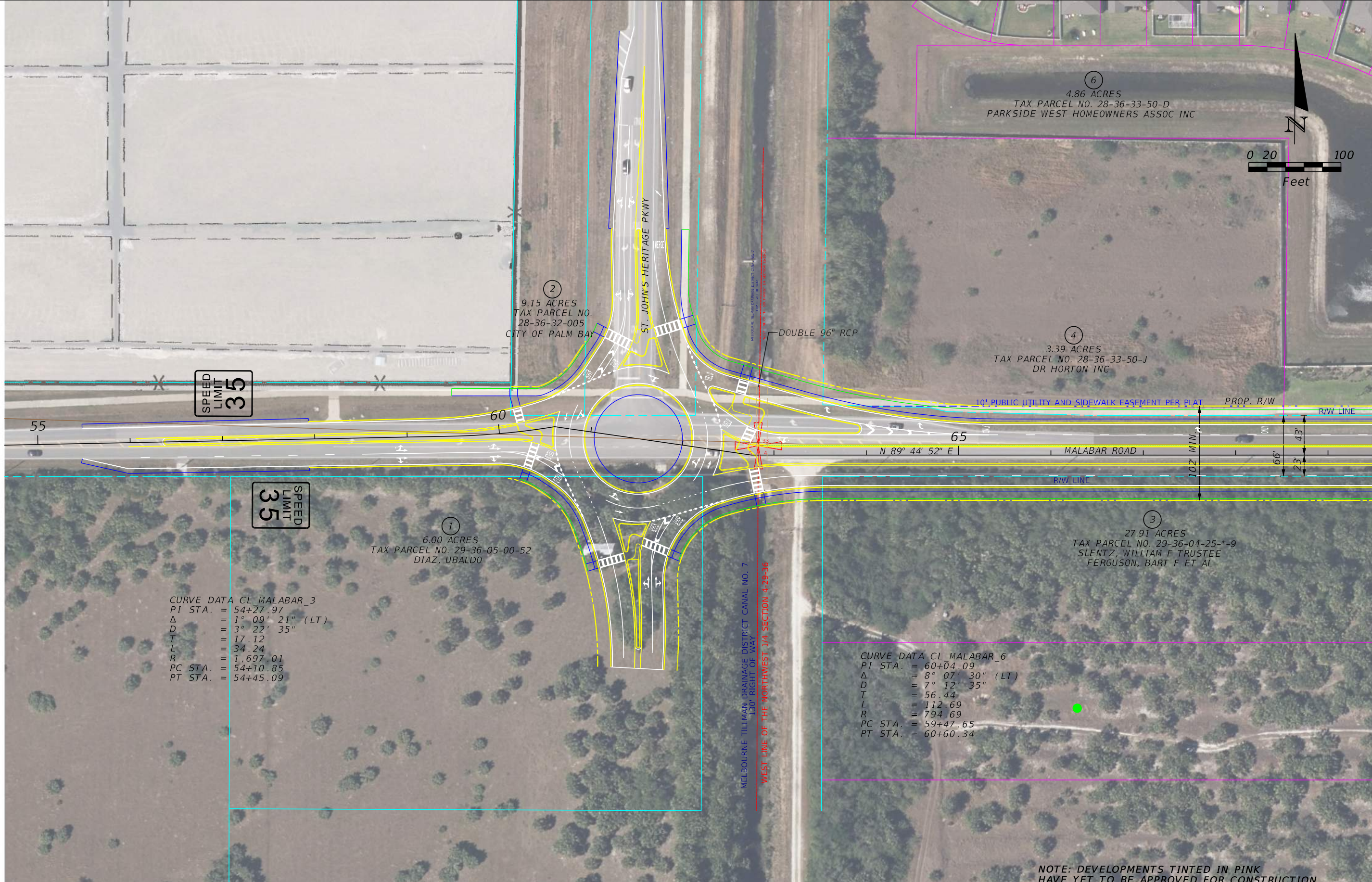


REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	MALABAR ROAD PD&E STUDY PLANSHEET		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				
				ROAD NO.	COUNTY	FINANCIAL PROJECT ID	15
					BREVARD		



**Appendix 3**  
**PD&E Project Recommended Preferred Alternative**  
**Concept Plans**





SPEED LIMIT 35

SPEED LIMIT 35

CURVE DATA CL MALABAR\_3  
 PI STA. = 54+27.97  
 Δ = 1° 09' 21" (LT)  
 D = 3° 22' 35"  
 T = 17.12  
 L = 34.24  
 R = 1,697.01  
 PC STA. = 54+10.85  
 PT STA. = 54+45.09

CURVE DATA CL MALABAR\_6  
 PI STA. = 60+04.09  
 Δ = 8° 07' 30" (LT)  
 D = 7° 12' 35"  
 T = 56.44  
 L = 112.69  
 R = 794.69  
 PC STA. = 59+47.65  
 PT STA. = 60+60.34

NOTE: DEVELOPMENTS TINTED IN PINK HAVE YET TO BE APPROVED FOR CONSTRUCTION.

**LEGEND**

	EXISTING PARCEL LINE		MEDIUM RISK CONTAMINATION SITES
	SUBDIVISION PARCEL LINES		CITY ACQUIRED PARCELS
	EXISTING RIGHT OF WAY		FLOODPLAIN
	PROPOSED RIGHT OF WAY		UNAPPROVED DEVELOPMENT
	CITY BOUNDARY		RECOMMENDED PREFERRED POND/SWALE LOCATION
	BUS STOP LOCATIONS		RECOM. PREF. FLOODPLAIN COMPENSATION AREA
	POTENTIAL HISTORIC BUILDING		

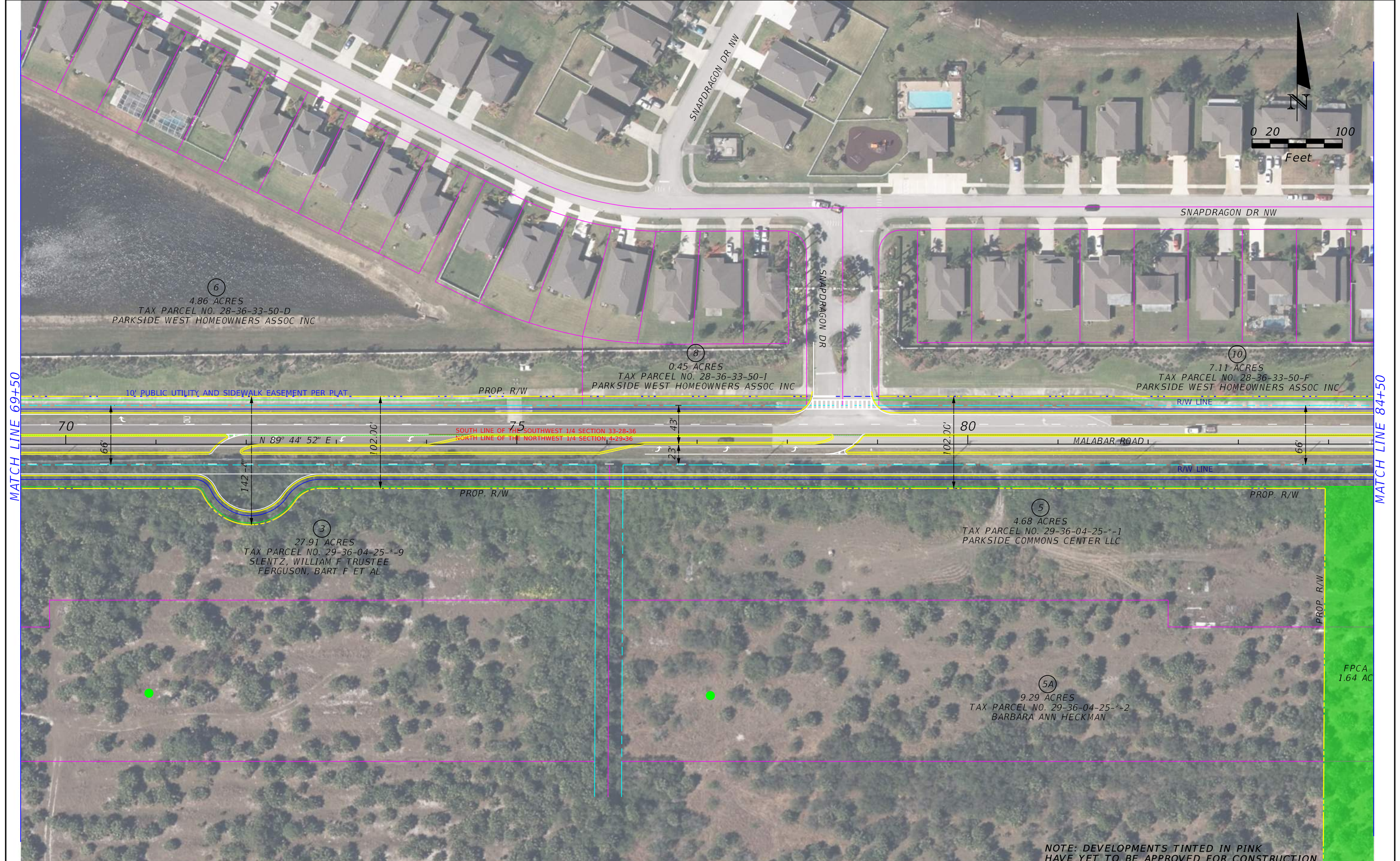
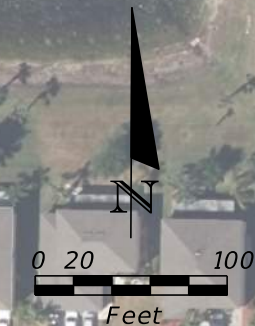


CITY OF PALM BAY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	BREVARD	

**MALABAR ROAD PD&E STUDY  
 PLANSHEET  
 RECOMMENDED  
 PREFERRED ALTERNATIVE**

SHEET NO.  
 1





MATCH LINE 69+50

MATCH LINE 84+50

NOTE: DEVELOPMENTS TINTED IN PINK HAVE YET TO BE APPROVED FOR CONSTRUCTION.

LEGEND	
	EXISTING PARCEL LINE
	SUBDIVISION PARCEL LINES
	EXISTING RIGHT OF WAY
	PROPOSED RIGHT OF WAY
	CITY BOUNDARY
	BUS STOP LOCATIONS
	POTENTIAL HISTORIC BUILDING
	MEDIUM RISK CONTAMINATION SITES
	CITY ACQUIRED PARCELS
	FLOODPLAIN
	UNAPPROVED DEVELOPMENT
	RECOMMENDED PREFERRED POND/SWALE LOCATION
	RECOM. PREF. FLOODPLAIN COMPENSATION AREA

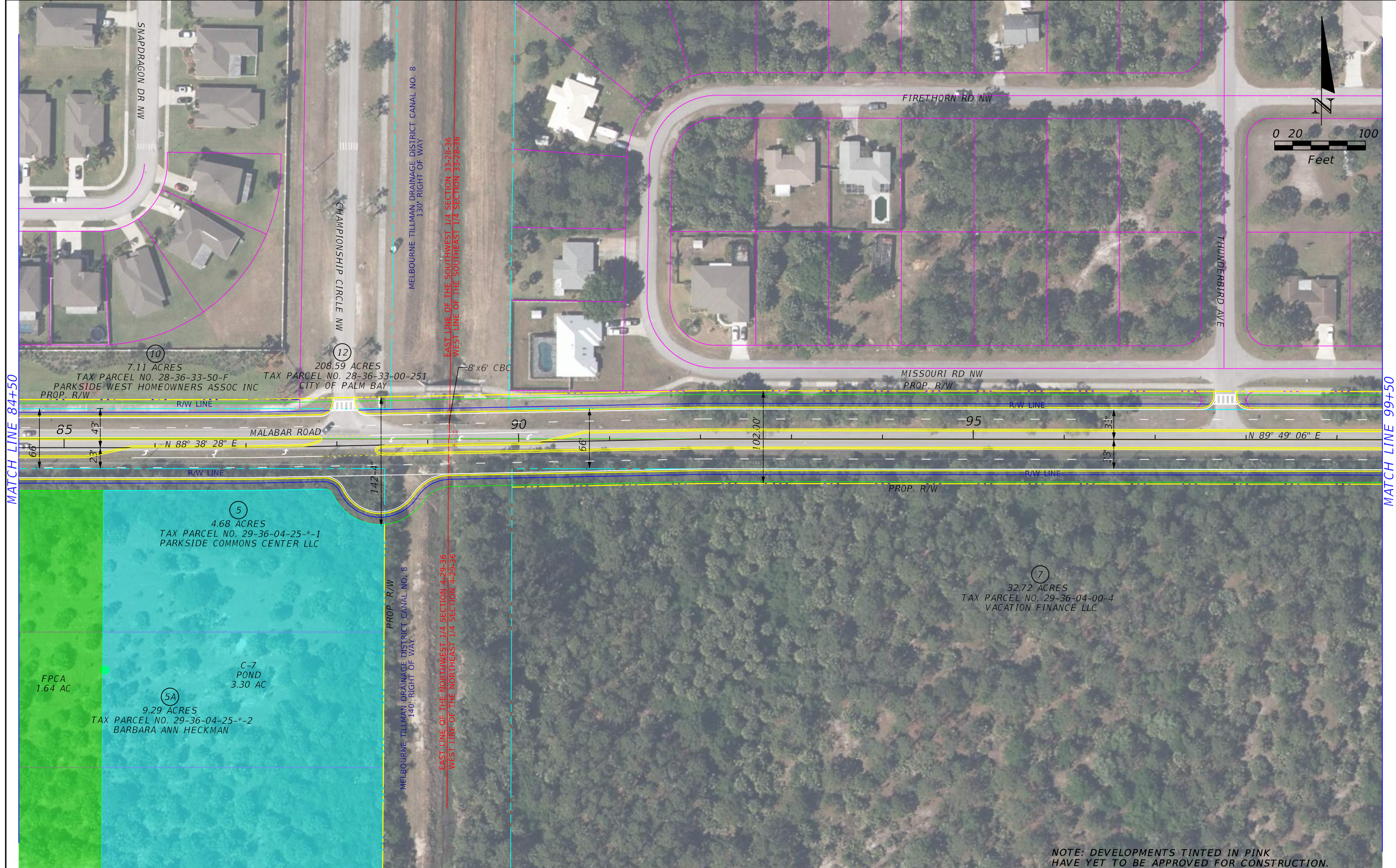


CITY OF PALM BAY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	BREVARD	

**MALABAR ROAD PD&E STUDY  
PLANSHEET  
RECOMMENDED  
PREFERRED ALTERNATIVE**

SHEET NO.
2





MATCH LINE 84+50

MATCH LINE 99+50

NOTE: DEVELOPMENTS TINTED IN PINK HAVE YET TO BE APPROVED FOR CONSTRUCTION.

LEGEND	
	EXISTING PARCEL LINE
	SUBDIVISION PARCEL LINES
	EXISTING RIGHT OF WAY
	PROPOSED RIGHT OF WAY
	CITY BOUNDARY
	BUS STOP LOCATIONS
	POTENTIAL HISTORIC BUILDING
	MEDIUM RISK CONTAMINATION SITES
	CITY ACQUIRED PARCELS
	FLOODPLAIN
	UNAPPROVED DEVELOPMENT
	RECOMMENDED PREFERRED POND/SWALE LOCATION
	RECOM. PREFERRED FLOODPLAIN COMPENSATION AREA

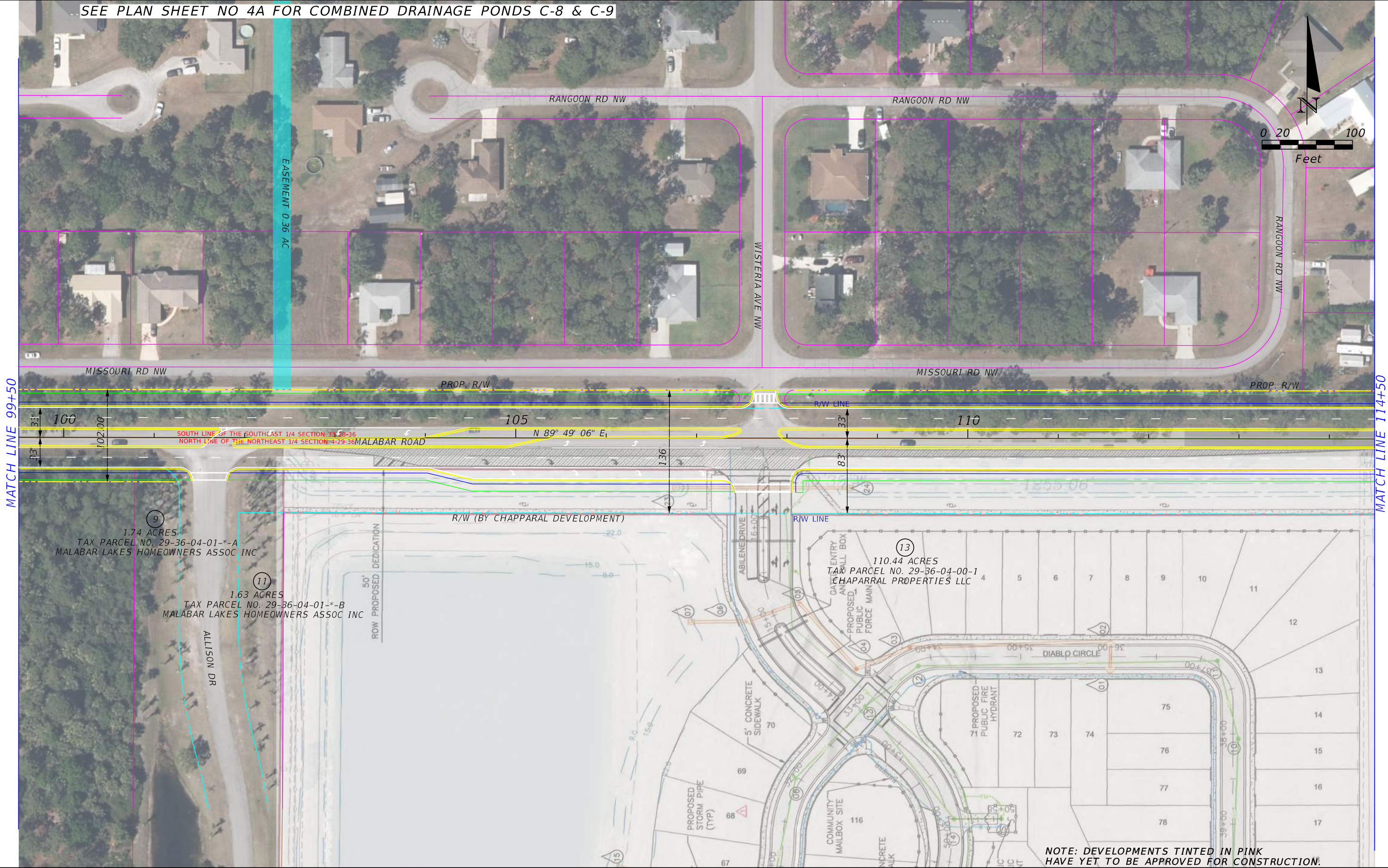


CITY OF PALM BAY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	BREVARD	

**MALABAR ROAD PD&E STUDY  
PLANSHEET  
RECOMMENDED  
PREFERRED ALTERNATIVE**

SHEET NO.  
3





MATCH LINE 99+50

MATCH LINE 114+50

NOTE: DEVELOPMENTS TINTED IN PINK HAVE YET TO BE APPROVED FOR CONSTRUCTION.

**LEGEND**

	EXISTING PARCEL LINE		MEDIUM RISK CONTAMINATION SITES
	SUBDIVISION PARCEL LINES		CITY ACQUIRED PARCELS
	EXISTING RIGHT OF WAY		FLOODPLAIN
	PROPOSED RIGHT OF WAY		UNAPPROVED DEVELOPMENT
	CITY BOUNDARY		RECOMMENDED PREFERRED POND/SWALE LOCATION
	BUS STOP LOCATIONS		RECOM. PREF. FLOODPLAIN COMPENSATION AREA
	POTENTIAL HISTORIC BUILDING		



CITY OF PALM BAY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	BREVARD	

**MALABAR ROAD PD&E STUDY  
PLANSHEET  
RECOMMENDED  
PREFERRED ALTERNATIVE**

SHEET NO.  
**4**





REGRADE EXISTING DITCH  
AROUND PROPOSED POND

EASEMENT 0.36 AC

C-8 & C-9  
COMBINED  
POND  
3.45 AC

46  
6.79 ACRES  
TAX PARCEL NO. 28-36-33-01-B  
CITY OF PALM BAY

SEE PLAN SHEET NO 4

**LEGEND**

	EXISTING PARCEL LINE		MEDIUM RISK CONTAMINATION SITES
	SUBDIVISION PARCEL LINES		CITY ACQUIRED PARCELS
	EXISTING RIGHT OF WAY		FLOODPLAIN
	PROPOSED RIGHT OF WAY		UNAPPROVED DEVELOPMENT
	CITY BOUNDARY		RECOMMENDED PREFERRED POND/SWALE LOCATION
	BUS STOP LOCATIONS		RECOM. PREFERRED FLOODPLAIN COMPENSATION AREA
	POTENTIAL HISTORIC BUILDING		

ROAD NO.	COUNTY
	BREVARD
FINANCIAL PROJECT ID	

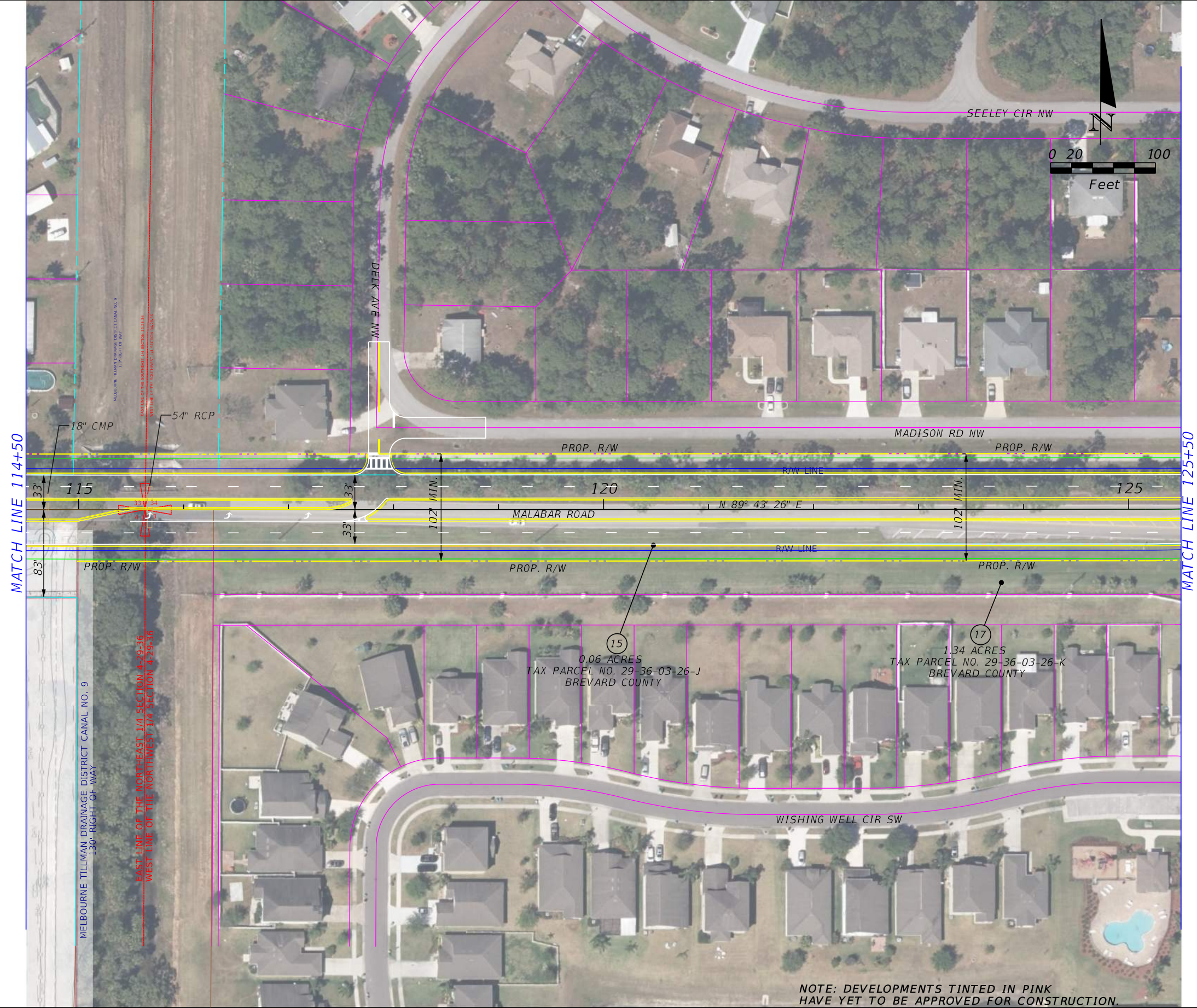


CITY OF PALM BAY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	BREVARD	
FINANCIAL PROJECT ID		

**MALABAR ROAD PD&E STUDY  
PLANSHEET  
RECOMMENDED  
PREFERRED ALTERNATIVE**

SHEET NO.
4A





**LEGEND**

	EXISTING PARCEL LINE		MEDIUM RISK CONTAMINATION SITES
	SUBDIVISION PARCEL LINES		CITY ACQUIRED PARCELS
	EXISTING RIGHT OF WAY		FLOODPLAIN
	PROPOSED RIGHT OF WAY		UNAPPROVED DEVELOPMENT
	CITY BOUNDARY		RECOMMENDED PREFERRED POND/SWALE LOCATION
	BUS STOP LOCATIONS		RECOM. PREFERRED FLOODPLAIN COMPENSATION AREA
	POTENTIAL HISTORIC BUILDING		

	MEDIUM RISK CONTAMINATION SITES
	CITY ACQUIRED PARCELS
	FLOODPLAIN
	UNAPPROVED DEVELOPMENT
	RECOMMENDED PREFERRED POND/SWALE LOCATION
	RECOM. PREFERRED FLOODPLAIN COMPENSATION AREA

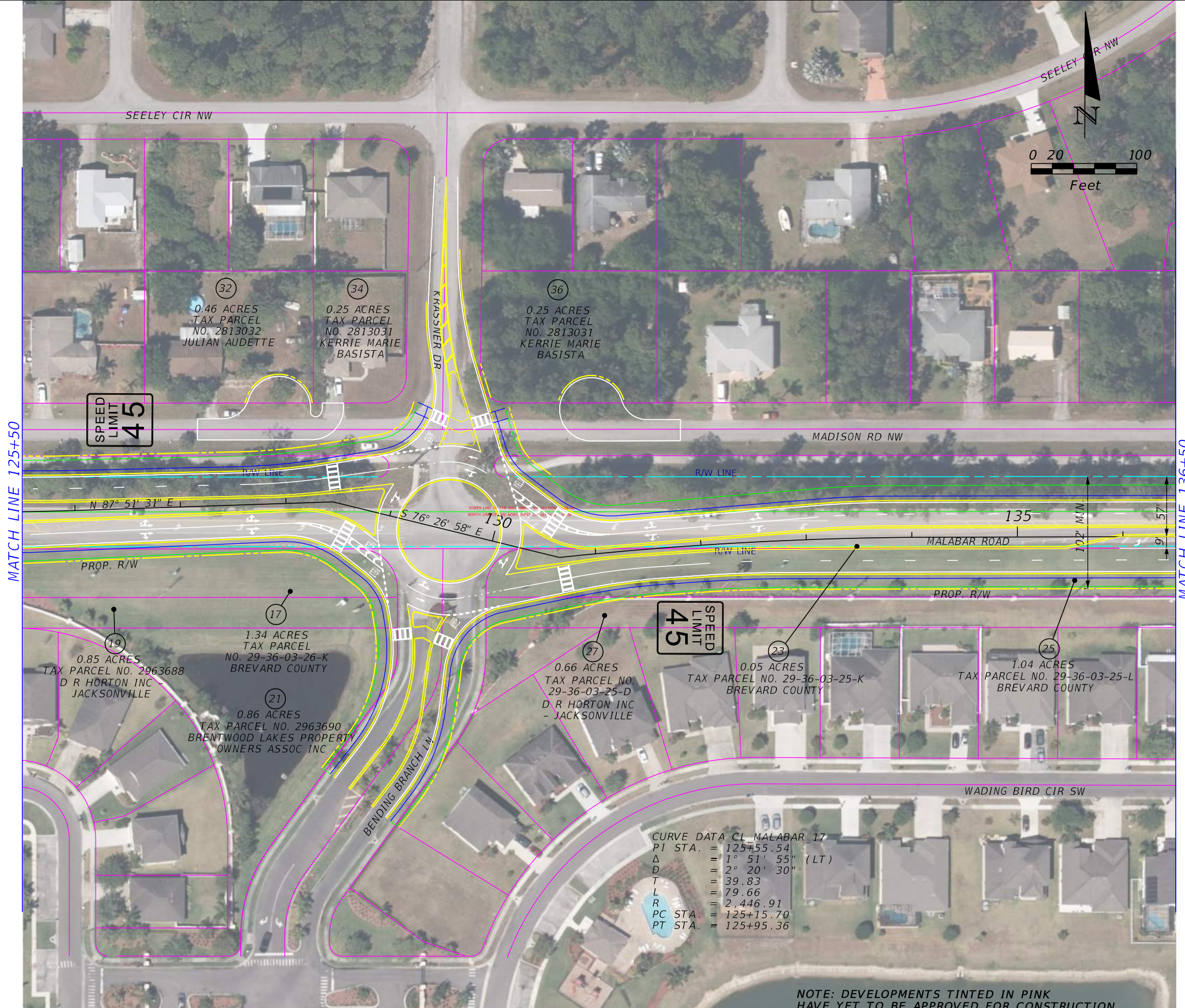


CITY OF PALM BAY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	BREVARD	

**MALABAR ROAD PD&E STUDY  
PLANSHEET  
RECOMMENDED  
PREFERRED ALTERNATIVE**

SHEET NO.
5





**LEGEND**

	EXISTING PARCEL LINE		MEDIUM RISK CONTAMINATION SITES
	SUBDIVISION PARCEL LINES		CITY ACQUIRED PARCELS
	EXISTING RIGHT OF WAY		FLOODPLAIN
	PROPOSED RIGHT OF WAY		UNAPPROVED DEVELOPMENT
	CITY BOUNDARY		RECOMMENDED PREFERRED POND/SWALE LOCATION
	BUS STOP LOCATIONS		RECOM. PREFERRED FLOODPLAIN COMPENSATION AREA
	POTENTIAL HISTORIC BUILDING		

	MEDIUM RISK CONTAMINATION SITES
	CITY ACQUIRED PARCELS
	FLOODPLAIN
	UNAPPROVED DEVELOPMENT
	RECOMMENDED PREFERRED POND/SWALE LOCATION
	RECOM. PREFERRED FLOODPLAIN COMPENSATION AREA

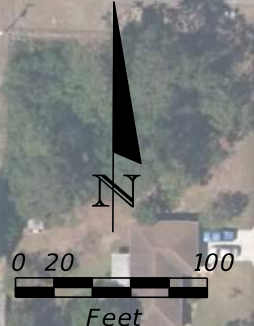


CITY OF PALM BAY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	BREVARD	

**MALABAR ROAD PD&E STUDY  
 PLANSHEET  
 RECOMMENDED  
 PREFERRED ALTERNATIVE**

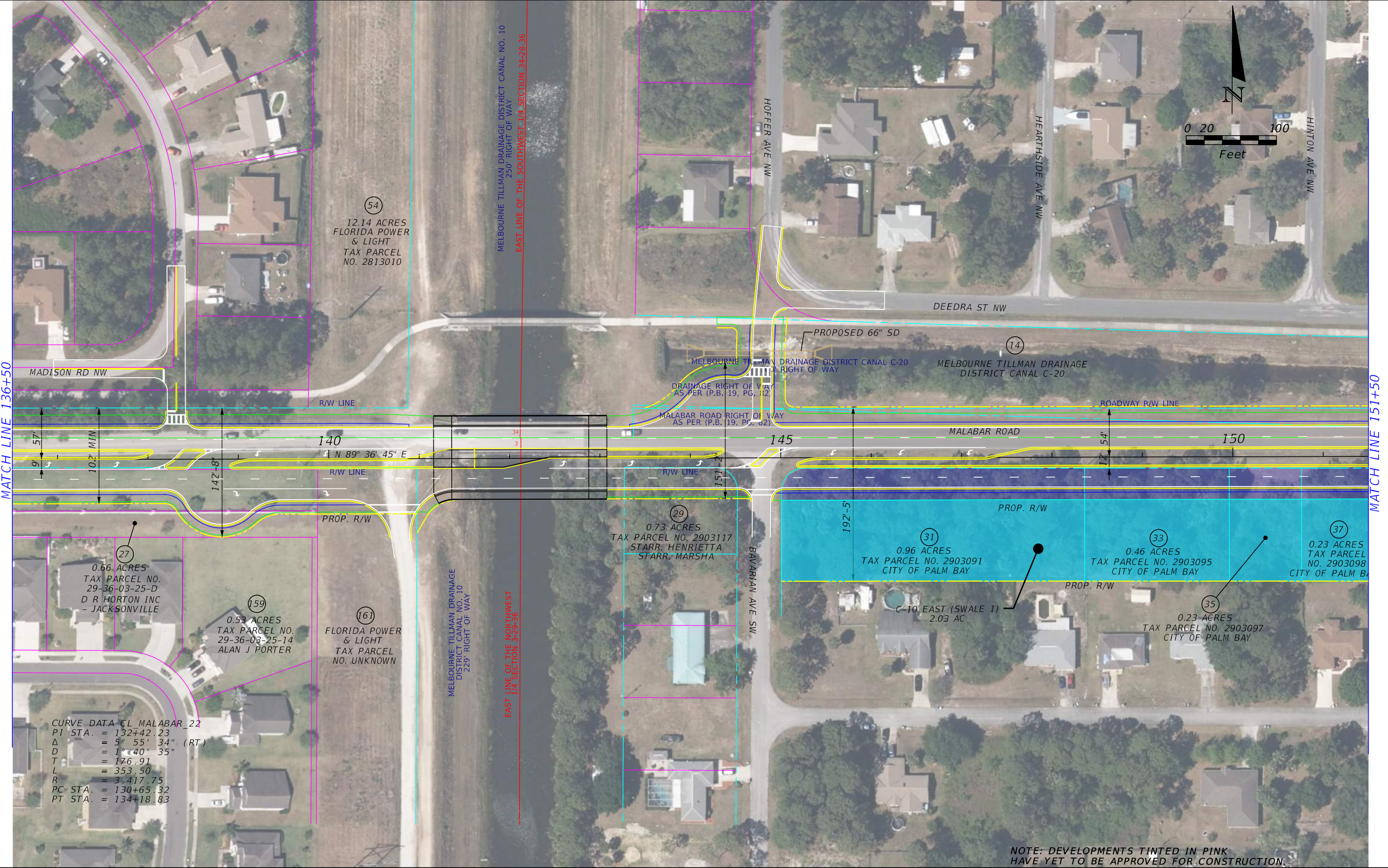
SHEET NO.
6





MATCH LINE 136+50

MATCH LINE 151+50



NOTE: DEVELOPMENTS TINTED IN PINK HAVE YET TO BE APPROVED FOR CONSTRUCTION.

**LEGEND**

	EXISTING PARCEL LINE		MEDIUM RISK CONTAMINATION SITES
	SUBDIVISION PARCEL LINES		CITY ACQUIRED PARCELS
	EXISTING RIGHT OF WAY		FLOODPLAIN
	PROPOSED RIGHT OF WAY		UNAPPROVED DEVELOPMENT
	CITY BOUNDARY		RECOMMENDED PREFERRED POND/SWALE LOCATION
	BUS STOP LOCATIONS		RECOM. PREFERRED FLOODPLAIN COMPENSATION AREA
	POTENTIAL HISTORIC BUILDING		

	MEDIUM RISK CONTAMINATION SITES
	CITY ACQUIRED PARCELS
	FLOODPLAIN
	UNAPPROVED DEVELOPMENT
	RECOMMENDED PREFERRED POND/SWALE LOCATION
	RECOM. PREFERRED FLOODPLAIN COMPENSATION AREA

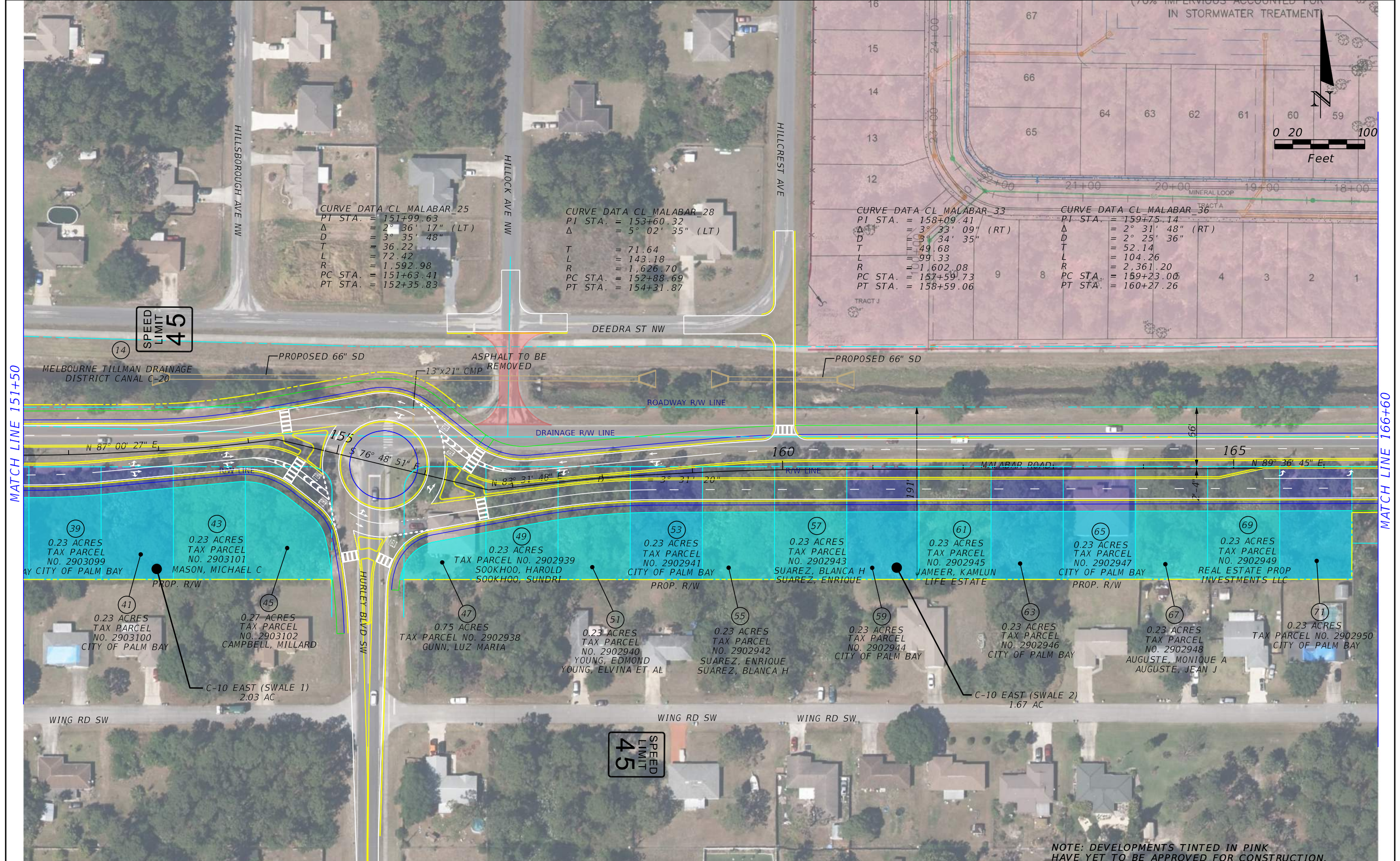


CITY OF PALM BAY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	BREVARD	

**MALABAR ROAD PD&E STUDY  
 PLANSHEET  
 RECOMMENDED  
 PREFERRED ALTERNATIVE**

SHEET NO.  
7





CURVE DATA CL MALABAR\_25  
 PI STA. = 151+99.63  
 $\Delta$  = 2° 36' 17" (LT)  
 D = 3° 35' 48"  
 T = 36.22  
 L = 72.42  
 R = 1,592.98  
 PC STA. = 151+63.41  
 PT STA. = 152+35.83

CURVE DATA CL MALABAR\_28  
 PI STA. = 153+60.32  
 $\Delta$  = 5° 02' 35" (LT)  
 T = 71.64  
 L = 143.18  
 R = 1,626.70  
 PC STA. = 152+88.69  
 PT STA. = 154+31.87

CURVE DATA CL MALABAR\_33  
 PI STA. = 158+09.41  
 $\Delta$  = 3° 33' 09" (RT)  
 D = 3° 34' 35"  
 T = 49.68  
 L = 99.33  
 R = 1,602.08  
 PC STA. = 157+59.73  
 PT STA. = 158+59.06

CURVE DATA CL MALABAR\_36  
 PI STA. = 159+75.14  
 $\Delta$  = 2° 31' 48" (RT)  
 D = 2° 25' 36"  
 T = 52.14  
 L = 104.26  
 R = 2,361.20  
 PC STA. = 159+23.00  
 PT STA. = 160+27.26

MATCH LINE 151+50

MATCH LINE 166+60

- 39 0.23 ACRES TAX PARCEL NO. 2903099 CITY OF PALM BAY
- 41 0.23 ACRES TAX PARCEL NO. 2903100 CITY OF PALM BAY
- 43 0.23 ACRES TAX PARCEL NO. 2903101 MASON, MICHAEL C PROP. R/W
- 45 0.27 ACRES TAX PARCEL NO. 2903102 CAMPBELL, MILLARD
- 47 0.75 ACRES TAX PARCEL NO. 2902938 GUNN, LUZ MARIA
- 49 0.23 ACRES TAX PARCEL NO. 2902939 SOOKHOO, HAROLD SOOKHOO, SUNDRI
- 51 0.23 ACRES TAX PARCEL NO. 2902940 YOUNG, EDMOND YOUNG, ELVINA ET AL
- 53 0.23 ACRES TAX PARCEL NO. 2902941 CITY OF PALM BAY PROP. R/W
- 55 0.23 ACRES TAX PARCEL NO. 2902942 SUAREZ, ENRIQUE SUAREZ, BLANCA H
- 57 0.23 ACRES TAX PARCEL NO. 2902943 SUAREZ, BLANCA H SUAREZ, ENRIQUE
- 59 0.23 ACRES TAX PARCEL NO. 2902944 CITY OF PALM BAY
- 61 0.23 ACRES TAX PARCEL NO. 2902945 JAMEER, KAMLUN LIFE ESTATE
- 63 0.23 ACRES TAX PARCEL NO. 2902946 CITY OF PALM BAY
- 65 0.23 ACRES TAX PARCEL NO. 2902947 CITY OF PALM BAY PROP. R/W
- 67 0.23 ACRES TAX PARCEL NO. 2902948 AUGUSTE, MONIQUE A AUGUSTE, JEAN J
- 69 0.23 ACRES TAX PARCEL NO. 2902949 REAL ESTATE PROP INVESTMENTS LLC
- 71 0.23 ACRES TAX PARCEL NO. 2902950 CITY OF PALM BAY

**LEGEND**

	EXISTING PARCEL LINE		MEDIUM RISK CONTAMINATION SITES
	SUBDIVISION PARCEL LINES		CITY ACQUIRED PARCELS
	EXISTING RIGHT OF WAY		FLOODPLAIN
	PROPOSED RIGHT OF WAY		UNAPPROVED DEVELOPMENT
	CITY BOUNDARY		RECOMMENDED PREFERRED POND/SWALE LOCATION
	BUS STOP LOCATIONS		RECOM. PREFERRED FLOODPLAIN COMPENSATION AREA
	POTENTIAL HISTORIC BUILDING		

	MEDIUM RISK CONTAMINATION SITES
	CITY ACQUIRED PARCELS
	FLOODPLAIN
	UNAPPROVED DEVELOPMENT
	RECOMMENDED PREFERRED POND/SWALE LOCATION
	RECOM. PREFERRED FLOODPLAIN COMPENSATION AREA

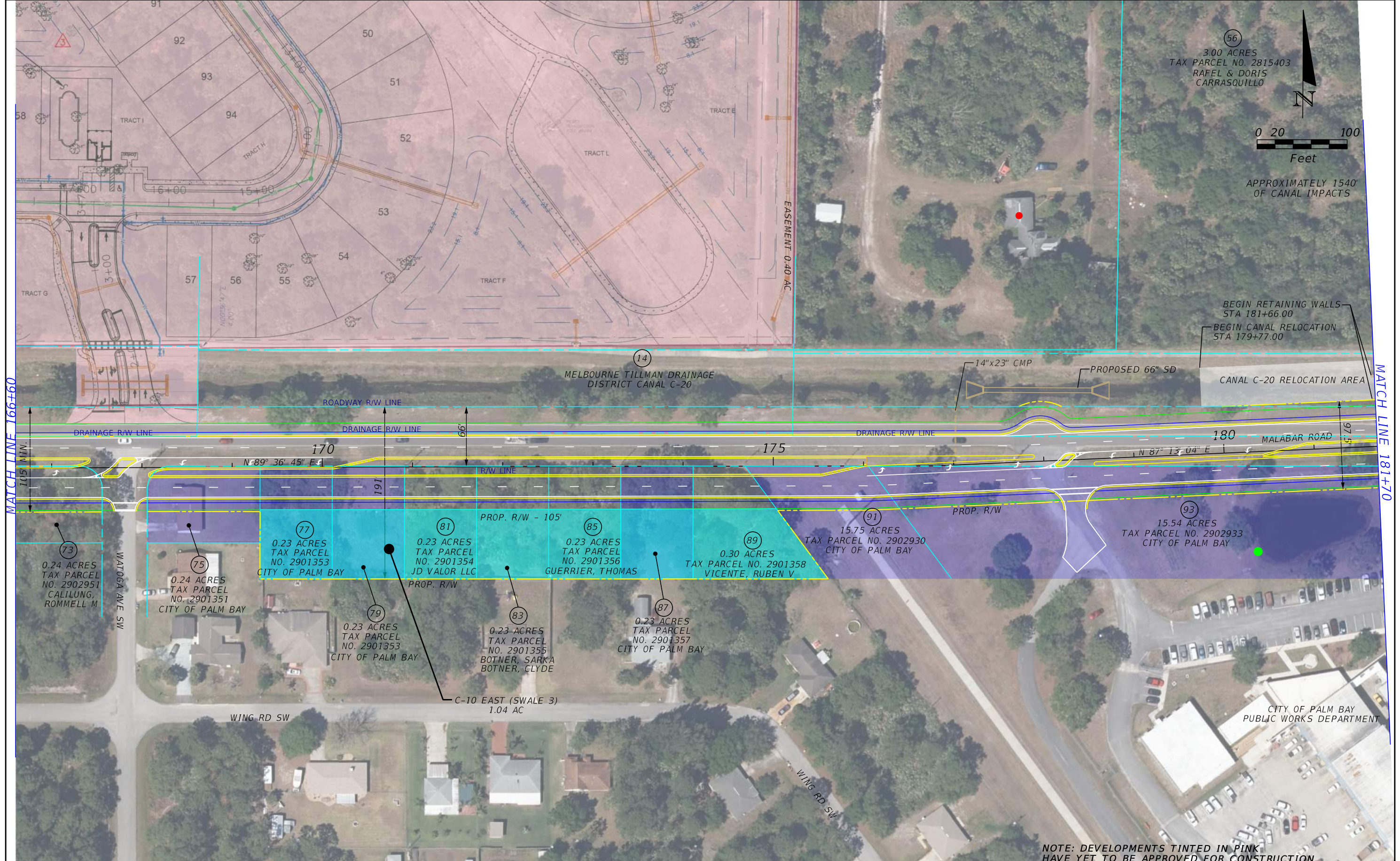


CITY OF PALM BAY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	BREVARD	

**MALABAR ROAD PD&E STUDY  
 PLANSHEET  
 RECOMMENDED  
 PREFERRED ALTERNATIVE**

SHEET NO.
8





(56)  
 3.00 ACRES  
 TAX PARCEL NO. 2815403  
 RAHEL & DORIS  
 CARRASQUILLO

0 20 100  
Feet

APPROXIMATELY 1540'  
OF CANAL IMPACTS

MATCH LINE 166+90

MATCH LINE 181+70

**LEGEND**

	EXISTING PARCEL LINE		MEDIUM RISK CONTAMINATION SITES
	SUBDIVISION PARCEL LINES		CITY ACQUIRED PARCELS
	EXISTING RIGHT OF WAY		FLOODPLAIN
	PROPOSED RIGHT OF WAY		UNAPPROVED DEVELOPMENT
	CITY BOUNDARY		RECOMMENDED PREFERRED POND/SWALE LOCATION
	BUS STOP LOCATIONS		RECOM. PREFERRED FLOODPLAIN COMPENSATION AREA
	POTENTIAL HISTORIC BUILDING		

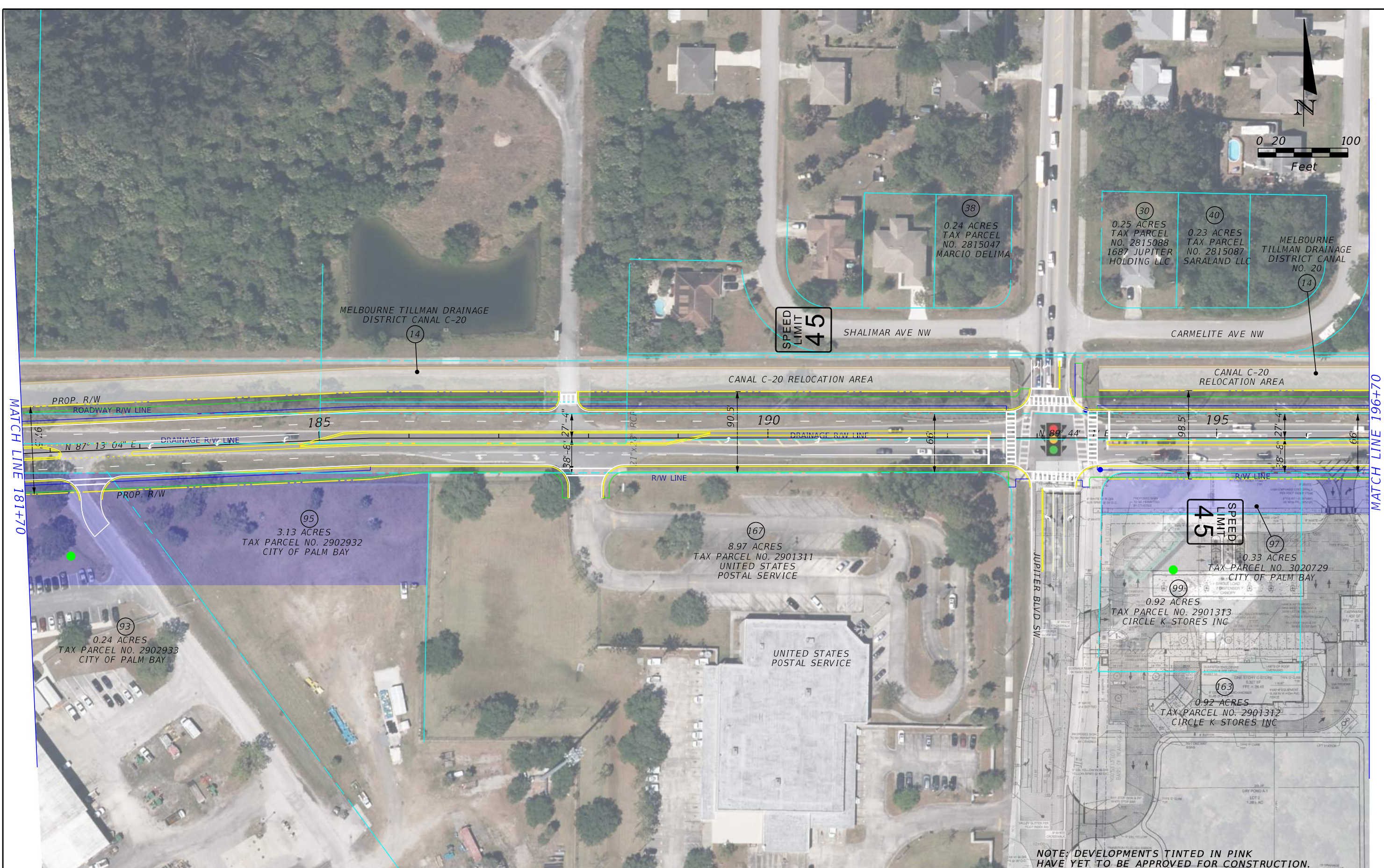
ROAD NO.	COUNTY
175	BREVARD

<b>CITY OF PALM BAY</b>		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
175	BREVARD	

**MALABAR ROAD PD&E STUDY**  
**PLANSHEET**  
**RECOMMENDED**  
**PREFERRED ALTERNATIVE**

SHEET  
 NO.  
 9





LEGEND	
	EXISTING PARCEL LINE
	SUBDIVISION PARCEL LINES
	EXISTING RIGHT OF WAY
	PROPOSED RIGHT OF WAY
	CITY BOUNDARY
	BUS STOP LOCATIONS
	POTENTIAL HISTORIC BUILDING
	MEDIUM RISK CONTAMINATION SITES
	CITY ACQUIRED PARCELS
	FLOODPLAIN
	UNAPPROVED DEVELOPMENT
	RECOMMENDED PREFERRED POND/SWALE LOCATION
	RECOM. PREFERRED FLOODPLAIN COMPENSATION AREA

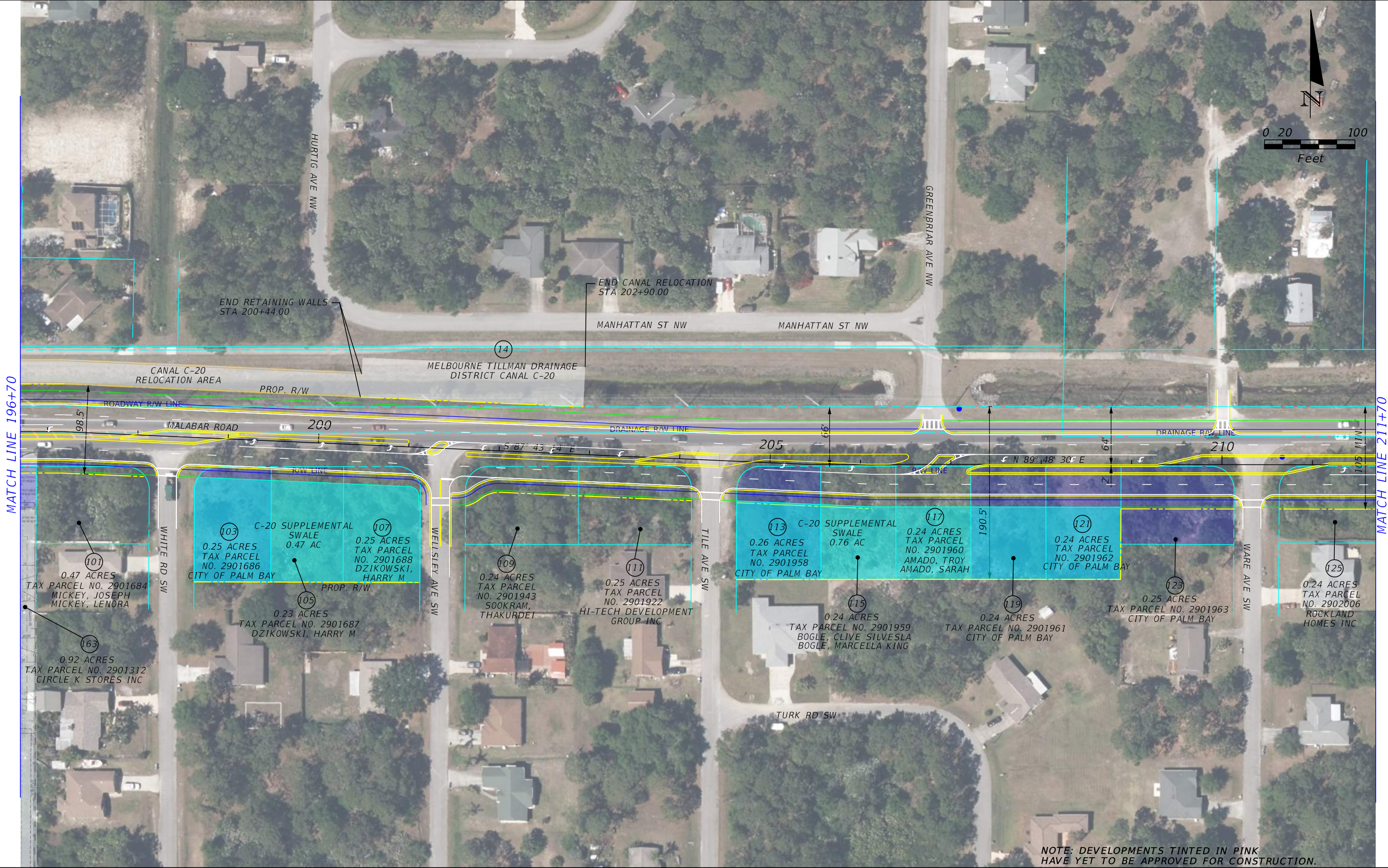
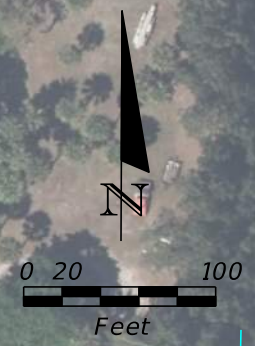


CITY OF PALM BAY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	BREVARD	

**MALABAR ROAD PD&E STUDY  
PLANSHEET  
RECOMMENDED  
PREFERRED ALTERNATIVE**

SHEET NO.
10





MATCH LINE 196+70

MATCH LINE 211+70

**LEGEND**

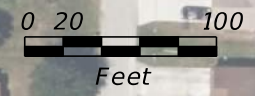
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	SUBDIVISION PARCEL LINES		CITY ACQUIRED PARCELS
	EXISTING RIGHT OF WAY		FLOODPLAIN
	PROPOSED RIGHT OF WAY		UNAPPROVED DEVELOPMENT
	CITY BOUNDARY		RECOMMENDED PREFERRED POND/SWALE LOCATION
	BUS STOP LOCATIONS		RECOM. PREFERRED FLOODPLAIN COMPENSATION AREA
	POTENTIAL HISTORIC BUILDING		

<b>CITY OF PALM BAY</b>	
ROAD NO.	COUNTY
	BREVARD
FINANCIAL PROJECT ID	

<b>MALABAR ROAD PD&amp;E STUDY</b>	
<b>PLANSHEET</b>	
<b>RECOMMENDED</b>	
<b>PREFERRED ALTERNATIVE</b>	

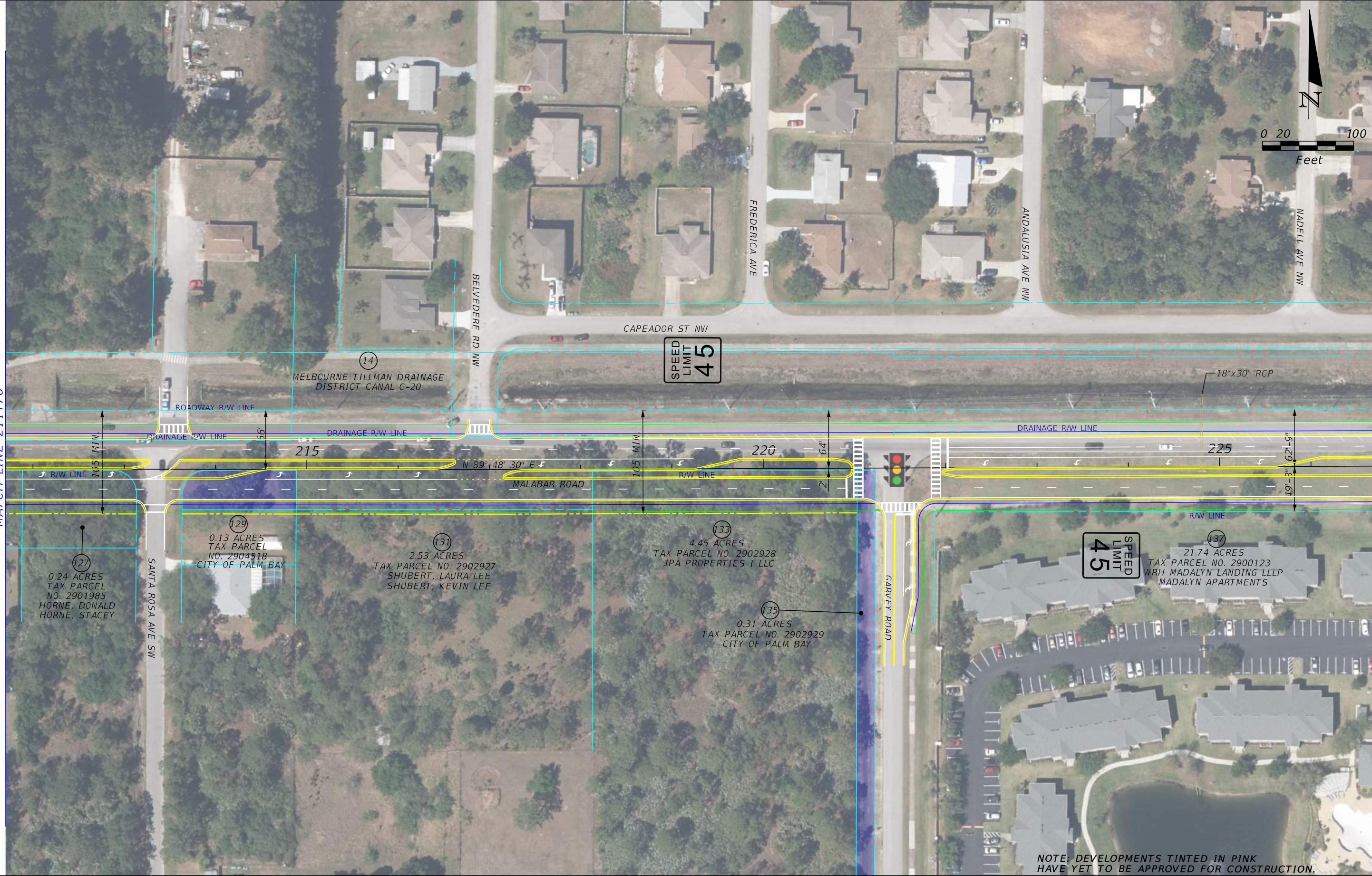
NOTE: DEVELOPMENTS TINTED IN PINK HAVE YET TO BE APPROVED FOR CONSTRUCTION.
SHEET NO.  11





MATCH LINE 211+70

MATCH LINE 226+70



NOTE: DEVELOPMENTS TINTED IN PINK HAVE YET TO BE APPROVED FOR CONSTRUCTION.

**LEGEND**

	EXISTING PARCEL LINE		MEDIUM RISK CONTAMINATION SITES
	SUBDIVISION PARCEL LINES		CITY ACQUIRED PARCELS
	EXISTING RIGHT OF WAY		FLOODPLAIN
	PROPOSED RIGHT OF WAY		UNAPPROVED DEVELOPMENT
	CITY BOUNDARY		RECOMMENDED PREFERRED POND/SWALE LOCATION
	BUS STOP LOCATIONS		RECOM. PREFERRED FLOODPLAIN COMPENSATION AREA
	POTENTIAL HISTORIC BUILDING		

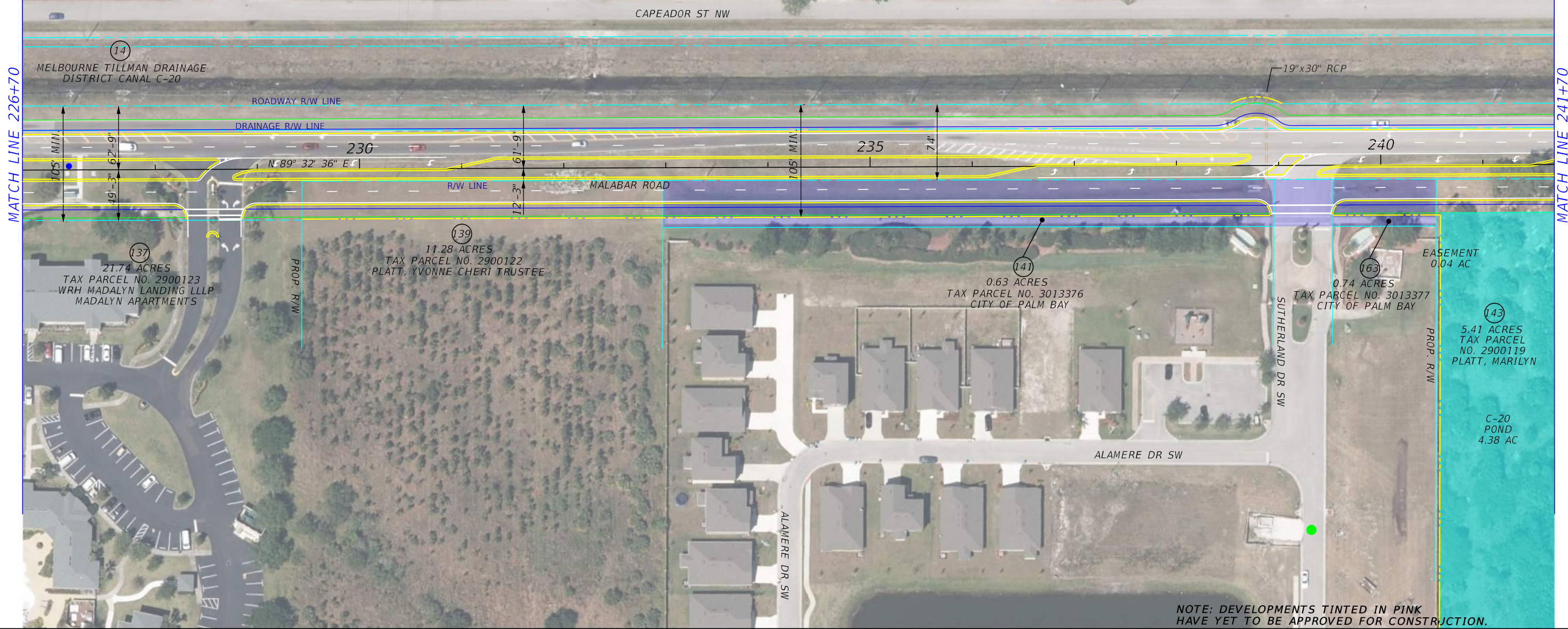


CITY OF PALM BAY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	BREVARD	

**MALABAR ROAD PD&E STUDY  
PLANSHEET  
RECOMMENDED  
PREFERRED ALTERNATIVE**

SHEET NO.  
12





**LEGEND**

	EXISTING PARCEL LINE		MEDIUM RISK CONTAMINATION SITES
	SUBDIVISION PARCEL LINES		CITY ACQUIRED PARCELS
	EXISTING RIGHT OF WAY		FLOODPLAIN
	PROPOSED RIGHT OF WAY		UNAPPROVED DEVELOPMENT
	CITY BOUNDARY		RECOMMENDED PREFERRED POND/SWALE LOCATION
	BUS STOP LOCATIONS		RECOM. PREFERRED FLOODPLAIN COMPENSATION AREA
	POTENTIAL HISTORIC BUILDING		

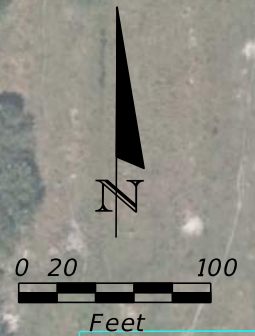
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	BREVARD	

<b>CITY OF PALM BAY</b>		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	BREVARD	

**MALABAR ROAD PD&E STUDY  
PLANSHEET  
RECOMMENDED  
PREFERRED ALTERNATIVE**

SHEET NO.
13





CURVE DATA CL\_MALABAR\_49  
 PI STA. = 243+19.34  
 $\Delta$  = 2° 34' 52" (LT)  
 D = 3° 36' 11"  
 T = 35.83  
 L = 71.64  
 R = 1,590.20  
 PC STA. = 242+83.51  
 PT STA. = 243+55.15

CURVE DATA CL\_MALABAR\_52  
 PI STA. = 244+60.27  
 $\Delta$  = 3° 30' 25" (LT)  
 D = 3° 51' 15"  
 T = 45.51  
 L = 90.99  
 R = 1,486.64  
 PC STA. = 244+14.76  
 PT STA. = 245+05.75

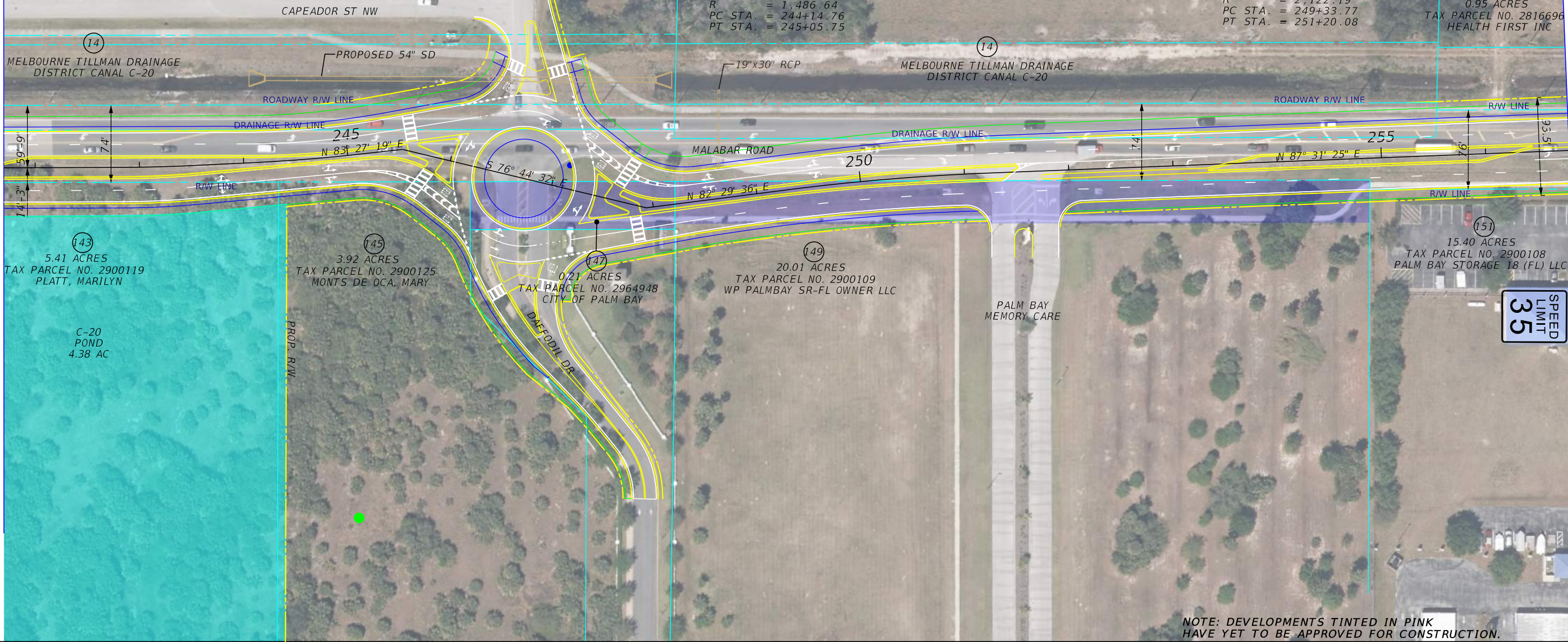
CURVE DATA CL\_MALABAR\_59  
 PI STA. = 250+26.98  
 $\Delta$  = 5° 01' 49" (RT)  
 D = 2° 41' 59"  
 T = 93.22  
 L = 186.32  
 R = 2,122.19  
 PC STA. = 249+33.77  
 PT STA. = 251+20.08

SPEED LIMIT 45

0.95 ACRES  
 TAX PARCEL NO. 2816696  
 HEALTH FIRST INC

MATCH LINE 241+70

MATCH LINE 256+80



143  
 5.41 ACRES  
 TAX PARCEL NO. 2900119  
 PLATT, MARILYN

145  
 3.92 ACRES  
 TAX PARCEL NO. 2900125  
 MONTS DE OCA, MARY

147  
 0.21 ACRES  
 TAX PARCEL NO. 2964948  
 CITY OF PALM BAY

149  
 20.01 ACRES  
 TAX PARCEL NO. 2900109  
 WP PALMBAY SR-FL OWNER LLC

151  
 15.40 ACRES  
 TAX PARCEL NO. 2900108  
 PALM BAY STORAGE 18 (FL) LLC

SPEED LIMIT 35

NOTE: DEVELOPMENTS TINTED IN PINK  
 HAVE YET TO BE APPROVED FOR CONSTRUCTION.

**LEGEND**

	EXISTING PARCEL LINE		MEDIUM RISK CONTAMINATION SITES
	SUBDIVISION PARCEL LINES		CITY ACQUIRED PARCELS
	EXISTING RIGHT OF WAY		FLOODPLAIN
	PROPOSED RIGHT OF WAY		UNAPPROVED DEVELOPMENT
	CITY BOUNDARY		RECOMMENDED PREFERRED POND/SWALE LOCATION
	BUS STOP LOCATIONS		RECOM. PREFERRED FLOODPLAIN COMPENSATION AREA
	POTENTIAL HISTORIC BUILDING		

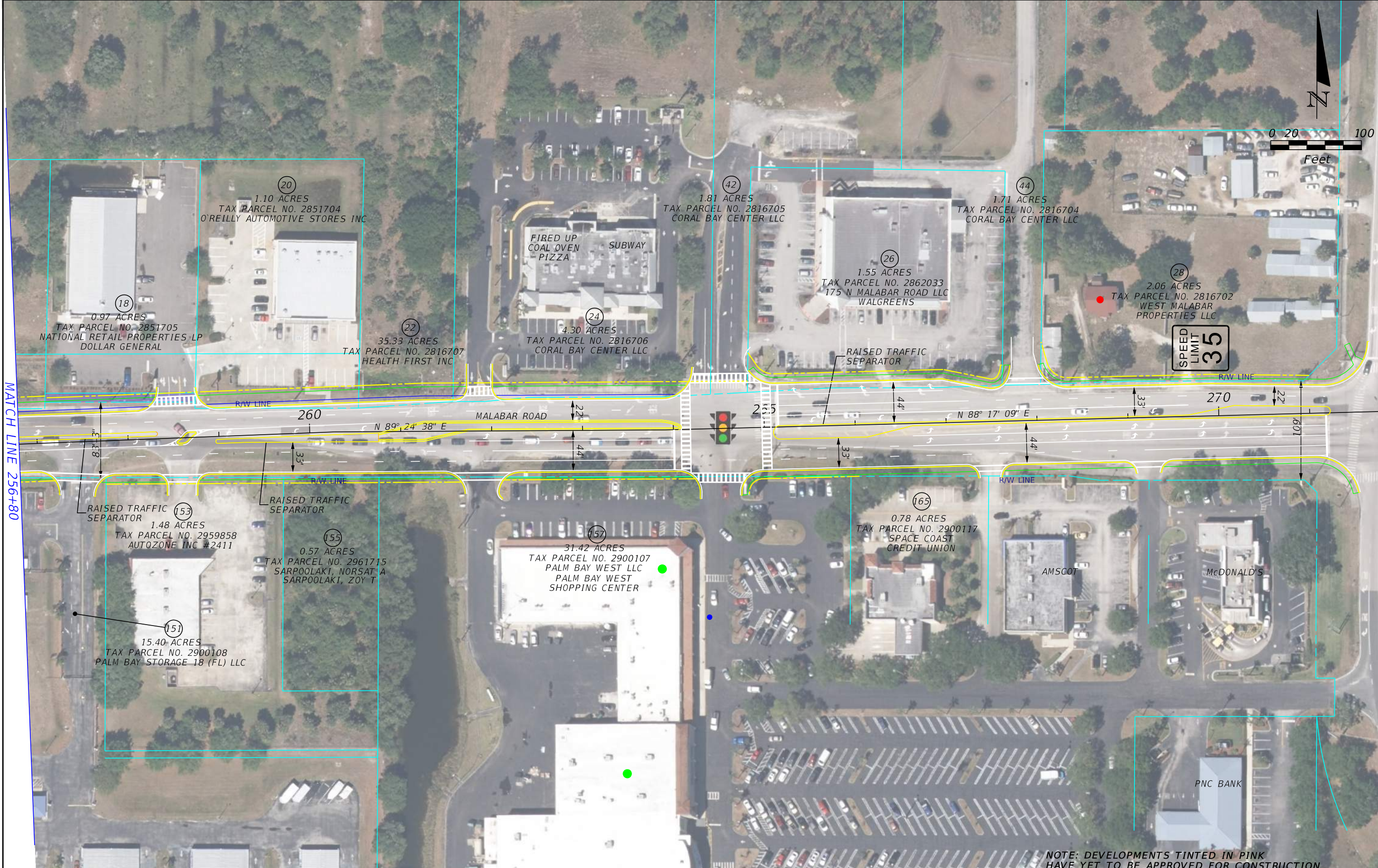


CITY OF PALM BAY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	BREVARD	

**MALABAR ROAD PD&E STUDY  
 PLANSHEET  
 RECOMMENDED  
 PREFERRED ALTERNATIVE**

SHEET NO.  
 14





**LEGEND**

	EXISTING PARCEL LINE		MEDIUM RISK CONTAMINATION SITES
	SUBDIVISION PARCEL LINES		CITY ACQUIRED PARCELS
	EXISTING RIGHT OF WAY		FLOODPLAIN
	PROPOSED RIGHT OF WAY		UNAPPROVED DEVELOPMENT
	CITY BOUNDARY		RECOMMENDED PREFERRED POND/SWALE LOCATION
	BUS STOP LOCATIONS		RECOM. PREFERRED FLOODPLAIN COMPENSATION AREA
	POTENTIAL HISTORIC BUILDING		

ROAD NO.	COUNTY
	BREVARD

CITY OF PALM BAY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	BREVARD	

**MALABAR ROAD PD&E STUDY  
PLANSHEET  
RECOMMENDED  
PREFERRED ALTERNATIVE**

SHEET NO.  
**15**