



Florida Department of  
**TRANSPORTATION**

# **Final Utility Assessment Package**

Florida Department of Transportation (FDOT) District Five

## **St. Johns River to Sea Loop Trail Gap Project Development & Environment (PD&E) Study**

From Lake Beresford Park to Grand Avenue, Volusia County

Financial Project ID (FPID): 439874-1-22-01

Efficient Transportation Decision Making (ETDM) Number: N/A

Prepared by:

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**January 10, 2020**  
[www.fdot.gov](http://www.fdot.gov)

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## 1.0 INTRODUCTION

The Florida Department of Transportation (FDOT) conducted a Project Development and Environment (PD&E) Study for the segment of the St. Johns River to Sea (SJR2C) Loop from Lake Beresford Park to Grand Avenue in Volusia County, Florida. The project study area for this segment shown in **Figure 1** occupies approximately 3.6 square miles. The Class of Action for the PD&E Study is a Non-Major State Action (NMSA).

This portion of the SJR2C Loop Trail will connect existing trails within Lake Beresford Park to the existing section of the SJR2C Loop at the junction of Minnesota and Grand Avenue in the City of Deland.

### 1.1 Purpose of Utilities Assessment Package

This utilities assessment package has been assembled to provide information on existing and planned utilities along SJR2C within the limits described above. This package contains information on the names of utility companies, arials denoting the location of major existing and proposed facilities, descriptions of the identified utilities, project coordination efforts, potential impacts, and information on the cost of relocation.

### 1.2 Existing Corridor Conditions

The corridor stems from the existing trail on the northwest corner of Lake Beresford Park. The corridor proceeds north along natural land adjacent to an existing FDOT railroad to the west. The railroad has major overhead electric utilities.

Alexander Drive is an unpaved road with no visible utilities nor stormwater runoff direction.

South Beresford Road has stormwater runoff to the west and overhead electric wires to the east. The overhead wires switch to the west side near the intersection with West Beresford Avenue.

South Grand Avenue has no overhead utilities and no apparent flush shoulder. Overhead utilities begin on the west side of the road after the intersection with West New York Avenue.

Figure 1 – Project Location Map



### 1.3 Preferred Trail Improvements

The preferred alternative was selected on October 14, 2019. The determination of the preferred alternative was reached after comparing the benefits and impacts of each alignment option. Below is a list of some of the benefits of the selected alternative.

- Provides pedestrian and bicycle facilities in a residential area;
- Does not require the construction of a pedestrian bridge; and
- Connects existing park trails in the area.

The preferred alternative extends from the northwest corner of Lake Beresford Park. It then runs northbound along an existing easement located east of the FDOT railroad. The trail continues north along Alexander Drive, connecting to South Beresford Road. The trail then continues north along Grand Avenue until turning west on Minnesota Avenue to connect to the existing trail which continues to DeLeon Springs. As part of ongoing plans with Volusia County, it was determined that the selection of east, west, or midblock crossing on South Beresford Road will be deferred to final design. Therefore, the naming convention of South Beresford Road Alternative 1 through South Beresford Road Alternative 3 has been assigned. Alternative 1 places the trail on the west side, Alternative 2 places the trail on the east side, and Alternative 3 utilizes a mid-block crossing.

Typical sections for each segment of the preferred alternative are provided in the Typical Section Package included in the PD&E Project Preferred Alternative plan sheets located in **Appendix 4**.

## 2.0 EXISTING UTILITIES

The Utility Agency/Owners (UAOs) in the study area were determined using a Sunshine 811 Design Ticket. The Design Ticket was made to identify the utility providers and operators registered with the local service. Copies of the Sunshine 811 Design Tickets are included in **Appendix 1**. A list of the UAOs identified on the project are summarized in **Table 1**.

**Table 1 – Summary of Utility Contact Information**

Company	Contact	Email/Phone #	Facilities
City of Deland	Jim Ailes	<a href="mailto:ailesj@deland.org">ailesj@deland.org</a> (386)-626-7250	Reclaimed Water, Water, Sewer
Charter Communications	Kevin Galbreath	(813)-684-6100	CATV
Duke Energy	Stephanie Olmo	(407)-905-3376	Electric
Lake Beresford Water Assoc. Inc.	John Stanberry	<a href="mailto:stanberry68@gmail.com">stanberry68@gmail.com</a> (386)-717-3198	Water
MCI	Dean Boyers	(469)-886-4238	Fiber, Communication Lines
AT&T	Dino Farruggio	(561)-997-0240	Telephone

### 2.1 Utility Owners/Providers

All the UAOs were contacted in April of 2019. Base maps were provided to the utility agencies that responded. At the time of utility contact efforts, none of the utility owners reported any future planned facilities or upgrades to existing facilities within the project limits. Owners were asked to provide the location of their utilities on the base map sheets. The correspondences with utility providers are found in **Appendix 2**.

**Table 2 – Existing Utilities and Estimated Relocation Costs**

Description	
City of DeLand	<p>2" steel runs along the north side of Old New York Avenue, then runs north along the west side of Grand Avenue until line reaches junction at south side of intersection of Euclid Avenue W.</p> <p>8" PVC runs along the south side of Old New York Avenue. Then line runs north, crossing Old New York Avenue, along the east side of Grand Avenue until it reaches a junction on the southeast corner of the intersection between Grand Avenue and Euclid Avenue W.</p> <p>8" PVC runs east along the south side of Euclid Avenue, crossing Euclid Avenue before intersecting with Old New York Avenue and CSX RR to the north side of Euclid Avenue before crossing CSX RR then Old New York Avenue before line reaches a junction.</p> <p>4" PVC runs east crossing Grand Avenue and reaches a junction at the southeast corner of the intersection of Grand Avenue and Euclid Avenue W.</p> <p>8" cast iron pipe runs along east side of Grand Avenue until New York Avenue.</p> <p>12" PVC runs on north side of New York Avenue.</p> <p>8" PVC runs on west side of Grand Avenue. It then switches to the east side of Grand Avenue until Minnesota Avenue. It then runs along the south side of Minnesota Avenue.</p> <p>10" ductile iron gas main runs on north side of Old New York Avenue, then turns and runs along the north side of Grand Avenue until Euclid Avenue.</p> <p>8" cast iron gas main runs along the north side of Euclid Avenue and then switches to the south side.</p> <p>8" cast iron gas main runs along the east side of Grand Avenue from Euclid Avenue to New York Avenue. It switches to the west side of Grand Avenue before New York Avenue.</p>
Lake Beresford Water Association Inc.	<p>8" cast iron water main approximately between 2'-3' deep. The line begins at the facility on 995 W. Beresford Road and moves west, crossing S. Beresford Road. The line then turns north and travels along the western side of S. Beresford Road until turning west on Beresford Avenue W. The water main continues west bound to the Hanson Precast facility and beyond.</p>

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### 3.0 UTILITY MITIGATION AND COST

Due to the nature of the existing conditions throughout the project corridor, it is anticipated that the proposed SJR2C Trail improvements will not significantly impact existing utilities.

The trail improvements are shown on the preferred alternative conceptual plans included in **Appendix 4**. Mitigation measures will be taken during the design phase of the project to minimize possible impacts to the existing utilities. If impacts are unavoidable, design alternatives will be reviewed to allow for the 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, all measures will be taken to avoid impacting the existing utility facilities identified in easements. Though relocation of other facilities within the existing right-of-way are anticipated, all efforts will be made during final design to minimize impacts to Florida Power and Light's transmission line.

## **Appendix 1 – Sunshine 811 Design Tickets**

Ticket : 086902997 Rev:000 Taken: 03/27/19 09:29ET

State: FL Cnty: VOLUSIA GeoPlace: DELAND  
 CallerPlace: DELAND  
 Subdivision:

Address :  
 Street : E BERESFORD AVE  
 Cross 1 : W BERESFORD AVE  
 Within 1/4 mile: Y  
 Cross 2 : S GRAND AVENUE

Locat: BOTH SIDES OF S BERESFORD ROAD/GRAND AVE FROM LAKE BERESFORD PARK TO W MINNESOTA AVE

Remarks : IN RESPONSE TO RECEIPT OF A DESIGN TICKET, SSOCOF PROVIDES THE ORIGINATOR OF THE DESIGN TICKET WITH A LIST OF SSOCOF MEMBERS IN THE VICINITY OF THE DESIGN PROJECT. SSOCOF DOES NOT NOTIFY SSOCOF MEMBERS OF THE RECEIPT BY SSOCOF OF A DESIGN TICKET. IT IS THE SOLE RESPONSIBILITY OF THE DESIGN ENGINEER TO CONTACT SSOCOF MEMBERS TO REQUEST INFORMATION ABOUT THE LOCATION OF SSOCOF MEMBERS' UNDERGROUND FACILITIES. SUBMISSION OF A DESIGN TICKET WILL NOT SATISFY THE REQUIREMENT OF CHAPTER 556, FLORIDA STATUTES, TO NOTIFY SSOCOF OF AN INTENT TO EXCAVATE OR DEMOLISH. THAT INTENT MUST BE MADE KNOWN SPECIFICALLY TO SSOCOF IN THE MANNER REQUIRED BY LAW. IN AN EFFORT TO SAVE TIME ON FUTURE CALLS, SAVE YOUR DESIGN TICKET NUMBER IF YOU INTEND TO BEGIN EXCAVATION WITHIN 90 DAYS OF YOUR DESIGN REQUEST. THE DESIGN TICKET CAN BE REFERENCED, AND THE INFORMATION ON IT CAN BE USED TO SAVE TIME WHEN YOU CALL IN THE EXCAVATION REQUEST.

\*\*\* LOOKUP BY MANUAL \*\*\*

:  
 Grids : 2859A8120B 2900A8120A 2900B8120A 2900C8120A 2900D8120A  
 Grids : 2900D8120B 2901A8120A 2901B8120A 2901C8120A 2901D8120A  
 Grids : 2902C8121D 2902D8120A 2902D8121D

Work date: 03/27/19 Time: 09:42ET Hrs notc: 000 Category: 6 Duration: UNKNOWN  
 Due Date : 03/29/19 Time: 23:59ET Exp Date : 04/26/19 Time: 23:59ET  
 Work type: DESIGN Boring: N White-lined: N  
 Ug/Oh/Both: U Machinery: N Depth: UNK Permits: N N/A  
 Done for : DESIGN

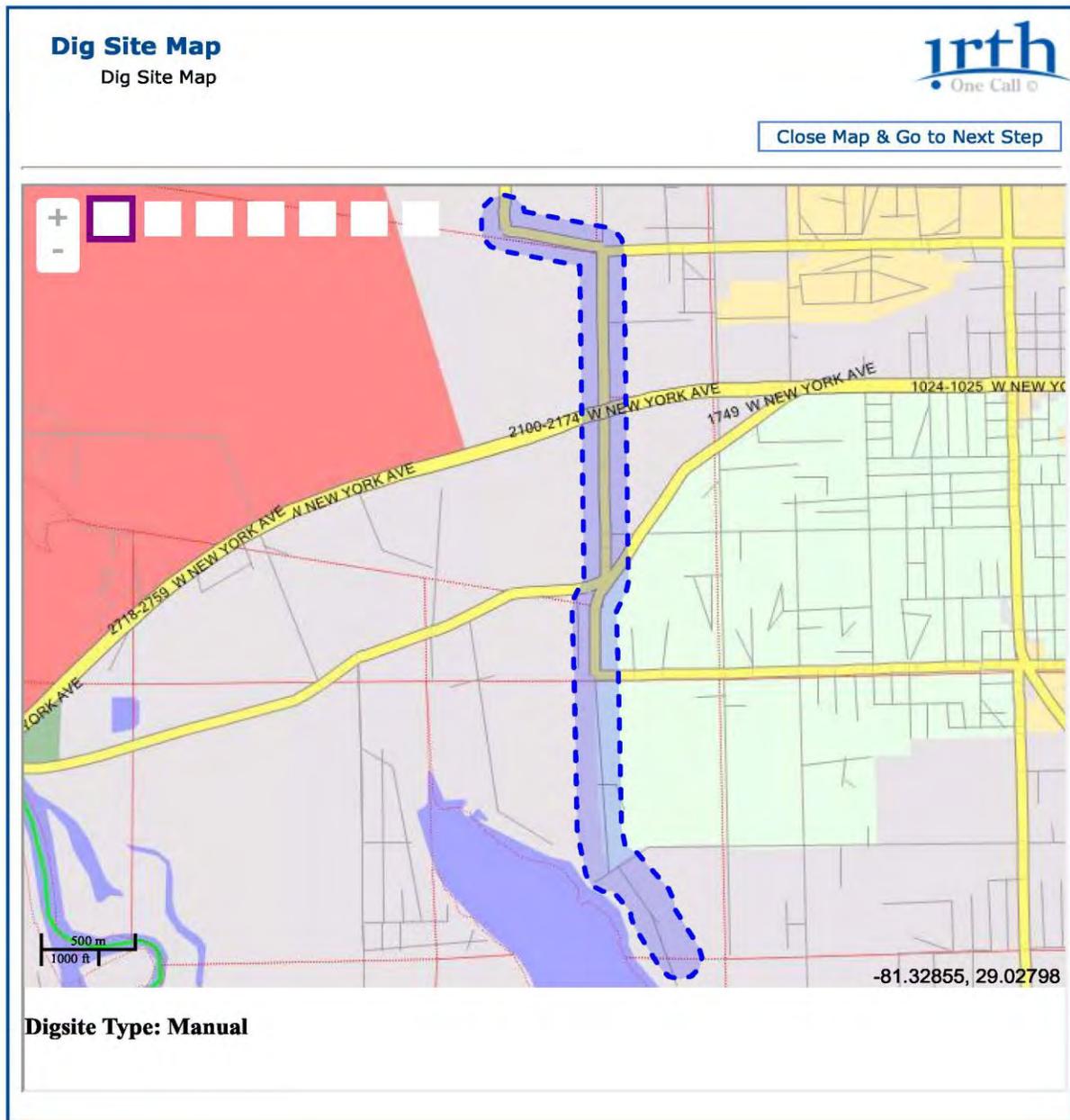
Company : AIM ENGINEERING AND SURVEYING INC Type: CONT  
 Co addr : 3802 CORPOREX PARK DR  
 Co addr2: SUITE 225  
 City : TAMPA State: FL Zip: 33619  
 Caller : JEFFREY JACQUIN Phone: 813-627-4144  
 BestTime: 8-5  
 Email : JJACQUIN@AIMENGR.COM

Submitted: 03/27/19 09:29ET Oper: JEF Chan: WEB  
 Mbrs : COD612 CVITV3 FPC322 LBW770 MCIU01 SB2186 SBF02

Service Area Code	Service Area Name	Contact	Phone Numbers	Utility Type
COD612	CITY OF DELAND	RAYMOND BAHRAMI	Day: (386) 626 - 7189	RECLAIMED WATER, WATER, SEWER
CVITV3	CHARTER COMMUNICATIONS	KEVIN GALBREATH	Day: (813) 684 - 6100	CATV
FPC322	DUKE ENERGY	STEPHANIE	Day: (407) 905 - 3376	ELECTRIC

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		OLMO		
LBW770	LAKE BERESFORD WATER ASSOC. INC.	MARK WHITE	Day: (386) 738 - 2788 Alt: (386) 831 - 8581	WATER
MCIU01	MCI	DEAN BOYERS	Day: (469) 886 - 4238	FIBER, COMMUNICATION LINES
SBF02	A T & T/ DISTRIBUTION	DINO FARRUGGIO	Day: (561) 997 - 0240	TELEPHONE



## **Appendix 2 – Utility Contact Letters**

Hi Brandon,  
Take a look at this map I filled in and see if that's what you need.  
Thanks  
John Stanberry  
LBWA Manager

On Mon, Apr 8, 2019 at 11:50 AM Brandon Mendoza <[bmendoza@aimengr.com](mailto:bmendoza@aimengr.com)> wrote:

Hello John,

The Florida Department of Transportation (FDOT) is conducting a Project Development and Environment (PD&E) study of a proposed shared-use trail from Lake Beresford Park to Grand Avenue in Volusia County. As a part of this study, FDOT will reconstruct portions of existing right-of-way that may impact above and/or below-ground utilities.

We will evaluate potential utility conflicts that may occur as a result of this project and are requesting that you provide us with the location of your existing facilities, utility easements and any proposed facilities along the project corridor. This information will assist us in developing alternatives that minimize impacts of utilities. Please see attached or follow the link below to download plan sheets for your use in marking up your existing facilities. Let me know if you have any difficulties downloading the files.

We are requesting your response by April 29, 2019. Thank you for your time and please feel free to contact me if you have any questions

<https://aim.ftpstream.com/126639/91294225692bb3fab600e1ec2b2eb221/St.%2bJohns%2bRiver%2bto%2bSea%2bLoop%2bTrail%2bBase%2bMaps/BaseMaps.pdf>

Sincerely,

Brandon Mendoza

Brandon Mendoza E.I., Engineering Intern | **AIM Engineering & Surveying, Inc.** |  
813.637.2557 office | 305.815.4317 mobile | [bmendoza@aimengr.com](mailto:bmendoza@aimengr.com)

Good Morning,

As requested per your April 11<sup>th</sup>. 2019 email, the staff has reviewed the work to be performed in this area and the City has "No Objection" to the project as proposed. However, we request you call Sunshine State One to request a utilities location in these areas. Prior to any construction on this project, please contact Mr. Don James, Utilities Construction Engineer, a minimum of forty-eight hours advance-notice prior to starting any work at (386) 626-7175.

Note: If any changes are made in the field, please submit a copy of the as-built plans to the City of DeLand upon completion of the work.

Should you have any questions, please do not hesitate to contact me at (386) 626-7199.  
Thank you.

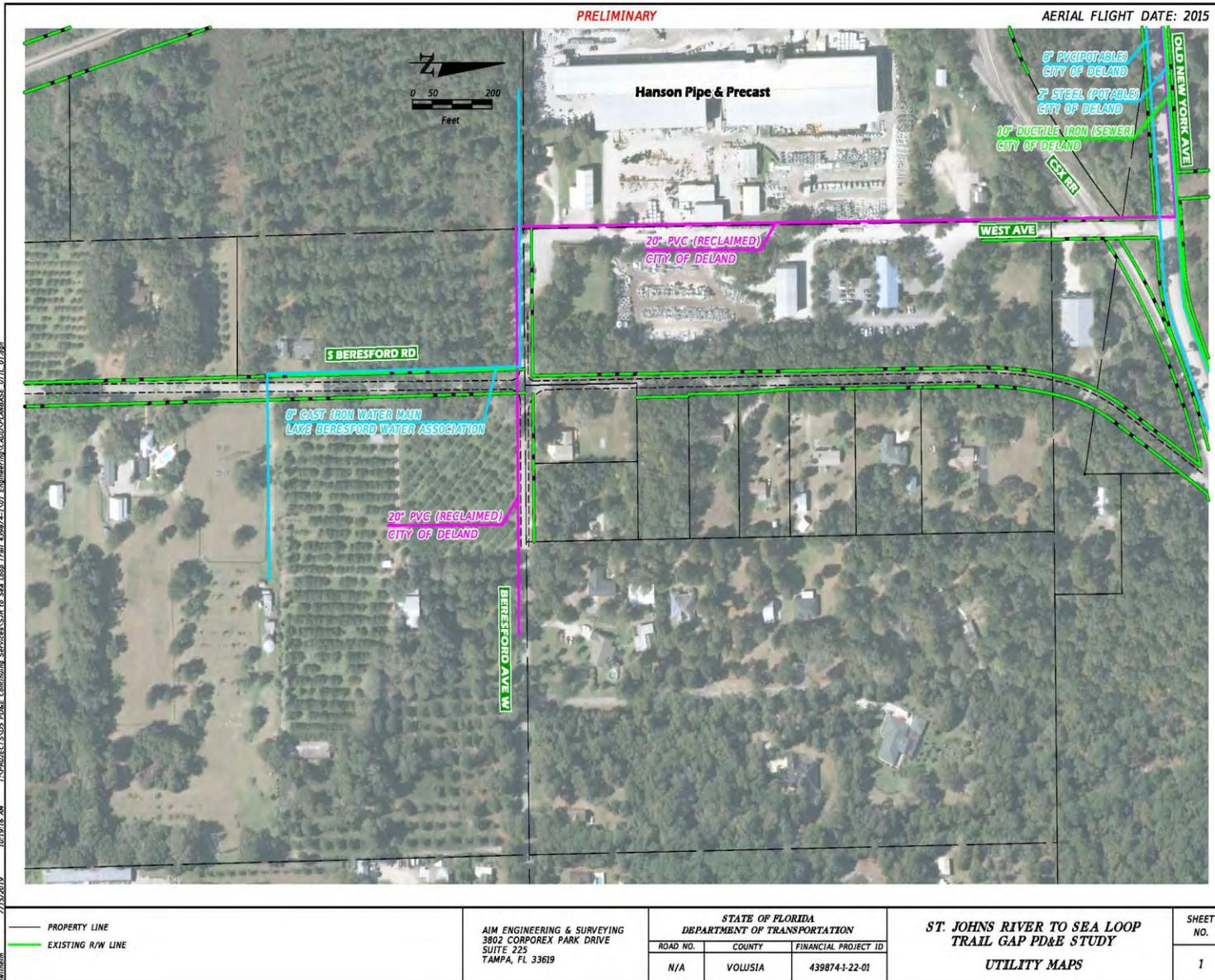
Best Regards,

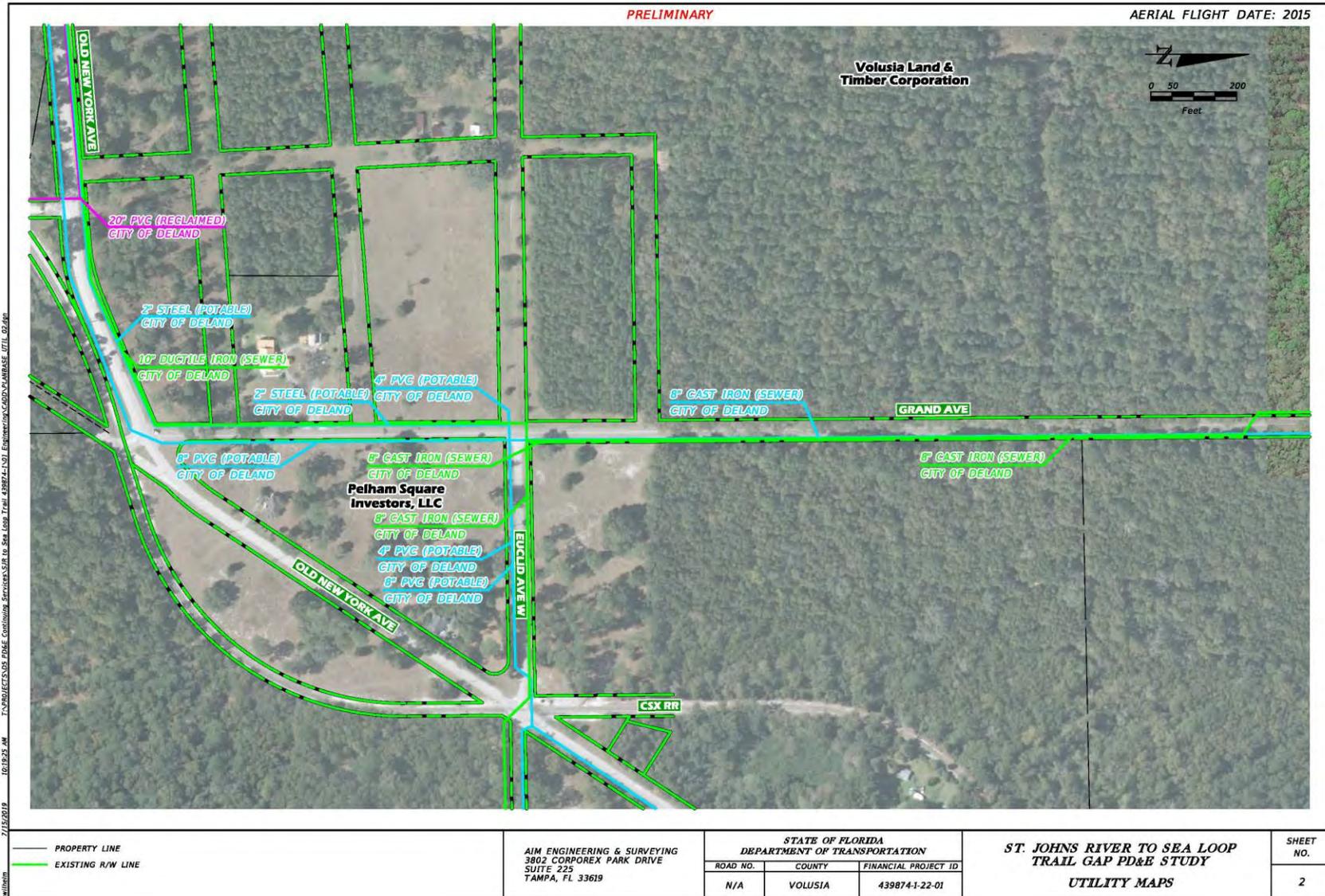
Mark LaGreca  
Senior Engineering Designer  
386-626-7199

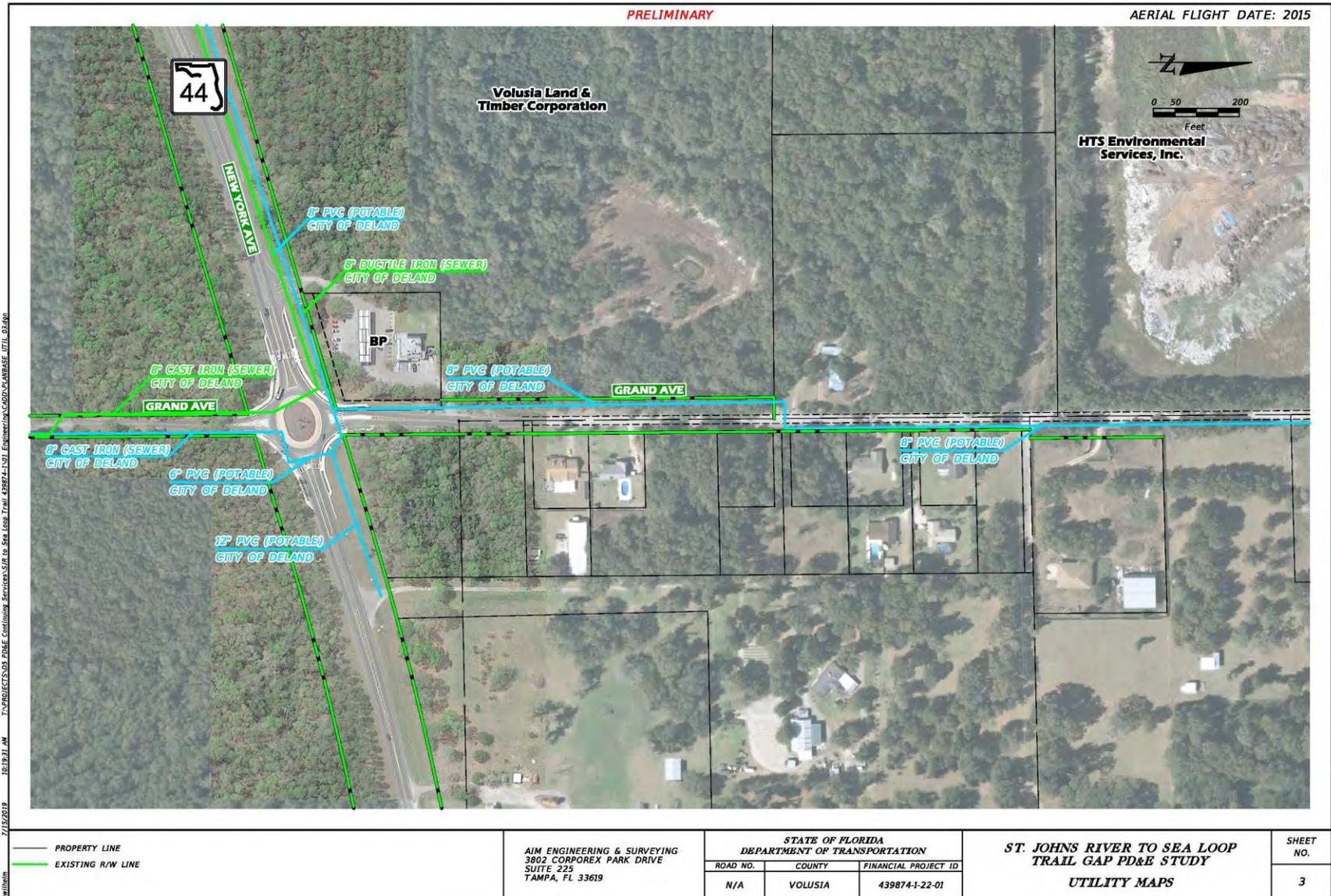


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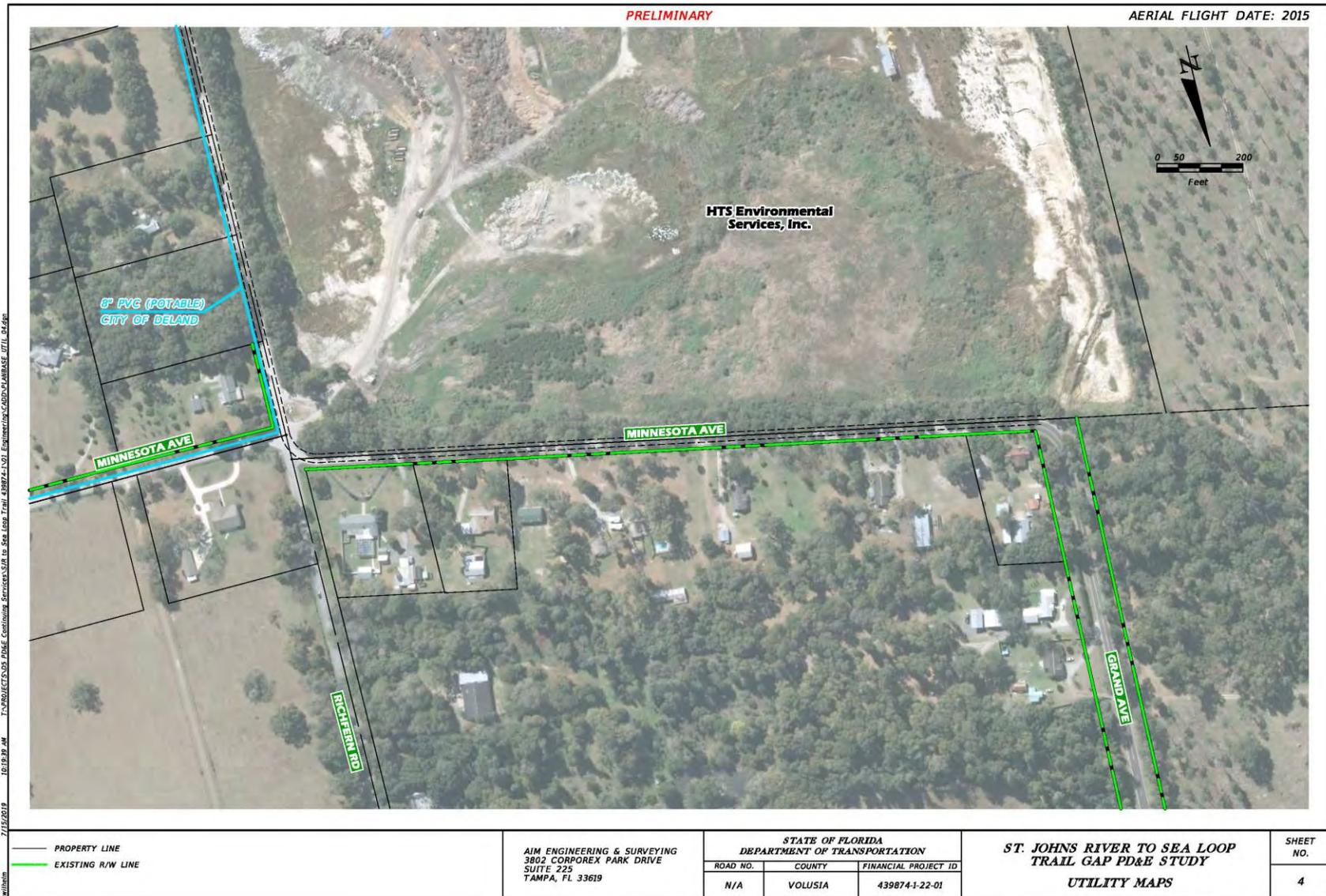
## **Appendix 3 – Utility Maps**







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## **Appendix 4 – PD&E Project Preferred Alternative Plan Sheets**

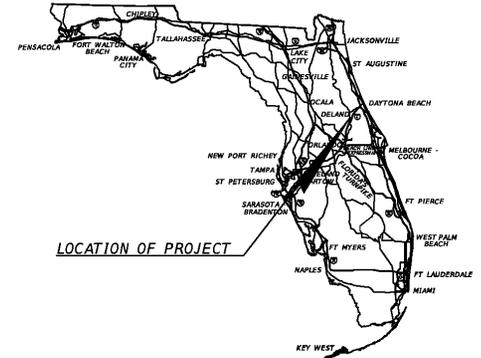
STATE OF FLORIDA  
 DEPARTMENT OF TRANSPORTATION

CONCEPT PLANS

FINANCIAL PROJECT ID 439874-1-22-01

VOLUSIA COUNTY

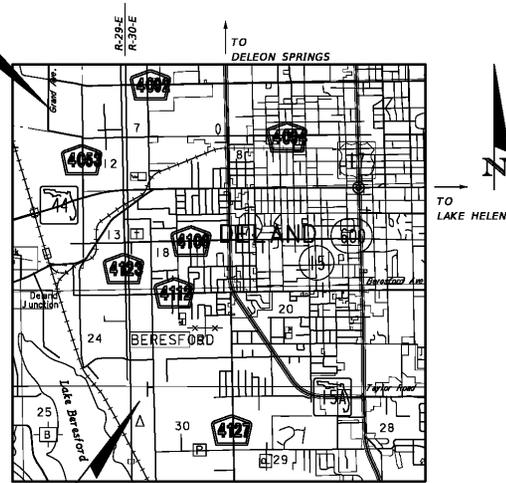
ST. JOHNS RIVER TO SEA LOOP TRAIL GAP PD&E STUDY  
 FROM LAKE BERESFORD PARK TO GRAND AVENUE



END PROJECT  
 GRAND AVE.

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2 - 3	TYPICAL SECTIONS
4 - 8	CONCEPT PLANS



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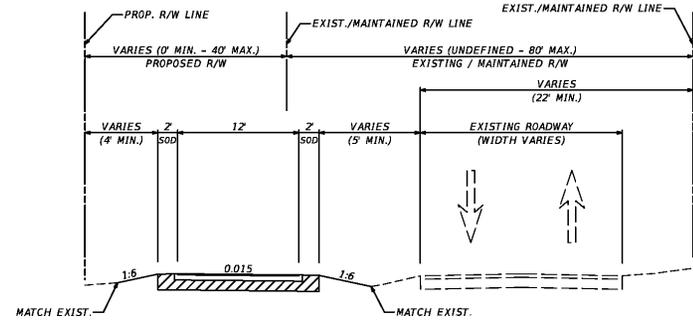
FDOT PROJECT MANAGER:  
 DAVID A. GRAEBER, P.E.

SHEET NO.
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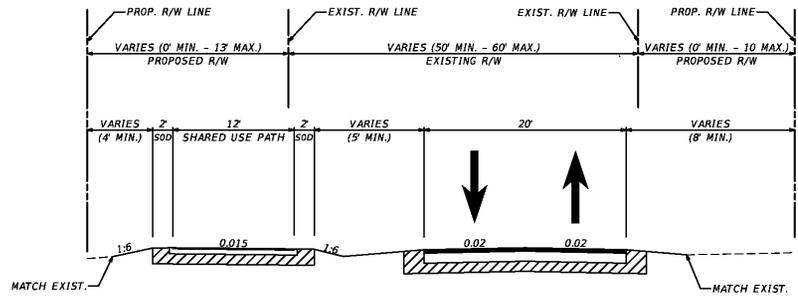
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**TYPICAL SECTION 4**  
 FROM BERESFORD AVENUE W TO OLD NEW YORK AVENUE  
 AND  
 FROM NEW YORK AVENUE (SR 44) TO GRAND AVENUE  
 POSTED SPEED LIMIT: 35 MPH



**TYPICAL SECTION 3**  
 FROM BERESFORD ROAD W TO BERESFORD AVENUE W  
 AND  
 FROM OLD NEW YORK AVENUE TO NEW YORK AVENUE (SR 44)  
 POSTED SPEED LIMIT: 30-35 MPH

AIM ENGINEERING & SURVEYING  
 3802 CORPOREX PARK DRIVE  
 SUITE 225  
 TAMPA, FL 33619

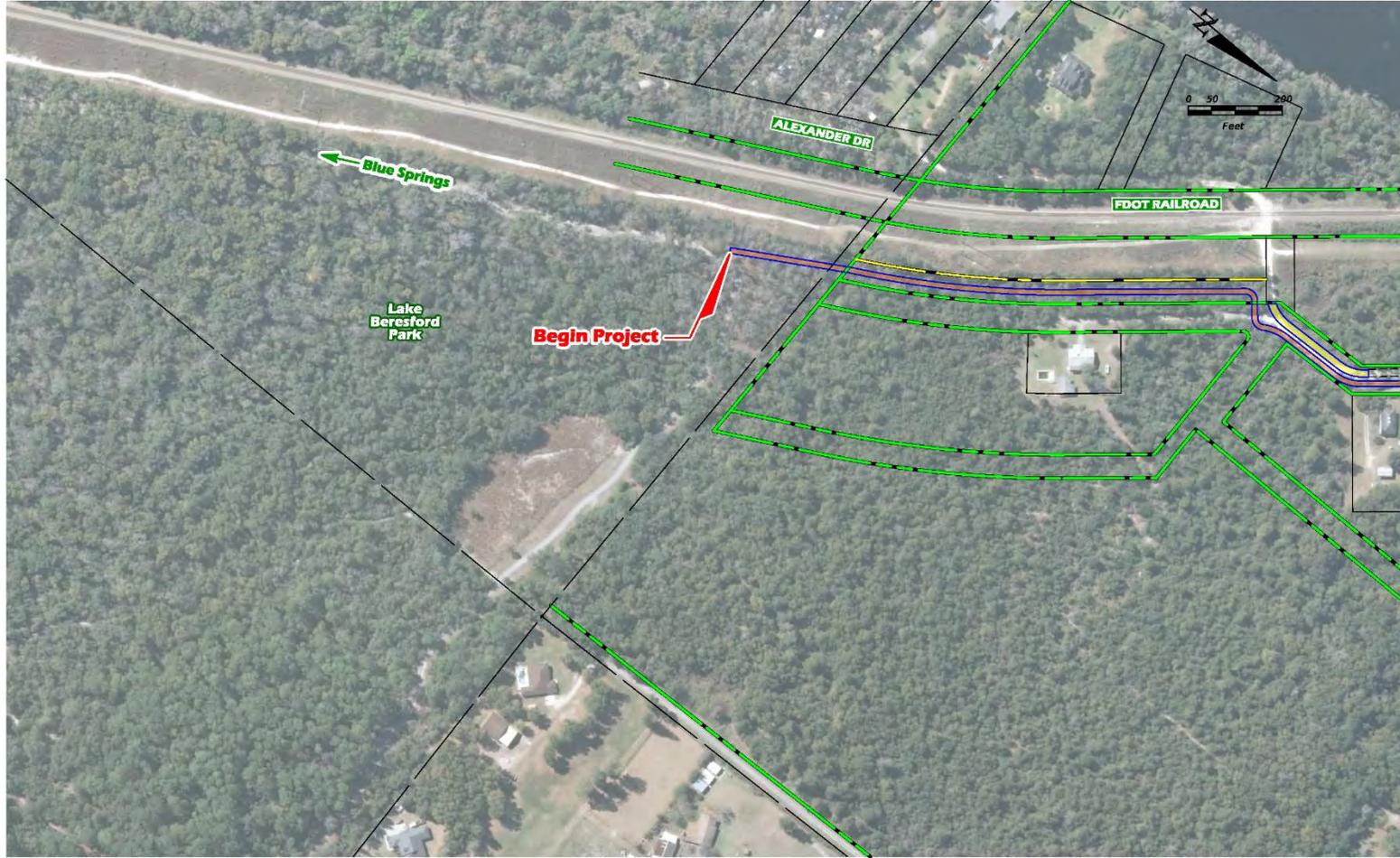
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N/A	VOLUSIA	439874-I-22-01

**ST. JOHNS RIVER TO SEA LOOP  
 TRAIL GAP PD&E STUDY**  
**TYPICAL SECTIONS**

SHEET NO.
3

PRELIMINARY

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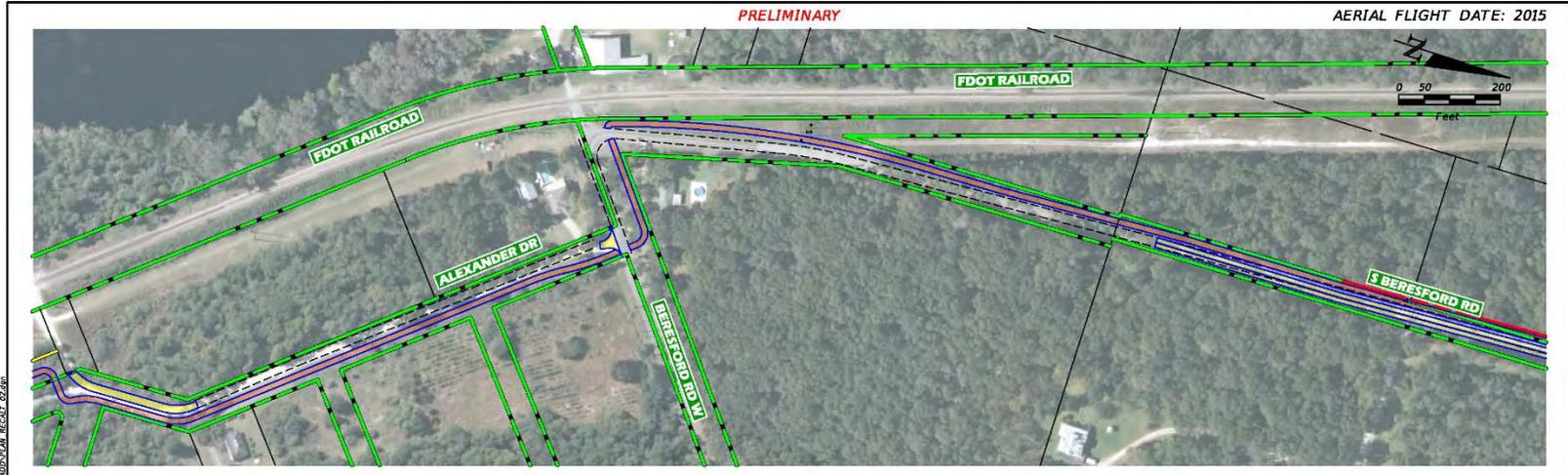
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---	EXISTING R/W LINE	---	PROPOSED TRAIL
---	PROPOSED R/W LINE	---	PROPOSED ROADWAY RECONSTRUCTION

AIM ENGINEERING & SURVEYING  
 3802 CORPOREX PARK DRIVE  
 SUITE 225  
 TAMPA, FL 33619

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
N/A	VOLUSIA	439874-1-22-01

**ST. JOHNS RIVER TO SEA LOOP  
 TRAIL GAP PD&E STUDY**  
 CONCEPT PLANS

SHEET NO.
4



**S. BERESFORD ROAD ALTERNATIVE 1**

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- PROPOSED R/W LINE
- EXISTING EASEMENT LINE
- PROPOSED TRAIL
- PROPOSED ROADWAY RECONSTRUCTION

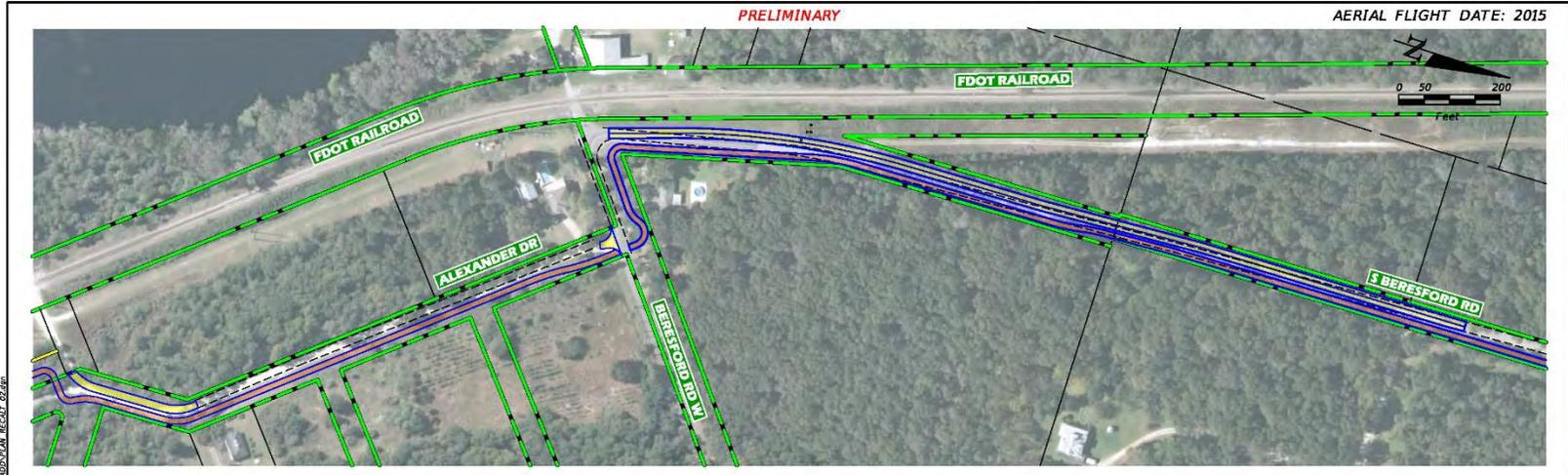
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
N/A	VOLUSIA	439874-1-22-01

**ST. JOHNS RIVER TO SEA LOOP  
 TRAIL GAP PD&E STUDY**  
 CONCEPT PLANS

SHEET NO.  
5A

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**S. BERESFORD ROAD ALTERNATIVE 2**

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---	EXISTING R/W LINE	---	PROPOSED TRAIL
---	PROPOSED R/W LINE	---	PROPOSED ROADWAY RECONSTRUCTION

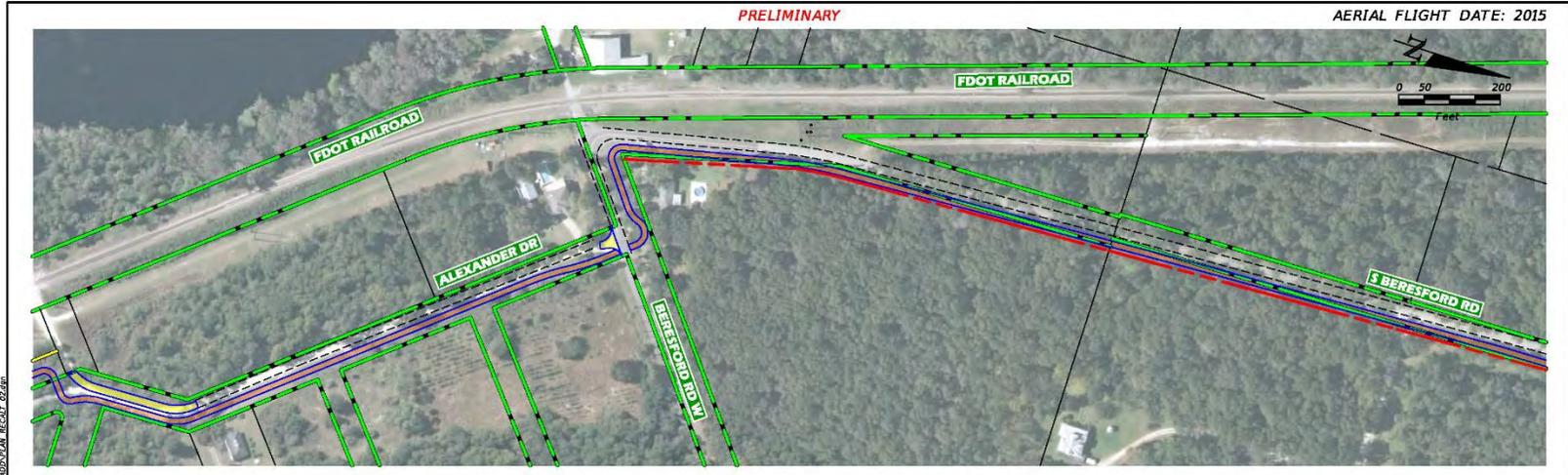
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 SUITE 225  
 TAMPA, FL 33619

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
N/A	VOLUSIA	439874-1-22-01

**ST. JOHNS RIVER TO SEA LOOP  
 TRAIL GAP PD&E STUDY**  
 CONCEPT PLANS

SHEET NO.
5B

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**S. BERESFORD ROAD ALTERNATIVE 3**

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- EXISTING R/W LINE
- PROPOSED R/W LINE
- EXISTING EASEMENT LINE
- PROPOSED TRAIL
- PROPOSED ROADWAY RECONSTRUCTION

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 SUITE 225  
 TAMPA, FL 33619

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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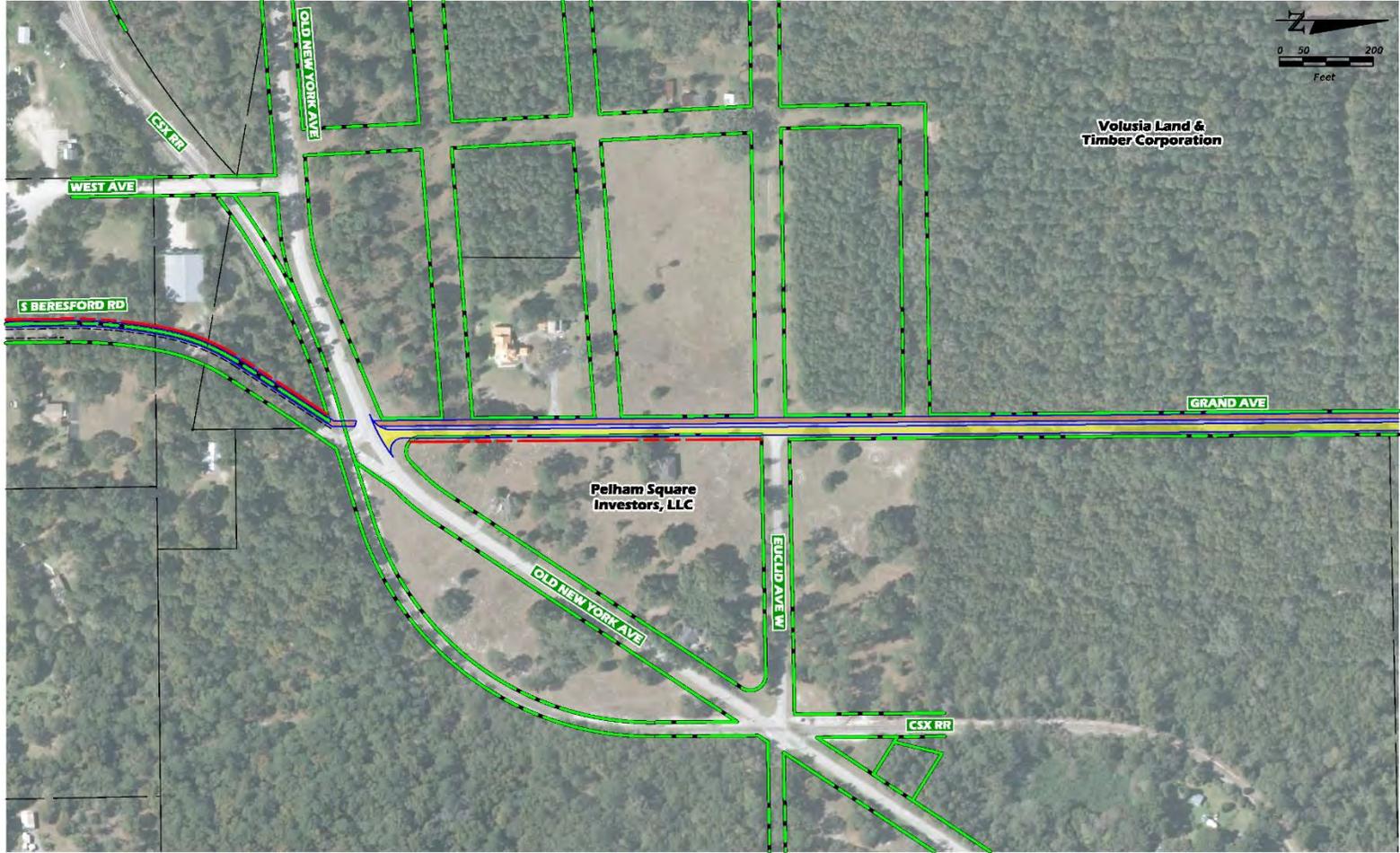
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 TRAIL GAP PD&E STUDY**  
 CONCEPT PLANS

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PRELIMINARY

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- PROPERTY LINE
- EXISTING R/W LINE
- PROPOSED R/W LINE
- EXISTING EASEMENT LINE
- PROPOSED TRAIL
- PROPOSED ROADWAY RECONSTRUCTION

AIM ENGINEERING & SURVEYING  
 3802 CORPOREX PARK DRIVE  
 SUITE 225  
 TAMPA, FL 33619

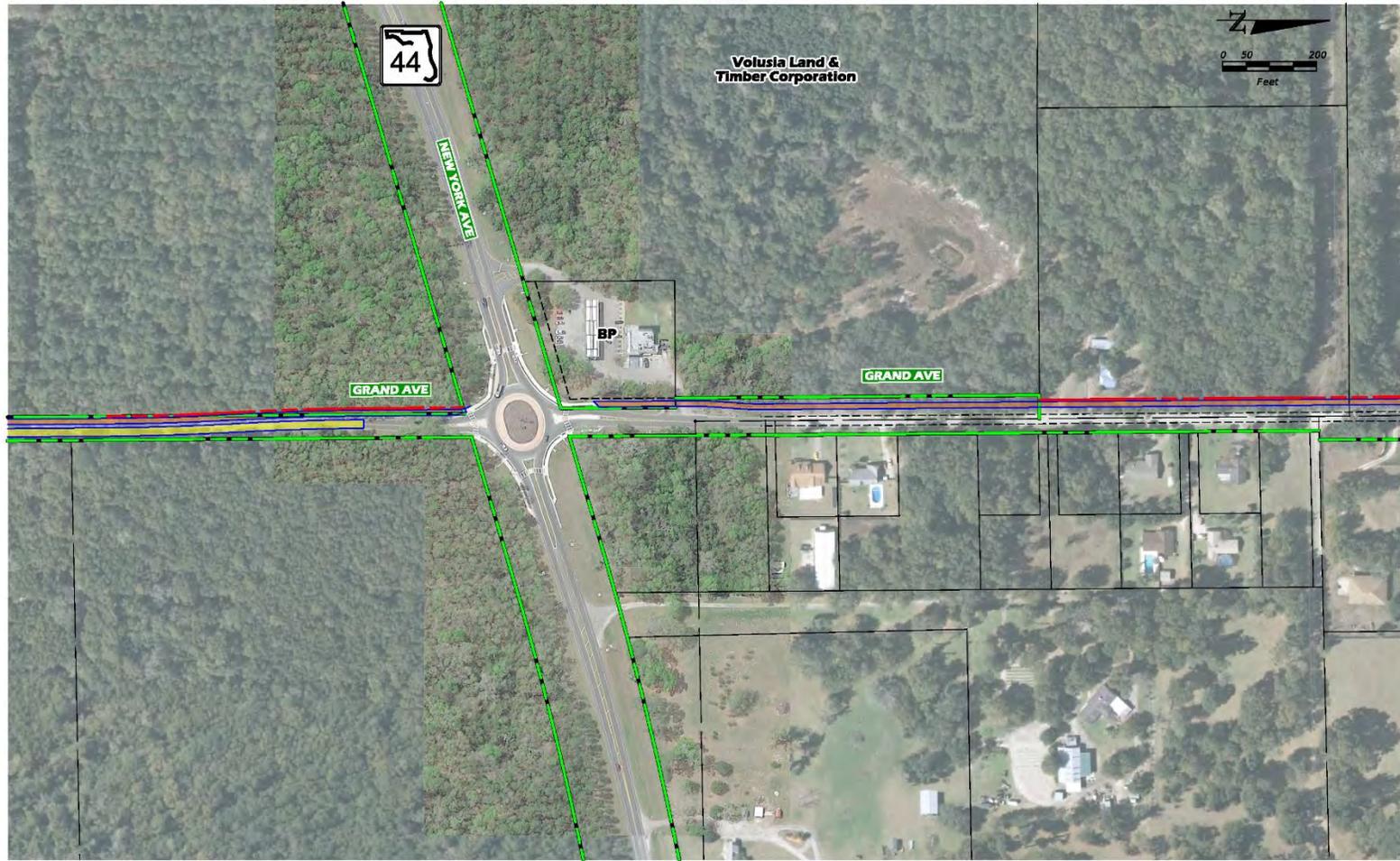
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
N/A	VOLUSIA	439874-1-22-01

**ST. JOHNS RIVER TO SEA LOOP  
 TRAIL GAP PD&E STUDY**  
 CONCEPT PLANS

SHEET NO.
6

PRELIMINARY

AERIAL FLIGHT DATE: 2015



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PROPERTY LINE	EXISTING EASEMENT LINE
EXISTING R/W LINE	PROPOSED TRAIL
PROPOSED R/W LINE	PROPOSED ROADWAY RECONSTRUCTION

AIM ENGINEERING & SURVEYING  
 3802 CORPOREX PARK DRIVE  
 SUITE 225  
 TAMPA, FL 33619

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
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N/A	VOLUSIA	439874-1-22-01

**ST. JOHNS RIVER TO SEA LOOP  
 TRAIL GAP PD&E STUDY**  
 CONCEPT PLANS

SHEET NO.
7

PRELIMINARY

AERIAL FLIGHT DATE: 2015



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- PROPERTY LINE
- EXISTING R/W LINE
- PROPOSED R/W LINE
- EXISTING EASEMENT LINE
- PROPOSED TRAIL
- PROPOSED ROADWAY RECONSTRUCTION

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**ST. JOHNS RIVER TO SEA LOOP  
 TRAIL GAP PD&E STUDY**  
 CONCEPT PLANS

SHEET  
 NO.  
 8

