

FINAL – Utility Assessment Package

for

Project Development and Environment (PD&E) Study Poinciana Parkway Extension (CR 538) from Poinciana Parkway to CR 532

Osceola and Polk Counties, Florida

CFX Project Number: 599-224

Prepared for:

**CENTRAL
FLORIDA
EXPRESSWAY
AUTHORITY**

Prepared By:

Inwood Consulting Engineers, Inc.

July 2019

TABLE OF CONTENTS

	<u>PAGE</u>
1.0 INTRODUCTION	3
1.1 PURPOSE OF UTILITIES ASSESSMENT PACKAGE	3
1.2 EXISTING ROADWAY FACILITIES.....	3
1.3 PROPOSED BUILD ALTERNATIVES	5
2.0 EXISTING UTILITIES.....	7
2.1 UTILITY OWNERS/PROVIDERS	7
3.0 UTILITY MITIGATION AND COST	10

FIGURES

Figure 1: Regional Location Map	4
Figure 2: Build Alternatives.....	5
Figure 3: Proposed Poinciana Parkway Typical Section.....	6

TABLES

Table 1: Existing Utilities and Estimated Relocation Costs of Major Facilities.....	8-9
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APPENDICES

Appendix 1	Sunshine 811 Design Tickets
Appendix 2	Utility Coordination
Appendix 3	Utility Responses/Information
Appendix 4	PD&E Project Recommended Alternative

1.0 INTRODUCTION

The Poinciana Parkway Extension is a proposed tolled expressway improvement project that includes extending Poinciana Parkway, from the northern end of the existing bridge over the Reedy Creek Mitigation Bank to CR 532 (Osceola Polk Line Road). The study area of this Project Development and Environment (PD&E) Study includes portions of Osceola County and Polk County, Florida. Regional location map is provided on **Figure 1**. The Poinciana Parkway Extension is approximately 3 miles in length.

1.1 Purpose of Utilities Assessment Package

This utilities assessment package has been assembled to provide information on existing and planned utilities along potential Poinciana Parkway Extension alignments within the limits described above. Identifying major utility facilities and the impacts to these facilities with the alternatives evaluated is the focus of this package. 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 Project Description

Previous studies have been conducted by the former Osceola County Expressway Authority (OCX), Florida Department of Transportation (FDOT), and by the Central Florida Expressway Authority (CFX). Most recently, CFX conducted a Concept, Feasibility & Mobility Study for the Poinciana Parkway Extension/ I-4 Connector. From this study, the CFX Board determined that a phased implementation of an expressway from the Poinciana Parkway to CR 532 was viable and authorized to move to the PD&E Study phase. Three corridors from the Concept, Feasibility & Mobility Study were advanced for further study as described in in the Project Preliminary Engineering Report.

The Poinciana Parkway Extension PD&E Study includes an evaluation of alternatives to extend the existing Poinciana Parkway (SR 538) from the existing bridge over the Reedy Creek Mitigation Bank to CR 532. The project is a proposed tolled 4-lane expressway within approximately 330 feet of right-of-way (ROW). This ROW width provides for future expansion for additional lanes and/or other multi-modal travel options if needed in the future. The project also includes interchanges with other county and state roads, bridges over wetlands in the Reedy Creek Mitigation Bank and South Florida Water Management District (SFWMD) owned/managed Upper Lakes Basin Watershed habitat, as well as bridges over local roads and railroads. Stormwater management facilities are also being considered.

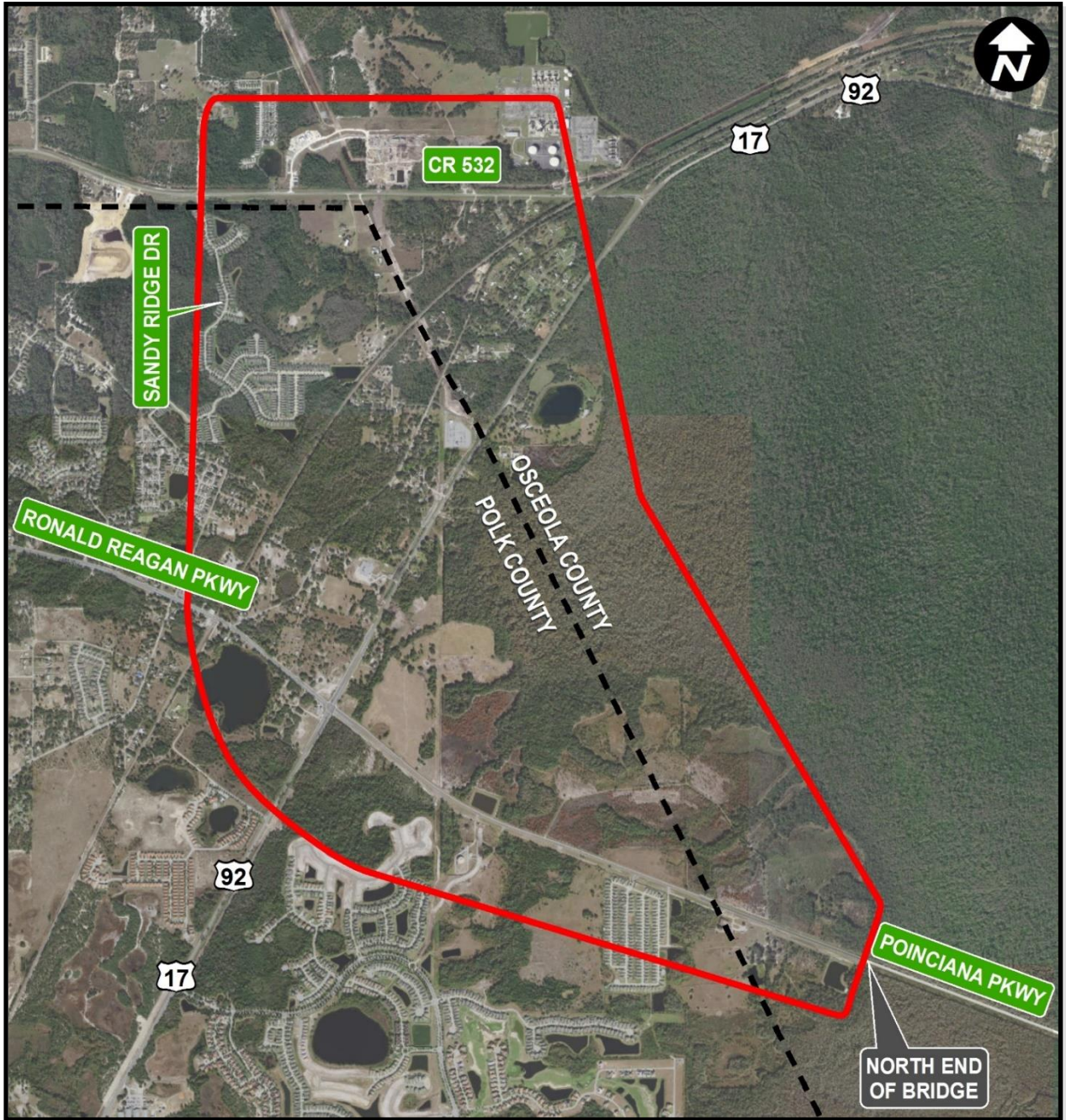


Figure 1: Regional Location Map

1.3 Proposed Build Alternatives

Several studies have been conducted to date to define corridors and potential build alternatives for this project. For this PD&E Study, the build alternatives have been refined based on input from the public, the Project Advisory Group (PAG), the Environmental Advisory Group (EAG), and other local stakeholders. The three build alternatives being evaluated are illustrated on **Figure 2**.

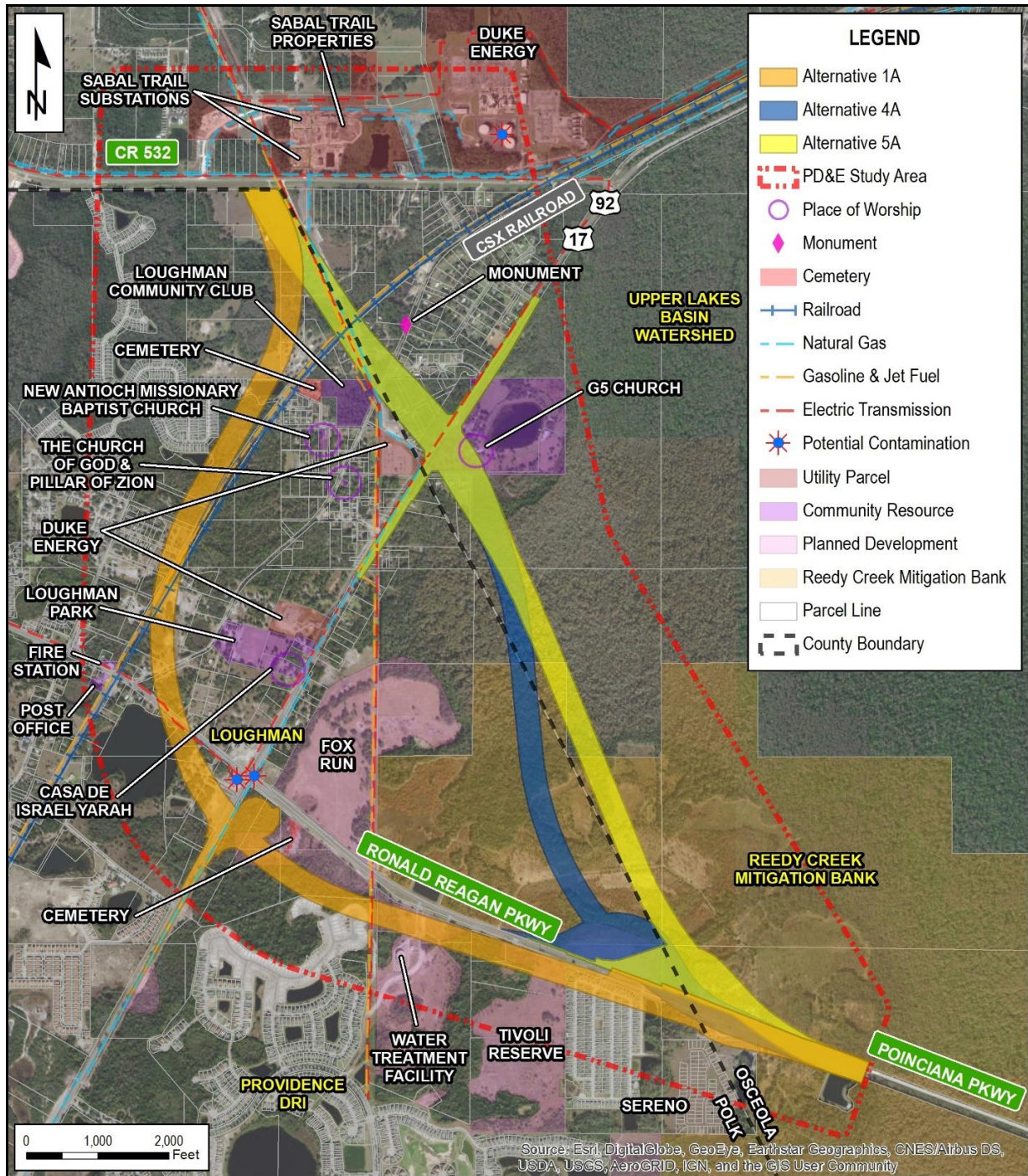


Figure 2: Build Alternatives

Of the three alternatives evaluated, 5A without slip ramps to Ronald Reagan was identified as the preferred alternative for the Poinciana Parkway Extension.

Alternative 5A travels northwesterly through the Reedy Creek Mitigation Bank in Osceola County and the SFWMD’s Upper Lakes Basin Watershed before crossing over US 17/92 approximately one mile north of its intersection with Ronald Reagan Parkway. The alternative continues northward crossing over Old Tampa Highway and the CSX railroad before connecting with CR 532 just west of the Polk County/Osceola County line. This alternative requires utility relocations from along the Polk County/Osceola County line to just west of the expressway alignment.

This alternative includes bridging over the wetlands within the Reedy Creek Mitigation Bank and the Upper Lakes Basin Watershed.

A single point urban interchange is provided with US 17/92. An at-grade intersection is provided with CR 532.

The proposed typical section, as illustrated on **Figure 3**, is 330 feet wide consisting of two 12-foot lanes in each direction with a 92-foot median (that can accommodate additional lanes and/or a potential multimodal corridor) and 95-foot borders on each side.

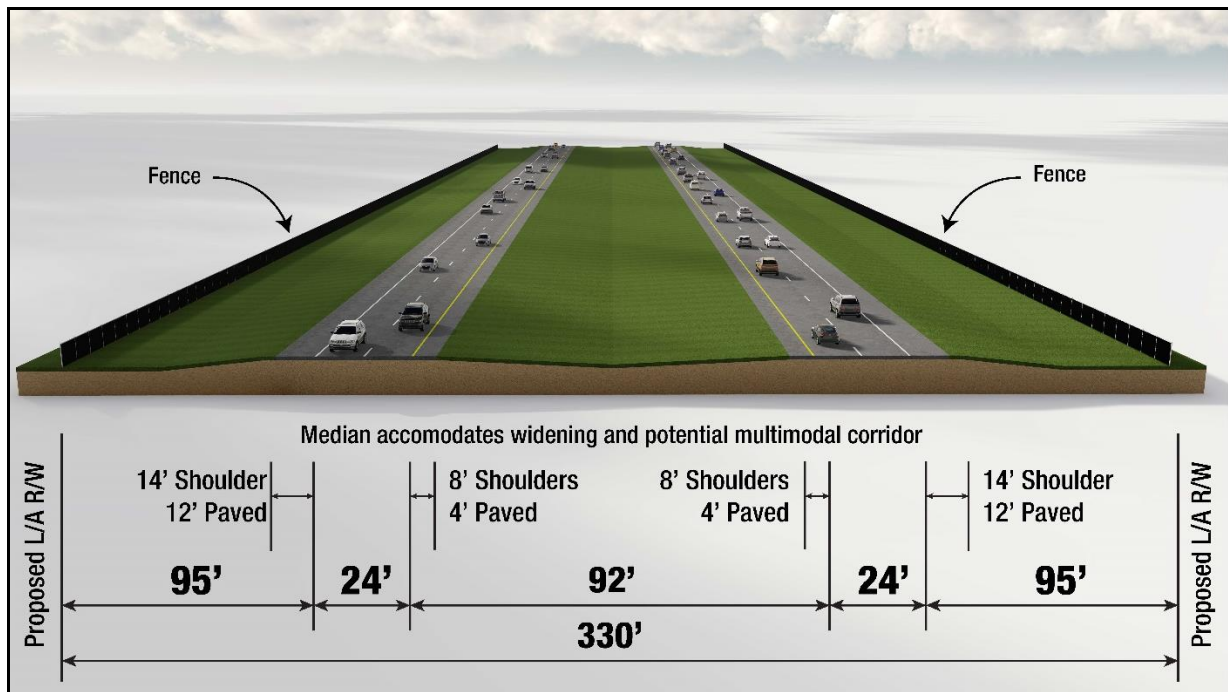


Figure 3: Proposed Poinciana Parkway Extension Typical Section

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 created for Osceola and Polk Counties to identify the utility providers and operators registered with the locate service. The Sunshine 811 Design Tickets for the project are included in **Appendix 1**. Next, the project was visited, and field investigations and observations were made. All above ground utility features, including poles, hydrants, valve boxes, and manholes, were noted and verified with the utility providers and operators during the coordination process for the project. The final source of data collection was from past FDOT and/or County plans along or adjacent to the Poinciana Parkway Extension study area. The UAOs identified on the project, description of their existing facilities, and estimate of relocation cost of major facilities based on Alternative 5A without slip ramps are summarized in **Table 1**.

2.1 Utility Owners/Providers

Major utility providers and operators were contacted in September of 2018 and were provided conceptual plans and alternatives for review. Copy of this coordination meeting can be found in **Appendix 2**. Based on the conceptual plans, they were asked to assist in locating and identifying their existing and planned facilities within the area of study. They were also asked to provide an estimated cost for relocation of their facilities. 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 information regarding the major utilities from the utility providers is found in **Appendix 3**.

Table 1: Existing Utilities and Estimated Relocation Costs of Major Facilities

Company	Description	Relocation Cost
CenturyLink	<ul style="list-style-type: none"> Fiber and phone facilities within the study corridor. Phone facilities are primarily aerial and attached to existing power company pole lines with buried fiber throughout the study area. 	TBD
Charter Communications	<ul style="list-style-type: none"> Aerial cable and phone attached to existing power company pole lines with buried service drops to customers. 	TBD
Comcast Communications	<ul style="list-style-type: none"> Cable within the study corridor. Facilities are primarily aerial and attached to existing power company pole lines with buried service drops to customers. 	TBD
Duke Energy-Distribution	<ul style="list-style-type: none"> Electric distribution service throughout the project. 	TBD
Duke Energy-Transmission	<ul style="list-style-type: none"> Intercession City Power Plant on the north side of CR 532 just west of US 17-92. Transmission substation located along the south side of Osceola Polk Line Rd just west of Reunion Blvd. Transmission substation located along the west side of US 17-92 approximately 0.9 mile south of CR 532. Transmission substation located along the west side of US 17-92 approximately 1.4 miles south of CR 532. Transmission lines along the south side of I-4 in dedicated easements from SR 429 heading east. Transmission lines along the north side of I-4 in dedicated easements from SR 429 heading west. Transmission lines in dedicated easements connecting Intercession City Power Plant and substations, heading south. 	<p>\$6,000,000 (Eligible for reimbursement)</p>
Florida Public Utilities	<ul style="list-style-type: none"> Distribution gas services for Polk and Osceola Counties within the project corridor. 	TBD
Florida Southeast Connection	<ul style="list-style-type: none"> 36-inch natural gas pipeline starting from north side of Osceola Polk Line Rd heading south in an easement adjacent to Duke Energy’s transmission lines to Orange Blossom Trail. 36-inch natural gas pipeline continues south on Orange Blossom Trail, transitioning from the east and west side of the road, and exits the project study area in Polk County. 	<p>\$14,200,000 (Eligible for reimbursement)</p>
Frontier Communications	<ul style="list-style-type: none"> Cable, fiber, and phone facilities within the study corridor. Phone facilities are primarily aerial and attached to existing power company pole lines with buried cable/fiber throughout the study area. 	TBD

Table 1 Cont.: Existing Utilities and Estimated Relocation Costs of Major Facilities

Company	Description	Relocation Cost
Gulfstream Natural Gas	<ul style="list-style-type: none"> 16-inch natural gas pipeline coming from interconnect with FGT booster/metering station. 16-inch natural gas pipeline continues south down east side of Old Lake Wilson Rd in an easement, then transitions to a 24-inch pipeline and continues east along north side of Osceola Polk Line Rd to serve Duke Energy Intercession City Power Plant. 24-inch natural gas pipeline along the north side of Osceola Polk Line Rd from Old Wilson Rd to east of I-4 where the pipeline turns and heads south in an easement adjacent to a OUC transmission power easement. 	\$0
Kinder Morgan	<ul style="list-style-type: none"> 16-inch Gasoline with batch ethanol pipeline along the south side of I-4 to SR 429, where the pipeline turns southeast along Reedy Creek District parcels and then an easement running adjacent to Duke Energy’s transmission easement existing the project to the south. 10-inch jet fuel pipeline along the north side to CSX’s railroad for the limits of the project. The pipeline (Tampa to Taft) that runs from Tampa to Orlando International Airport for aviation fueling. 	<p>\$7,500,000 (Eligible for reimbursement)</p>
KUA	<ul style="list-style-type: none"> 30” Natural gas pipeline along Osceola Polk Line Rd from FGT booster/metering Station east to KUA Cane Island Power Plant. 	<p>\$9,880,000 (Eligible for reimbursement)</p>
MCI	<ul style="list-style-type: none"> Buried fiber throughout the study area. 	TBD
Orlando Telephone Company	<ul style="list-style-type: none"> Phone facilities within the study corridor. Phone facilities are primarily aerial and attached to existing power company pole lines. 	TBD
Polk County Utilities	<ul style="list-style-type: none"> Water and wastewater facilities throughout project study areas located within Polk County. 	TBD
Spectra Energy-Sabal Trail	<ul style="list-style-type: none"> 36-inch natural gas pipeline along the north side of Osceola Polk Line Rd from just west of Duke Energy’s power plant to Orange Blossom Trail, where the pipeline continues east along the north side of CSX’s right-of-way. 	\$0
TECO Peoples Gas	<ul style="list-style-type: none"> Gas distribution services for local business and residential areas throughout the project study area. 	TBD
TOHO Water Authority	<ul style="list-style-type: none"> Water and sewer facilities throughout project for all of Osceola County and northern portions of Polk County. WTP and storage tank located on the north side of Osceola Polk Line Rd just east of Old Lake Wilson Rd. WWTP located along the east side of Poinciana Parkway just north of Cypress Parkway. 	TBD
Witel Communications	<ul style="list-style-type: none"> Buried fiber throughout the study area. 	TBD

3.0 UTILITY MITIGATION AND COST

Due to the nature of the existing conditions throughout the project corridor, it is anticipated that the Poinciana Parkway Extension will impact a number of the existing major utility facilities on the project. Major utility facilities potentially impacted include natural gas pipelines owned and operated by Florida Southeast Connection, Gulfstream Natural Gas, and Sabal Trail. Kinder Morgan also maintains petroleum and jet fuel pipelines in the area. In addition, Duke Energy maintains their Intercession City Power Plant, three transmission substations, and various high voltage transmission lines throughout the project study area. The project's extents, anticipated right-of-way acquisition, and related improvements are shown on the preferred alternative conceptual plans included in [Appendix 4](#). Since survey was not performed as a part of this evaluation study, UAOs could not provide an estimated schedule for performing their relocations without knowing the extent of the actual impacts.

Mitigation measures should be taken during the design phase of the project to minimize impacts to the existing utilities to the fullest extent possible. If impacts are unavoidable, design alternatives should 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 and on private property would likely be eligible for reimbursement, all measures will be taken to avoid impacting the existing utility facilities identified in easements or privately-owned parcels. Though relocation of other facilities within the existing right-of-way are anticipated, all efforts will be made during the design phase to minimize impacts to existing pipelines, power plants, substations, and transmission facilities, to the greatest extent possible.

Appendix 1
Sunshine 811 Design Tickets

UTILITY DESIGN TICKET - NO FIELD MARKING REQUIRED
 Ticket : 103802335 Rev:000 Taken: 04/13/18 09:23ET

State: FL Cnty: OSCEOLA GeoPlace: DAVENPORT
 CallerPlace: DAVENPORT
 Subdivision:

Address :
 Street : COUNTY ROAD 532
 Cross 1 : S ORANGE BLOSSOM
 Within 1/4 mile: Y

Locat: LOCATE 1.5 MILES IN EACH DIRECTION FROM THE INTERSECTION OF SOUTH ORANGE
 BLOSSOM TRAIL AND COUNTY ROAD 532.

:
 Remarks : UTILITY DESIGN TICKET - NO FIELD MARKING REQUIRED
 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 ***

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 Grids : 2813A8132B 2813A8132C 2813A8132D 2813B8132C 2813B8132D
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 Grids : 2814C8132B 2814D8132B 2814D8132C 2815B8132A 2815B8133D
 Grids : 2815C8132A 2815C8133D 2815D8132A 2815D8133D

Work date: 04/13/18 Time: 09:26ET Hrs notc: 000 Category: 6 Duration: 30 DAYS
 Due Date : 04/17/18 Time: 23:59ET Exp Date : 05/14/18 Time: 23:59ET
 Work type: UNDERGROUND CONSTRUCTION Boring: N White-lined: N
 Ug/Oh/Both: U Machinery: N Depth: 15 FT Permits: N N/A
 Done for : FDOT

Company : INWOOD CONSULTING ENGINEERS Type: CONT
 Co addr : 3000 DOVERA DR
 Co addr2: SUITE 200
 City : OVIEDO State: FL Zip: 32765
 Caller : DAVID LEDGERWOOD Phone: 407-971-8850
 BestTime: 7:30-5:30

Mobile : 407-625-9808
 Fax : 407-971-8955
 Email : DLEDGERWOOD@INWOODINC.COM

Submitted: 04/13/18 09:23ET Oper: DAV Chan: WEB
 Mbrs : CFPIPL FPC313 FPC322 FWS701 GN1133 GT1722 HW1474 L3C900 LS1104 MCIU01
 Mbrs : PE1741 PGSORL POLKNE SE2188 TI1322 TLMD03 UTI297

Service Area Code	Service Area Name	Contact	Phone Numbers	Utility Type
CFPIPL	KINDER MORGAN / CENTRAL FLORIDA PIPELINE	MARK CLARK	Day: (813) 781 - 1718 Alt: (727) 271 - 0024	GAS PIPELINE
FPC313	DUKE ENERGY	SHARON DEAR	Day: (407) 850 - 2762	ELECTRIC
FPC322	DUKE ENERGY	SHARON DEAR	Day: (407) 850 - 2762	ELECTRIC
FWS701	TOHO WATER AUTHORITY - ZONE 1	JEFFREY JIMENEZ**	Day: (407) 572 - 7472	WASTEWATER/RECLAIM WATER
GN1133	GULFSTREAM NATURAL GAS SYSTEM	FRED DELOACH	Day: (941) 723 - 7108 Alt: (941) 232 - 2424	
GT1722	FRONTIER COMMUNICATIONS	TONI CANNON	Day: (813) 875 - 1014	CABLE/FIBER/PHONE
HW1474	WILTEL COMMUNICATIONS, LLC	TECH ON DUTY	Day: (877) 366 - 8344	
L3C900	LEVEL 3 COMMUNICATIONS	NETWORK RELATIONS	Day: (877) 366 - 8344 x2	FIBER OPTIC
MCIU01	MCI	DEAN BOYERS	Day: (469) 886 - 4238	COMMUNICATIONS / FIBER OPTIC
PE1741	DUKE ENERGY	SHARON DEAR	Day: (407) 850 - 2762 Emerg: (888) 333 - 8251	FIBER

PGSORL	TECO PEOPLES GAS- ORLANDO	JOAN DOMNING	Day: (813) 275 - 3783	GAS
POLKNE	POLK COUNTY UTILITIES - NE REGION	TOM HOLLINGTON**	Day: (863) 559 - 1102	WATER/SEWER
SE2188	SPECTRA ENERGY- SABAL TRAIL	Paul Lanius	Day: (501) 920 - 6698	GAS
TI1322	TRANSTATE INDUSTRIAL PIPELINE SYSTEMS INC	TOM ULMER**	Day: (772) 778 - 2255 Alt: (561) 315 - 9078	GAS
TLMD03	COMCAST COMMUNICATIONS	WADE MATHEWS	Day: (352) 516 - 3824	CATV
UTI297	CENTURYLINK WINTER GARDEN	TY LESLIE	Day: (407) 814 - 5293	PHONE & FIBER OPTIC

UTILITY DESIGN TICKET - NO FIELD MARKING REQUIRED
 Ticket : 103802239 Rev:000 Taken: 04/13/18 09:11ET

State: FL Cnty: POLK GeoPlace: DAVENPORT
 CallerPlace: DAVENPORT
 Subdivision:

Address :
 Street : COUNTY ROAD 532
 Cross 1 : S ORANGE BLOSSOM
 Within 1/4 mile: Y

Locat: LOCATE 1.5 MILES IN EACH DIRECTION FROM THE INTERSECTION OF SOUTH ORANGE BLOSSOM TRAIL AND RONALD REAGAN PARKWAY.

:
 Remarks : UTILITY DESIGN TICKET - NO FIELD MARKING REQUIRED
 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 ***

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 Grids : 2813A8132A 2813A8132B 2813A8132C 2813A8133B 2813A8133C
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 Grids : 2815C8133C 2815D8133B 2815D8133C

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 Due Date : 04/17/18 Time: 23:59ET Exp Date : 05/14/18 Time: 23:59ET
 Work type: UNDERGROUND CONSTRUCTION Boring: N White-lined: N
 Ug/Oh/Both: U Machinery: N Depth: 15 FT Permits: N N/A
 Done for : FDOT

Company : INWOOD CONSULTING ENGINEERS Type: CONT
 Co addr : 3000 DOVERA DR
 Co addr2: SUITE 200
 City : OVIEDO State: FL Zip: 32765
 Caller : DAVID LEDGERWOOD Phone: 407-971-8850

BestTime: 7:30-5:30
 Mobile : 407-625-9808
 Fax : 407-971-8955
 Email : DLEDGERWOOD@INWOODINC.COM

Submitted: 04/13/18 09:11ET Oper: DAV Chan: WEB
 Mbrs : BE1782 CFLGAS CFPIPL FPC313 FS2216 GN1133 GT1722 HW1474 L3C900 LS1104
 Mbrs : MCIU01 OTC811 PGSORL POLKNE SE2188 TI1322 TLMD03 UTI297

Service Area Code	Service Area Name	Contact	Phone Numbers	Utility Type
BE1782	CHARTER COMMUNICATIONS	TOM SANSING*	Day: (863) 288 - 2340 x84264 Alt: (863) 286 - 2440	
CFLGAS	FLORIDA PUBLIC UTILITIES	GARY HARDY	Day: (863) 224 - 3786	GAS
CFPIPL	KINDER MORGAN / CENTRAL FLORIDA PIPELINE	MARK CLARK	Day: (813) 781 - 1718 Alt: (727) 271 - 0024	GAS PIPELINE
FPC313	DUKE ENERGY	SHARON DEAR	Day: (407) 850 - 2762	ELECTRIC
FS2216	FLORIDA SOUTHEAST CONNECTION LLC	SEGUN OJETAYO	Day: (713) 951 - 5379 Alt: (281) 610 - 2275 Emerg: (941) 729 - 5766	GAS
GN1133	GULFSTREAM NATURAL GAS SYSTEM	FRED DELOACH	Day: (941) 723 - 7108 Alt: (941) 232 - 2424	
GT1722	FRONTIER COMMUNICATIONS	TONI CANNON	Day: (813) 875 - 1014	CABLE/FIBER/PHONE
HW1474	WILTEL COMMUNICATIONS, LLC	TECH ON DUTY	Day: (877) 366 - 8344	
L3C900	LEVEL 3 COMMUNICATIONS	NETWORK RELATIONS	Day: (877) 366 - 8344 x2	FIBER OPTIC

MCIU01	MCI	DEAN BOYERS	Day: (469) 886 - 4238	COMMUNICATIONS / FIBER OPTIC
OTC811	ORLANDO TELEPHONE COMPANY INC	JACK LEOPARD	Day: (407) 996 - 6297	FIBER AND TELEPHONE
PGSORL	TECO PEOPLES GAS- ORLANDO	JOAN DOMNING	Day: (813) 275 - 3783	GAS
POLKNE	POLK COUNTY UTILITIES - NE REGION	TOM HOLLINGTON**	Day: (863) 559 - 1102	WATER/SEWER
SE2188	SPECTRA ENERGY- SABAL TRAIL	Paul Lanius	Day: (501) 920 - 6698	GAS
TI1322	TRANSTATE INDUSTRIAL PIPELINE SYSTEMS INC	TOM ULMER**	Day: (772) 778 - 2255 Alt: (561) 315 - 9078	GAS
TLMD03	COMCAST COMMUNICATIONS	WADE MATHEWS	Day: (352) 516 - 3824	CATV
UTI297	CENTURYLINK WINTER GARDEN	TY LESLIE	Day: (407) 814 - 5293	PHONE & FIBER OPTIC

Appendix 2

Utility Coordination

Date: July 12, 2017

To: All Attendees

From: David Ledgerwood, PE – Inwood Consulting Engineers

Re: CFX Poinciana/I-4 Connector Concept and Feasibility Study – Gulfstream NG Conference Call held on 7/5/17

CC: File

The purpose of the meeting was to discuss the project including the existing Gulfstream Natural Gas (Gulfstream) facilities and easements, current corridor alternatives considered, and potential issues/requirements relating to the CFX Poinciana/I-4 Connector Planning Corridor Assessment. The following outlines the items discussed:

Existing Conditions

- Gulfstream has an interconnect with Florida Gas Transmission (FGT), TECO Peoples Gas, and Kissimmee Utility Authority located along the southeast corner of the I-4/SR 429 interchange, adjacent to FGT's booster station.
 - The Gulfstream site includes one microwave tower
 - Property limits are generally 1 foot outside of existing fencing
 - Osceola County Property Appraiser graphic is included with these minutes for reference
- Gulfstream maintains a 16-inch and high pressure natural gas pipeline that comes from the interconnect site and travels down the east side of Old Lake Wilson Road to CR 532
 - Existing 16-inch pipeline is located in an easement
- Gulf Stream maintains a 24-inch natural gas pipeline from Duke Energy's Intercession Power Plant to just east of Kemp Road, where the pipeline turns and heads south in an easement
- Operating pressure on Gulfstream pipelines is 1,400 psi.
- Fred provided GIS information of Gulfstream facilities within the project area for review when developing future alternative concepts
- Other than roadway crossings, all Gulfstream pipelines are located in easements
 - Relocation of facilities in easements would be eligible for reimbursement

Potential Issues/Concerns

Preliminary I-4/SR 429 Interchange concepts were review with Fred and the following were major points of the discussion:

- I-4/SR 429 interchange extension alternatives with ramps to the south of the Gulfstream interconnect site would likely require elevated ramps near Gulfstream's access road
 - Aerial encroachment of Gulfstream property is not acceptable and will not be permitted
 - Ramps to the south of Gulfstream property will likely impact the existing 16-inch pipeline
- I-4/SR 429 interchange extension alternatives with ramps that go to the north of the Gulfstream interconnect site are preferred by Fred
- Gulfstream venting activities should not be an issue for the alternatives reviewed
 - Venting activities are performed as a part of normal operation and not to the extent of FGT booster system venting
- Shorter stretches of impacts to Gulfstream pipelines may result in the need to relocate much longer portions of the pipeline to return the serviceability of the pipeline
- Rough estimate of \$12-15 million per mile for relocation of the 24-inch gas pipeline
- Rough estimate of \$8-10 million per mile for relocation of the 16-inch gas pipeline

3660 Maguire Blvd., Suite 200, Orlando, FL 32803 | P: 407-898-1511 | www.kimley-horn.com

- Rough estimate of \$2-3 million per “hot-tap” connection
- Fred requested that Gulfstream stay informed of the project and any future alternatives evaluated

END OF CONFERENCE CALL

Action Items

- **Kimley Horn/Inwood** to continue to coordinate with Gulfstream on new alternatives developed for the project study.

Note: The information above reflects the author’s understanding of the contents of the meeting. If any is interpretations or inaccuracies are included, please contact David Ledgerwood (407-971-8850) as soon as possible for resolution and revisions.

Date: September 20, 2018**To:** All Attendees**From:** David Ledgerwood, PE – Inwood Consulting Engineers**Re:** CFX Poinciana Parkway PD&E Study – Utility Meeting held on 9/13/18 at Sabal Trail’s Office on Osceola Polk Line Rd. (CR 532)**CC:** File

The purpose of the meeting was to discuss the scope of the project including current corridor alternatives considered, potential impacts to existing utilities, and other utility concerns/requirements relating to the CFX Poinciana Parkway Extension PD&E Study. Following an overview of the project history and current scope, the utilities provided feedback on the current alternatives being evaluated, as well as their extension north of CR 532. The following outlines the items discussed:

Sabal Trail Transmission

- The Sabal Trail headquarters has two main pipelines. One pipeline feeds from the west, which is a main trunk line that feeds numerous customers. The other pipeline exits the facility to the east and is the Hunter’s Creek lateral with only one major customer (FGT).
- Sabal Trail preferred CR 532 interchange options that were located along the east side of the Headquarters located at 6781 Osceola Polk Line Rd., Davenport, FL 33896 (Alternative 4 & 5).
 - This option would likely only impact the Hunter’s Creek lateral and would cause fewer disruptions to customers.
- Sabal Trail prefers perpendicular roadway crossings over pipelines.
- Vertical clearances required for bridges over pipelines would need to be reviewed individually by Sabal Trail for acceptance.
- Design and construction specifications near Sabal Trail facilities is outlined in the Sabal Trail Transmission Developer Guidebook, which was provided at the meeting.

Gulfstream Natural Gas

- CR 532 interchange alternatives cross the end of Gulfstream’s pipeline that feeds the Duke Energy Intercession City Power Plant.
- Gulfstream does not like to relocate existing pipelines unless necessary.
- Gulfstream also preferred CR 532 interchange options that were located along the east side of the Sabal Trail Headquarters located at 6781 Osceola Polk Line Rd., Davenport, FL 33896 (Alternative 4 & 5).
 - These alternatives provide perpendicular roadway crossings for the pipeline.
 - Alternatives to the west side of Sabal Trail’s Headquarters included future ramp crossing Gulfstream’s pipeline at an angle and longitudinal pavement over their pipeline.
- Gulfstream does not allow longitudinal pavement over their pipeline. Only perpendicular roadway crossings are acceptable.
- Fred DeLoach (Williams) believes that Gulfstream’s pipeline within the CR 532 interchange alternatives was constructed with Class 2 pipe. This may need to be replaced with Class 3 pipe based on proposed roadway crossings. Gulfstream would need to evaluate the level of improvements proposed over pipeline to confirm upgrade requirements.
- Design and construction specifications near Gulfstream’s facilities is outlined in the Williams Developers’ handbook, which was provided via email after the meeting.

Duke Energy-Transmission

- The intercession City Power Plant is a major plant in Florida’s statewide power reliability.
- Duke maintains 230 kV lines out of the power plant.
 - Impacts to Duke’s transmission electric lines or Gulfstream’s pipeline feeding the plant could negatively affect Florida’s electrical grid.
- Any relocations of Duke’s transmission facilities or Gulfstream’s pipeline would need to occur during non-peak times of year.
- In general, Duke requires 25-foot setback from their property line.
 - This is for safety and security requirements.
 - Duke will need to review additional Federal guidelines for separation requirements from critical plant features such as natural gas stations and fuel storage tanks.
 - Duke Asset Protection will also need to review alternatives near the plant prior to acceptance.
- Duke Energy preferred CR 532 interchange options that were located along the west side of the Sabal Trail Headquarters located at 6781 Osceola Polk Line Rd., Davenport, FL 33896 (Alternative 1).
 - Alternatives to the east side of Sabal Trail headquarters may not allow for enough vertical clearance for overhead transmission facilities to cross over elevated structures so close to the plant.

General Discussion

- Florida Southeast Connection pipeline construction is complete, and the pipeline is in service.
 - Per design plans, FSC appears to show new pipeline in an easement adjacent to US 92 right-of-way.
- TECO recently installed a 6-inch or 8-inch gas main along the south side of CR 532 and will need to be coordinated with.
- All UAOs were invited to the PAG meetings for the project. Let Clif know if you were not invited to this meeting and would like to be involved with future PAG meetings.
 - Qwest is on the PD&E team and performing all the Public Involvement activities.

End of Meeting

Note: The information above reflects the author’s understanding of the contents of the meeting. If any is interpretations or inaccuracies are included, please contact David Ledgerwood (407-971-8850) as soon as possible for resolution and revisions.

Meeting Sign-in Sheet

Poinciana Parkway Extension
Project Development & Environment Study

Thursday, September 13, 2018, 1:00 PM
Utilities

Name - Please Print	Initials	Organization	Email
Perry Turnbull	PT	Enbridge / Sabal Trail	Perry.Turnbull@enbridge.com
John Harris	JH	Enbridge / Sabal Trail	John.C.Harris@enbridge.com
Peter Kerrigan		Enbridge / Sabal Trail	Peter.Kerrigan@enbridge.com
Paul Lanus	PL	Enbridge / Sabal Trail	Paul.Lanus@enbridge.com
Cliff Vickers		NextEra Energy	Cliff.Vickers@nexteraenergy.com
Jacob Hickey		NextEra Energy	Jacob.Hickey@nexteraenergy.com
Matthew Reis <i>Matthew</i>	MR	Duke Energy	Matthew.Reis@duke-energy.com
Ralph Mears / Craig Wilson	CW	Kinder Morgan	ralph_mears@kindermorgan.com
Tim Yelverton / James Terry	JT	Kissimmee Utility Authority	tyelvert@kua.com
James Villarreal	JV	Williams / Gulfstream Natural Gas	James.P.Villarreal@Williams.com
Shawn Deutscher		Williams / Gulfstream Natural Gas	Shawn.Deutscher@Williams.com
Tom Ulmer <i>Tom</i>		Transtate Industrial Pipeline Systems	tom@transtate.us
Jennifer Williams <i>Scott Vanbeek</i>		Pike Engineering (Duke Transmission)	JEWilliams@pike.com sknol2002@pike.com
Merissa Evans <i>Merissa</i>	ME	Dewberry	mevans@Dewberry.com
David Ledgerwood <i>David</i>		Inwood	dledgerwood@inwoodinc.com
Fred Burkett		Kimley-Horn	fred.burkett@kimley-horn.com
Clif Tate	CT	Kimley-Horn	clif.tate@kimley-horn.com

POINCIANA PARKWAY EXTENSION PD&E MEETING SUMMARY

Utilities Coordination Meeting

Date: Thursday, December 13, 2018
Time: 1:00 PM to 2:30 PM
Location: Sabal Trail Office – 6781 Osceola Polk Line Rd, Davenport, FL 33896
Attendees: Matthew Reis, Duke Energy
John Harris, Enbridge – Sabal Trail
Peter Kerrigan, Enbridge – Sabal Trail
Paul Lanius, Enbridge – Sabal Trail
Perry Turnbull, Enbridge – Sabal Trail
Tom Bickel, Kinder Morgan
Jacob Hickey, NextEra Energy – Florida Southeast Connection
Loren Brown, NextEra Energy – Florida Southeast Connection
Fred DeLoach, Williams - Gulfstream
James Villarreal, Williams – Gulfstream
Jonathan Williamson, CFX / Dewberry
Fred Burkett, Kimley-Horn
Clif Tate, Kimley-Horn
David Ledgerwood, Inwood

This meeting was held to discuss the CFX Poinciana Parkway Extension Project Development and Environment (PD&E) Study and solicit feedback from utility companies within the study area regarding impacts and proposed relocations. Clif Tate presented a summary of the project history, previous study alternatives and the study schedule (see attached).

Clif used Google Earth to present the various alternatives and their relationship to known utilities in the study area.

Alternative 1A (see [DRAFT 1a.kmz file](#))

Alternative 1A travels along the south side of Ronald Reagan Parkway (previously designated as Kinney Harmon Road), bridges over US 17/92 (south of Ronald Reagan Parkway), bridges over Ronald Reagan Parkway (west of US 17/92), bridges over the railroad tracks, and travels along the west side of the railroad tracks before intersecting with CR 532 (west of the Sabal Trail facility).

Alternative 1A intersects with the following utilities (see [Utilities.kmz file](#)):

- Duke Energy Transmission line, south of Ronald Reagan Pkwy. and approximately 0.4 mile east of US 17/92
- Kinder-Morgan pipeline, south of Ronald Reagan Pkwy. and approximately 0.4 mile east of US 17/92
- Florida Southeast Connection pipeline located on the east side of US 17/92, south of Ronald Reagan Pkwy. (the on-ramp from US 17/92 crosses over the pipeline)
- Duke Energy Transmission line running along Ronald Reagan Pkwy., west of US 17/92
- Kinder-Morgan pipeline which travels along the railroad tracks

Other than adjustments where the expressway intersects with utilities, no utility relocations are proposed with Alternative 1A.

Alternative 4A and Alternative 5A (see [DRAFT 4a.kmz file](#) and [DRAFT 5a.kmz file](#))

Alternatives 4A and 5A travel north of Ronald Reagan Parkway on different alignments to south of US 17/92. Alternatives 4A and 5A have the same alignment from south of US 17/92 to CR 532 and have the same interaction with utilities.

Alternatives 4A and 5A intersect with the following utilities (see [Utilities.kmz file](#)) (utilities proposed to be relocated are identified):

- Duke Energy Transmission line running along the northern side of US 17/92 near the Osceola/Polk County line
- Duke Energy Transmission line traveling along the western side of the Osceola/Polk County line (to be relocated)
- Kinder-Morgan pipeline traveling along the western side of the Osceola/Polk County line (to be relocated)
- Florida Southeast Connection pipeline traveling along the Osceola/Polk County line (to be relocated)
- Kinder-Morgan pipeline which travels along the northern side of the railroad tracks

The following relocations are proposed for Alternatives 4A and 5A: (see [4a-5a Relocations.kmz file](#))

- The Duke Energy Transmission line running west from the power plant would be extended approximately 600' west before traveling south approximately 5,000' to tie into the existing transmission line just south of Old Tampa Hwy.
- The Kinder-Morgan pipeline would turn west, just north of CR 532, for approximately 650', then travel south approximately 4,000 feet to tie into the existing pipeline at Old Tampa Hwy.
- Approximately 600' south of CR 532, the Florida Southeast Connection pipeline would travel southwest approximately 600', then travel south approximately 2,700 feet to tie into the existing pipeline just south of Old Tampa Hwy.

It is anticipated that existing utility easements will be replaced with new easements. (see [New Easement.kmz file](#)) The Poinciana Parkway Extension project team will prepare cost estimates for relocating the utilities and obtaining the new easements. The team will coordinate with the applicable utilities in an effort to develop accurate cost estimates.

Additional Coordination

It was agreed that Kimley-Horn will provide the impacted utility owners with KMZ files of draft alternatives (which are subject to change) and the utility owners will provide Kimley-Horn with KMZ files of their facilities, right-of-way and easements within the area of the alternatives.

END OF MEETING SUMMARY

This meeting summary was prepared by Clif Tate of Kimley-Horn. It is not verbatim, but is a summary of the meeting activities and overall discussion. If anyone wishes to modify or append to this account, please contact Clif Tate either by phone at 407-898-1511 or by email at clif.tate@kimley-horn.com

Appendix 3
Utility Responses/Information

Duke Energy Transmission



Intercession
City Power Plant

5 - 230-kV & 1 - 69-kV
in easement

69-kV in easement

230-kV in easement

2-69-kV in
easement

69-kV

Substation

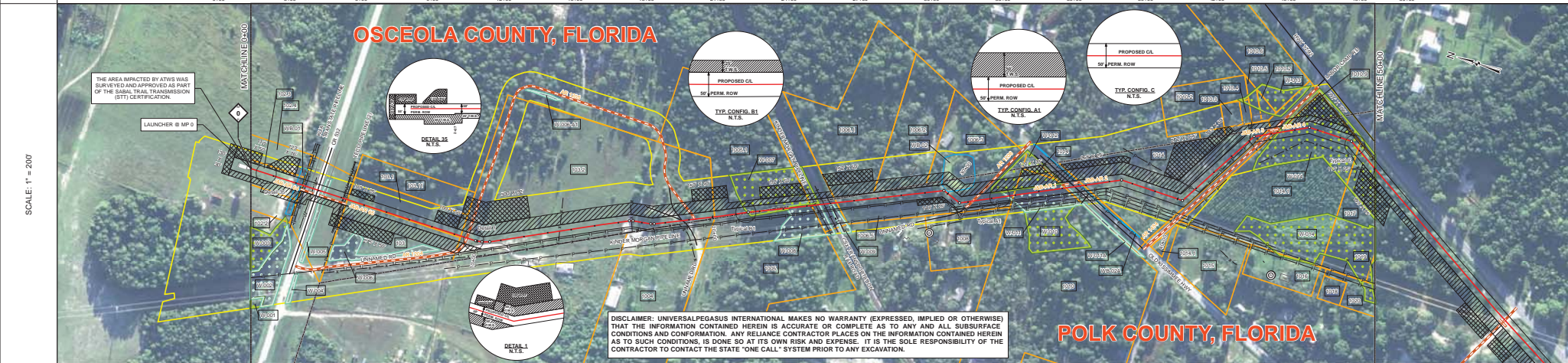
69-kV in easement

2 - 230-kV in
easement

Duke Energy - Transmission
GIS Map

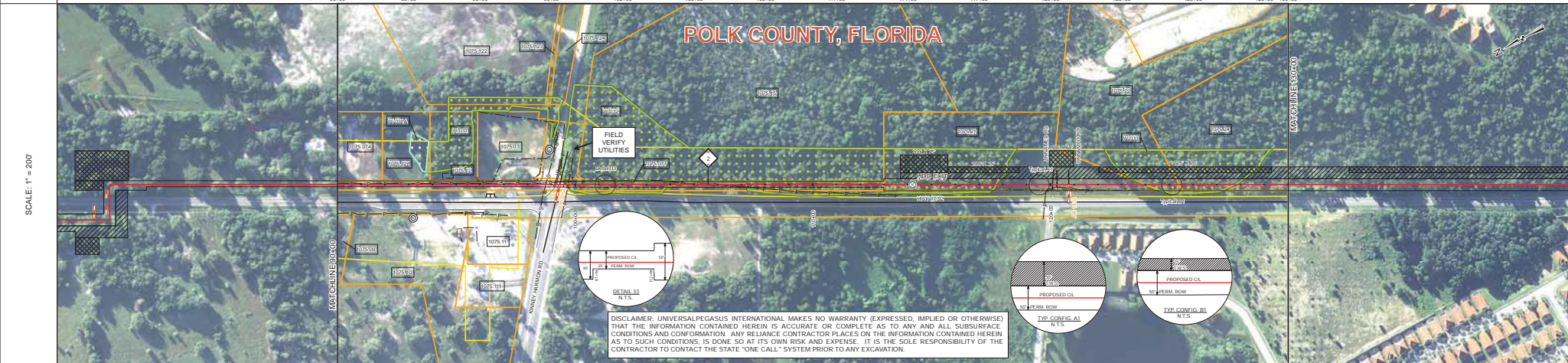
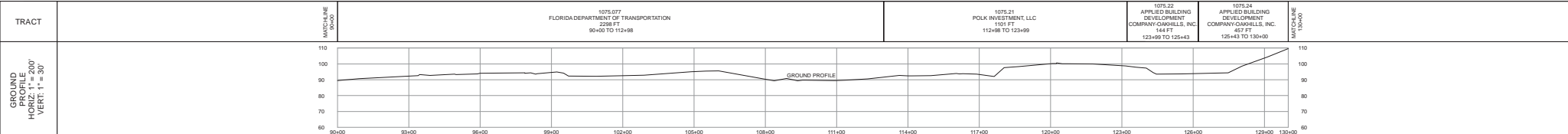
Florida Southeast Connection Pipeline

TRACT	MATCHLINE 0+00	102.3 SABAL TRAIL TRANSMISSION LLC 227 FT 0+00 TO 2+27	CR 533 OSCEOLA COUNTY 200 FT 2+27 TO 4+27	103.1 LUIS MARCELIN, SR., ET AL 500 FT 4+27 TO 9+27	1005.1 JOSTAM PROPERTY INC. 1902 FT 20+00 TO 21+99	1005.2 WILLIAM W. WOPPEL AND RICHARD A. BRIND 107 FT 21+99 TO 24+18	1006.5 CSX TRANSPORTATION 2418 FT TO 25+25	1006.5 CAROL GRIMES 788 FT 25+25 TO 32+93	1010 LOUGHAN COMMUNITY ASSOCIATION, INC. 219 FT 32+93 TO 35+12	1014 OLD KISSIMEE HWY POLK COUNTY 78 FT 35+12 TO 38+90	1014 US90-48 LAND TRUST C/O W. T. PAUL LIAU, TRUSTEE 875 FT 35+90 TO 44+65	1014.1 LABOR CAMP RD POLK COUNTY 52 FT 44+65 TO 45+17	1014.1 DUKE ENERGY FLORIDA, INC. 307 FT 45+17 TO 48+92	1017 DUKE ENERGY FLORIDA, INC. 108 FT 48+92 TO 50+00	MATCHLINE 50+00
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SURVEY DATA	STATIONING	ENGINEERING DATA		ENVIRONMENTAL DATA
		MATERIAL	STATIONS	
MATCHLINE 0+00	MATCHLINE 0+00	21940-505-LRW-00030	1970	W014
MATCHLINE 50+00	MATCHLINE 50+00	21940-440-PMW-00001	1970	W014
MATCHLINE 0+00	MATCHLINE 0+00	21940-440-PMW-00001	1970	W014
MATCHLINE 50+00	MATCHLINE 50+00	21940-440-PMW-00002	1970	W014
MATCHLINE 0+00	MATCHLINE 0+00	21940-440-PMW-00003	1970	W014
MATCHLINE 50+00	MATCHLINE 50+00	21940-440-PMW-00003	1970	W014

BILL OF MATERIALS		MISCELLANEOUS MATERIALS		TYPICAL DRAWINGS		GENERAL INFORMATION		LEGEND		REVISIONS		APPROVALS						
ITEM NO.	QTY	UOM	RECN	MATERIAL NUMBER	DESCRIPTION	DWG/FIELD BOOK NO.	TITLE	1. THE MINIMUM DEPTH OF COVER FOR THE PROJECT IS 36 INCHES. ADDITIONAL DEPTH OF COVER IS REQUIRED FOR ROAD AND WATERBODY CROSSINGS, AND IS TO BE IN ACCORDANCE WITH REFERENCED PERMIT DRAWINGS, SITE SPECIFIC DRAWINGS, OR CONSTRUCTION SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.	PRIN. ROUTE	NO.	DESCRIPTION	DATE	REVISION	CHK BY	APP BY	DRAWN BY:	MB	CONSTRUCTION PERMIT NO.
4	580	EA	1	36" O.D. x 0.750" WT. API 5L X70, PSL2, DSAW, 14-16 MILS FBE & 24-30 MILS ARO	SET ON WEIGHTS	21040-510-TYP-20001	CATHODIC PROTECTION STD. SINGLE POINT TEST STATION, TYPE 1	2. THE BOUNDARIES OF ALL WORK AREAS WILL BE CLEARLY MARKED AND ALL WORK SHALL REMAIN WITHIN THE DESIGNATED WORK AREA.	ROAD	1	UPDATE ENV. RE. ROUTES, FOOT-PRINT	2016-04-08	MB	MU	RG	MB	MU	MAINTENANCE OPERATION REGION
11	EA	1	36" O.D. x 0.750" WT. API 5L X70, PSL2, DSAW, 14-16 MILS FBE	PIPELINE MARKERS	WARNING SIGNS	21040-510-TYP-20002	CATHODIC PROTECTION STD. FOREIGN PIPELINE CROSSING TEST STATION, TYPE 2	3. THE REQUIRED STATE ONE CALL NOTIFICATION IS THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR.	UTILITY	2	ISSUED FOR CONSTRUCTION	2015-12-15	MB	MU	RG	MB	MU	MIN. TEST PRESSURE 1816 PSF
0	EA	1	CP TEST STATION TYPE 1	CP TEST STATION TYPE 1	CP TEST STATION TYPE 1	21040-510-TYP-20003	CP TEST STATION TYPE 2	4. THE CONTRACTOR SHALL ACCESS THE WORK AREA USING ONLY PUBLIC ROADS AND APPROVED ACCESS ROADS.	ROW PARCEL	3	APPROVAL							DESIGN PRESSURE 1440 PSF
0	EA	1	CP TEST STATION TYPE 2	CP TEST STATION TYPE 2	CP TEST STATION TYPE 2	21040-510-TYP-20009	TYPICAL OPEN CUT / BORE	5. ADDITIONAL WARNING SIGNS MAY BE REQUIRED AS DICTATED BY CONSTRUCTION CONTRACT.	ROW SECTION LINE	4	APPROVAL							
0	EA	1	ANODE BED DEEP WELL	ANODE BED DEEP WELL	ANODE BED DEEP WELL	21040-510-TYP-20112	CONTINUOUS CONCRETE COATING STANDARD FOR 36"/30" PIPELINE	6. MAP PROJECTION: NAD 1983 HARN STATE PLANE FLORIDA, EAST TIPS 0001 FEET, VECTOR DATUM NAD83.	ROAD BOUNDARY	5	APPROVAL							
0	EA	1	AERIAL MARKERS	AERIAL MARKERS	AERIAL MARKERS	21040-510-TYP-20113	TYPICAL SAPOLE BAG WEIGHTS		FIELD MARKER	6	APPROVAL							
0	EA	1	AERIAL MARKER DETAIL	AERIAL MARKER DETAIL	AERIAL MARKER DETAIL	21040-510-TYP-20114	AERIAL MARKER DETAIL		FIELD MARKER DETAIL	7	APPROVAL							
0	EA	1	PIPE COATING DATA	PIPE COATING DATA	PIPE COATING DATA	21040-510-TYP-20115	PIPE COATING DATA		FIELD MARKER DETAIL	8	APPROVAL							
0	EA	1	PIPE ASSEMBLIES	PIPE ASSEMBLIES	PIPE ASSEMBLIES	21040-510-TYP-20117	PIPE ASSEMBLIES		FIELD MARKER DETAIL	9	APPROVAL							
0	EA	1	LAUNCHER	LAUNCHER	LAUNCHER	21040-510-TYP-20118	LAUNCHER		FIELD MARKER DETAIL	10	APPROVAL							



STATIONING		MATERIAL	
90+00	130+00	2140-440-PMW-20073	2140-505-HDW-21022
CLASSIFICATION		SEE REF DWG	
INTERSECTION		W 032	
WATERWAYS		W 032	
ENVIRONMENTAL DATA		THIS BAND NOT UTILIZED	

BILL OF MATERIALS			
ITEM NO.	QTY	UOM	DESCRIPTION
4	2420	EA	36" O.D. x 0.750" W.T. API 5L X70, PSL2, DSAW, 14-16 MILS FBE & 24-30 MILS ARO
5	1588	EA	36" O.D. x 0.750" W.T. API 5L X70, PSL2, DSAW, 14-16 MILS FBE

MISCELLANEOUS MATERIALS			
QTY	UOM	RECON. NUMBER	DESCRIPTION
0	EA		SET ON WEIGHTS
2	EA		PIPELINE MARKERS
0	EA		WARNING SIGNS
0	EA		CP TEST STATION TYPE 1
0	EA		GP TEST STATION TYPE 2
0	EA		AERIAL MARKERS
0	EA		ANODE BED DEEP WELL

TYPICAL DRAWINGS			
DWG/FIELD BOOK NO.	TITLE	DESCRIPTION	REVISIONS
2140-510-TYP-20001	CATHODIC PROTECTION STD. SINGLE POINT TEST STATION, TYPE 1		
2140-510-TYP-20002	CATHODIC PROTECTION STD. FORMAL PIPELINE CROSSING TEST STATION, TYPE 2		
2140-510-TYP-20003	TYPICAL OPEN CUT / BORE		
2140-510-TYP-20112	CONTINUOUS CONCRETE COATING STANDARD FOR 36" ID PIPELINE		
2140-510-TYP-20113	AERIAL MARKER INSTALLATION DETAIL		
2140-510-TYP-20114	WARNING SIGN DETAIL		
2140-510-TYP-20116	AERIAL MARKER DETAIL		
2140-510-TYP-20117	TYPICAL PIPELINE-MARKER ASSEMBLY		
2140-510-TYP-20118	PIPELINE MARKER "WARNING" DETAIL		

GENERAL INFORMATION			
1.	THE MINIMUM DEPTH OF COVER FOR THE PROJECT IS 36 INCHES. ADDITIONAL DEPTH OF COVER IS REQUIRED FOR ROAD AND WATERBODY CROSSINGS, AND IS TO BE IN ACCORDANCE WITH REFERENCED PERMIT DRAWINGS, SITE SPECIFIC DRAWINGS, OR CONSTRUCTION SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.		
2.	THE BOUNDARIES OF ALL WORK AREAS WILL BE CLEARLY MARKED AND ALL WORK SHALL REMAIN WITHIN THE DESIGNATED WORK AREA.		
3.	THE REQUIRED STATE ONE CALL NOTIFICATION IS THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR.		
4.	THE CONTRACTOR SHALL ACCESS THE WORK AREA USING ONLY PUBLIC ROADS AND APPROVED ACCESS ROADS.		
5.	ADDITIONAL WARNING SIGNS MAY BE REQUIRED AS DICTATED BY THE STRUCTURE CONTRACT.		
6.	MAP PROJECTION: NAD 1983 HARN STATE PLANE FLORIDA EAST TIPS 0001 FEET, VECTOR DATUM, NAD 83.		

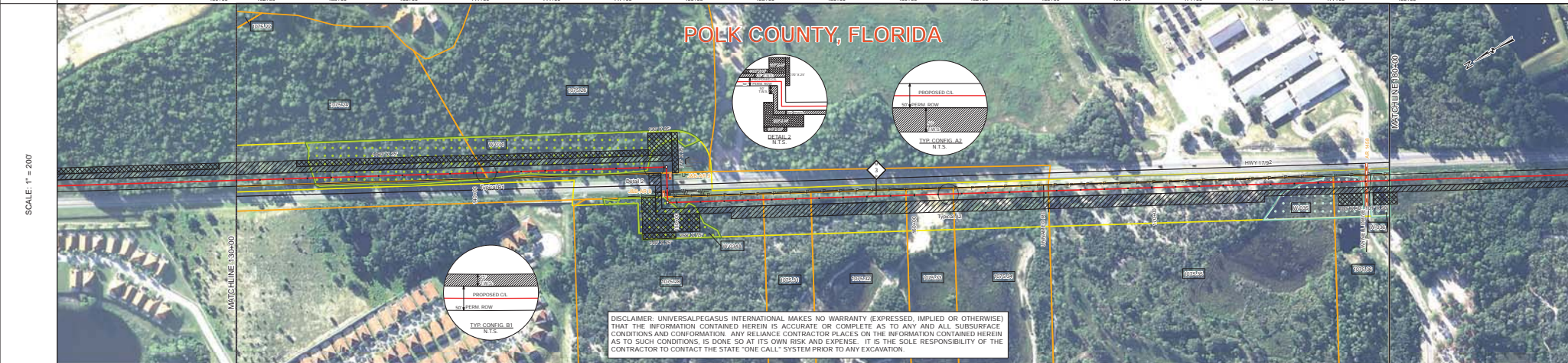
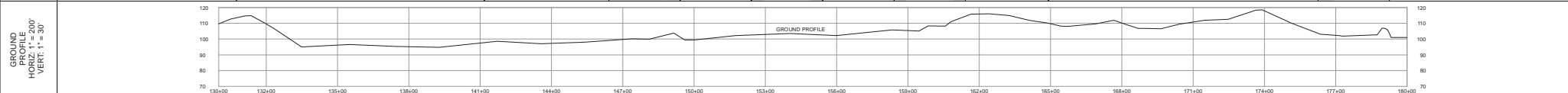
LEGEND	
SYMBOL	DESCRIPTION
PROPOSED PIPE	PROPOSED PIPE
EXISTING PIPE	EXISTING PIPE
PROPOSED CA	PROPOSED CONCRETE ANCHOR
FIELD VERIFY UTILITIES	FIELD VERIFY UTILITIES
CONCRETE ANCHOR	CONCRETE ANCHOR
WARNING SIGN	WARNING SIGN
PIPELINE MARKER	PIPELINE MARKER
PIPELINE MARKER ASSEMBLY	PIPELINE MARKER ASSEMBLY
ANODE BED DEEP WELL	ANODE BED DEEP WELL

REVISIONS			
NO.	DESCRIPTION	DATE	REV. BY
1	IFC (UPDATE ENV. RE-ROUTES FOOT-PRINT)	2016-04-08	MB/MJ
2	ISSUED FOR CONSTRUCTION	2015-12-15	MB/MJ

APPROVALS	
DRAWN BY: MB	CONSTRUCTION PERMIT NO.
CHECKED BY: MJ	MAINTENANCE OPERATION REGION
PROJECT MANAGER: RG	MIN. TEST PRESSURE: 1816 PSF
PROJECT DEF. NO.	DESIGN PRESSURE: 1440 PSF

FLORIDA SOUTHEAST CONNECTION PROJECT
STA: 00+00 TO 130+00
FLORIDA SOUTHEAST CONNECTION ALIGNMENT SHEET
POLK COUNTY, FLORIDA

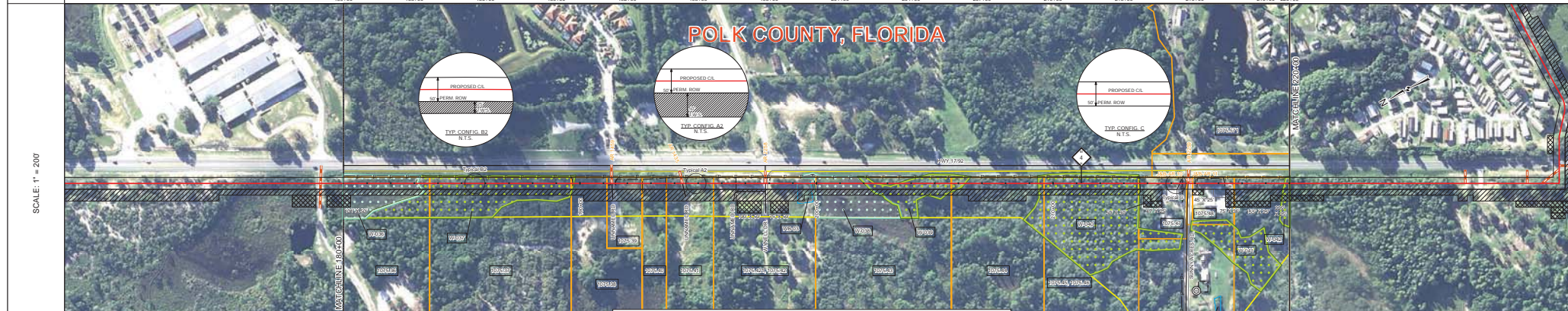
TRACT	1075.24 APPLIED BUILDING DEVELOPMENT COMPANY-GARHILLS, INC. 1044 FT 1304+00 TO 1404+44	1075.26 APPLIED BUILDING DEVELOPMENT COMPANY-GARHILLS, INC. 92 FT 1404+44 TO 149+36	U.S. HIGHWAY 179/2 STATE ROAD 500 FOOT 149+36 TO 154+36	1075.28 VIVEK INVESTMENT CORPORATION 429 FT 149+36 TO 153+65	1075.31 N.D. HOWARD 200 FT 153+65 TO 155+65	1075.32 VIVEK INVESTMENT CORPORATION 200 FT 155+65 TO 159+65	1075.33 ANILKANTH AND CHANDRANATHI MARRAJ 159+65 TO 161+65	1075.34 VIVEK INVESTMENT CORPORATION 399 FT 161+65 TO 165+64	1075.35 STANDARD SAND & SILICA COMPANY 1300 FT 165+64 TO 177+64	1075.36 MARY GRESSETT-CHAPIN 236 FT 177+64 TO 180+00
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SURVEY DATA		STATIONING		MATERIAL		ENGINEERING DATA		ENVIRONMENTAL DATA	
MATCHLINE 1304+00		MATCHLINE 180+00		MATCHLINE 180+00		MATCHLINE 180+00		MATCHLINE 180+00	
1304+00		180+00		180+00		180+00		180+00	
1304+00		180+00		180+00		180+00		180+00	

BILL OF MATERIALS				MISCELLANEOUS MATERIALS				TYPICAL DRAWINGS				GENERAL INFORMATION				REVISIONS				APPROVALS			
ITEM NO.	QTY	UOM	RECN. NUMBER	MATERIAL NUMBER	DESCRIPTION	QTY	UOM	RECN. NUMBER	MATERIAL NUMBER	DESCRIPTION	DWG. FIELD BOOK NO.	TITLE	1. THE MINIMUM DEPTH OF COVER FOR THE PROJECT IS 36 INCHES. ADDITIONAL DEPTH OF COVER IS REQUIRED FOR ROAD AND WATERBODY CROSSINGS AND IS TO BE IN ACCORDANCE WITH REFERENCED PERMIT DRAWINGS. SITE SPECIFIC DRAWINGS OR CONSTRUCTION SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.	NO.	DESCRIPTION	DATE	REV. BY	CHK. BY	APP. BY	DRAWN BY	MB	CONSTRUCTION PERMIT NO.	
1	180	FT		36" O.D. x 0.750" W.T. API 5L X70 PSL2 DRAM, 14-18 MILS FBE & 24-30 MILS ARO	EA					SET ON WEIGHTS	21040-510-TYP-2001	CATHODIC PROTECTION STD. SINGLE POINT TEST STATION, TYPE 1	2. THE BOUNDARIES OF ALL WORK AREAS WILL BE CLEARLY MARKED AND ALL WORK SHALL REMAIN WITHIN THE DESIGNATED WORK AREA.	1						MB	MAINTENANCE OPERATION REGION		
2	4800	FT		36" O.D. x 0.750" W.T. API 5L X70 PSL2 DRAM, 14-18 MILS FBE	EA					PIPELINE MARKERS	21040-510-TYP-2002	CATHODIC PROTECTION STD. FOREIGN PIPELINE CROSSING TEST STATION, TYPE 2	3. THE REQUIRED STATE ONE CALL NOTIFICATION IS THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR.	2						MB	MIN. TEST PRESSURE 1816 PSI		
FITTINGS SUMMARY				CONTINUOUS CONCRETE COATING				SPECIAL NOTES				ENVIRONMENTAL DATA				APPROVALS							
ITEM NO.	QTY	UOM	RECN. NUMBER	MATERIAL NUMBER	DESCRIPTION	QTY	UOM	RECN. NUMBER	MATERIAL NUMBER	DESCRIPTION	21040-510-TYP-2011	CONTINUOUS CONCRETE COATING STANDARD FOR 36" / 30" PIPELINE	4. THE CONTRACTOR SHALL ACCESS THE WORK AREA USING ONLY PUBLIC ROADS AND APPROVED ACCESS ROADS.	APPROVAL				COMPANY					
1	2	EA		36" HORIZONTAL FITTING	EA					7" OF CONTINUOUS CONCRETE COATING (140 PCF DENSITY CONCRETE)	21040-510-TYP-2016	AERIAL MARKER INSTALLATION DETAIL	5. ADDITIONAL WARNING SIGNS MAY BE REQUIRED AS DETERMINED BY THE CONTRACTOR.	UNIVERSAL PEGASUS INTERNATIONAL				FLORIDA SOUTHEAST CONNECTION					
PIPE ASSEMBLIES				PIPE COATING DATA				SPECIAL NOTES				ENVIRONMENTAL DATA				APPROVALS							
QTY	UOM	DESCRIPTION	QTY	UOM	DESCRIPTION	QTY	UOM	RECN. NUMBER	MATERIAL NUMBER	DESCRIPTION	21040-510-TYP-2017	PIPELINE MARKER ASSEMBLY	1. INDUCTION BEND QUANTITIES ALONG WITH THEIR DESCRIPTIONS ARE LOCATED ON DRAWING.	UNIVERSAL PEGASUS INTERNATIONAL				FLORIDA SOUTHEAST CONNECTION					
PIPE ASSEMBLIES				PIPE COATING DATA				SPECIAL NOTES				ENVIRONMENTAL DATA				APPROVALS							
PIPE ASSEMBLIES				PIPE COATING DATA				SPECIAL NOTES				ENVIRONMENTAL DATA				APPROVALS							

TRACT	1075.36 MARY GRESSETT-CHAPPIN 364 FT 180+00 TO 183+64	1075.37 RTR II, LLC 198 FT 183+64 TO 189+63	1075.38 RTR II, LLC 191 FT 189+63 TO 191+14	1075.39 RTR II, LLC 140 FT 191+14 TO 192+63	1075.40 SAFWAY/ISSA 193 FT 192+63 TO 193+65	1075.41 BEATRICE GALLOZA 200 FT 193+65 TO 195+65	1075.42, 1075.43 THE GUNTING FAMILY LIMITED PARTNERSHIP 431 FT 195+65 TO 199+56	1075.43 LORENE B. SHELL TRUST 576 FT 199+56 TO 205+71	1075.44 WORTHY P. STEWART 302 FT 205+71 TO 209+63	1075.45, 1075.46 DANPOL INVESTMENTS, INC. 400 FT 209+63 TO 213+63	1075.47 JEAN PARKER 202 FT 213+63 TO 215+65	SUNNY ACRES RD POLK COUNTY 215+65 TO 215+90	1075.48 ALLEN FERGUSON, JR. 172 FT 215+90 TO 217+65	1075.45, 1075.46 DANPOL INVESTMENTS, INC. 255 FT 217+65 TO 220+00
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SURVEY DATA	STATIONING	MATCHLINE 180+00	MATCHLINE 200+00	MATCHLINE 220+00
	MATERIAL	183+15	1744	1587
ENGINEERING DATA	REFERENCE DRAWING			
	CLASSIFICATION	Class III		
ENVIRONMENTAL DATA	STATIONS	183+15	189+63	191+14
	STATIONS	192+63	193+65	195+65

BILL OF MATERIALS				MISCELLANEOUS MATERIALS				TYPICAL DRAWINGS				GENERAL INFORMATION			
ITEM NO.	QTY	UOM	DESCRIPTION	QTY	UOM	DESCRIPTION	DWG/FIELD BOOK NO.	TITLE	1.	2.	3.	4.	5.	6.	
1	382	FT	36" O.D. x 0.750 W.T. API 5L X70 PSL2 DSAW, 14-16 MILS FBE & 24-30 MILS ARO	0	EA	SET ON WEIGHTS	21040-510-TYP-2001	CATHODIC PROTECTION STD. SINGLE POINT TEST STATION, TYPE 1	1. THE MINIMUM DEPTH OF COVER FOR THE PROJECT IS 36 INCHES. ADDITIONAL DEPTH OF COVER IS REQUIRED FOR ROAD AND WATERBODY CROSSINGS, AND IS TO BE IN ACCORDANCE WITH REFERENCED PERMIT DRAWINGS, SITE SPECIFIC DRAWINGS, OR CONSTRUCTION SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.	2. THE BOUNDARIES OF ALL WORK AREAS WILL BE CLEARLY MARKED AND ALL WORK SHALL REMAIN WITHIN THE DESIGNATED WORK AREA.	3. THE REQUIRED STATE ONE CALL NOTIFICATION IS THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR.	4. THE CONTRACTOR SHALL ACCESS THE WORK AREA USING ONLY PUBLIC ROADS AND APPROVED ACCESS ROADS.	5. ADDITIONAL WARNING SIGNS MAY BE REQUIRED AS DICTATED BY CONSTRUCTION CONTRACT.	6. MAP PROJECTION: NAD 1983 HARN STATE PLANE FLORIDA EAST PART 5001 FEET. VECTOR DATUM: NAD 83.	
2	362	FT	36" O.D. x 0.750 W.T. API 5L X70 PSL2 DSAW, 14-16 MILS FBE	0	EA	WARNING SIGNS	21040-510-TYP-2002	CATHODIC PROTECTION STD. FOREIGN PIPELINE CROSSING TEST STATION, TYPE 2	1. INDUCTION BEND QUANTITIES ALONG WITH THEIR DESCRIPTIONS ARE LOCATED ON DRAWING 21040-SSE-FW-00001.	2. SEE AERIAL DRAWING PACKAGE FOR ANODE BED DEEP WELL.					
FITTINGS SUMMARY				CONTINUOUS CONCRETE COATING				SPECIAL NOTES							
1	288	FT	7" OF CONTINUOUS CONCRETE COATING (140 PCF DENSITY CONCRETE)	21040-510-TYP-2012	CONTINUOUS CONCRETE COATING STANDARD FOR 36"/30" PIPELINE										
PIPE ASSEMBLIES				PIPE COATING DATA											
1	1	ASSEMBLY	PIPE COATING: 14 MIL MINIMUM FBE AND 24 MIL MINIMUM ARO	21040-510-TYP-2013	TYPICAL PIPELINE MARKER ASSEMBLY										
2	1	ASSEMBLY	PIPE COATING: 2 PART EPOXY INTERNAL COATING (YES/NO)	21040-510-TYP-2018	PIPELINE MARKER "WARNING" DECAL										

REVISIONS				APPROVALS			
NO.	DESCRIPTION	DATE	REV BY	APP BY	CHECKED BY:	PERMIT NO.	CONSTRUCTION PERMIT NO.
1	IFC (UPDATE ENV. RE-ROUTES, FOOT-PRINT)	2016-04-08	MB	MJ	MJ		MAINTENANCE OPERATION REGION
2	ISSUED FOR CONSTRUCTION	2015-12-15	MB	MJ	RG		MIN. TEST PRESSURE 1816 PSI
3							DESIGN PRESSURE 1440 PSI

FLORIDA SOUTHEAST CONNECTION PROJECT

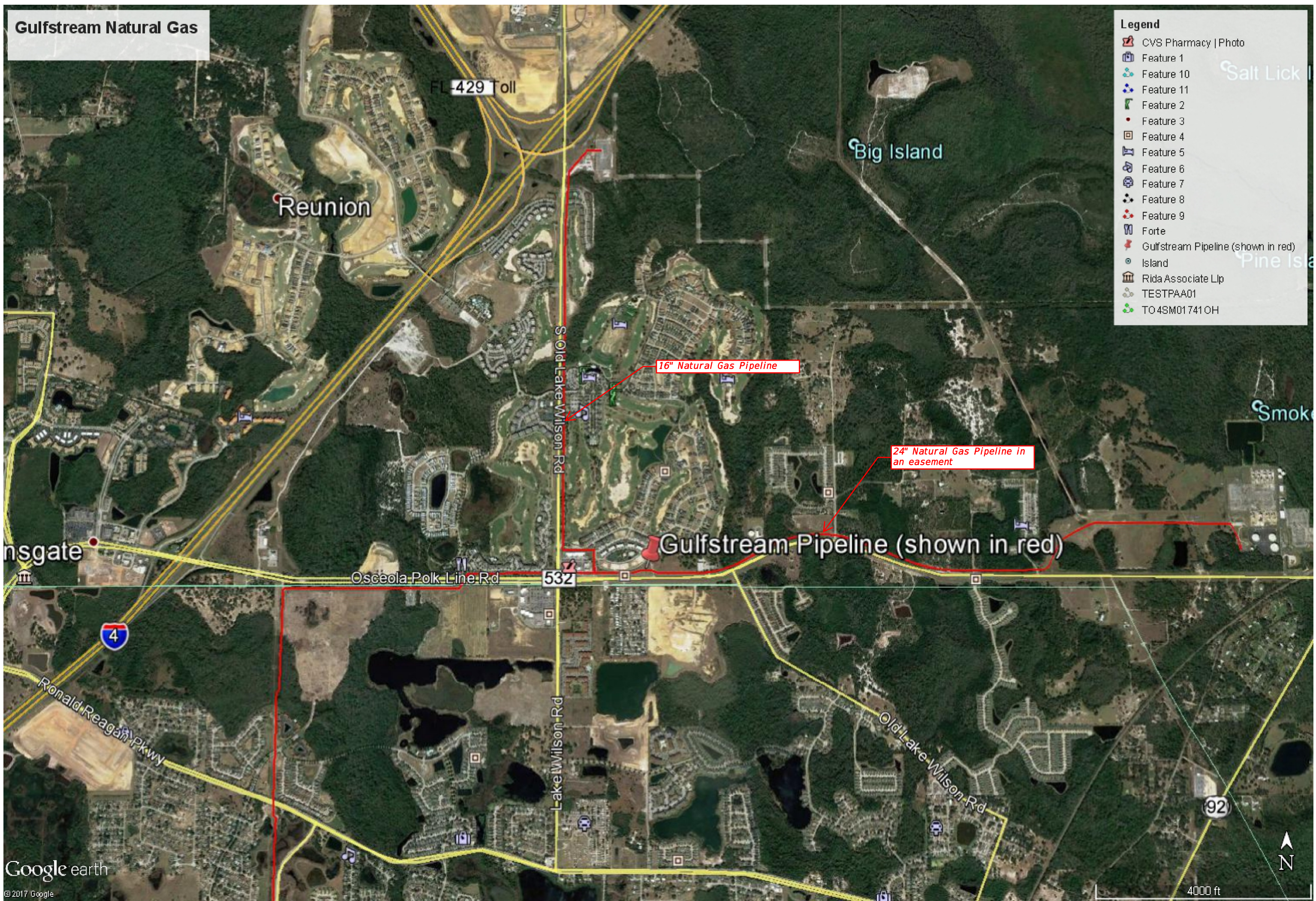
FLORIDA SOUTHEAST CONNECTION ALIGNMENT SHEET 1 POLK COUNTY, FLORIDA

SCALE: 1" = 200' 21040-510-ALS-00005 REV. 1

Gulfstream Natural Gas

Gulfstream Natural Gas

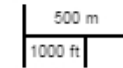
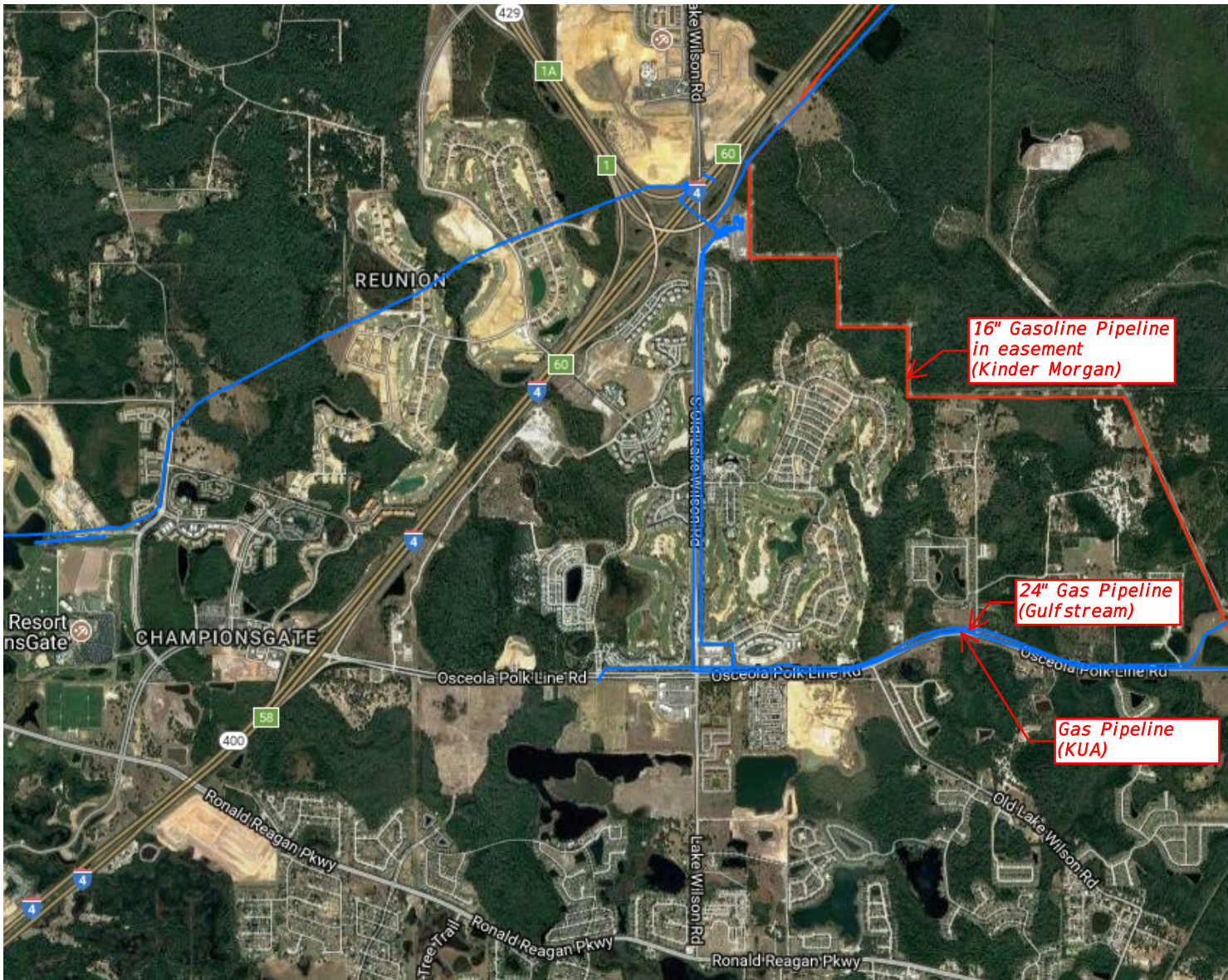
- Legend**
- CVS Pharmacy | Photo
 - Feature 1
 - Feature 10
 - Feature 11
 - Feature 2
 - Feature 3
 - Feature 4
 - Feature 5
 - Feature 6
 - Feature 7
 - Feature 8
 - Feature 9
 - Forte
 - Gulfstream Pipeline (shown in red)
 - Island
 - Rida Associate Llp
 - TESTPAA01
 - TO 4SM01741 OH



Kinder Morgan

Legend

- Gas Transmission Pipelines
- Hazardous Liquid Pipelines



Pipelines depicted on this map represent gas transmission and hazardous liquid lines only. Gas gathering and gas distribution systems are not represented.

This map should never be used as a substitute for contacting a one-call center prior to excavation activities. Please call 811 before any digging occurs.

Questions regarding this map or its contents can be directed to npms@dot.gov.

Projection: Geographic

Datum: NAD83

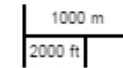
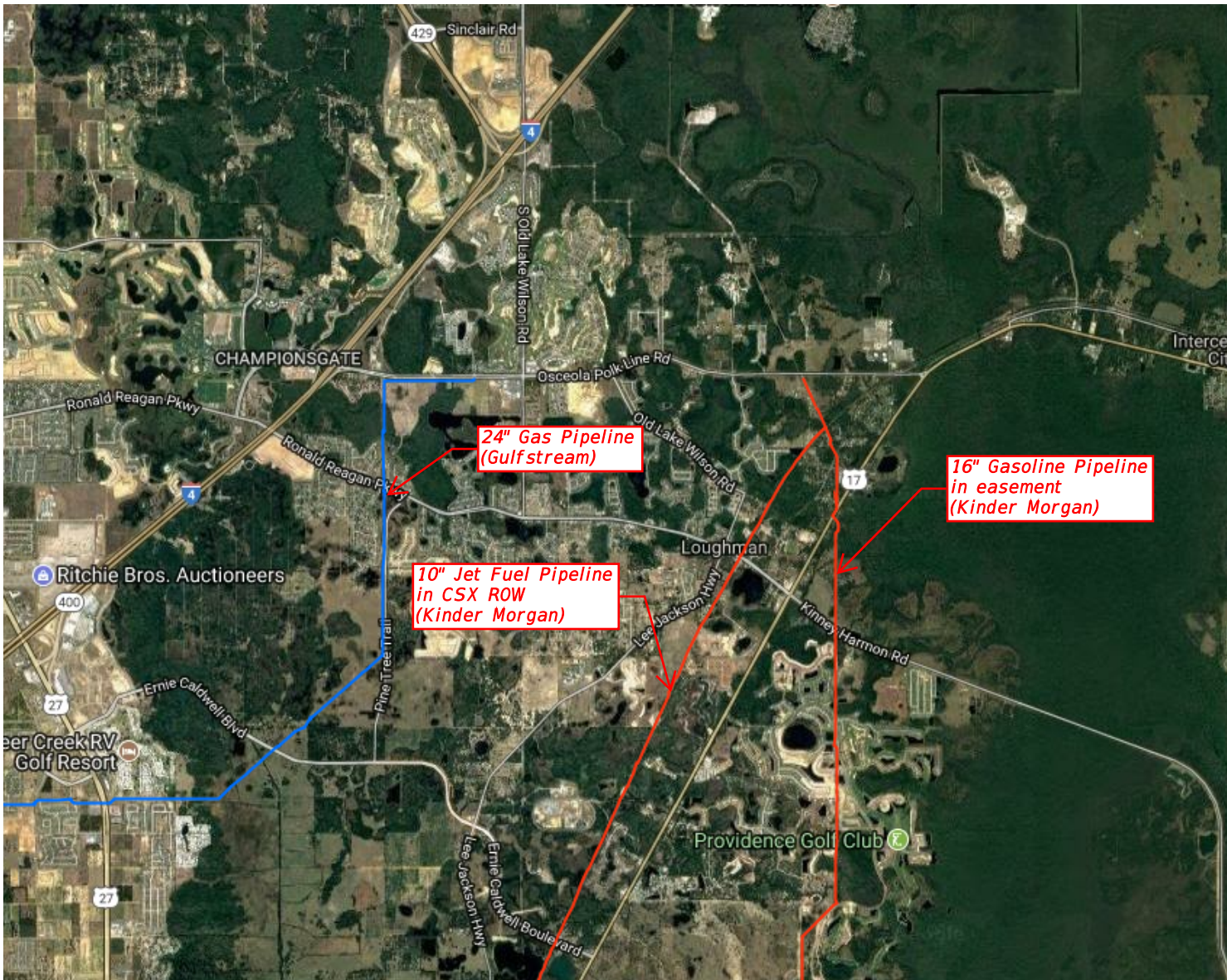
Map produced by the Public Viewer application at www.npms.phmsa.dot.gov

Date Printed: Sep 06, 2017



Legend

- Gas Transmission Pipelines
- Hazardous Liquid Pipelines



Pipelines depicted on this map represent gas transmission and hazardous liquid lines only. Gas gathering and gas distribution systems are not represented.

This map should never be used as a substitute for contacting a one-call center prior to excavation activities. Please call 811 before any digging occurs.

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Projection: Geographic

Datum: NAD83



Map produced by the Public Viewer application at www.npms.phmsa.dot.gov

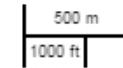
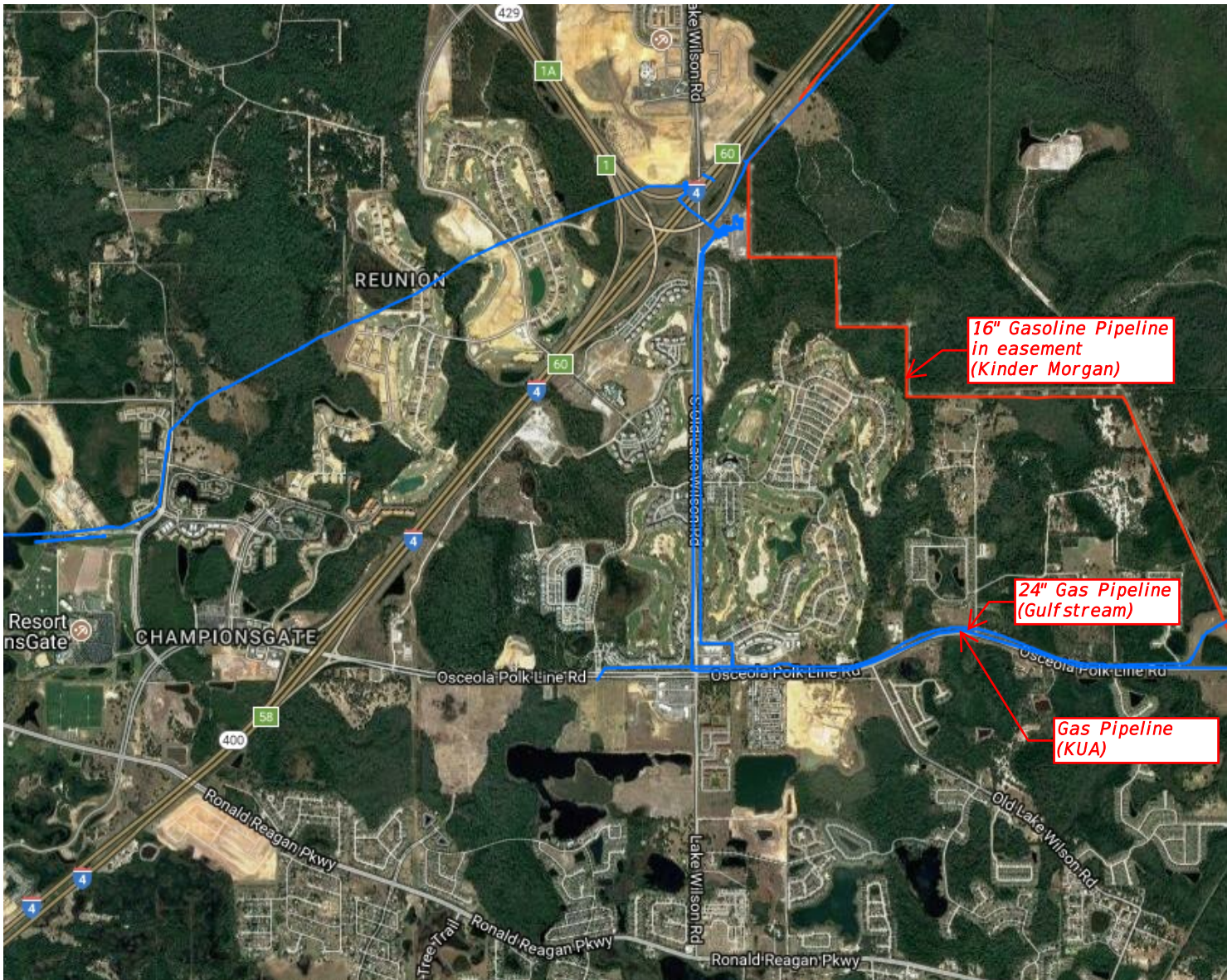
Date Printed: Sep 06, 2017



Kissimmee Utility Authority (Gas)

Legend

-  Gas Transmission Pipelines
-  Hazardous Liquid Pipelines



Pipelines depicted on this map represent gas transmission and hazardous liquid lines only. Gas gathering and gas distribution systems are not represented.

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Projection: Geographic

Datum: NAD83

Map produced by the Public Viewer application at www.npms.phmsa.dot.gov

Date Printed: Sep 06, 2017



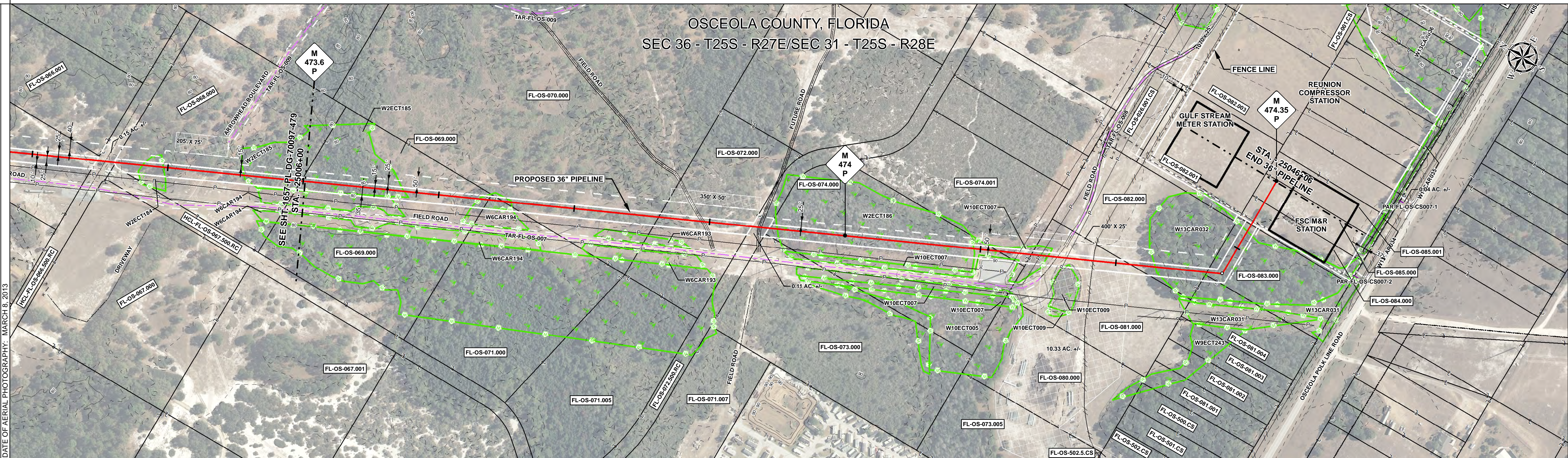
Spectra Energy – Sabal Trail

RIGHT - OF - WAY	CROSSING	<table border="1"> <tr> <td>TRACT NUMBERS</td> <td>25006+00</td> <td>FL-OS-069.000</td> <td>FL-OS-071.000</td> <td>FL-OS-070.000</td> <td>FL-OS-072.000</td> <td>FL-OS-072.500.RC</td> <td>FL-OS-074.000</td> <td>FL-OS-074.001</td> <td>FL-OS-081.000</td> <td>FL-OS-082.000</td> <td>FL-OS-083.000</td> <td>FL-OS-084.000</td> <td>FL-OS-085.000</td> <td>25046+00</td> </tr> <tr> <td>RODDAGE</td> <td></td> <td>44.2</td> <td>3.5</td> <td>36.8</td> <td>22.0</td> <td>4.0</td> <td>54.1</td> <td>7.9</td> <td>23.3</td> <td>18.1</td> <td>17.0</td> <td>6.1</td> <td>5.8</td> <td></td> </tr> </table>	TRACT NUMBERS	25006+00	FL-OS-069.000	FL-OS-071.000	FL-OS-070.000	FL-OS-072.000	FL-OS-072.500.RC	FL-OS-074.000	FL-OS-074.001	FL-OS-081.000	FL-OS-082.000	FL-OS-083.000	FL-OS-084.000	FL-OS-085.000	25046+00	RODDAGE		44.2	3.5	36.8	22.0	4.0	54.1	7.9	23.3	18.1	17.0	6.1	5.8	
TRACT NUMBERS	25006+00	FL-OS-069.000	FL-OS-071.000	FL-OS-070.000	FL-OS-072.000	FL-OS-072.500.RC	FL-OS-074.000	FL-OS-074.001	FL-OS-081.000	FL-OS-082.000	FL-OS-083.000	FL-OS-084.000	FL-OS-085.000	25046+00																		
RODDAGE		44.2	3.5	36.8	22.0	4.0	54.1	7.9	23.3	18.1	17.0	6.1	5.8																			
SURVEY DATA	<p>SURVEY COMPANY:</p> <p>FIELD BOOK:</p> <p>PAGES:</p> <p style="text-align: center;">CLASS 1</p>																															
CLASS LOCATION																																
DESIGN FACTOR																																
PIPE MATERIAL																																

ALIGNMENT DETAIL

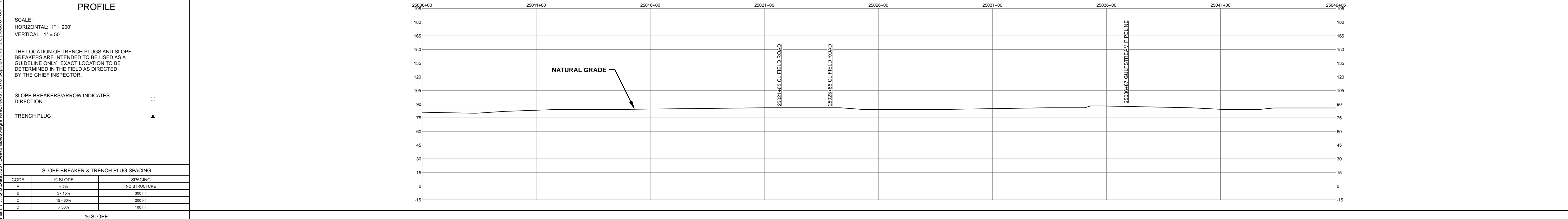
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- NO ENVIRONMENTAL SURVEY
- PROPOSED PERMANENT EASEMENT
- TEMP WORKSPACE
- ADD. TEMP. WORKSPACE
- CL STREAM/DRAIN/WATERBODY (ENV)
- CL CANAL/CREEK/DITCH (CIV)
- EDGE OF WATER
- CL LEVEE
- FIELD DELINEATED WETLAND
- NATIONAL WETLAND INVENTORY
- STREAM/DRAIN/WATERBODY BNDRY
- UNCONFIRMED WATERBODY
- MUNICIPAL BOUNDARY
- COUNTY BOUNDARY
- STATE BOUNDARY
- CL ROAD
- UNCONFIRMED ROAD
- EDGE OF ROAD
- CL RAILROAD
- UNCONFIRMED RAILROAD
- ACCESS ROAD (PAR)
- ACCESS ROAD (TAR)
- STRUCTURE
- CONTOUR MAJOR (EVERY 10')
- CONTOUR MINOR (EVERY 2')
- PIPELINE MILEPOST
- PIPELINE MILEPOST 10TH
- PROPERTY LINE
- UNDERGROUND UTILITY
- UNCONFIRMED UNDG. UTILITY
- OVERHEAD POWERLINE
- UNCONFIRMED O.H. POWERLINE
- OVERHEAD TELEPHONE
- VERIFIED PIPELINE
- UNCONFIRMED PIPELINE
- FENCE
- TOP / TOE
- GAS VALVE
- WELL
- GUY ANCHOR
- SEPTIC
- HDD ENTRY/EXIT
- SPREAD BREAK
- UTILITY POLE

DATE OF AERIAL PHOTOGRAPHY: MARCH 9, 2013



ENVIRONMENTAL SURVEY DATA	W2ECT185 PFO	W6CAR194 PEM	W2ECT186 PFO	W10ECT007 PEM	W13CAR032 PFO		
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SEE EROSION AND SEDIMENTATION CONTROL PLAN



REFERENCE DRAWINGS			REVISIONS			MATERIALS			ENGINEERING APPROVALS				SABAL TRAIL PROJECT PROPOSED 36" PIPELINE STA. 25006+00 TO STA. 25046+00 ALIGNMENT SHEET			
DWG. NO.	DESCRIPTION	REV	DRN	DATE	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.	TITLE	SIGNATURE	DATE	SIGNATURE				DATE
1657-PL-DG-32906	REUNION COMPRESSOR STATION (CS7), FSC & GULFSTREAM M&R	1		02/16/2015	ISSUED FOR PERMITTING					GIE	8/20/2014					
											LOC. OSCEOLA COUNTY, FLORIDA		YEAR: 2015 SHEET: 480 OF 480 SCALE: 1" = 200' DWG. 1657-PL-DG-70097-480 REV. 1			
											ENGINEERING APPROVALS					

Document Path: H:\GIS\Draw\1657\Deliverables\Alignment\Sheet\FERC_Supplemental_2\Spread\1657-PL-DG-70097-480.mxd

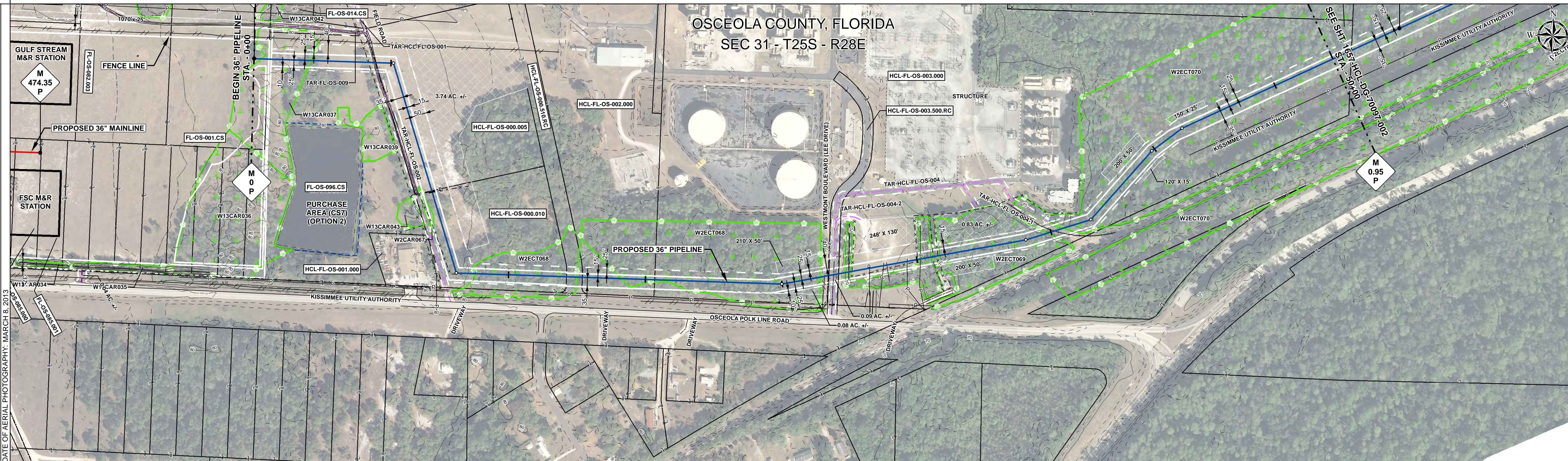
RIGHT - OF - WAY	CROSSING													
TRACT NUMBERS	FL-OS-001.CS	FL-OS-096.CS	HCL-FL-OS-000.005	HCL-FL-OS-000.010	HCL-FL-OS-000.510.RC	HCL-FL-OS-002.000	HCL-FL-OS-003.000	HCL-FL-OS-003.500.RC	HCL-FL-OS-003.000					
RODDAGE	3.4	25.1	4.89	35.2	19.51	45.9	3.7	16.9	21.47	40.8	2.9	2.9	129.7	50+00

SURVEY DATA	CLASS 1										CLASS 2										CLASS 1									
SURVEY COMPANY:																														
FIELD BOOK:																														
PAGES:																														

ALIGNMENT DETAIL

DATE OF AERIAL PHOTOGRAPHY: MARCH 8, 2013

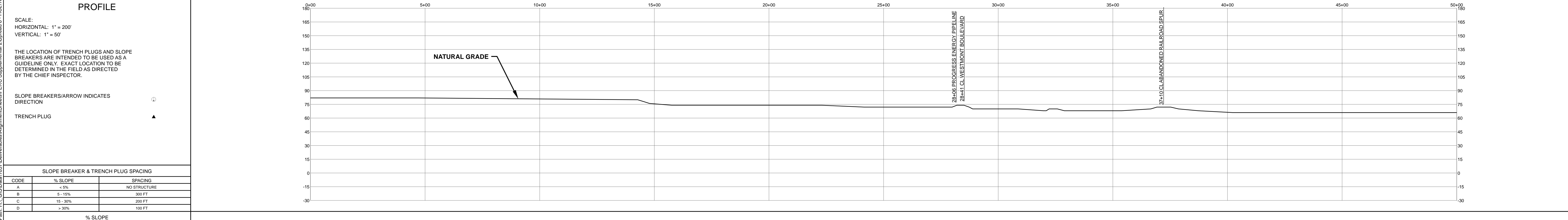
- PROPOSED PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMP WORKSPACE
- ADD. TEMP. WORKSPACE
- CL STREAM/DRAIN/WATERBODY (ENV)
- CL CANAL/CREEK/DITCH (CIV)
- EDGE OF WATER
- CL LEVEE
- FIELD DELINEATED WETLAND
- NATIONAL WETLAND INVENTORY
- STREAM/DRAIN/WATERBODY BNDRY
- UNCONFIRMED WATERBODY
- MUNICIPAL BOUNDARY
- COUNTY BOUNDARY
- STATE BOUNDARY
- CL ROAD
- UNCONFIRMED ROAD
- EDGE OF ROAD
- CL RAILROAD
- UNCONFIRMED RAILROAD
- ACCESS ROAD (PAR)
- ACCESS ROAD (TAR)
- STRUCTURE
- CONTOUR MAJOR (EVERY 10')
- CONTOUR MINOR (EVERY 2')
- PIPELINE MILEPOST
- PIPELINE MILEPOST 10TH
- PROPERTY LINE
- UNDERGROUND UTILITY
- UNCONFIRMED UNDG. UTILITY
- OVERHEAD POWERLINE
- UNCONFIRMED O.H. POWERLINE
- OVERHEAD TELEPHONE
- VERIFIED PIPELINE
- UNCONFIRMED PIPELINE
- FENCE
- TOP / TOE
- GAS VALVE
- GUY ANCHOR
- HDD ENTRY/EXIT
- WELL
- SEPTIC
- UTILITY POLE
- SPREAD BREAK



REFERENCE DRAWING										
ENVIRONMENTAL SURVEY DATA	W13CAR037 PEM	W2ECT068 PFO	W2ECT068 PFO	W2ECT069 PFO	W2ECT069 PFO	W2ECT070 PFO				

SITE SPECIFIC E & S

SEE EROSION AND SEDIMENTATION CONTROL PLAN



REFERENCE DRAWINGS		REVISIONS		MATERIALS		ENGINEERING APPROVALS				SABAL TRAIL PROJECT		
DWG. NO.	DESCRIPTION	REV	DRN	DATE	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.	TITLE		SABAL TRAIL PROJECT	
1657-PL-DG-32906	REUNION COMPRESSOR STATION (CS7), FSC & GULFSTREAM M&R	1		02/16/2015	ISSUED FOR PERMITTING				SIGNATURE		CONSTRUCTION	
									DATE		DATE	
									DRAWN BY: GIE		DRN DATE: 8/20/2014	
									CHECKED BY:		YEAR: 2015	
									CHK. DATE:		SHEET: 1 OF 14	
											SCALE: 1" = 200'	
											DWG. 1657-HCL-DG-70097-001	
											REV. 1	

Appendix 4
PD&E Project Preferred Alternative Exhibit

