TECHNICAL REPORT COVER

DRAFT UTILITY ASSESSMENT PACKAGE

Florida Department of Transportation

District 4

SR 5/ US 1 at Aviation Boulevard

Indian River, Florida

Financial Management Number: 441693-1-22-02

ETDM Number: 14475

March 2024

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



Final Utility Assessment Package

SR-5/US-1 at Aviation Boulevard, Indian River County, Florida

FPID Number: 441693-1-22-02

Prepared for:

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Date: March 18, 2024

Contents

Co	ntents		I
Ac	ronyms and	Abbreviations	ii
1.	Introduction	on	.1
	1.1	Project Background and Description	.1
	1.2	Proposed Build Alternatives	.2
2.	Purpose		.2
3.	Methodolo	ogy	.3
4.	Utility Age	ency Owners	.3
5.	Utility Des	cription	.5
6.	Build Impa	acts	.8
7.	Cost Estim	nates	.8
8.	Mitigation	Recommendations1	.3
Tal	bles		
1	Utility	Contact List from Sunshine 811 Ticket	4
2	Utility	Impacts from Proposed Build by Location	8
Fig	ures		
1	Project	t Location Map	.1
Ар	pendices		
Α		red Alternative Concept Plans	
В	•	e UAO Contact Letter	
С	Utility	Contact Plans	
D	Utility	Agency Owner Responses	

Acronyms and Abbreviations

BT Buried Telephone

CATV Cable Television

CR County Road

ETDM Efficient Transportation Decision-Making

F.A.C. Florida Administrative Code

FDOT Florida Department of Transportation

FOC Fiber Optic Cable

FM Force Main

FPID Financial Project Identification

FTE Florida's Turnpike Enterprise

No. Number

ROW Right-of-Way

OE Overhead Electric

OFOC Overhead Fiber Optic Cable

OT Overhead Telephone

PD&E Project Development and Environment

SEIR State Environmental Impact Report

SR State Route

UAM Utility Accommodation Manual

UAO Utility Agency Owner
UWE Utility Work Estimate

UWHCA Utility Work by Highway Contractor Agreement

WM Water Main

Introduction

1.1 Project Background and Description

The Florida Department of Transportation (FDOT) is conducting the SR-5/US-1 at Aviation Boulevard Project Development and Environment (PD&E) Study to evaluate potential capacity and operational improvements to the intersection of SR 5/US-1 and Aviation Boulevard/32nd Street, Indian River County, Florida. The existing roadway (Aviation Boulevard) connects to US-1 with two eastbound lanes and one westbound lane. The existing intersection has railroad crossing signals, traffic control signals, and pedestrian crossings. The west of the railroad crossing is property under the control of the Vero Beach Regional Airport. The airport has regulations that control construction for both ground (Runway Protection Zone) and aerial (Flight Surface) zones. Figure 1 shows the project location.

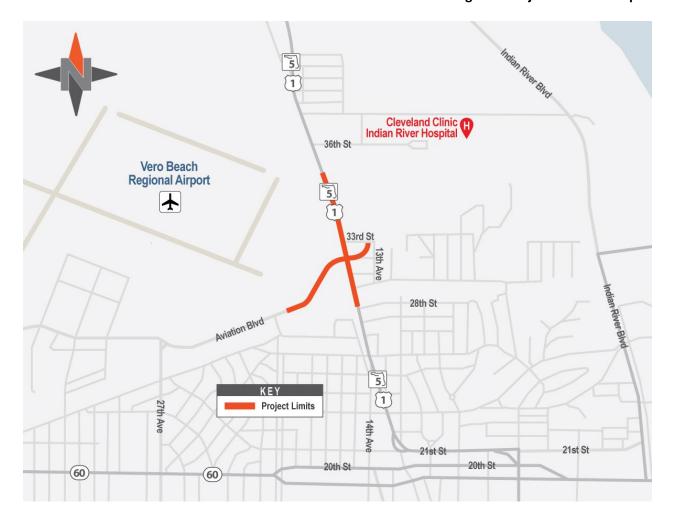


Figure 1. Project Location Map

The project aims to improve the intersection of SR 5/US 1 and Aviation Boulevard in Vero Beach, Florida. The proposed improvements included in the SR 5/US 1 at Aviation Boulevard project are to expand Aviation Boulevard and the existing railroad grade crossing to provide four eastbound lanes (1 right, 1 through, 2 lefts), a median separator, and two westbound through lanes. A shared-use path would be along the south side of Aviation Blvd and US-1 would be expanded to provide northbound dual left turns and southbound dual right turns. The project will include Roadway, Drainage, Signalization, and Lighting Design.

The primary purpose of the project is to evaluate intersection improvement solutions to address existing and projected traffic demands, improve safety, support economic growth, and enhance modal interrelationships with rail, bicycle, and pedestrian modes.

1.2 Proposed Build Alternative

As a result of the alternative analyses conducted for the project, a Preferred Alternative was identified for further analysis. The Preferred Alternative includes the recommended interchange /intersection concept and the overall SR 5/Aviation Boulevard corridor typical section and alignment. Appendix A provides the preliminary concept plans for the Preferred Alternative.

The Preferred Alternative for the project includes the following proposed improvements:

- Expanding the intersection of SR 5/US 1 at Aviation Boulevard to provide four eastbound lanes (1 right, 1 through, 2 lefts), a median separator, and two westbound through lanes to improve traffic flow.
- Milling and Resurfacing of Side Streets
- Swale Regarding
- Installation of sidewalks
- Drainage improvements
- Reconfiguration of the Traffic Signals
- Lighting Improvements
- New Signing and Pavement Markings

Purpose

A utility, as defined in FDOT's Utility Accommodation Manual (UAM), is all active, deactivated, or out-of-service electric transmission lines, telephone lines, telegraph lines, other communication services lines, pole lines, ditches, sewers, water mains, heat mains, gas mains, pipelines, gasoline tanks, and pumps owned by the Utility Agency Owner (UAO). Conflicts with utilities affect both the cost and schedule of a project and can influence the selection of the preferred alternative. FDOT must consider the potential for encountering utilities within the limits of the project, including associated pond sites and other off-site improvements. This Utility Assessment Package includes the identification of Utilities within the project area. The information can be used to avoid major utility conflicts and in choosing corridors or alternatives to carry forward. The goal of this effort is to assist with the development of project plans that avoid conflicts with major utility facilities. While it is important to determine all utility facilities within the study

limits, the focus is to identify the utility facilities that could: (a) entail lengthy or drawn-out coordination efforts, (b) may be cost-prohibitive to relocate, or (c) rise beyond the level of ordinary utility coordination.

Methodology

The process to discover utilities during the phase consists of three stages: UAO Coordination; and Utility Assessment Package.

The PD&E Request Package consists of the concept plans overlaid on an aerial background. A request is made for each UAO to provide information for above-ground and below-ground utility facilities within the PD&E project area, for both existing and planned utility facilities. Also included is a request for each UAO to provide information pertaining to any existing easements or other property interests that may be affected by the project. The contacted UAOs are requested to review the concept plans and identify their major utility facilities and other obstructions or encroachments within or adjacent to the project. Each UAO was to identify both existing and planned utility installations in, or adjacent to, the project limits. The UAOs are requested to respond in writing and delineate their facilities and any property interests on the concept plans, in accordance with Chapter 14-46, Florida Administrative Code (F.A.C.) and the Utility Accommodation Manual (UAM).

The Utility Coordination stage includes meetings with the UAOs to discuss utility impacts related to the project alternatives. The meetings included discussions for timelines for new installations or relocations that are anticipated to be unavoidable, potential relocation costs, and any easements or property interests that could be affected. The information provided by the UAOs was used in preparing the Utility Assessment Package.

Utility Agency Owners

The existing and proposed utility facilities within the study area were identified throughout the project corridor as part of this PD&E Study. A list of the existing Utility Agencies Owners (UAOs) was obtained by contacting Sunshine 811. A field review was also conducted to further identify any designated existing facilities in the project corridor. All the UAOs identified in the field were also noted on the Sunshine 811 list. The existing UAOs, the identified UAO contacts, and the facility type are summarized in Table 1.

Preliminary utility coordination was initiated through written communication to the listed utility contacts. The UAOs were informed of the PD&E study through notification letters and were requested to provide information regarding the location, type, dimension, and characteristics of any major utilities along or crossing the existing right-of-way. UAOs were requested to note if any utility facility is located within the FDOT right-of-way by easement or permit and to provide an order-of-magnitude worst-case estimate for the cost of relocating any utilities affected by the proposed project. The information obtained from the UAOs is documented in this technical memorandum.

TABLE 1: UTILITY CONTACT LIST FROM SUNSHINE 811

Utility Agency Owner	Contact	Utility Type	Comments		
AT&T Florida 7747 Ellis Rd, W Melbourne, FL 32904	Mark Linscott 321-388-9376 ml9322@att.com	Telephone	Index Maps provided		
AT&T Transmission 6000 Metro West Blvd Ste 201 Orlando, FL. 32835-7631	Kenneth Wagner 407-578-8000 swagner@pea-inc.com	Communication Lines, Fiber	Marked plans provided		
City of Vero Beach 17-17th Street PO Box 1389 Vero Beach, Florida 32961- 1389	Todd Young 772-978-5209 TYoung@covb.org	Water, Wastewater	Marked plans and CADD provided		
Comcast 1401 Northpoint Pkwy, West Palm Beach, FL 33407	Timothy Henes 561-325-2963 Timothy Henes@comcast.com	CATV	Marked plans provided		
Crown Castle 1601 NW 136 Avenue, Suite A-200 Sunrise, FL 33323	Danny Haskett 786-246-7827 danny.haskett@crowncastle.com	Fiber	Utility Maps provided		
Florida City Gas/NextEra 4045 NW 97th Ave. Doral, FL. 33178	Elio A. Bustos, P.E. 786-481-9307 EBustosCaba@chpk.com	Gas	Marked plans provided		
FP&L Distribution 4406 SW Cargo Way Palm City, FL 34990	Rob Morris 772-223-4215 rob.morris@fpl.com	Electric	Marked plans provided		
FP&L Transmission 15430 Endeavor Dr, Jupiter, FL 33478	Martin Mikhail 561-993-6825 Martin.Mikhail@fpl.com	Electric	Marked plans provided		
Indian River County Utilities 1801 27th Street – Building A, Vero Beach, FL 32960	Harrison Youngblood 772-226-4343 hyoungblood@ircgov.com	Sewer, Water	GIS Maps provided		
Lumen (CenturyLink) National 7003 Presidents Dr. Suite 100, Orlando, FL 32809	Michael Hunt 716-480-2073 michael.hunt@lumen.com	Fiber	Utility Maps provided		
Resurgence Infrastructure Group 608 Huck Finn Dr. Crestview, FL 32536	Laura Glass 850-826-0846 laura.glass@glass811.com	Fiber	Marked plans provided		

Sprint 360 S. Lake Destiny Dr., Ste. A Orlando, FL 32810	Jon Baker 352-409-5095 jabaker@cogentco.com	Fiber	Email
Verizon 4700 Exchange Ct. Boca Raton, FL 33431	Donovan Carr 954-213-1959 donovan.carr@verizon.com	Communication Lines, Fiber	Marked plans provided

Utility Description

The existing utility facilities include power, gas, water, wastewater, and communications. A preliminary plan set with the aerial background was sent to all identified UAOs within the project area. The plan set was provided for their use in documenting their facilities. Information received from the various UAOs can be found in the Appendix.

Based on the initial utility coordination effort, no proposed utility facilities were identified within the existing or proposed right-of-way. The general location of the existing utility facilities described below is based on the Utility Agency Owners' response and their accompanied documents. The exact locations of the existing utilities and the extent of impacts will be determined during the design phase of this project. Coordination with the UAOs during the design phase will assist in minimizing relocation adjustments and disruptions of service to the public.

Provided below is a summary of the existing facilities within the project corridor. All stations provided are approximate.

AT&T Florida owns the following facilities within the project's study area.

- (2) 1800PR Direct Buried Copper Cables west side of SR 5, running south from the ending of the project and turning east along the north side of 33rd St.
- 1800PR Direct Buried Copper Cable west side of SR 5, running south from 33rd St. and turning east along the north side of 31st St.
- Direct Buried Copper Cable on the west side of SR 5, running north-south along the entire project limit.
- 1800PR Direct Buried Copper Cable west side of SR 5, running south from approximately 100' north of 31st St. and turning east along the north side of 31st St.
- 200PR Buried Copper Cable in 1-4" PVC Conduit crossing SR 5 just south of 31st St.
- Overhead Telephone on the east side of SR 5, running north from 31st St. to the ending project limit.

AT&T Transmission owns the following facilities within the project's study area.

• 1-2" BFOC HDPE Duct within the FEC Railroad right of way, running north-south along the entire project limits.

The City of Vero Beach owns the following facilities within the project's study area.

• 8" CIP Water Main on the east side of SR 5, running north from the beginning of the project to a Gate Valve south of the Main Canal Bridge.

- 12" CIP Water Main on the east side of SR 5, running north from a Gate Valve south of the Main Canal Bridge to a Gate Valve south of 30th St.
- 8" CIP Water Main east side of SR 5, running north from Gate Valve south of 30th St. past project limits.
- 8" DIP Water Main east side of SR 5, running east along the south side of 30th St.
- 16" DIP Water Main crossing SR 5 at the north side of the Main Canal Bridge, running west from a Gate Valve on the east of SR 5 to a Gate Valve outside the right of way.
- 12" DIP Sanitary Force Main crossing SR 5 within a 20" Steel Casing, running west from 30th St. to the outside of the right of way.
- 16" PVC Water Main crossing SR 5 within a 30" Steel Casing, running west from 13th Ave, along 31st St. to the outside of the right of way.
- 8" V.C.P Sanitary Sewer Main Along 31st St., running 375' west from a Manhole on 13th Ave to another Manhole on 31st St.
- 8" V.C.P Sewer Laterals along 31st St. running between 13th Ave and SR 5.
- 16" PVC Re-Use Water Main along 31st St. running from 13th Ave to SR 5.
- 2" PE Water Laterals along 31st St. running between 13th Ave and SR 5
- 2.5" PVC Water Main along 32nd St. running from 13th Ave to SR 5.
- 1" PE Water Laterals along 32nd St. running between 13th Ave and SR 5.
- 2.5" PVC Water Laterals Casing along 32nd St. running between 13th Ave and SR 5.
- 8" V.C.P Sanitary Sewer Main along 32nd St. running between 13th Ave and SR 5.
- 8" V.C.P Sewer Laterals along 32nd St. running between 13th Ave and SR 5.
- 24" PVC Effluent Transmission Force Main crossing SR5 within a 42" Steel Casing, running east from the western right-of-way line to 13th Ave through 33rd St.
- 8" V.C.P Sanitary Sewer Main along 33rd St., running 475' west from a Manhole on 13th Ave to another Manhole on 33rd St.
- 8" V.C.P Sewer Laterals along 33rd St. running between 13th Ave and SR 5.
- 6" PVC Water Main along 33rd St. running between 13th Ave and SR 5.
- 1" PE Water Laterals along 33rd St. running between 13th Ave and SR 5.
- 2.5" PVC Water Laterals Casing along 33rd St. running between 13th Ave and SR 5.
- 14" DIP Water Main Crossing Aviation Blvd west of the FEC Railroad right of way, running from right of way to right of way.
- Water Meters on the east side of SR 5, between the beginning and ending project limits, and along 31st St., 32nd St., and 33rd St.
- Water Valves on the east side of SR 5, between the beginning and ending project limits.
- Sanitary Air Release Valves along 30th and 33rd St.
- Water Main Air Release Valve along 31st St.
- Sanitary Sewer Manholes along 32nd and 33rd St.
- Fire Hydrants on the east side of SR 5, between the beginning and ending project limits.

Comcast owns the following facilities within the project's study area.

- Overhead Cable TV on the east side of SR 5, running north from a pole south of 31st St., turning east and running on the northside 31st St.
- Overhead cable TV on the east side of SR 5, running north from a pole north of 32nd St. past project limits.
- Overhead cable TV on the east side of SR 5, running east from a pole at the north side of 33rd St. to 13th Ave.

Crown Castle owns the following facilities within the project's study area.

• 288 Count Buried FOC on the east side of SR 5, running north-south along the entire project limits.

Florida City Gas/NextEra owns the following facilities within the project's study area.

• 6" PE Gas Main on the east side of SR 5, running south from the end of the project and turns east on the north side of 32nd St. for approximately 50 ft to a Gas Valve. It runs west from the Valve across SR 5 and continues on the north side of Aviation Blvd past project limits.

FP&L Distribution owns the following facilities within the project's study area.

- 120V Overhead Electric crossing SR 5 north of 30th St., running from a pole on the west side of SR 5 to a pole on the east side of SR 5.
- 2 Phase 13KV Overhead Electric on the east side of SR 5, running from a pole north of 30th St. to a pole on the north side of 33rd St.
- 3 Phase 13KV Overhead Electric on the east side of SR 5, running north from a pole on the north side of 33rd St. past project limits.
- 3 Phase 13KV Overhead Electric crossing SR 5., running east from beyond the western right-ofway line to 13th Ave to 13th Ave along the north side of 33rd St., turning south on the west side of 13th Ave. and running past project limits.
- 3 Phase 13KV Overhead Electric Crossing Aviation Blvd just west of the FEC Railroad right of way.
- 3 Phase 13KV Buried Electric Crossing Aviation Blvd just west of the FEC Railroad right of way.

FP&L Transmission owns no facilities within the project's study area.

No facilities

Indian River County Utilities owns no facilities within the project's study area.

No facilities

Lumen (CenturyLink) National owns the following facilities within the project's study area.

• 3-2" HDPE Duct within the FEC Railroad right of way, running north-south along the entire project limits.

Resurgence Infrastructure Group owns the following facilities within the project's study area.

• 528 Count fiber in 1-1.5" HDPE Duct within the FEC Railroad right of way west of SR 5, running north-south along the entire project limits.

Sprint owns the following facilities within the project's study area.

• 96 Count fiber in 1-2" HDPE Duct within the FEC Railroad right of way, running north-south along the entire project limits.

Verizon owns the following facilities within the project's study area.

- 12 and 24 Count fiber in 1-2" HDPE Duct within the FEC Railroad right of way, running north-south along the entire project limits.
- 96 Count fiber in 1-2" HDPE Duct within the FEC Railroad right of way, running north-south along the entire project limits.

Build Impacts

The estimated impacts to utility facilities resulting from the recommended Build alternative are itemized by location in Table 2, along with estimated relocation costs. It should be noted that no cross-section information has been provided at this time. The estimated impacts are based on the data provided by the UAO as previously summarized. Actual utility impacts will be verified during the design phase when a detailed survey and subsurface utility information are available.

It is anticipated the municipal water and sewer providers (City of Vero Beach) may request a Utility Work by Highway Contractor Agreement (UWHCA), as demonstrated on past projects of similar scope, dependent on the magnitude of impact to their facilities.

Cost Estimates

Conservative utility relocation estimates based on the Preferred Alternative were requested as part of the utility coordination process and subsequent follow-up with the Utility Agency Owners. The total combined estimated cost for relocations, regardless of the UAO's potential for reimbursement, is \$3,320,325.73.

TABLE 2: UTILITY IMPACTS FROM PROPOSED BUILD BY LOCATION

Utility Type	Transverse or Adjacent	General Location	Size	Approx. Conflict Length	Impacts	Cost Estimate			
	AT&T FLORIDA								
(2) BT	Adjacent	West side of SR 5, running south from the end of the project and turning east along the north side of 33rd St.	1800PR Copper	930'	Roadway construction SR 5	\$110,500.00			
ВТ	Adjacent	West side of SR 5, running south from 33 rd St. and turning east along the north side of 31 st St.	1800PR Copper	910'	Roadway construction SR 5	\$54,750.00			
ВТ	Adjacent	West side of SR 5, running north-south along the entire project limits.	1800PR Copper	2780'	Roadway construction SR 5	\$101,500.00			
(2) BT	Adjacent	West side of SR 5, running south from approximately 100' north of 31st St. and turning east along the north side of 31st St.	1800PR Copper	270'	Roadway construction SR 5	\$77,500.00			
BT, 1-4" PVC Conduit	Transverse	Crossing SR 5 just south of 31 st St.	200PR in 4" PVC Conduit	155'	Roadway construction SR 5	\$131,875.00			
ОТ	Adjacent	East side of SR 5, running north from 31st St. to the ending project limit.	1800PR Copper	1620'	Roadway construction SR 5	\$48,200.00			
AT&T TRANSMISSION									
BFOC	Transverse	Within the FECRR ROW, crossing Aviation Blvd.	1-2" HDPE	110'	Roadway construction intersection of SR 5 and Aviation Blvd.	\$20,001.12			

Utility Type	Transverse or Adjacent	General Location	Size	Approx. Conflict Length	Impacts	Cost Estimate
		CITY OF VE	RO BEACH			
WM	Adjacent	East side of SR 5, running north from the beginning of the project to south of the Main Canal Bridge to a Gate Valve.	8" CIP	170'	Roadway construction SR 5	\$60,644.20
WM	Adjacent	East side of SR 5, running north from a Gate Valve just south of the Main Canal Bridge to a Gate Valve south of 30th St.	12" CIP	190'	Roadway /Bridge construction SR 5	\$80,698.98
WM	Adjacent	East side of SR 5, running north from a Gate Valve south of 30th St. past project limits.	8" CIP	2420'	Roadway construction SR 5	\$798,120.40
WM	Transverse	East side of SR 5, running east along the south side of 30 th St.	8" DIP	80'	Roadway construction SR 5	\$31,358.20
WM	Transverse	Crossing SR 5 at the north side of the Main Canal Bridge running west from the Gate Valve on the east of SR 5 to a Gate Valve outside the ROW.	16 DIP	245'	Roadway/ Bridge construction SR 5	\$61,246.00
FM	Transverse	Crossing SR 5, running west from 30 th St. to the outside of the right of way.	12" DIP	390'	Roadway construction SR 5	\$54,117.08
Casing	Transverse	Crossing SR 5, running west from 30 th St. to the outside of the ROW.	20" Steel	180'	Roadway construction SR 5	\$43,120.80
WM	Transverse	Crossing SR5, running west from 13 th Ave, along 31 st St. to the outside of the ROW.	16" PVC	250'	Roadway construction SR 5	\$55,056.00
Casing	Transverse	Crossing SR 5, running west from 31 st St. to the outside of the ROW.	30" Steel	200'	Roadway construction SR 5	\$102,502.00
Sanitary Sewer Main	Adjacent	Along 31 st St., running 375' west from a Manhole on 13 th Ave to another Manhole on 31 st St.	8" V.C.P	375'	Roadway construction 31 st St.	\$17,468.75
Sewer laterals	Transverse	Along 31 st St. running between 13 th Ave and SR 5.	(8) 8" V.C.P	120"	Roadway construction 31 st St.	\$7,358.00
Reuse WM	Adjacent	Along 31st St. running from 13th Ave to SR 5.	16" PVC	425"	Roadway construction 31 st St.	\$87,081.00
Water laterals	Transverse	Along 31 st St. running between 13 th Ave and SR 5	2" PE	22'	Roadway construction 31 st St.	\$496.32
WM	Adjacent	Along 32 nd St. running from 13 th Ave to SR 5.	2.5 PVC	594'	Roadway construction 32 nd St.	\$13,994.64
Water Laterals	Transverse	Along 32 nd St. running between 13 th Ave and SR 5.	(10)1" PE	224'	Roadway construction 32 nd St.	\$10,447.36
Water Laterals Casing	Transverse	Along 32 nd St. running between 13 th Ave and SR 5.	(3)2.5" PVC	60'	Roadway construction 32 nd St.	\$1,413.60
Sanitary Sewer Main	Adjacent	Along 32 nd St. running between 13 th Ave and SR 5.	8" V.C.P	200'	Roadway construction 32 nd St.	\$10,530.00

Utility Type	Transverse or Adjacent	General Location	Size	Approx. Conflict Length	Impacts	Cost Estimate	
		CITY OF VE	RO BEACH				
Sewer laterals Transverse Along 32 nd St. running between 13 th Ave and SR 5. (10)8" V.C.P 150" Roadway construction 32 nd St.							
Effluent Transmission Force Main	Transverse	Crossing SR 5, running east from the western ROW line to 13 th Ave through 33 rd St.	24" PVC	900'	Roadway construction SR 5/33 rd St.	\$203,924.78	
Casing	Transverse	Crossing SR 5 and FECRR ROW at 33 rd St.	42" Steel	240'	Roadway construction SR 5	\$132,000.00	
Sanitary Sewer Main	Adjacent	Along 33 rd St., running 475' west from a Manhole on 13 th Ave to another Manhole on 33 rd St.	8" V.C.P	475'	Roadway construction 33 rd St.	\$21,433.75	
Sewer laterals	terals Transverse Along 33 rd St. running between 13 th Ave and SR 5. (11)8" V.C.P 165" Roadway construction 33 rd St.		\$9,142.25				
WM	Adjacent	Along 33 rd St. running between 13 th Ave and SR 5.	6" PVC	686"	Roadway construction 33 rd St	\$91,265.44	
Water Laterals				\$20,568.24			
Water Laterals Casing	Transverse	Along 33 rd St. running between 13 th Ave and SR 5.	(6)2.5" PVC	120'	Roadway construction 33 rd St.	\$2,827.20	
Water Main	Transverse	Crossing Aviation Blvd west of the FECRR ROW running from right of way to right of way	14" DIP	92'	Roadway Construction Aviation Blvd.	\$18,439.60	
Water / Sewer Valve	Adjacent	East side of SR 5, between the beginning and ending project limits	8" CIP, 12" PVC, 12" CIP, 2" GIP, 2" HDPE	16 each	Roadway construction SR 5	\$70,193.04	
Water Meter	Adjacent	East side of SR 5, between the beginning and ending project limits	1" GIP, 2" GIP, 2" HDPE	5 each	Roadway construction SR 5	\$3,620.00	
Water Main Air Release Valve	Adjacent	East side of SR 5 at the north side of 31st St.	16" PVC	1 each	Roadway construction SR 5	\$22,081.86	
Water Meter	Transverse	East side of SR 5 along 31 st St.	1" PE	2 each	Roadway construction 31 st St.	\$1,448.00	
Sanitary Sewer Manhole	Adjacent	East side of SR 5 at Sta. at 32 nd St.	8" V.C.P	3 each	Roadway construction SR 5	\$5,805.45	
Water Meter	Transverse	East side of SR 5 along 32 nd St.	1" PE	12 each	Roadway construction 31 st St.	\$8,688.00	
Sanitary Sewer Manhole	Transverse	East side of SR 5 along 33 rd St.	8" V.C.P	3 each	Roadway construction 33 rd St.	\$5,805.45	
Water Meter	Transverse	East side of SR 5 along 33 rd St.	1" PE	14 each	Roadway construction 31st St.	\$10,136.00	
Fire Hydrant	Adjacent	East side of SR 5, between the beginning and ending project limits		4 each	Roadway construction SR 5	\$31,387.48	

Utility Type	Transverse or Adjacent	General Location	Size	Approx. Conflict Length	Impacts	Cost Estimate		
COMCAST								
OFOC	OFOC Adjacent East side of SR 5, running north from pole to pole for approximately 200' north of 30 th St. East side of SR 5, running north from pole to pole for approximately 200' north of 30 th St.		Roadway construction SR 5	\$31,739.84				
OFOC	Adjacent	East side of SR 5, running east from a pole at 31 st St. past project limits along the north side of 31 st St.		90'	Roadway construction SR 5	\$31,260.24		
OFOC	Adjacent	East side of SR 5, running north from a pole at 32 nd St. passing project limit		1600'	Roadway construction SR 5	\$37,843.84		
OFOC	Adjacent	East side of SR 5, running east from a pole at 33 rd St. past project limits along the north side of 33rd St.		135'	Roadway construction SR	\$31,456.44		
		CROWN	CASTLE	1				
BFOC	Adjacent	East side of SR 5, running north-south along the entire project limits.	288 Count Fiber	2,780'	Roadway and Bridge Construction SR 5	\$136,842.24		
Pull Box #205198	Adjacent	East side of SR 5, approximately 580' north of 33 rd St.		1 each	Roadway construction SR 5	\$1,849.13		
Pull Box #205201	Adjacent	East side of SR 5, approximately 200' south of 32 nd St.		1 each	Roadway construction SR 5	\$1,849.13		
Pull Box #280778	Adjacent	East side of SR 5, approximately 50' south of 30 th St.		1 each	Roadway construction SR 5	\$1,849.13		
Pull Box #208777	Adjacent	East side of SR 5 approximately 240' south of 30 th St.		1 each	Roadway construction SR 5	\$1,849.13		
Pull Box #205204	Adjacent	East side of SR 5, approximately 130' south of 29 th St.		1 each	Roadway construction SR 5	\$1,849.13		
FLORIDA CITY GAS/ NEXTERA								
Gas Main	Gas Main Adjacent East side of SR 5, running south from the end of the project to 32 nd St. and turning east on the north side of 32nd St. for approximately 50 ft to a Gas Valve. East side of SR 5, running south from the end of the project to 32 nd St. and turning east on the north side of 32nd St. for approximately 50 ft to a Gas Valve.		\$67,232.00					
Gas Main	Transverse	Crossing SR 5, running west from a Gas Valve on the north side of 32 nd St. to the north side of Aviation Blvd going past the project limit.	6" PE	1010'	Roadway construction SR 5/Aviation Blvd	\$61,154.50		

Utility Type	Transverse or Adjacent	General Location	Size	Approx. Conflict Length	Impacts	Cost Estimate		
FPL DISTRIBUTION								
OE	Transverse	Crossing SR 5, running east from a pole on the west side of SR 5 to a pole on the east side of SR 5 approximately 120' north of 30 th St.	120V	85'	Roadway construction SR 5	\$934.15		
OE			Roadway construction SR 5	\$36,000.00				
OE	Adjacent	The east side of SR 5, running north from the north side of 33 rd St. and going past the project limit on SR 5.	3 PH 13KV	920'	Roadway construction SR 5	\$18,000.00		
OE	Transverse	The east side of SR 5, running along the north side of 33rd St., turns south on the west side of 13th Ave. and goes past the project limit.	3 PH 13KV	550'	Roadway construction SR 5/ 33 rd St.	\$12,000.00		
BE	Transverse	Crossing Aviation Blvd just west of the FECRR ROW.	3 PH 13KV	105'	Roadway Construction Aviation Blvd.	\$40,000.00		
		LUMEN (CEN	ITURYLINK)					
BFOC	Transverse	Within the FECRR ROW, crossing Aviation Blvd.	3-2" HDPE	110'	Roadway construction intersection of SR 5 and Aviation Blvd.	\$60,003.36		
		RESURGENCE INFRA	STRUCTURE	GROUP				
BFOC	Adjacent	Within the FECRR ROW, crossing Aviation Blvd.	1-1.5" conduit, 528 Count BFOC	110'	Roadway construction intersection of SR 5 and Aviation Blvd.	\$61,194.54		
		SPR	INT					
BFOC	Adjacent	Within the FECRR ROW, crossing Aviation Blvd.	1-2" conduit, 96 Count BFOC	110'	Roadway construction intersection of SR 5 and Aviation Blvd.	\$14,734.38		
		VERI	ZON					
BFOC	Adjacent	Within the FECRR ROW, crossing Aviation Blvd.	1-2" conduit, 12, 24 Count BFOC	110'	Roadway construction intersection of SR 5 and Aviation Blvd.	\$8,656.68		
BFOC	Adjacent	Within the FECRR ROW, crossing Aviation Blvd.	1-2" conduit, 96 Count BFOC	110'	Roadway construction intersection of SR 5 and Aviation Blvd.	\$14,734.38		

Mitigation Recommendations

Mitigation measures should consider the following:

- The accurate location of all underground facilities to confirm a clear or conflict determination,
- The accurate location of all aerial facilities to confirm a clear or conflict determination,
- An innovative design approach to avoid the utility facilities and minimize impacts,
- The UWHCA option for unavoidable relocation of the water and sewer facilities,
- Minimizing the duration of unavoidable service disruptions,
- Allowing service disruption only during periods of no or minimum usage,
- Maintaining utility connections in temporary locations,
- Installing alternative or new facilities before disconnecting the existing facilities,
- Completion of the necessary utility work prior to the start of roadway construction, or prioritize the utility work to avoid the first phases of roadway construction,
- Removing Occupational Safety and Health Administration (OSHA) crane conflicts and utilizing low overhead construction techniques.

Append	ices
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Appendix A

Preferred Alternative Concept Plans



Preferred Alternative (Alternative 1)

State Road (SR) 5/US 1 at Aviation Boulevard

Project Development and Environment (PD&E) Study
Indian River County, Florida
Financial Project ID: 441693-1-22-02
Efficient Transportation Decision Making (ETDM) Number: 14475



Draft Alternative
March 17th 2024

Α	pp	enc	lices
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Appendix B

Sample UAO Contact Letter



October 25, 2022

RE: ADJUSTMENT OF UTILITIES – STATE STATUTES CHAPTER 337.403

Project: SR-5(US-1) at Aviation Boulevard PD&E Study

Description: Aviation Blvd PD&E Study from 27th Ave to US1/SR5 and SR5 from 21st St. to 37th St.

County: Indian River County FPID: 441693-1-22-02

Project Development & Environmental (PD&E) Utility Assessment Report

The Florida Department of Transportation (FDOT), is conducting a Project Development and Environment (PD&E) Study for the improvements to the above roadway(s). The PD&E study limits begin at Aviation Blvd. & 27th Ave and go east to US1/SR5, then continue along US from 21st St., north to 37th St. (See Attached Project Location map). In order to determine the best alternative for this project, we need to determine the location and anticipated impacts for all existing, proposed and out-of-service utility facilities within the project study limits, both underground and overhead.

For this purpose we are requesting your office mark on the attached plans (plans dated September 15, 2022), all your existing, proposed and out-of-service utility facilities, both inside and along the project study right-of-way lines, and/or within the limits as shown. We are further asking you return the marked plans and requested information (hard copy or electronic) to this office before *November 22, 2022*.

Please provide with your response the following information:

- Updated contact information for your Agency/Owner, providing name, phone, email and address.
- Attached plans marked to indicate the location, type and size of your existing, proposed and out-of-service
 facilities within the study limits, and indicate whether underground or aerial. Along with the marked plans,
 provide any atlas maps, GIS or other additional plans or information that might help to describe and define
 your facilities.
- Marked plans to show the limits of any easements, subordinations, or other property interests you may have along or within the study limits, and any existing or proposed encroachments onto those properties.
- A lump sum order-of-magnitude relocation cost estimate that approximates the cost to adjust or relocate
 <u>all</u> of your utilities within the project study limits. This estimate will not influence any detailed estimates
 furnished later; it is for the purpose of addressing any major impacts.
- An estimate of the time frames to relocate <u>all</u> of your utilities within the project limits. This estimate will not influence any detailed time frames furnished later.
- Whether you agency would be interested in entering a Utility Work by Highway Contractor Agreement, including whether this would include affected facilities or proposed installations.
- If you do not have any utility facilities within the study limits, please provide a No Facilities Letter.

Thank you for your attention and cooperation to this matter. Your input and continued cooperation on this project is essential. Should you have any questions do not hesitate to contact me directly at 561-713-1683, or send email to matthew.phillips@wginc.com.

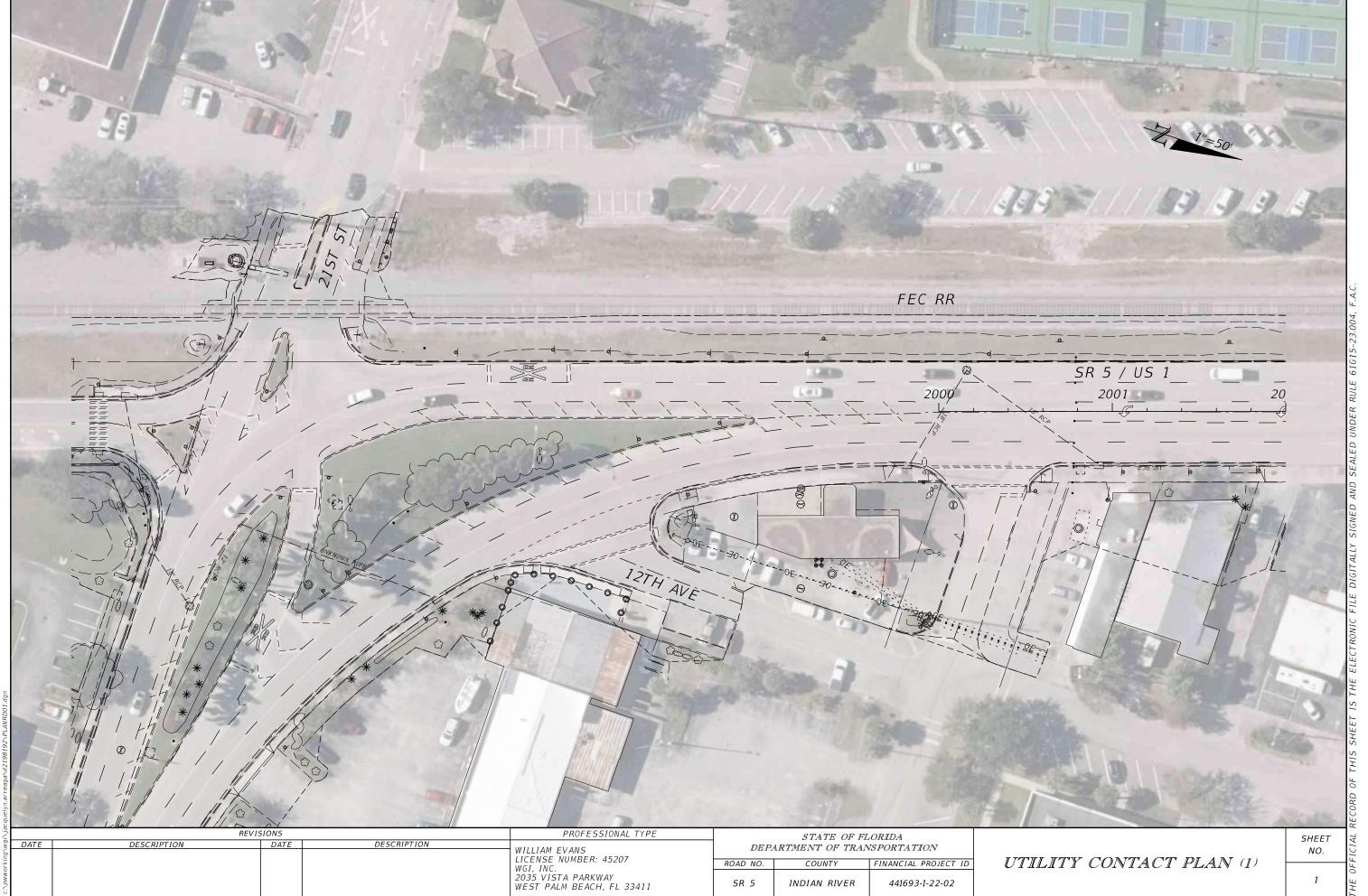
Matthew Phillips

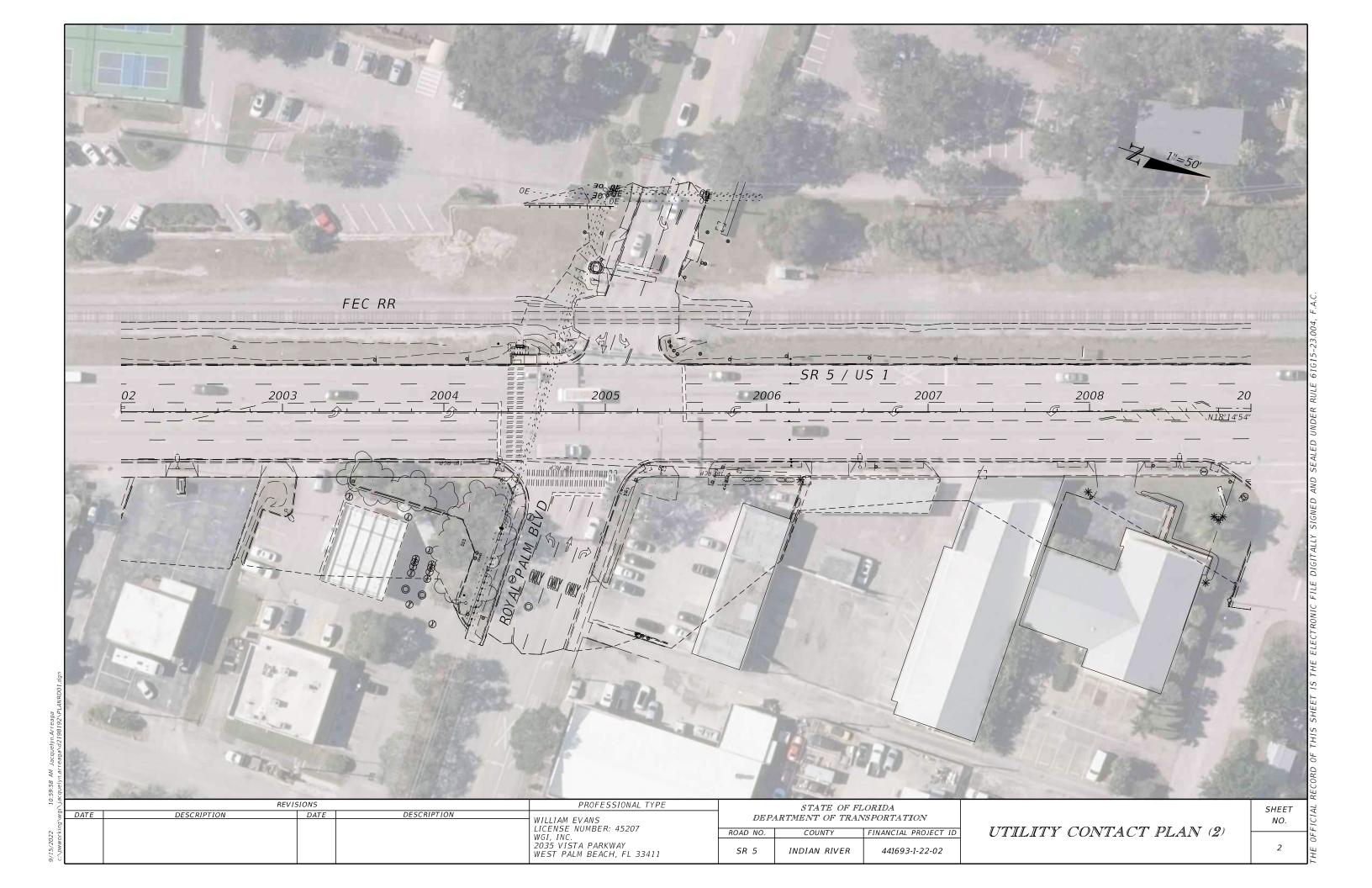
Sr. Utility Coordinator

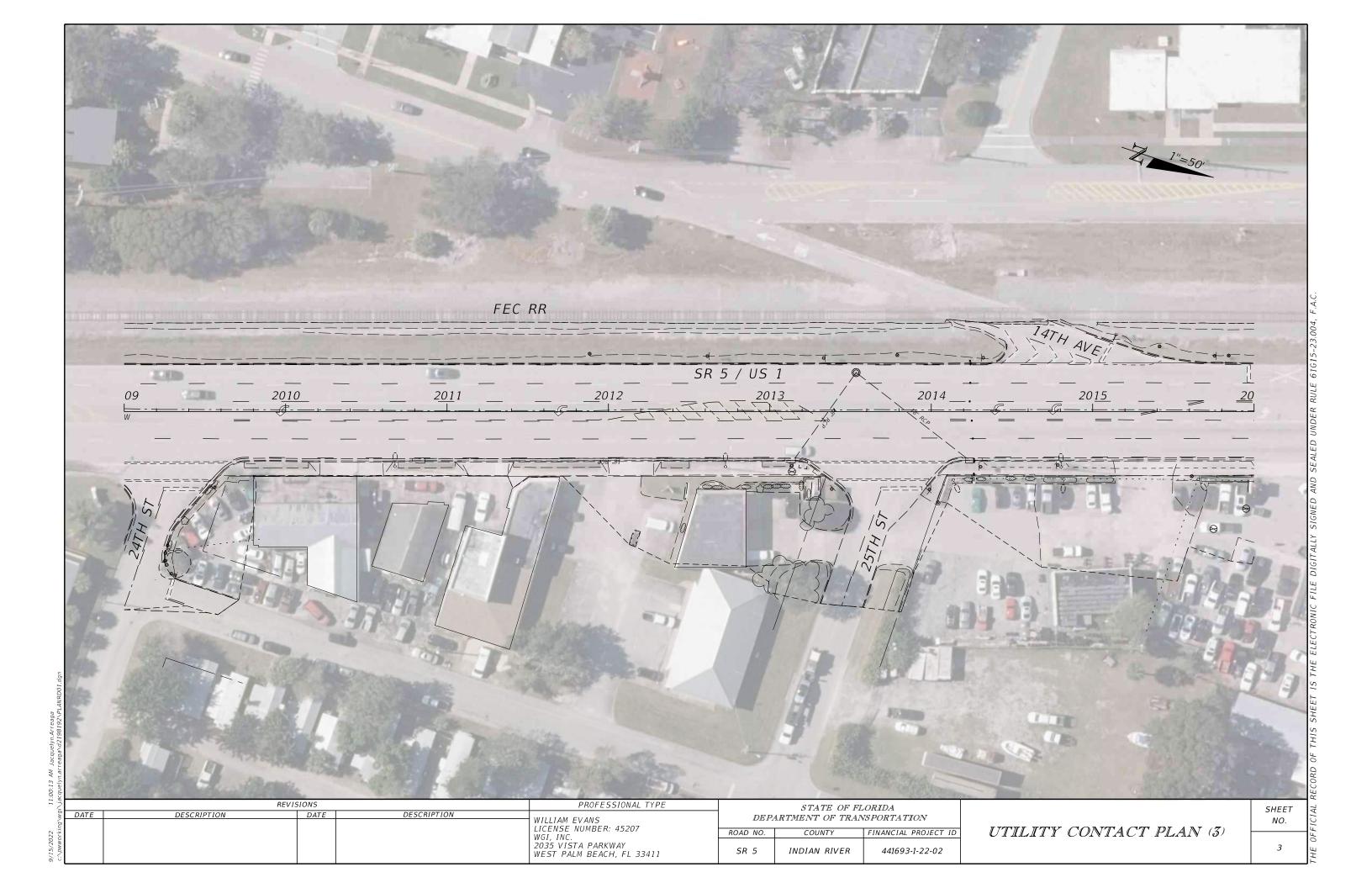
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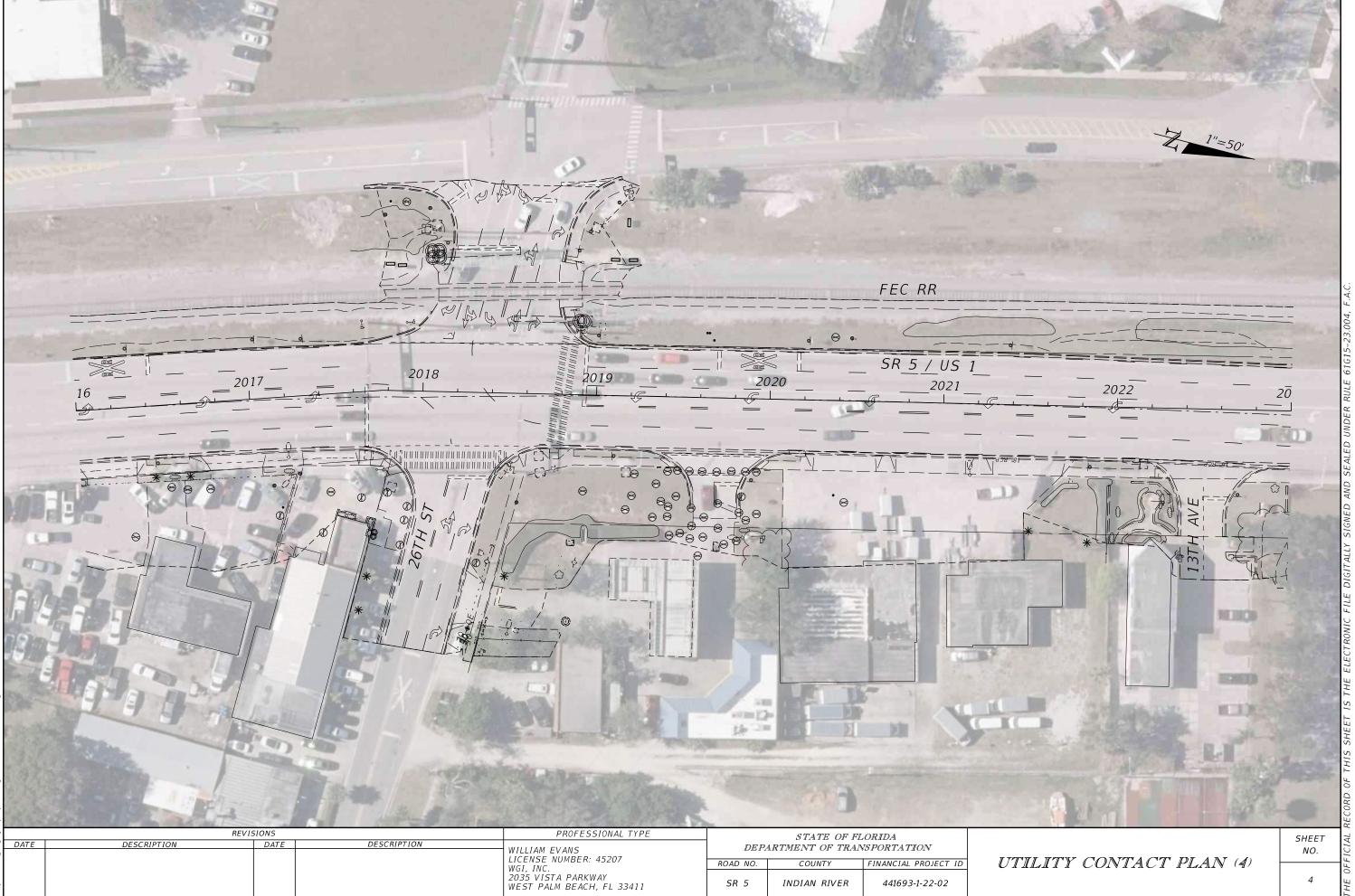
Appendix C

Utility Contact Plans





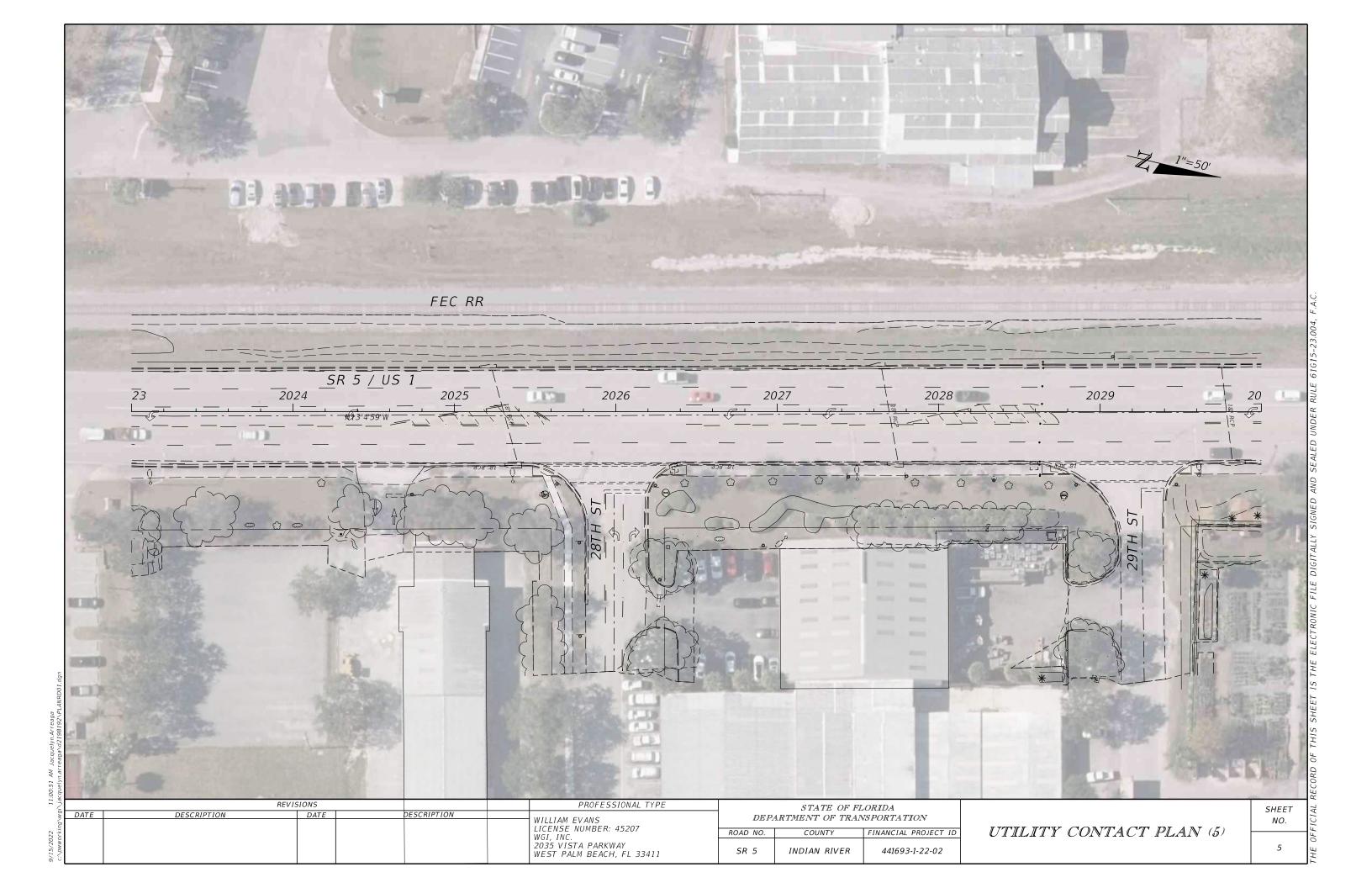


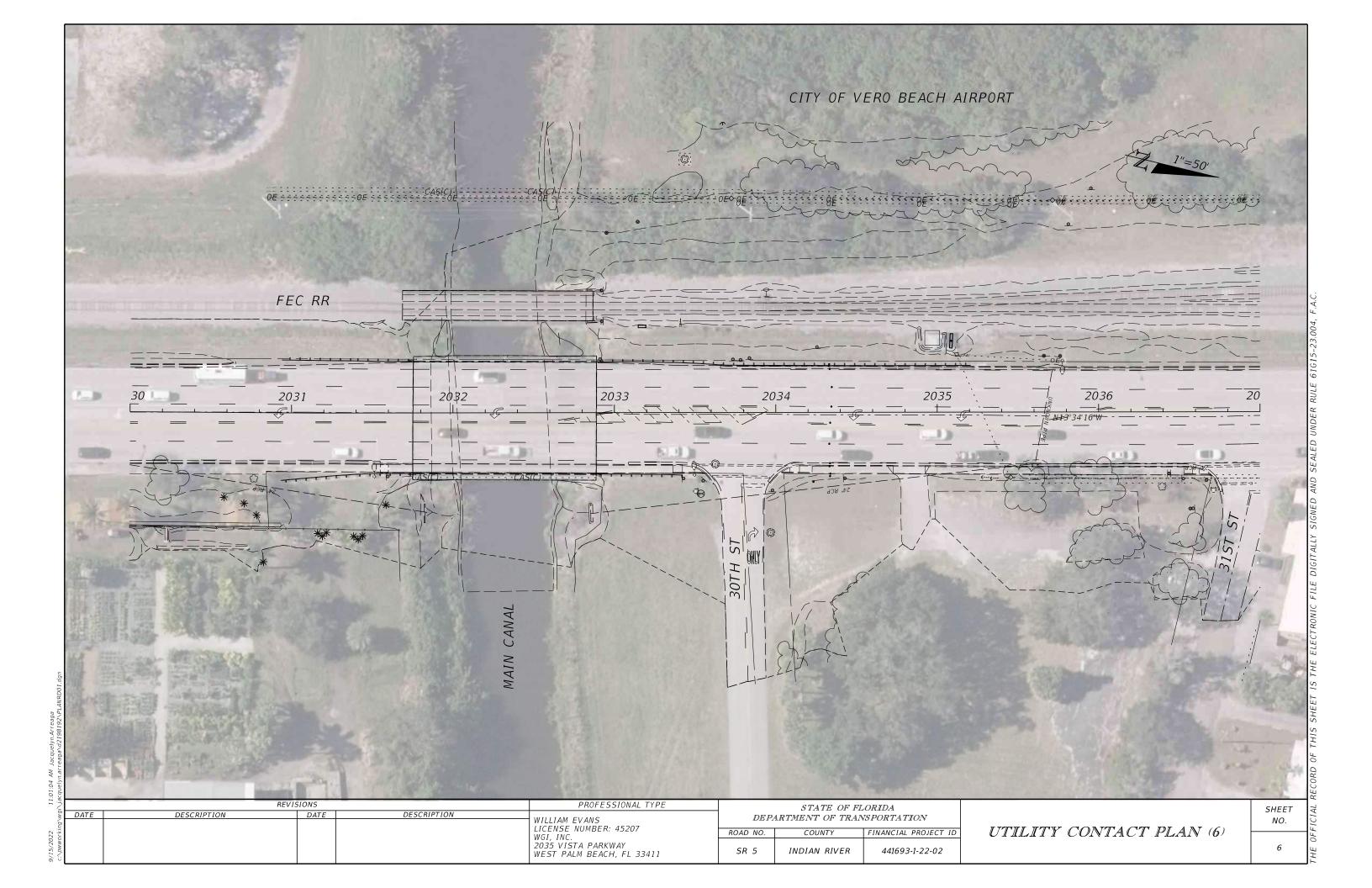


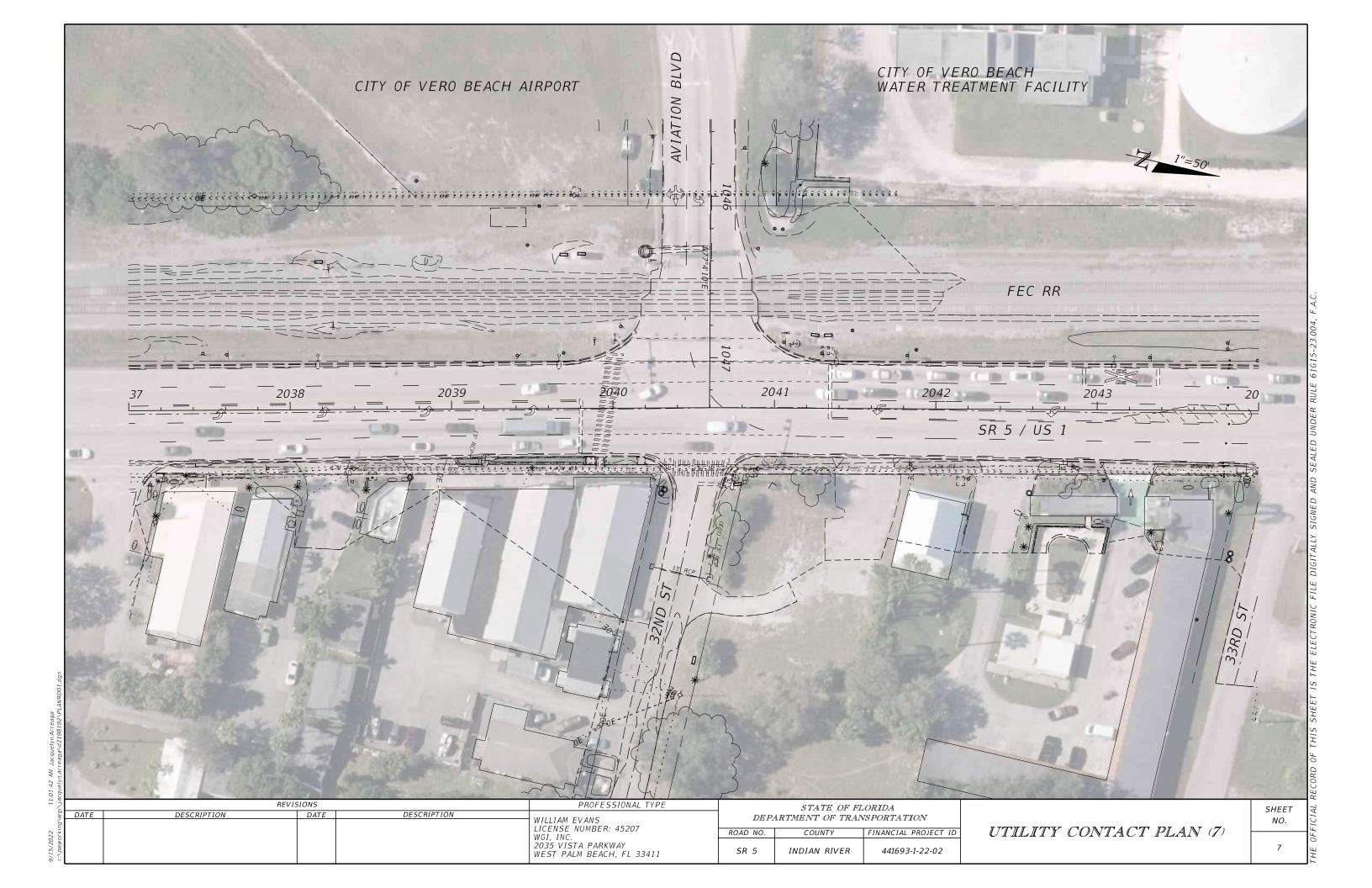
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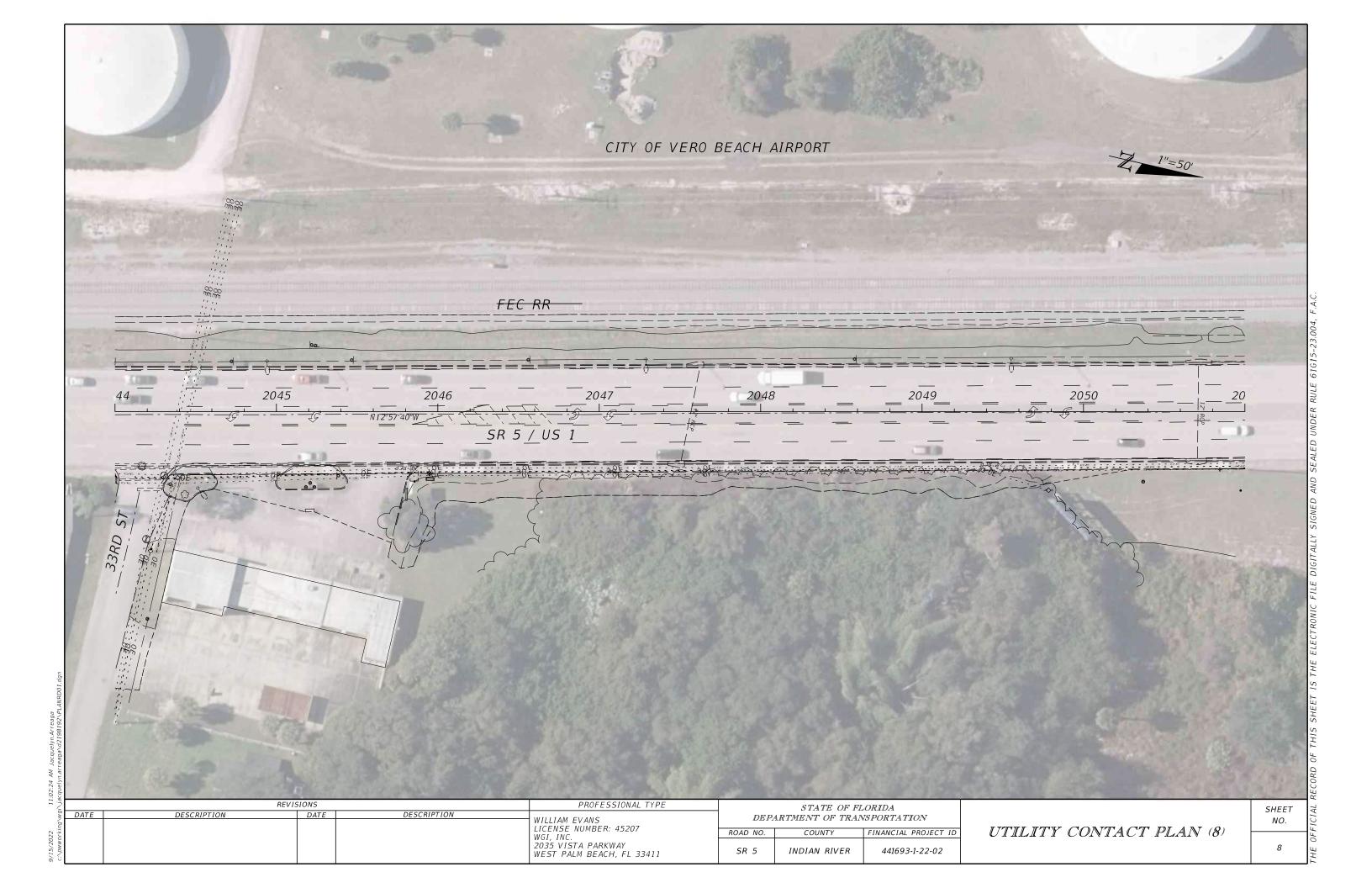
INDIAN RIVER

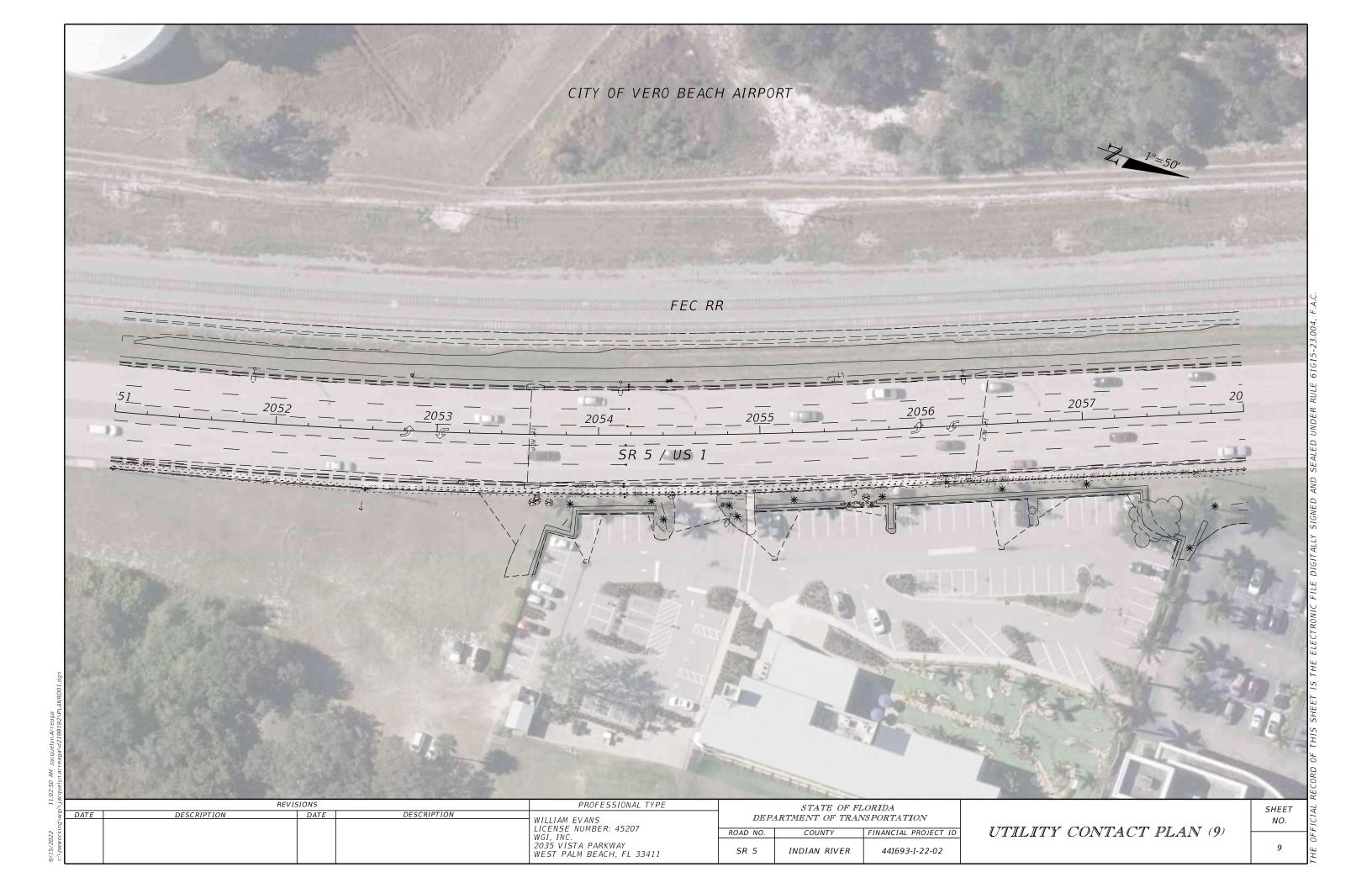
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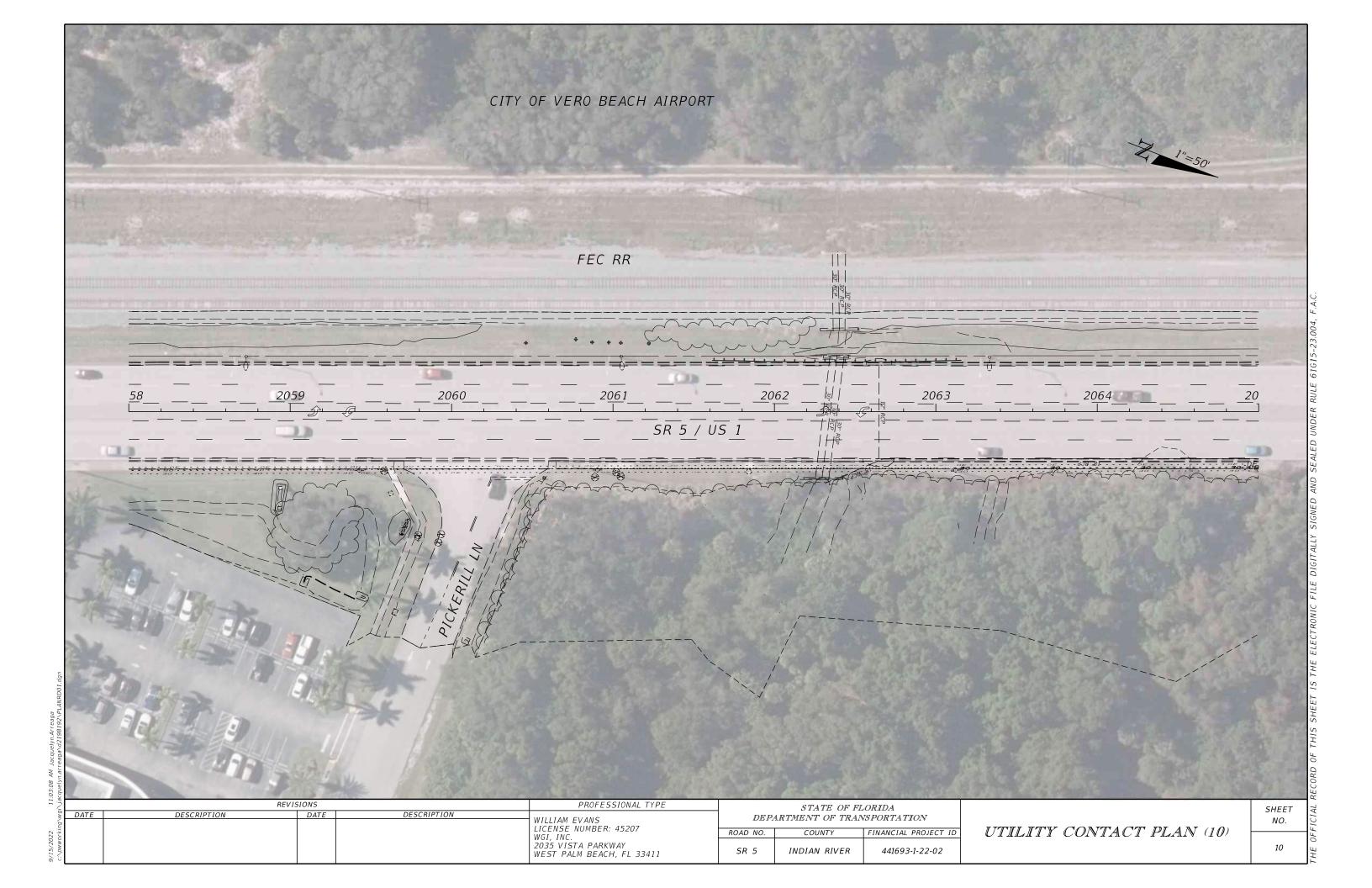


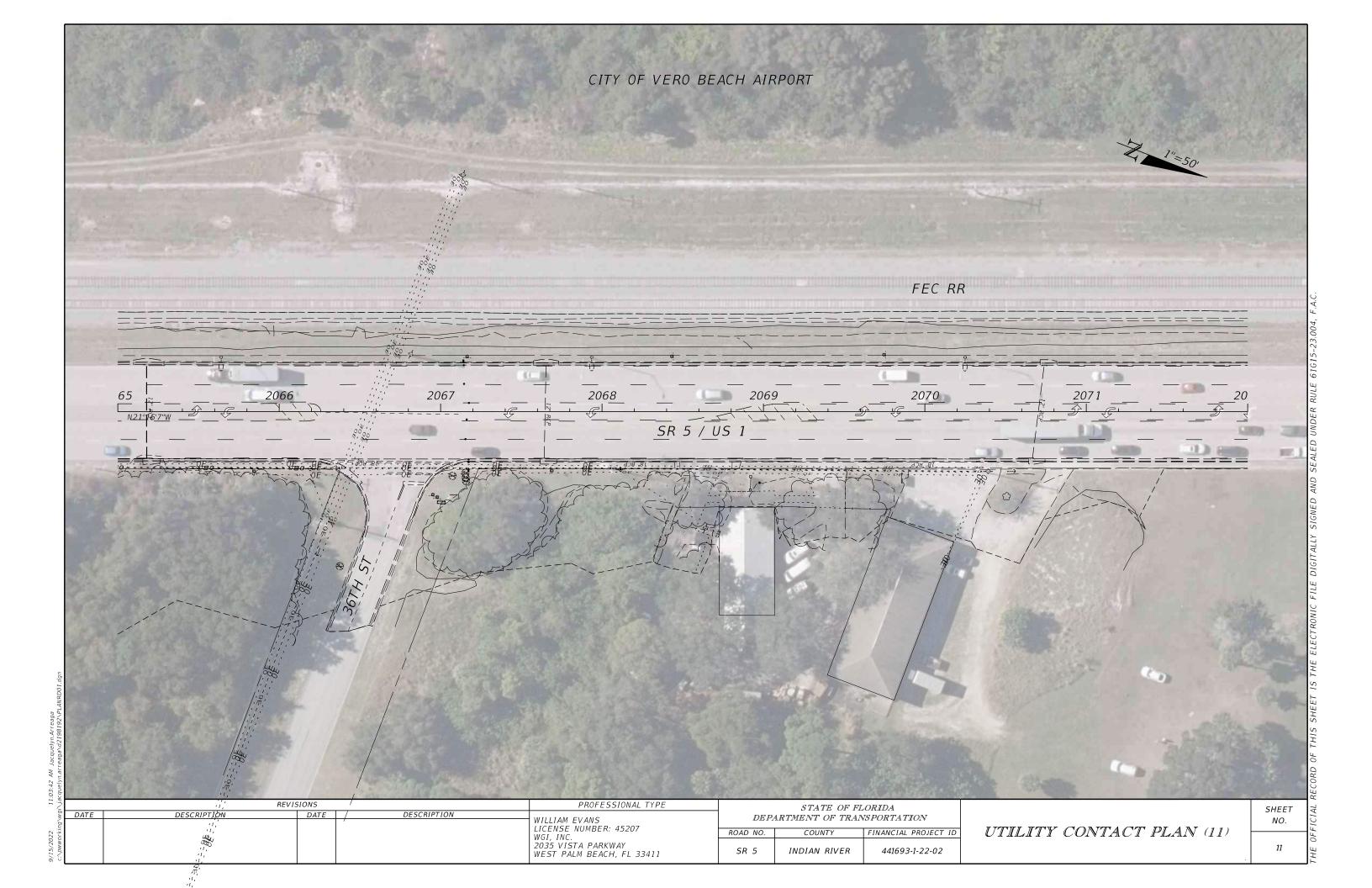


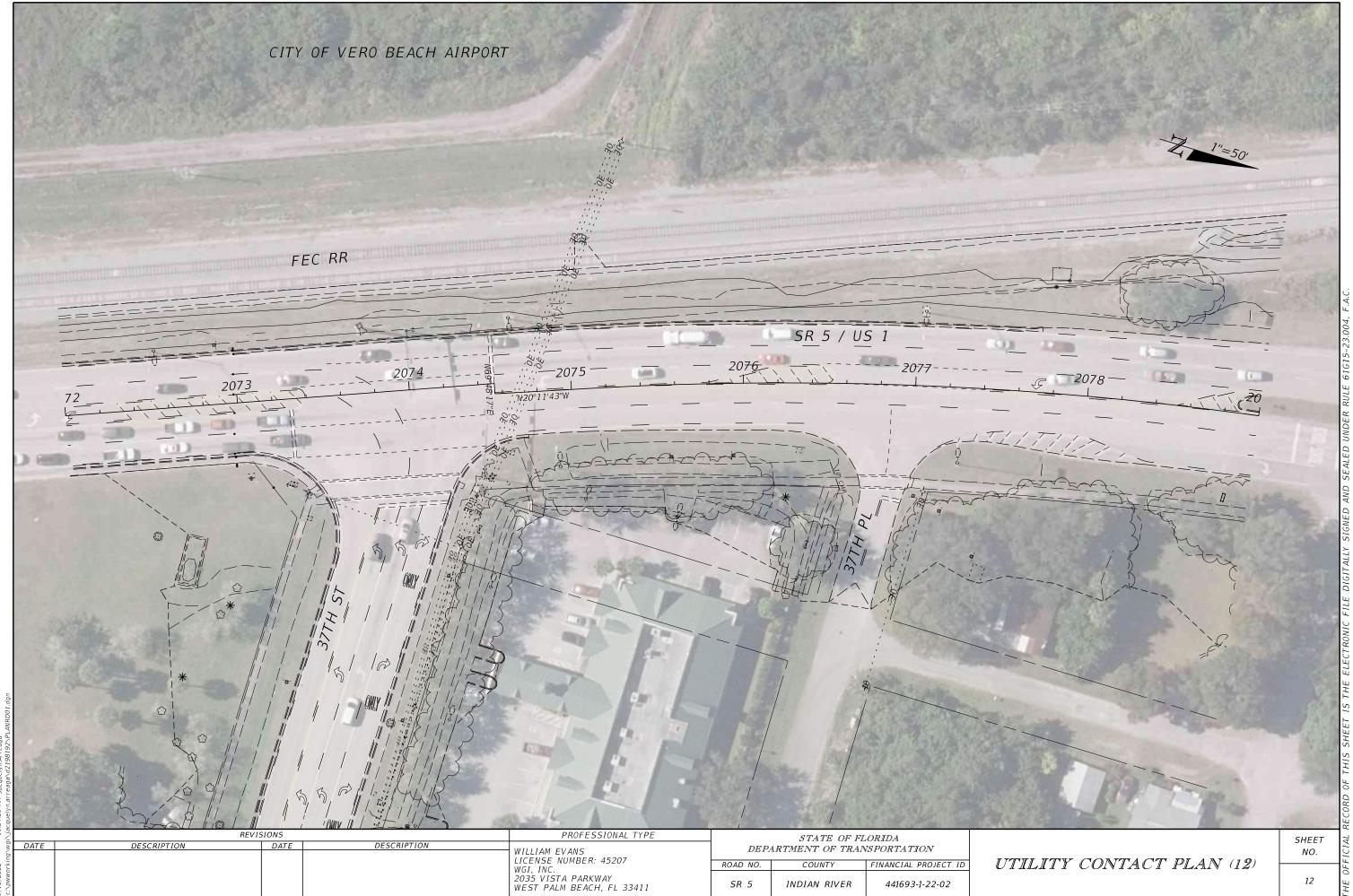




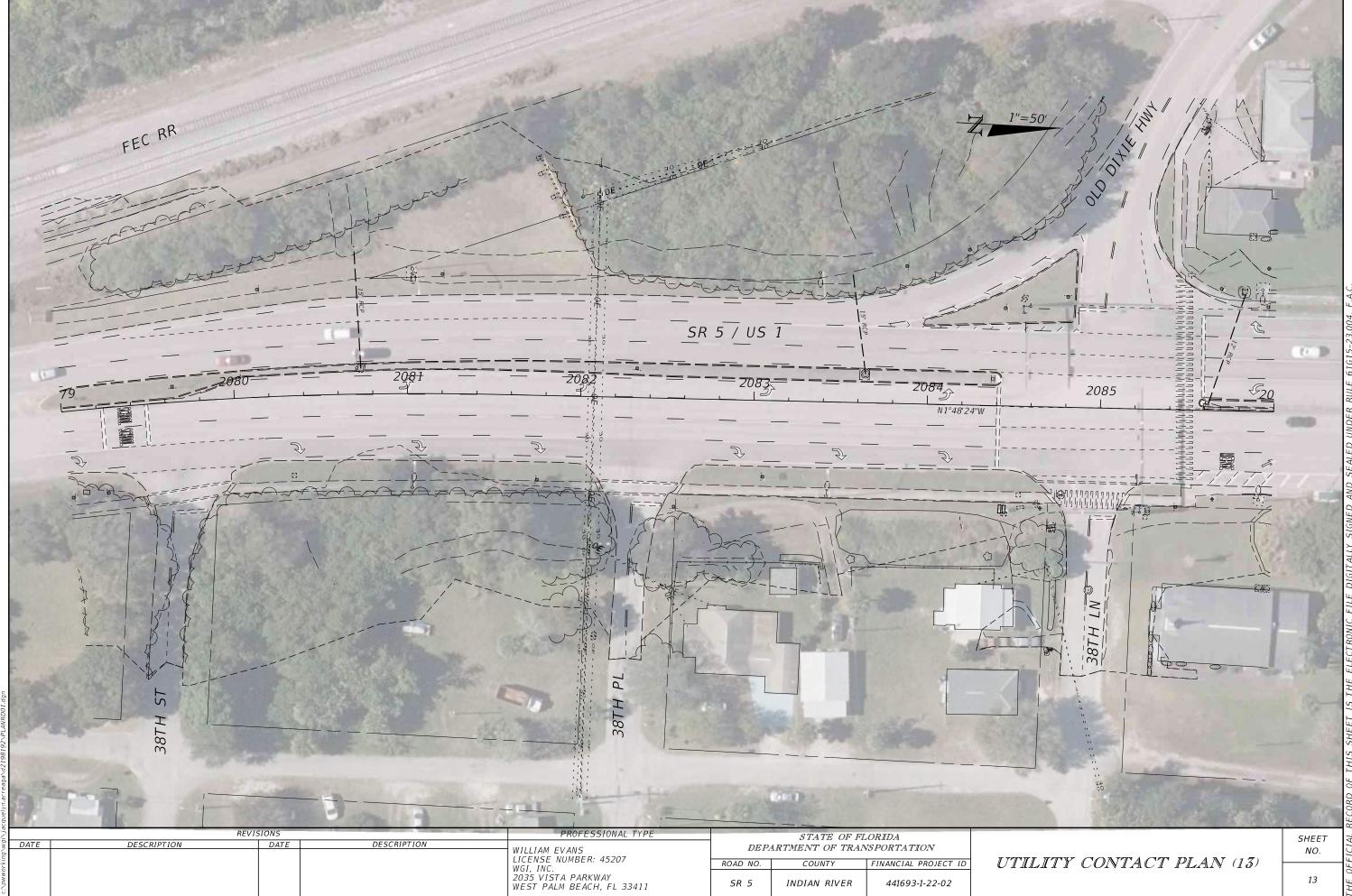


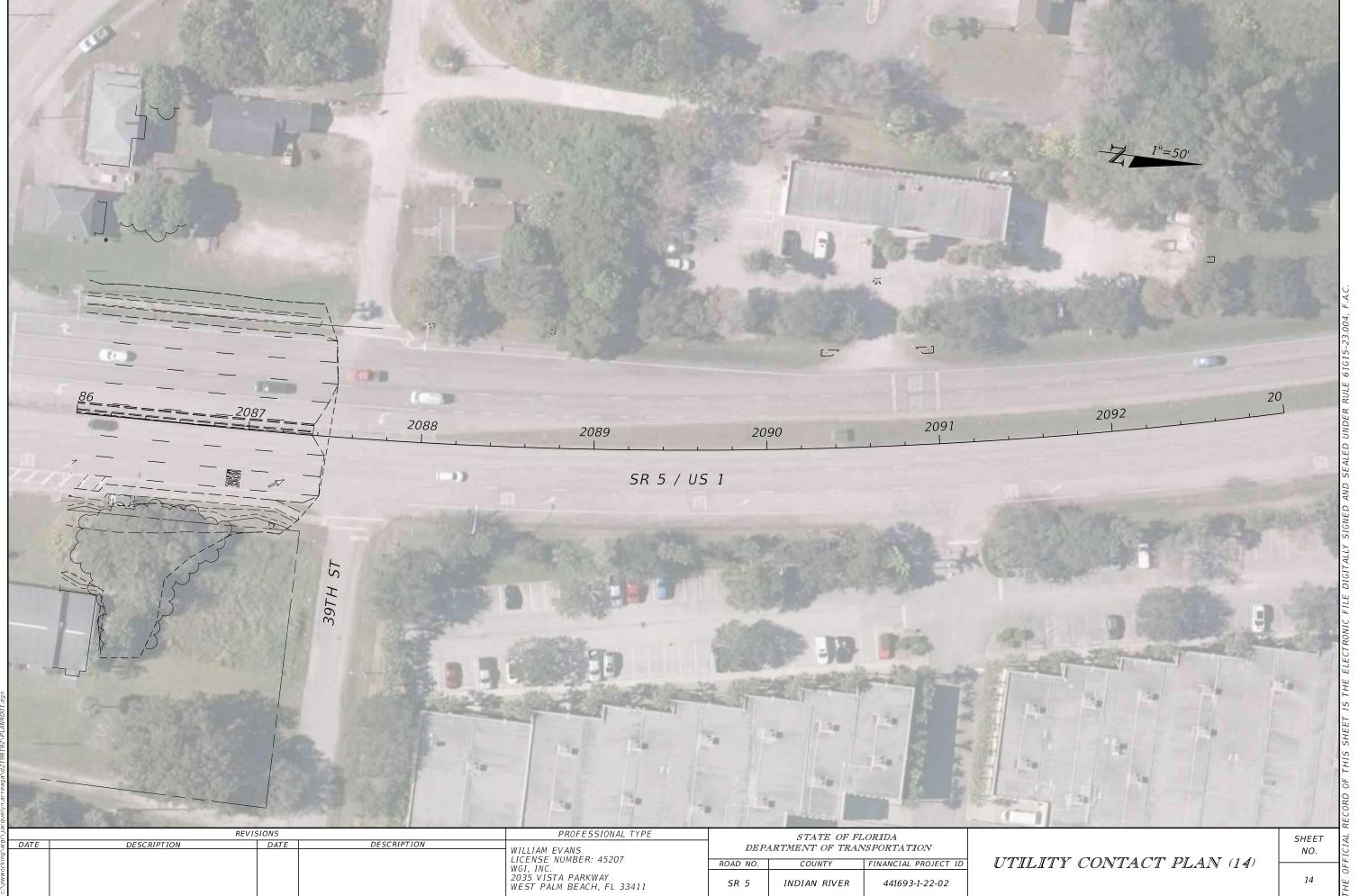






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SR 5

INDIAN RIVER

441693-1-22-02





SR 5 INDIAN RIVER 441693-1-22-02



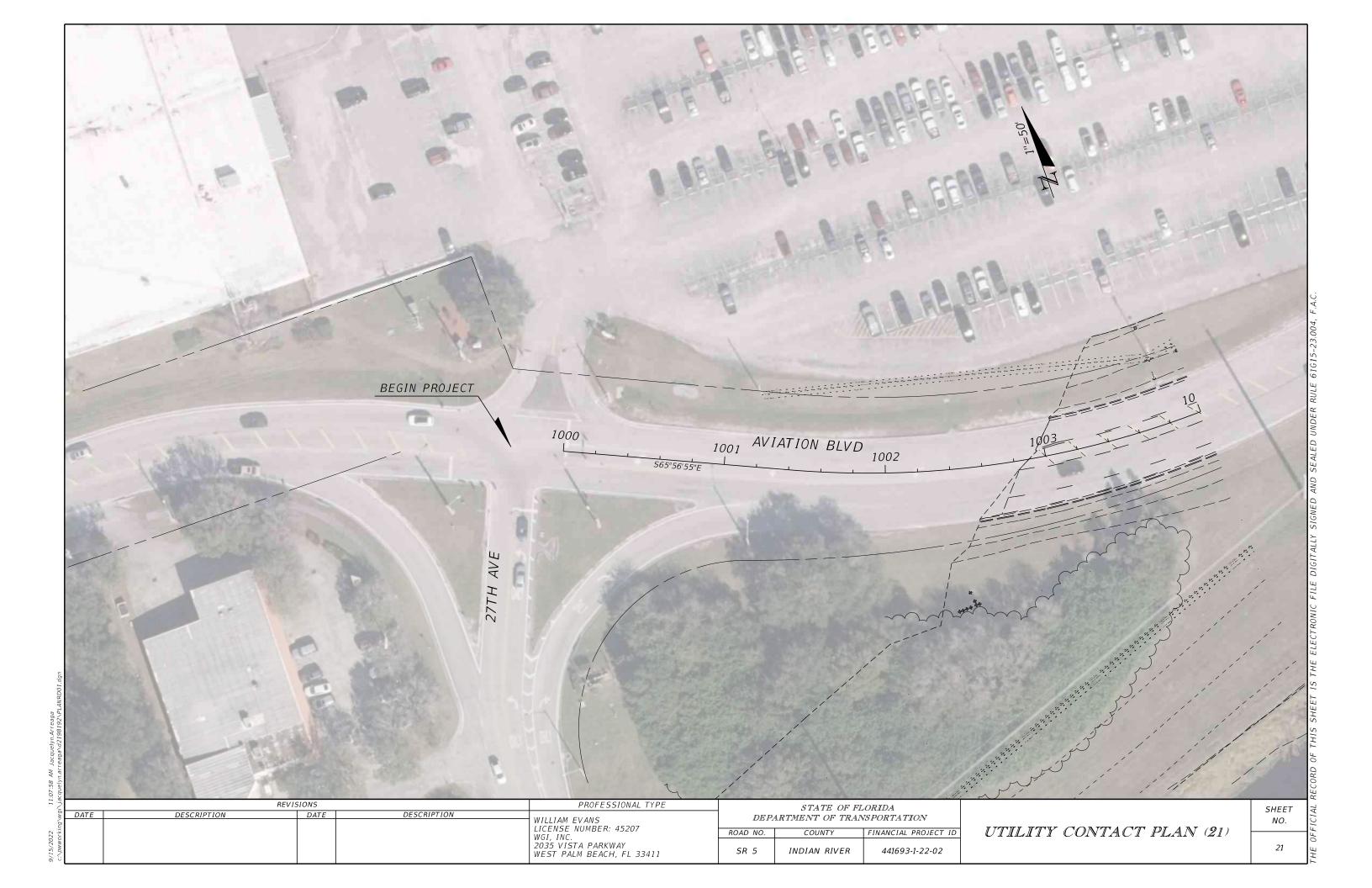
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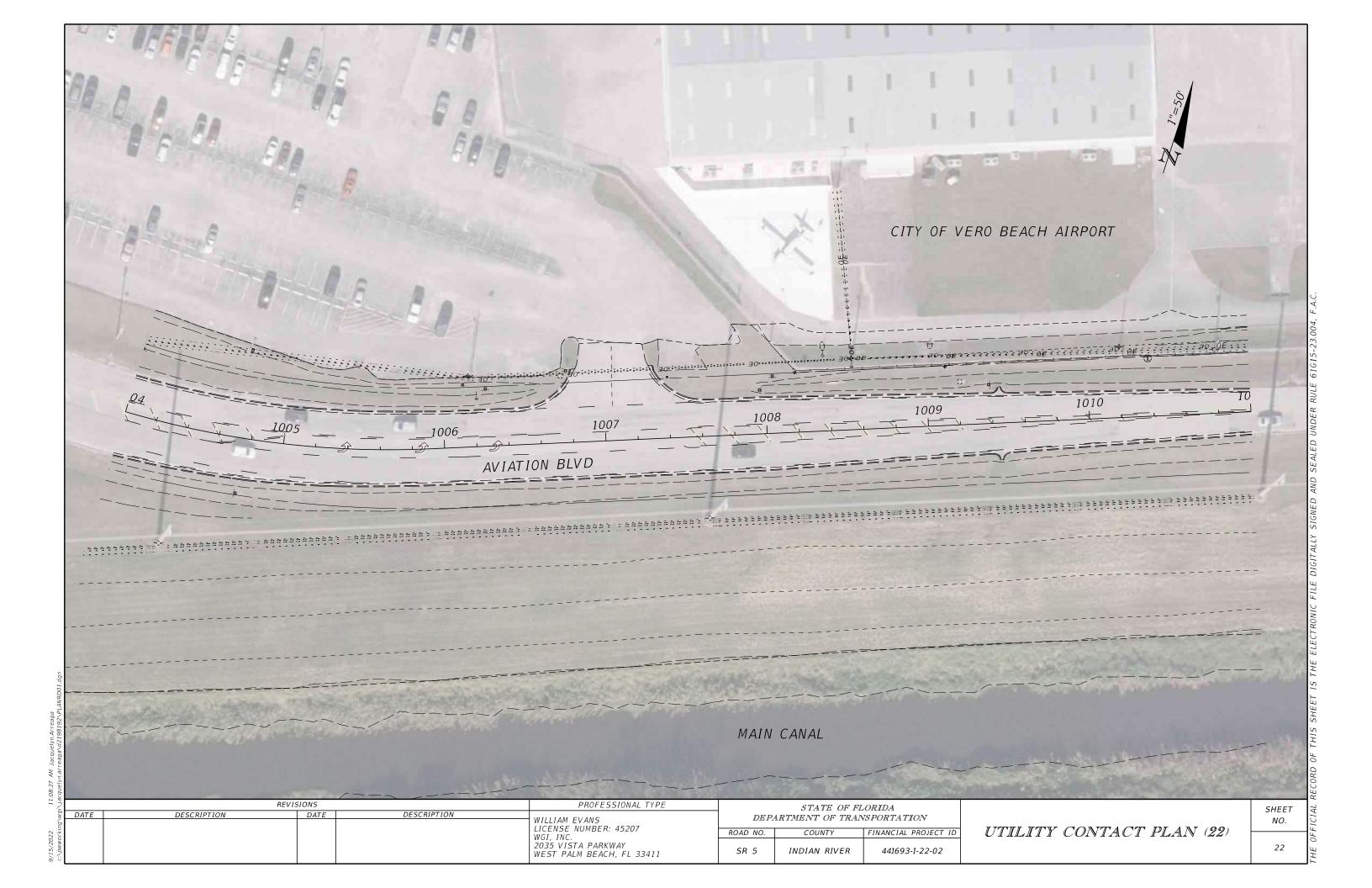
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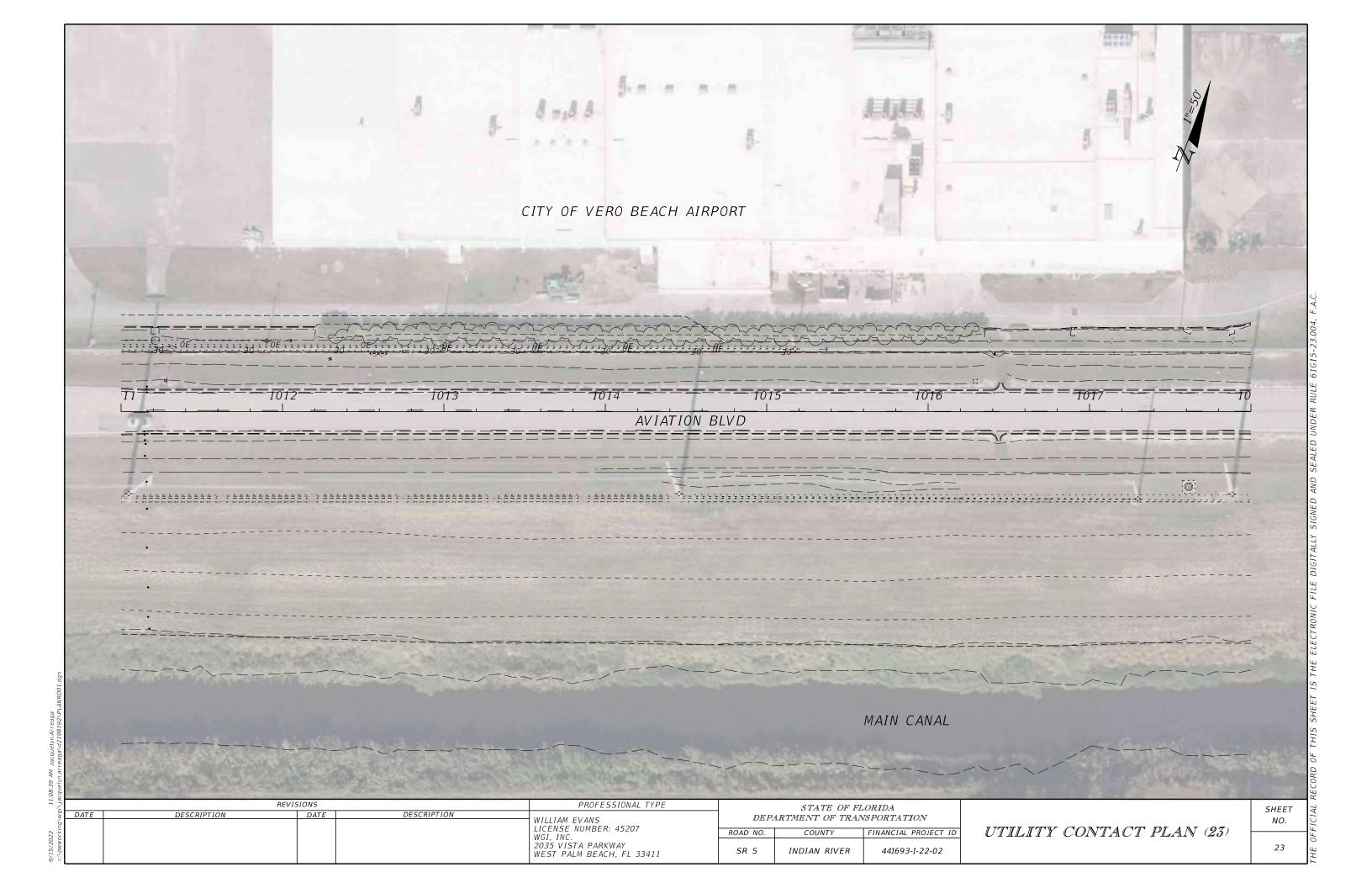


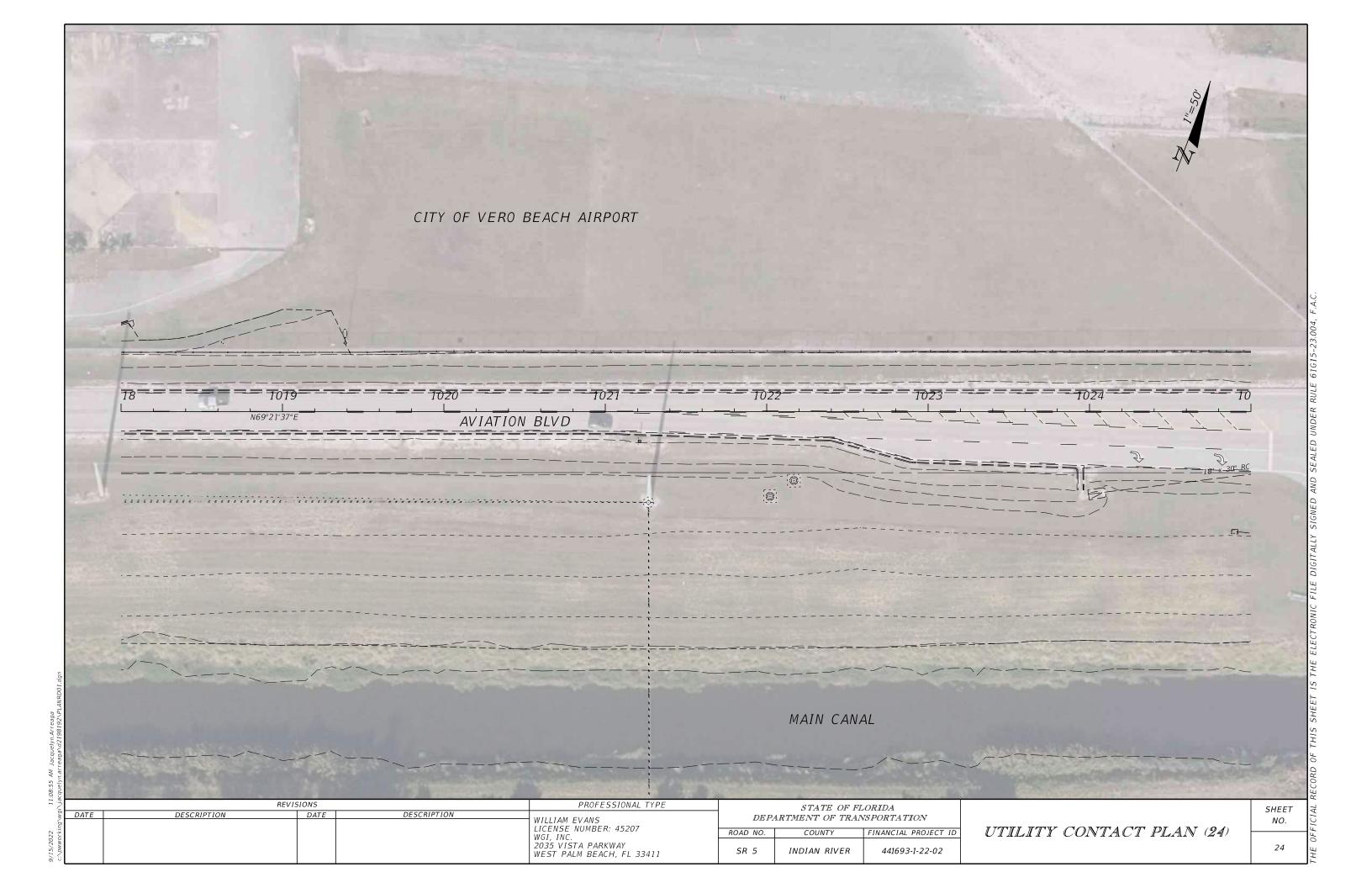


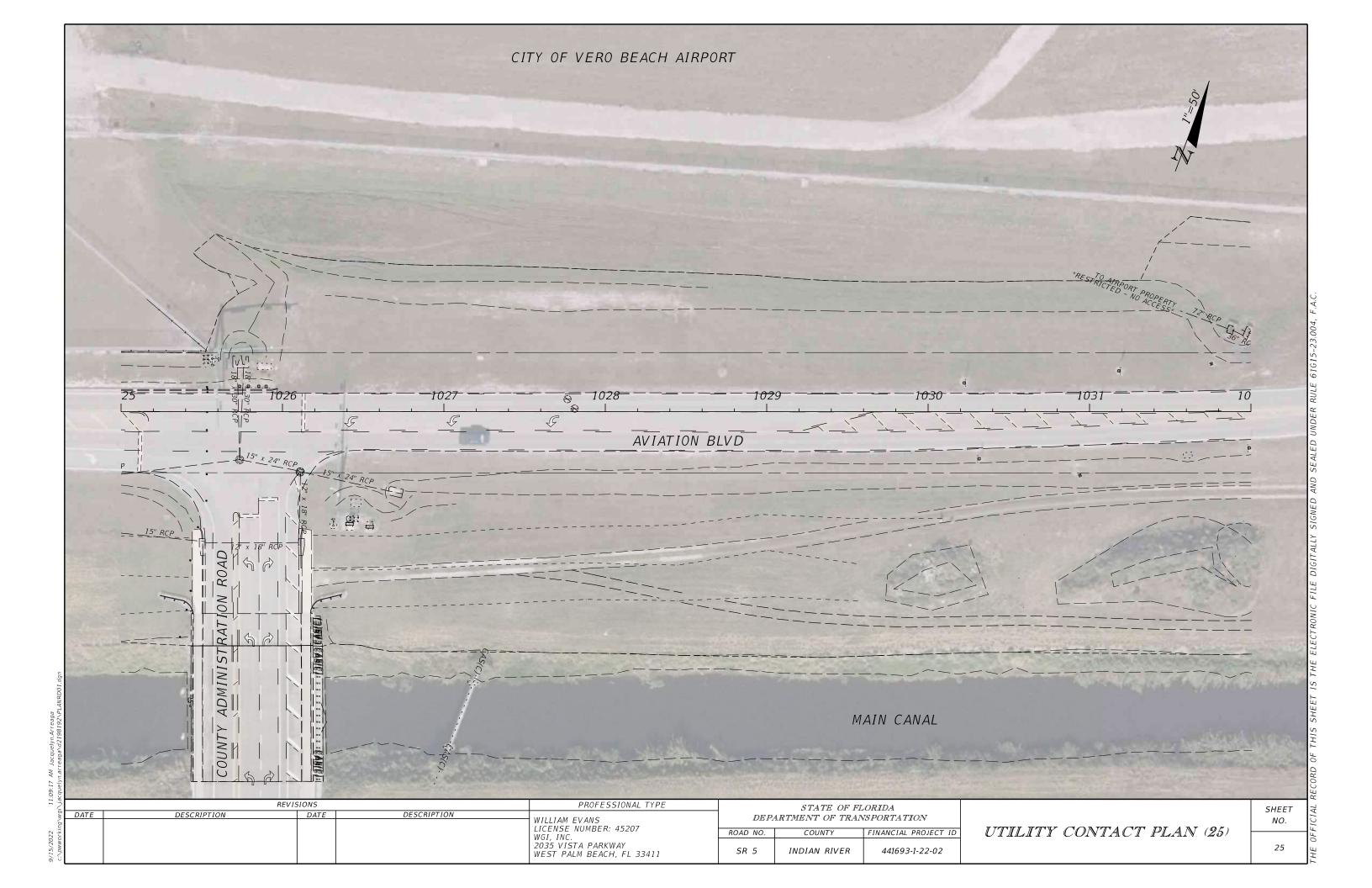


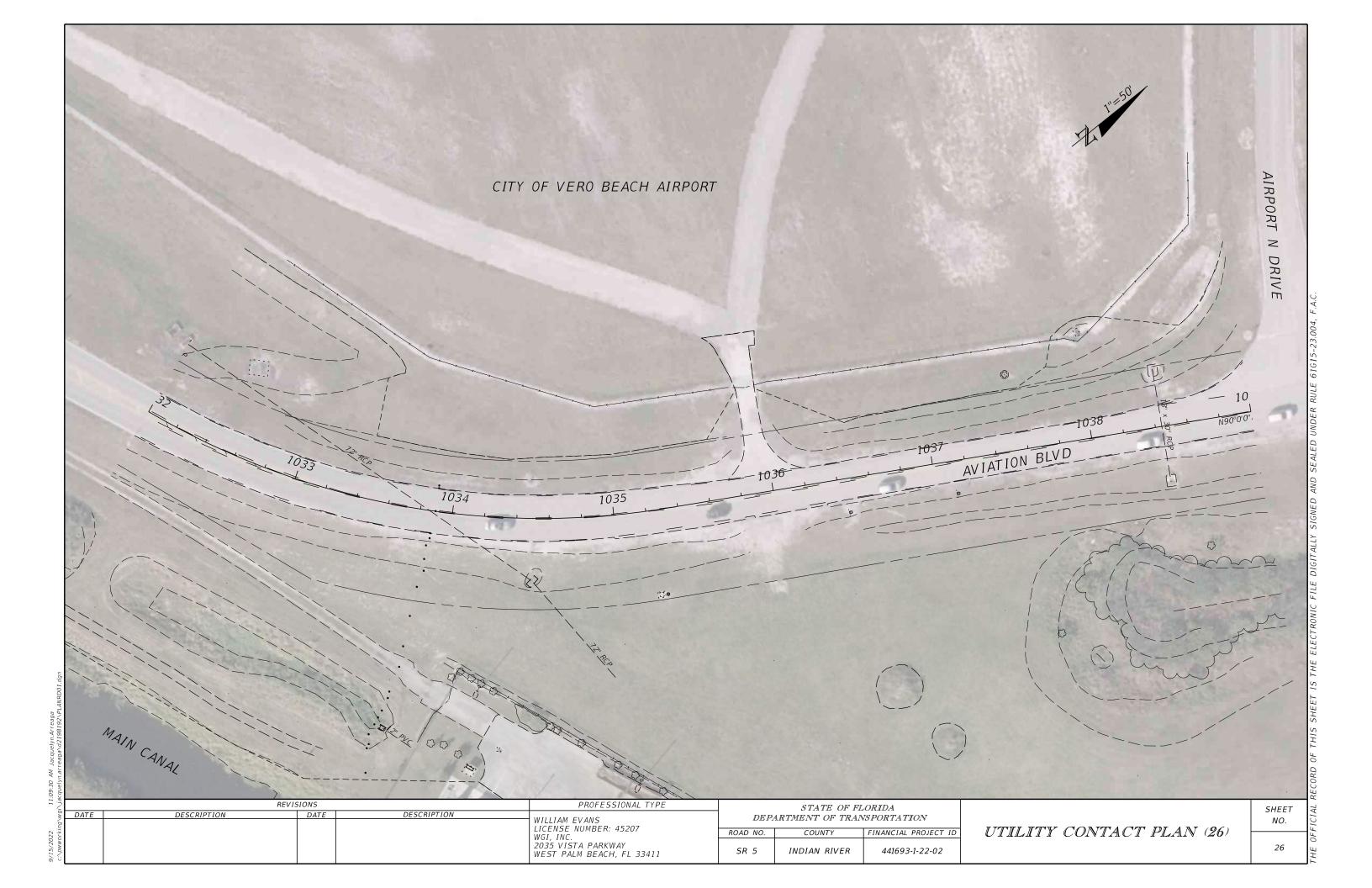


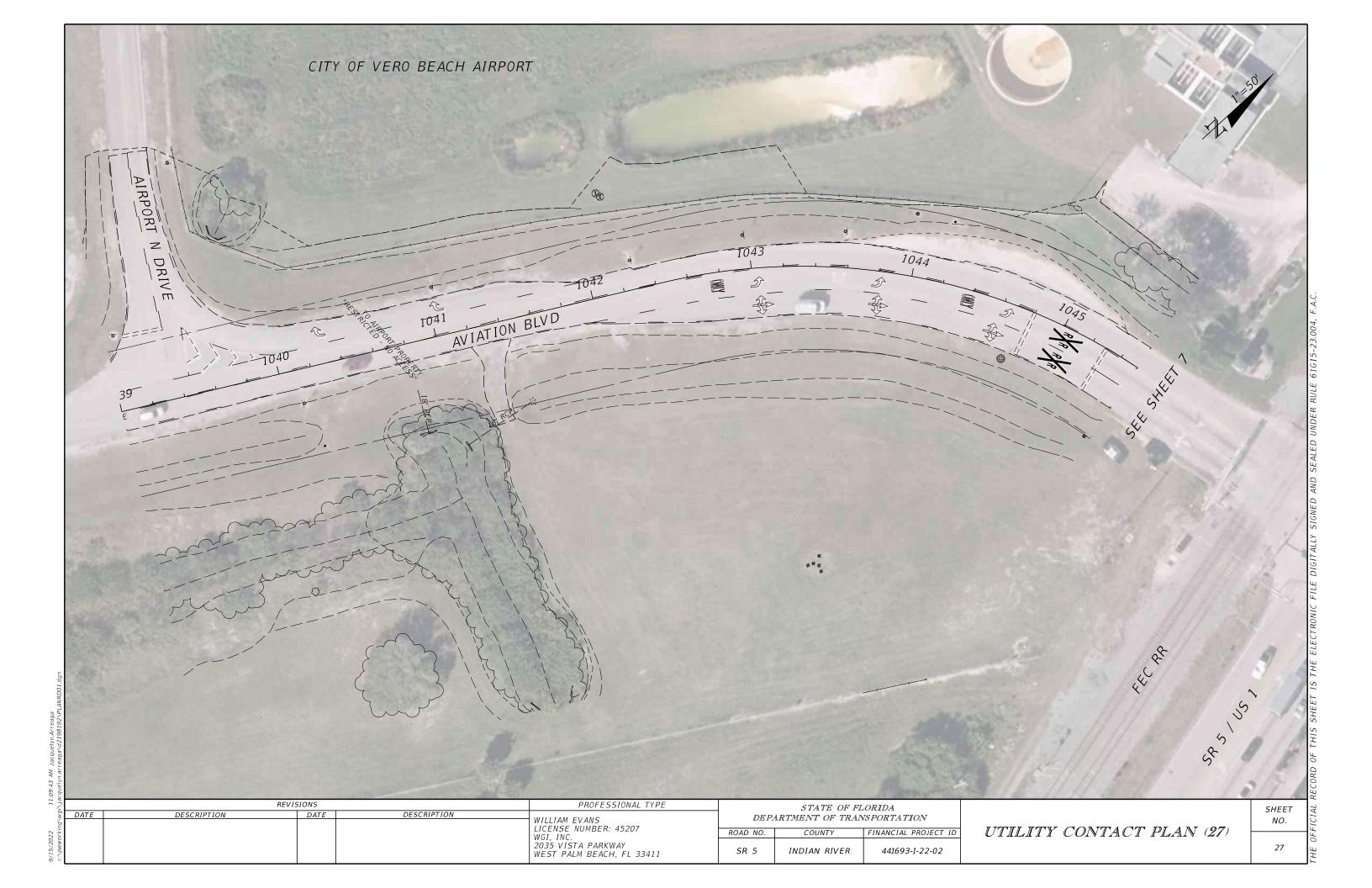












Appendix D

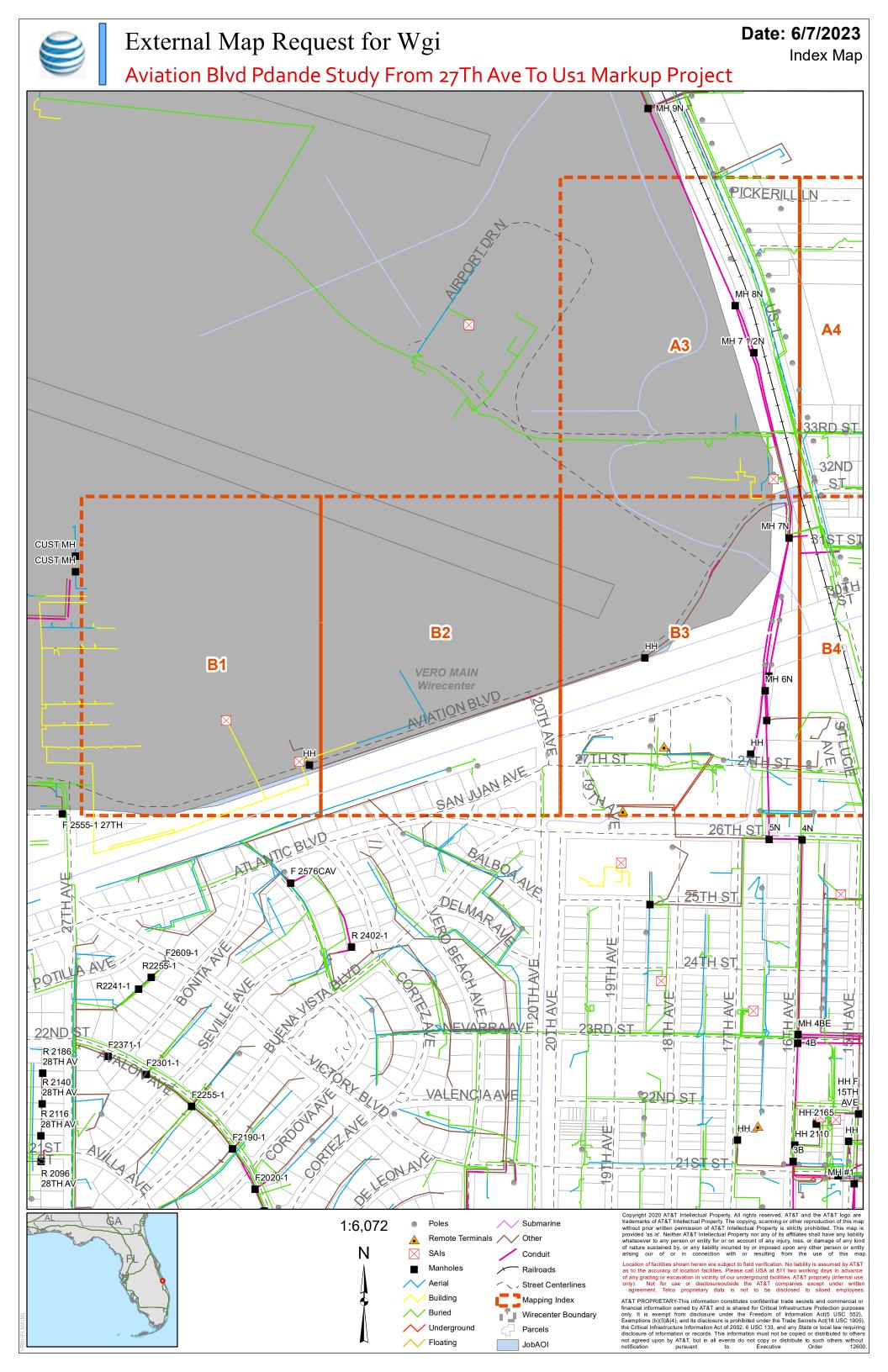
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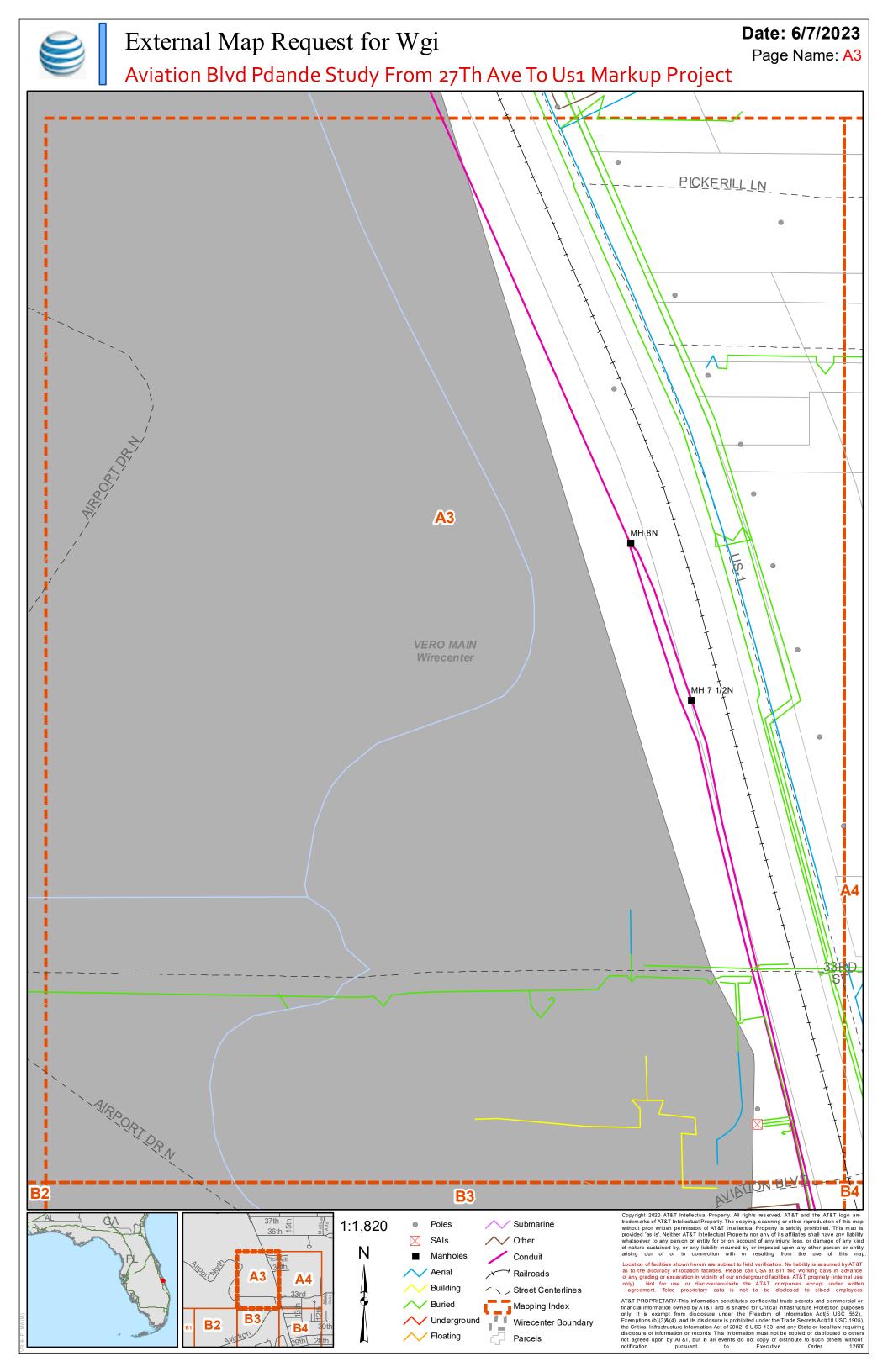
AT&T Florida
AT&T Transmission
City of Vero Beach
Comcast
Crown Castle
Florida City Gas/ NextEra
FP&L Distribution
FP&L Transmission
Indian River County Utilities
Lumen (CenturyLink) National
Resurgence Infrastructure Group
Sprint
Verizon/ MCI

Appendices

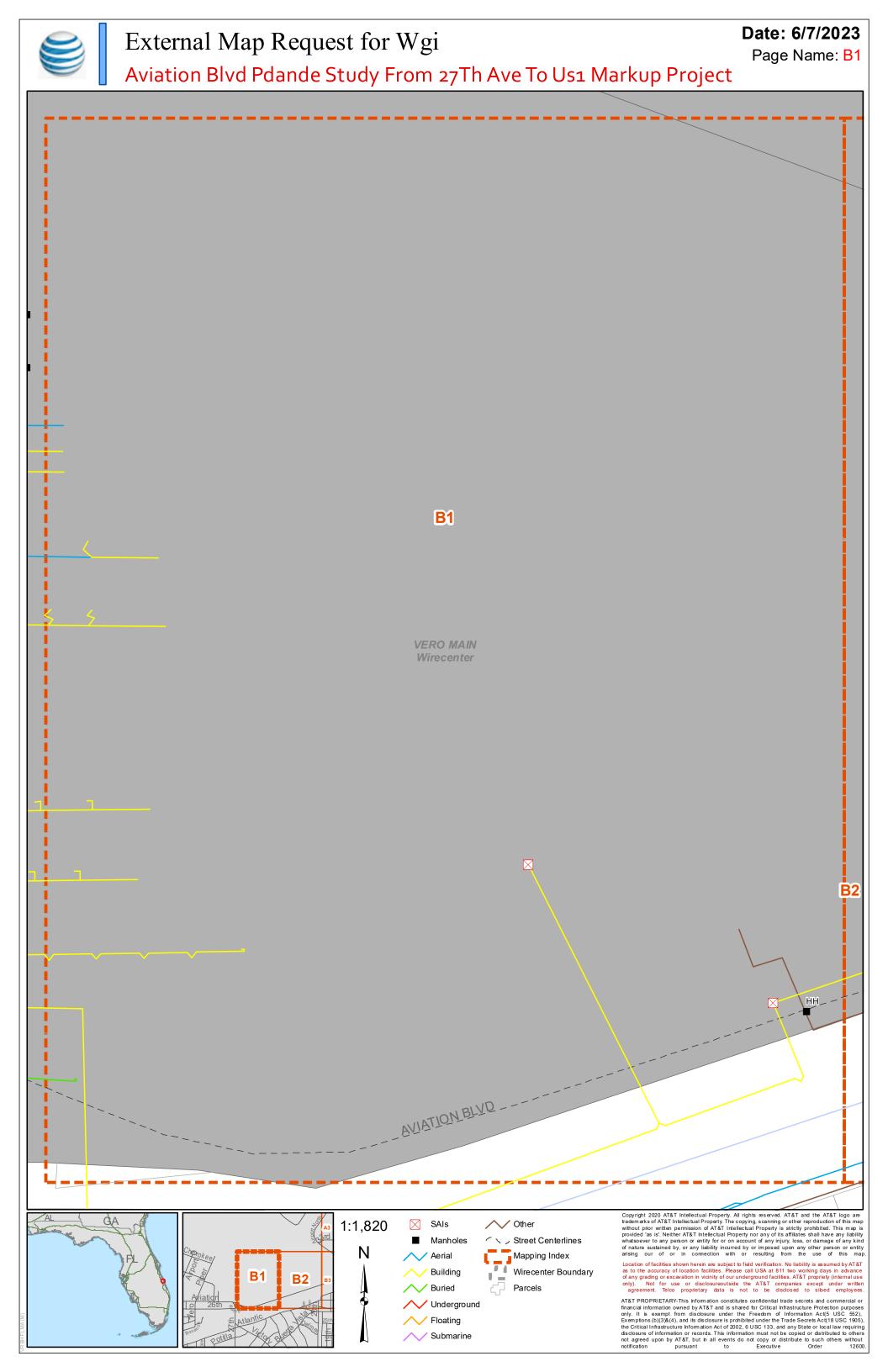
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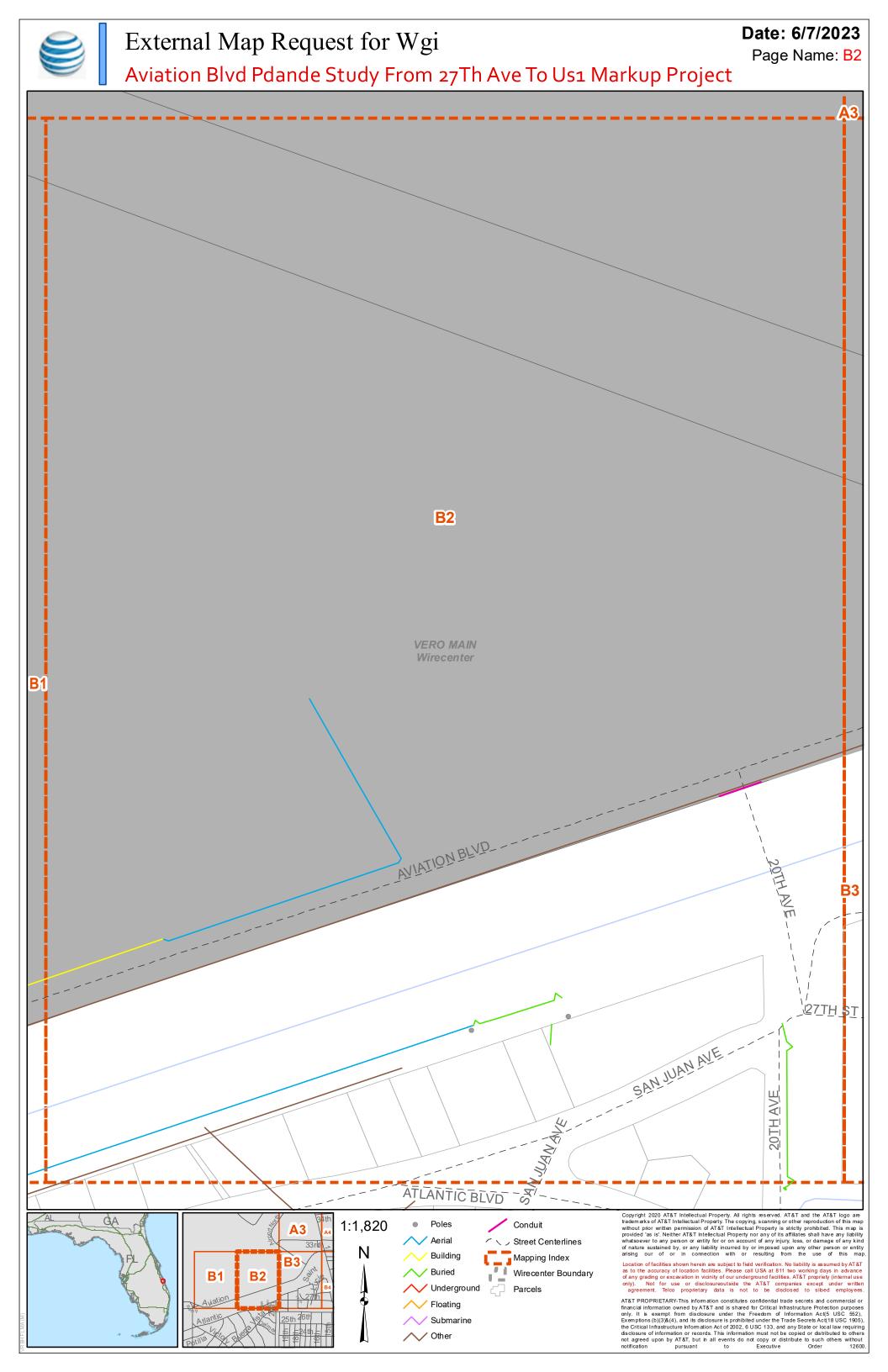
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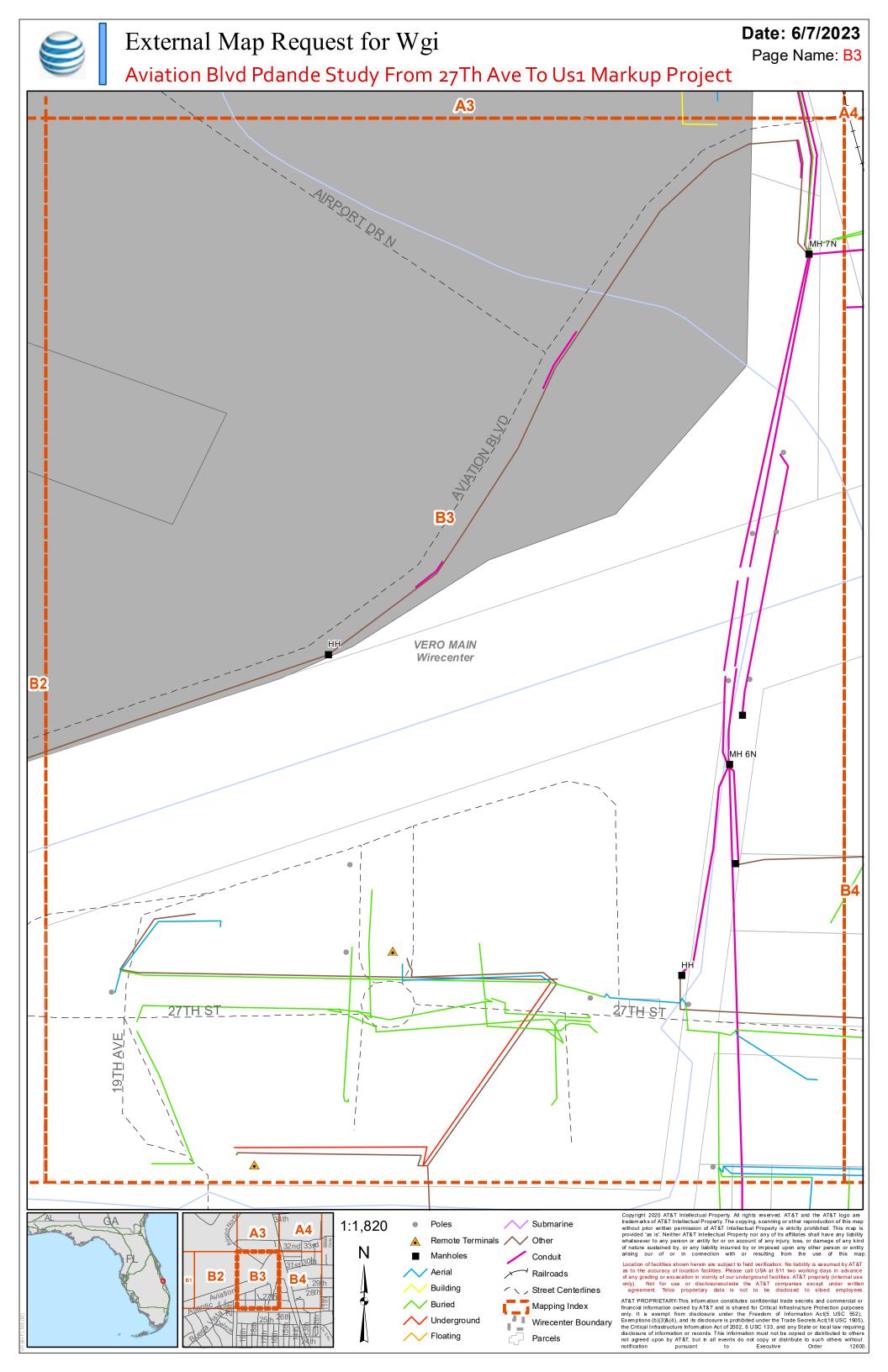


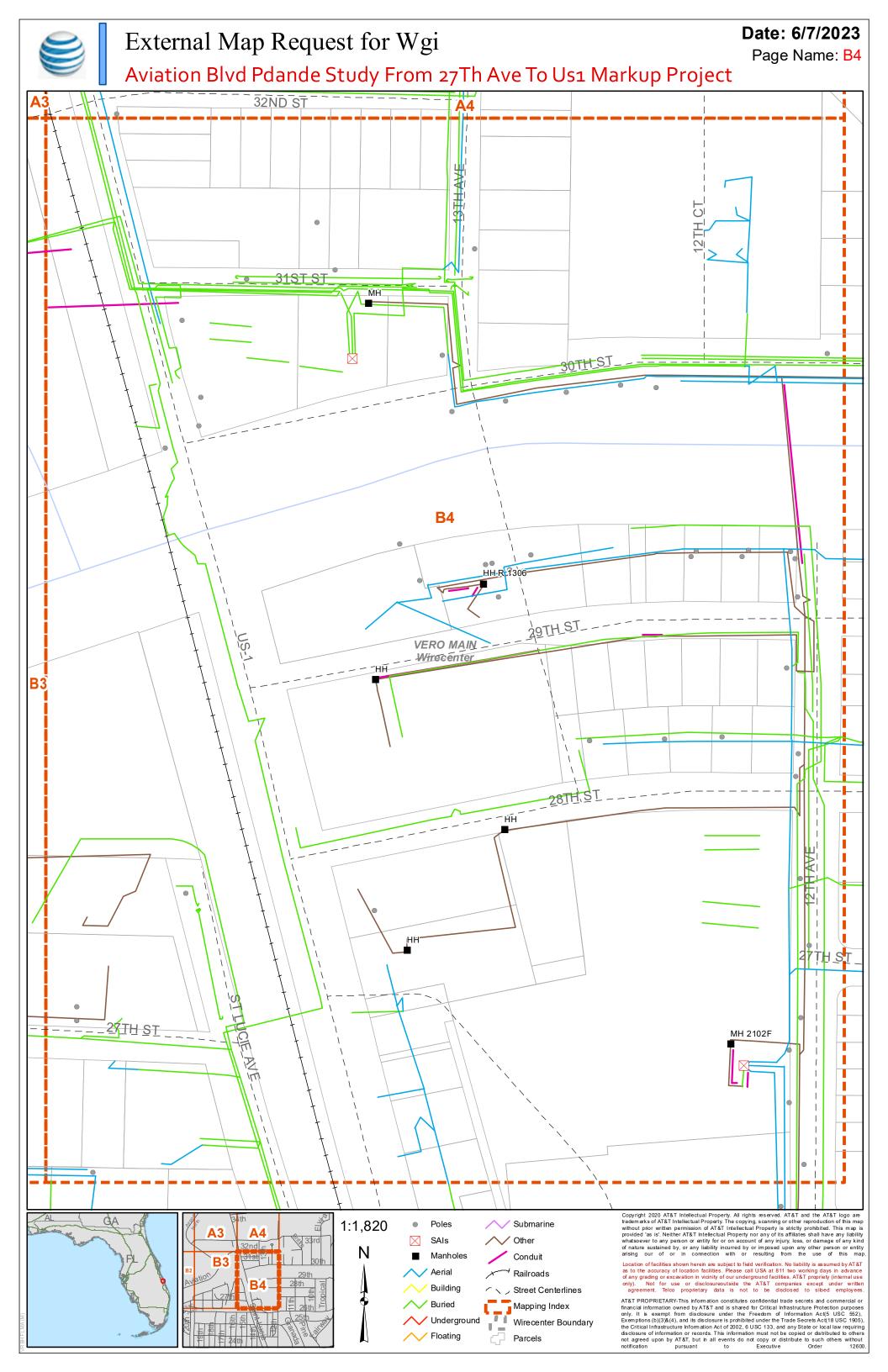


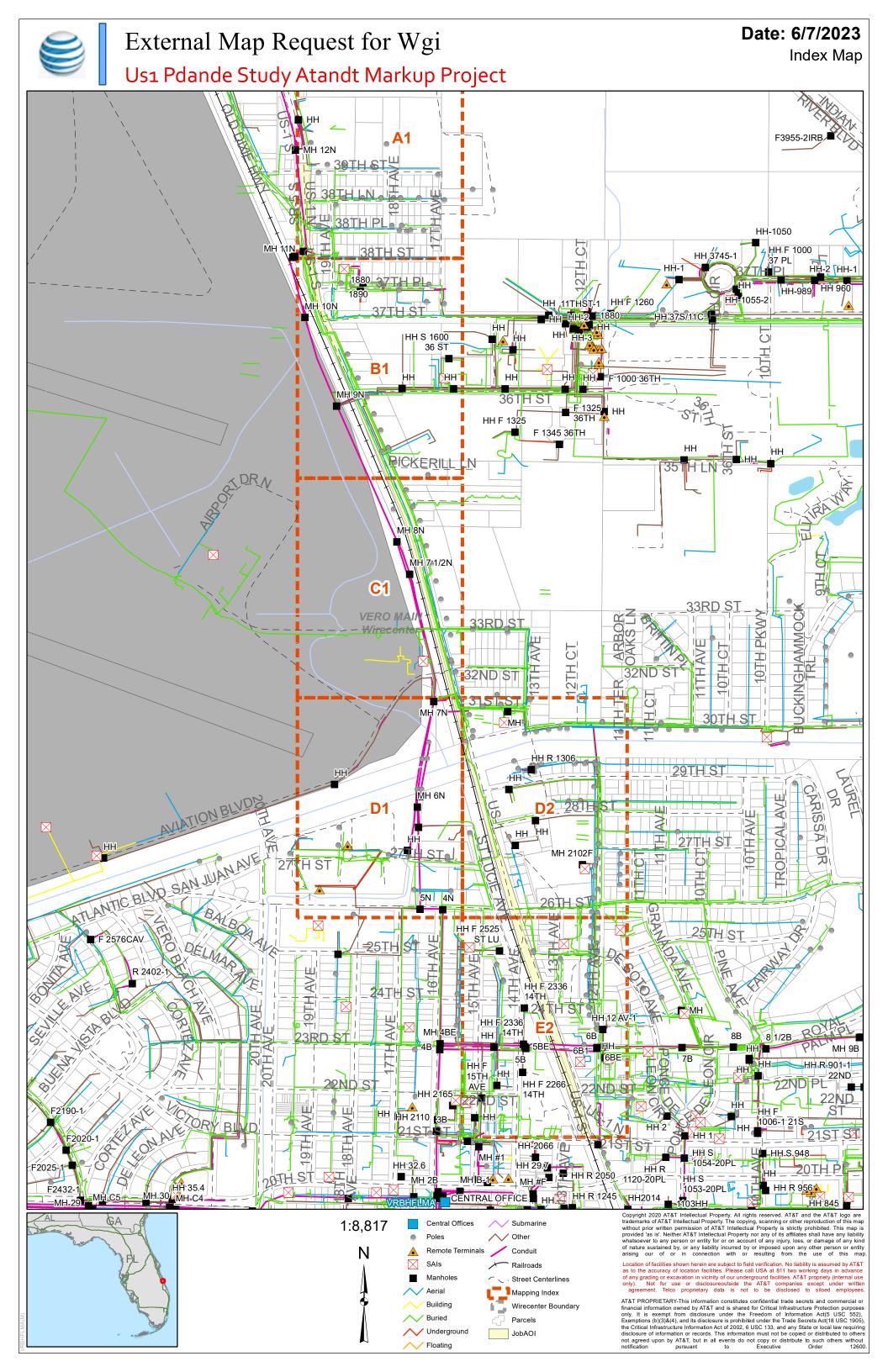
Date: 6/7/2023 External Map Request for Wgi Page Name: A4 Aviation Blvd Pdande Study From 27Th Ave To Us1 Markup Project PICKERILL LN_ _ _ _ **A4 VERO MAIN** Wirecenter 12TH Copyright 2020 AT&T Intellectual Property. All rights reserved. AT&T and the AT&T logo are trademarks of AT&T Intellectual Property. The copying, scanning or other reproduction of this map without prior written permission of AT&T Intellectual Property is strictly prohibited. This map is provided 'as is'. Neither AT&T Intellectual Property nor any of its affiliates shall have any liability whatsoever to any person or entity for or on account of any injury, loss, or damage of any kind of nature sustained by, or any liability incurred by or imposed upon any other person or entity arising our of or in connection with or resulting from the use of this map. Poles [→] Railroads 1:1,820 Street Centerlines 36th Ν Mapping Index
Wirecenter Boundary /// Building Location of facilities shown herein are subject to field verification. No liability is assumed by ATAT as to the accuracy of location facilities. Please call USA at 811 two working days in advance of any grading or excavation in vicinity of our underground facilities. AT&T propriety (internal use only). Not for use or disclosureoutside the AT&T companies except under written agreement. Telco proprietary data is not to be disclosed to sibed employees. /// Buried Underground Parcels AT&T PROPRIETARY-This information constitutes confidential trade secrets and commercial or financial information owned by AT&T and is shared for Critical Infrastructure Protection purposes only. It is exempt from disclosure under the Freedom of Information Act(5 USC 552), Exemptions (b)(3)&(4), and its disclosure is prohibited under the Trade Secrets Act(18 USC 1935), the Critical Infrastructure Information Act of 2002, 6 USC 133, and any State or local law requiring disclosure of information or records. This information must not be copied or distributed to others not agreed upon by AT&T, but in all events do not copy or distribute to such others without notification pursuant to Executive Order 12600. Floating /// Submarine // Other

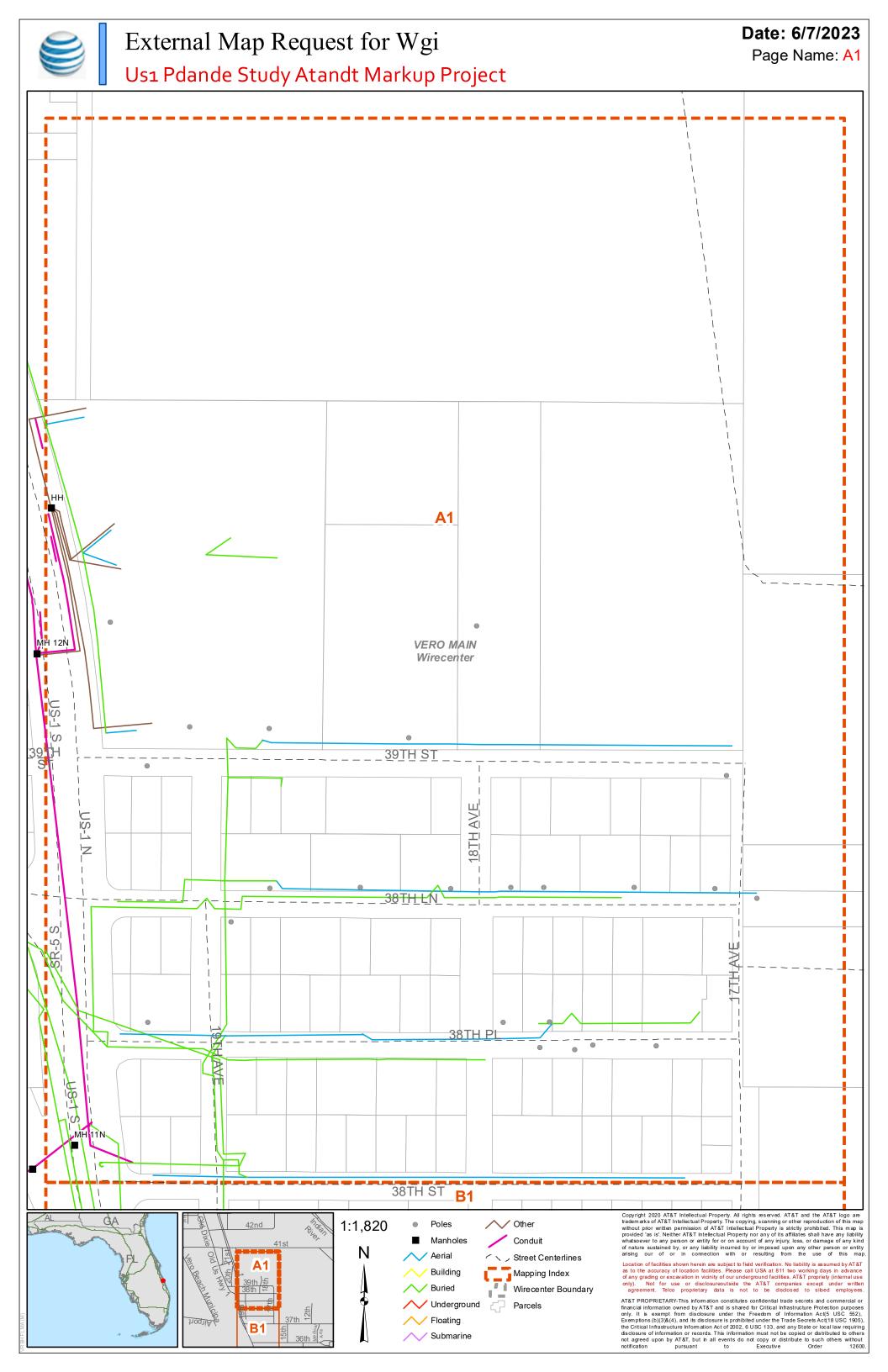


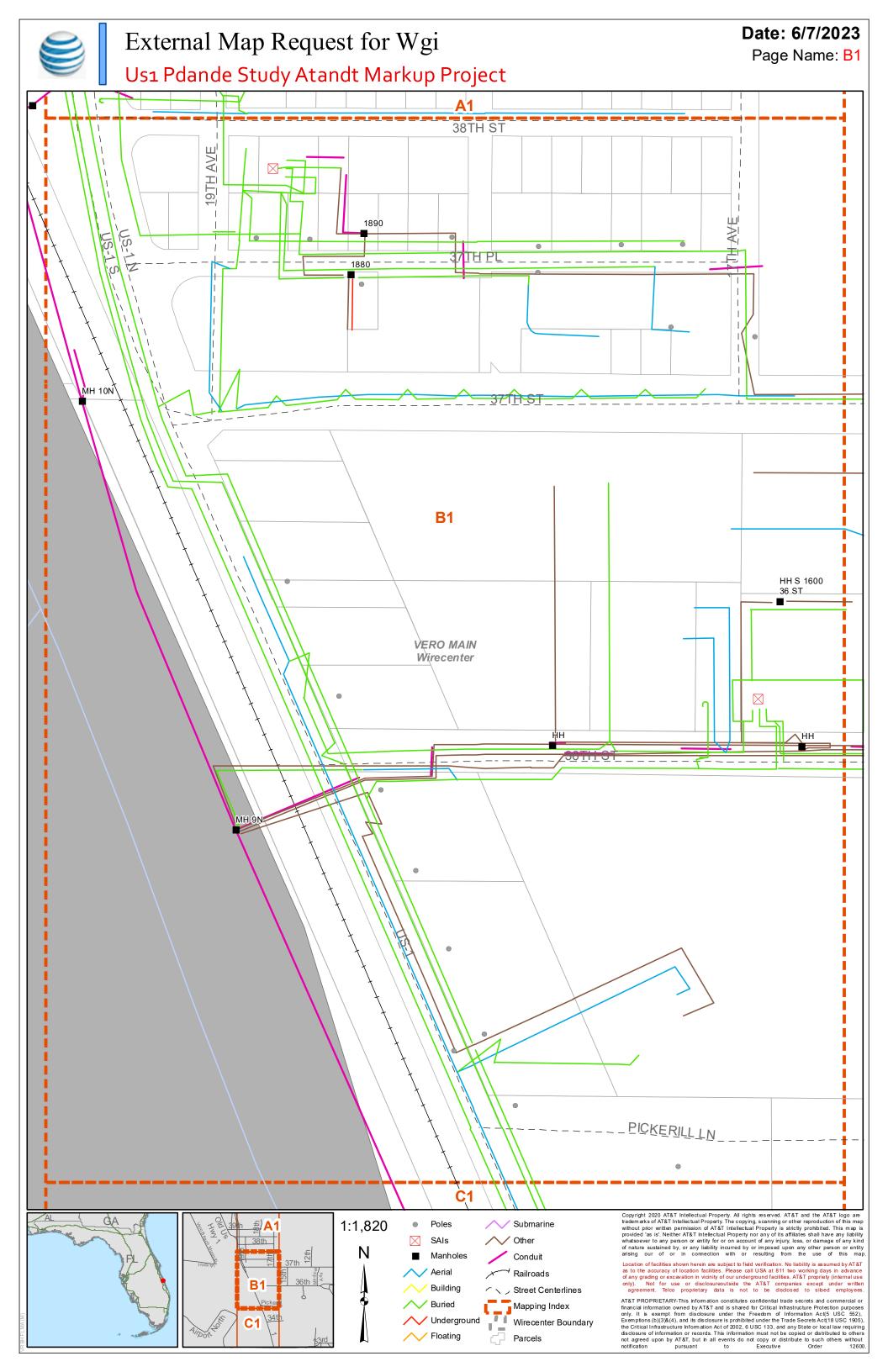


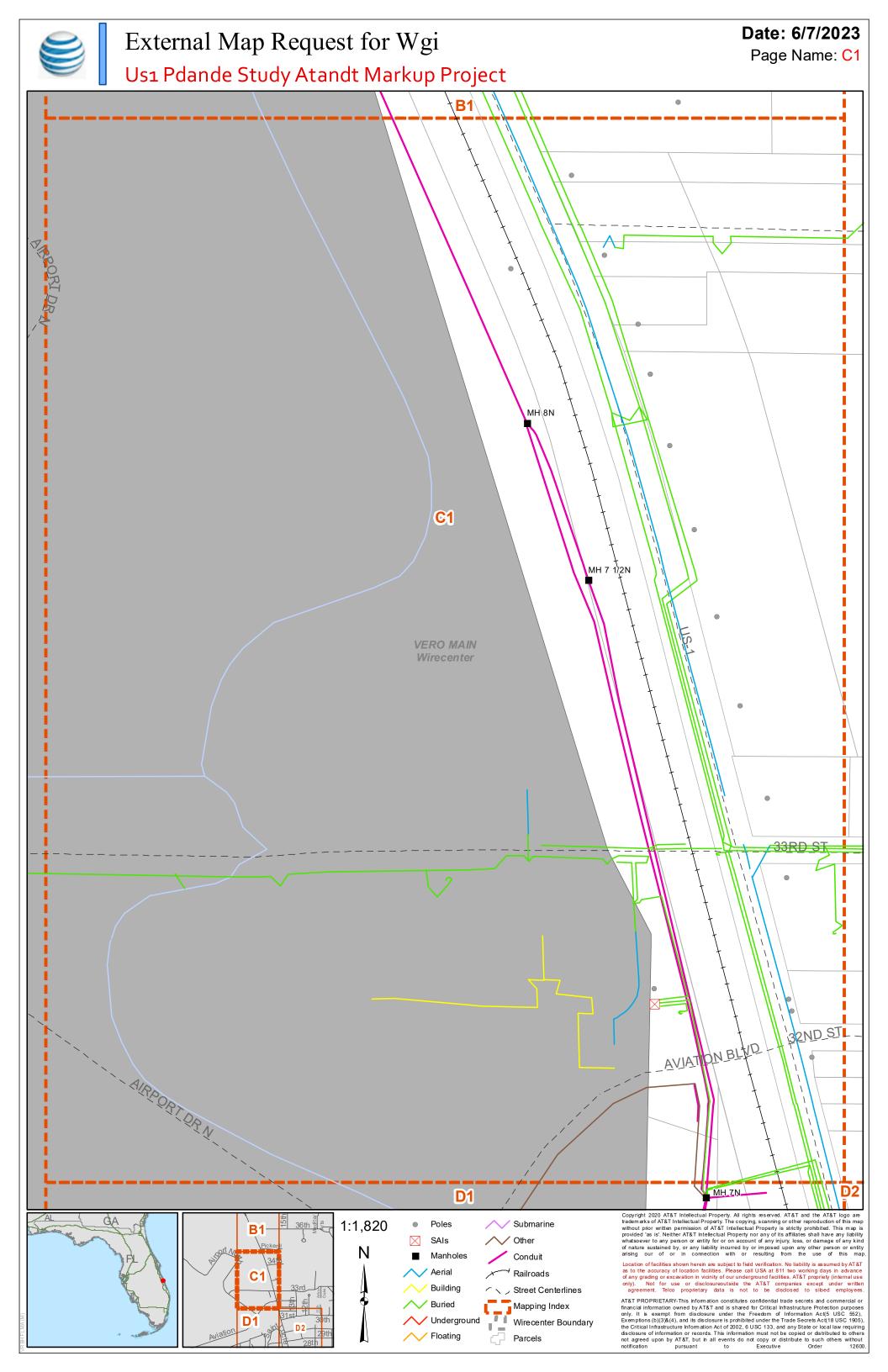


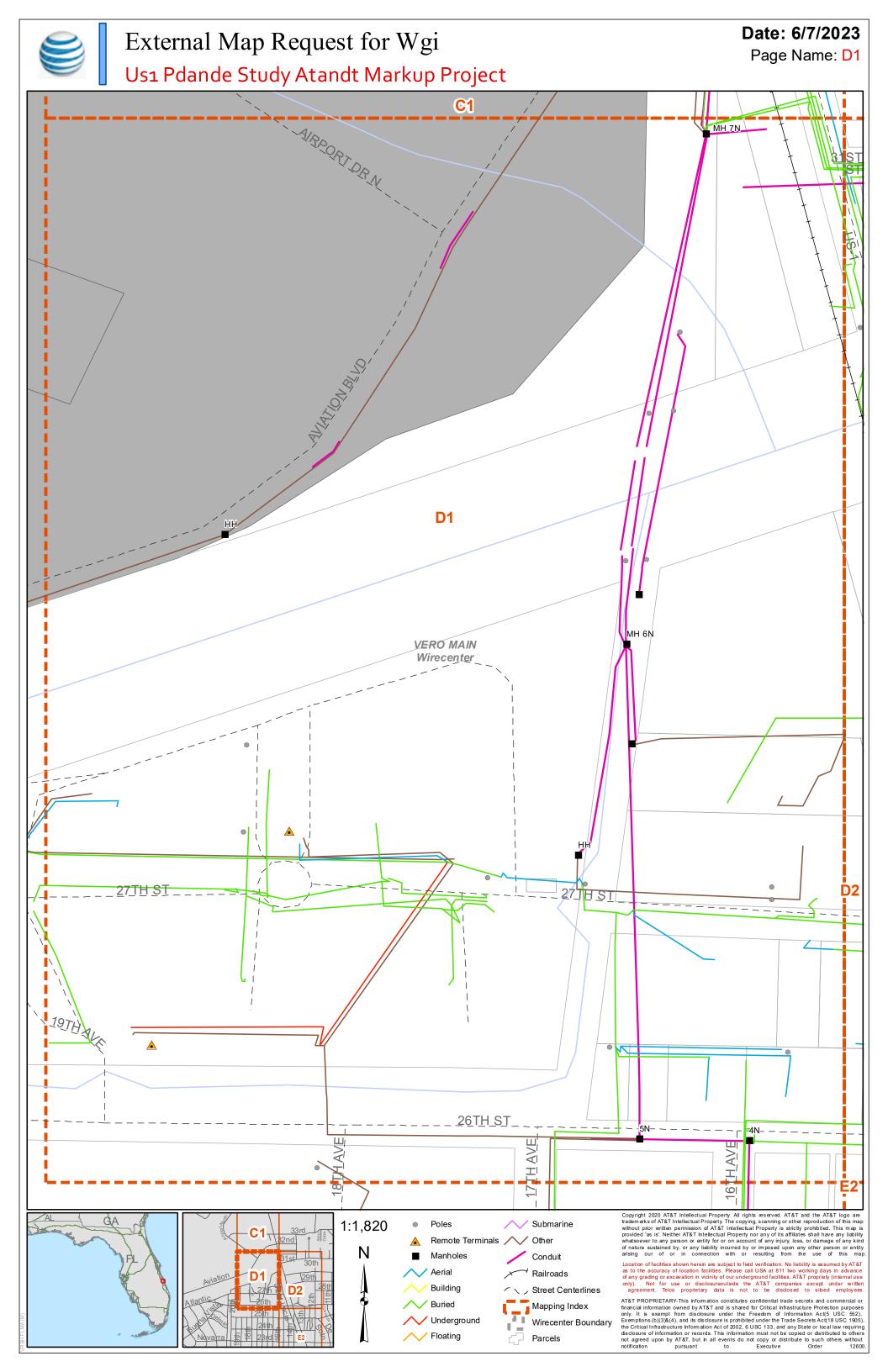


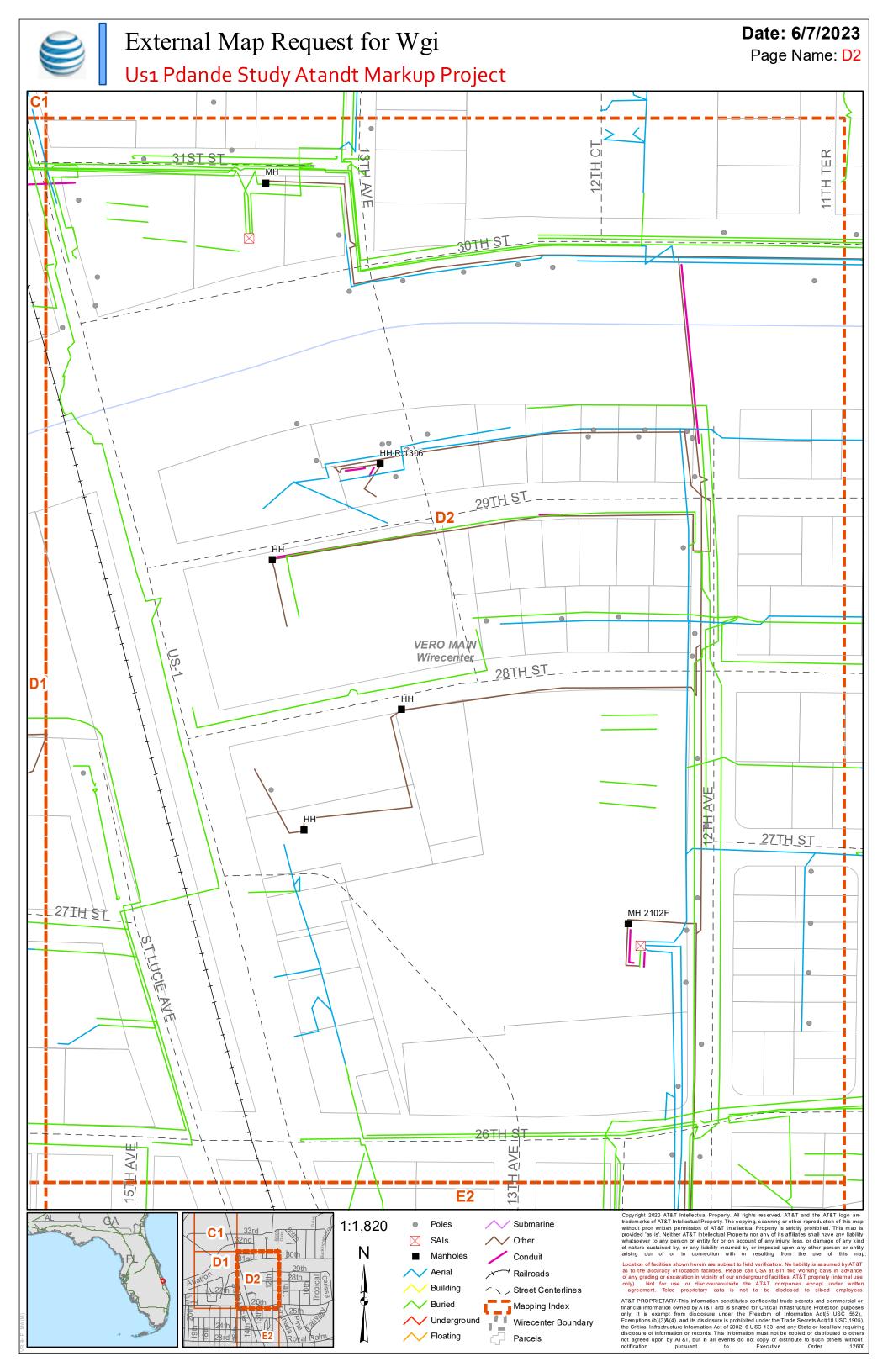


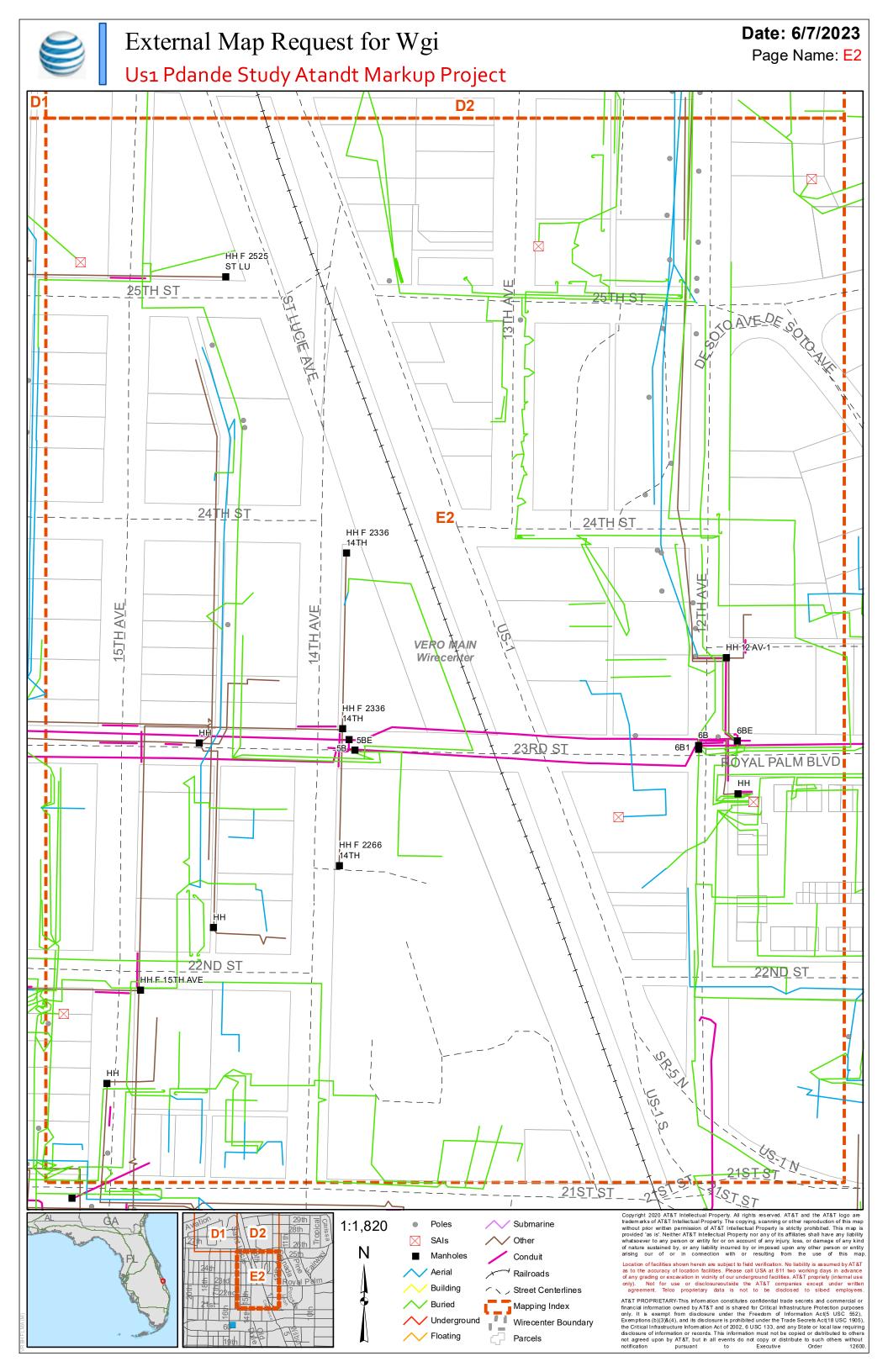












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Appendix D

AT&T Transmission





Engineering Office - Orlando

6000 Metro West Blvd. Suite 201

Orlando, FL 32835-7631 Phone: (407) 578-8000

Fax: (407) 578-7300 Email: swagner@pea-inc.net

November 2, 2022

WGI, Inc.

Attn: Matthew Phillips 2035 Vista Parkway West Palm Beach, FL 33411 (561) 687-2220

RE: FIN: 441693-1-22-01

Aviation Blvd PD&E Study Indian River County

AT&T Corp Long Lines (Transmission) maintains a high-capacity fiber optic cable within the above project limits. Based on Plans received on 10/28/2022 detailed plans will be necessary to determine any or no conflict with proposed construction at this time. Please send updated plans to this office as they become available. If you have any questions, please call this office at (407) 578-8000.

All correspondence and coordination herein are with regards to att Corp. (Transmission) which is not
responsible for facilities owned and managed by Trans Connectivity Group (TCG), LLC d/b/a TCA. Any
questions, inquiries, and/or clarifications with regards to TCA facilities should be addressed to
FL-RELOCATIONS@trecgroup.com.

Sincerely,

Kenneth S. Wagner Assistant Engineer Representing AT&T, Inc.

KSW

Cc: G. Jacobson (AT&T) File: 22-01-001

Attention: The information contained in this E-mail message is privileged and confidential information intended only for the use of the individual(s) named above. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution or copy of this communication is strictly prohibited. If you have received this communication in error, please contact the sender by reply E-mail and destroy all copies of the original message. Thank you.

Kenneth Wagner

From:

Matthew Phillips < Matthew.Phillips@wginc.com>

Sent:

Friday, October 28, 2022 11:51 AM

To:

Reid, Ezekiel; tyoung@covb.org; Harrison Youngblood; Kenneth Wagner; Puglisi,

Andrew; jon.baker@t-mobile.com; Carr, Donovan Ralph; Tiburcio, Daniel;

whoward@covb.org; Rob Morris; FOLKERTS, LUKE; Haskett, Danny; Rene, Jude; Laura

Glass

Subject:

FM: 441693-1-22-02 Aviation Blvd PD&E Study from 27th Ave to US1/SR5 and SR5

from 21st St. to 37th St.

Attachments:

Mimecast Large File Send Instructions

I'm using Mimecast to share large files with you. Please see the attached instructions.

RE:

ADJUSTMENT OF UTILITIES - STATE STATUTES CHAPTER 337.403

Project:

SR-5(US-1) at Aviation Boulevard PD&E Study

Description:

Aviation Blvd PD&E Study from 27th Ave to US1/SR5 and SR5 from 21st St. to 37th St.

County:

Indian River County

FPID:

441693-1-22-02

Project Development & Environmental (PD&E) Utility Assessment Report

The Florida Department of Transportation (FDOT), is conducting a Project Development and Environment (PD&E) Study for the improvements to the above roadway(s). The PD&E study limits begin at Aviation Blvd. & 27th Ave and go east to US1/SR5, then continue along US from 21st St., north to 37th St. (See Attached Project Location map). In order to determine the best alternative for this project, we need to determine the location and anticipated impacts for all existing, proposed and out-of-service utility facilities within the project study limits, both underground and overhead.

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 the study limits, and indicate whether underground or aerial. Along with the marked plans, provide any atlas maps, GIS or
 other additional plans or information that might help to describe and define your facilities.
- Marked plans to show the limits of any easements, subordinations, or other property interests you may have along or within the study limits, and any existing or proposed encroachments onto those properties.
- A lump sum order-of-magnitude relocation cost estimate that approximates the cost to adjust or relocate <u>all</u> of your utilities
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October 25, 2022

RE: ADJUSTMENT OF UTILITIES – STATE STATUTES CHAPTER 337.403

Project:

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Aviation Blvd PD&E Study from 27th Ave to US1/SR5 and SR5 from 21st St. to 37th St.

County:

Indian River County

FPID:

441693-1-22-02

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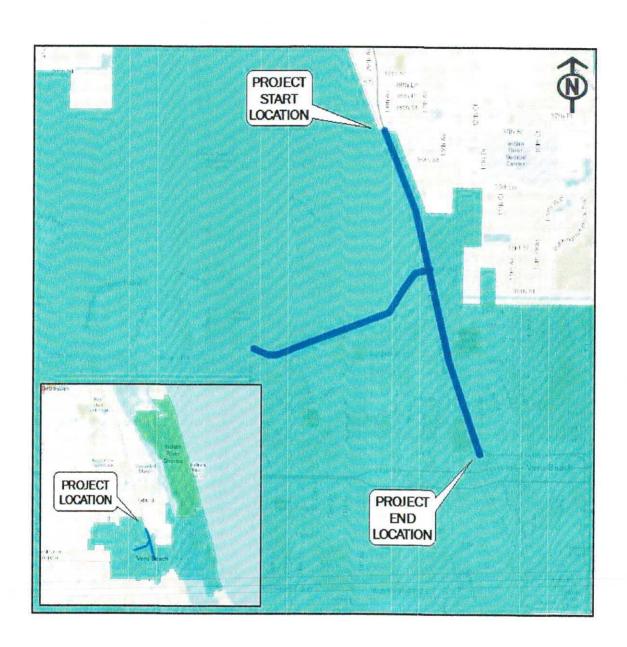
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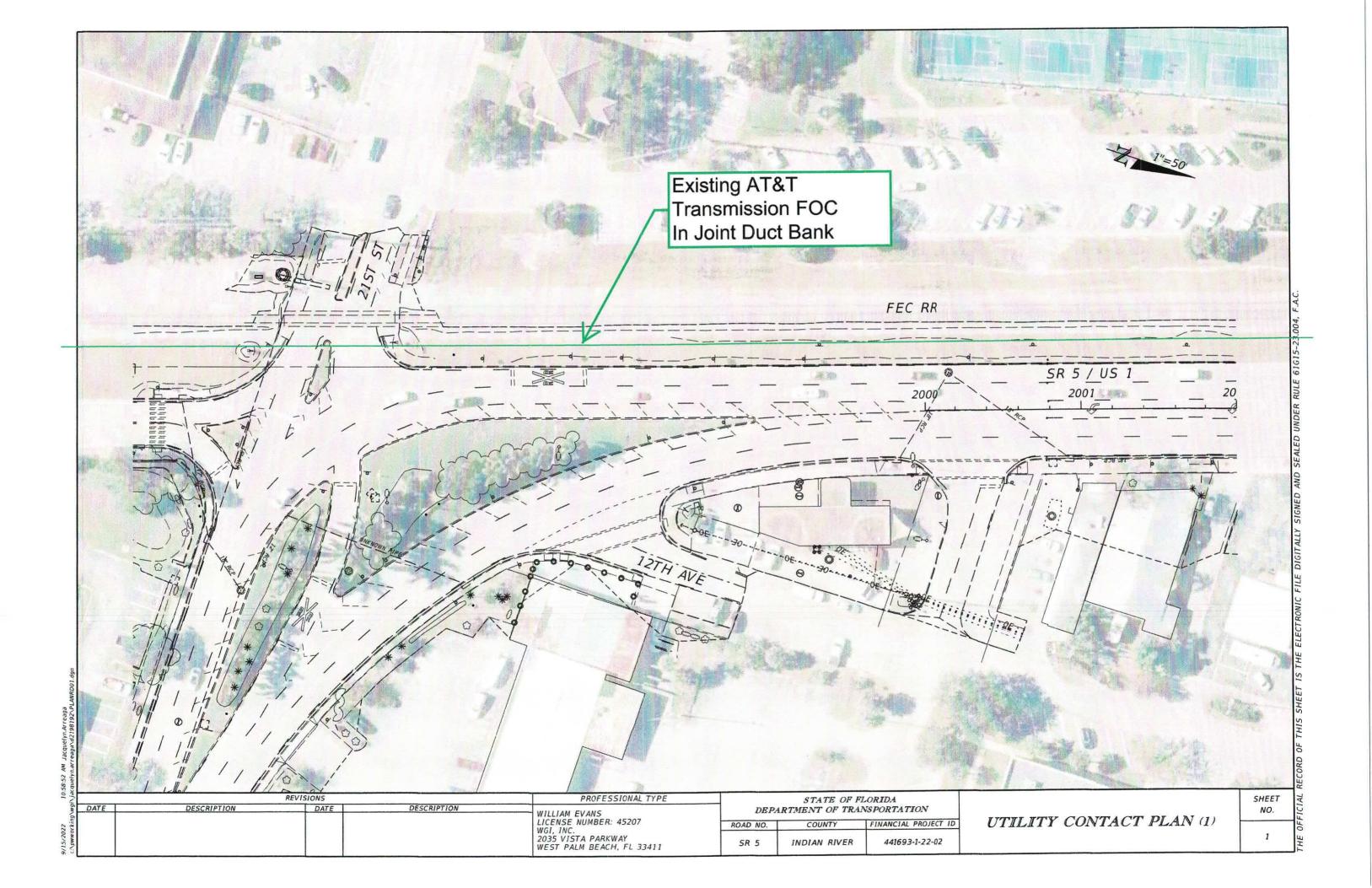
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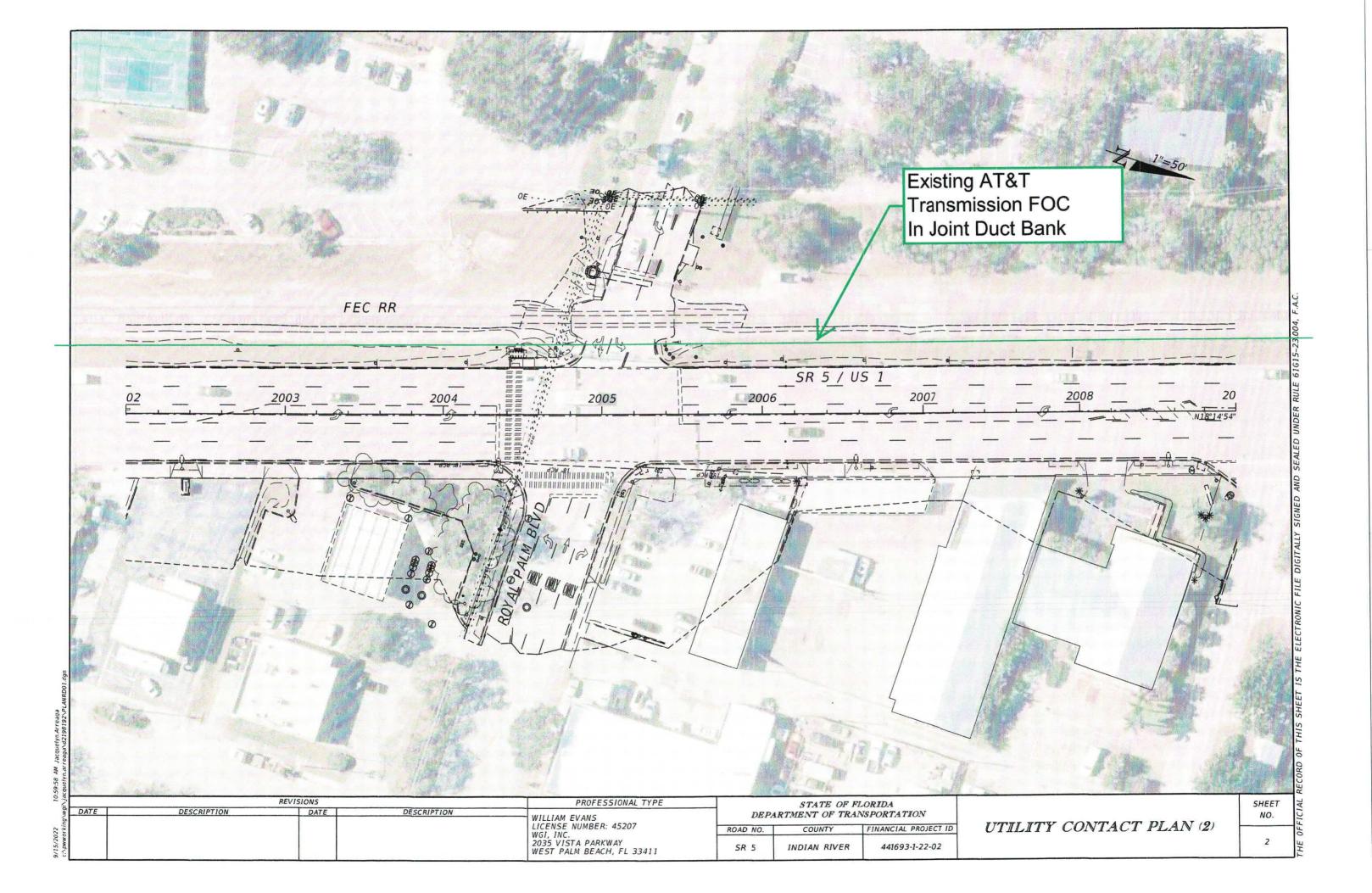
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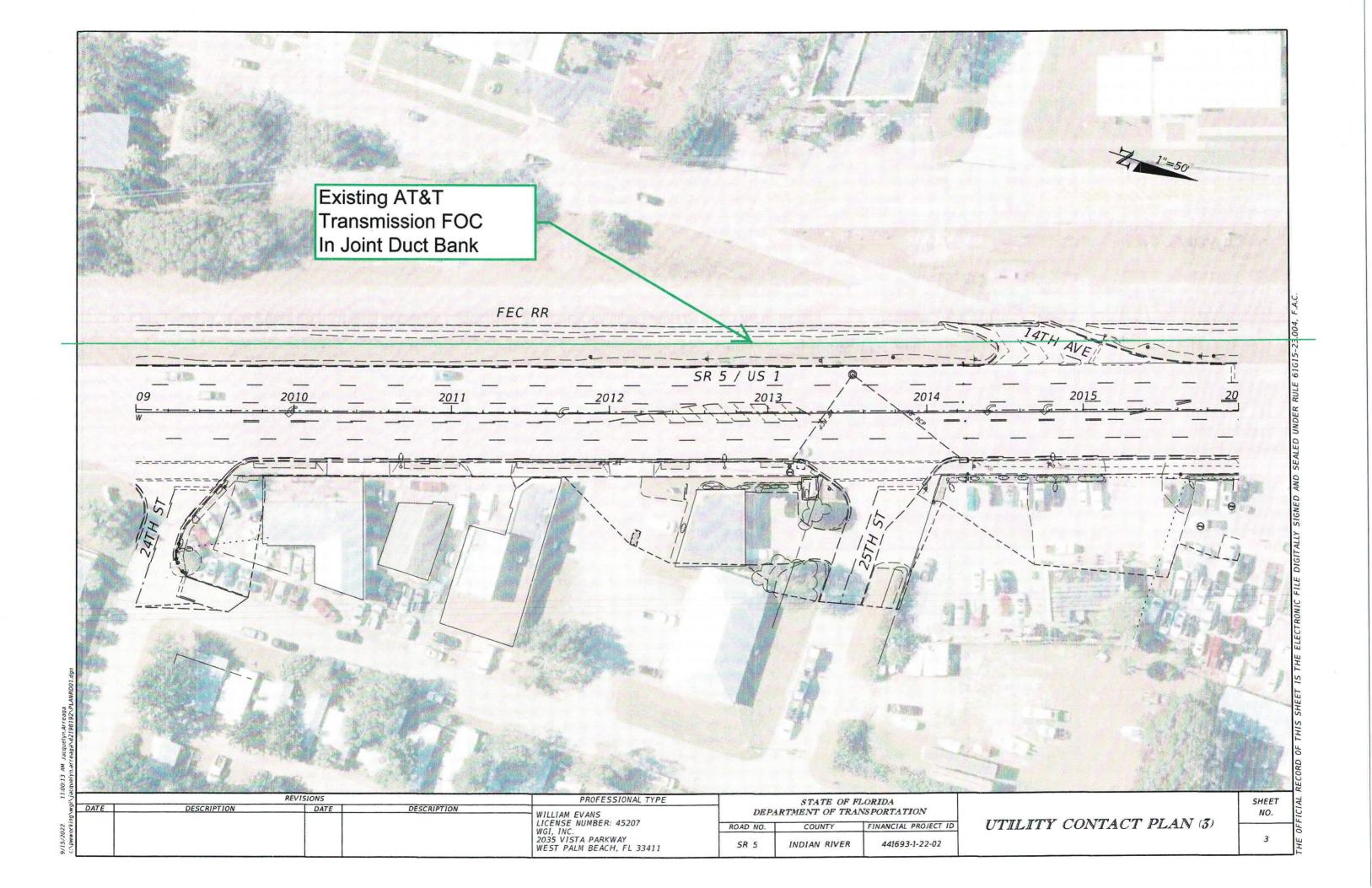
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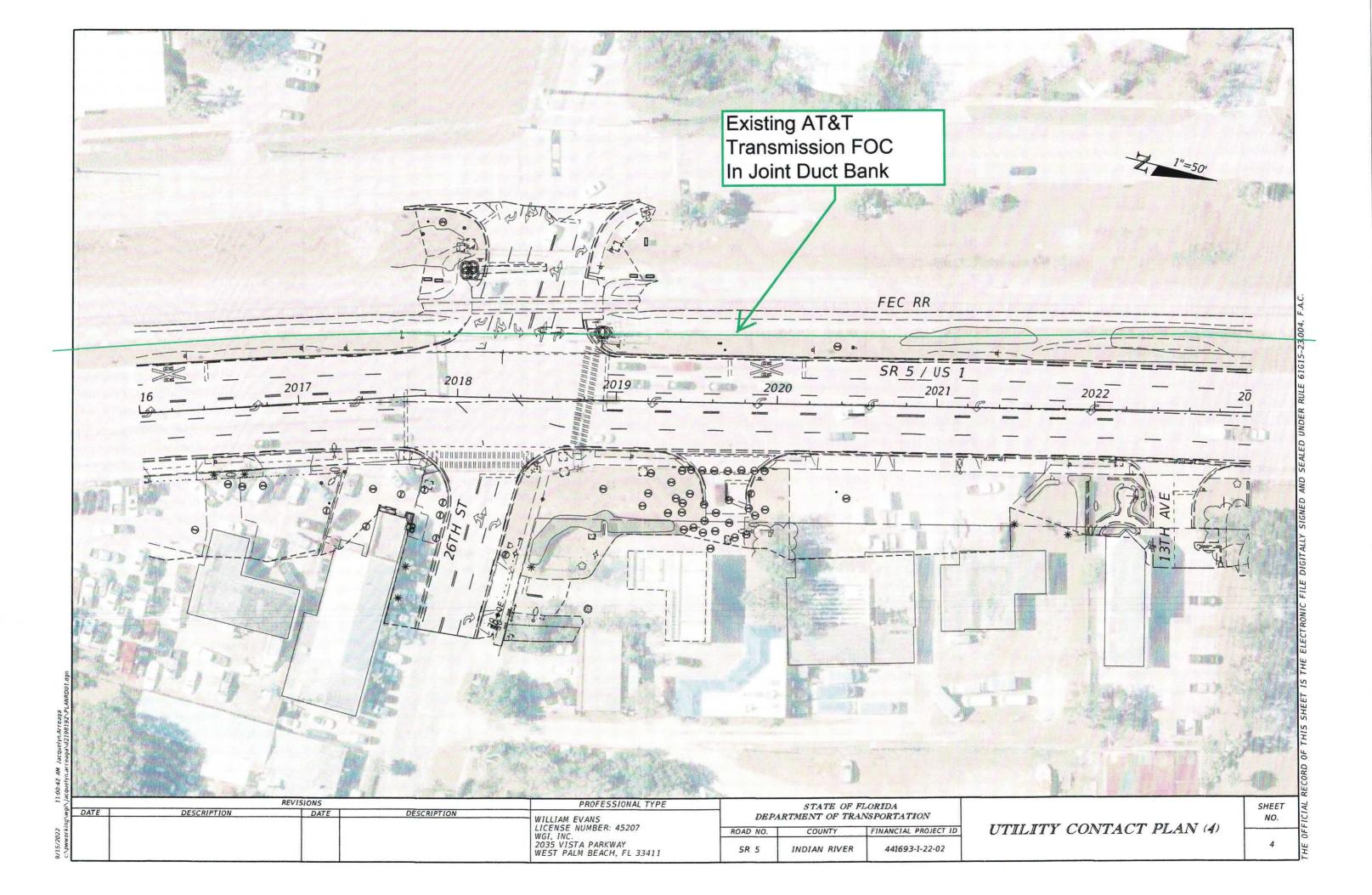
Matthew Phillips Sr. Utility Coordinator

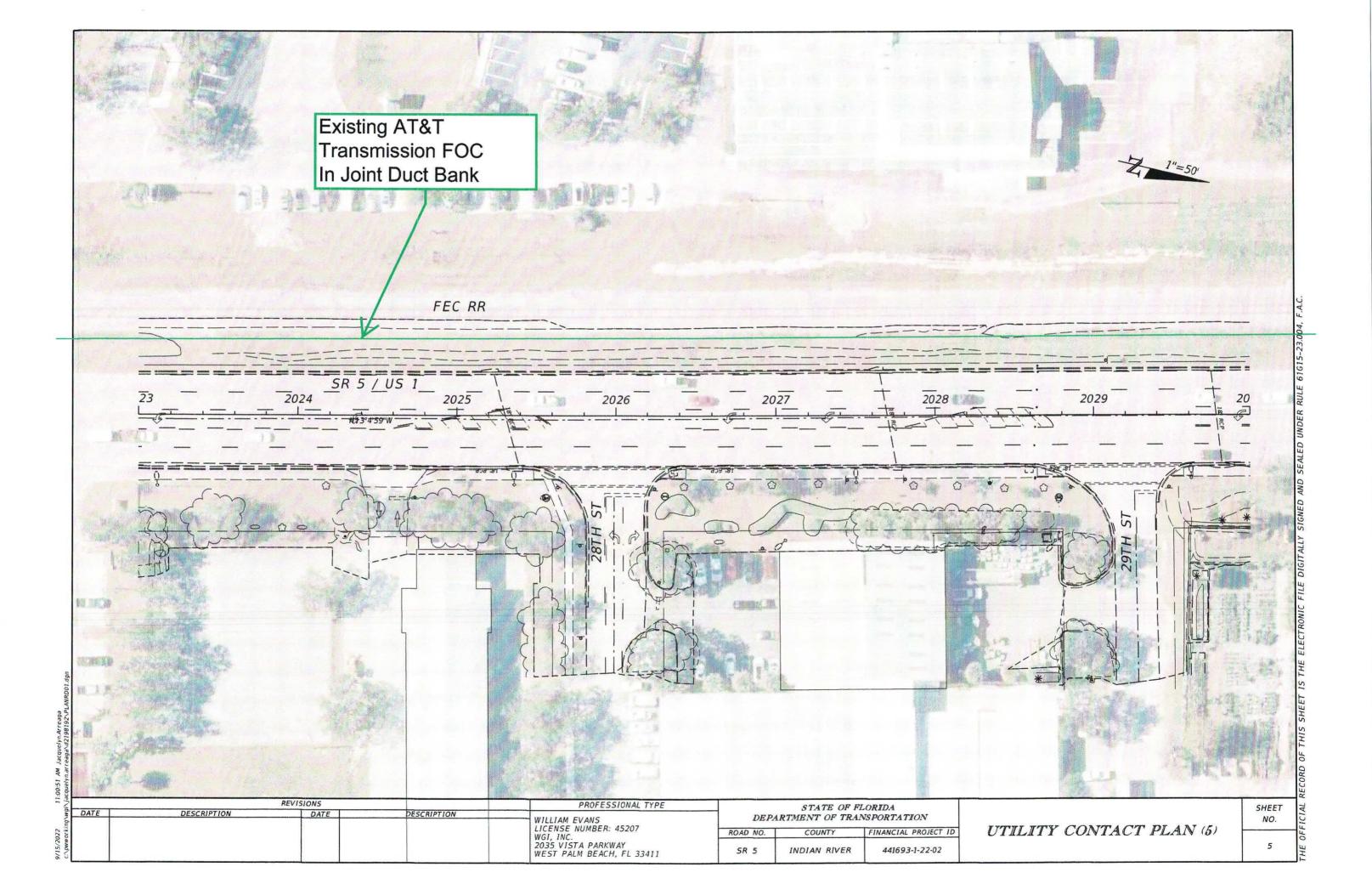


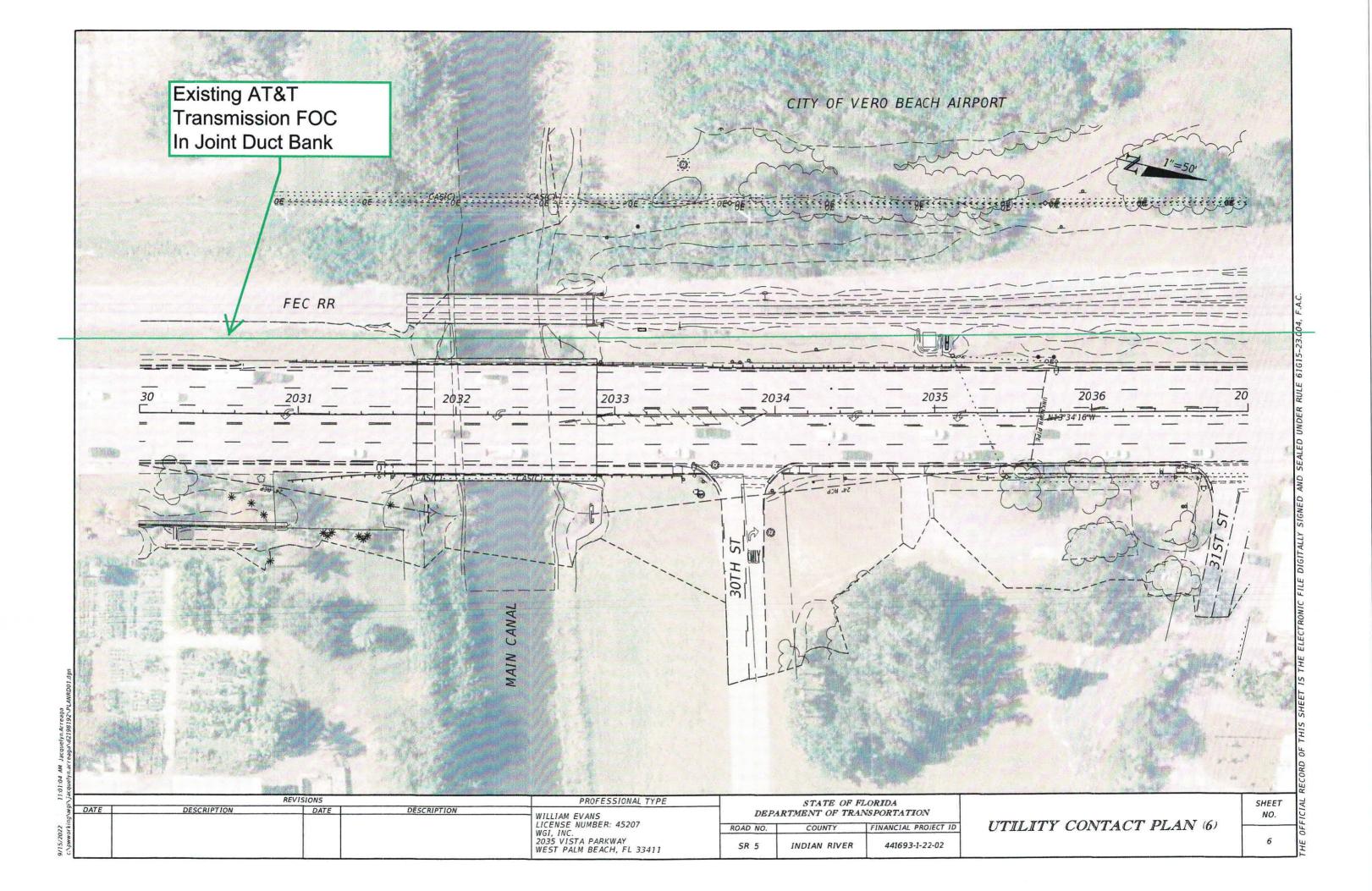


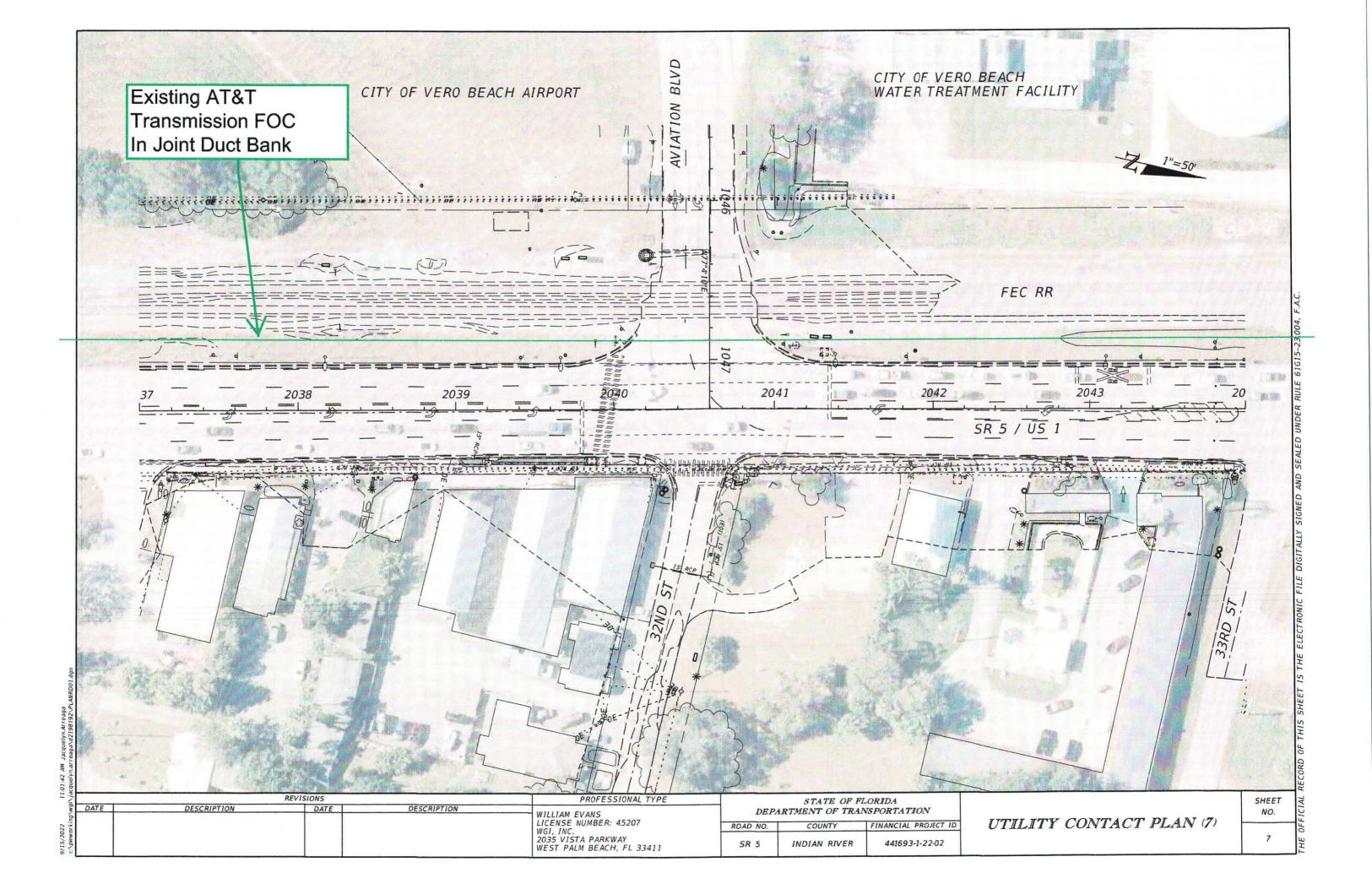


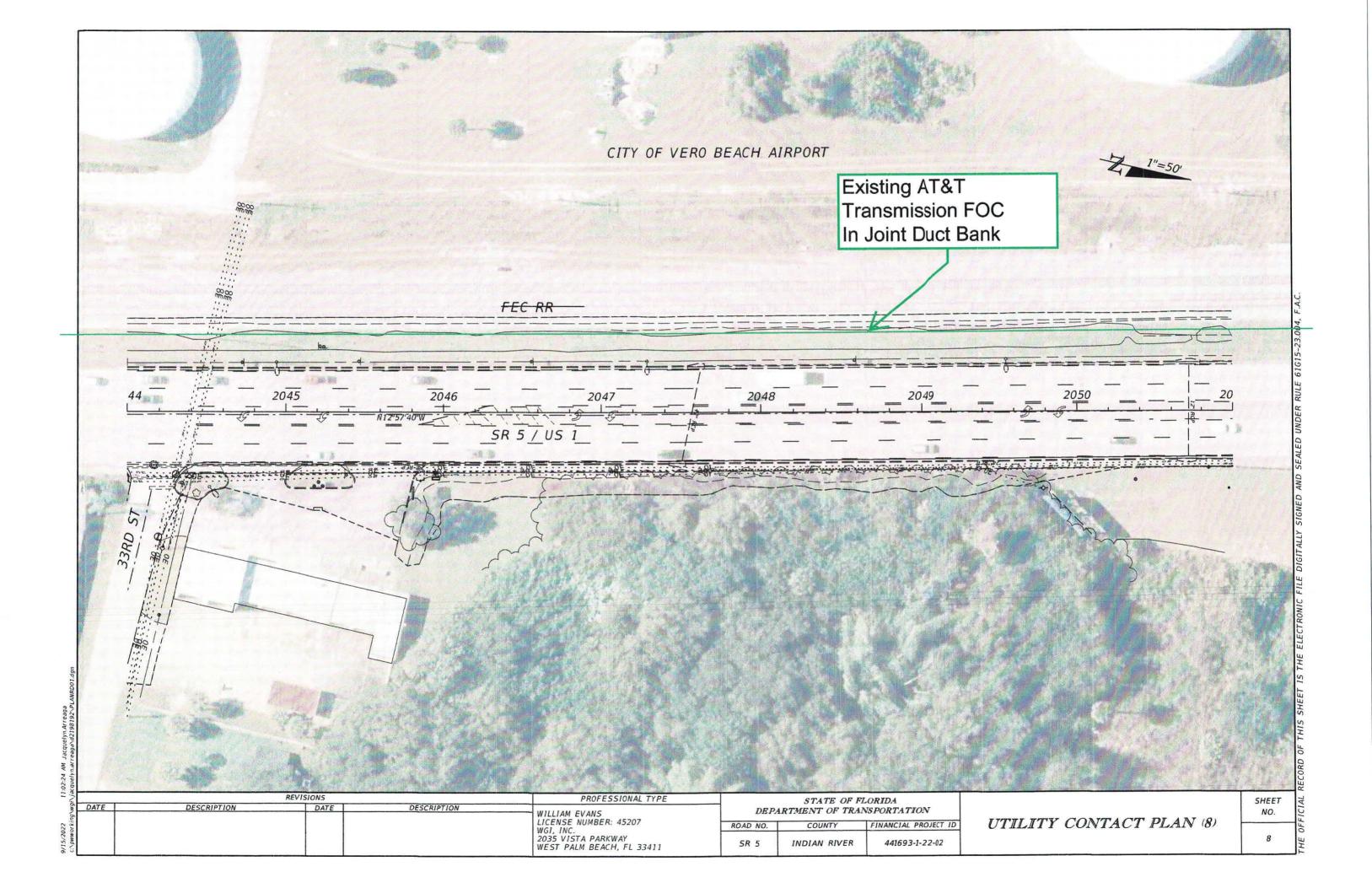


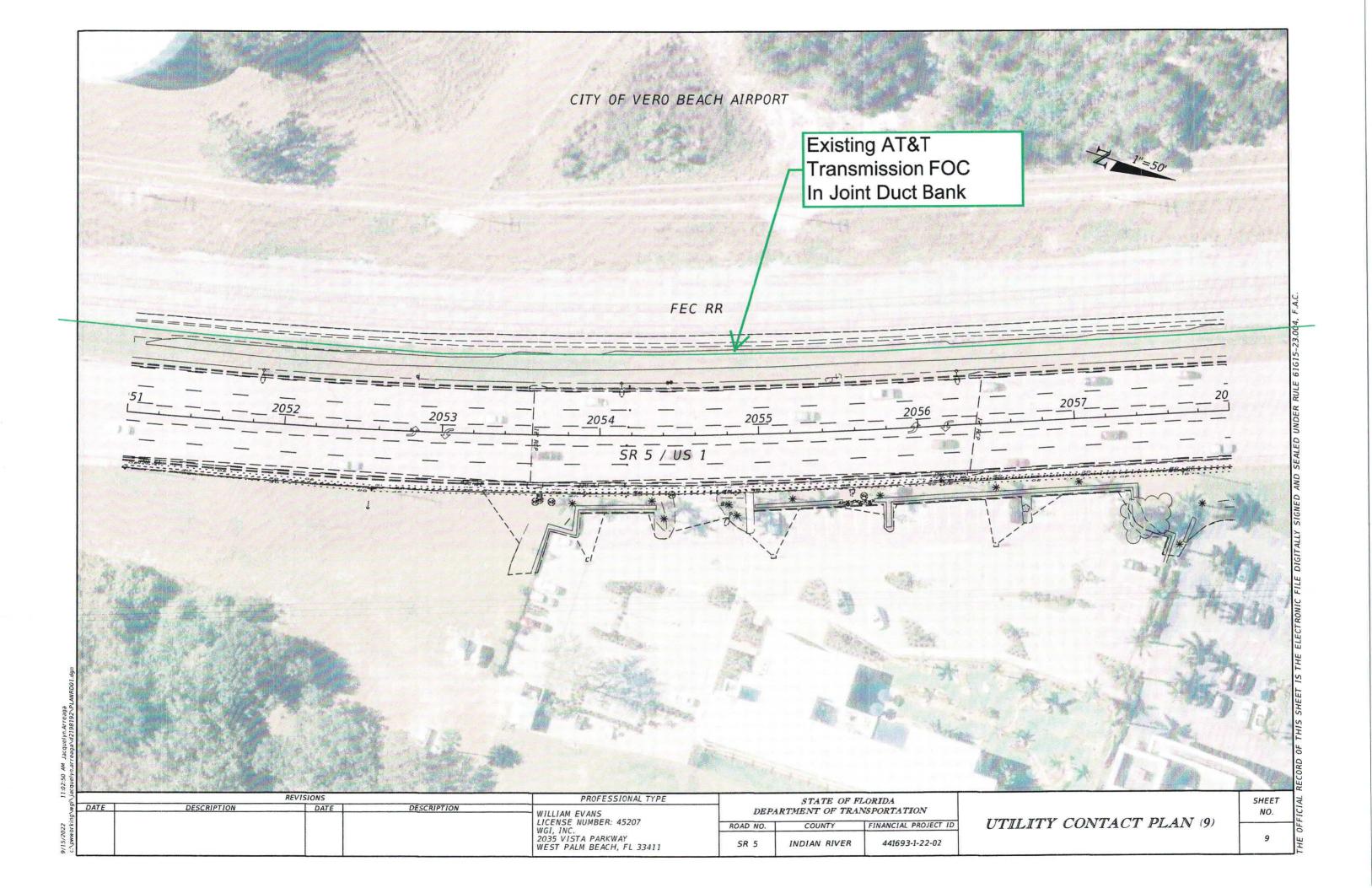


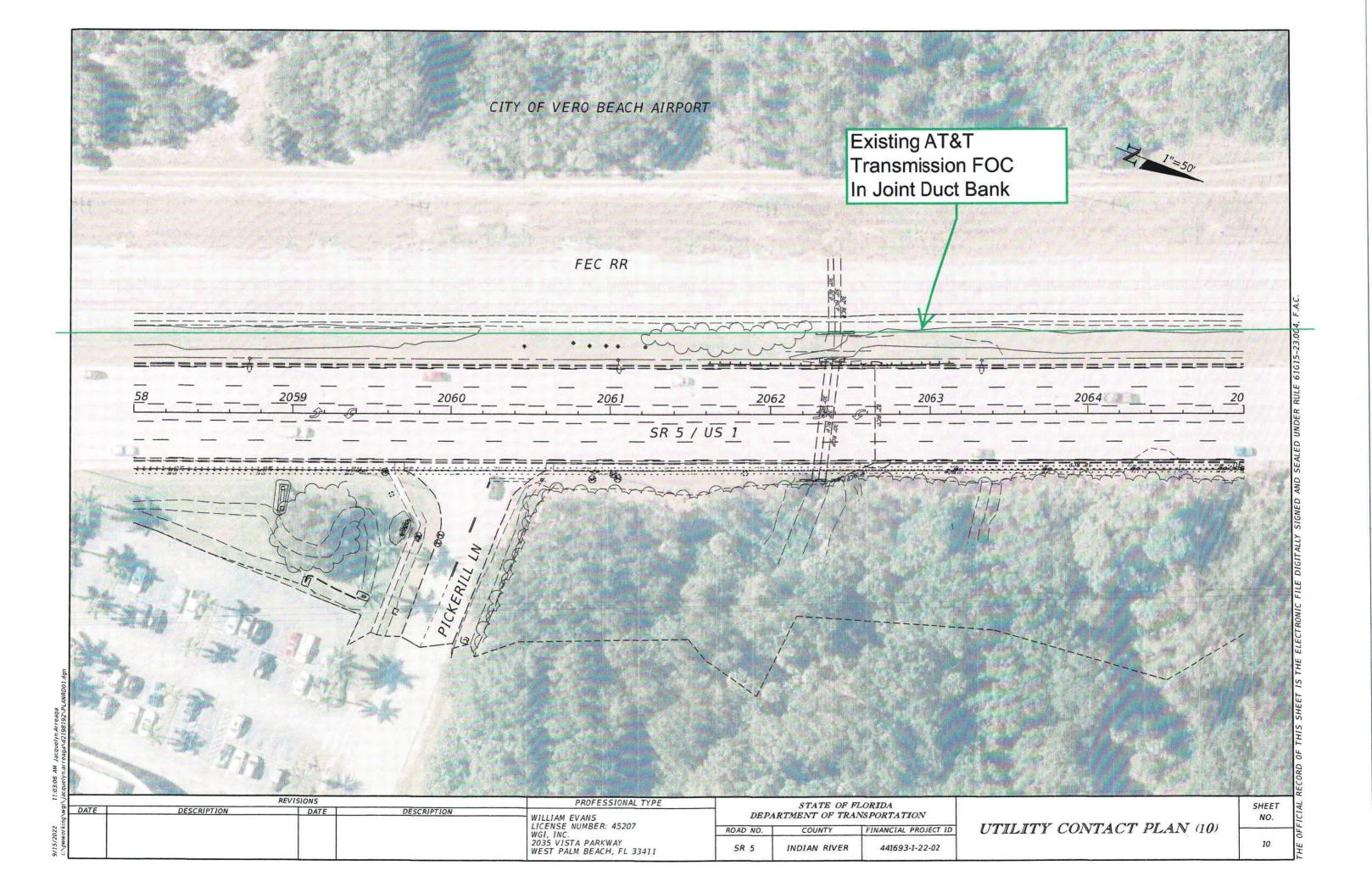


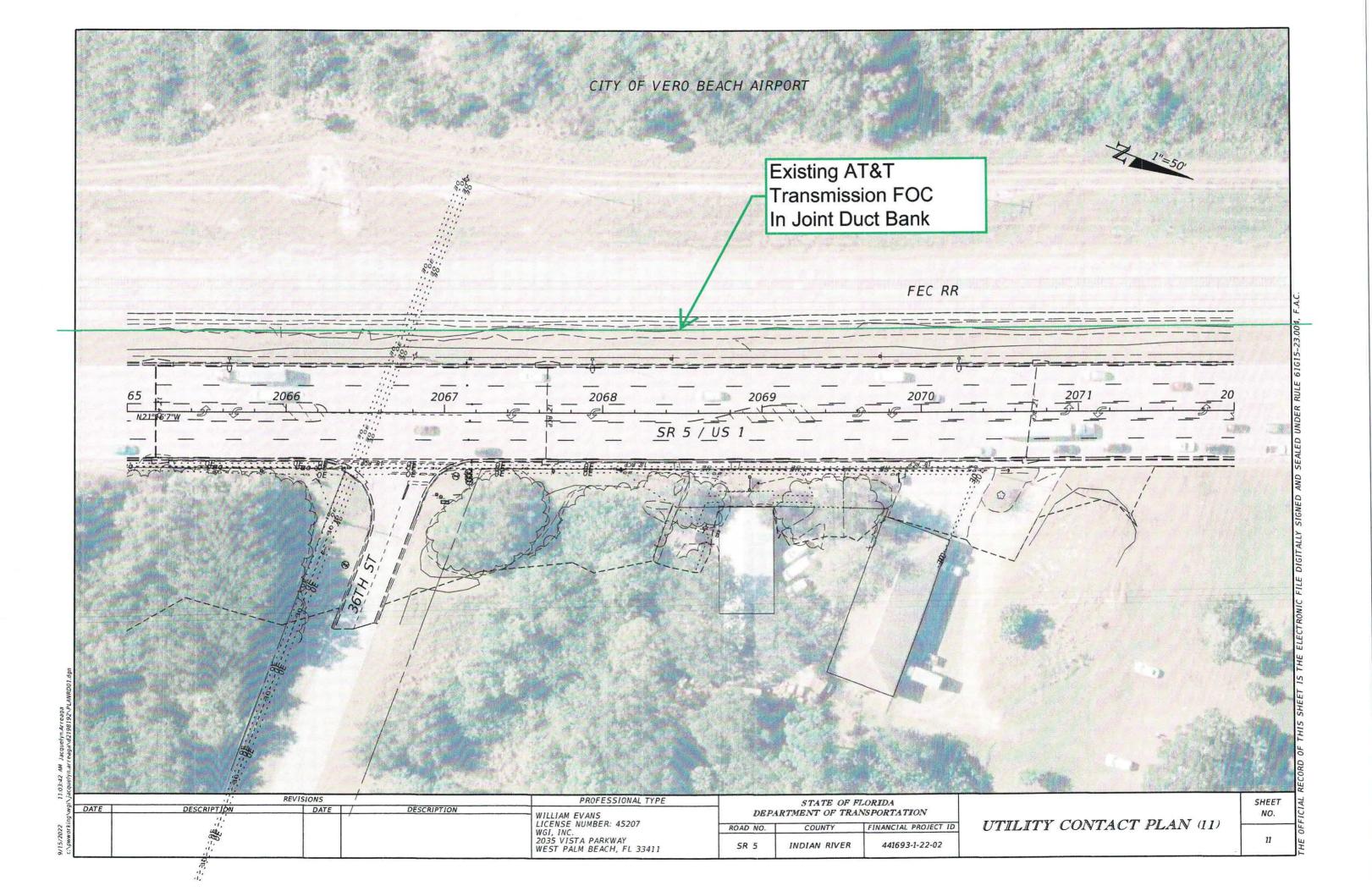


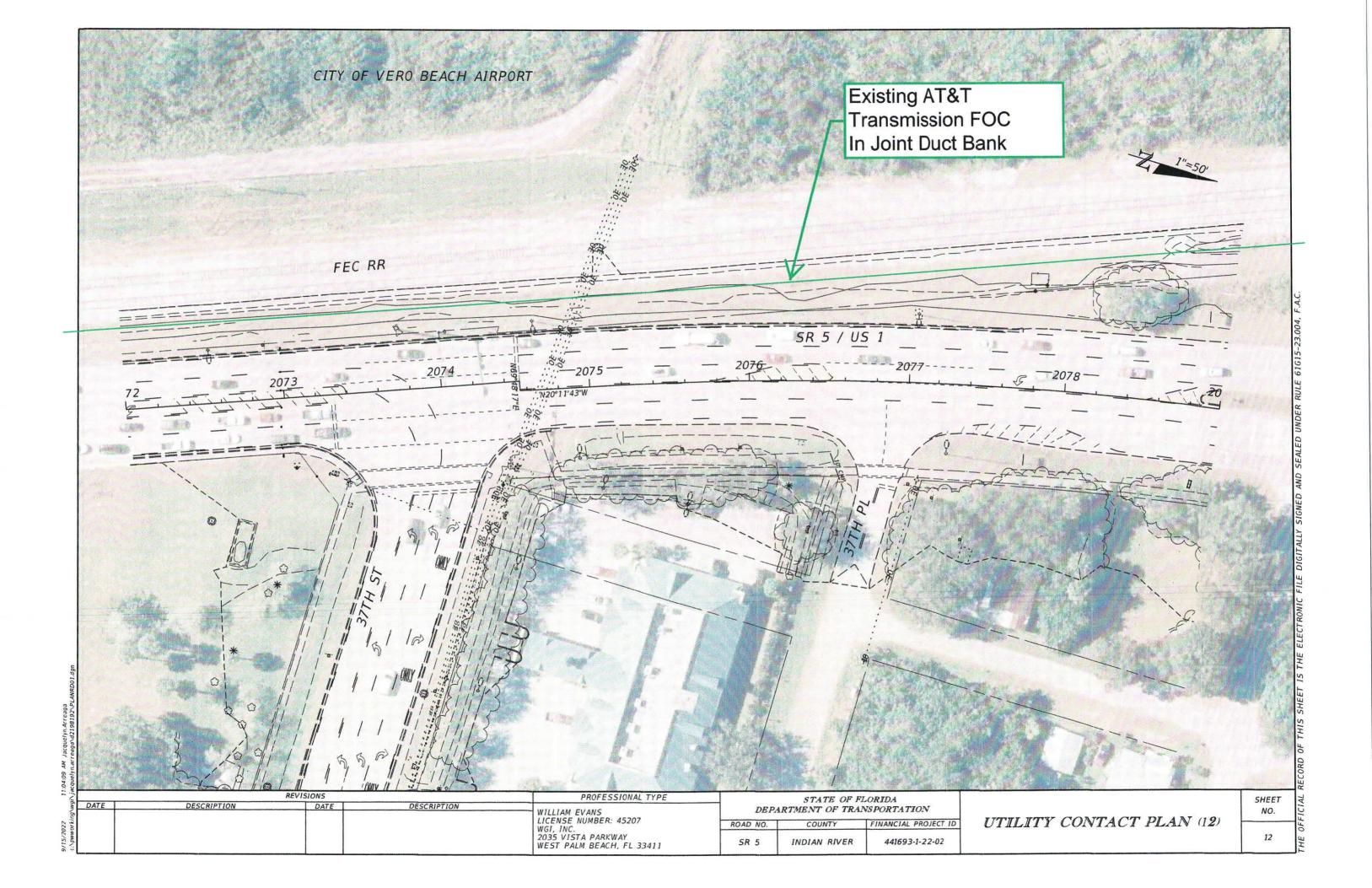


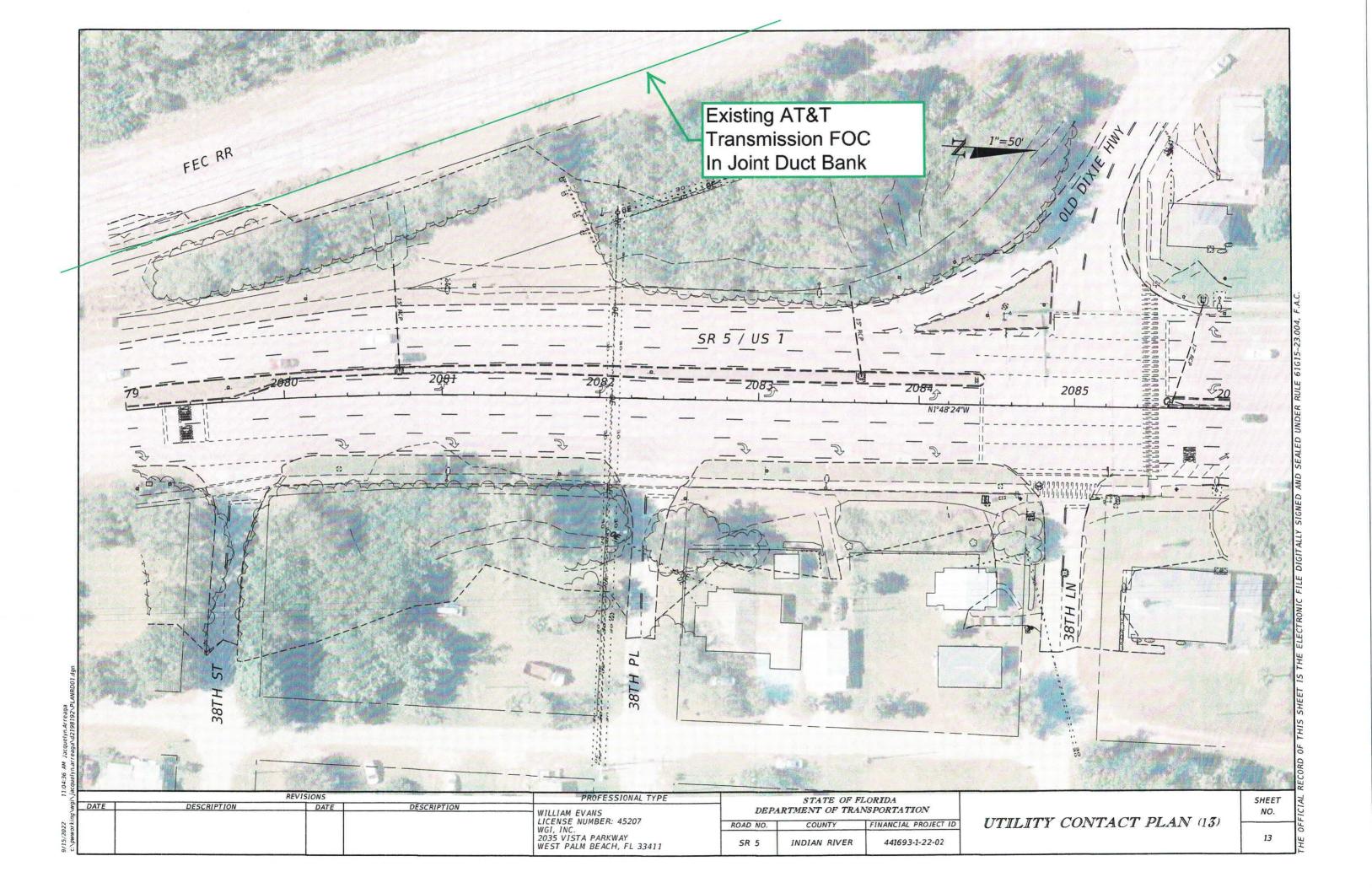


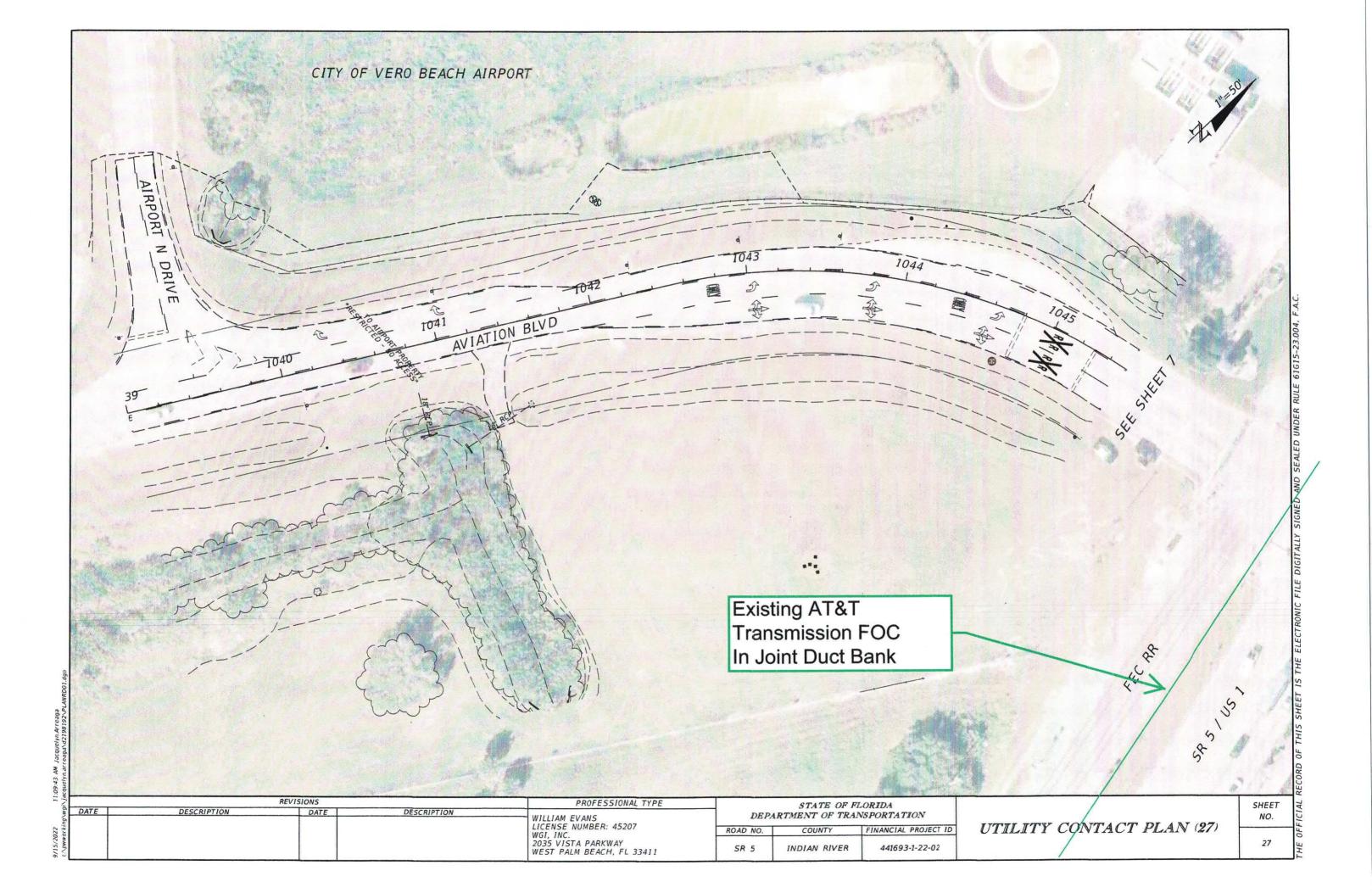








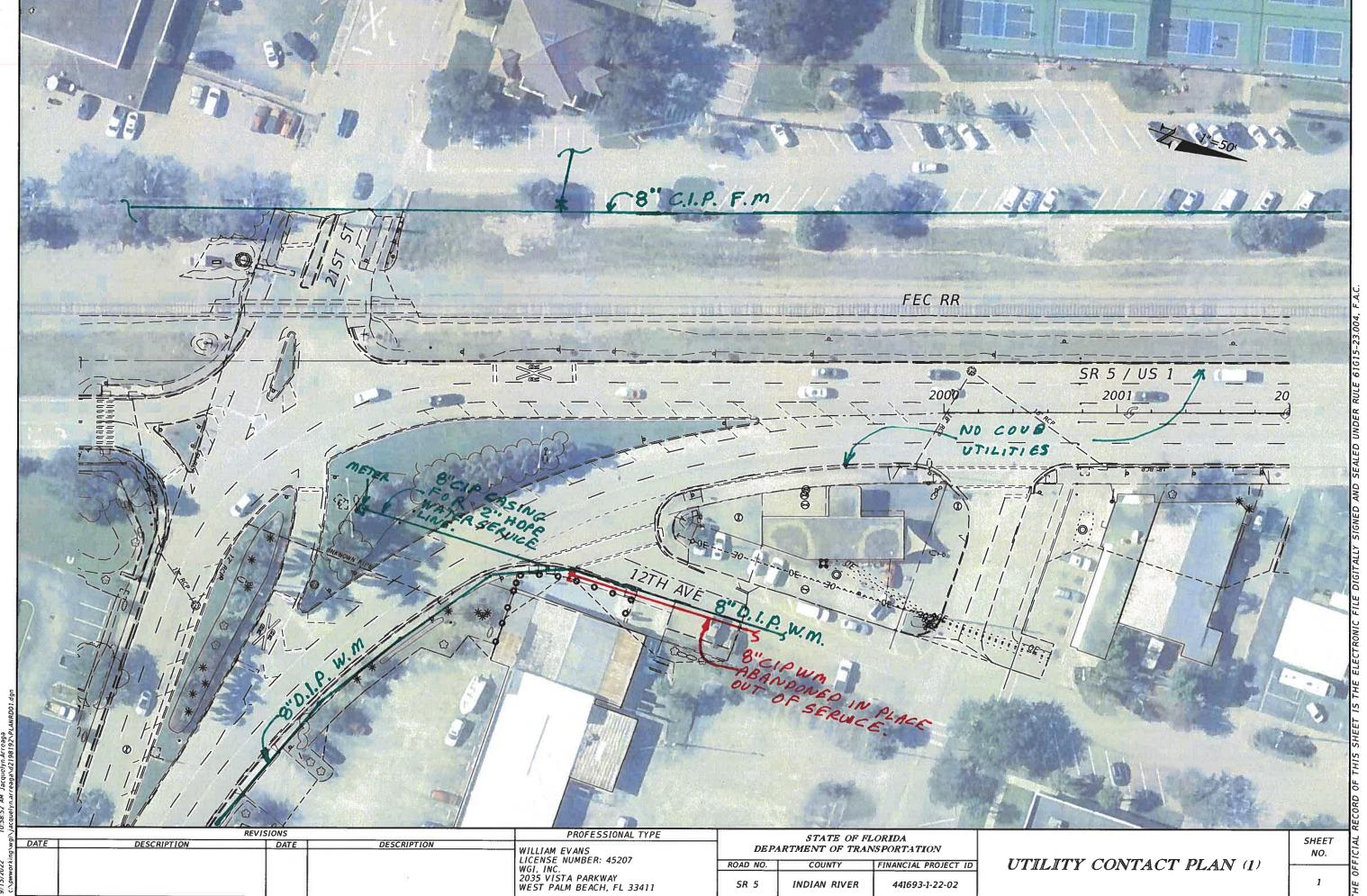


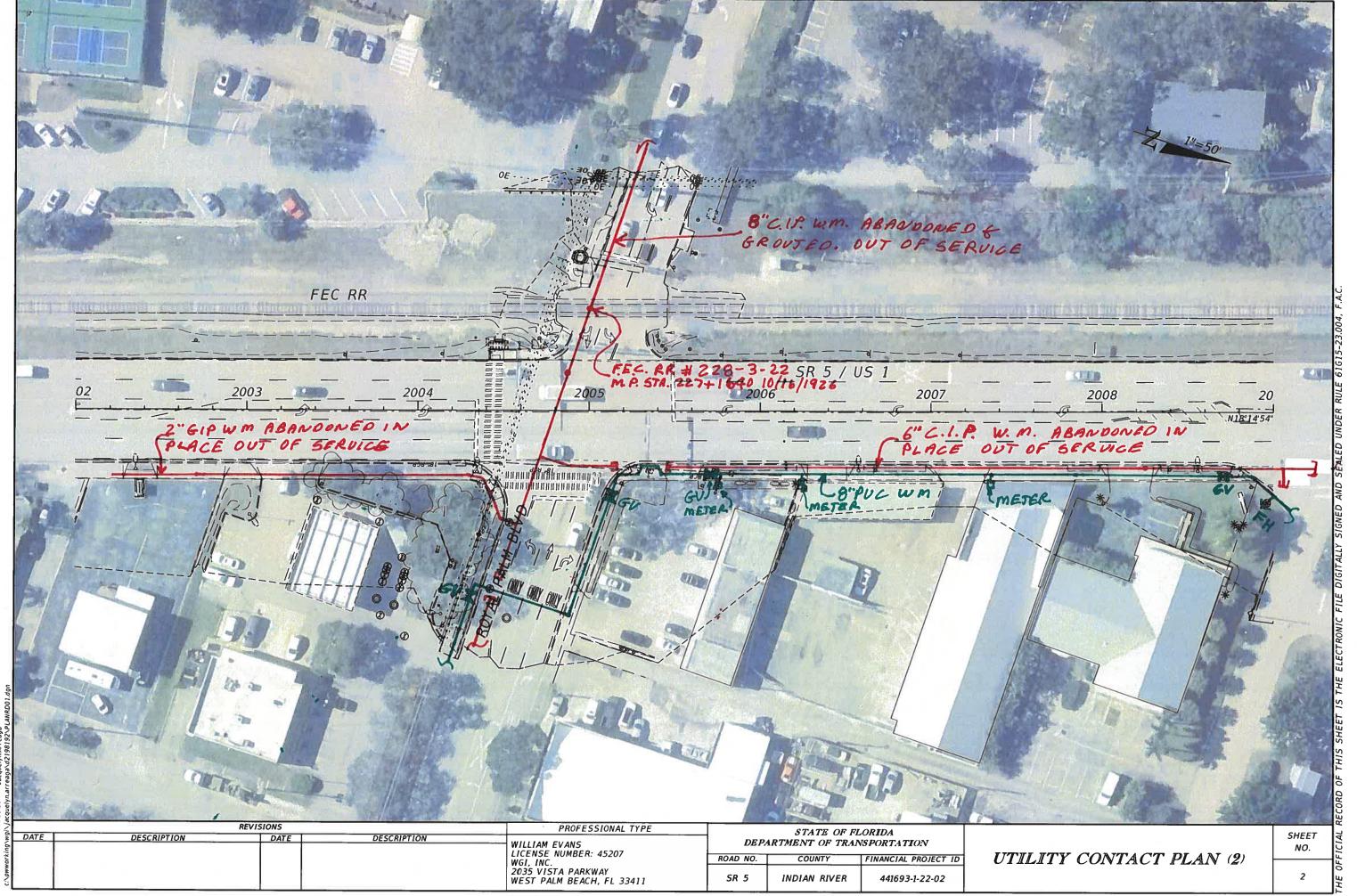


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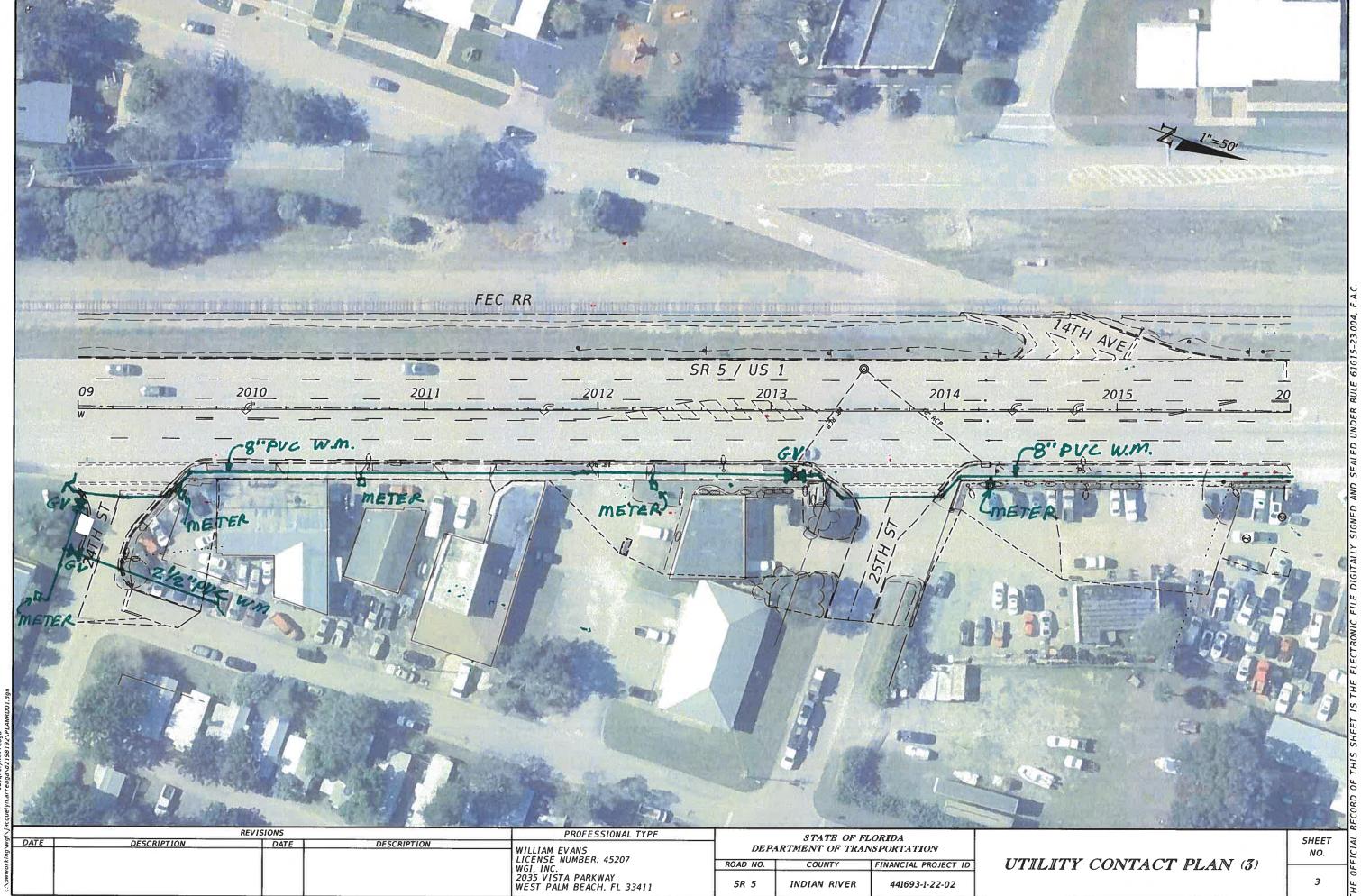
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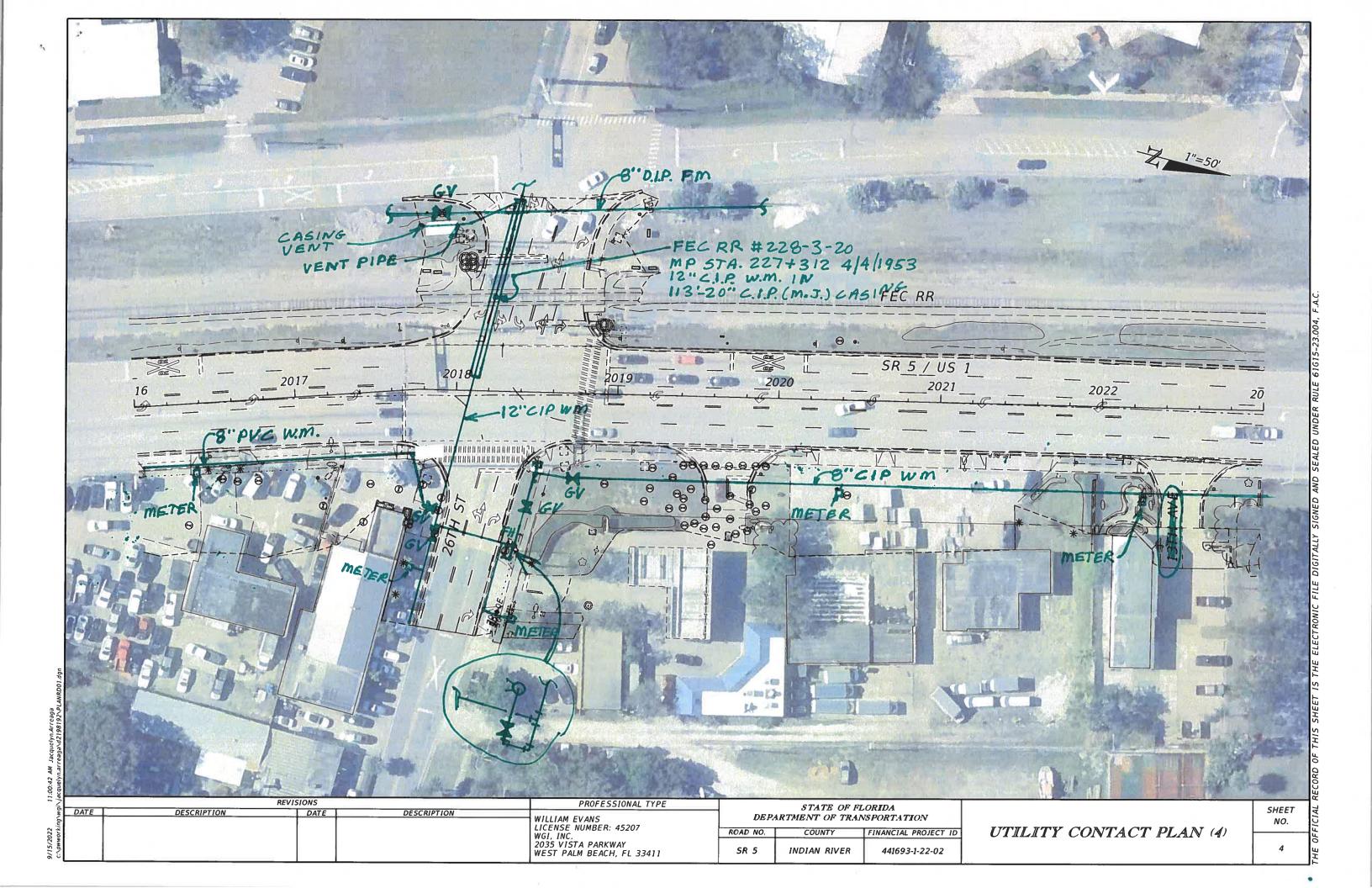
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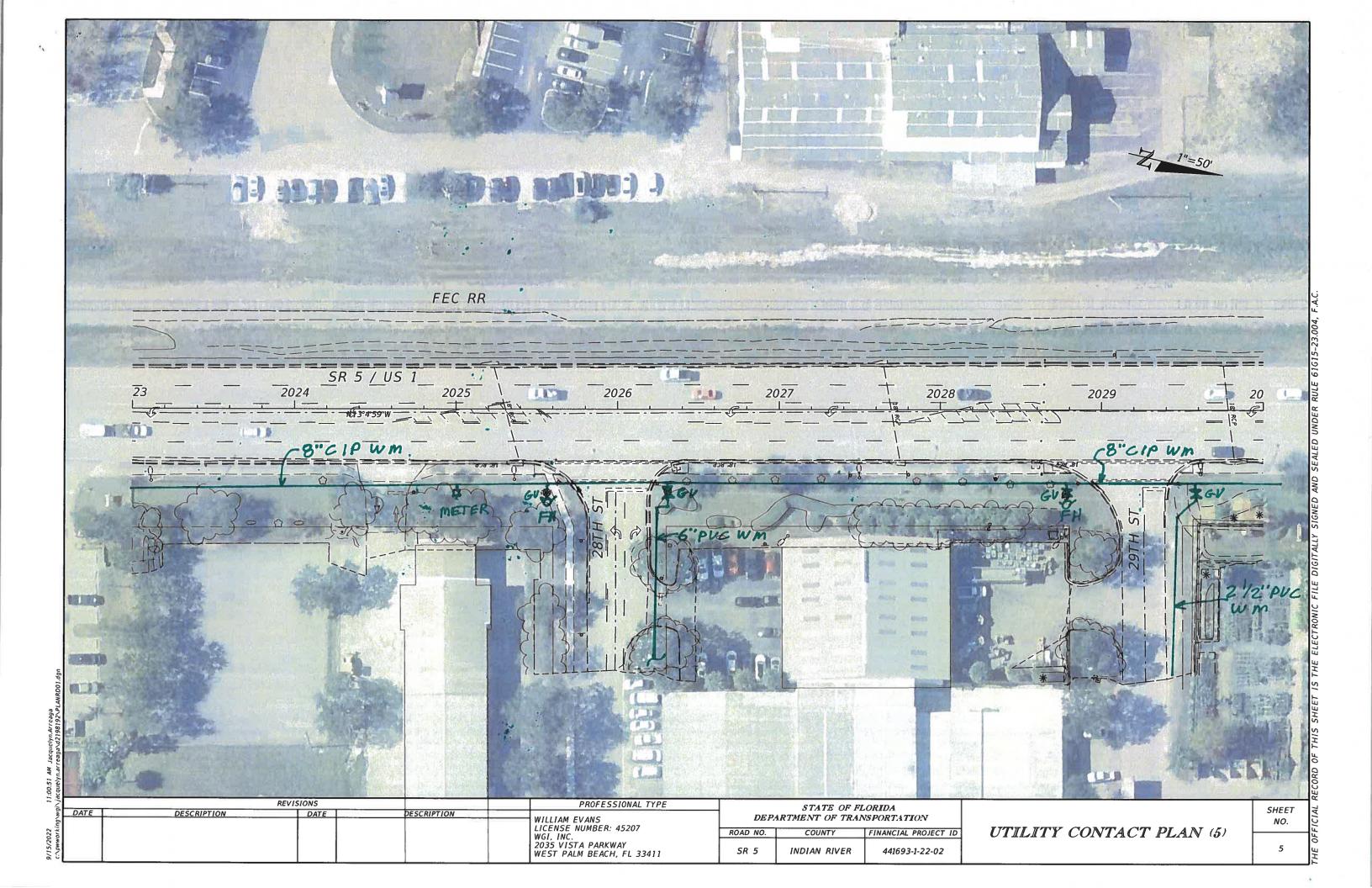


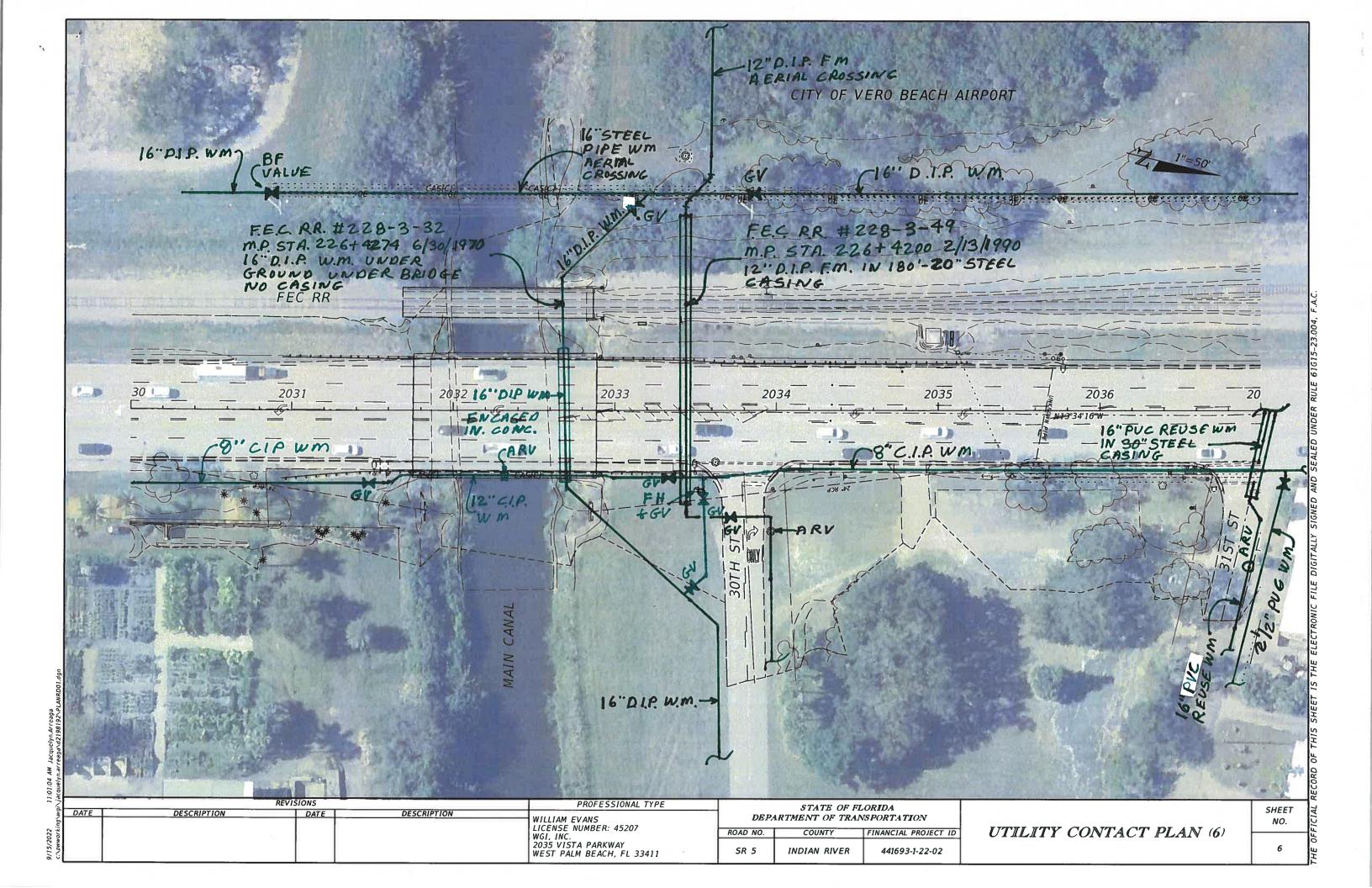


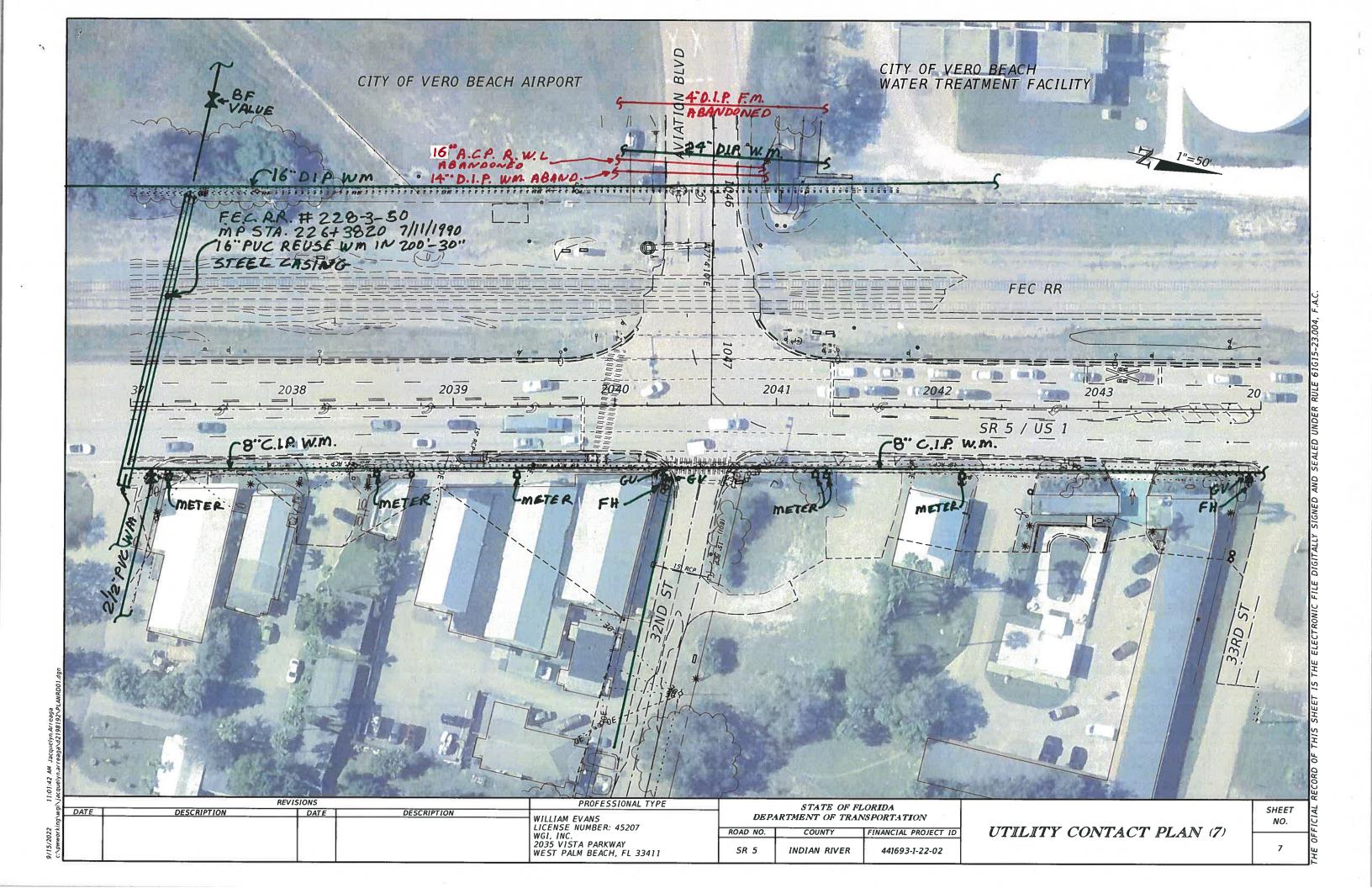
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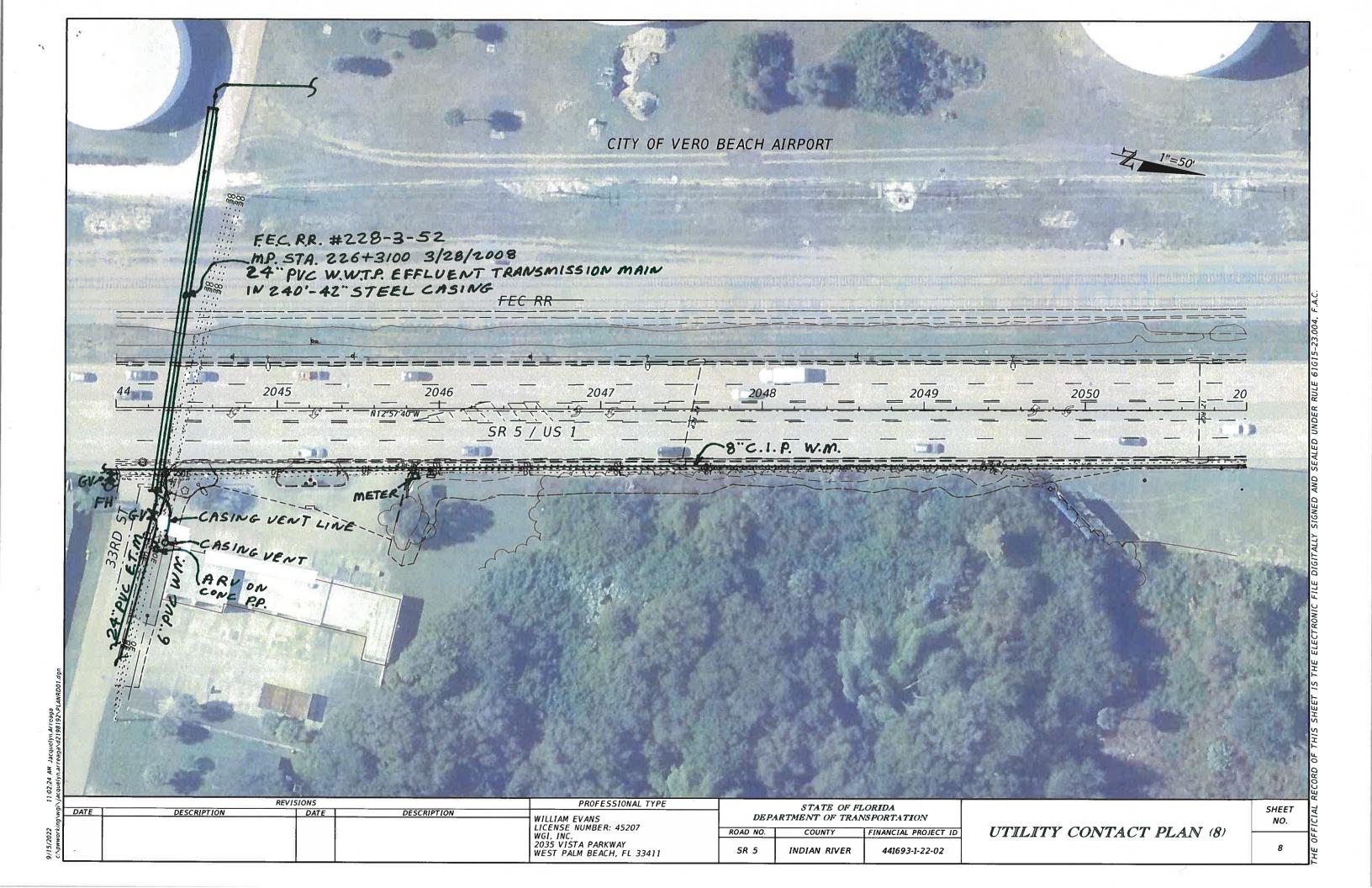


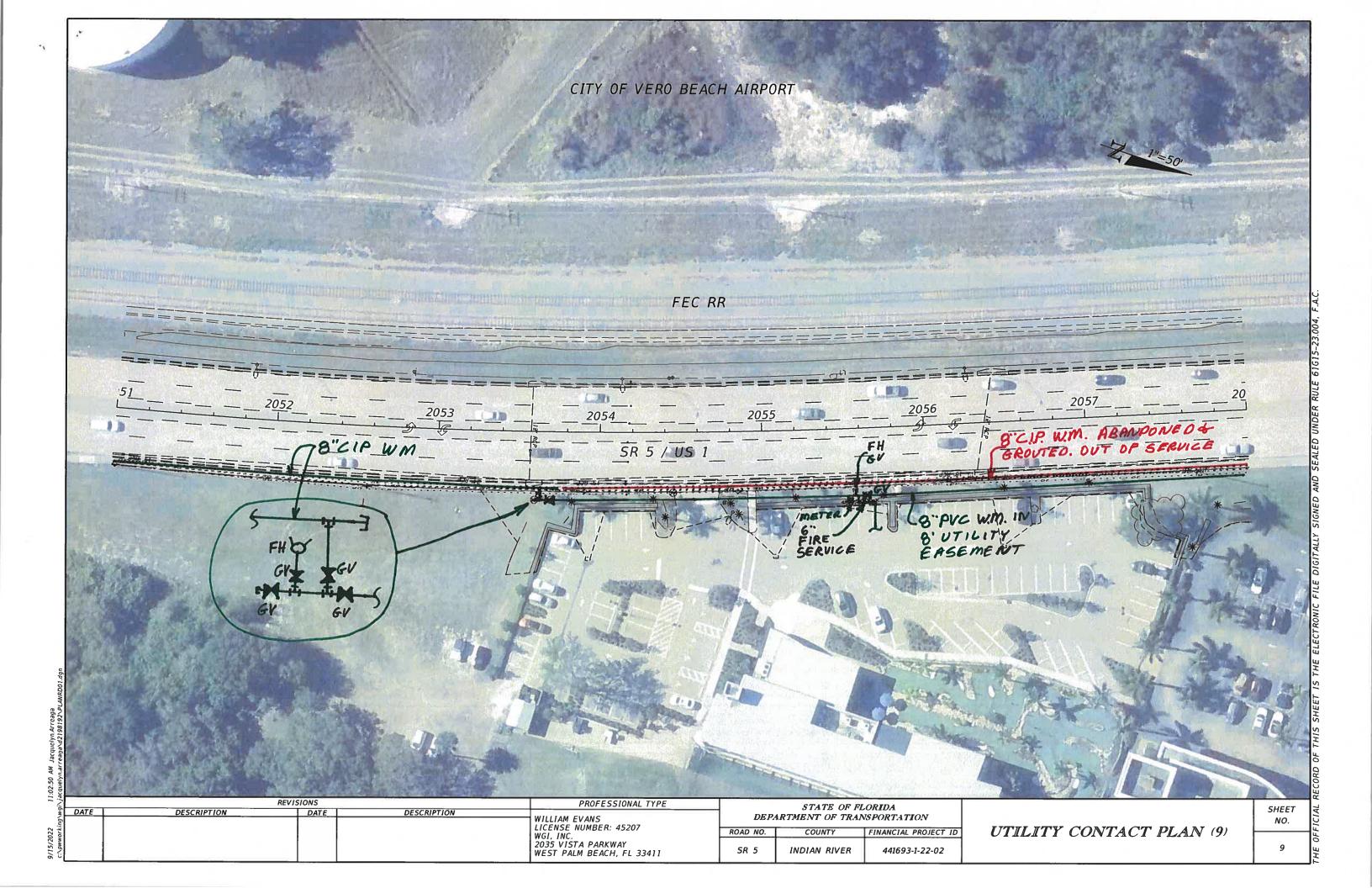


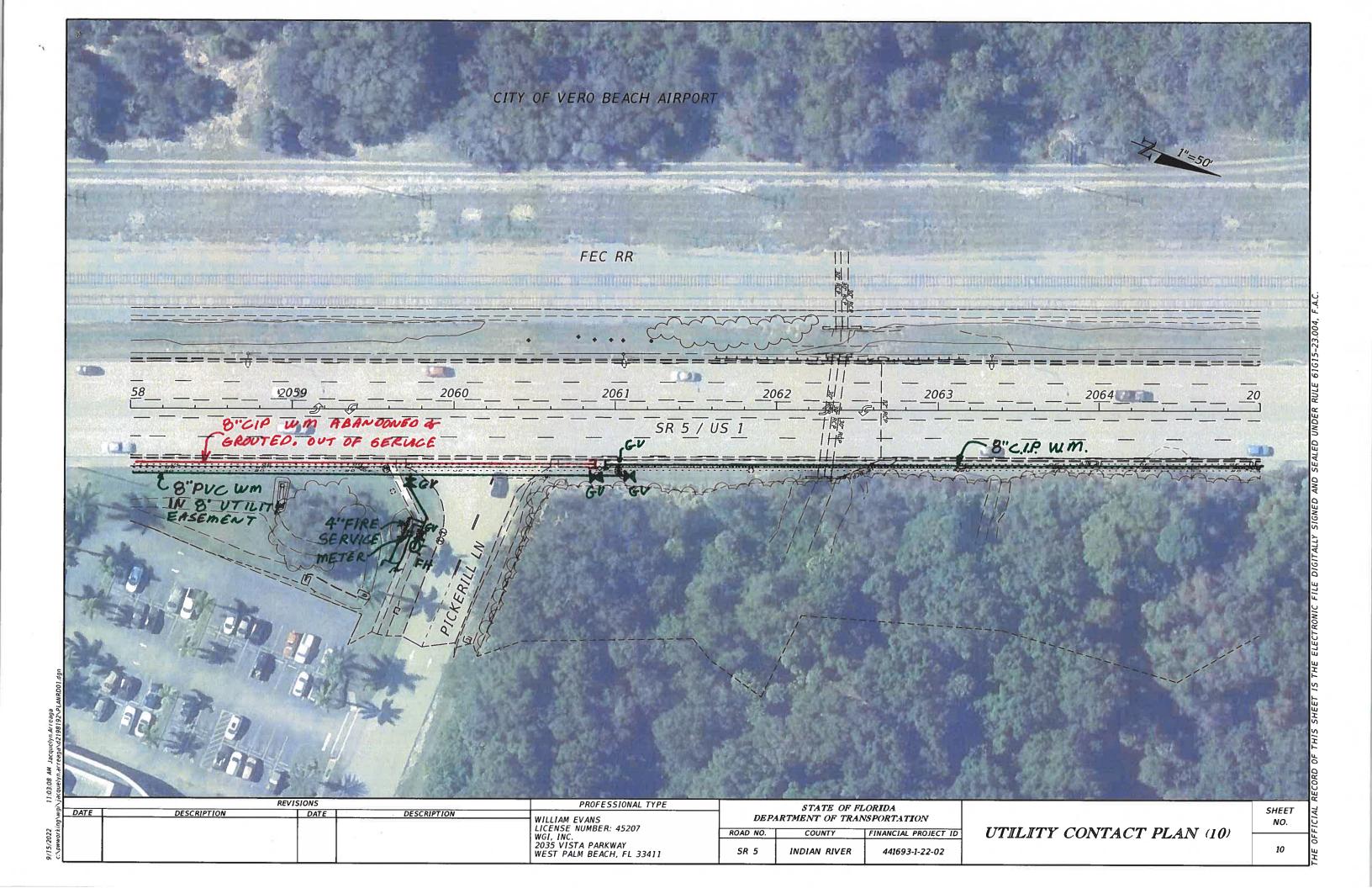


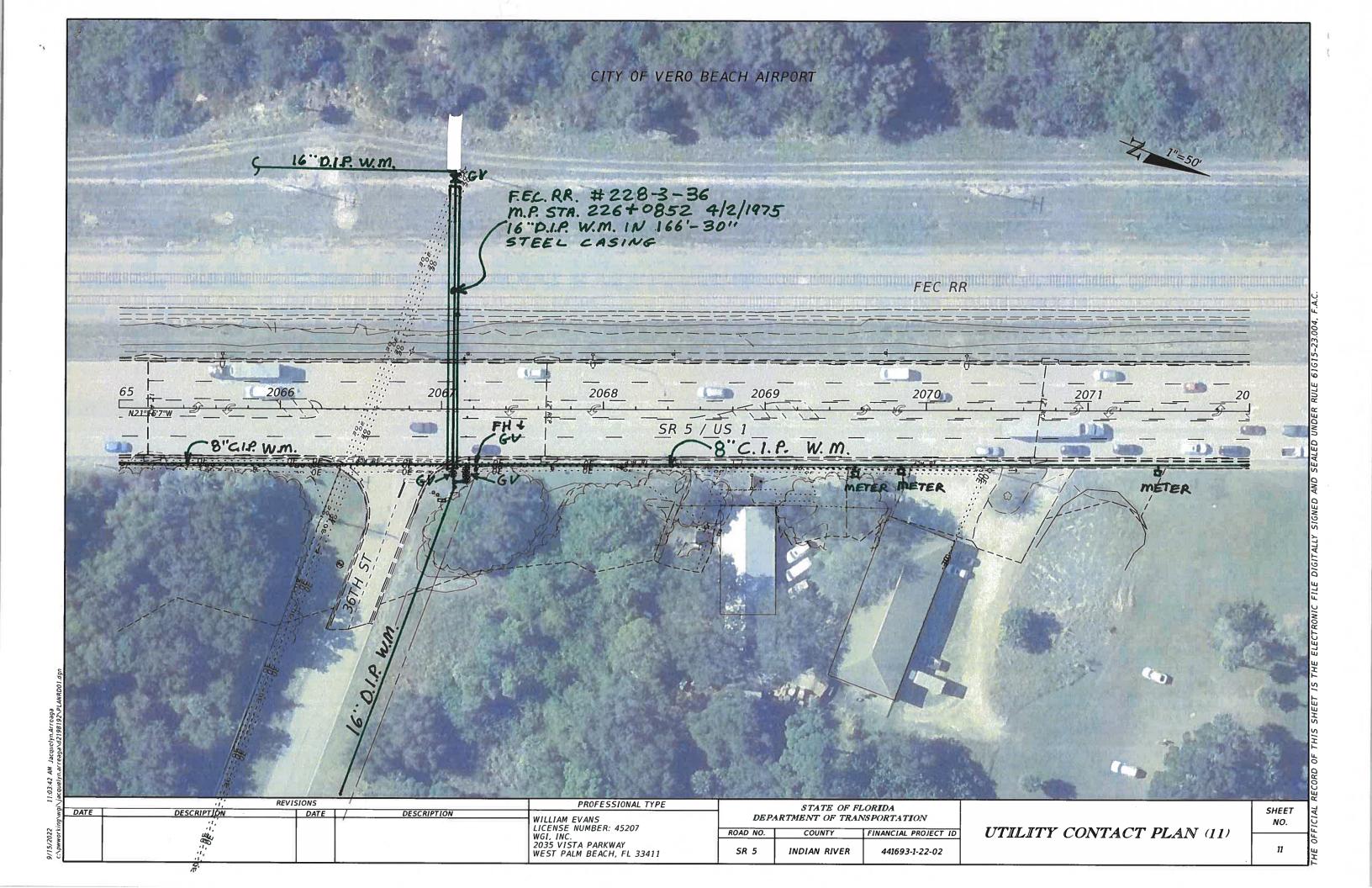


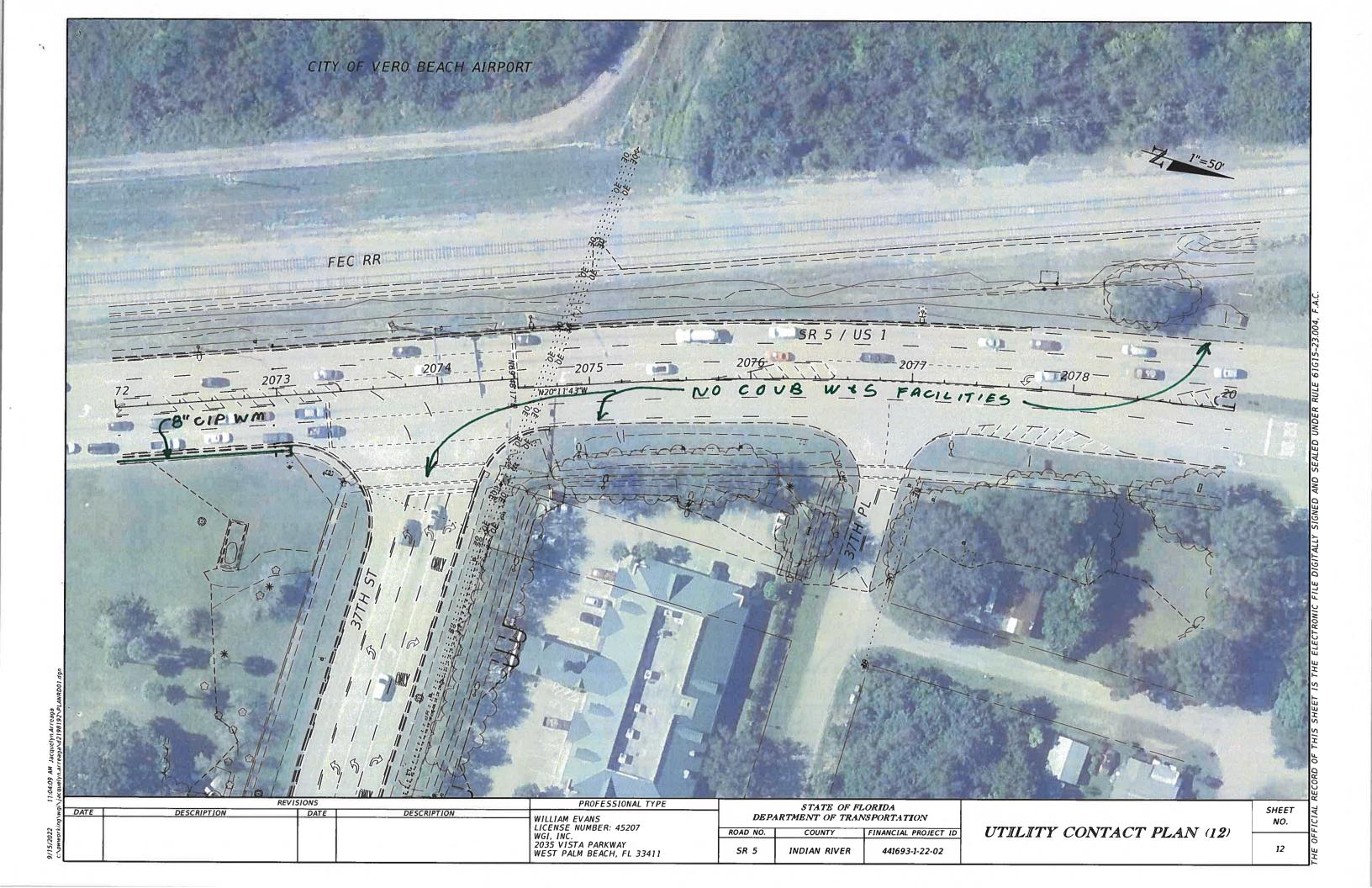


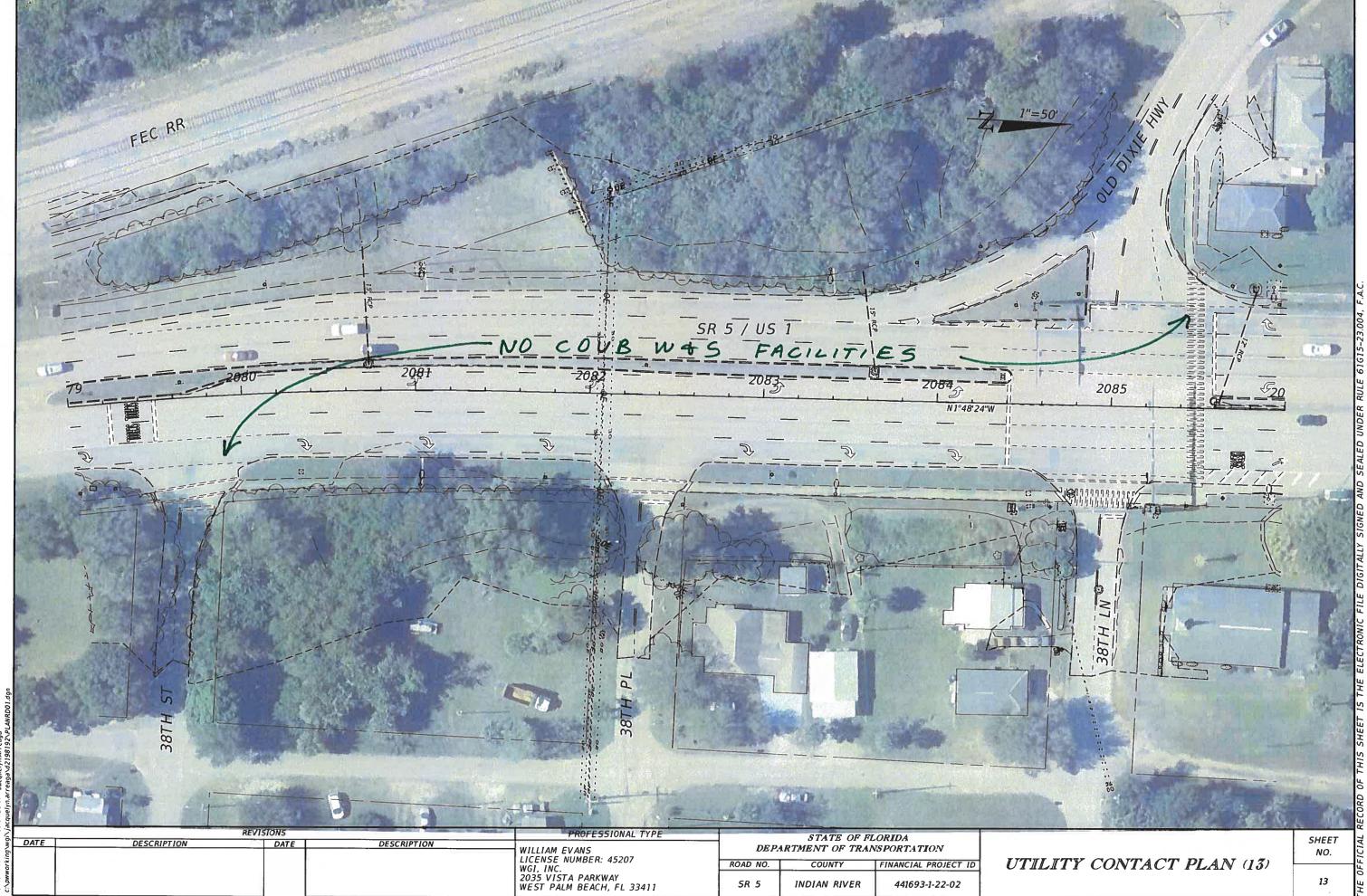


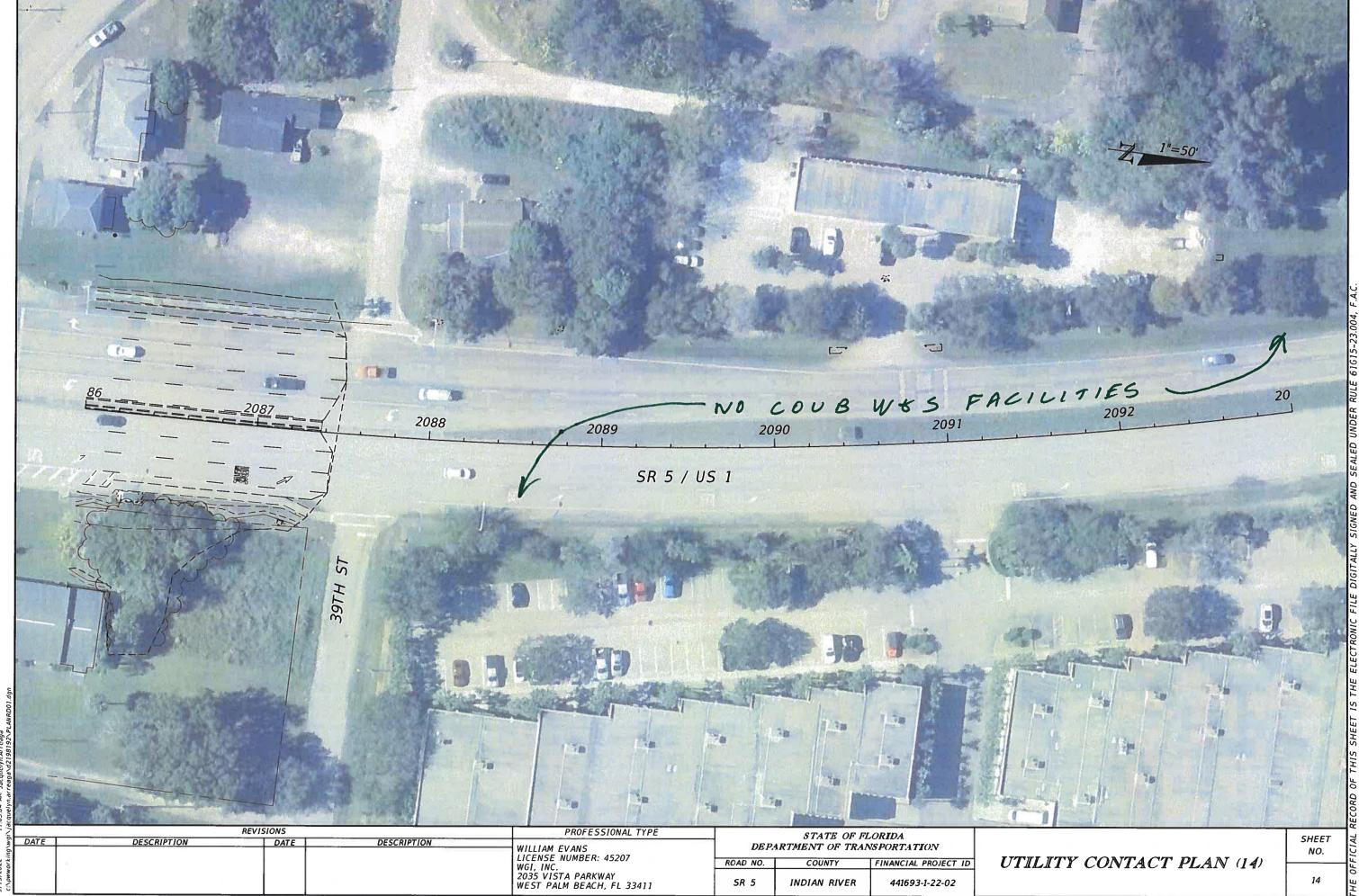


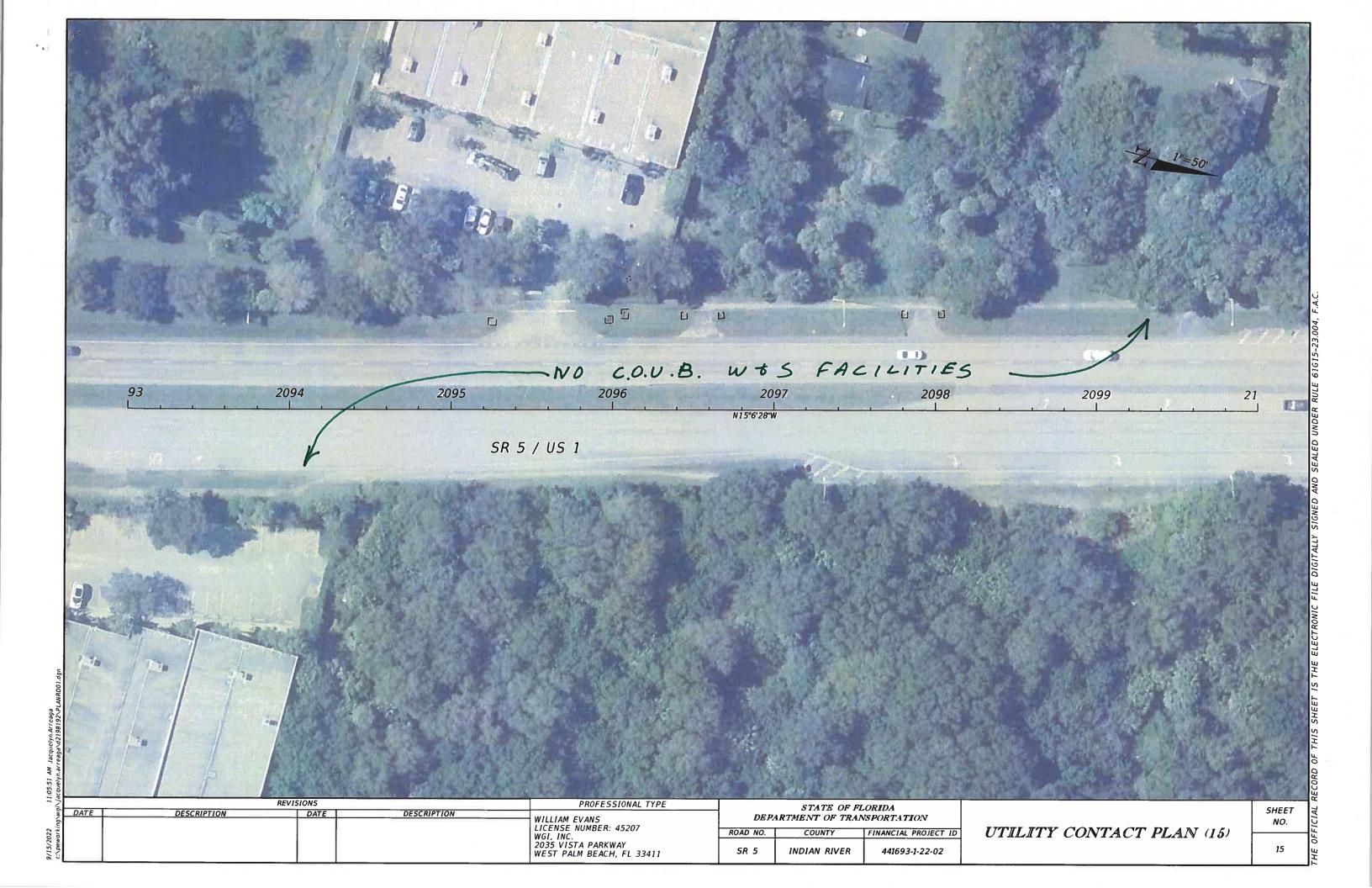


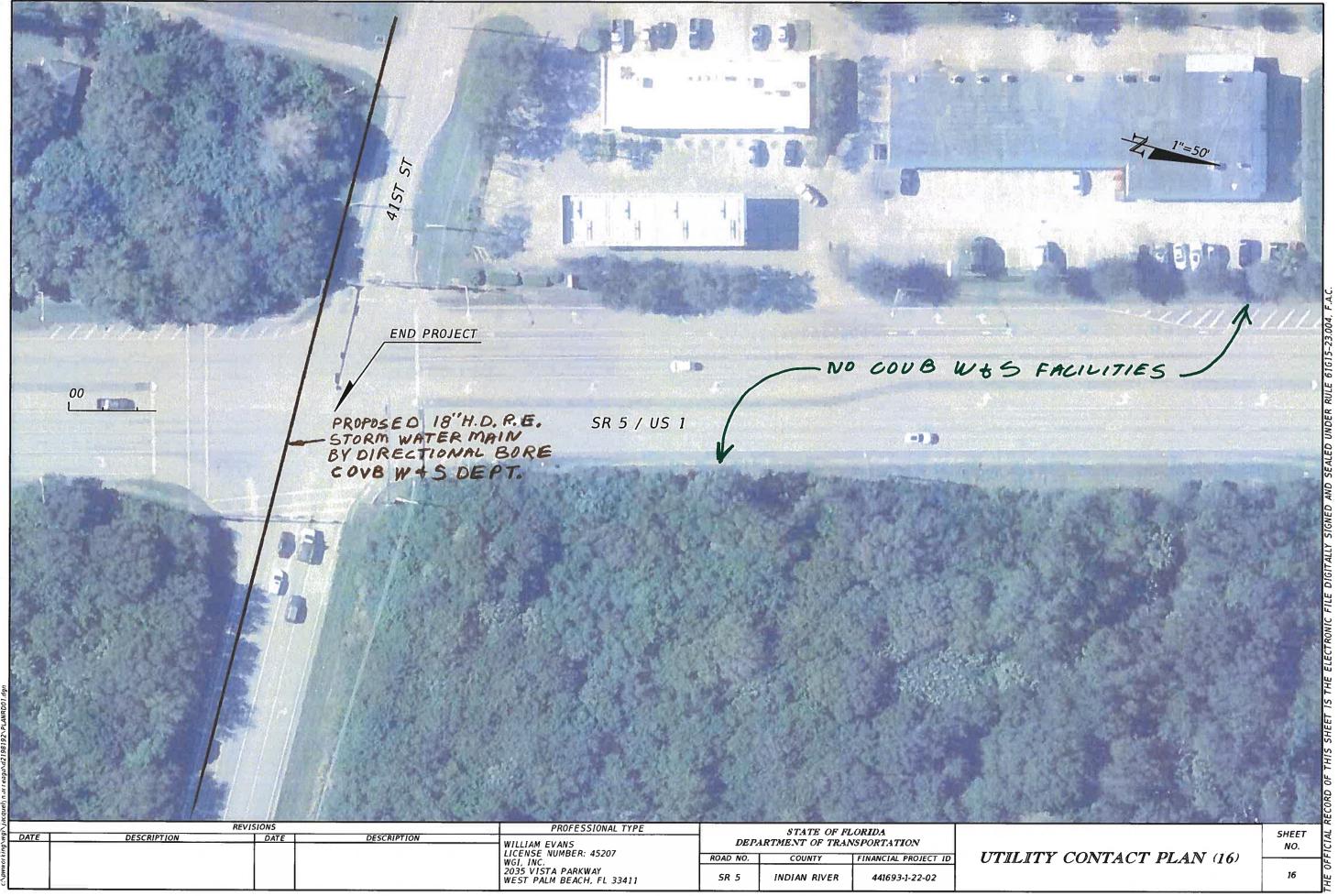






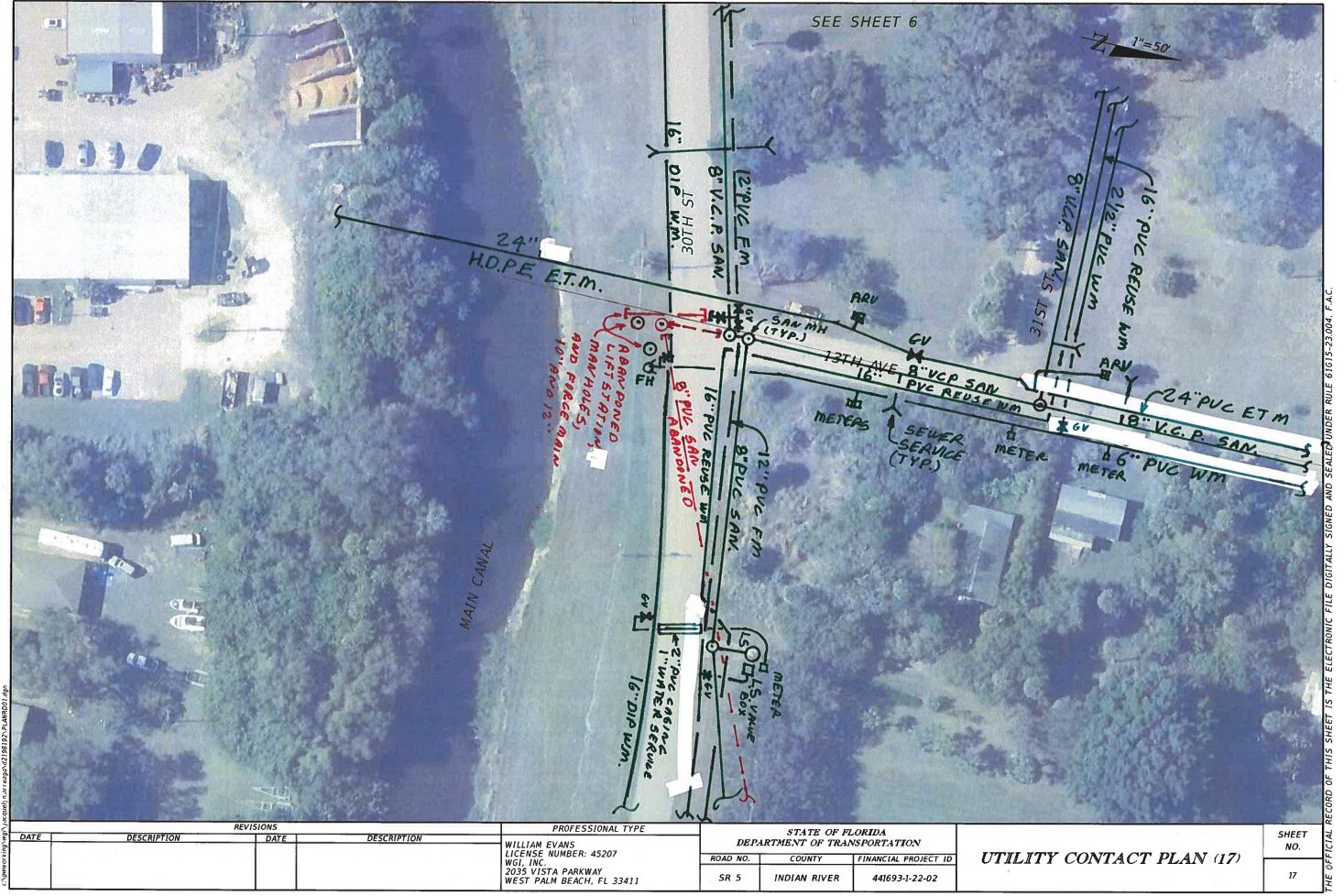






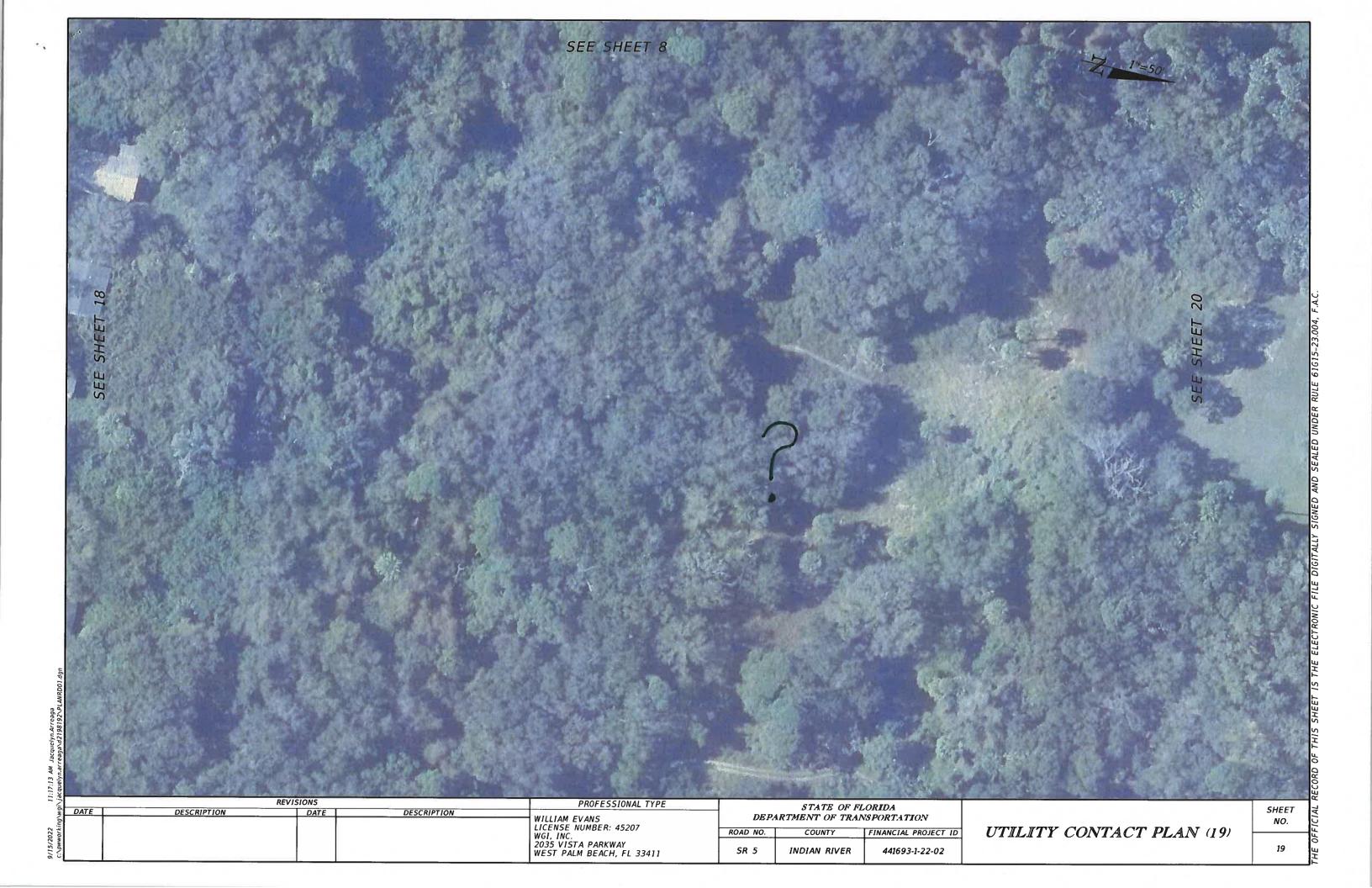
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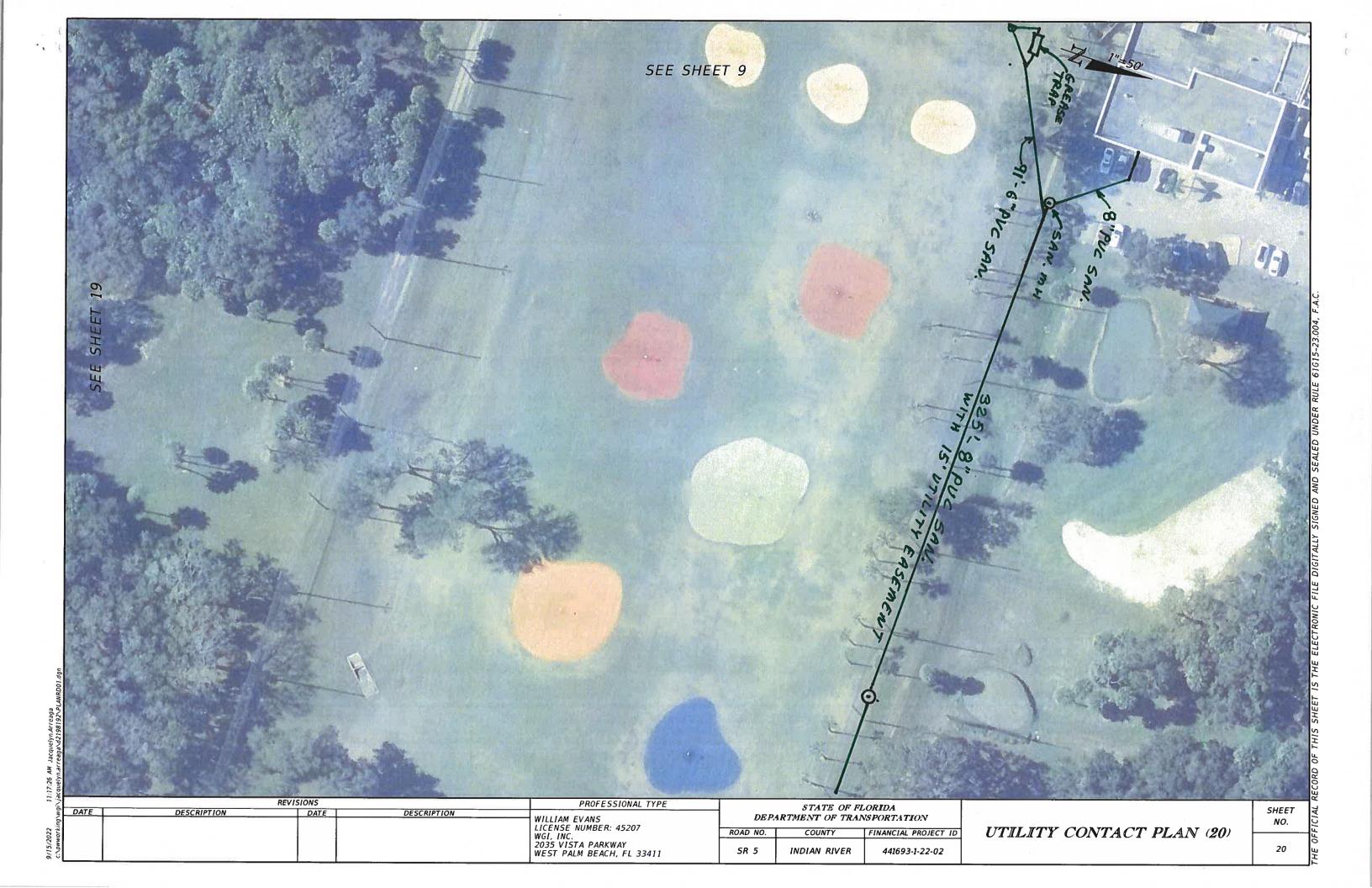
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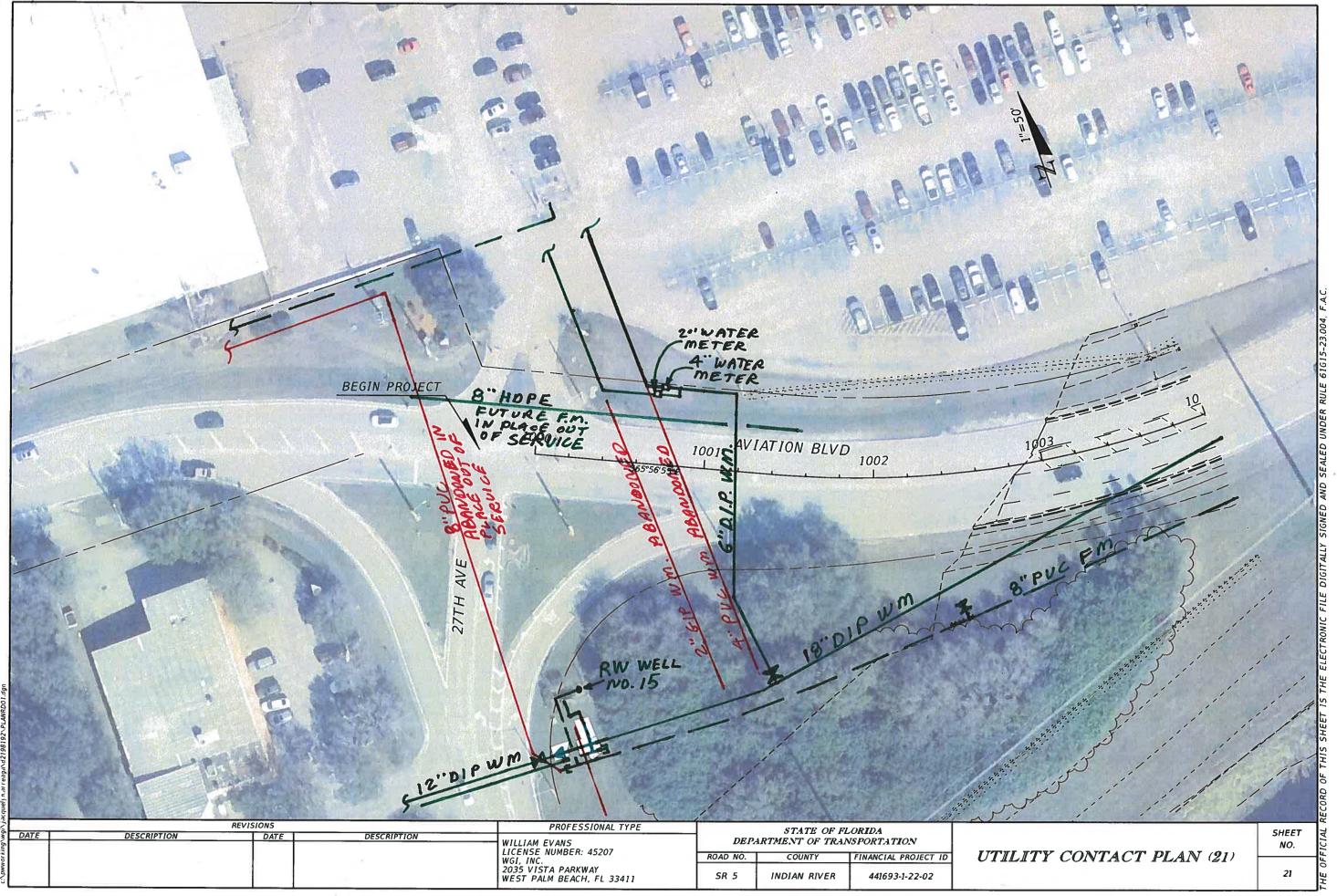


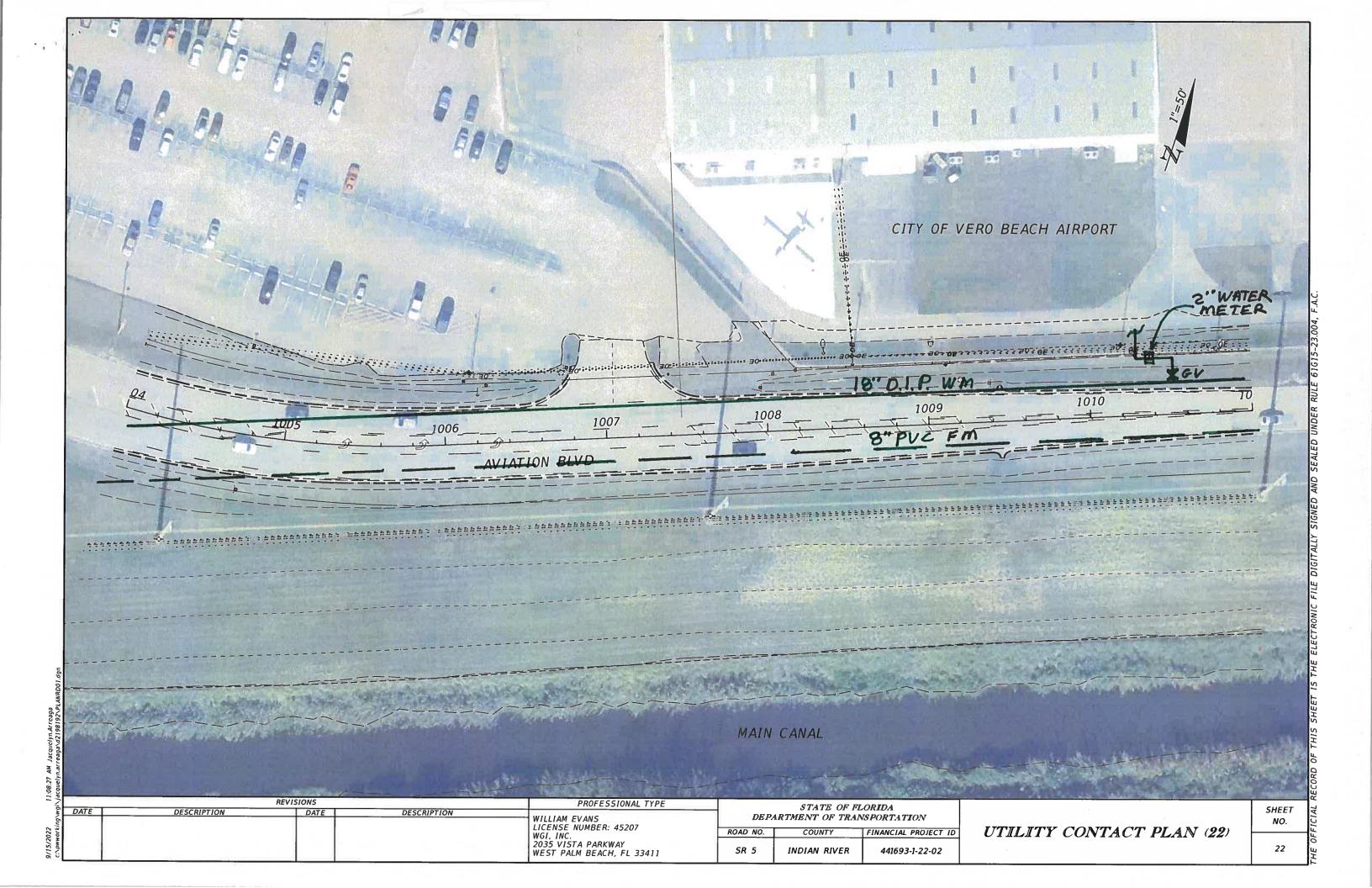


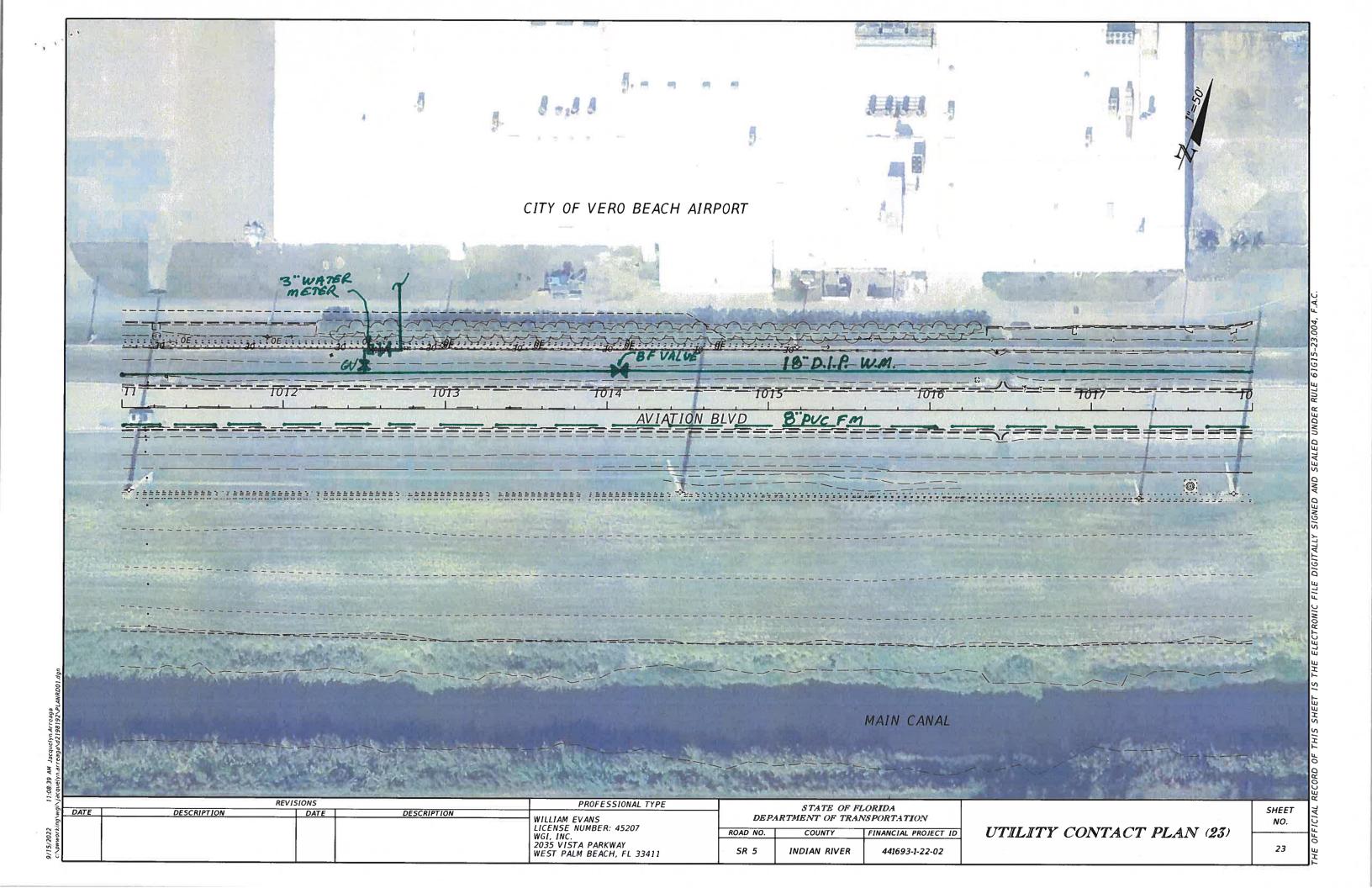
SR 5 INDIAN RIVER 441693-1-22-02

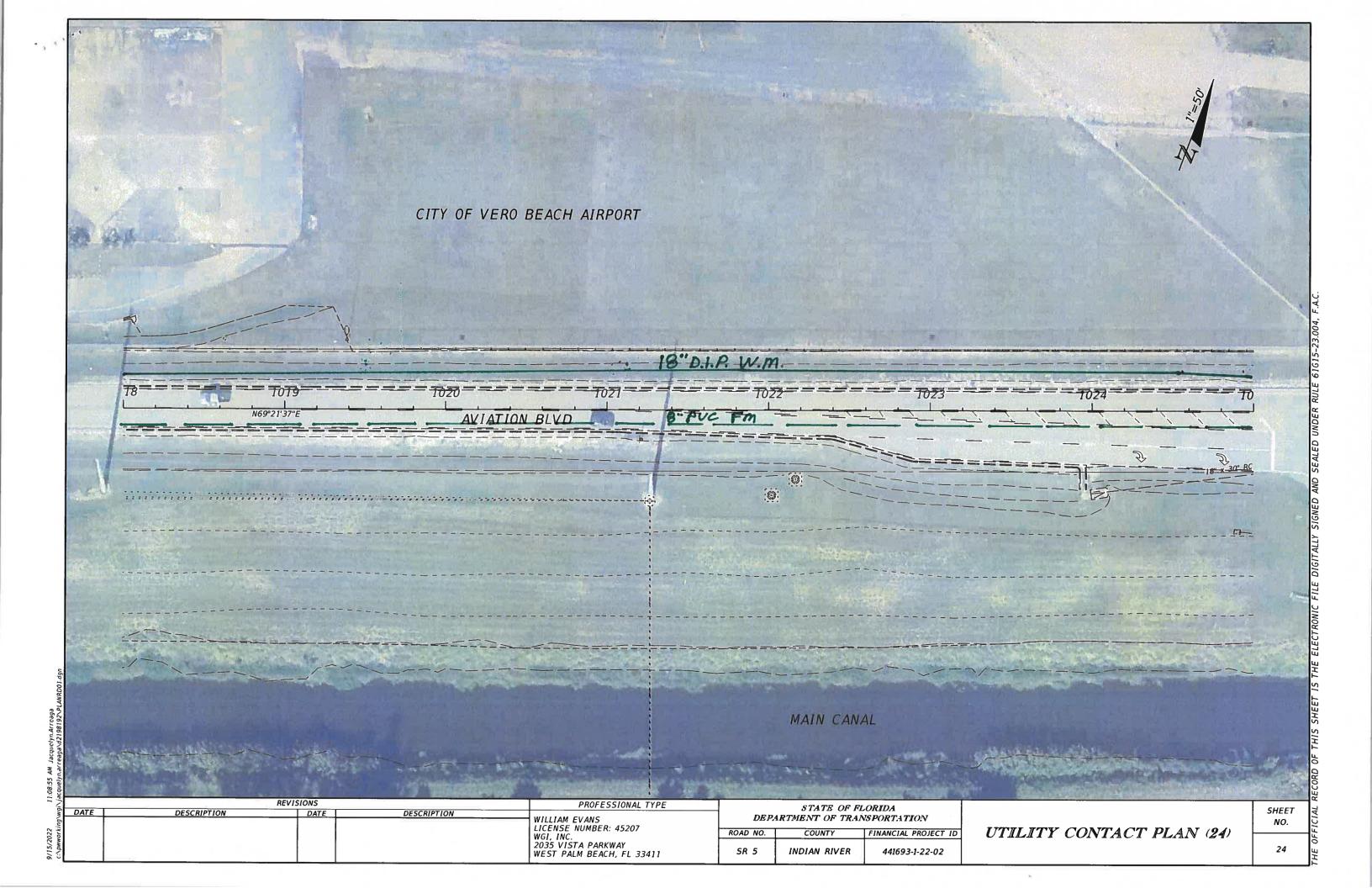


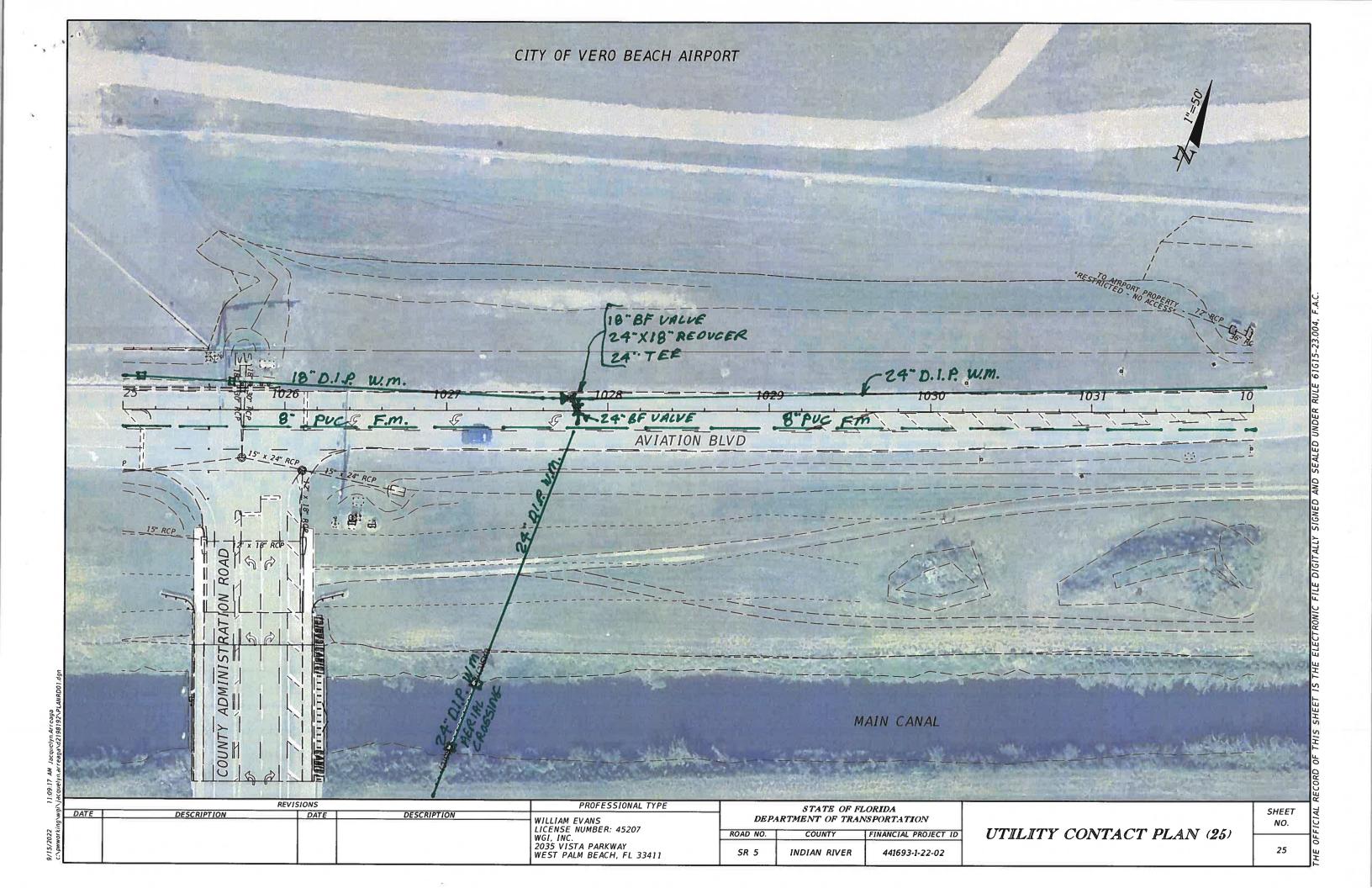


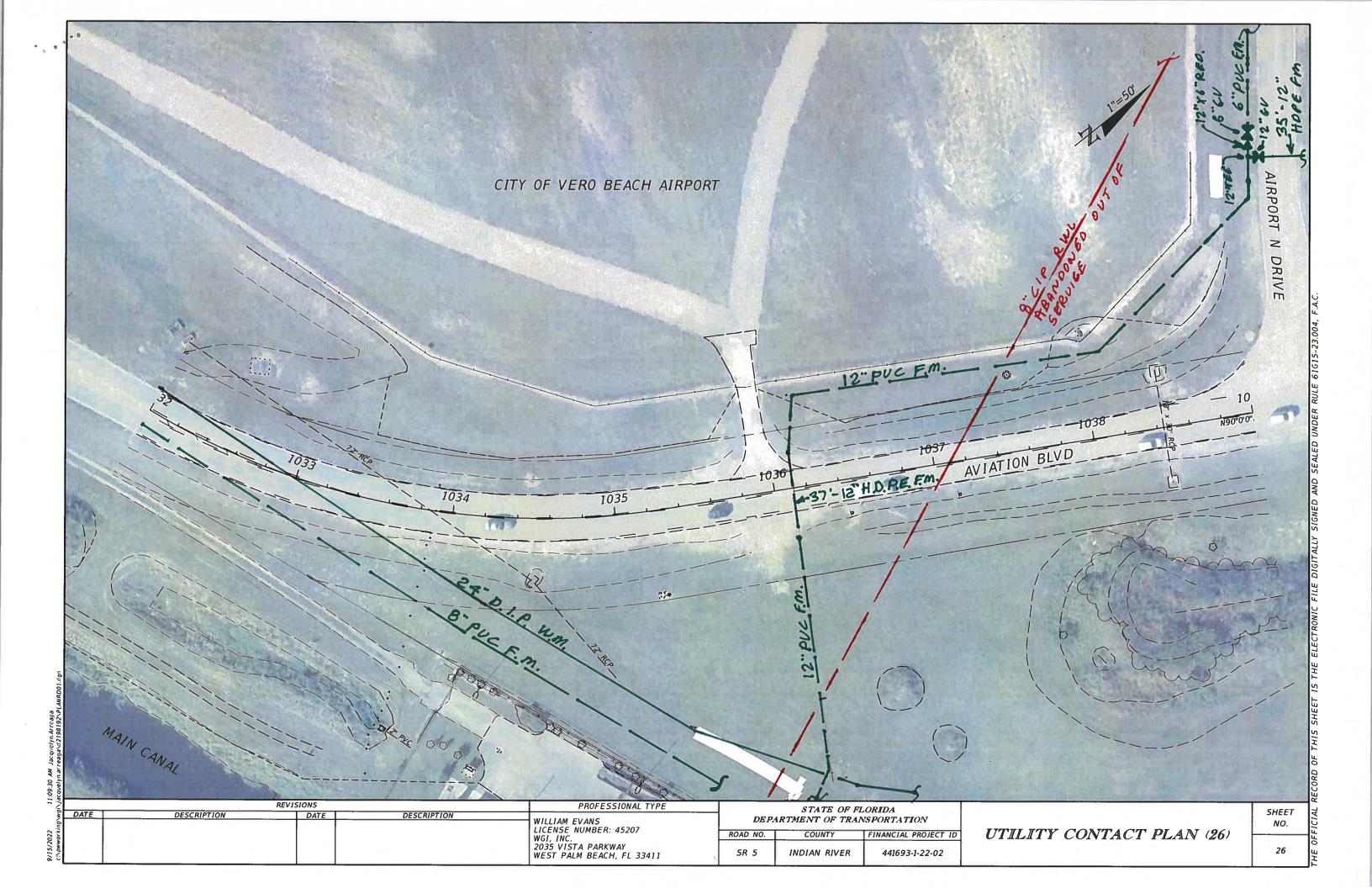


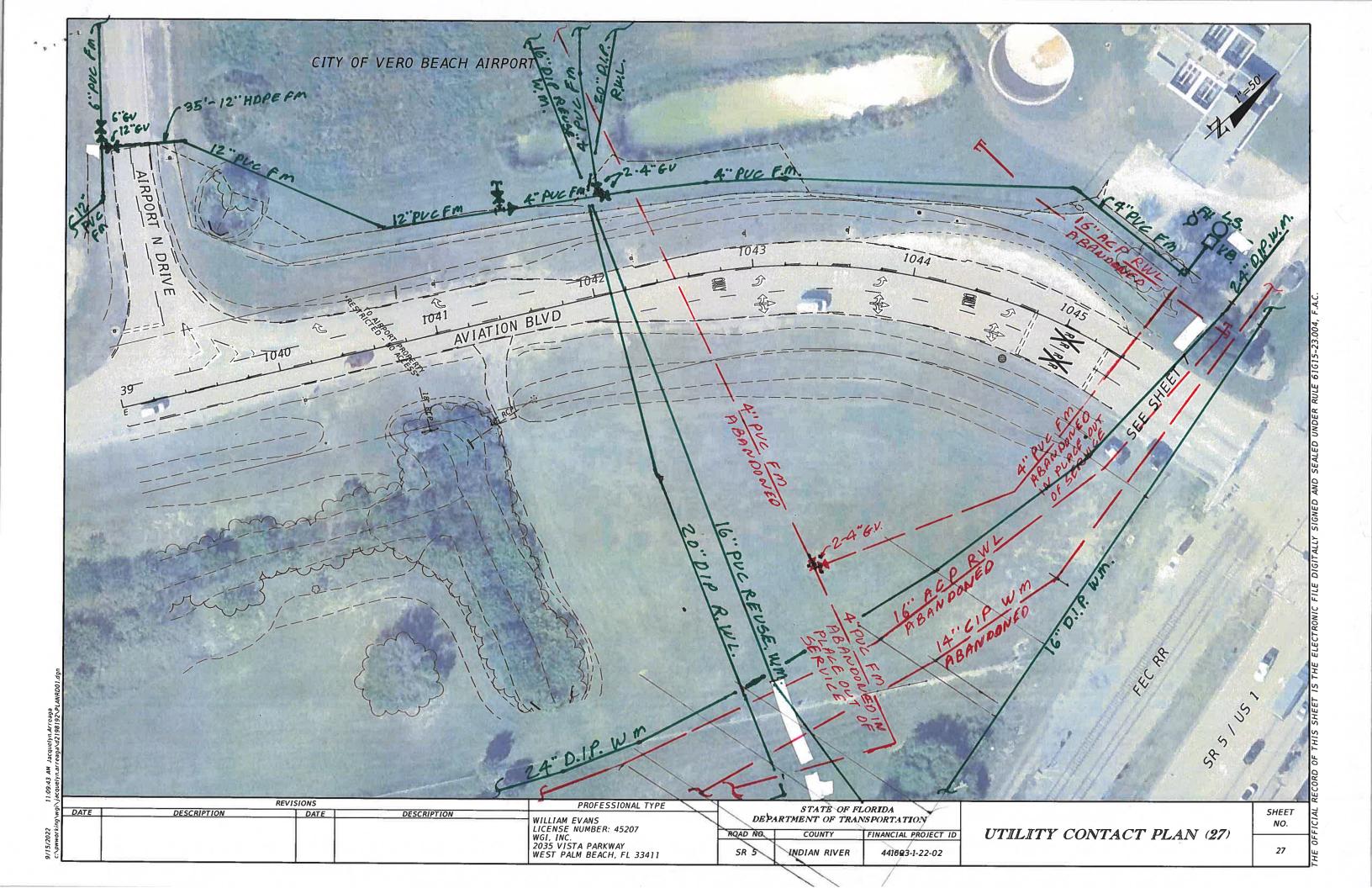








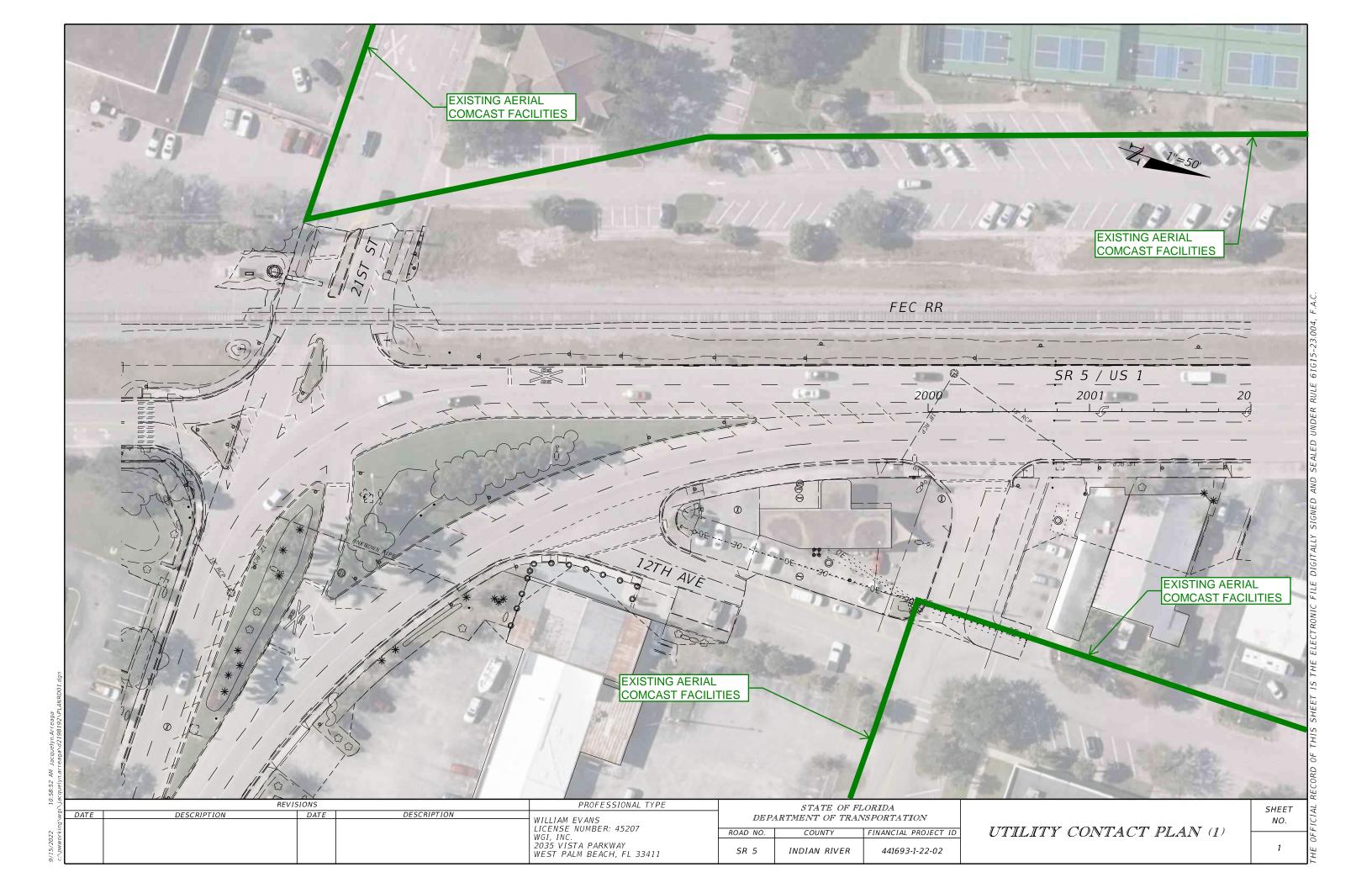


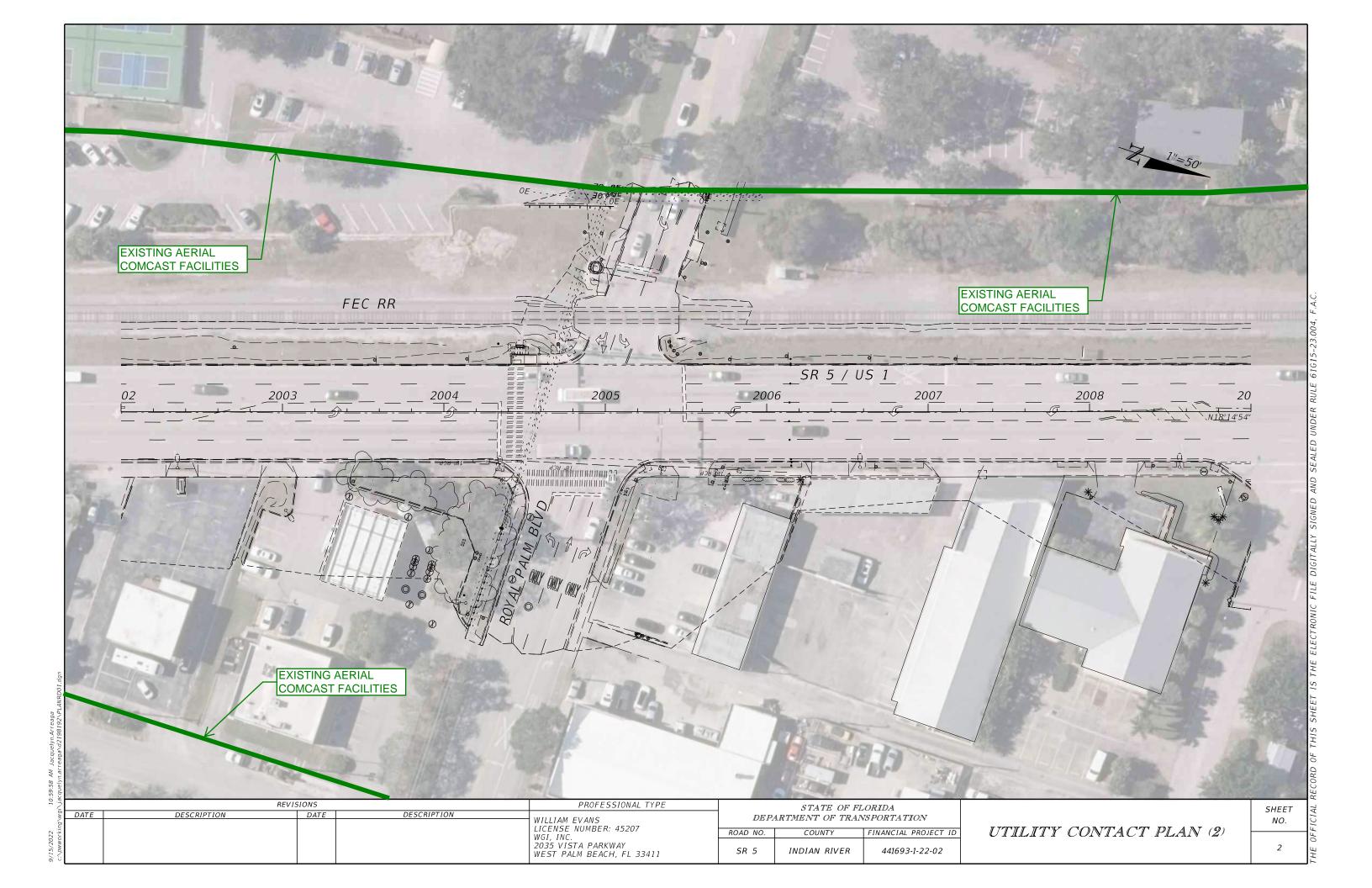


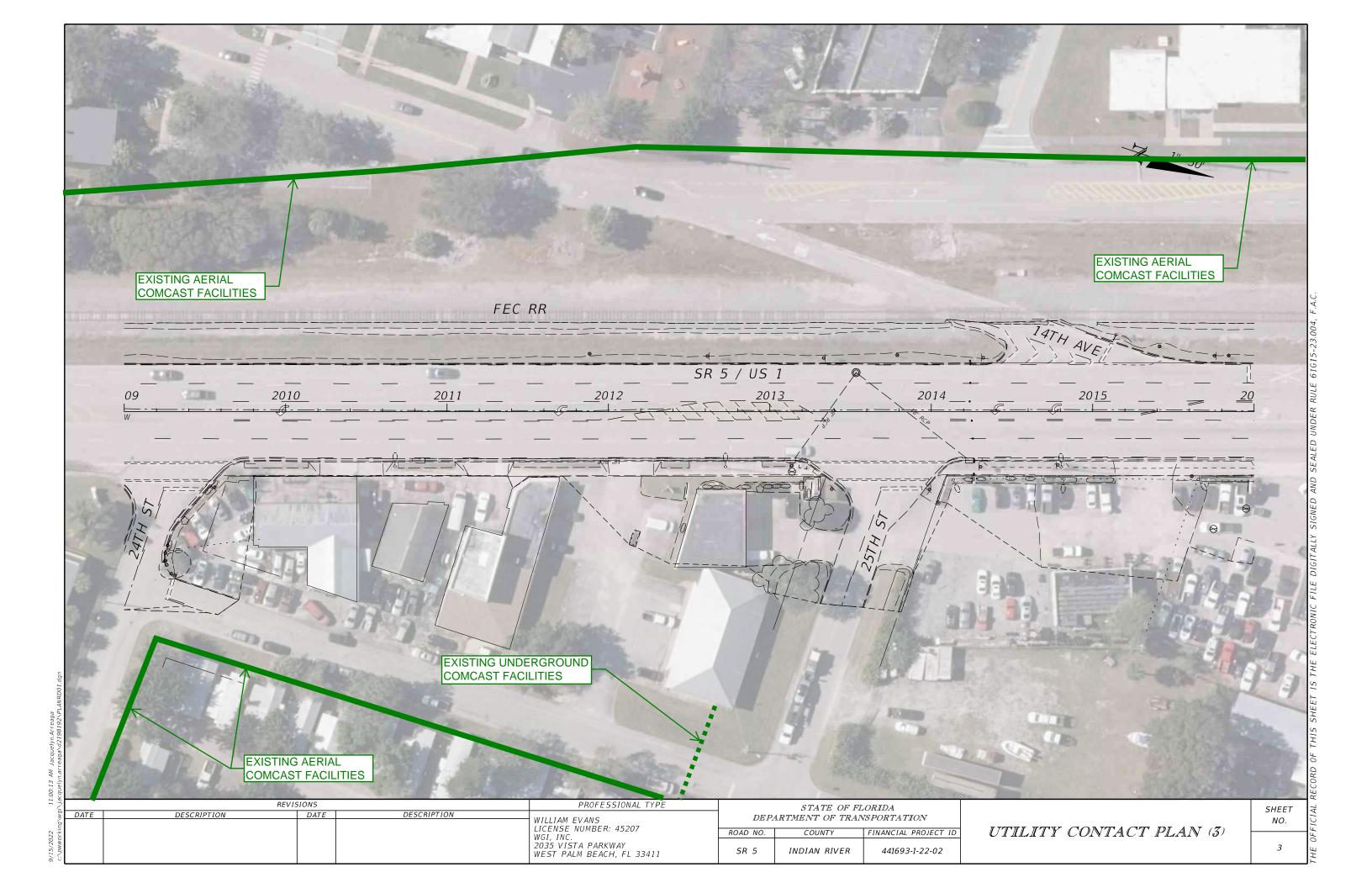
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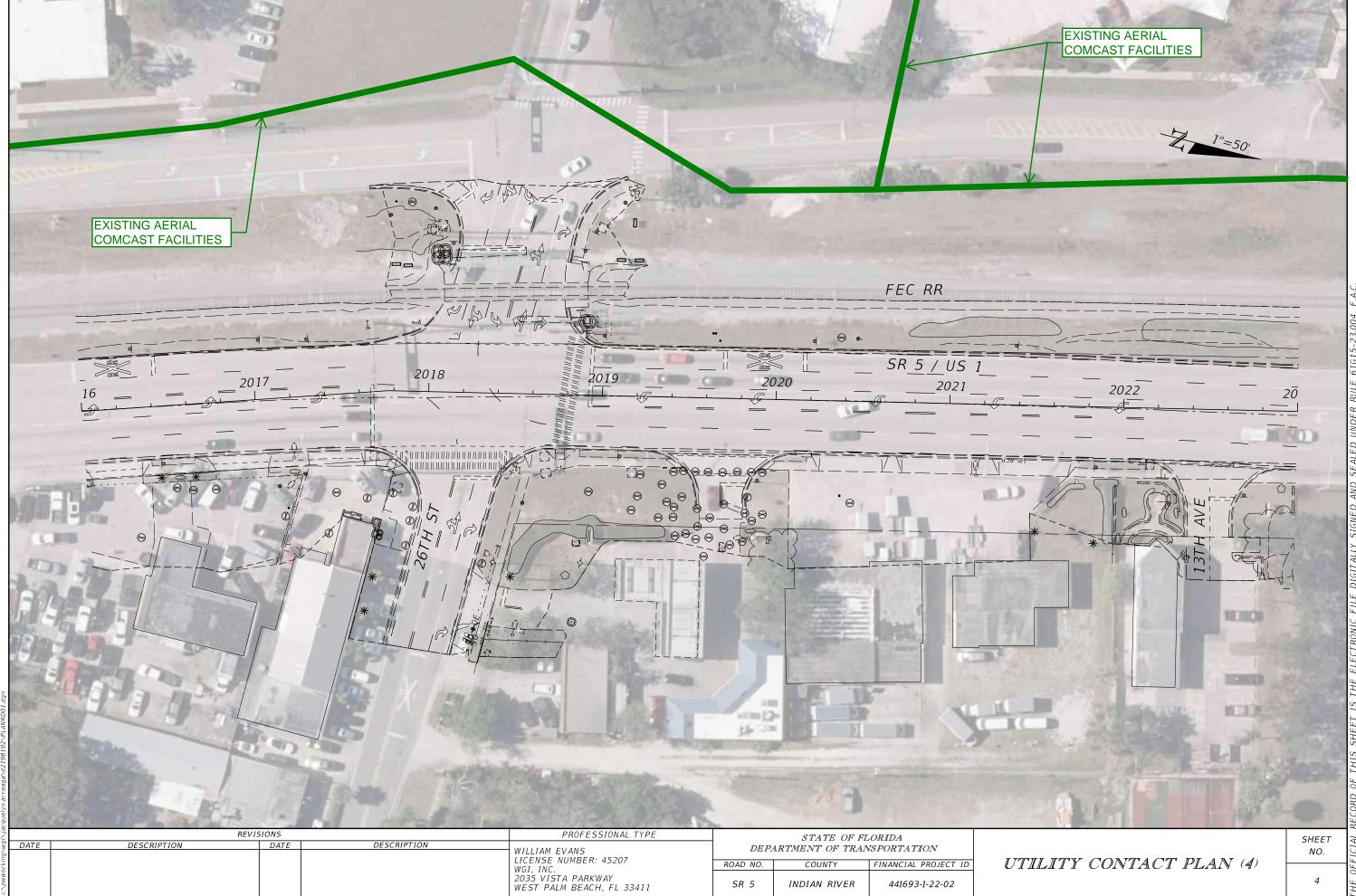
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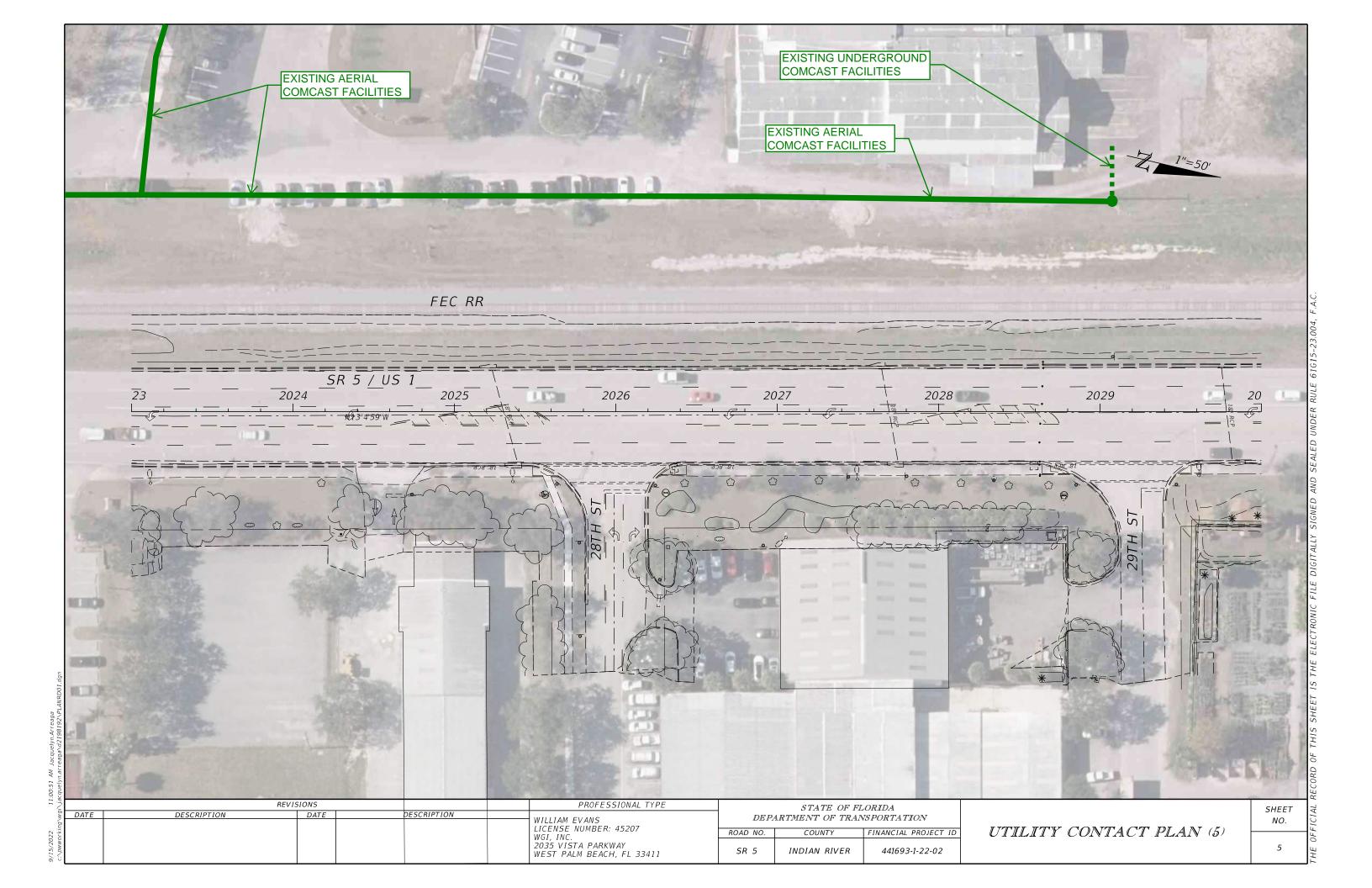
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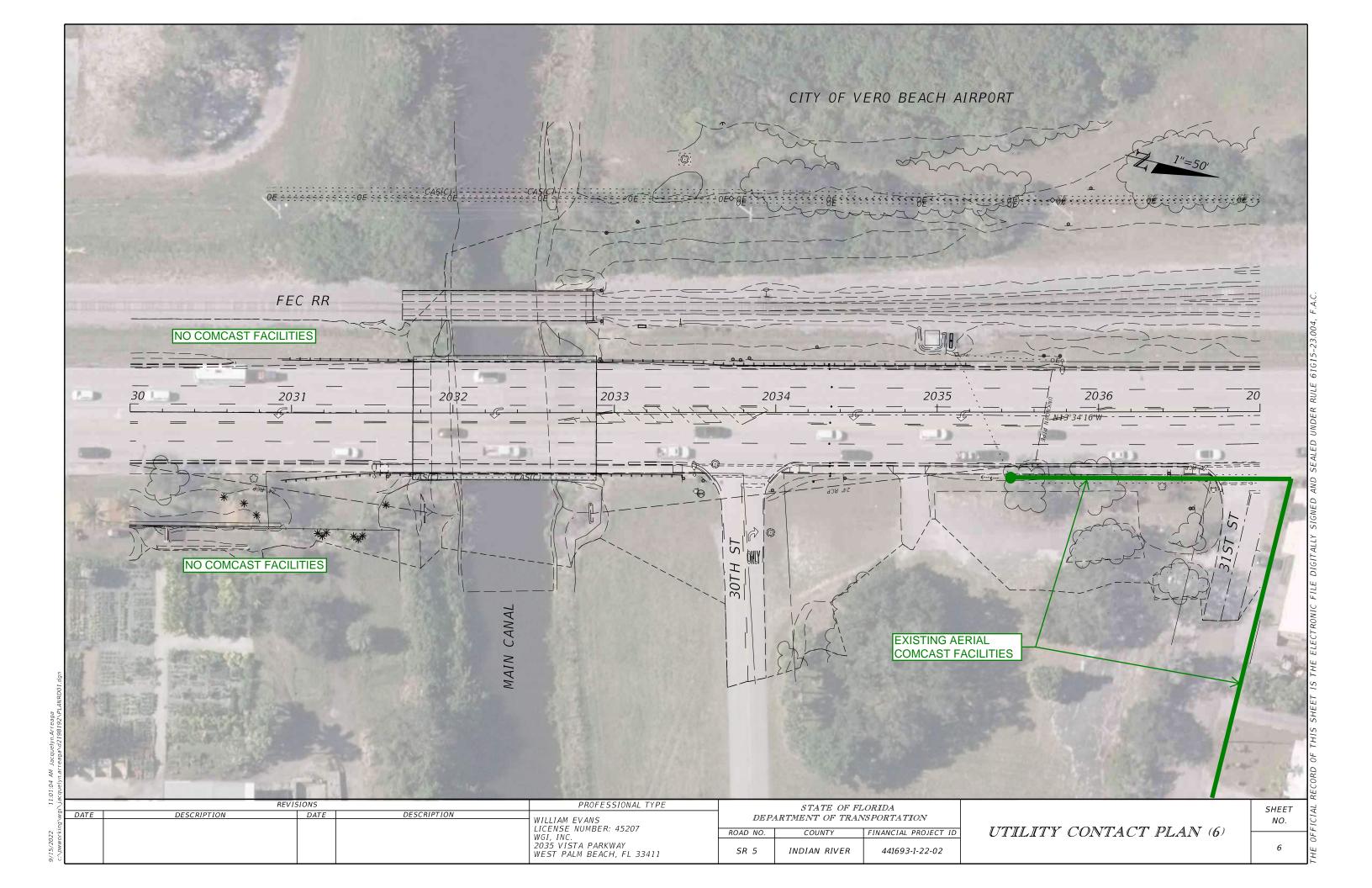


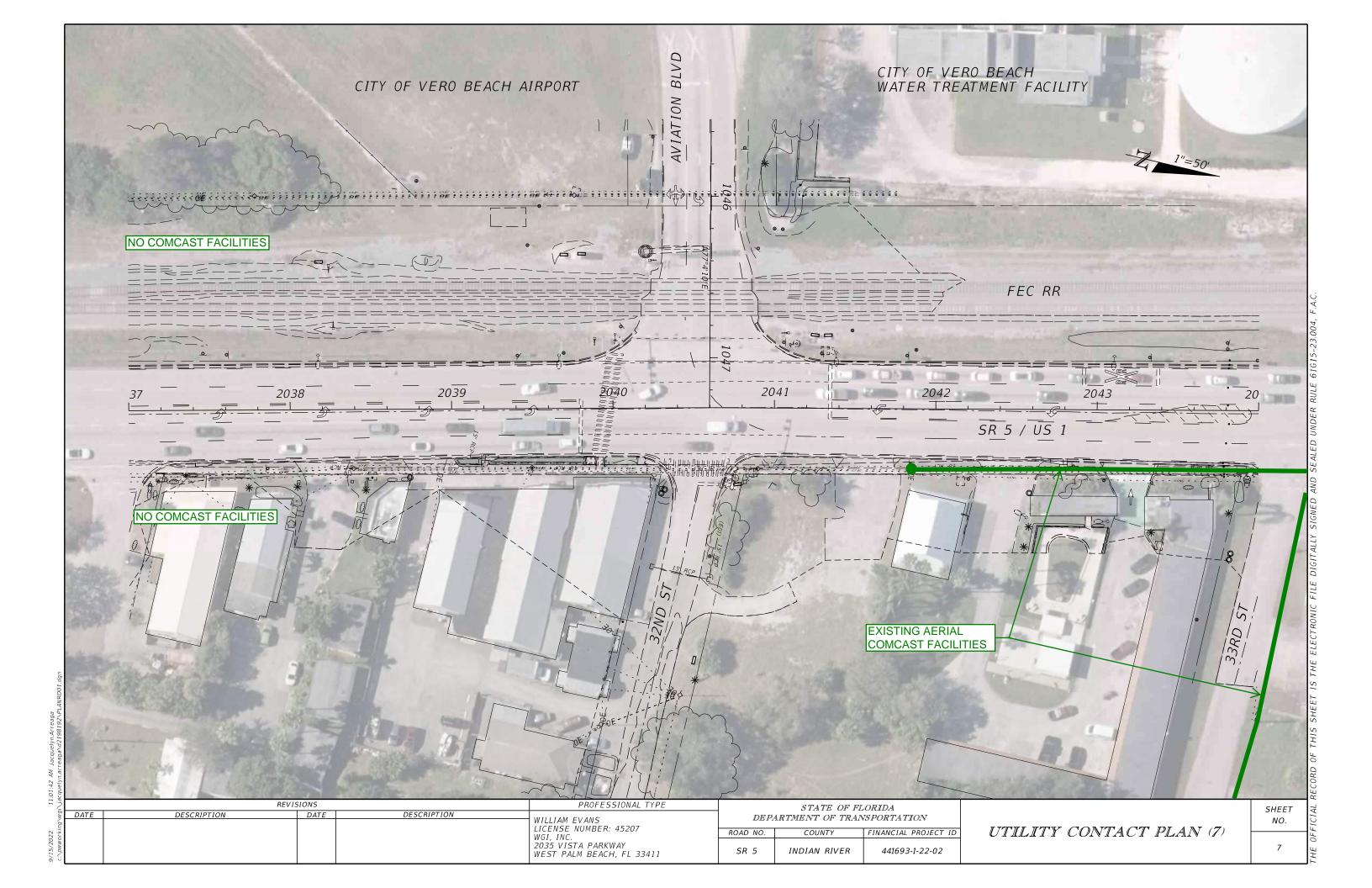


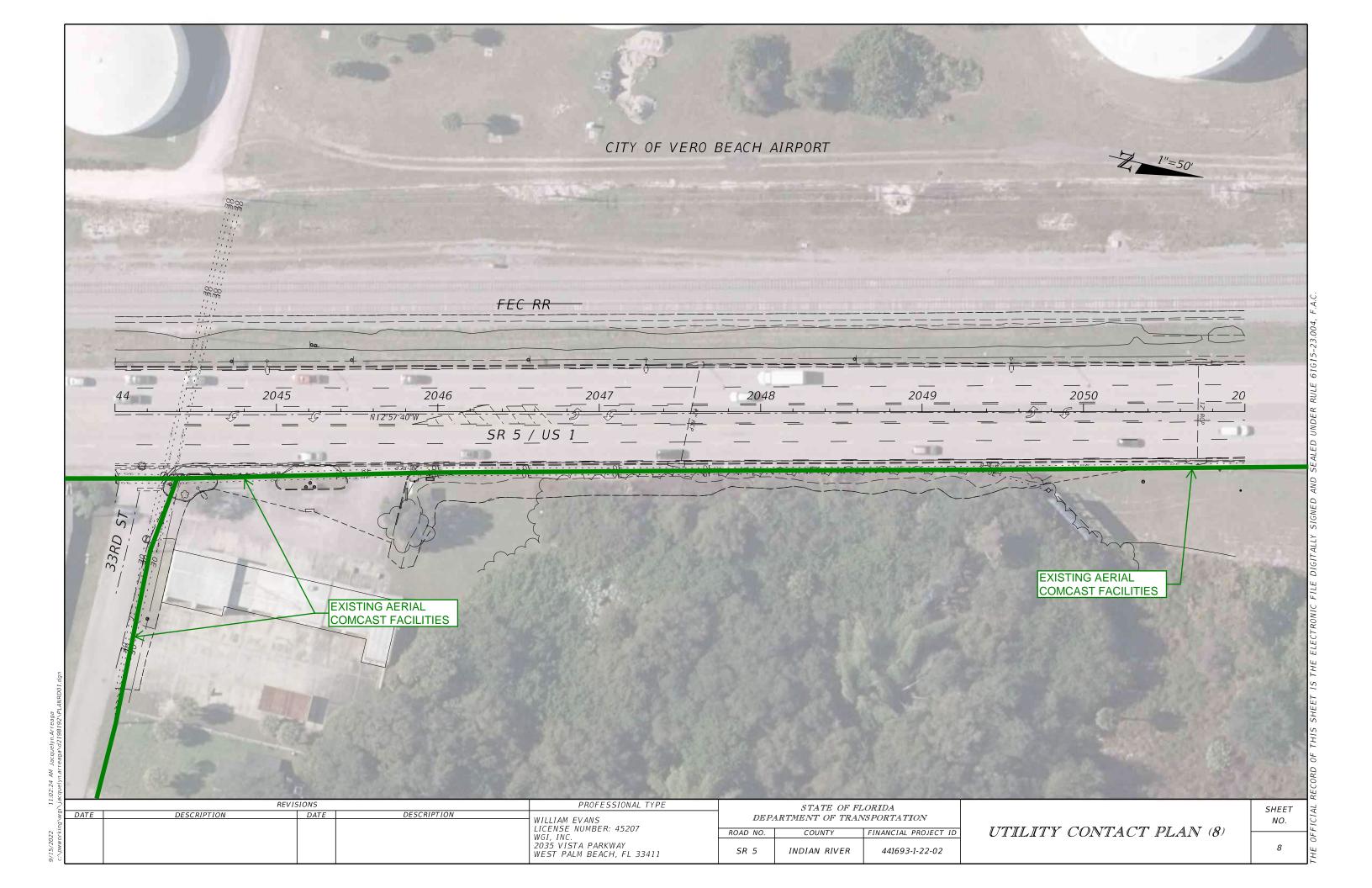


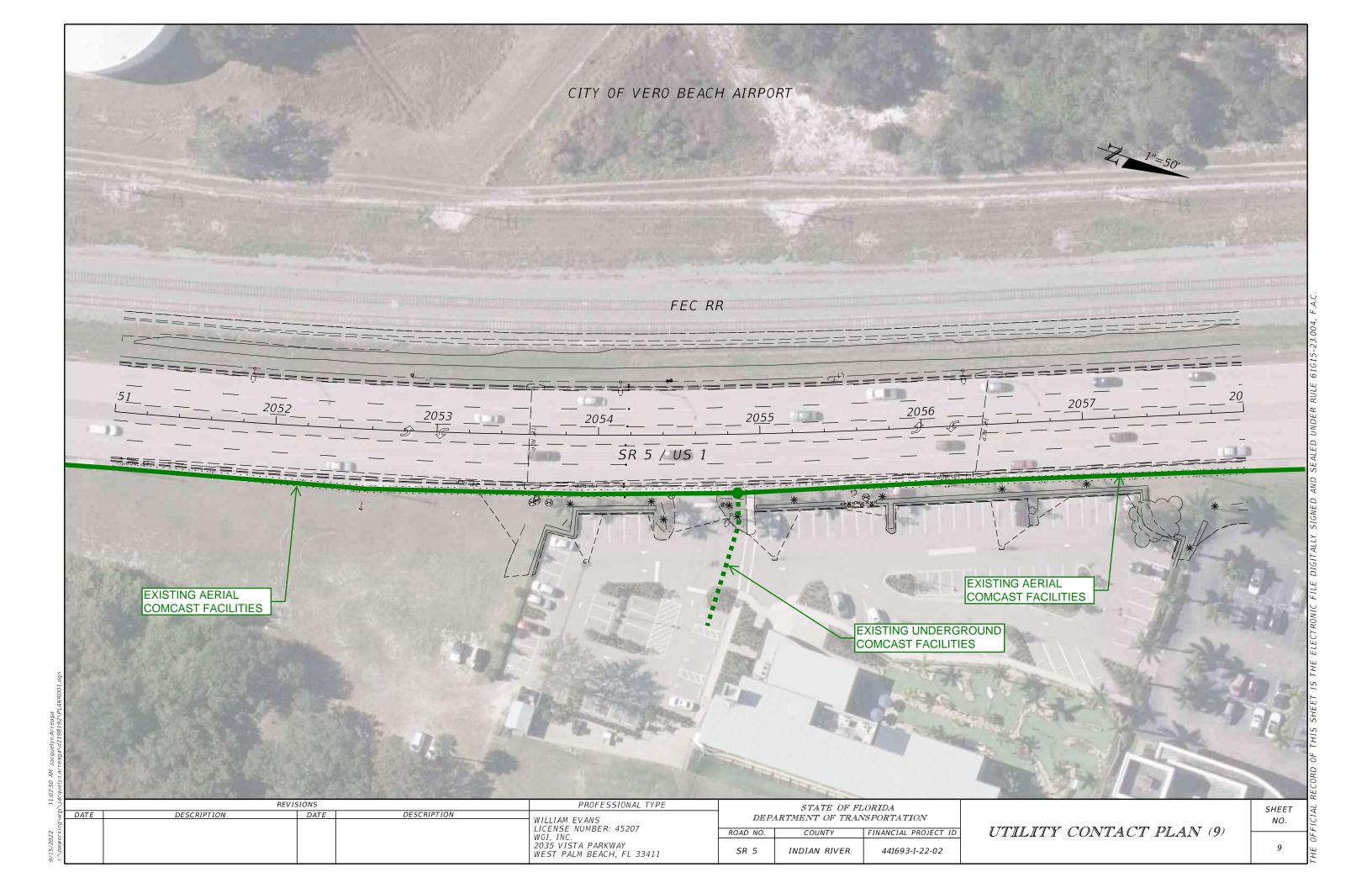


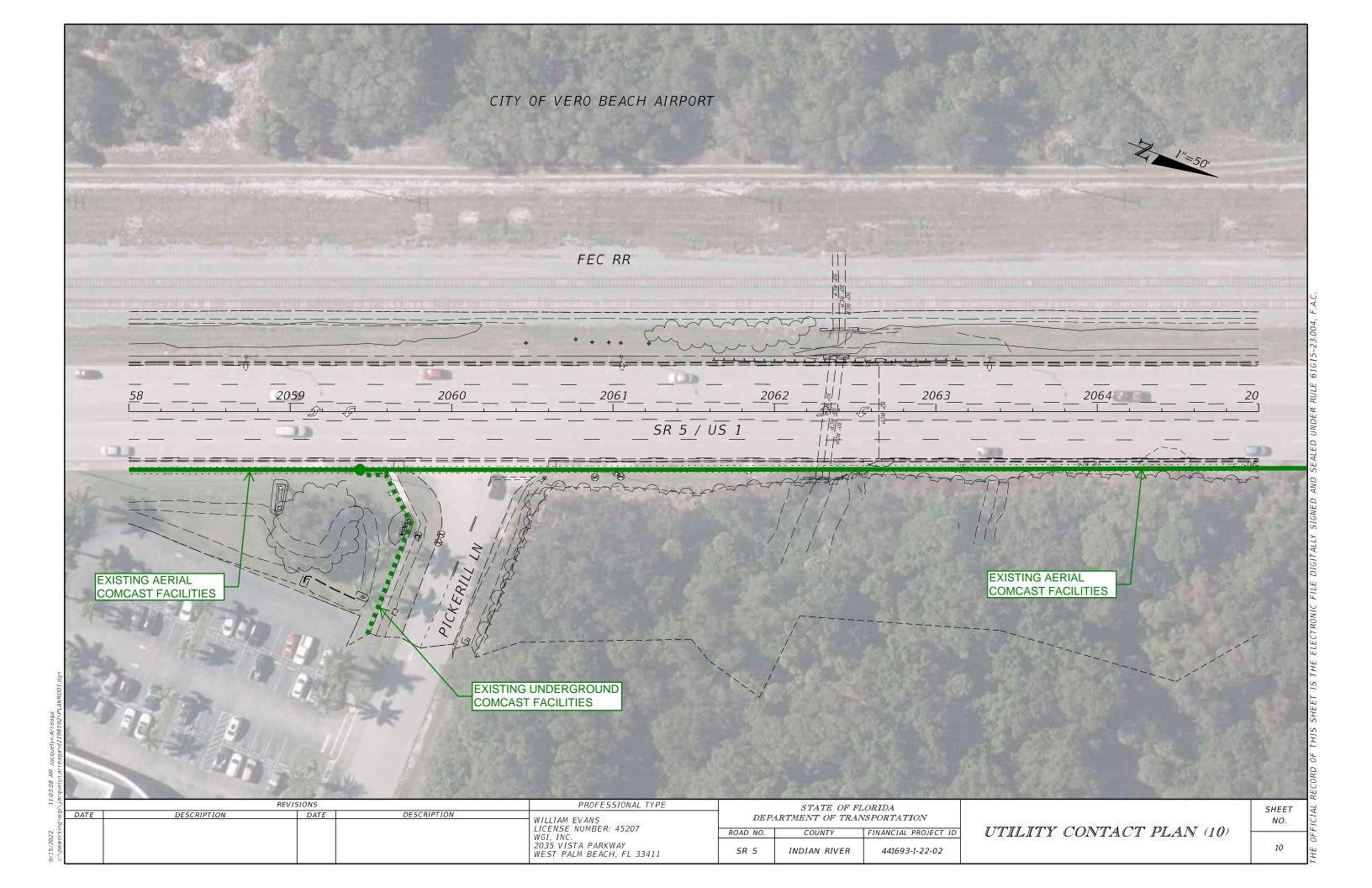


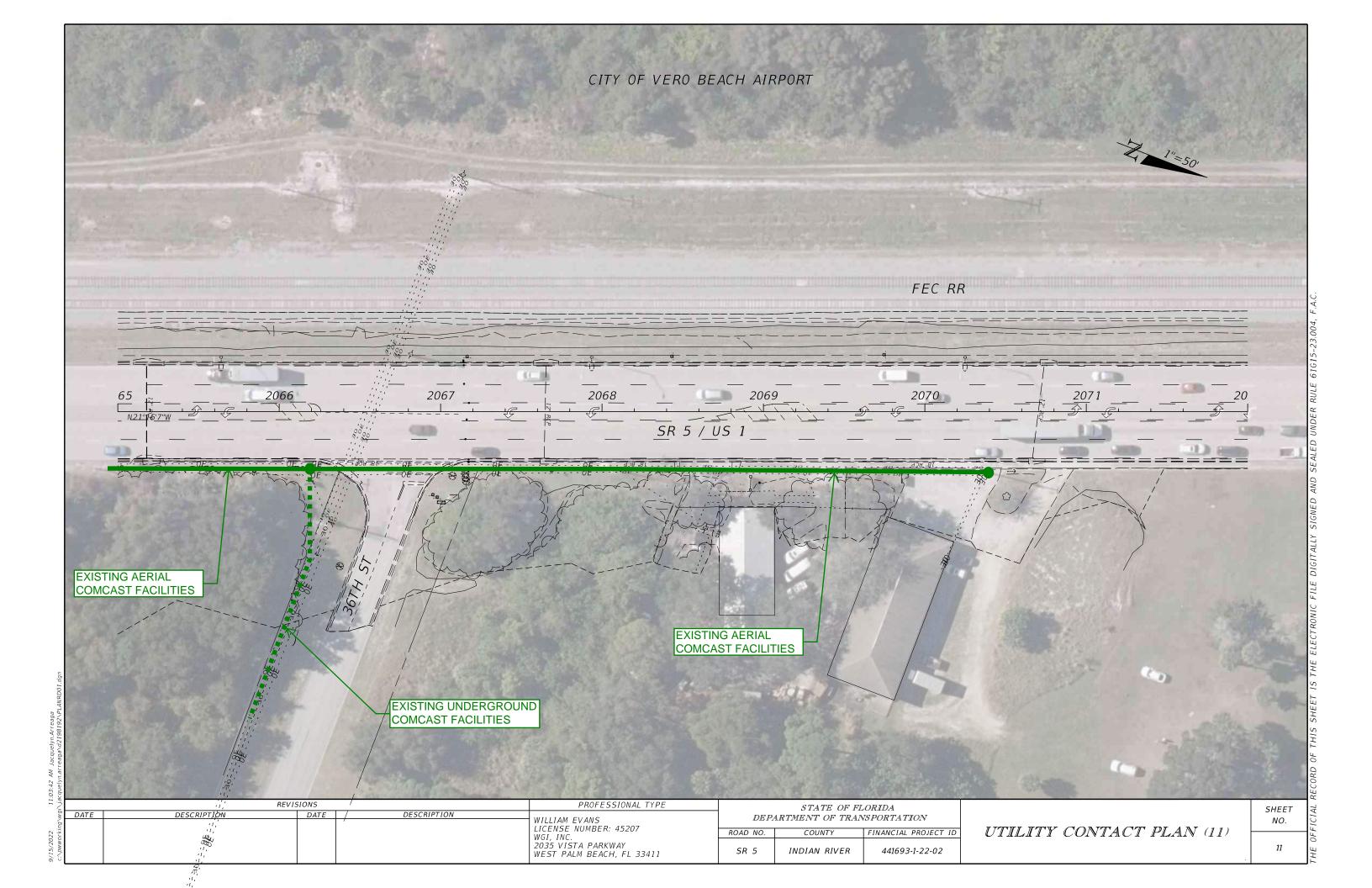


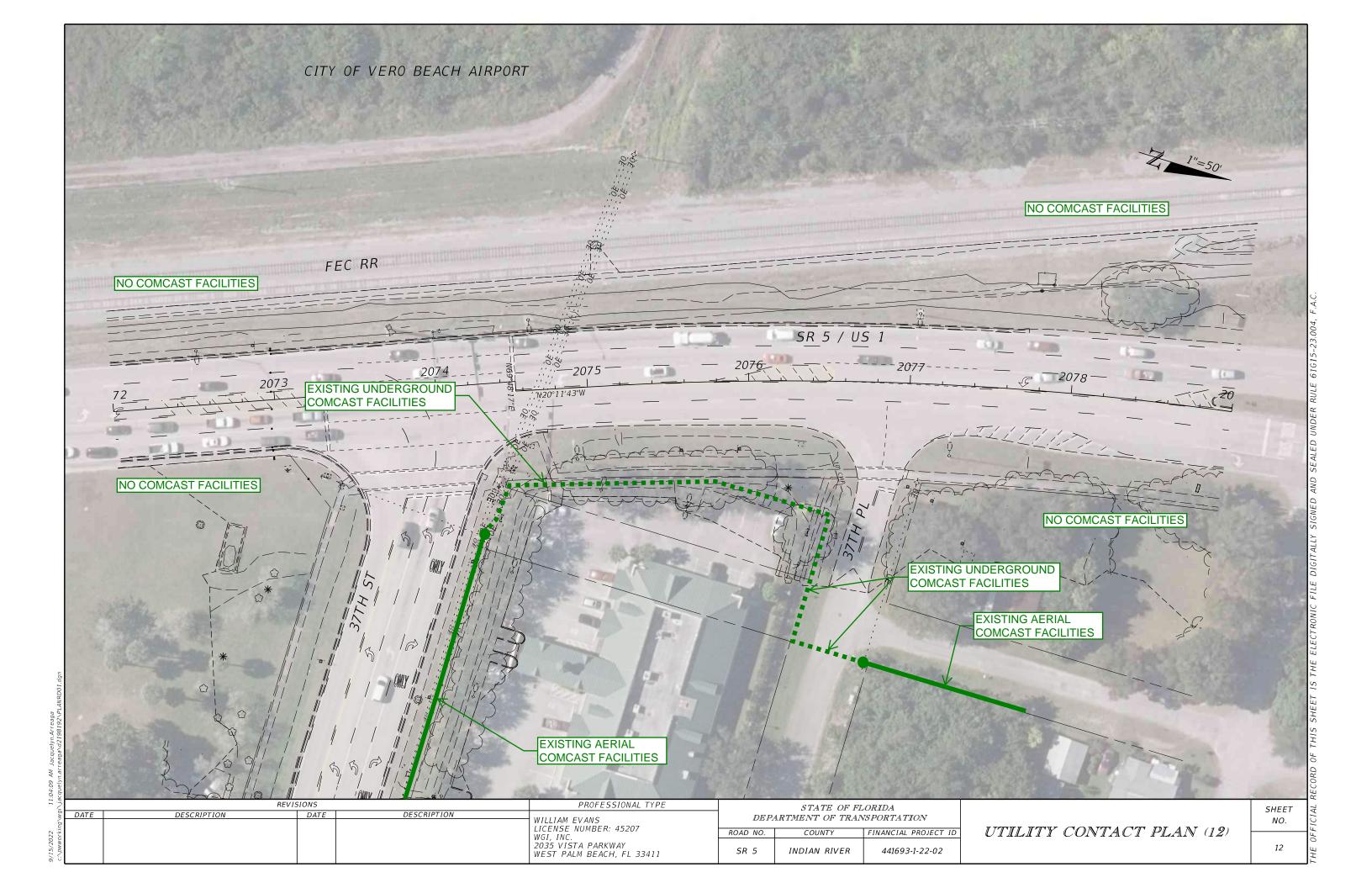


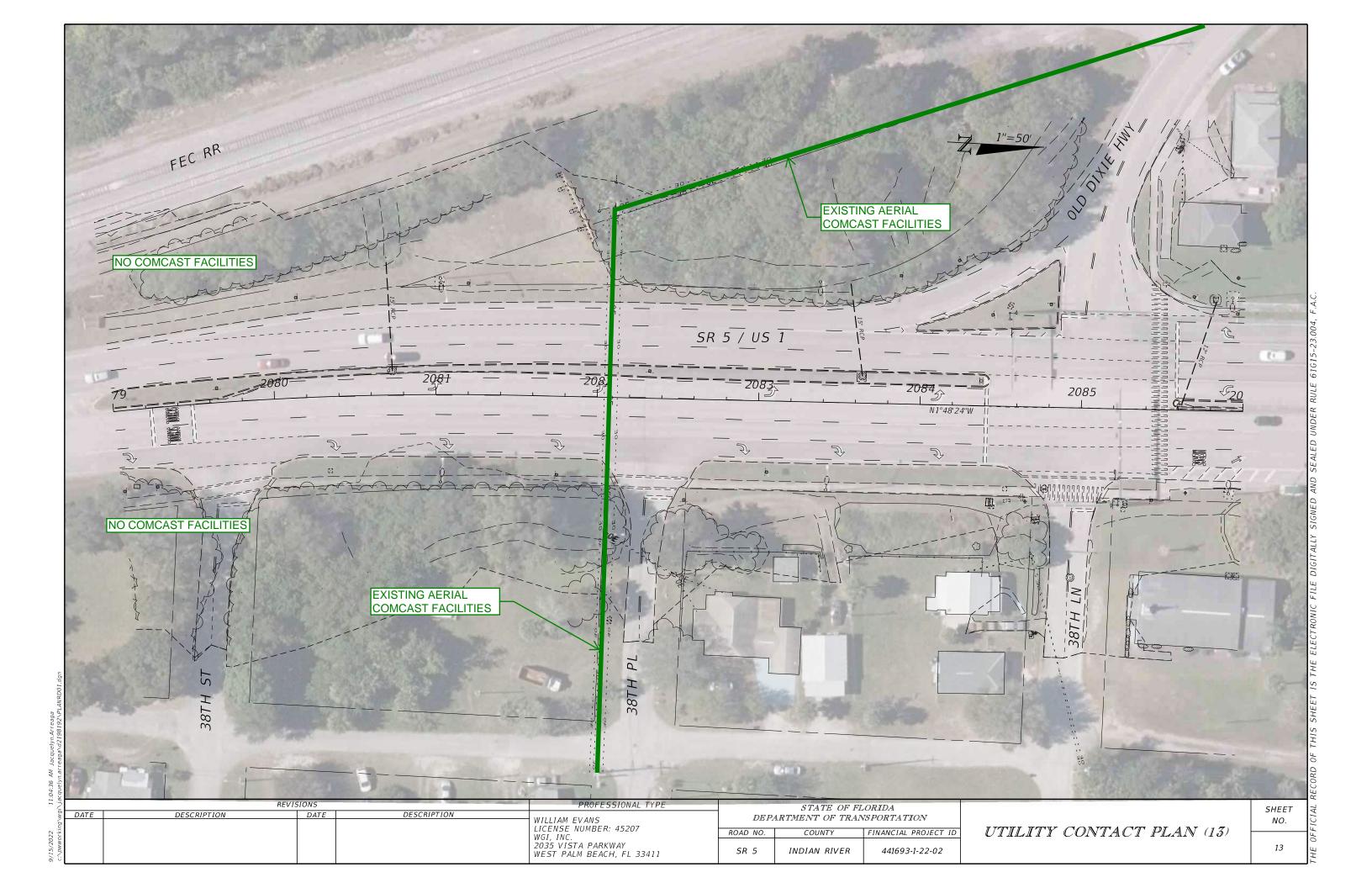


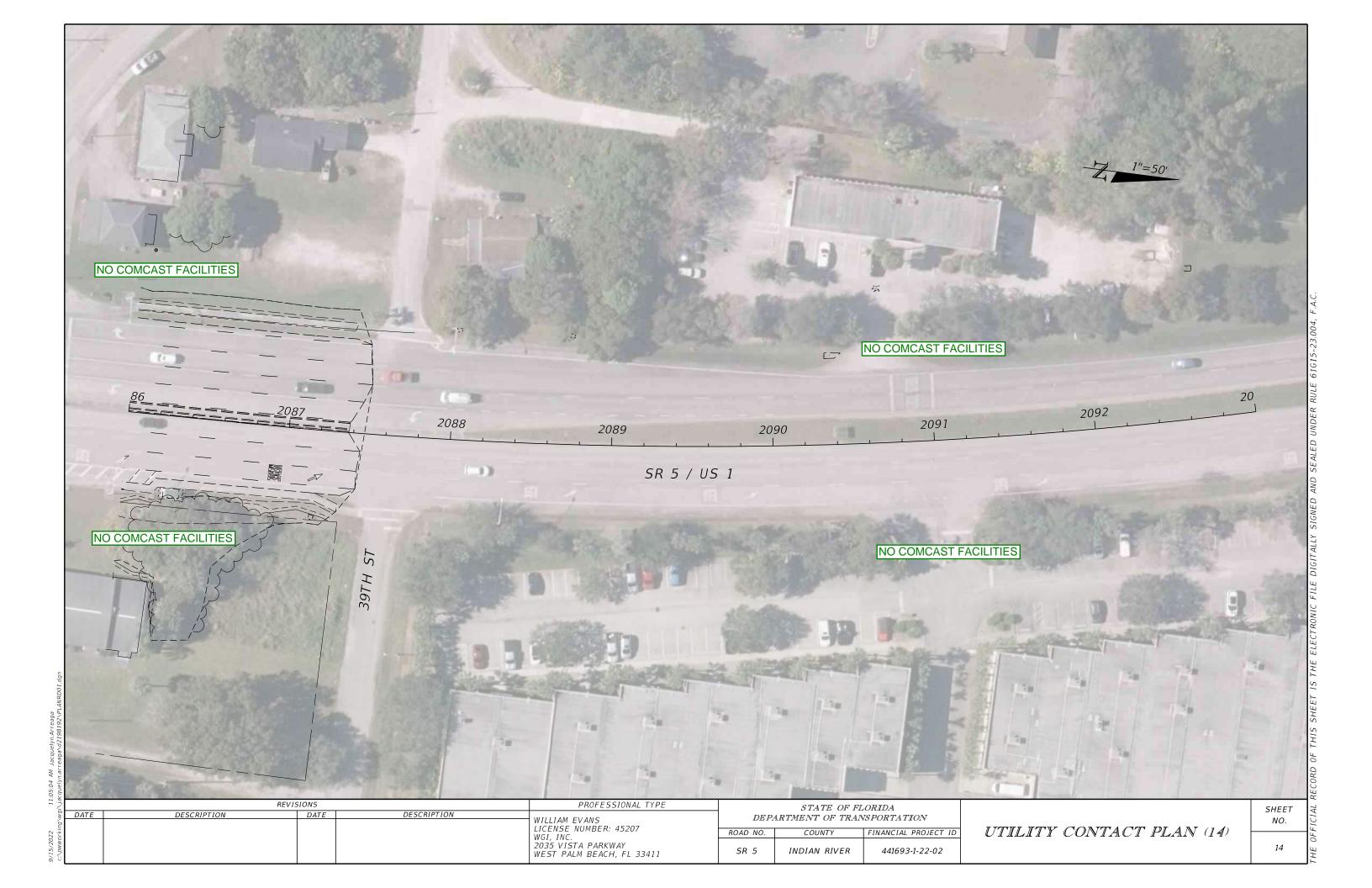




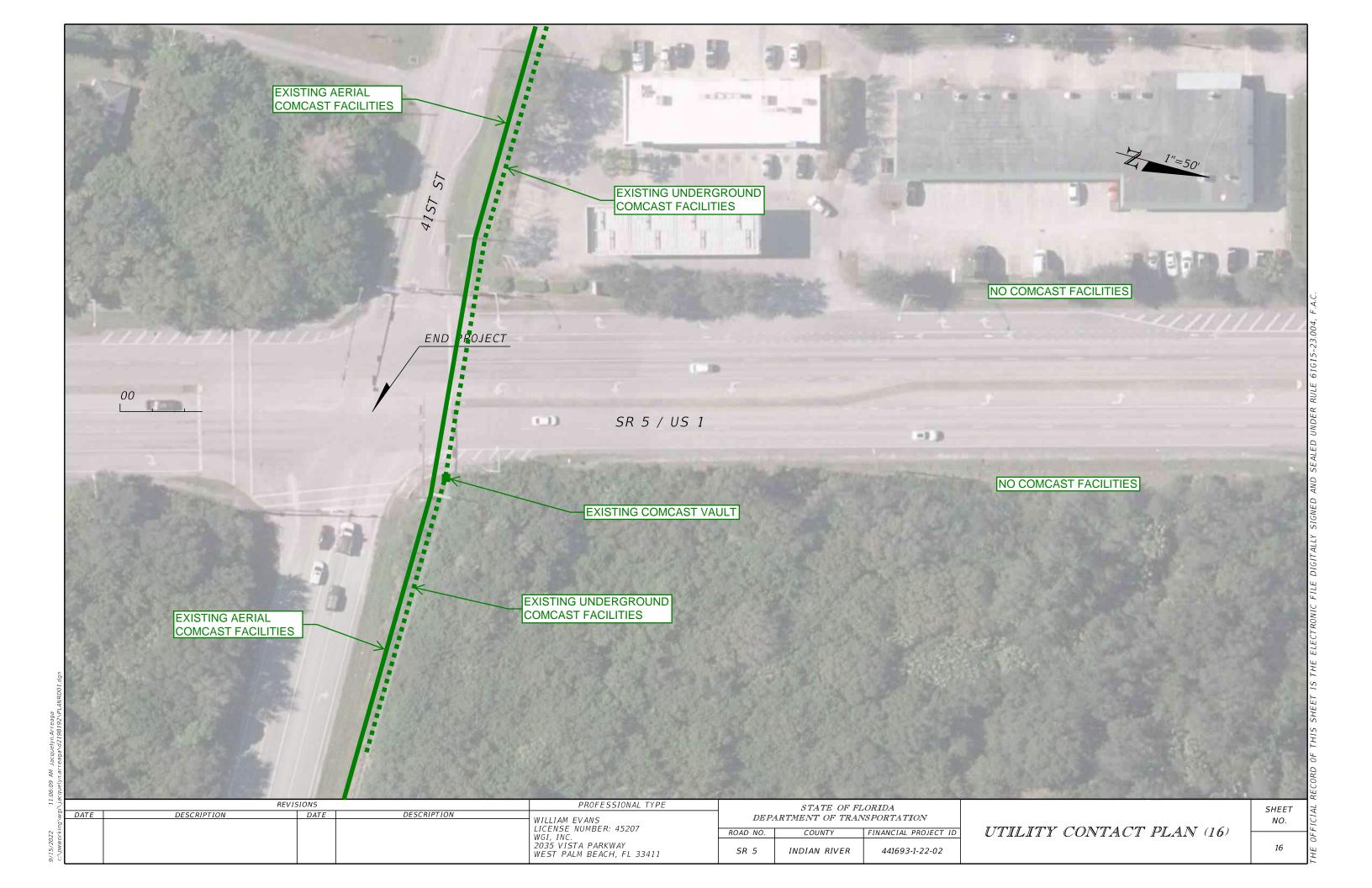












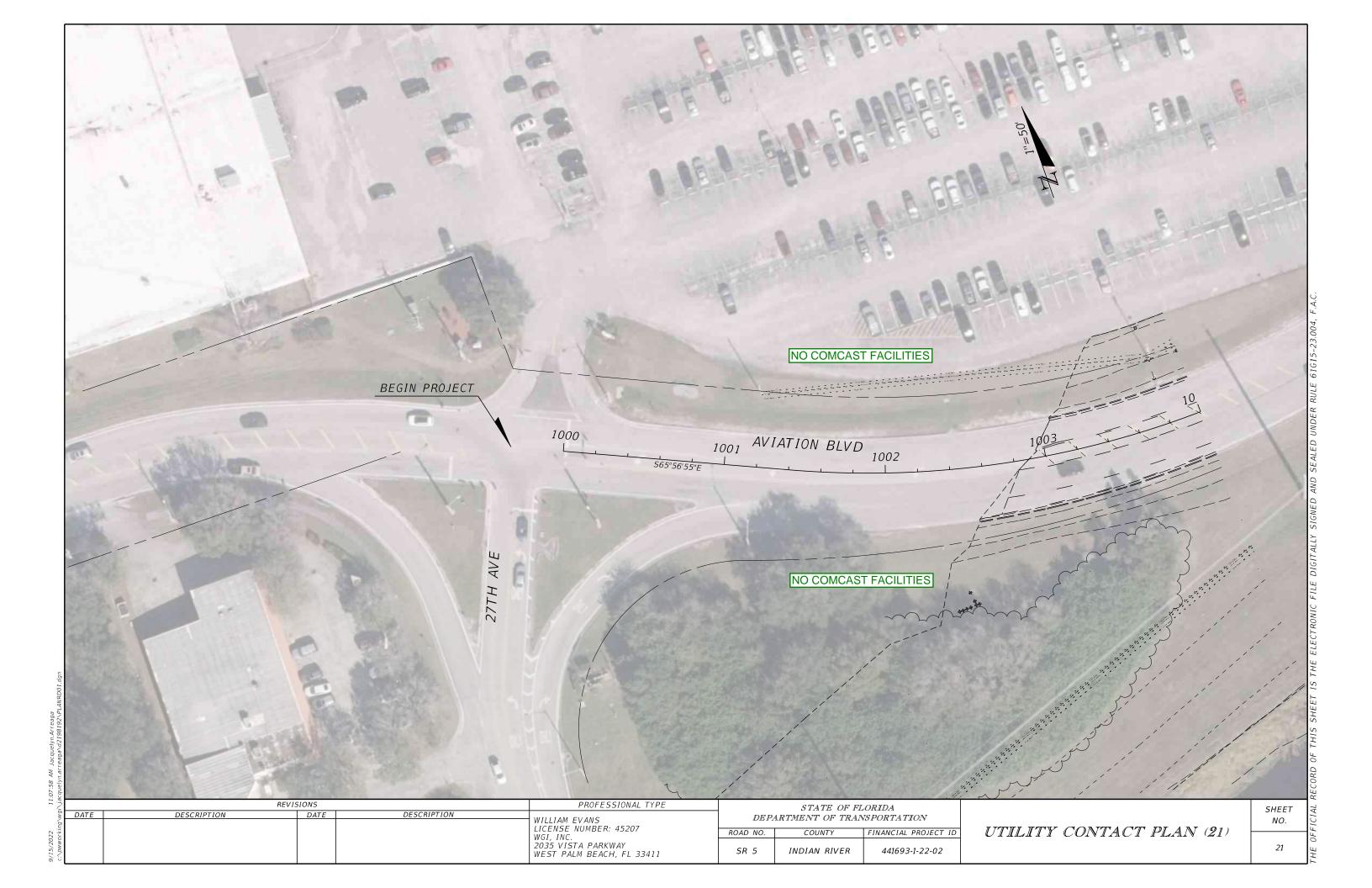


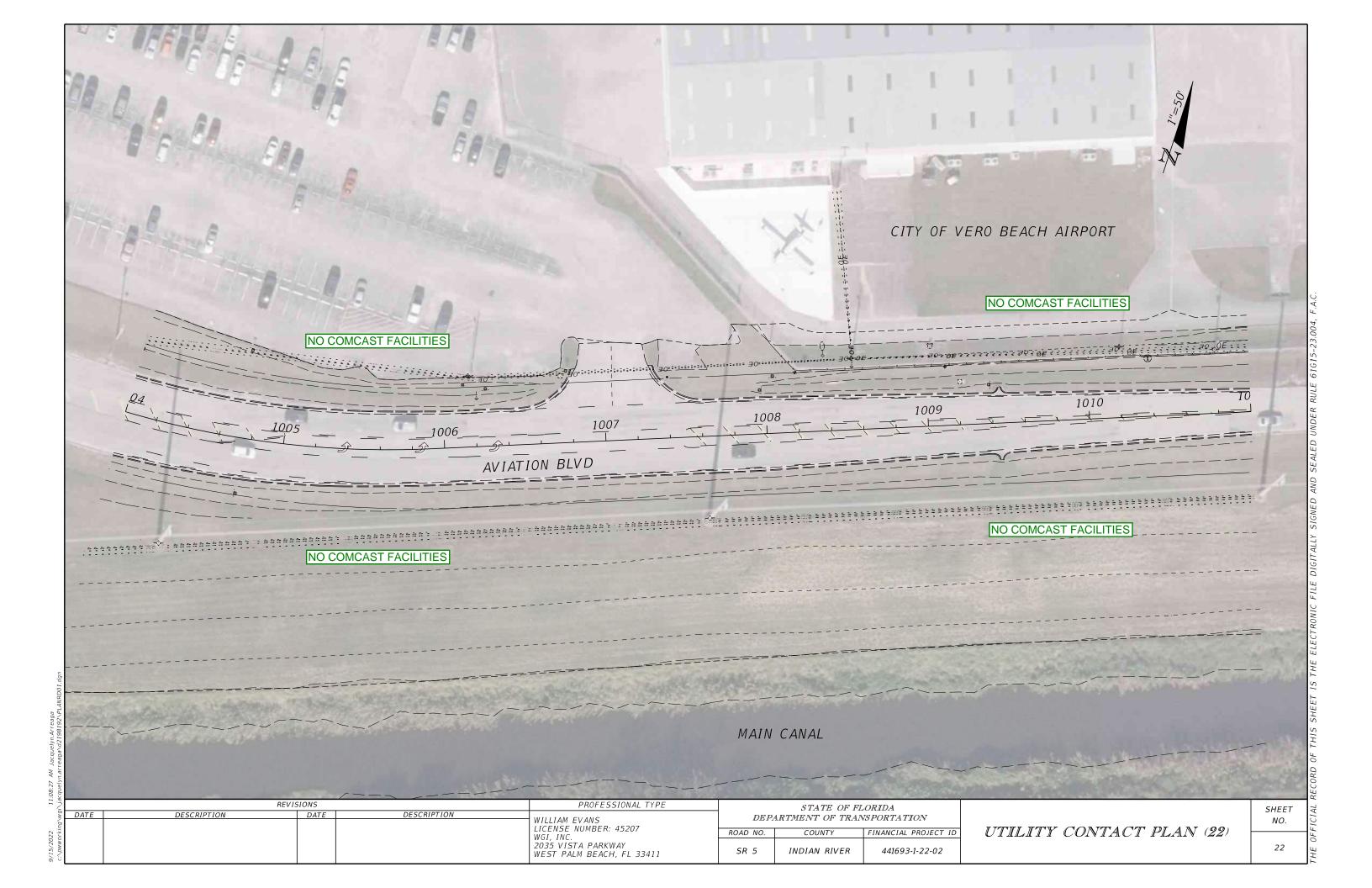


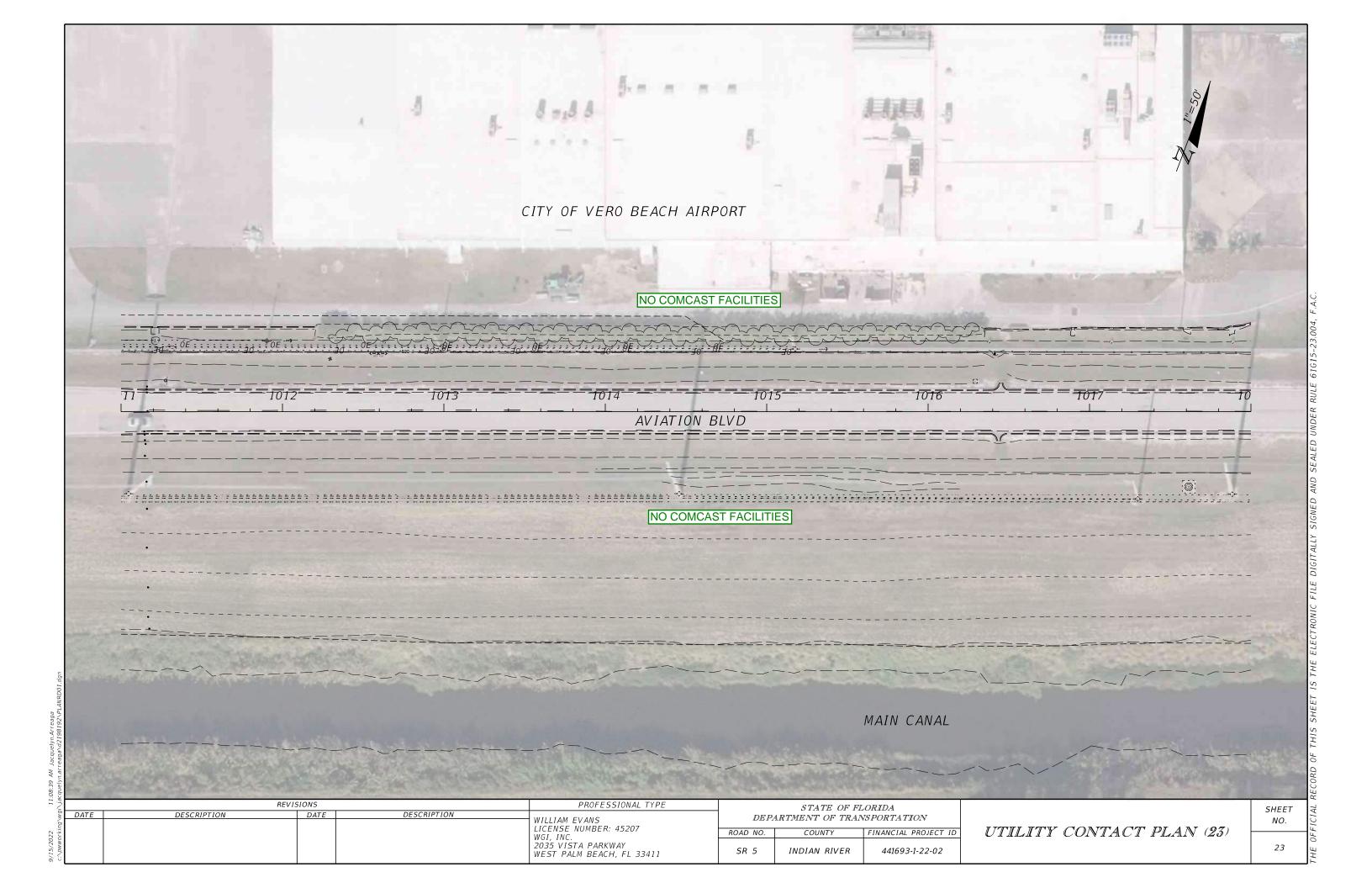


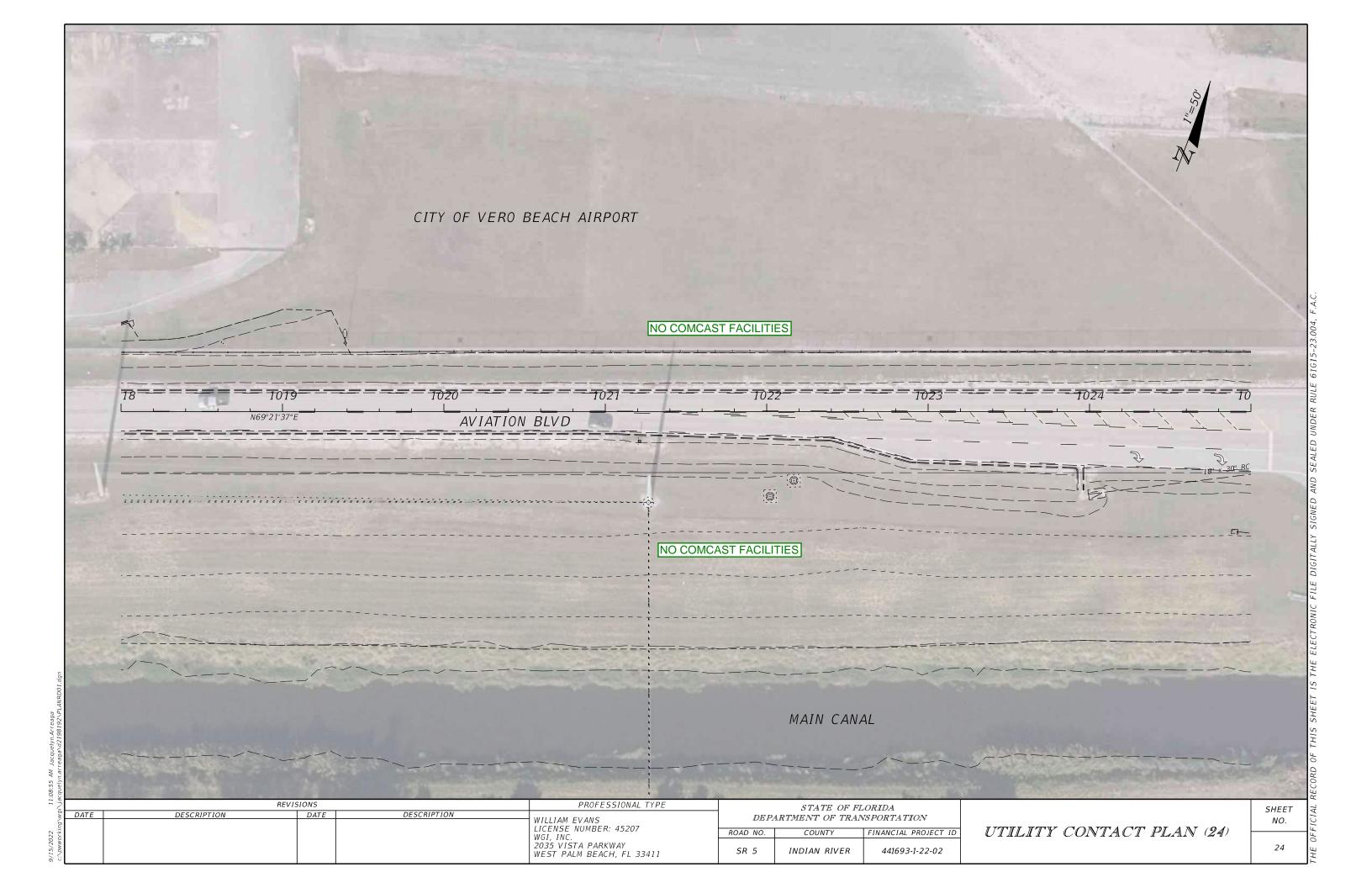


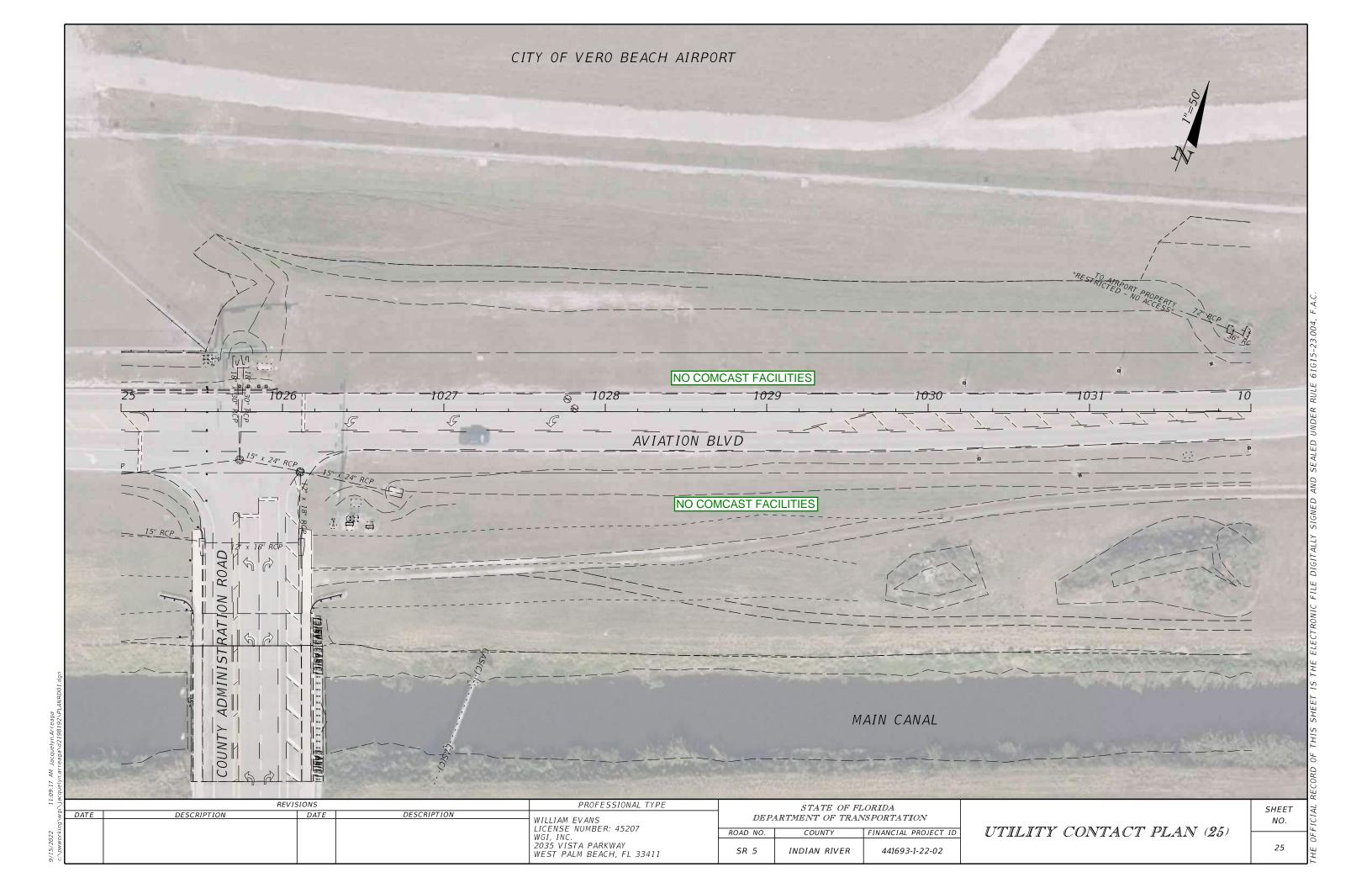
SR 5 INDIAN RIVER 441693-1-22-02

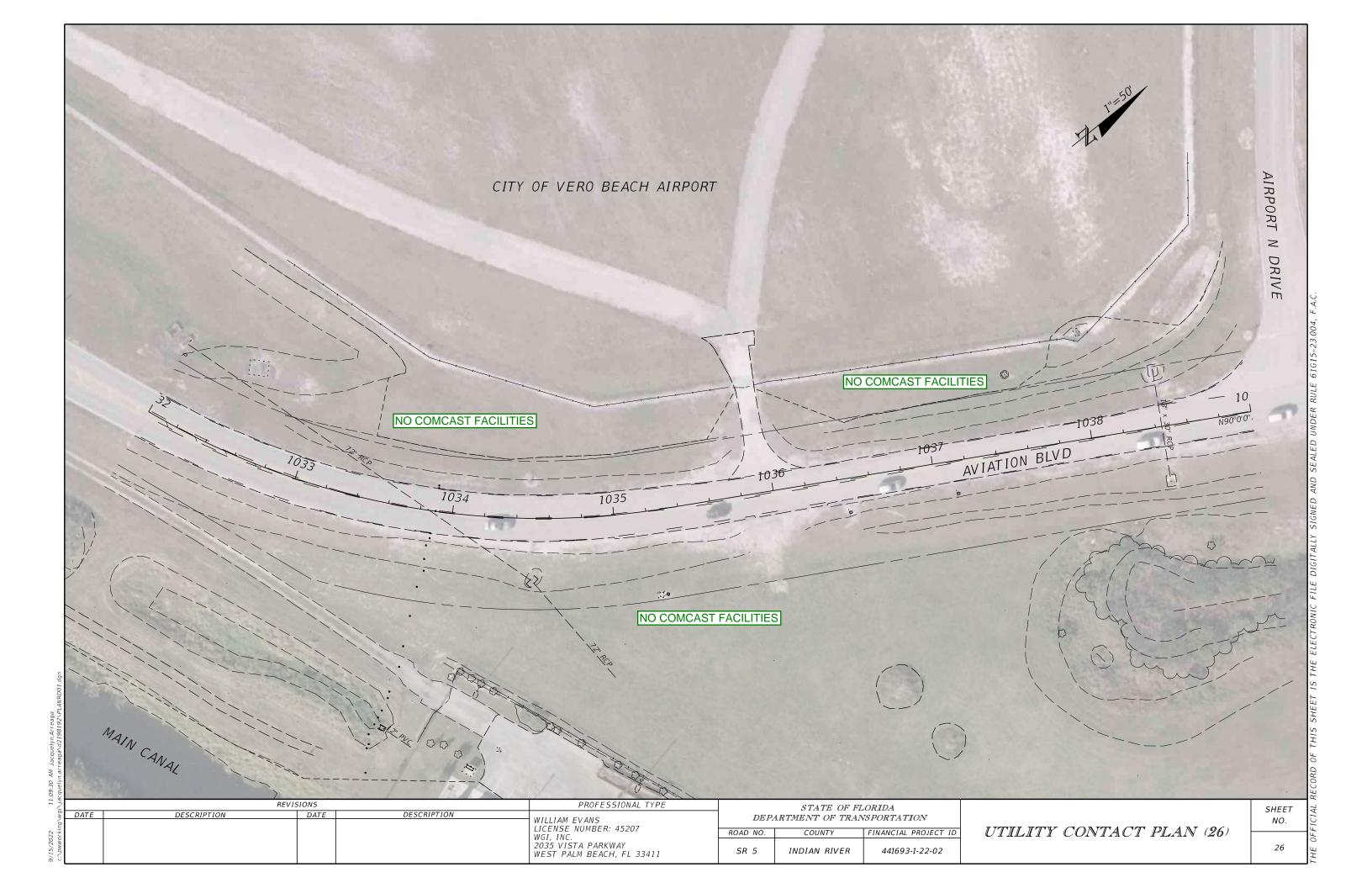


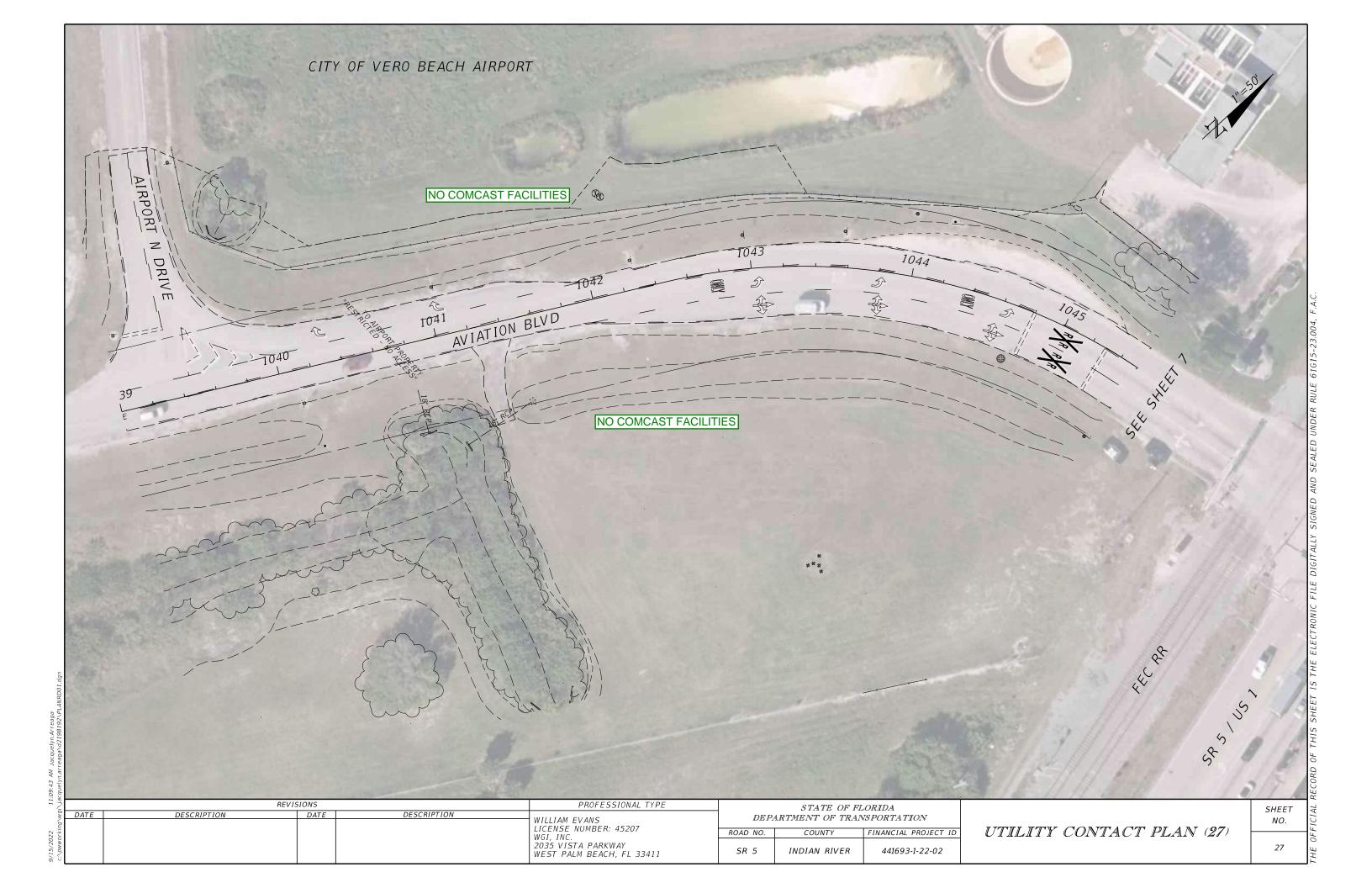












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Appendix D

Crown Castle

Owen Smith

From: South Florida Plans Review <SouthFloridaPlansReview@crowncastle.com>

Sent: Friday, July 7, 2023 1:20 PM

To: Owen Smith

Subject: [EXTERNAL] RE: FPID 441693-1-22-02: Aviation Blvd PD&E Study from 27th Ave to US1/SR5 and SR5 from 21st St. to 37th St - Utility Greenline Markup Request

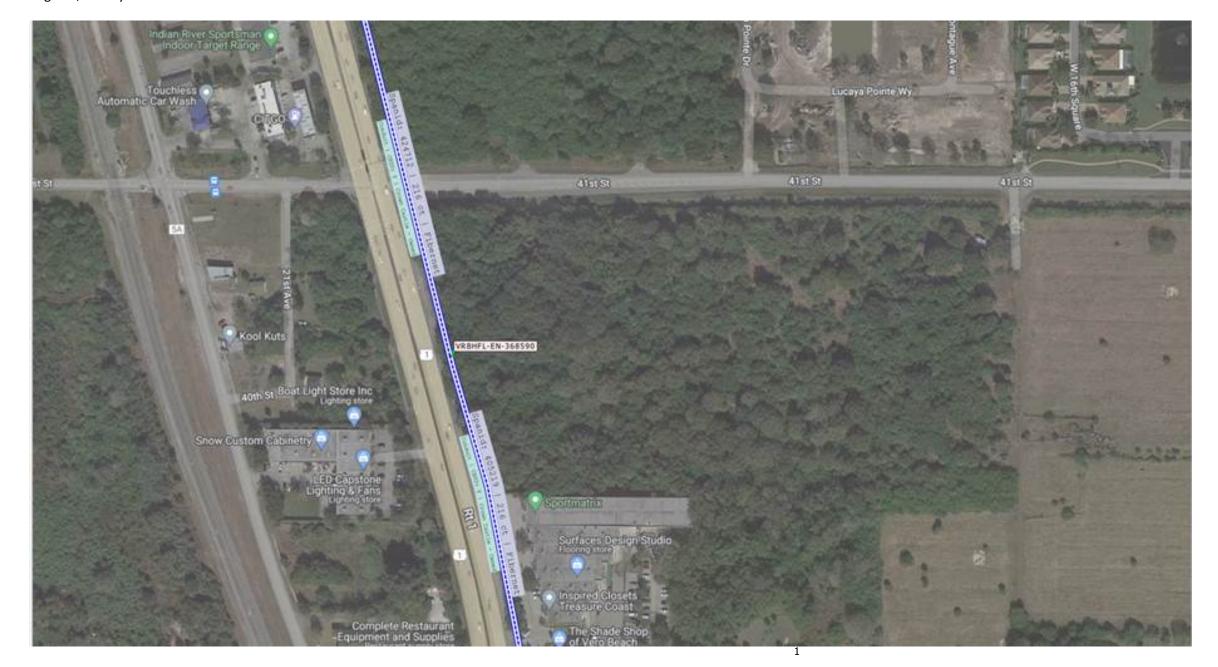
Attachments: 441693-1-22-02-UtilityContactPlanSet_2022-0915.pdf

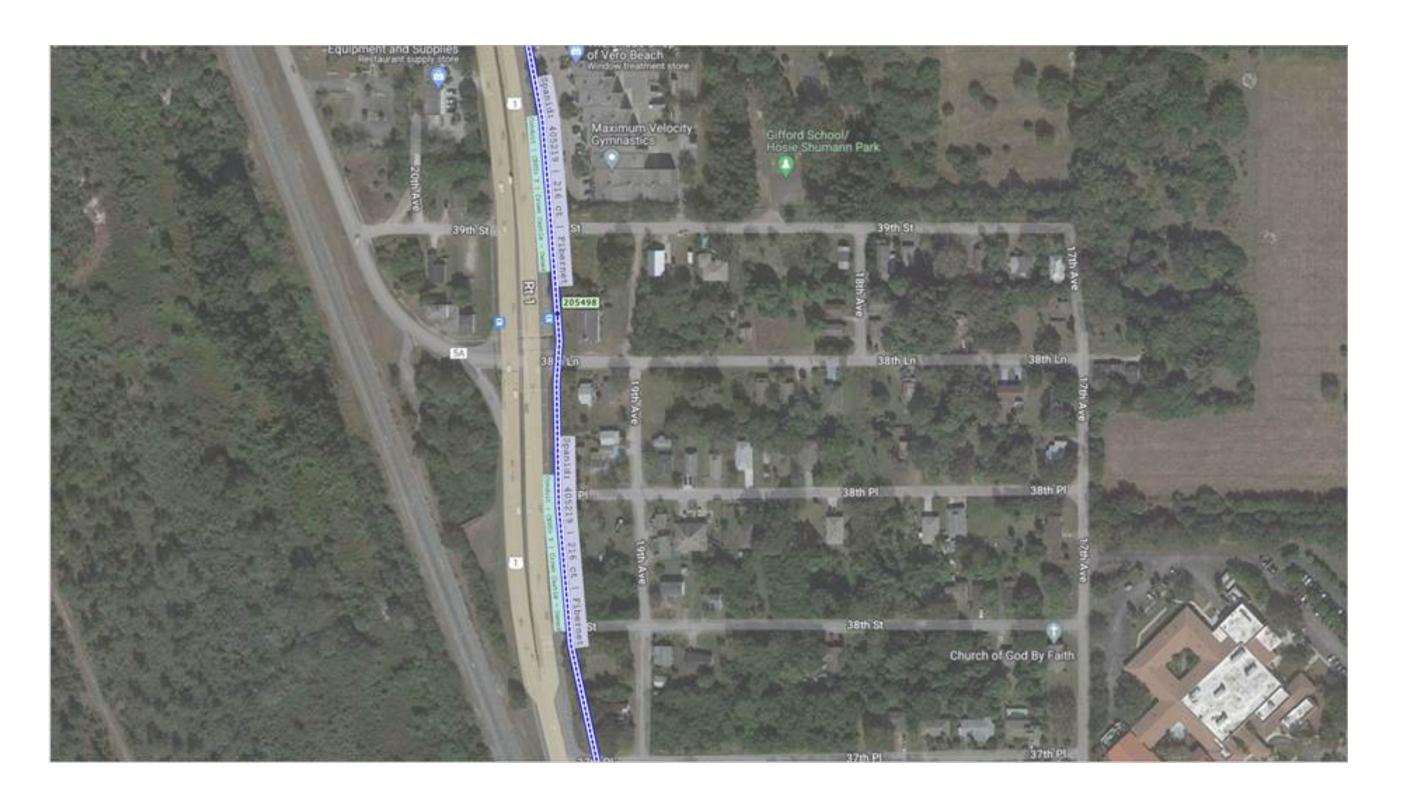
Owen,

Attached are the maps showing the CCF facilities within the limits of project 441693-1-52-01 in Indian River County. We have no facilities on sheets 17 through 26.

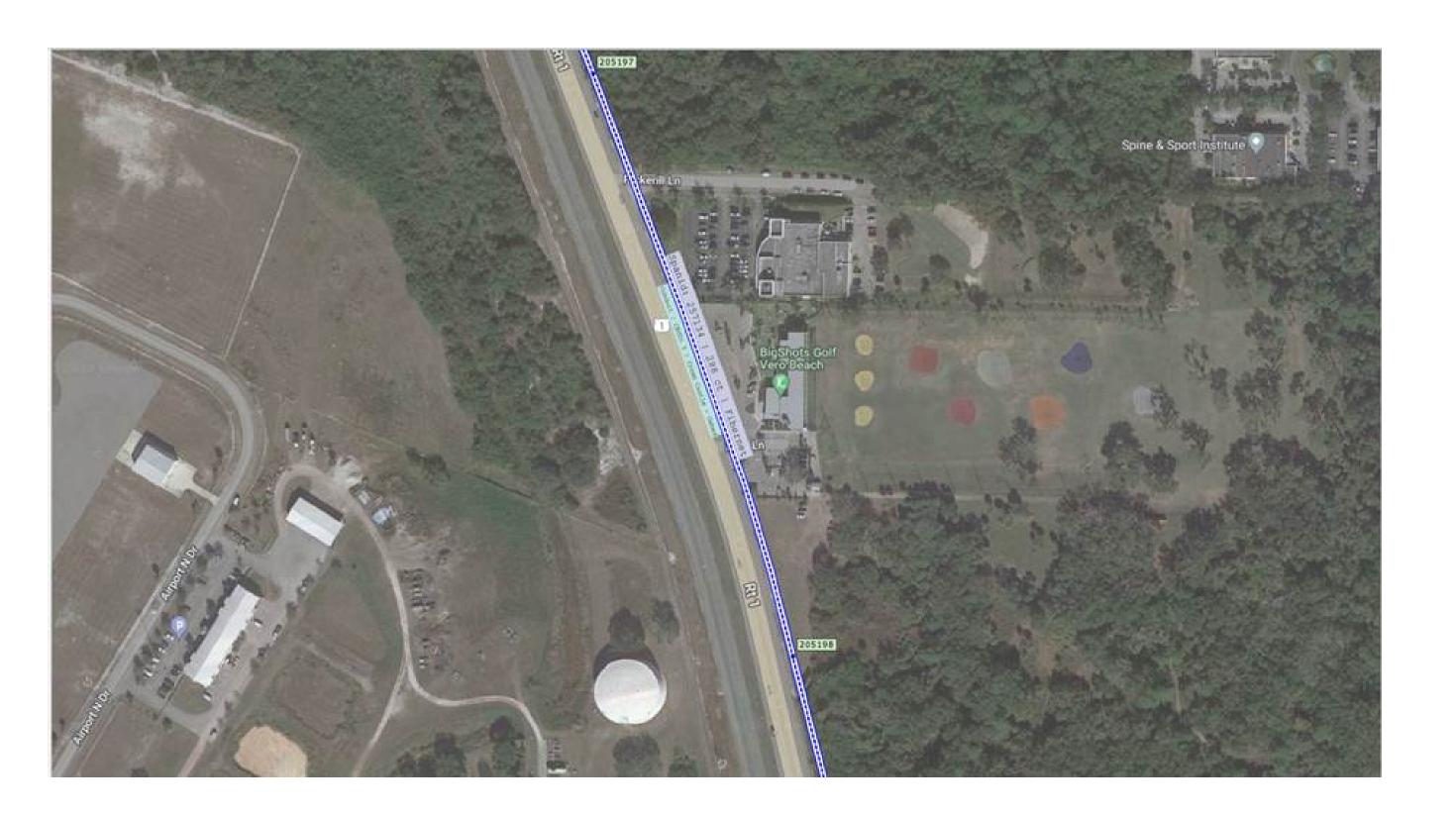
Let me know if you need anything more.

Regards, Danny







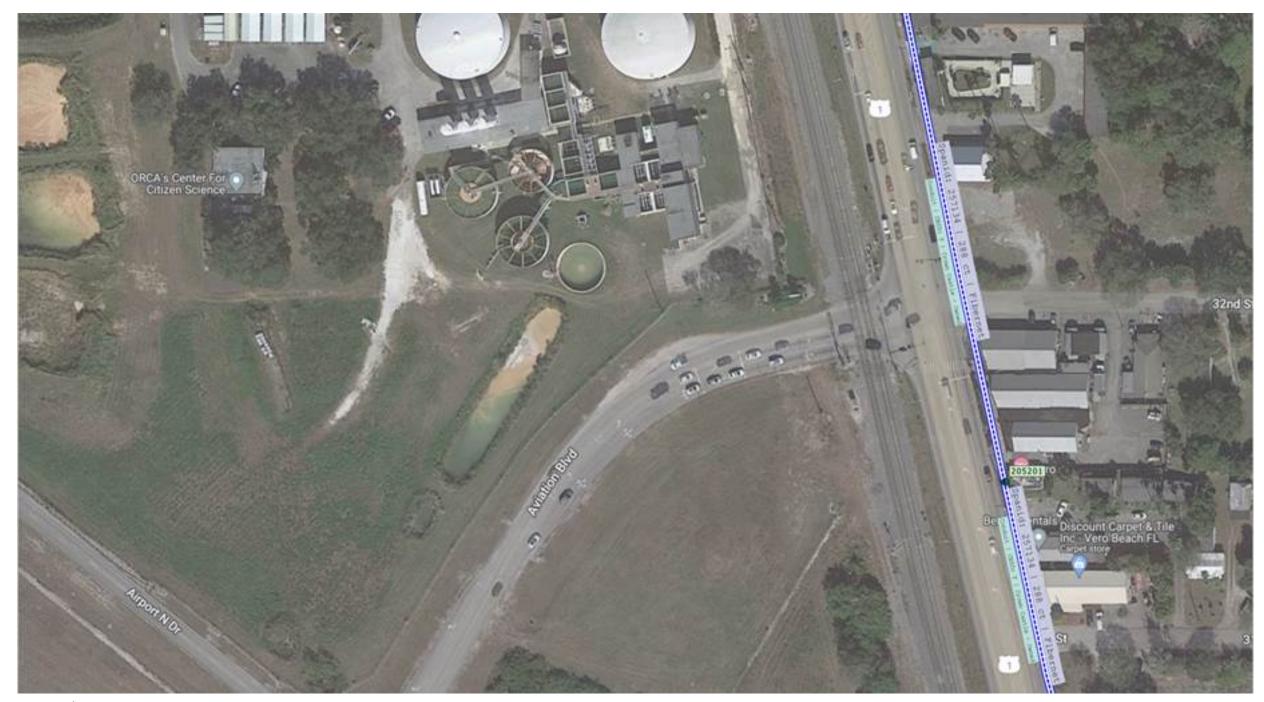












Regards, Danny

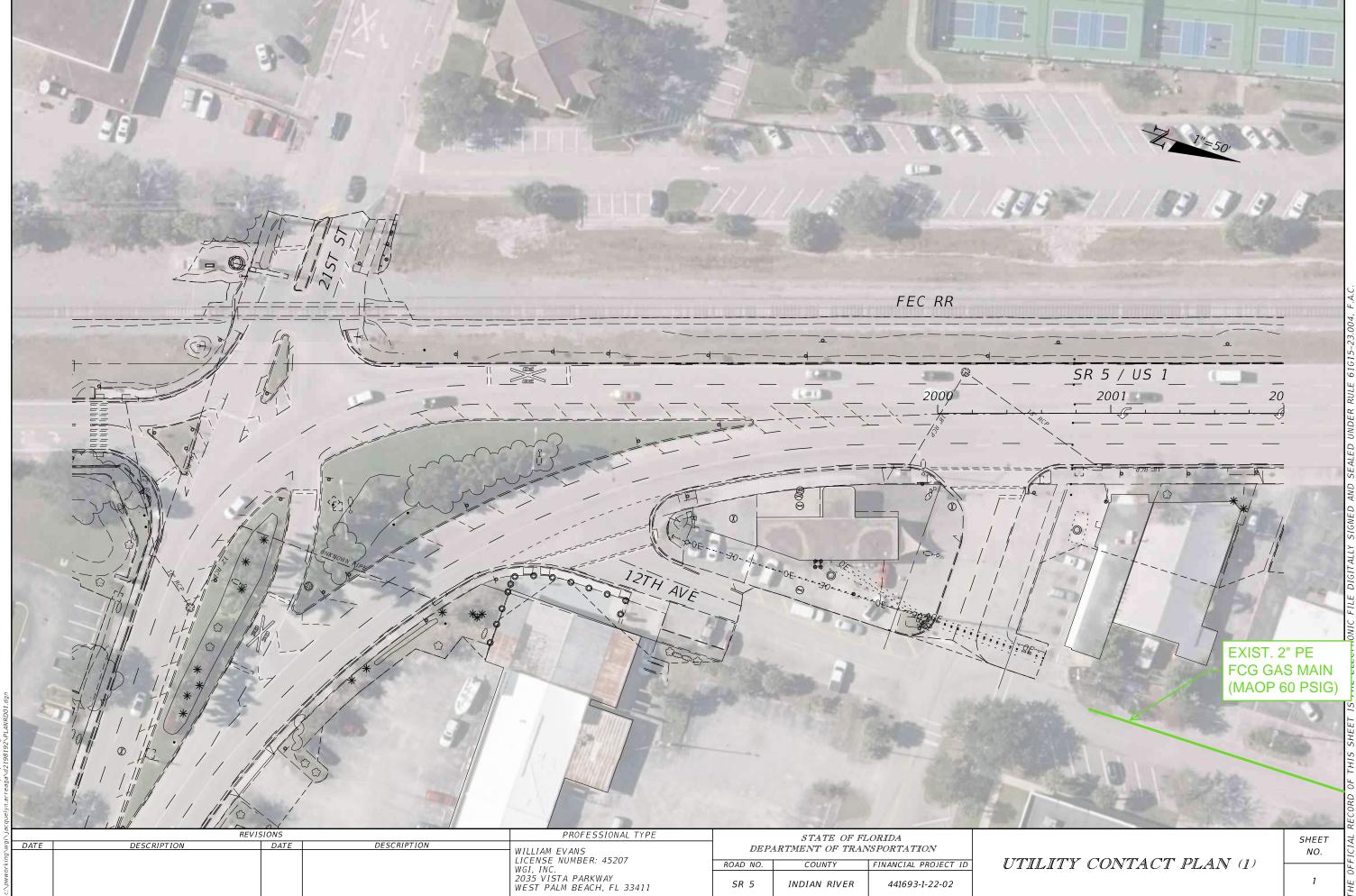
DANNY HASKETTOperations Manager **T**: 786-610-7073| **M**: 786-246-7827

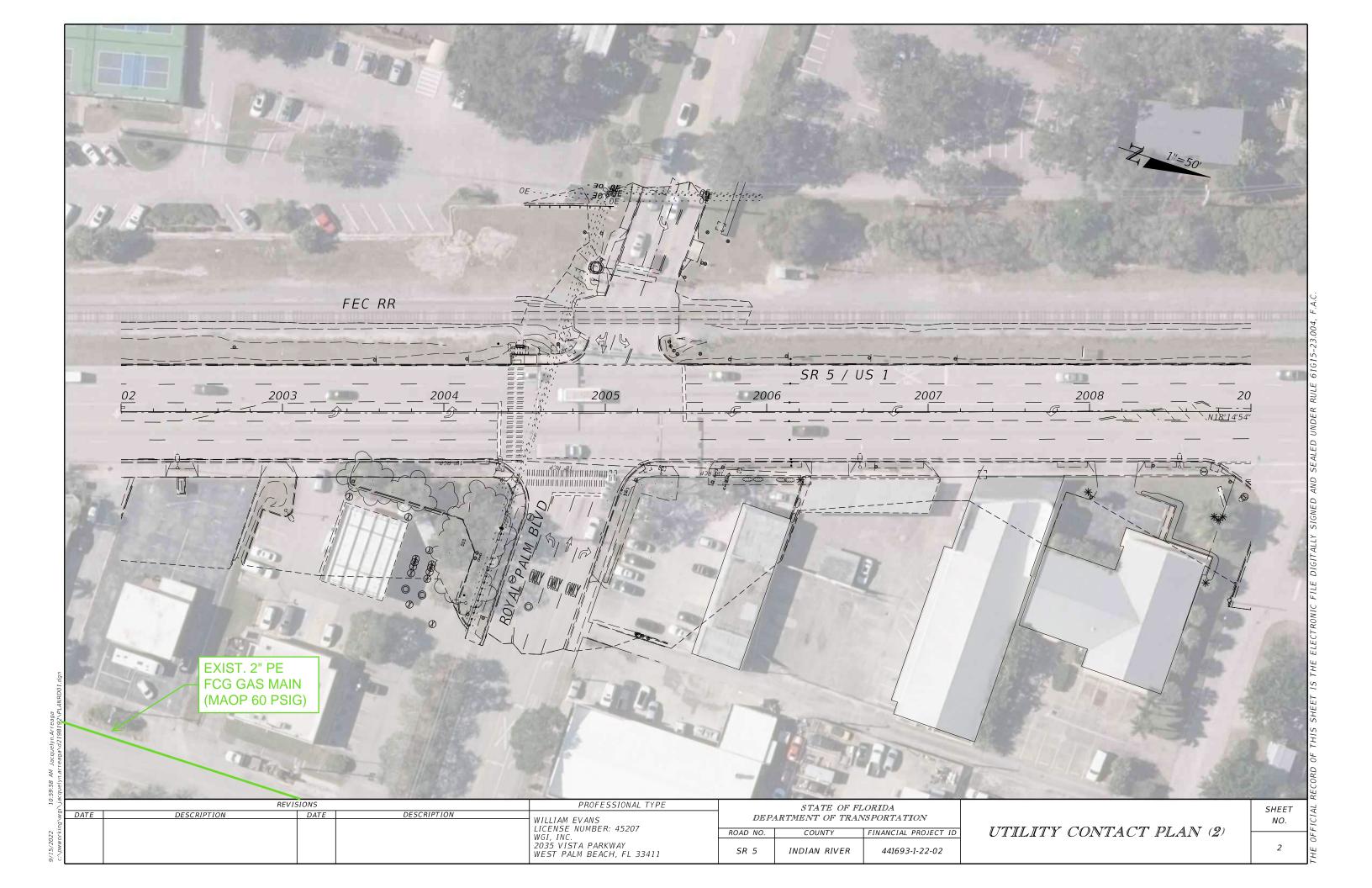
CROWN CASTLE FIBER 9250 W Flagler Street, Miami, FL 33174 Fiber.CrownCastle.com

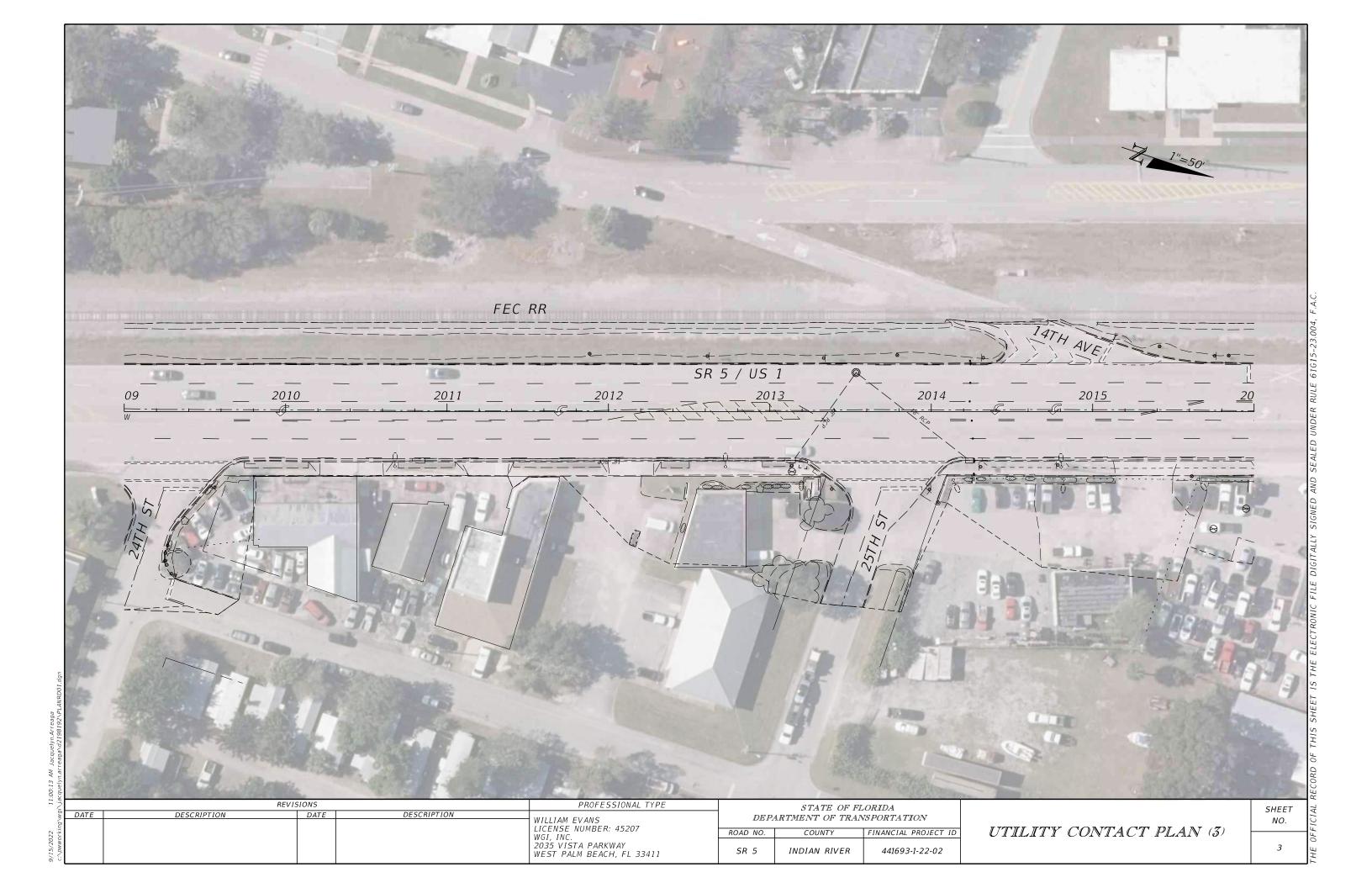
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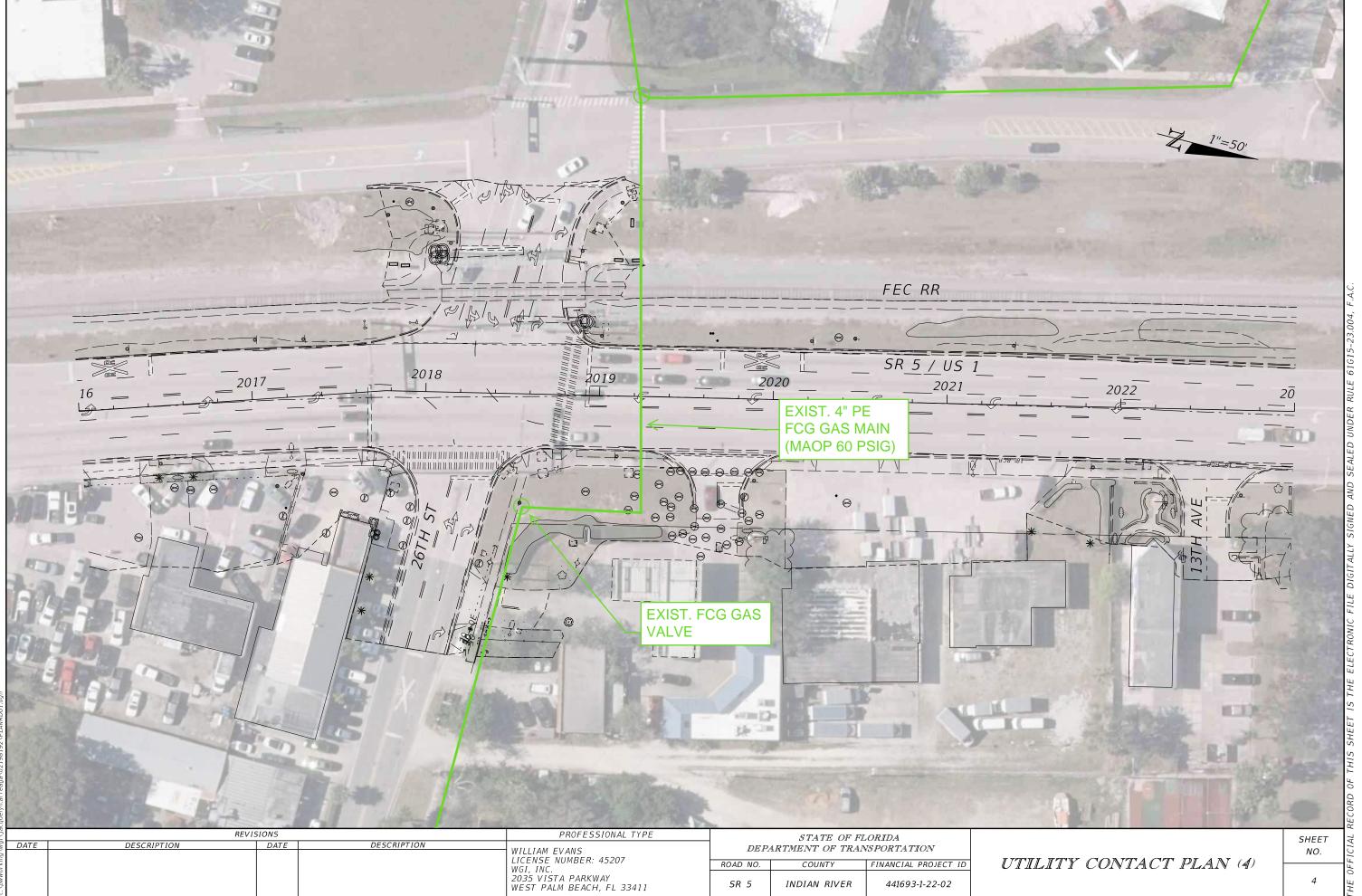
Appendix D

Florida City Gas/ NextEra





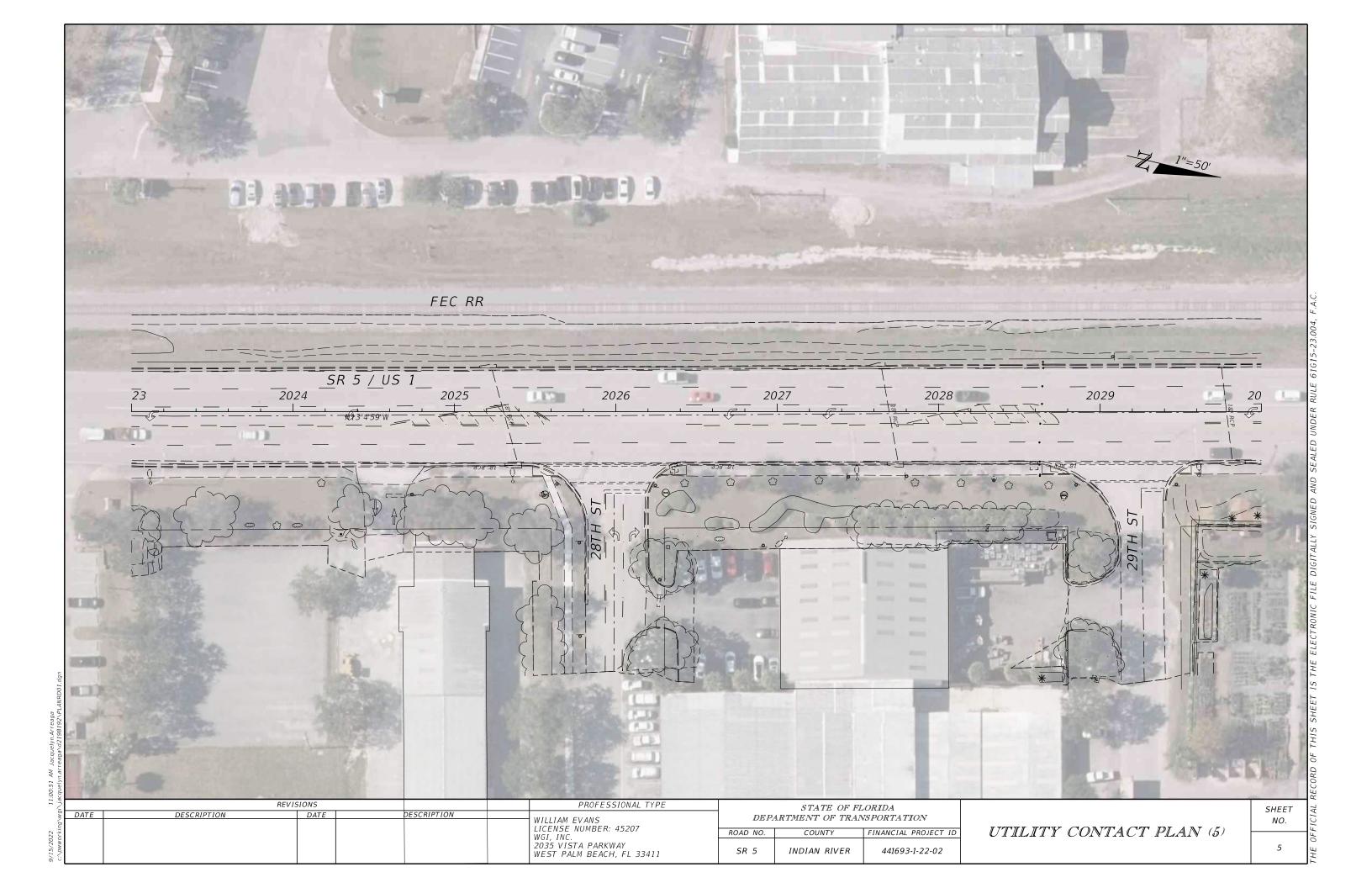


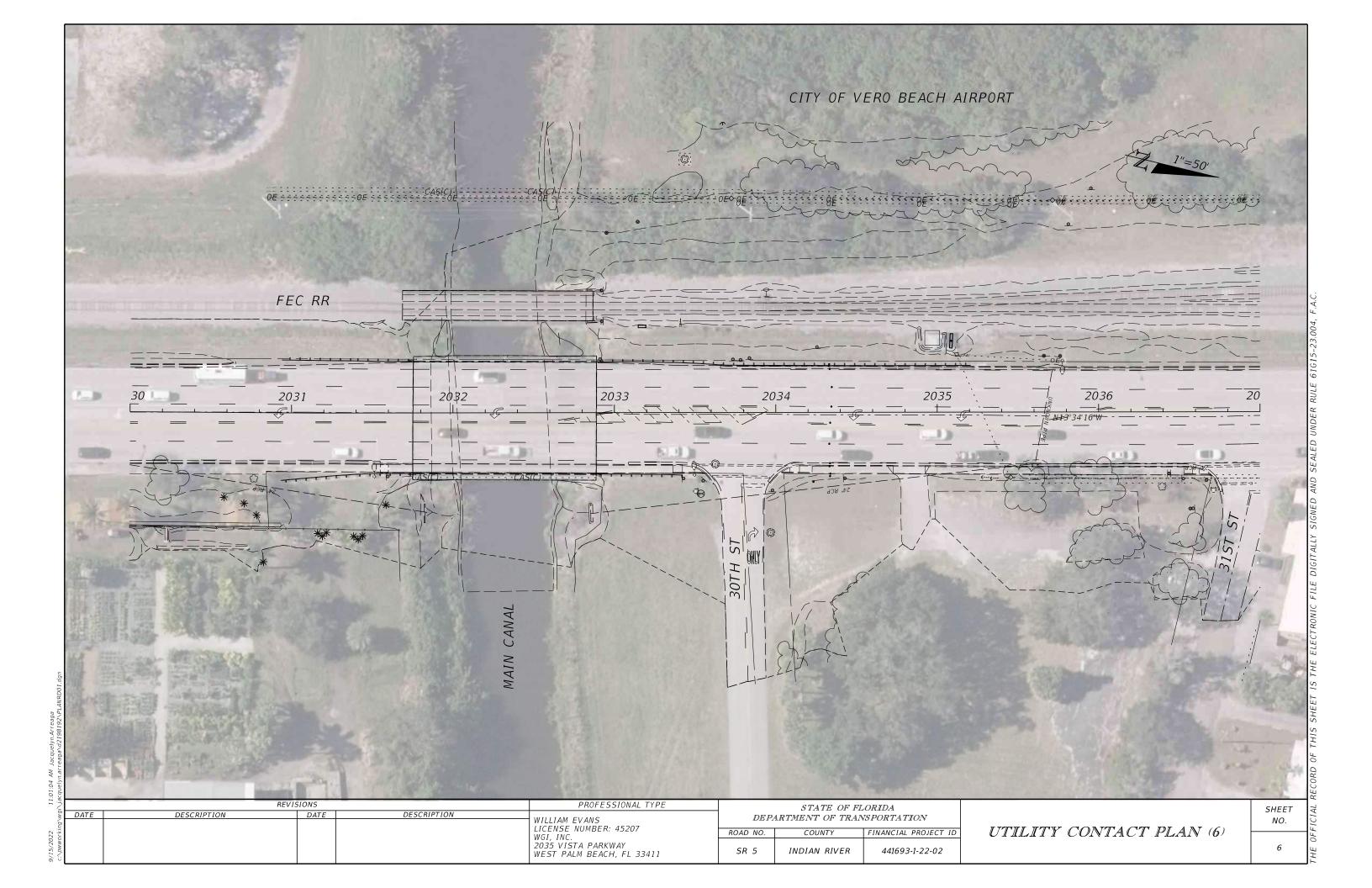


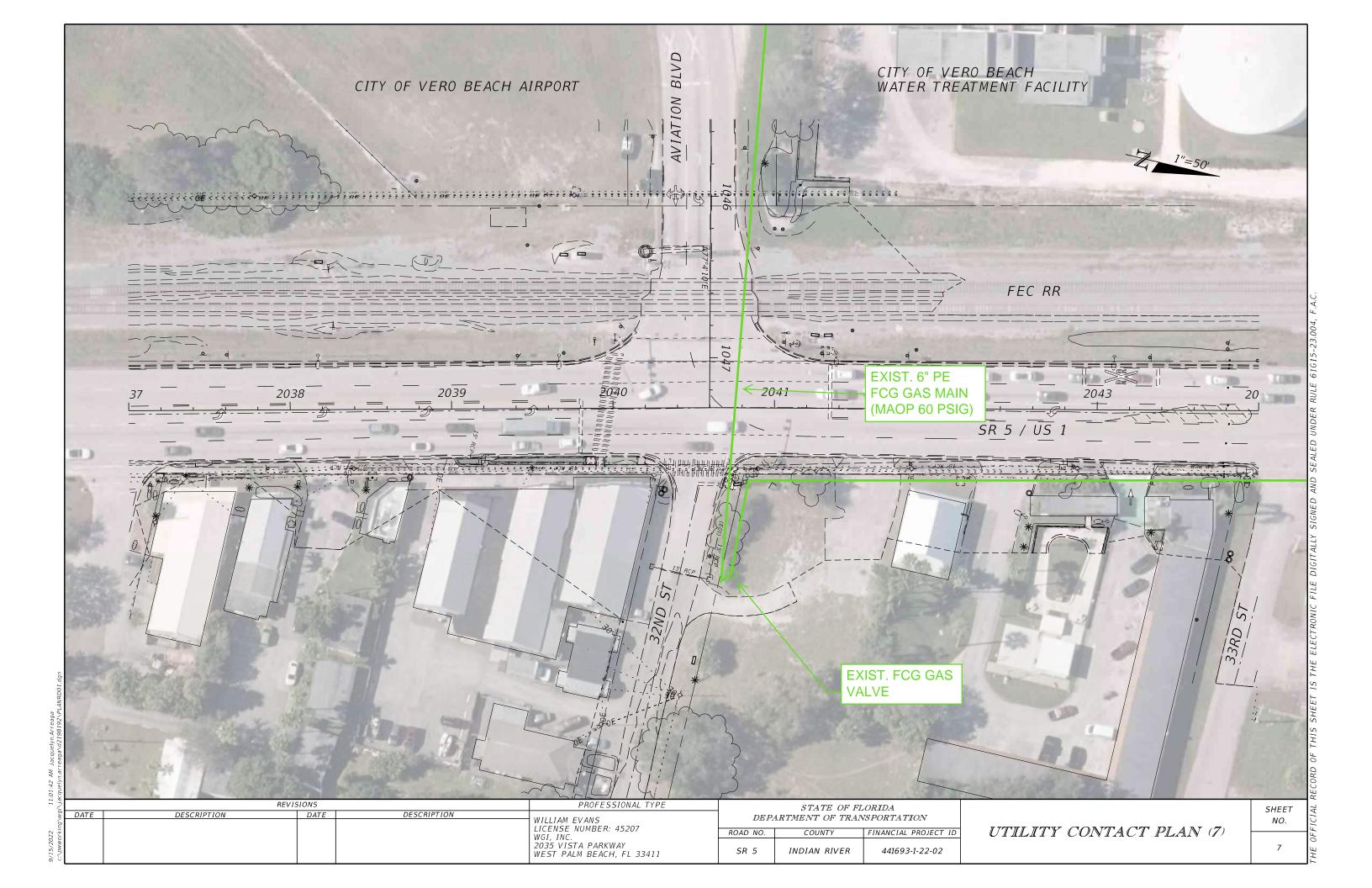
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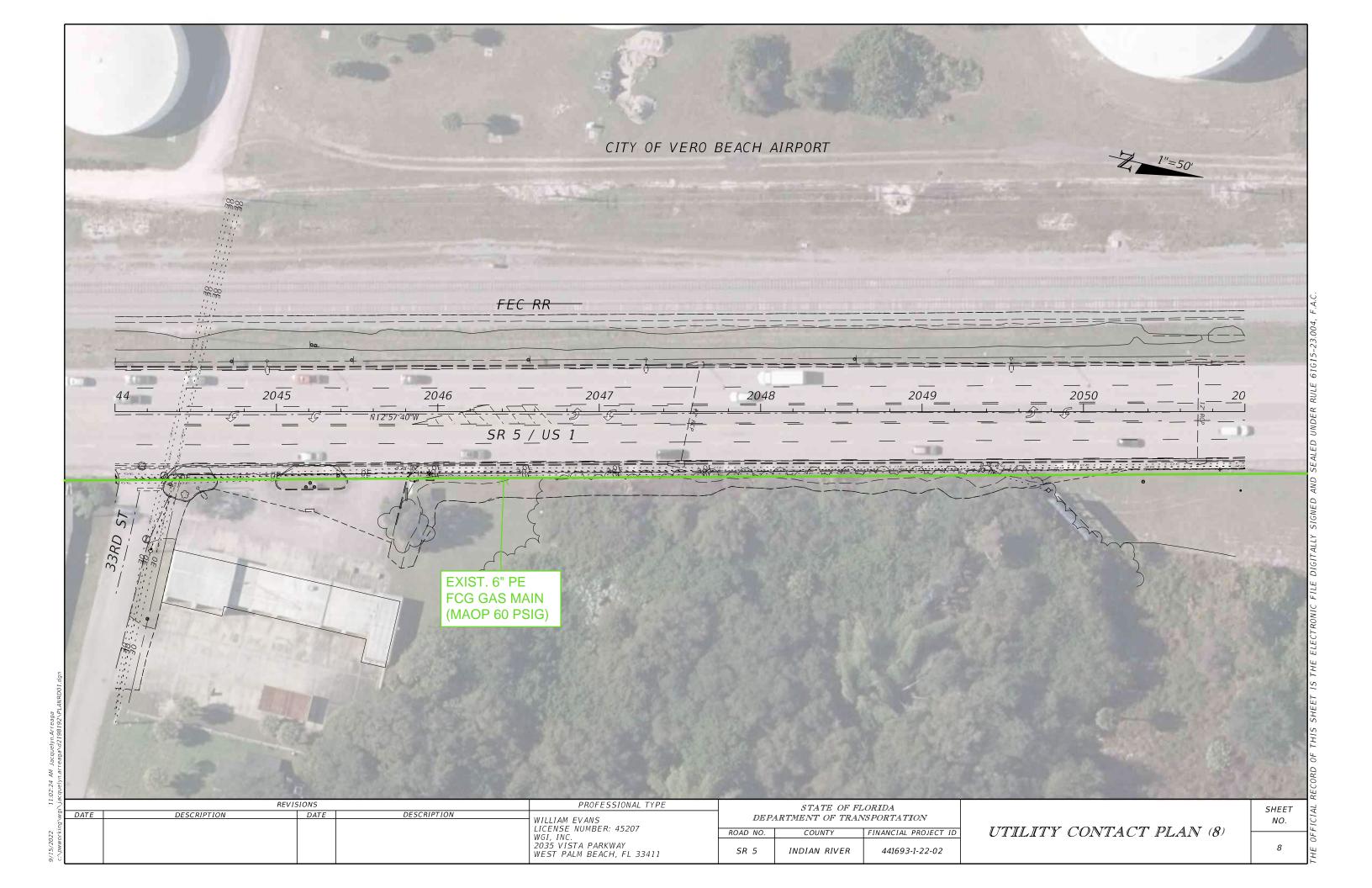
INDIAN RIVER

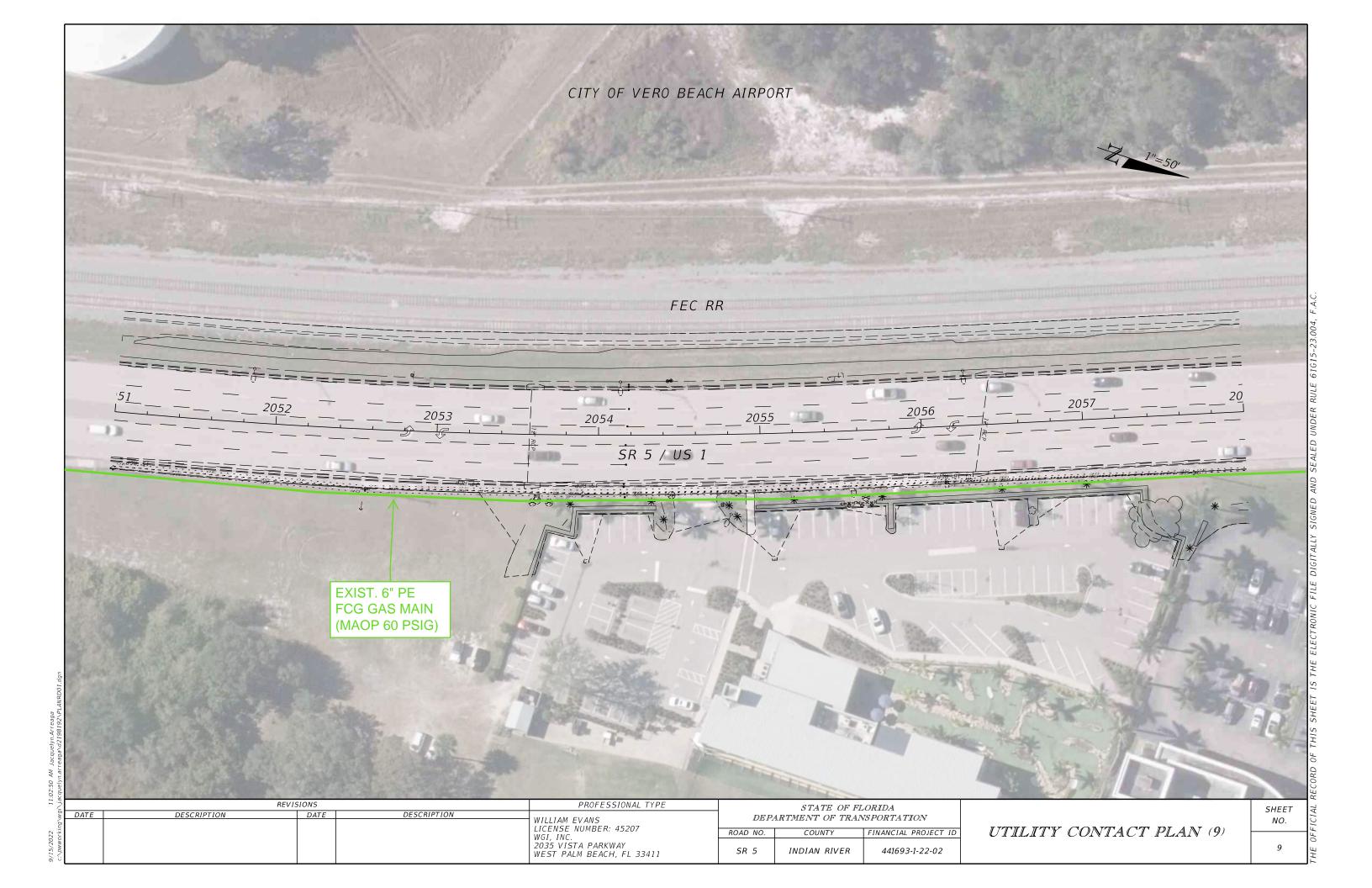
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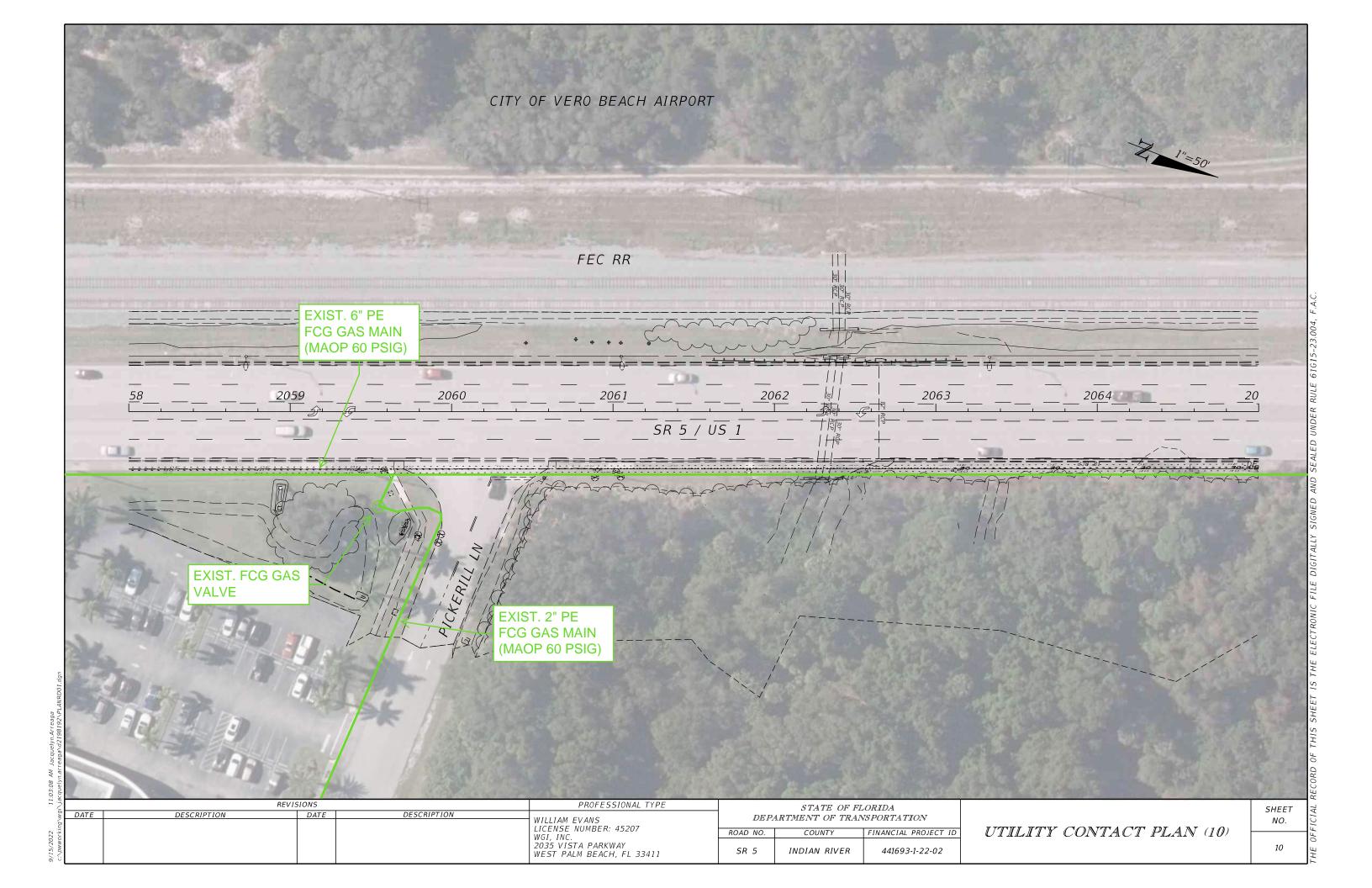


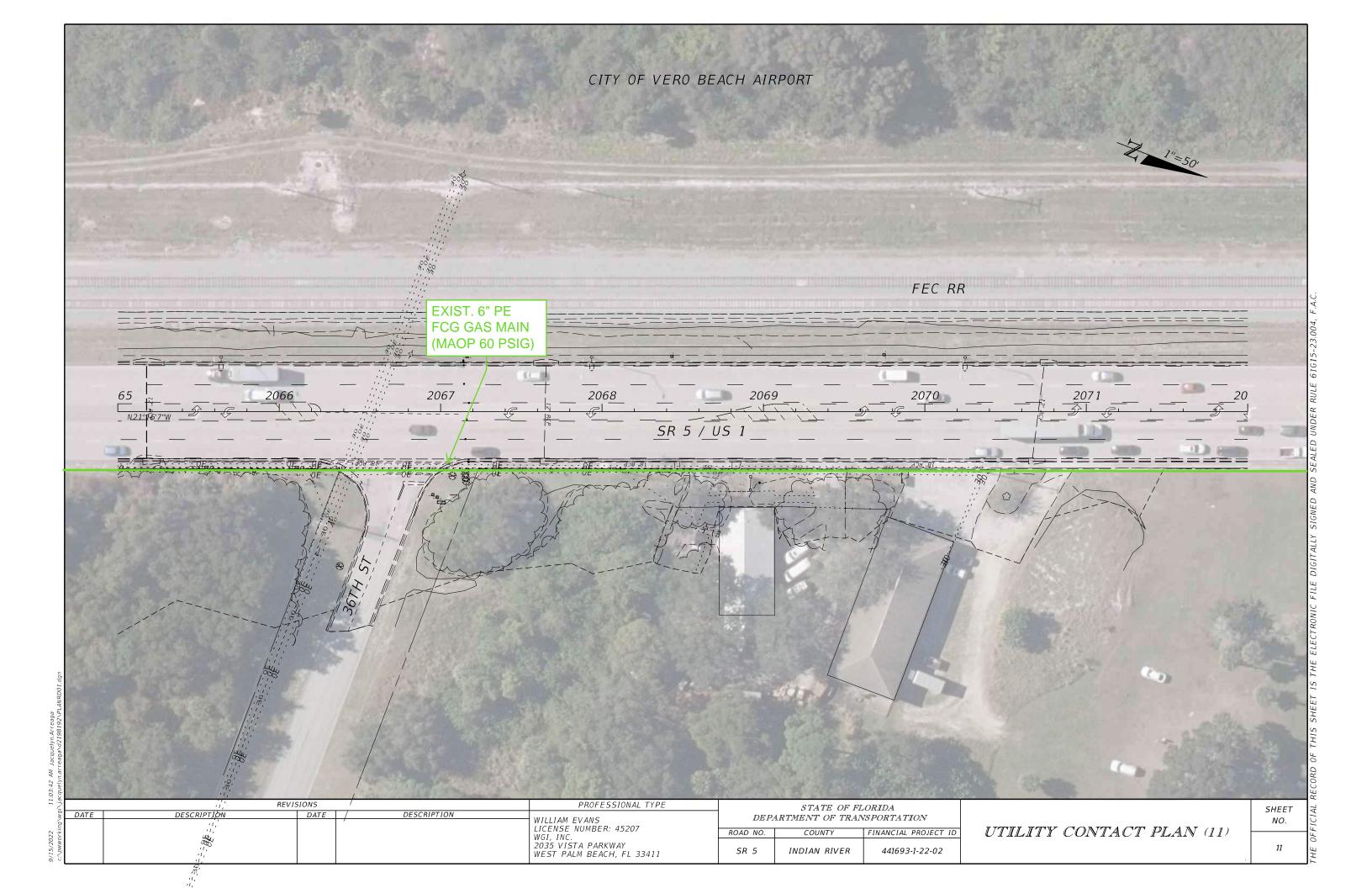


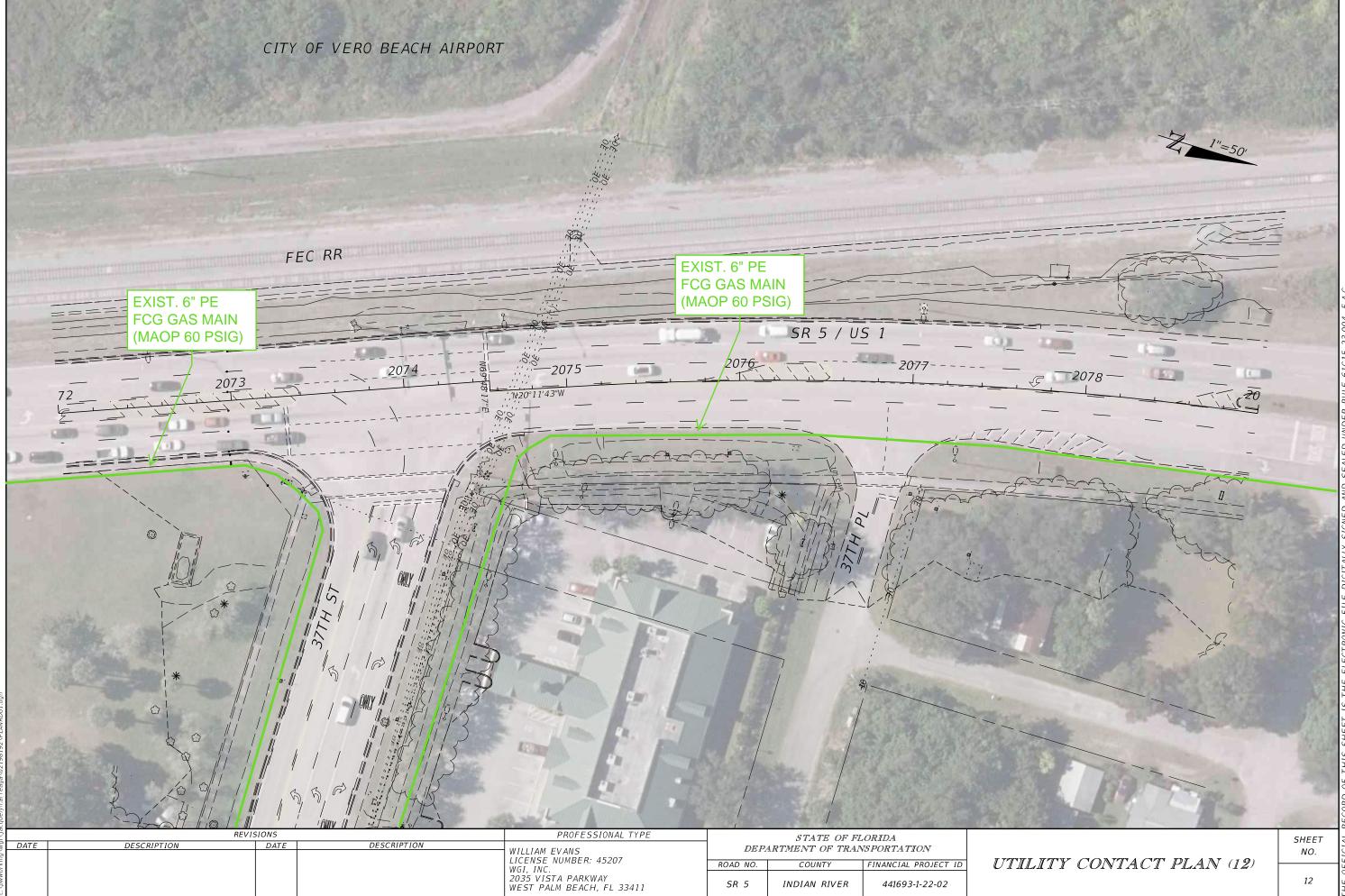


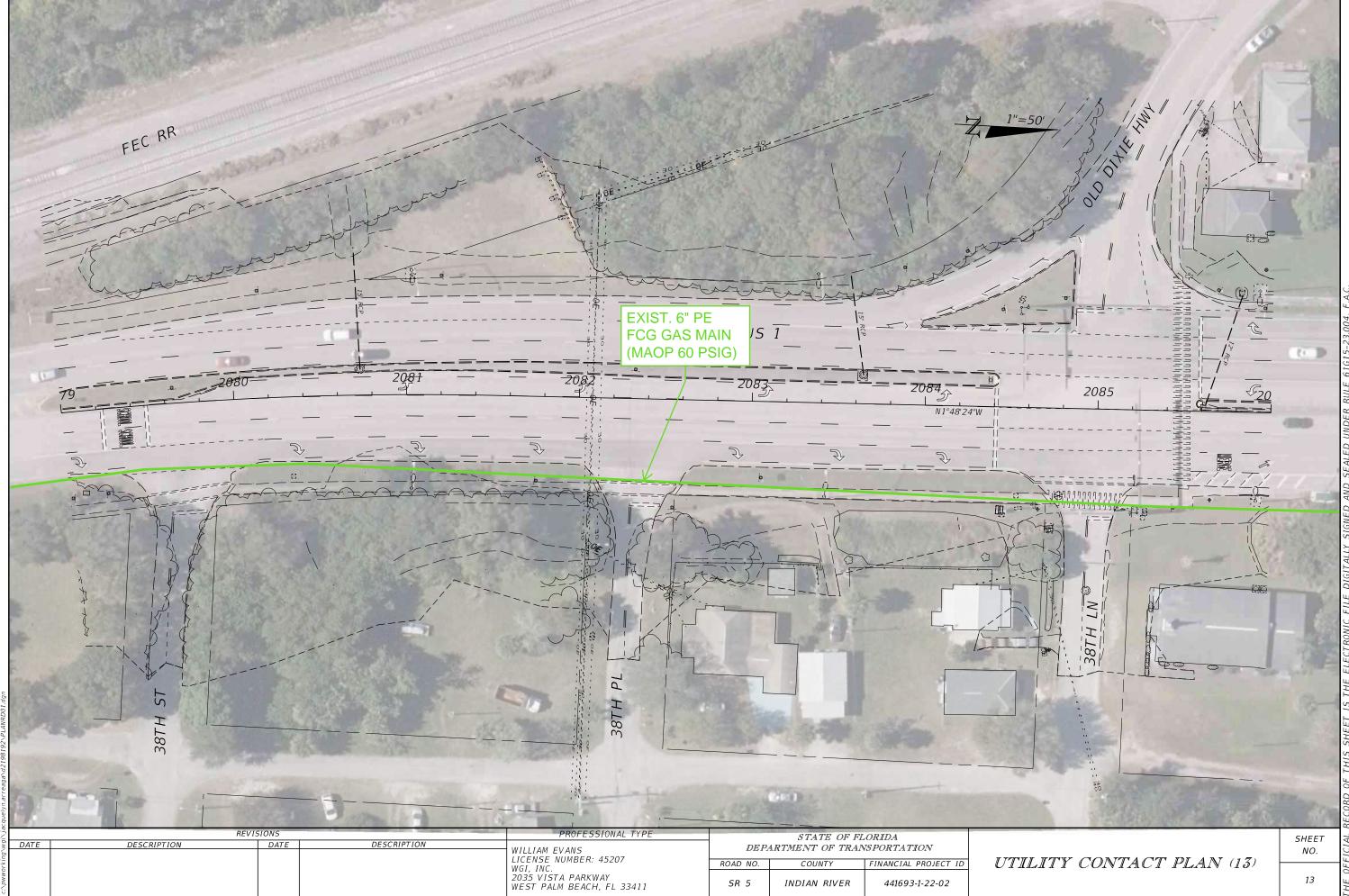














SR 5

INDIAN RIVER

441693-1-22-02

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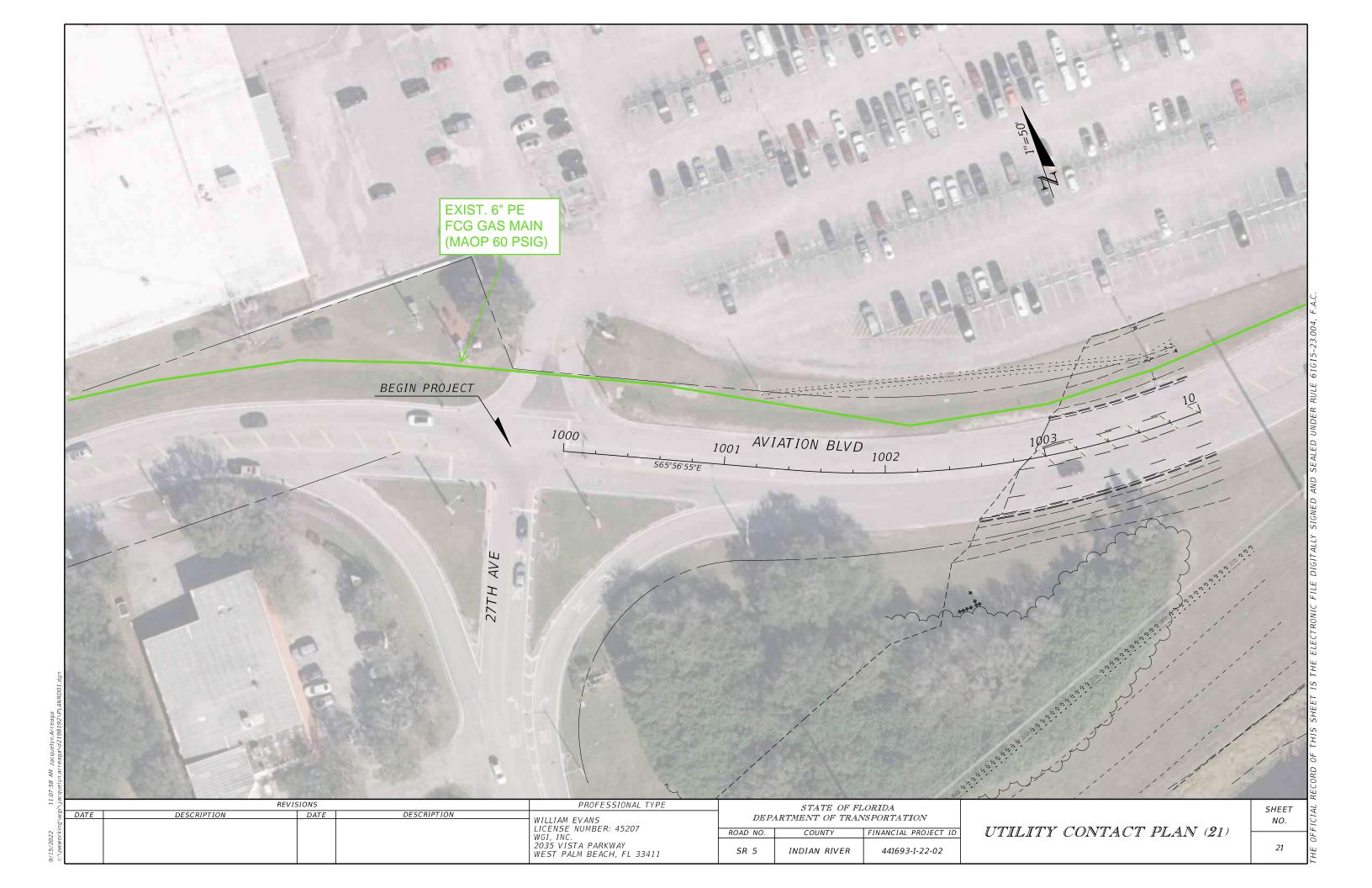
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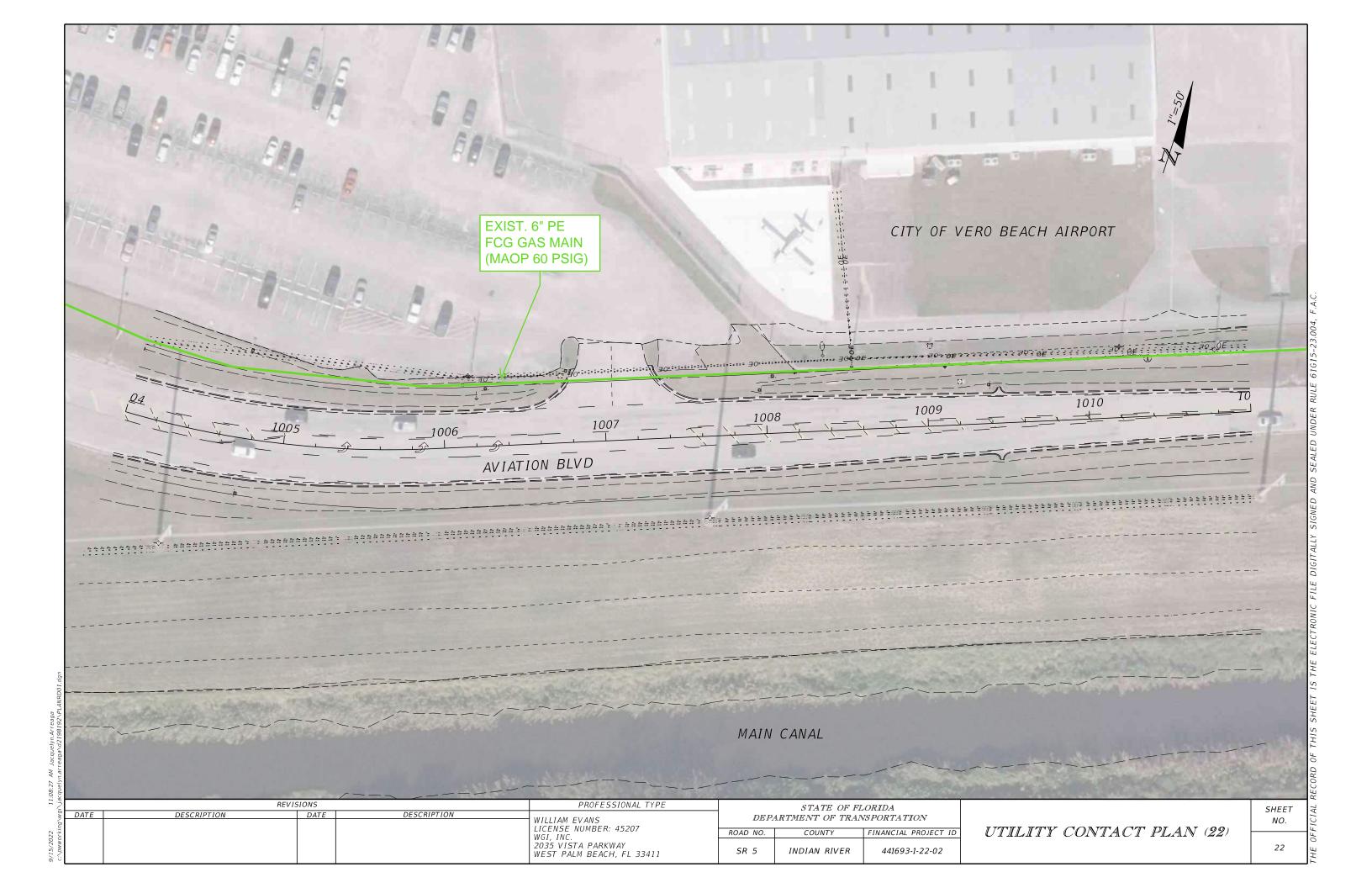
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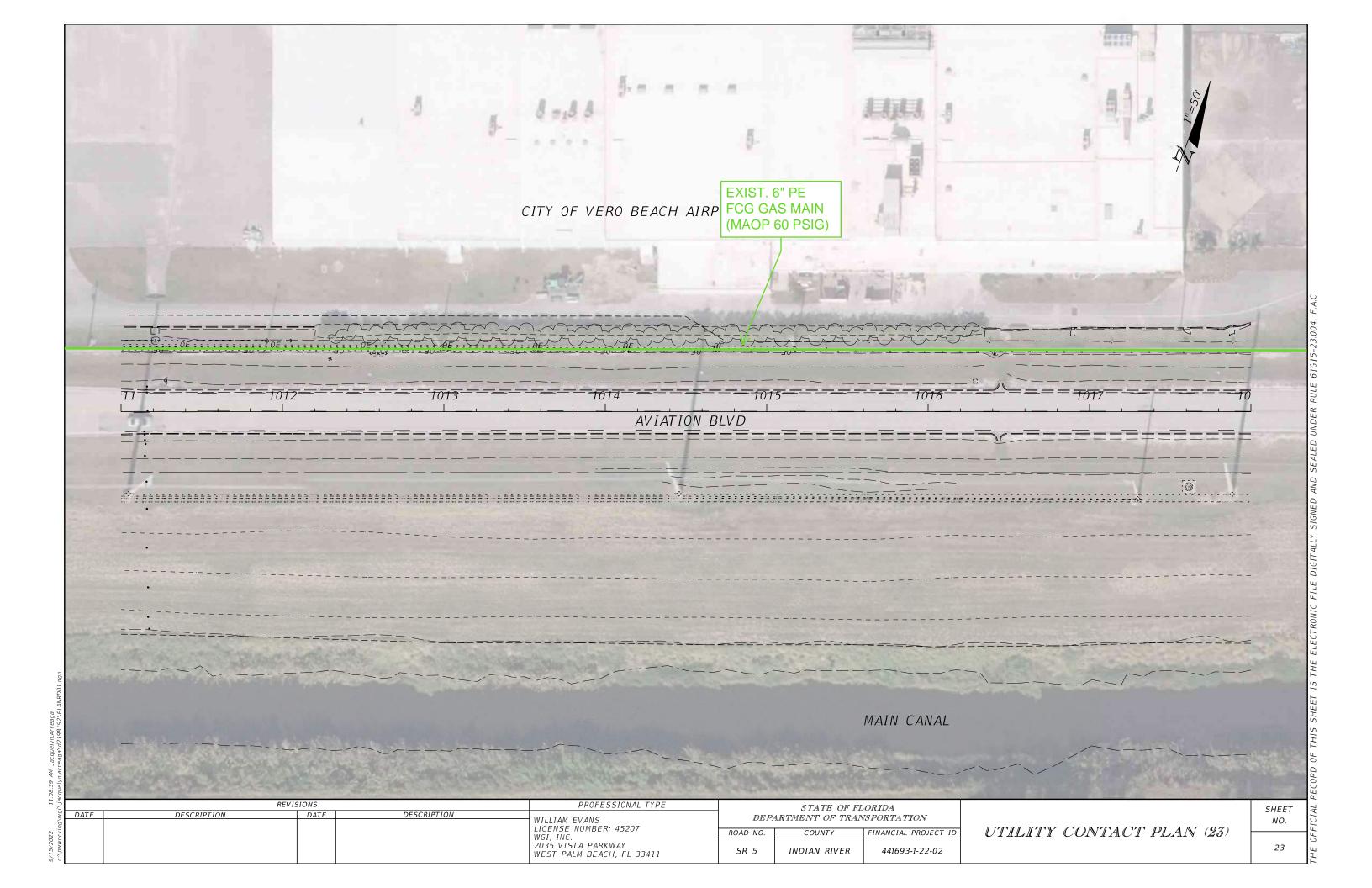


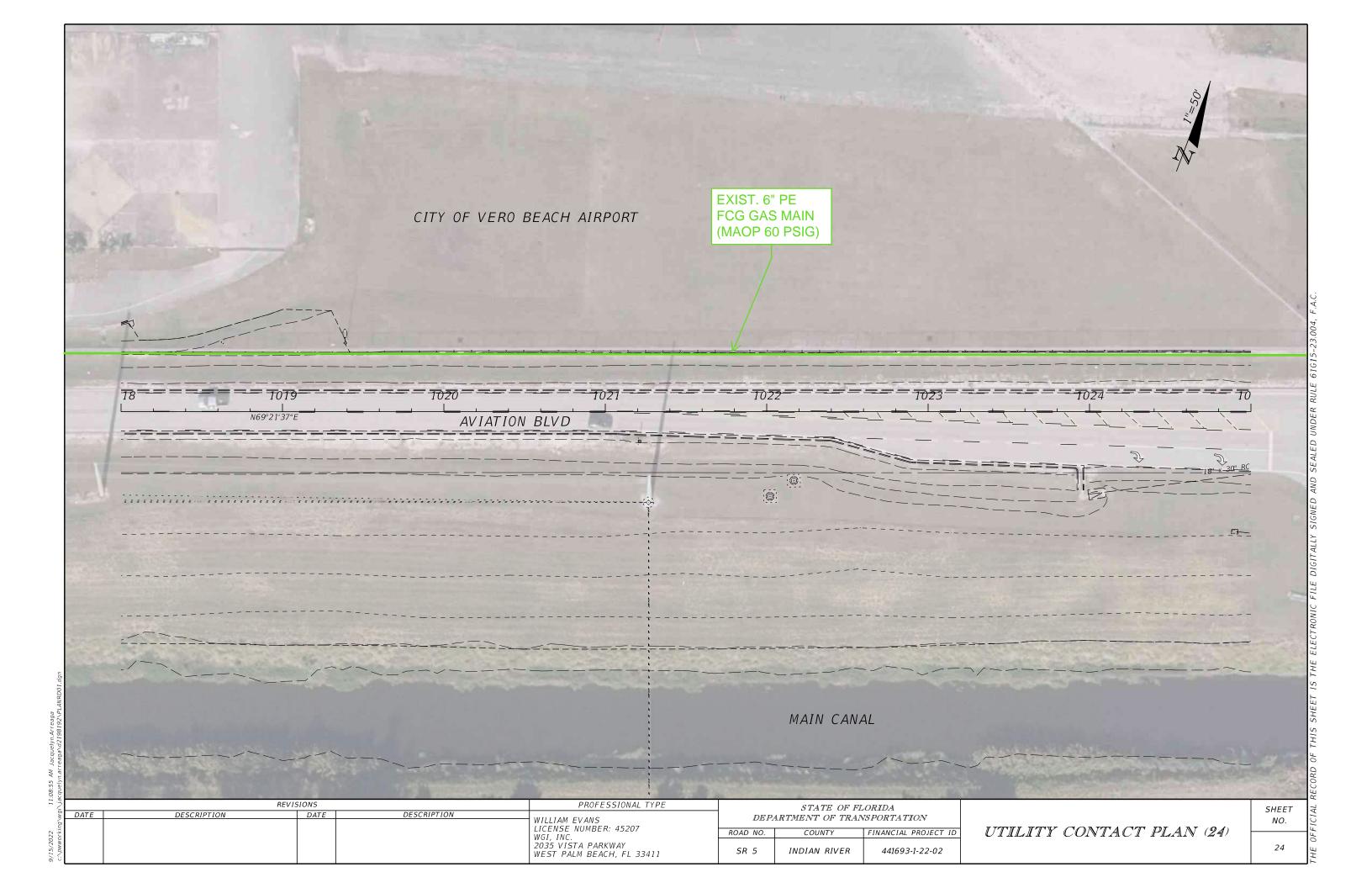


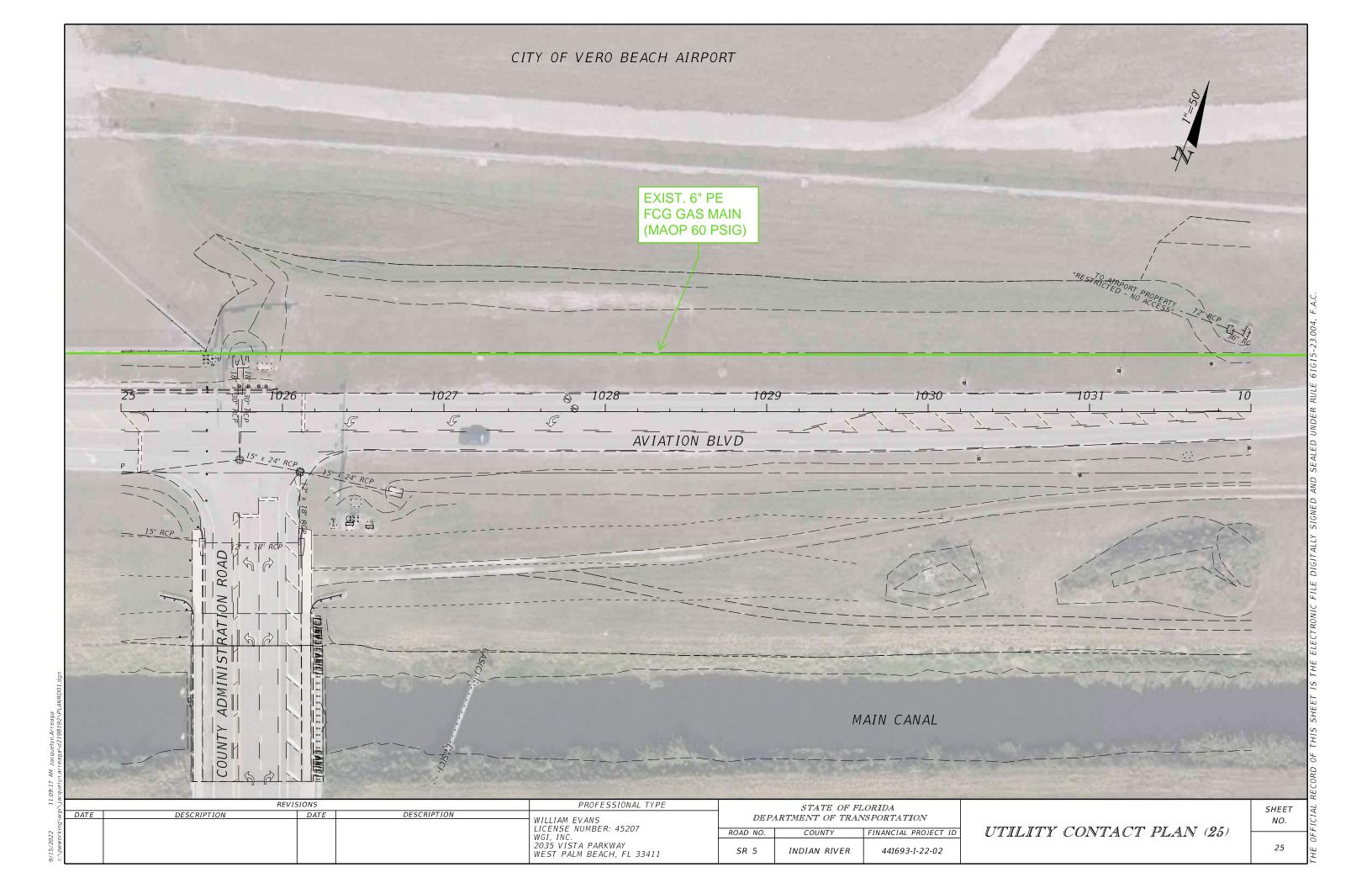


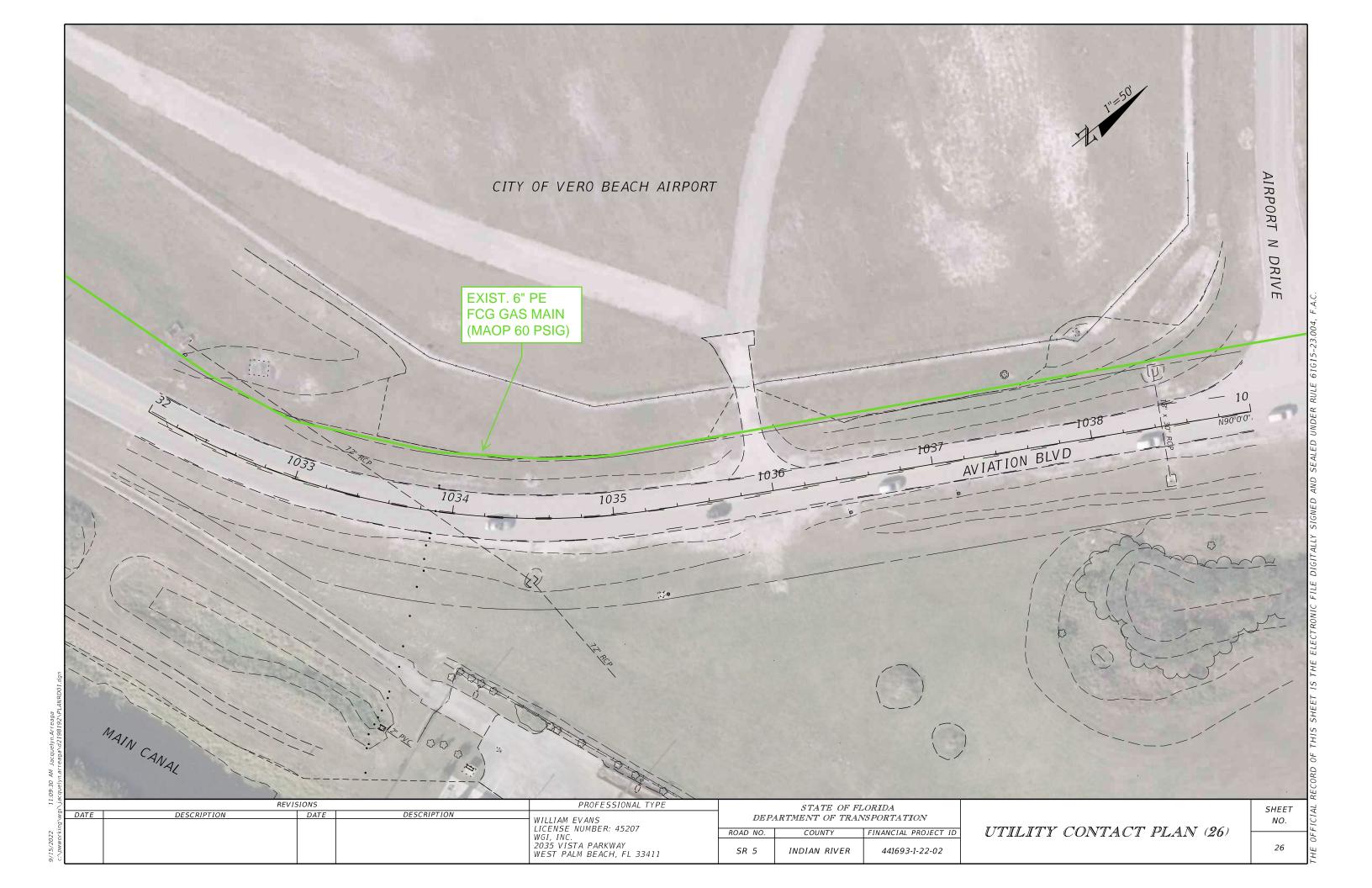


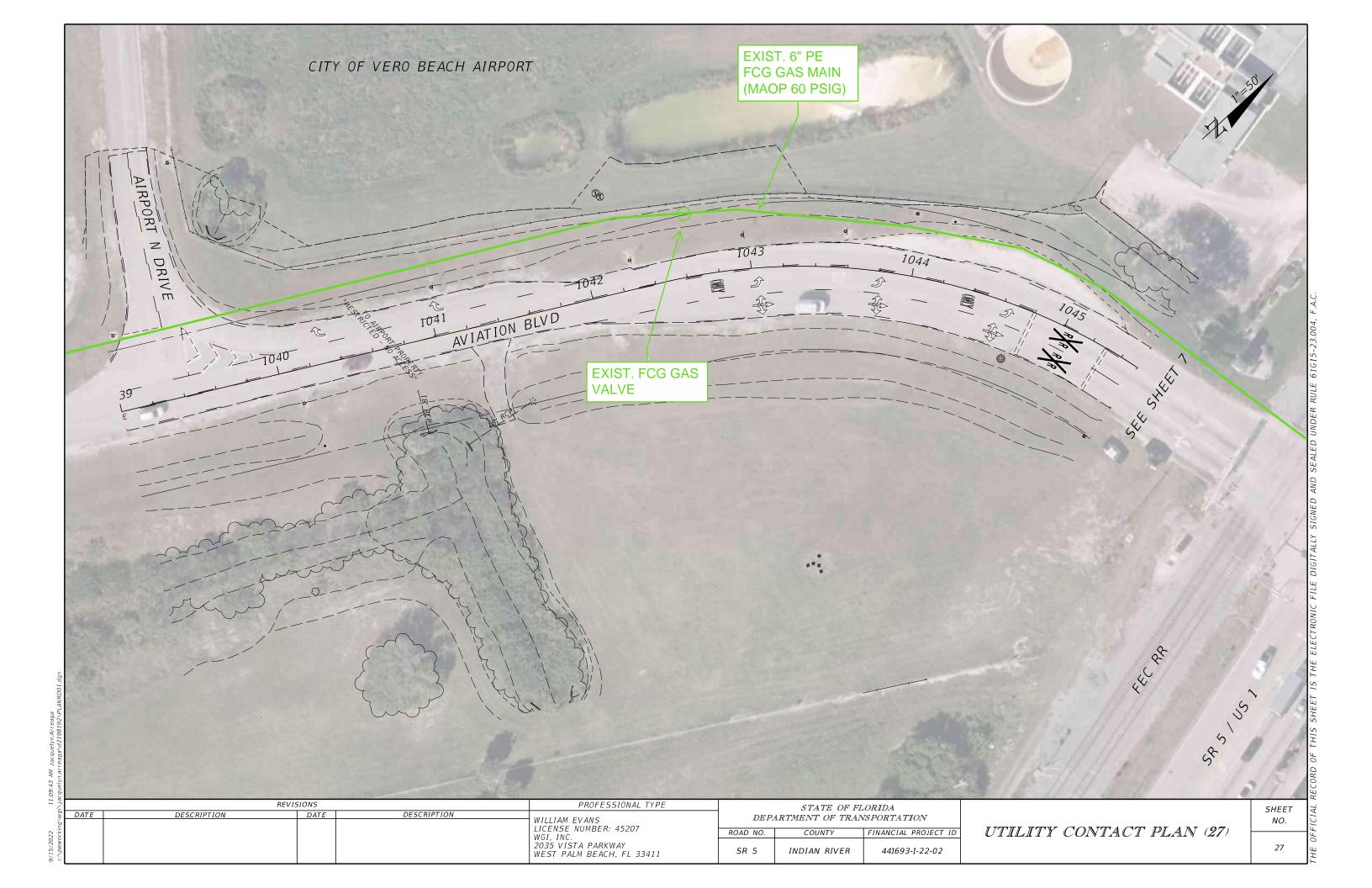








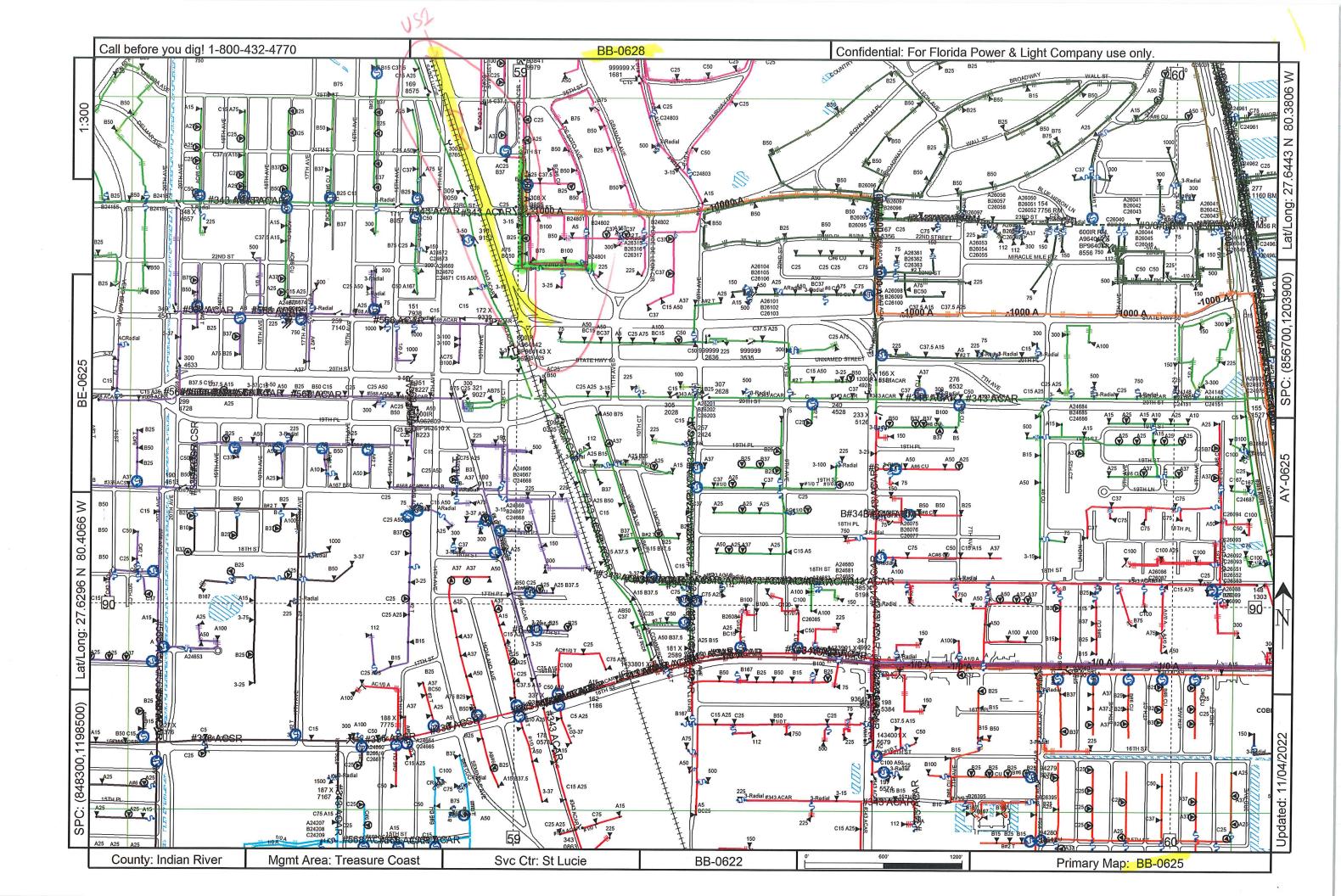


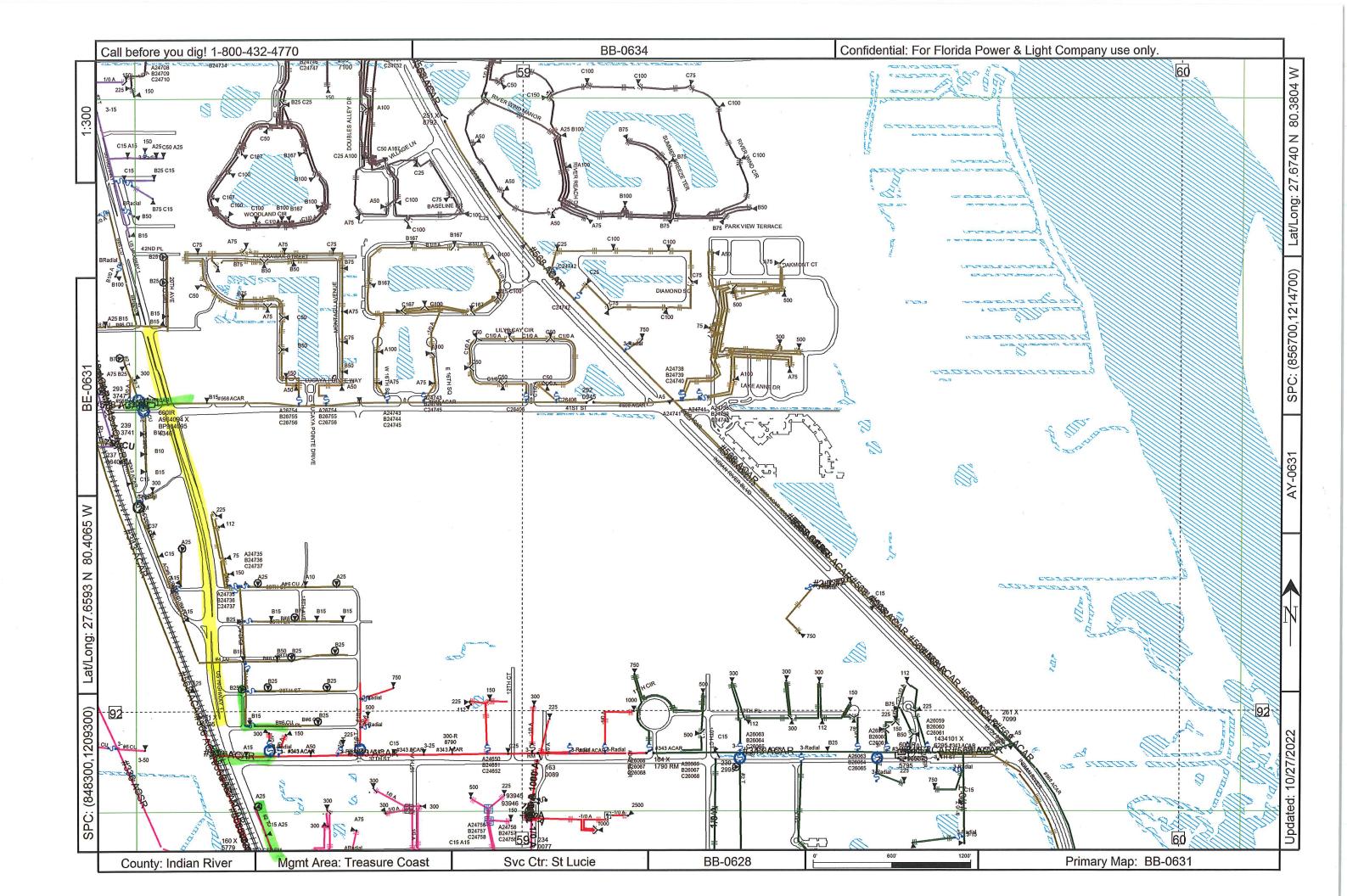


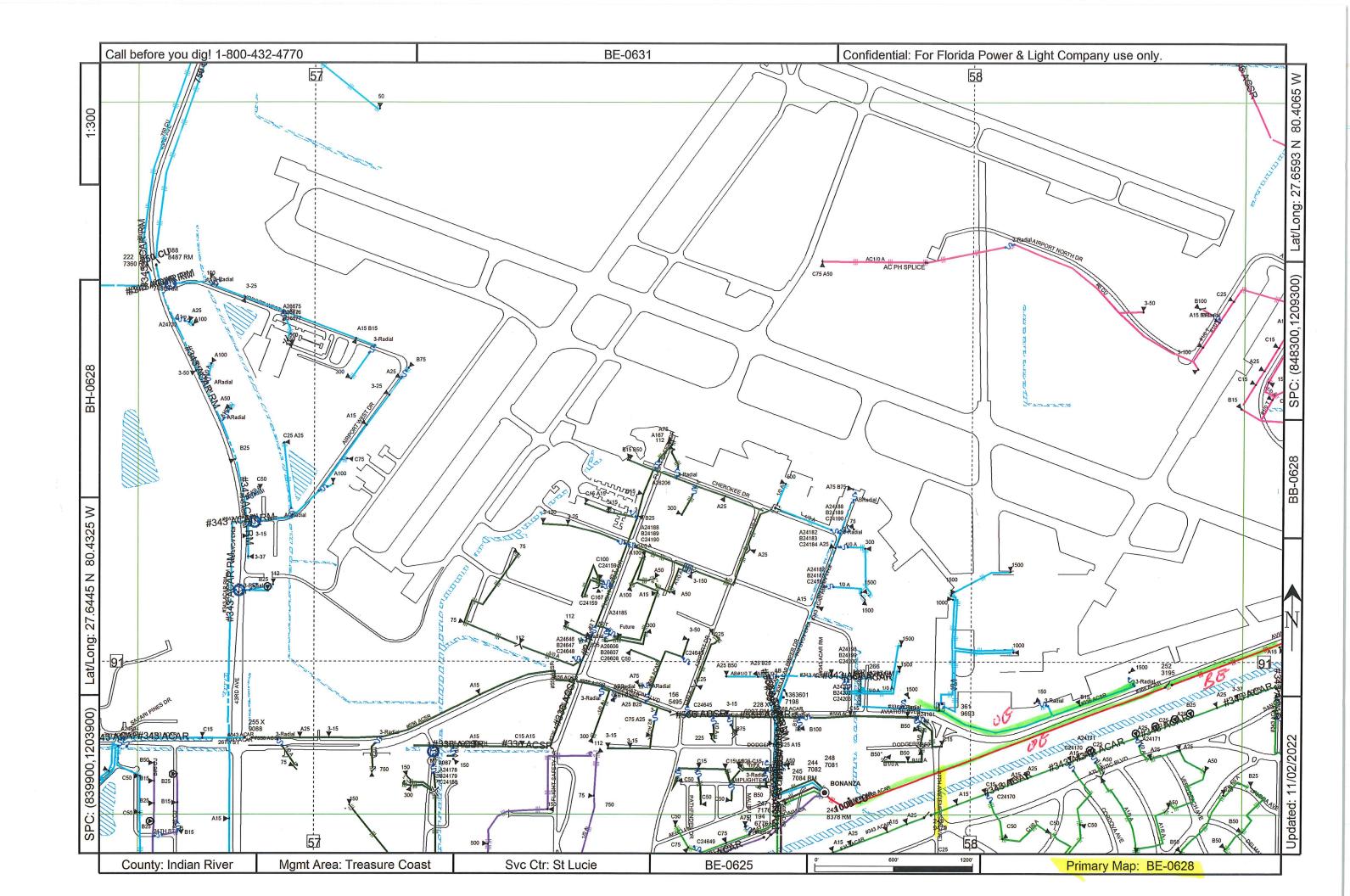
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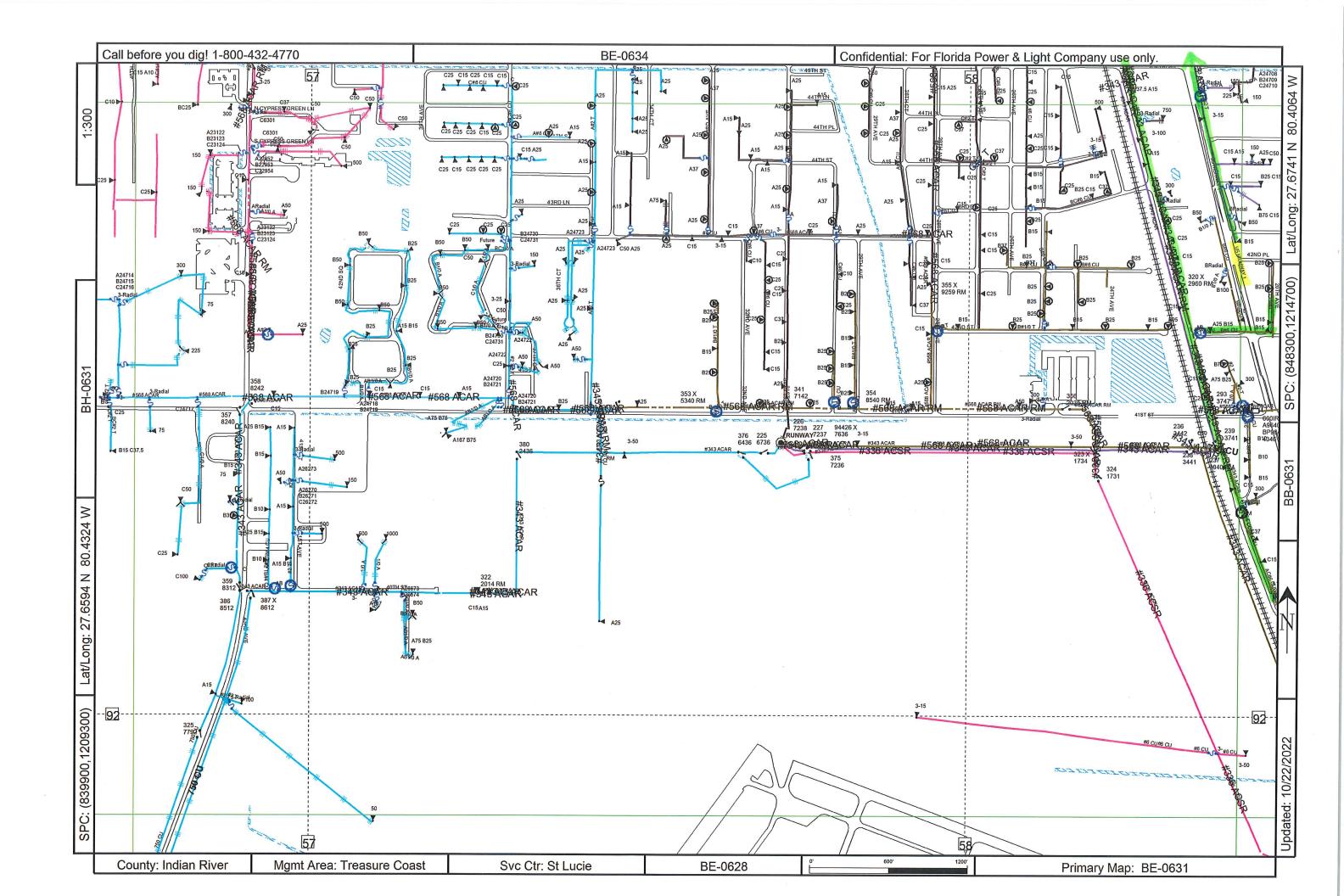
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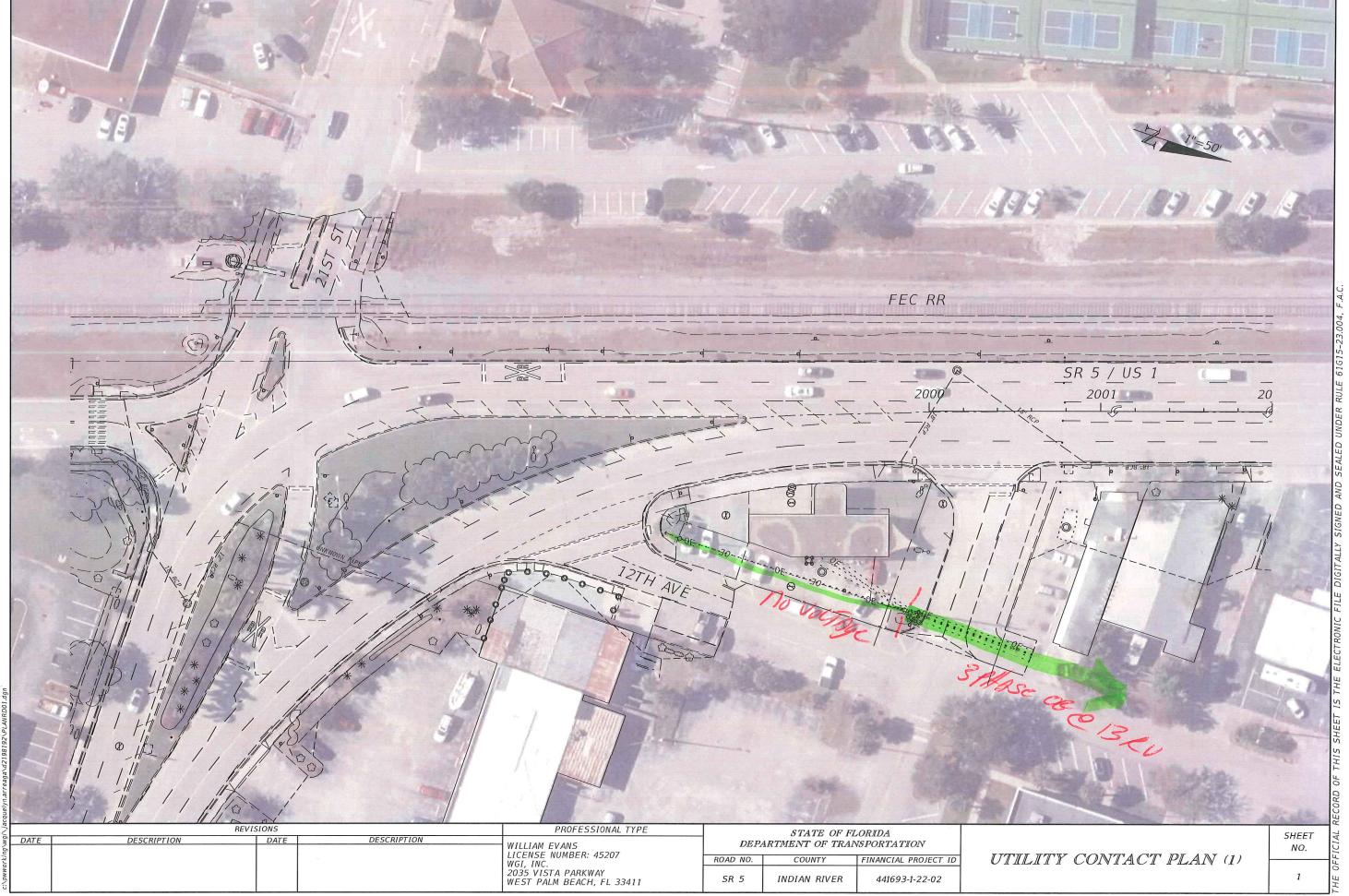
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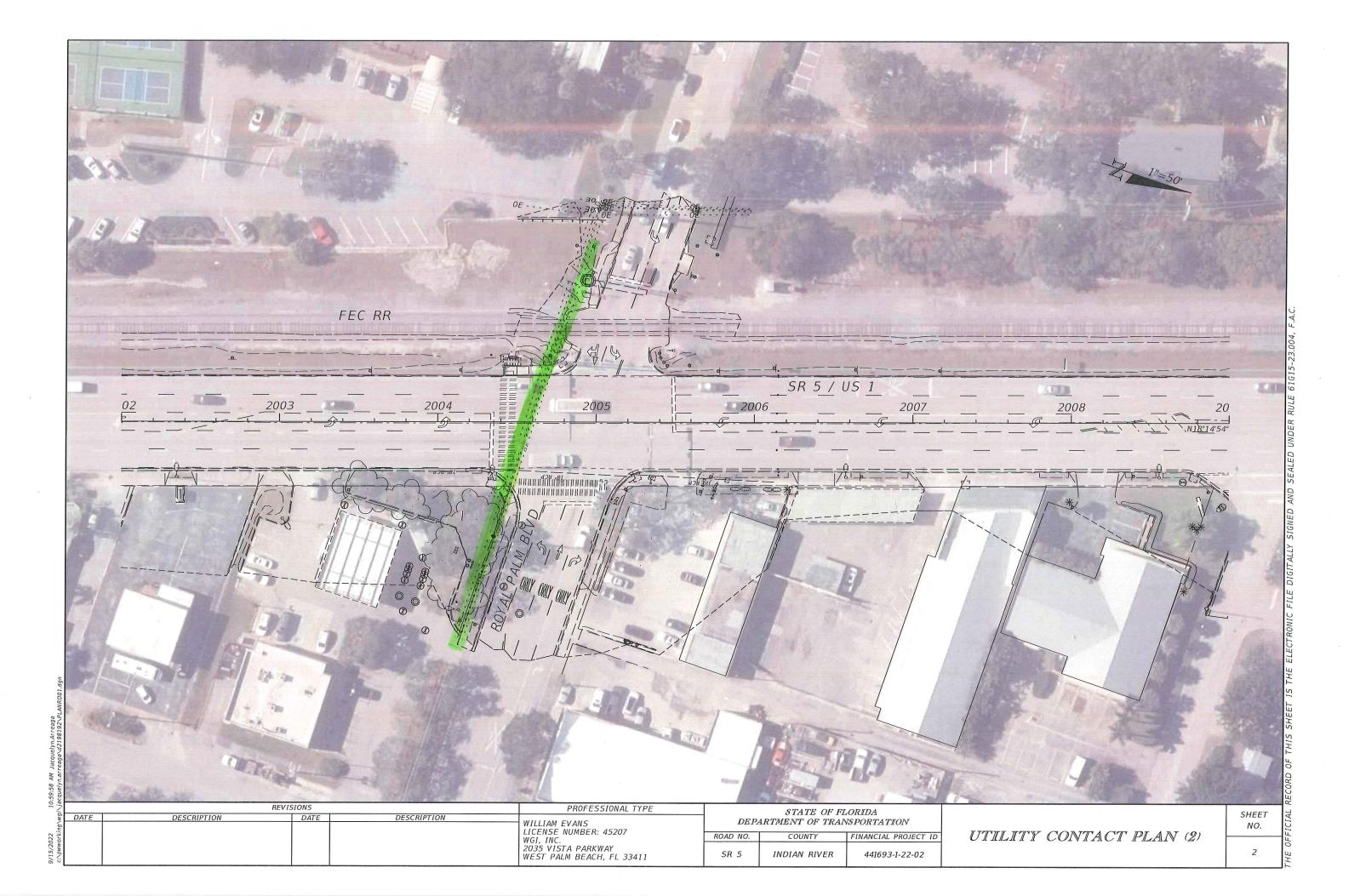


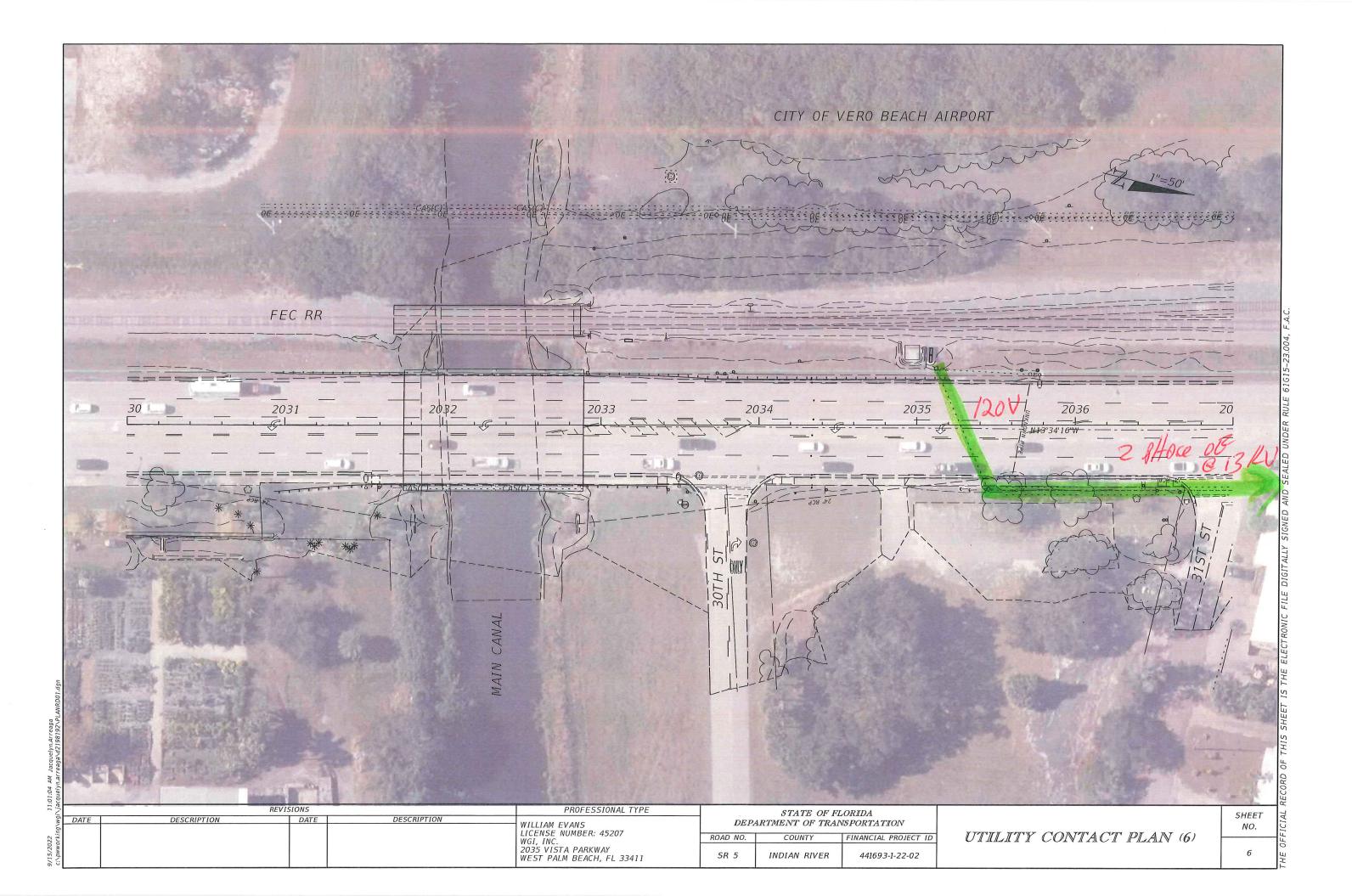


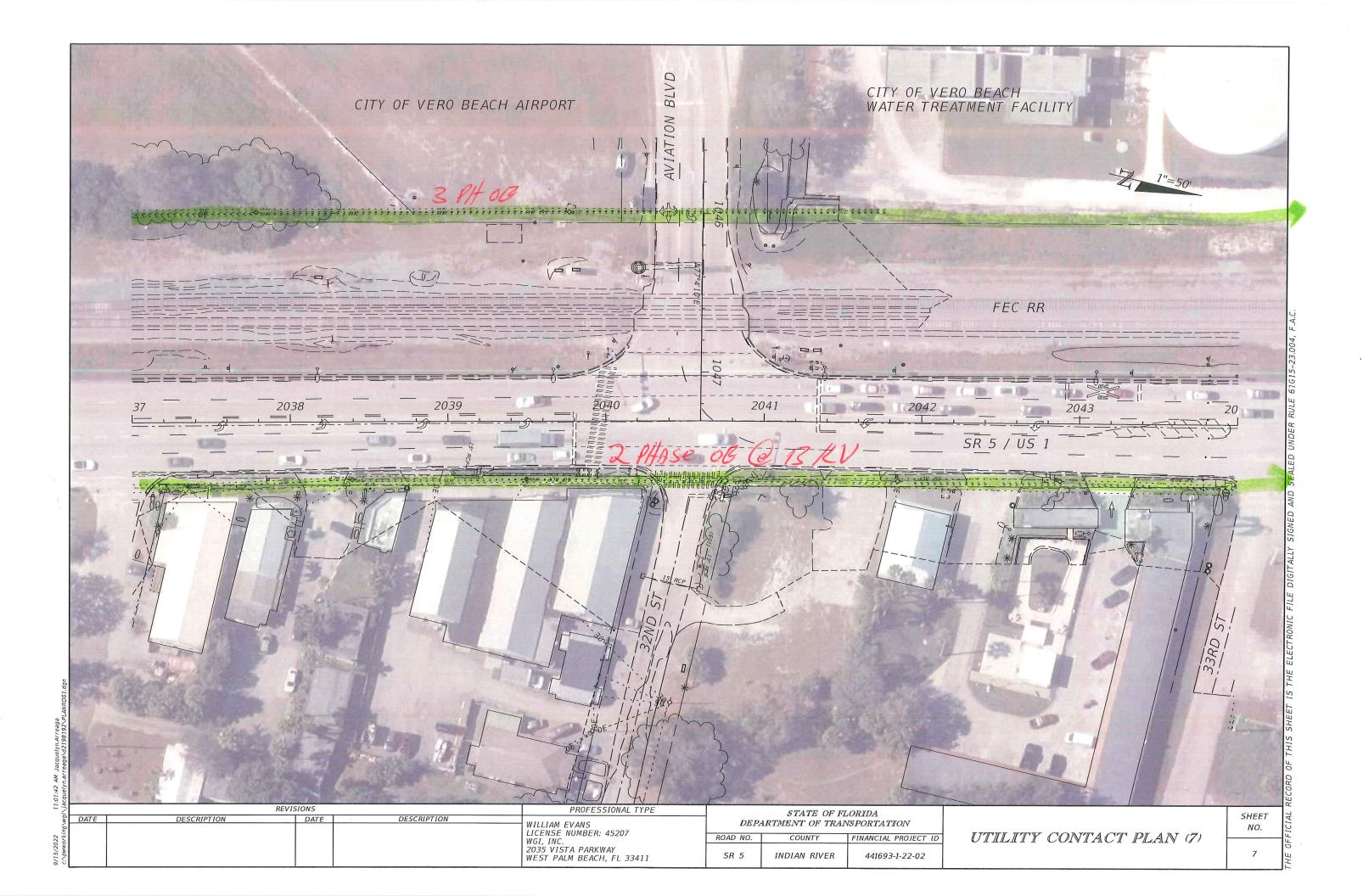


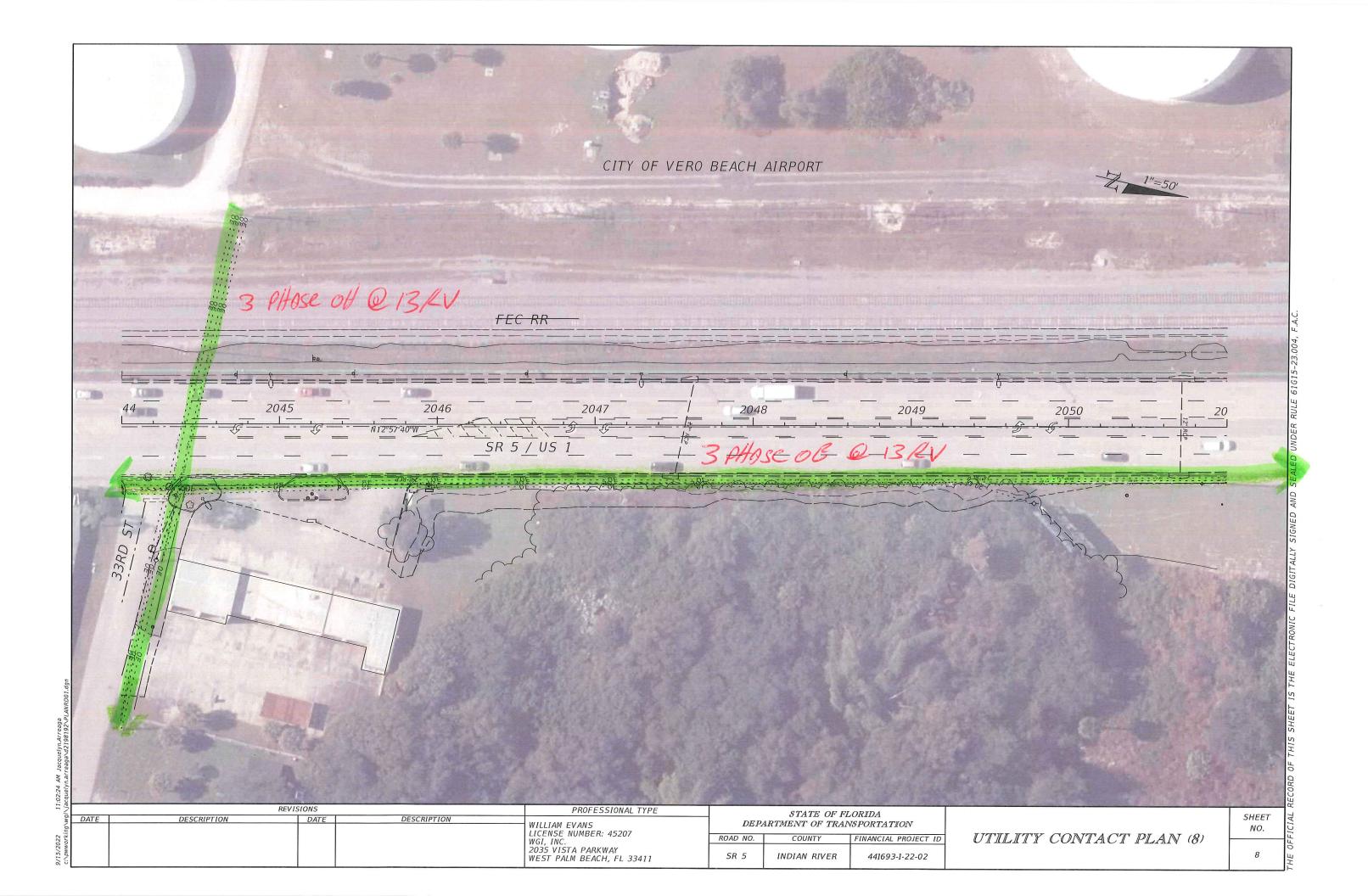


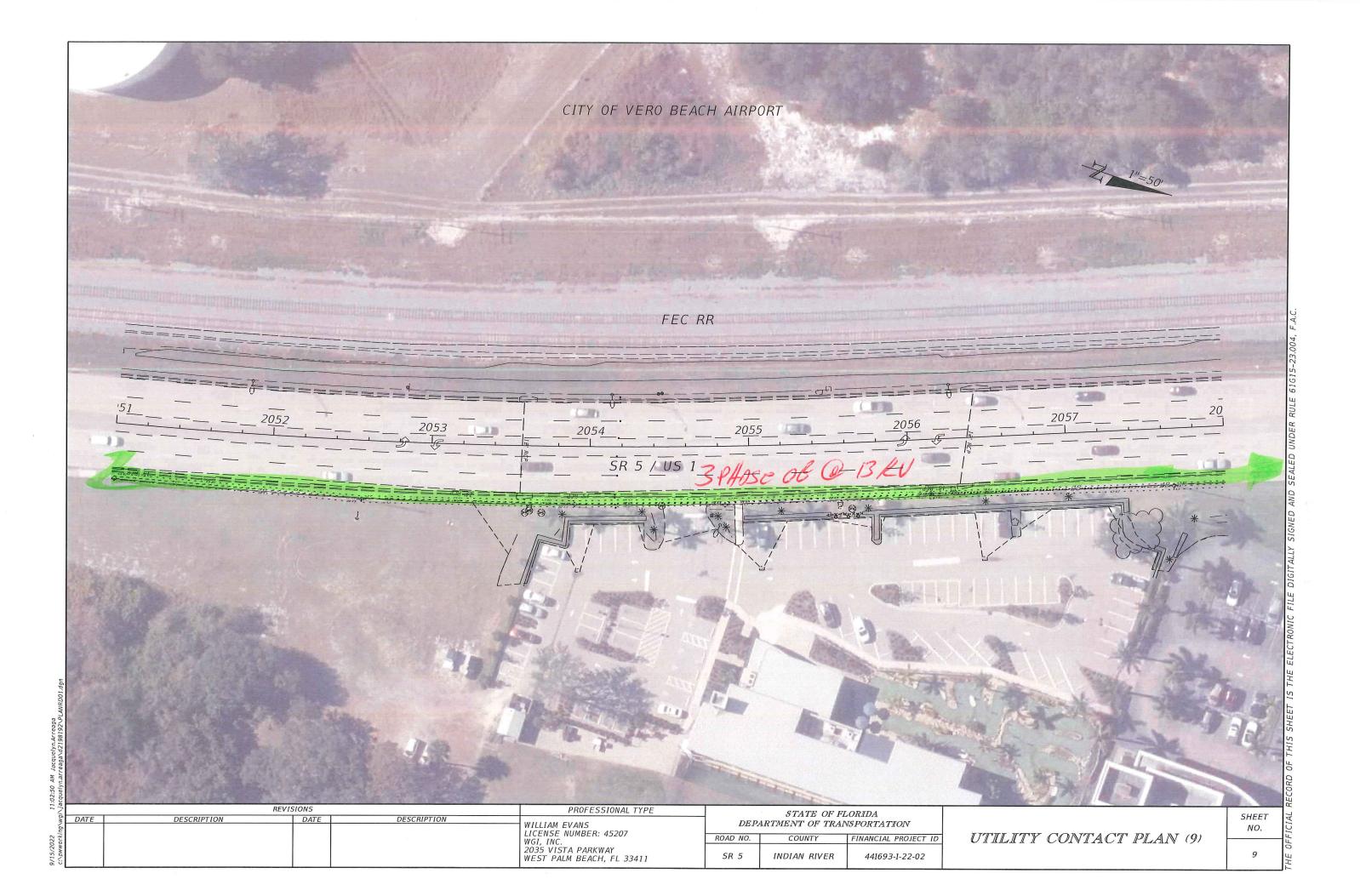
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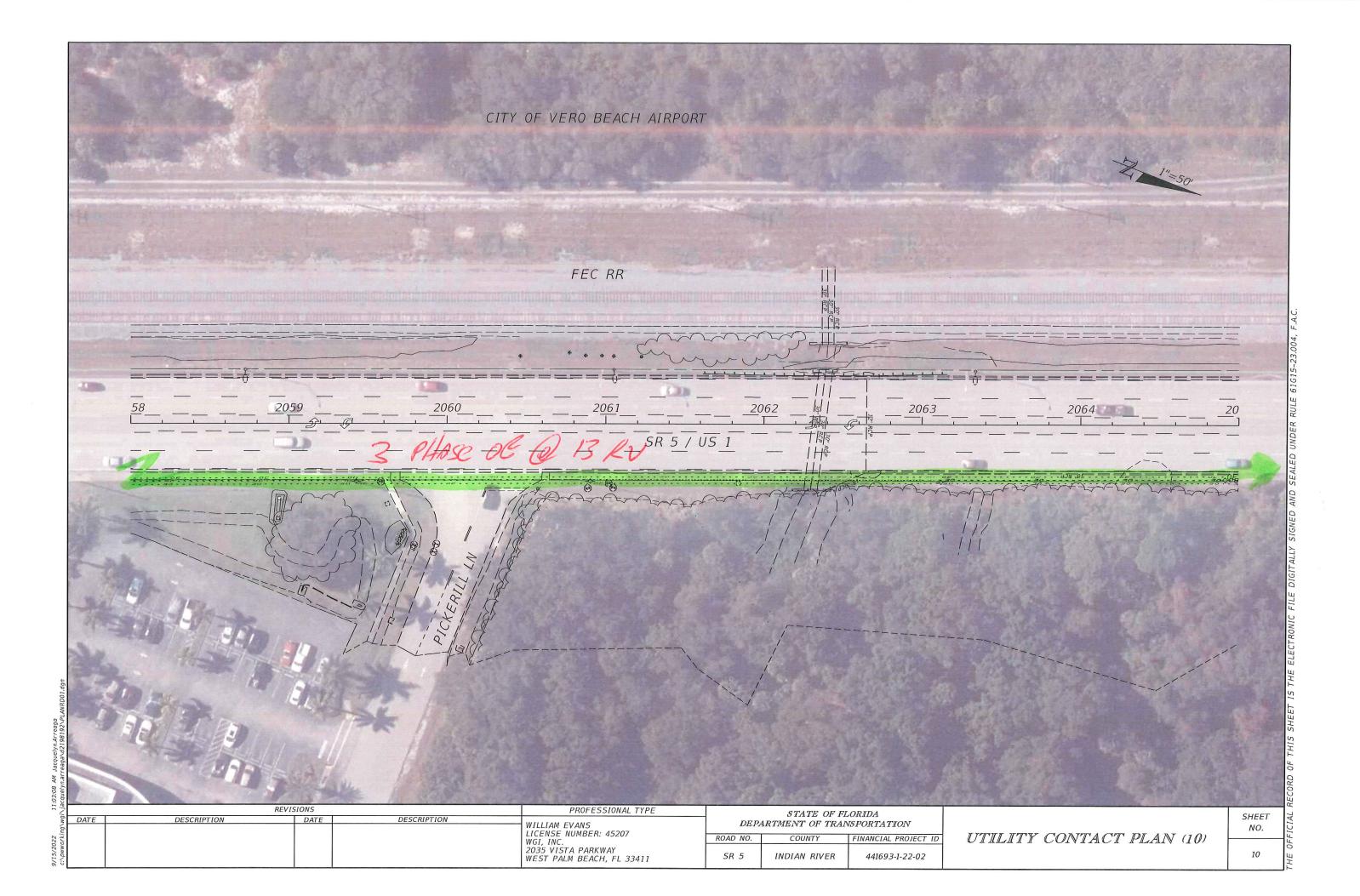


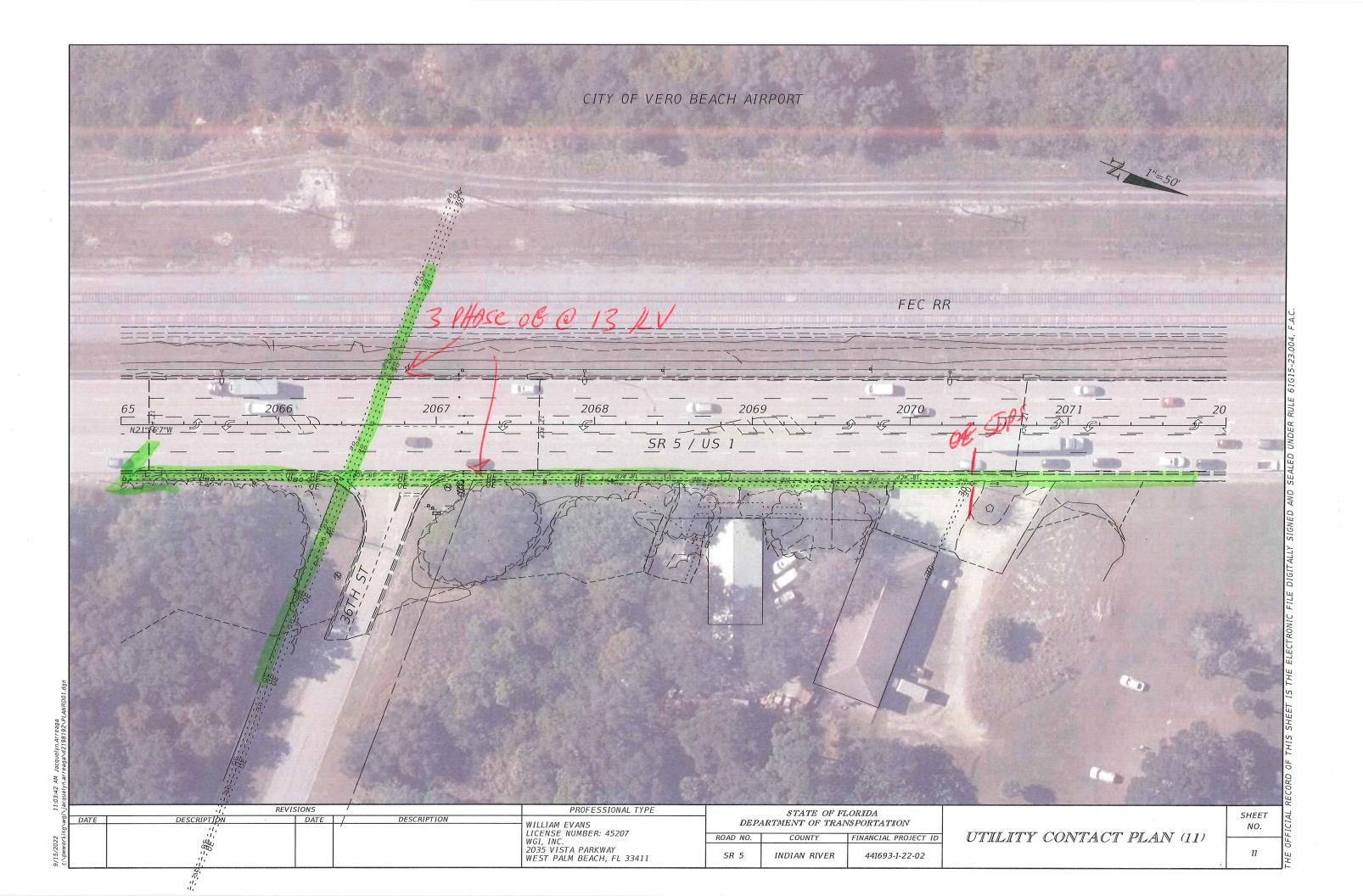


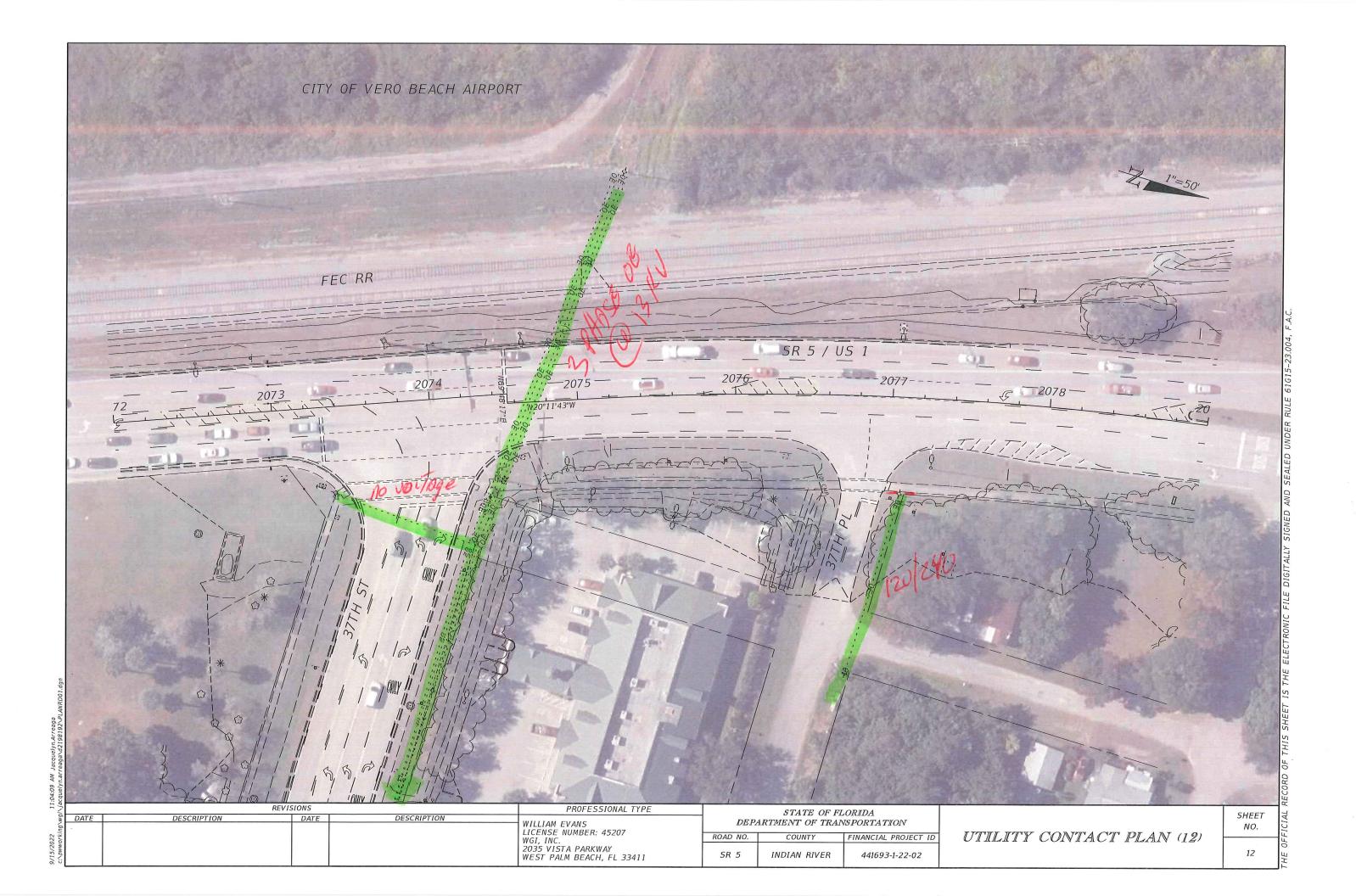


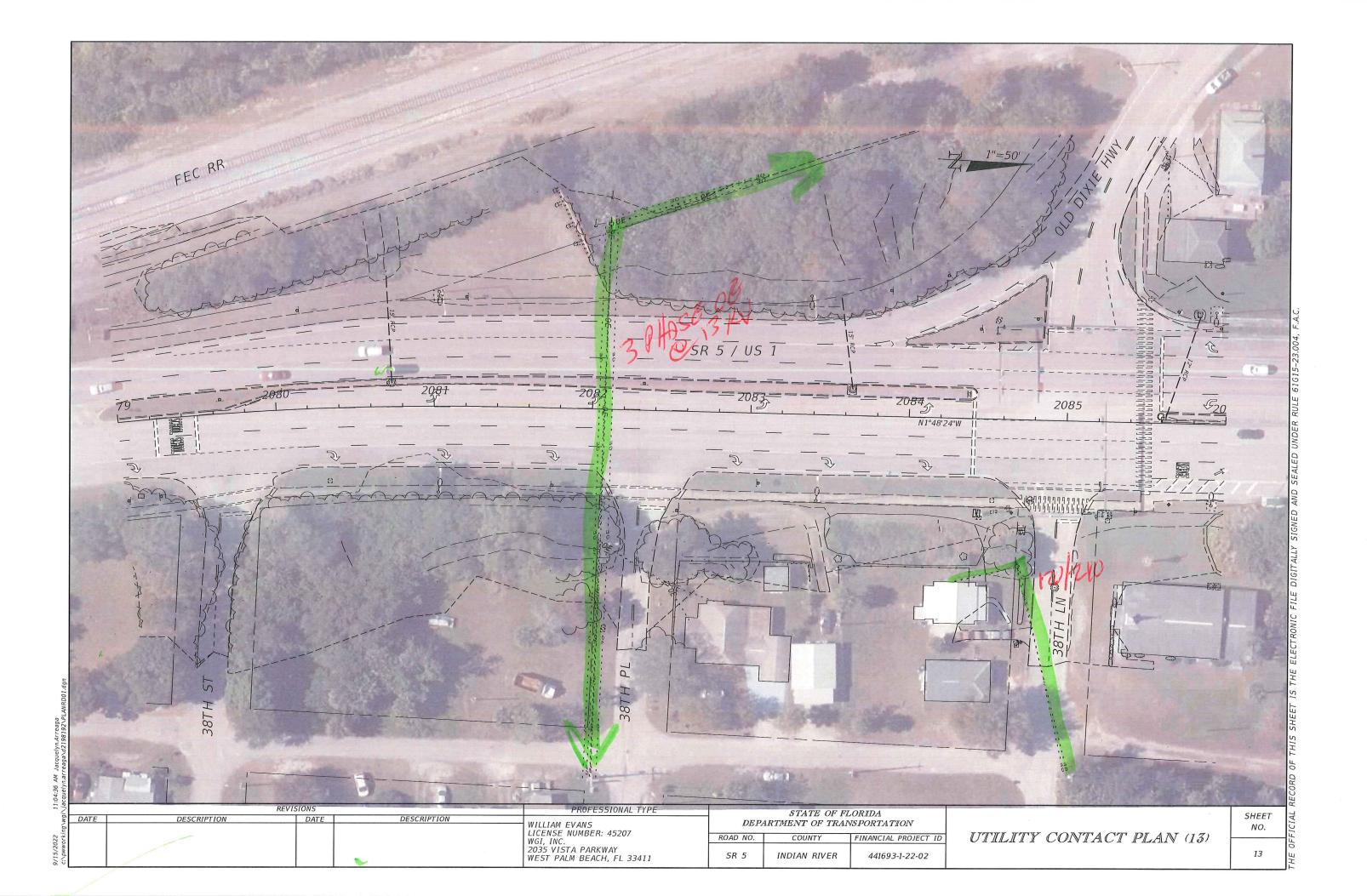






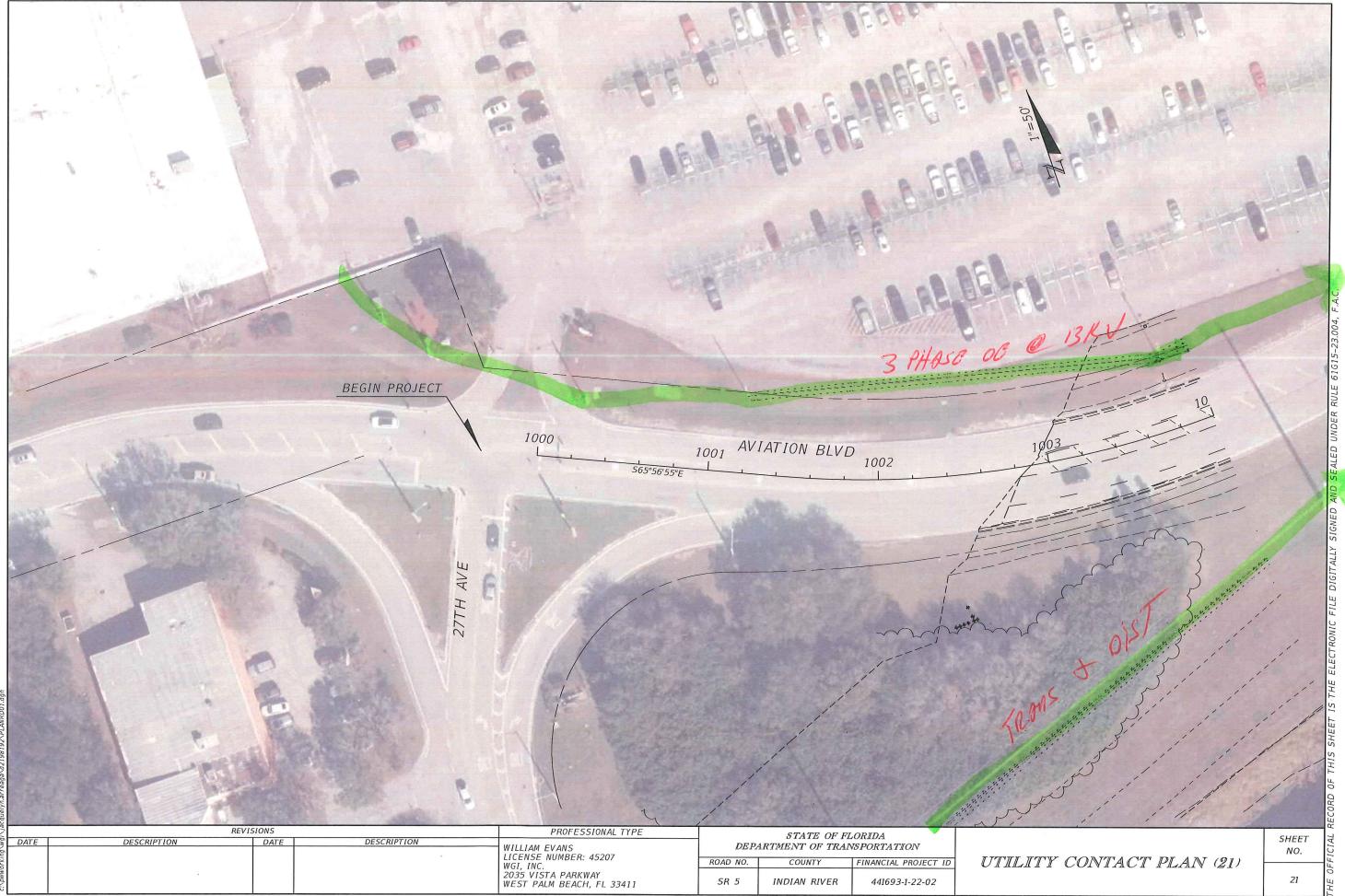






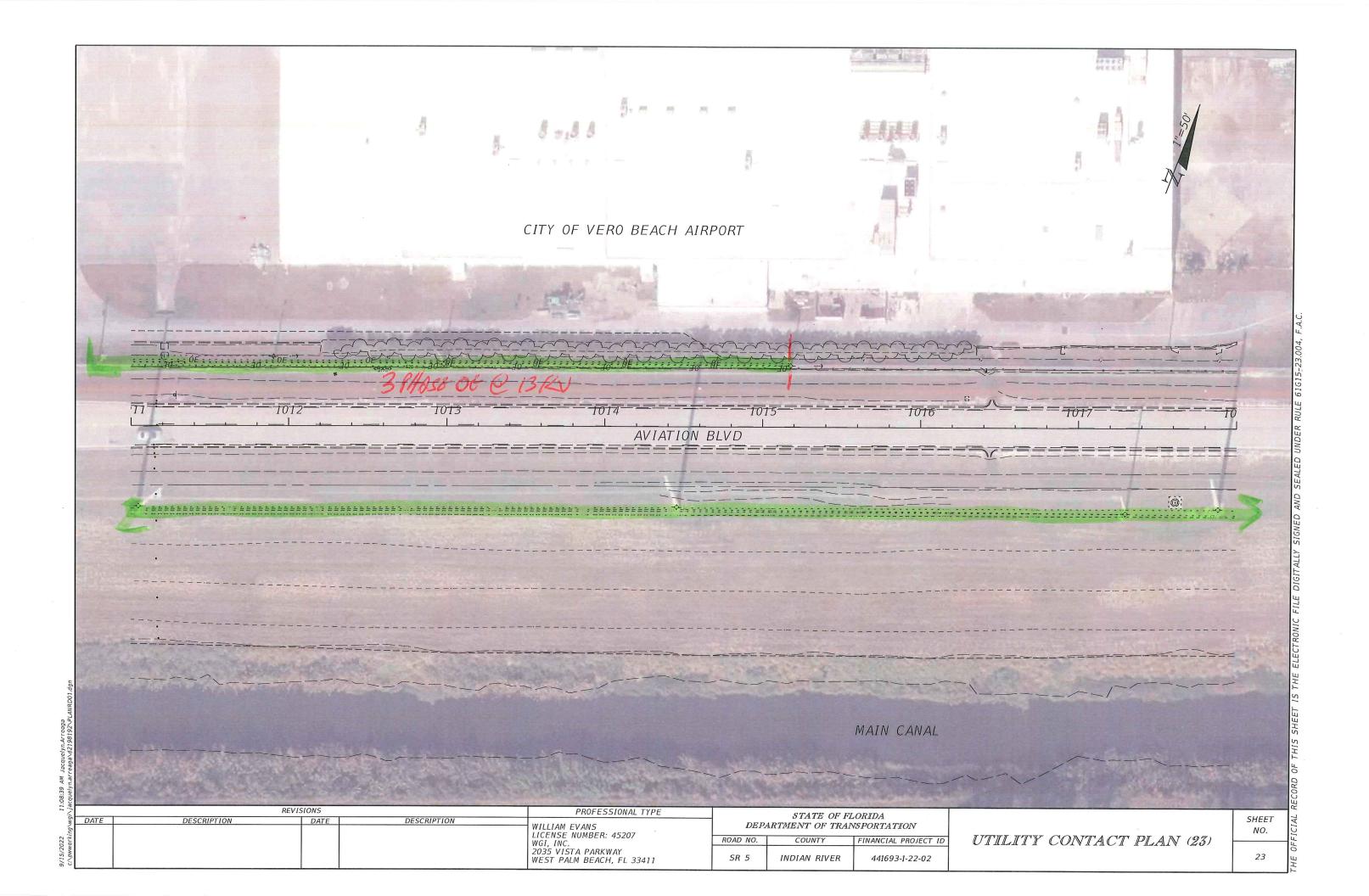


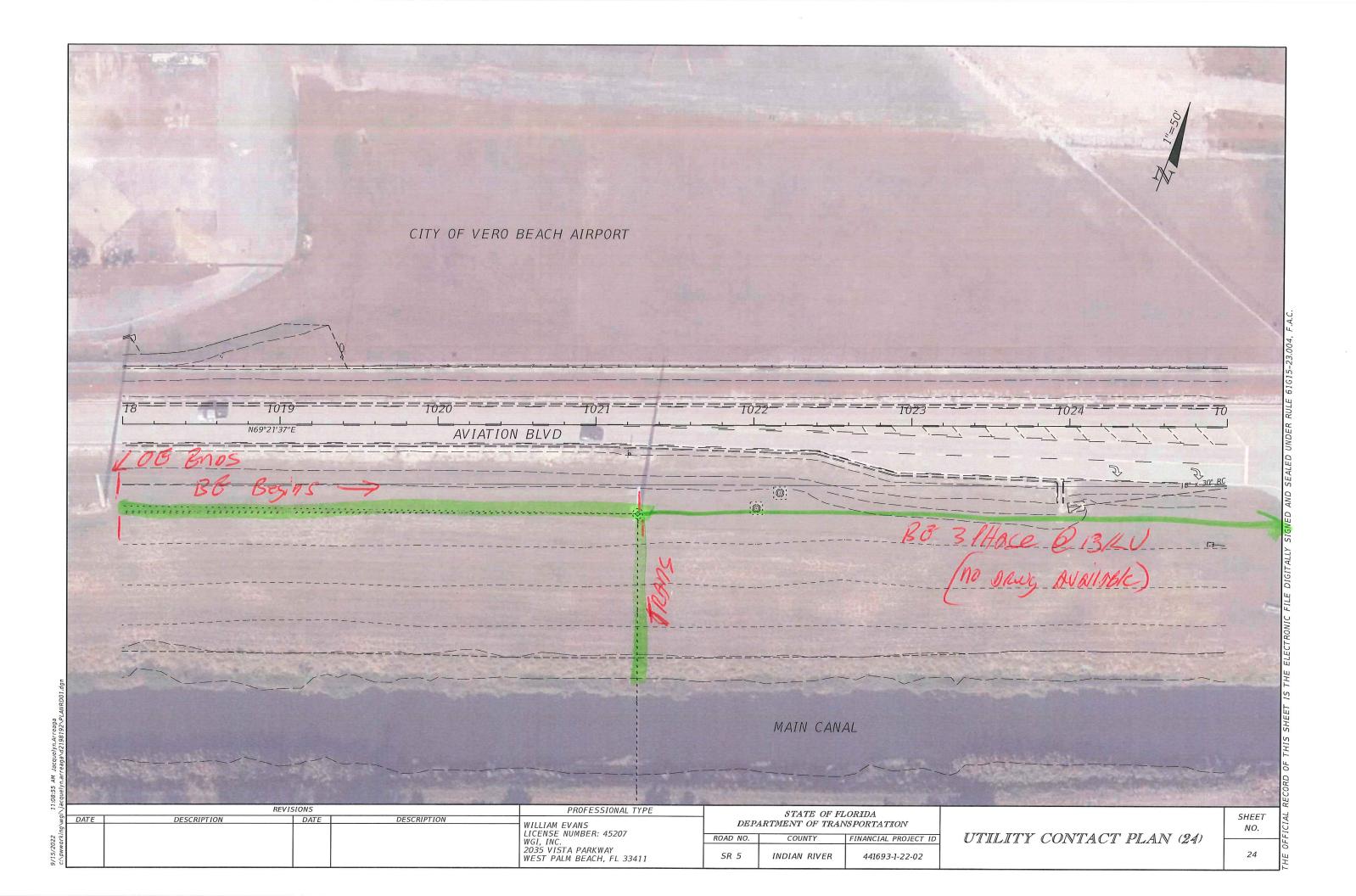


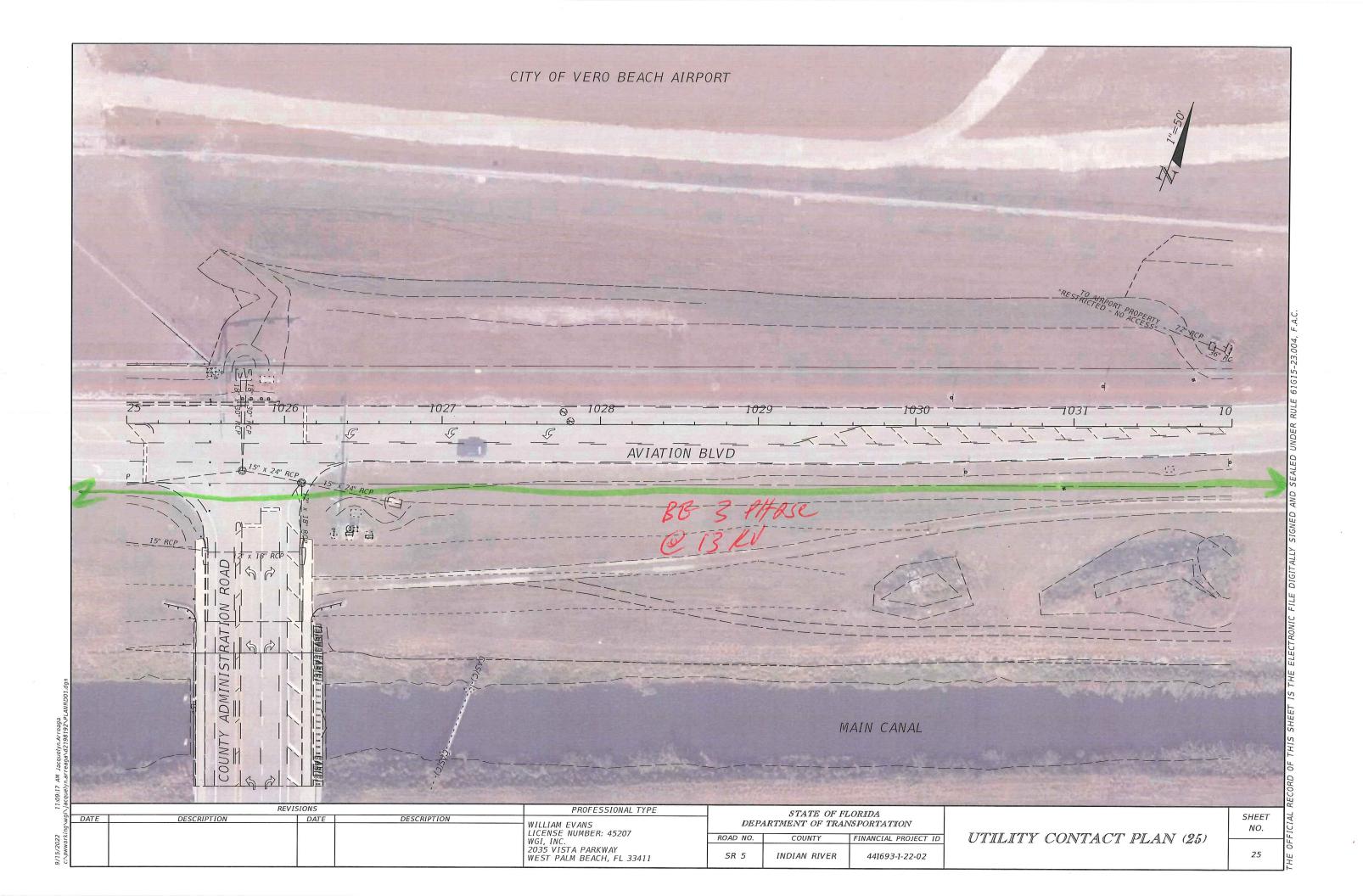


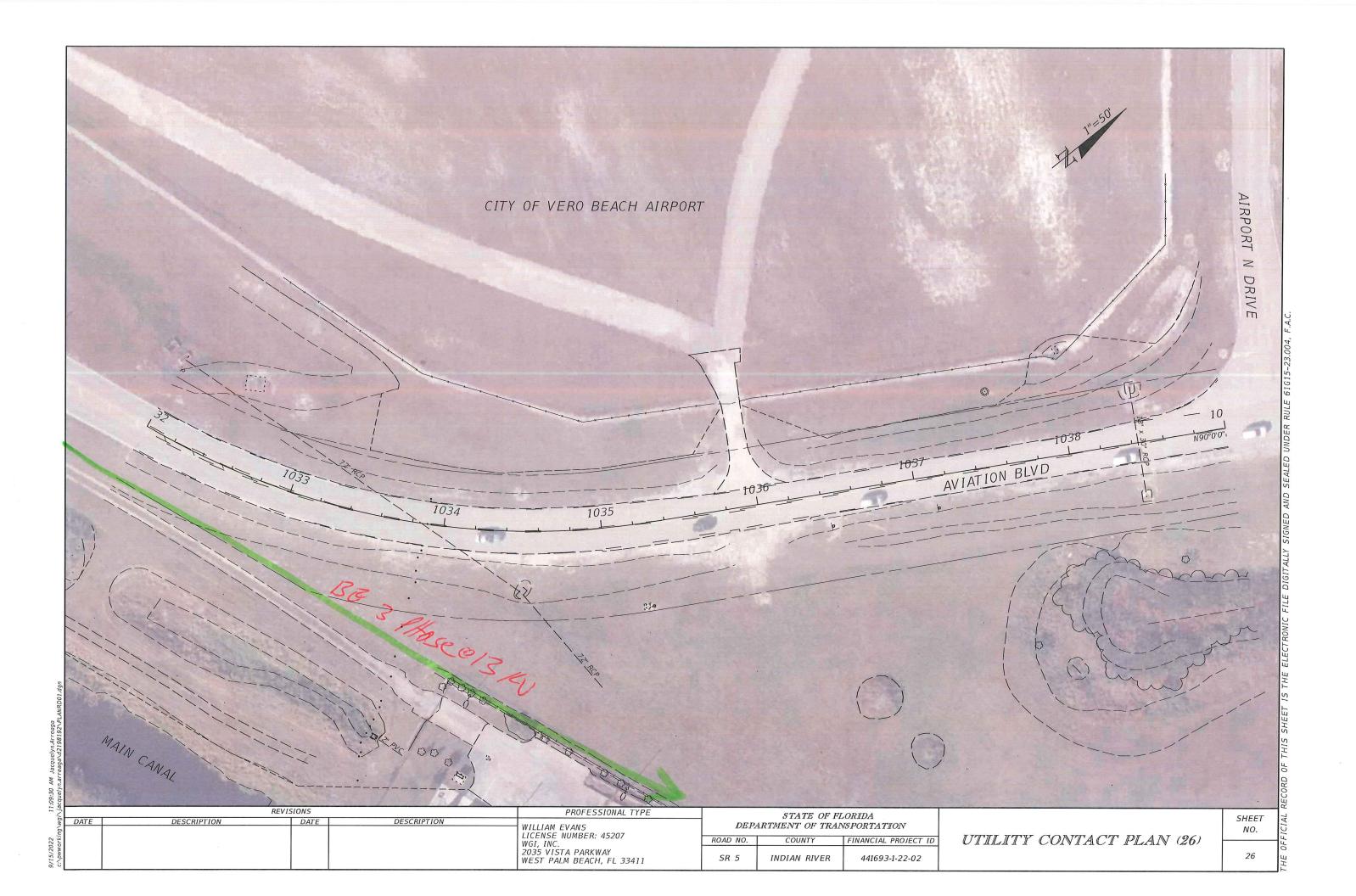
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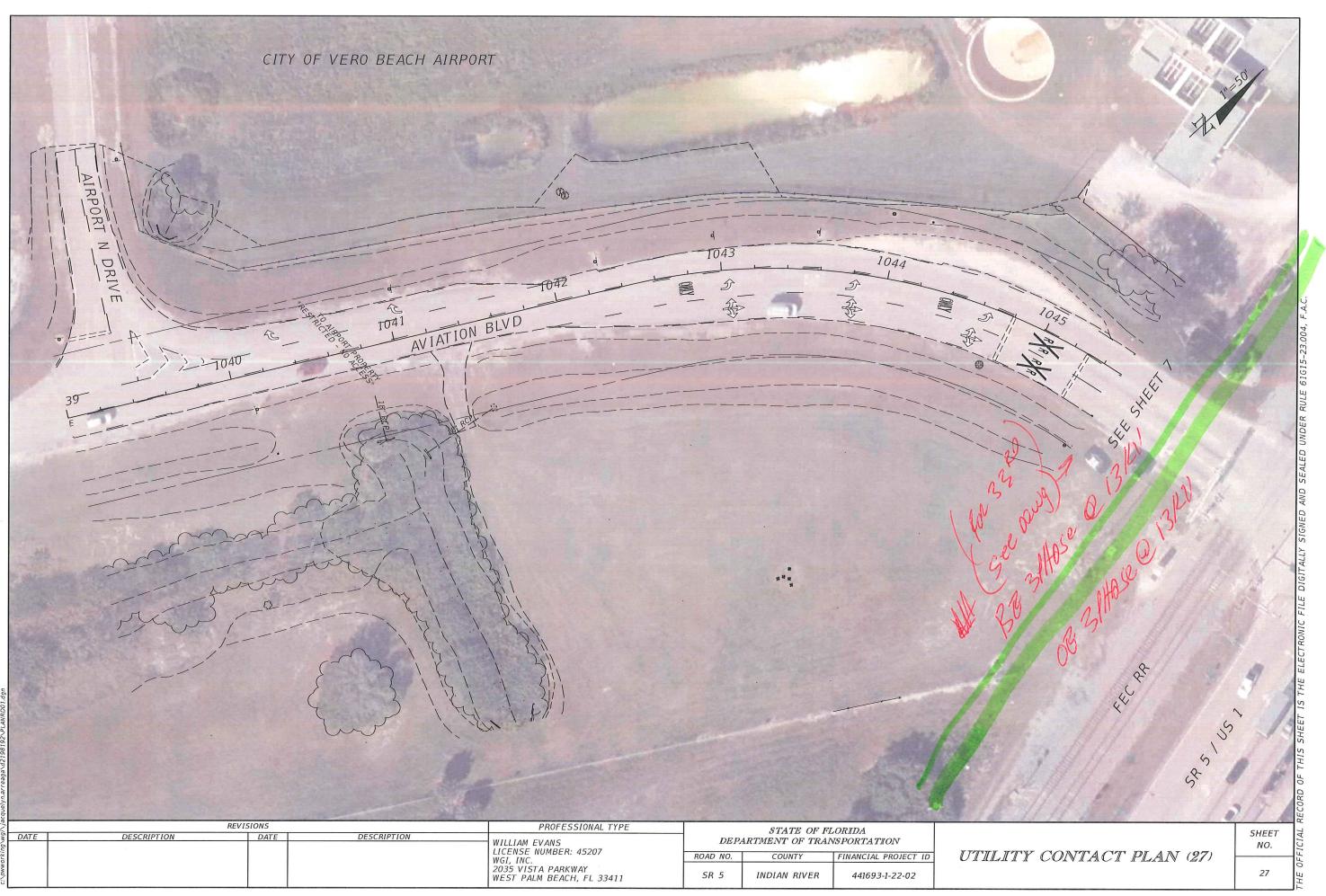






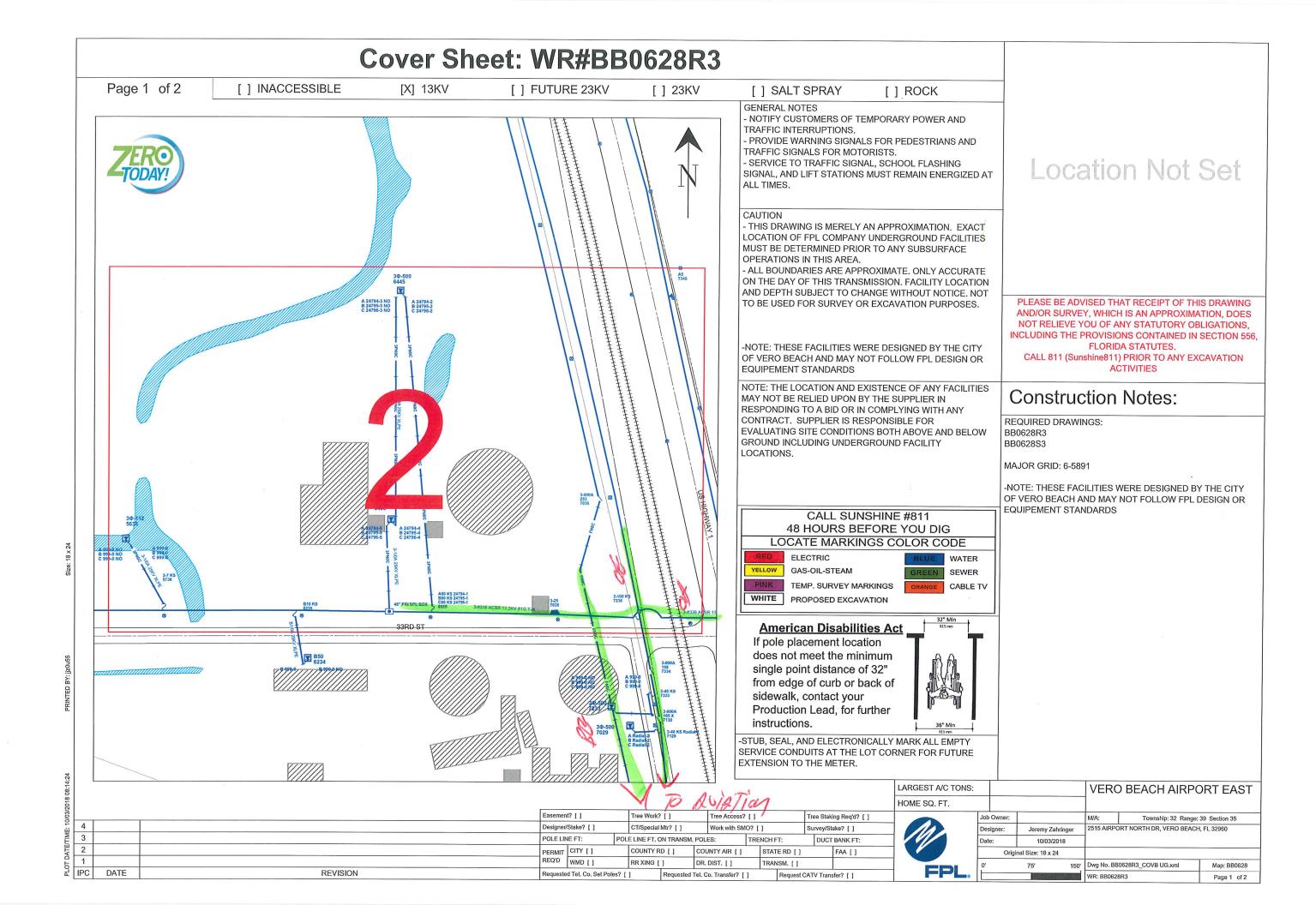


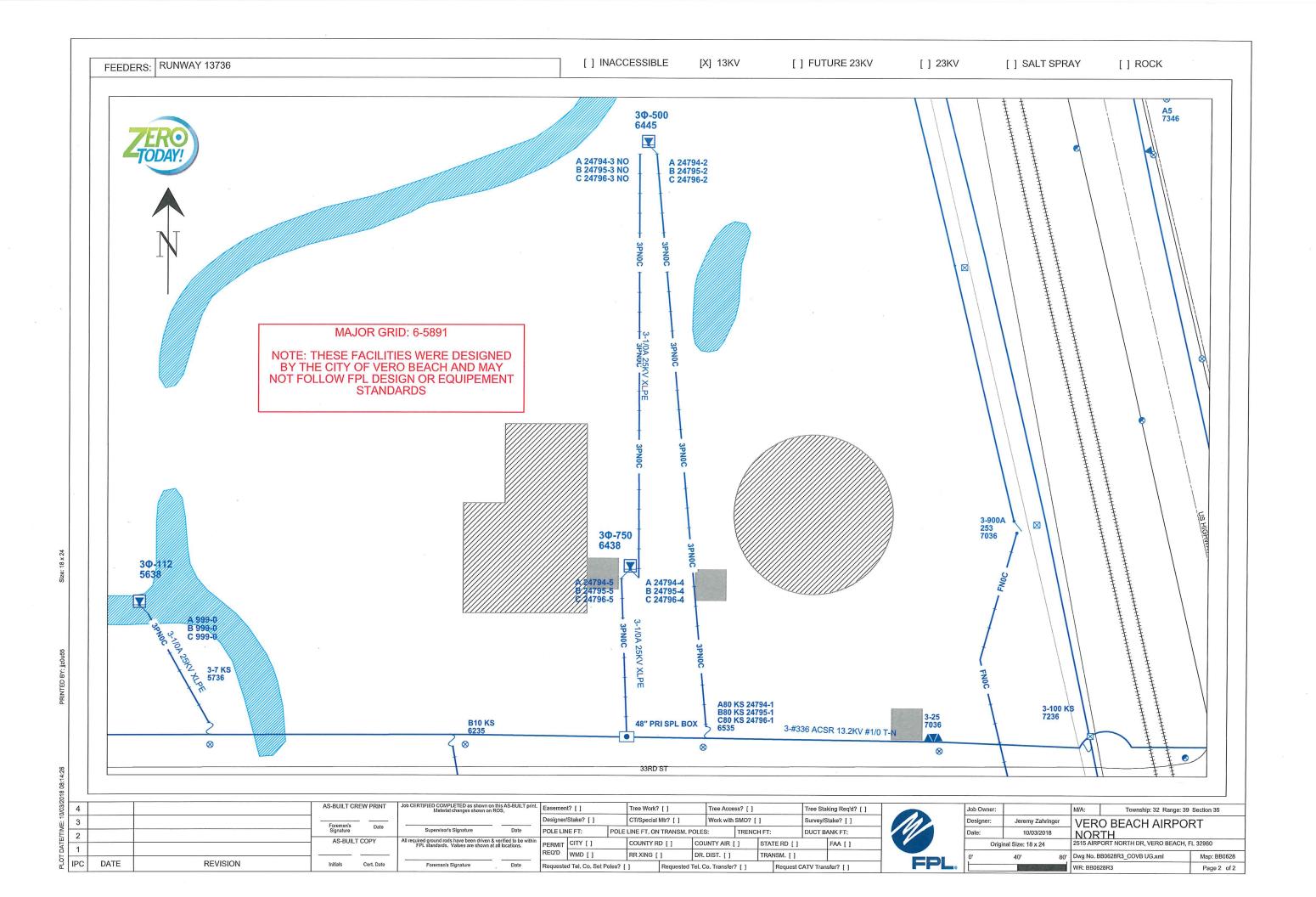




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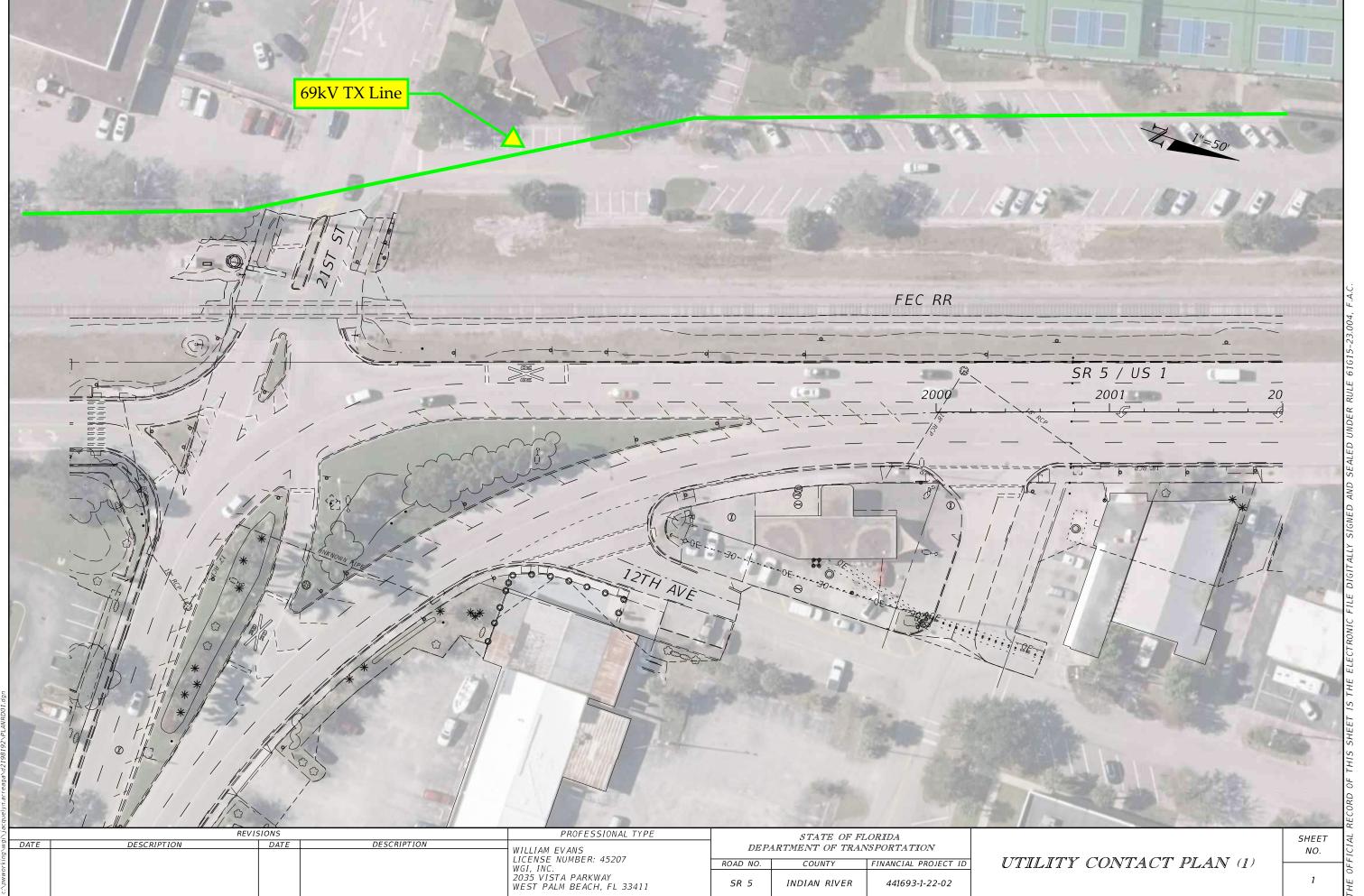




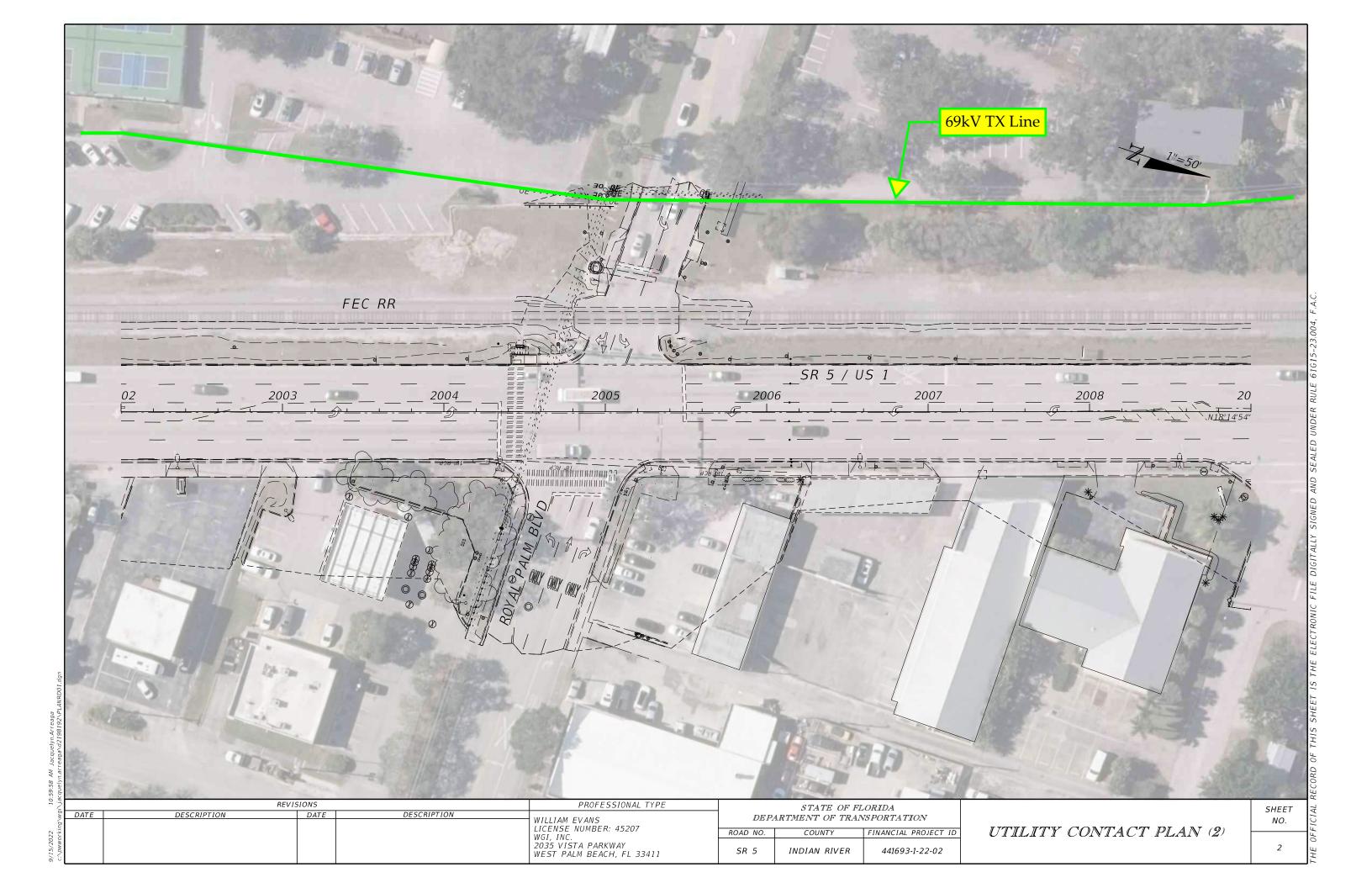
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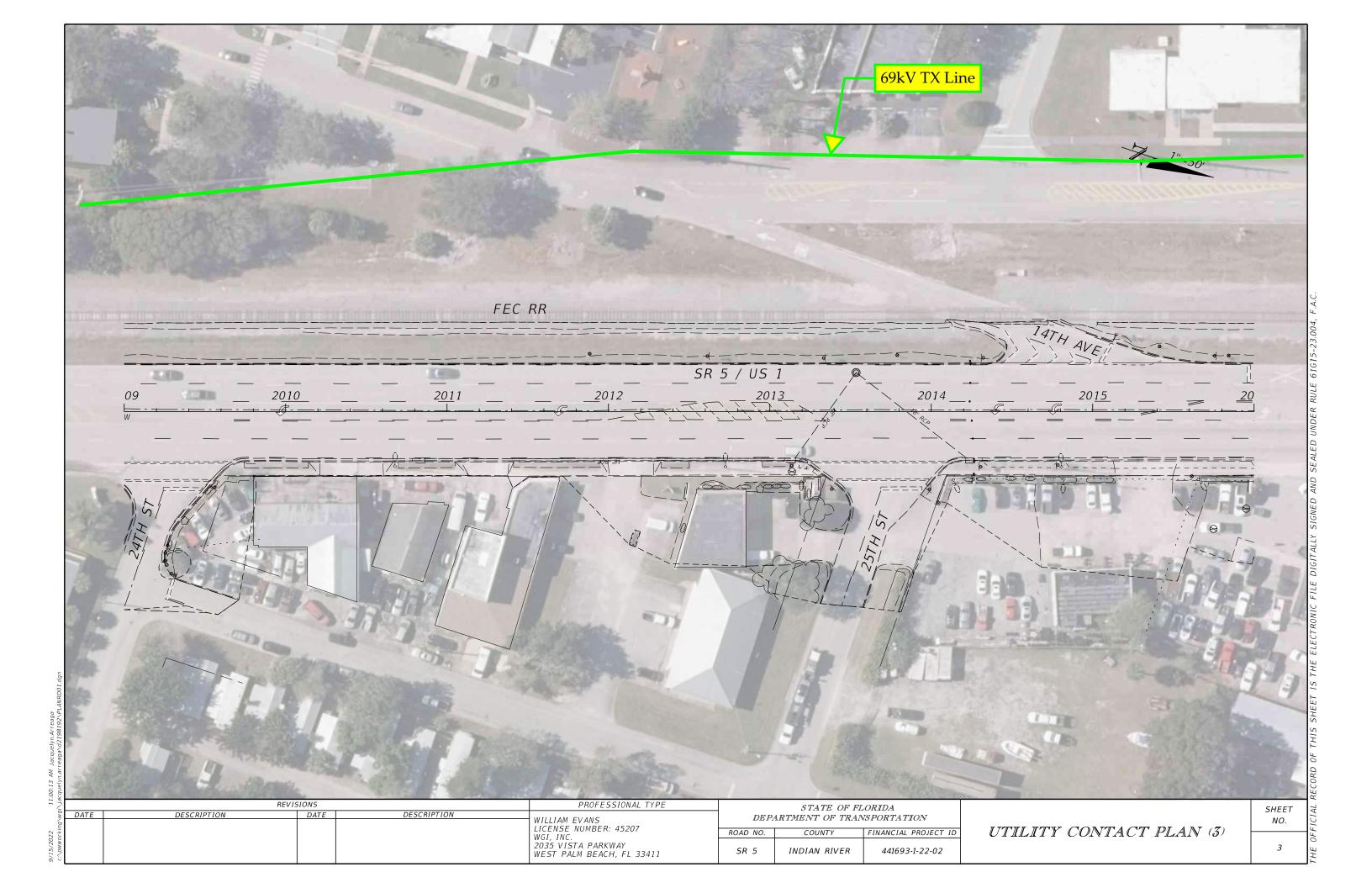
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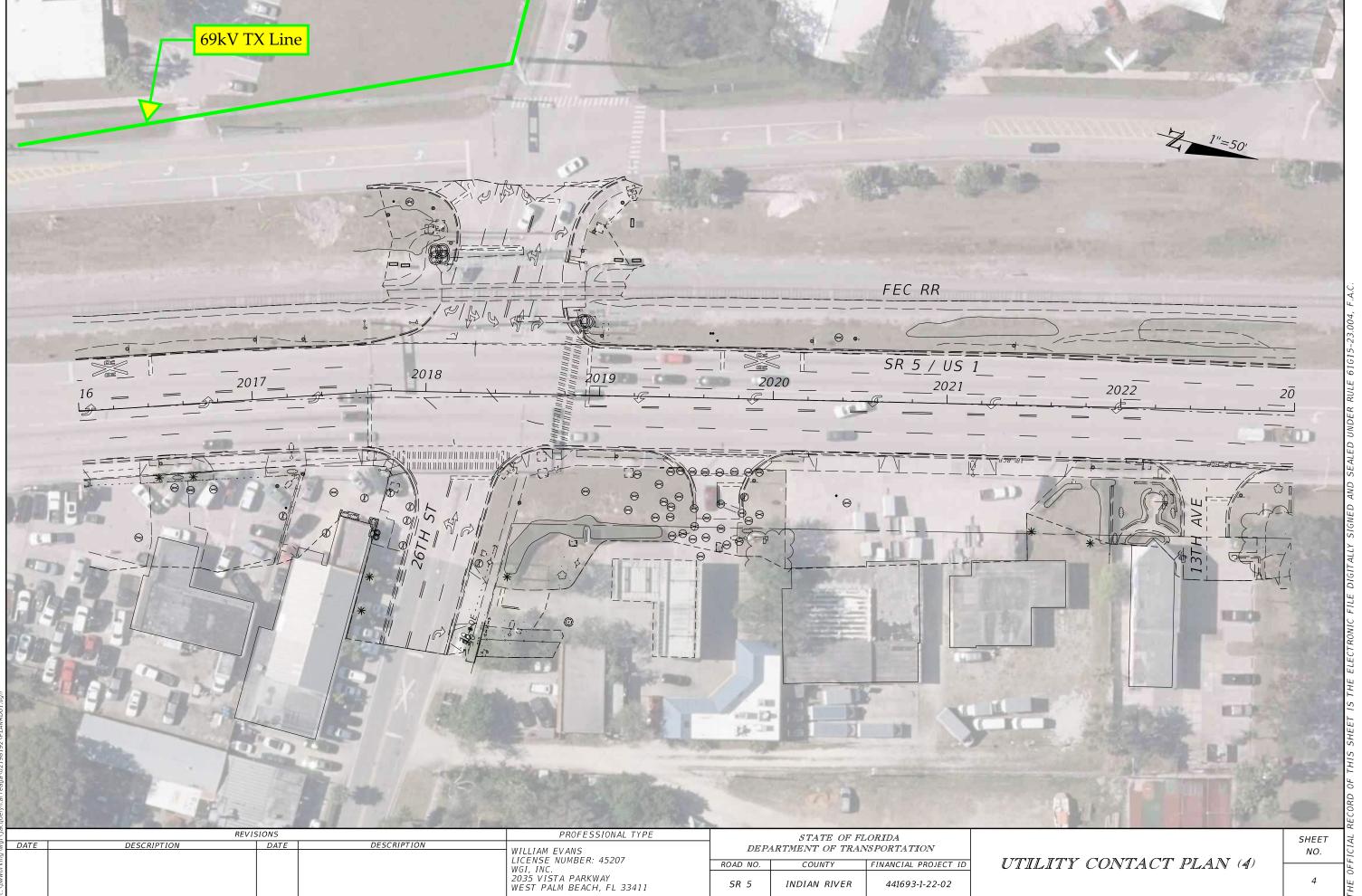
FP&L Transmission



SR 5 INDIAN RIVER 441693-1-22-02



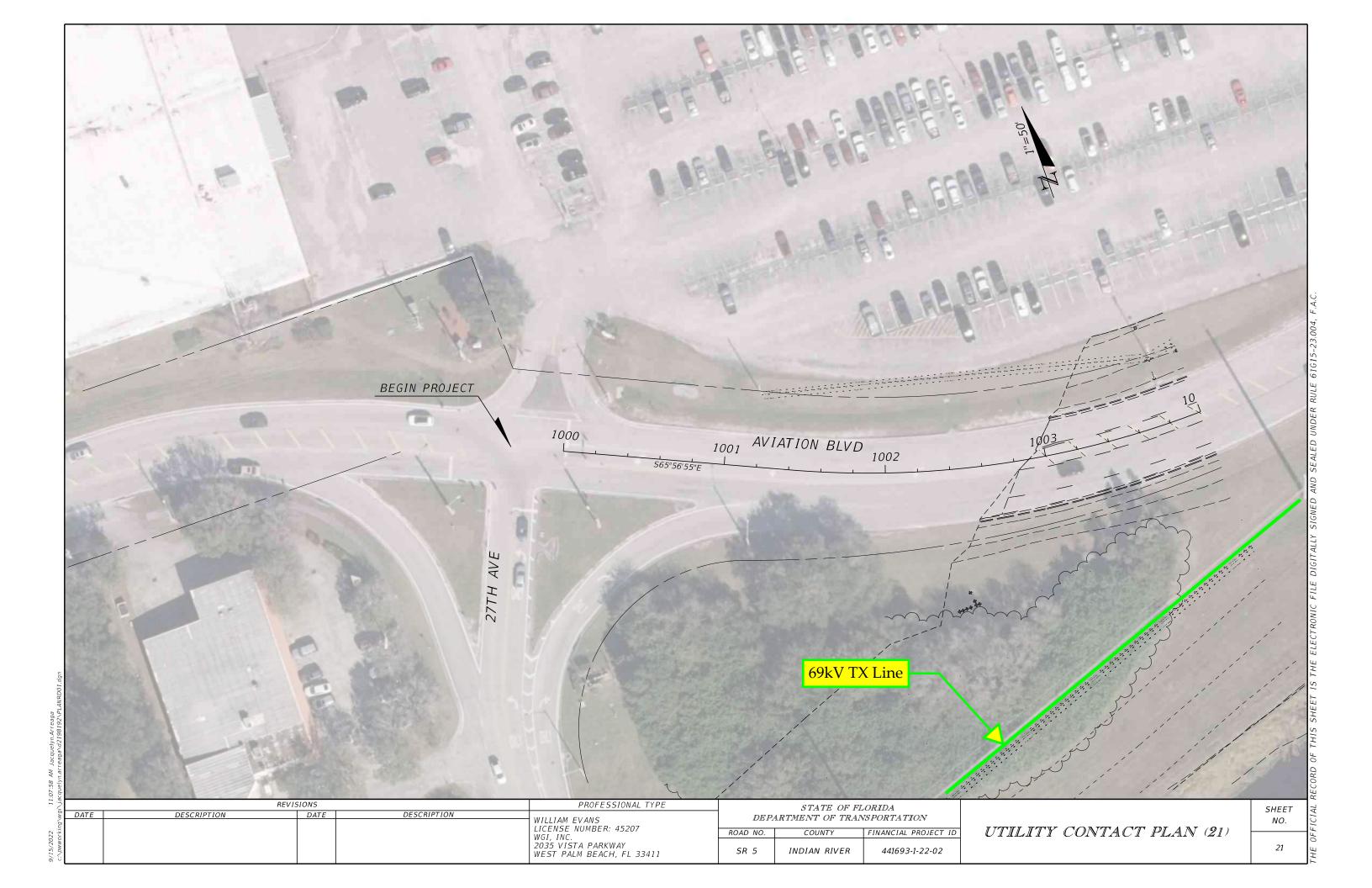


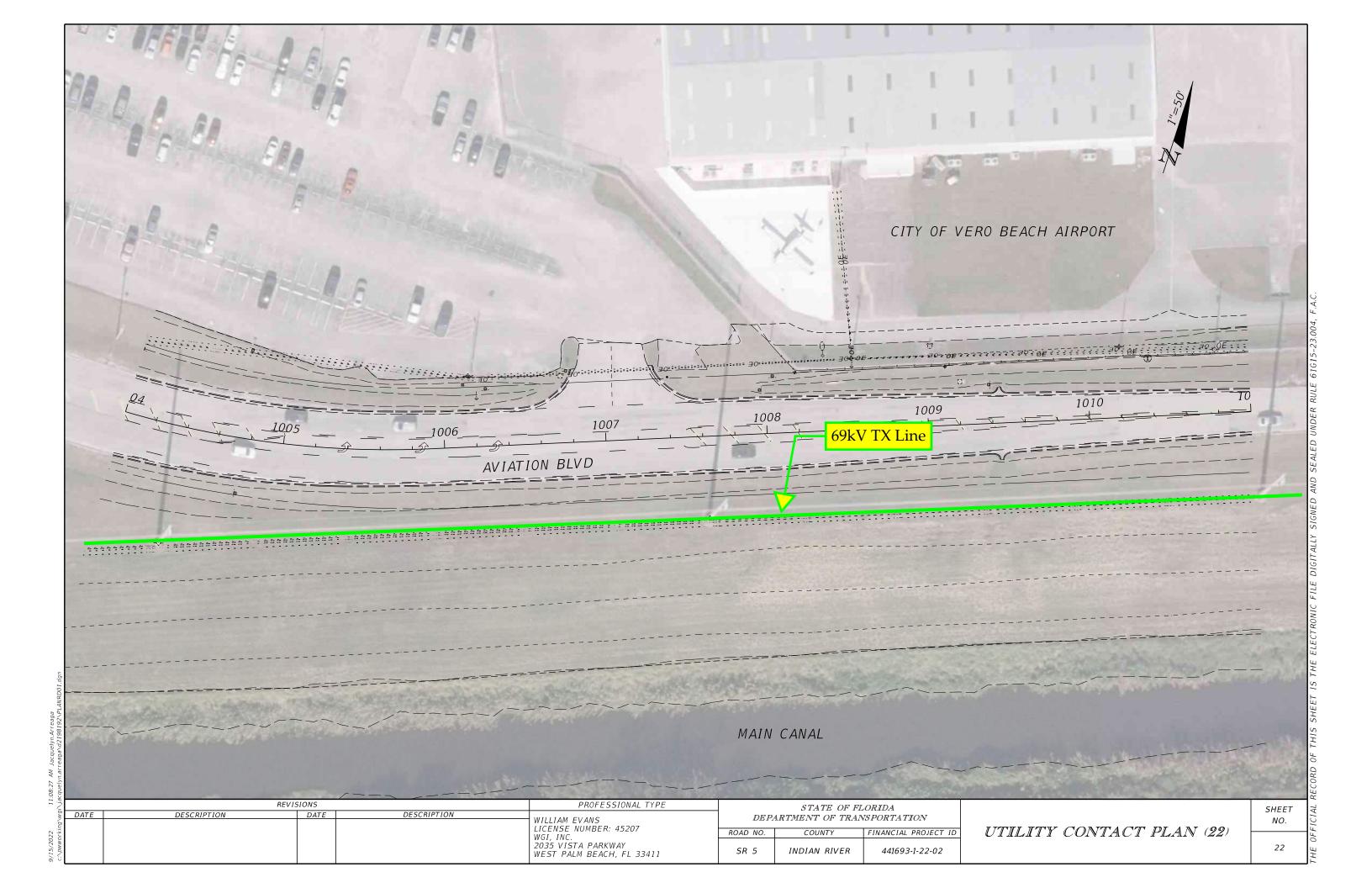


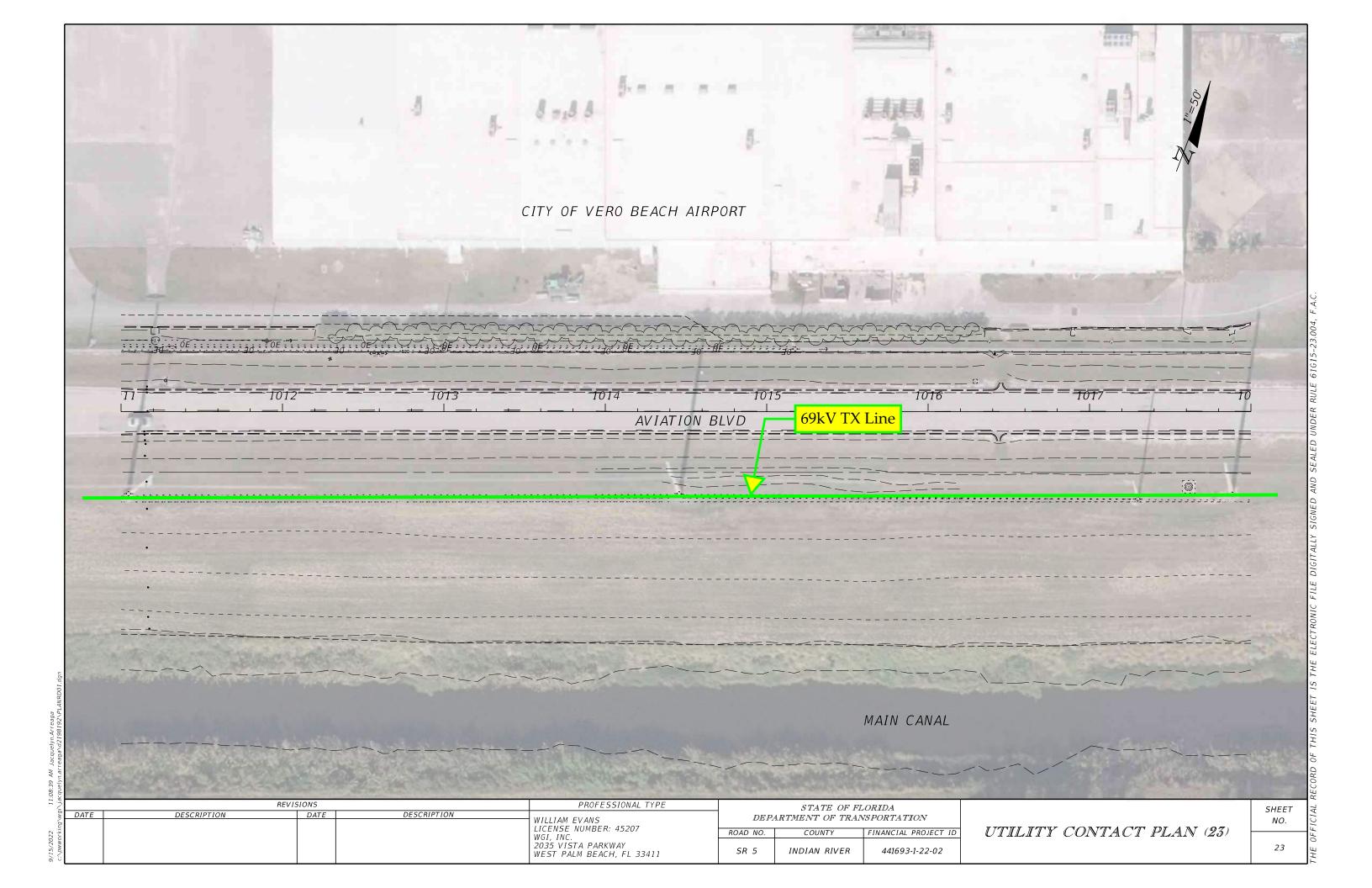
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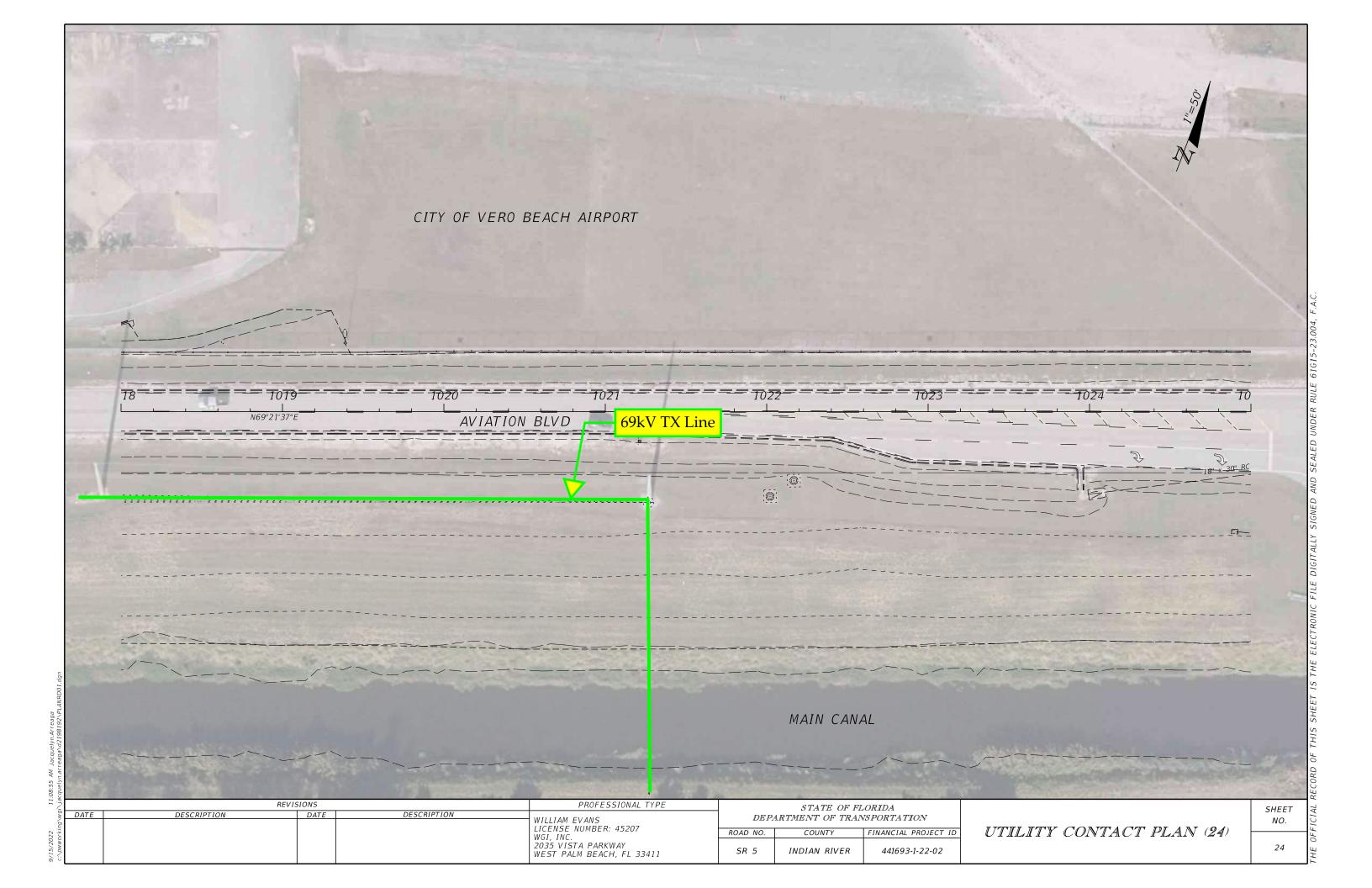
INDIAN RIVER

441693-1-22-02



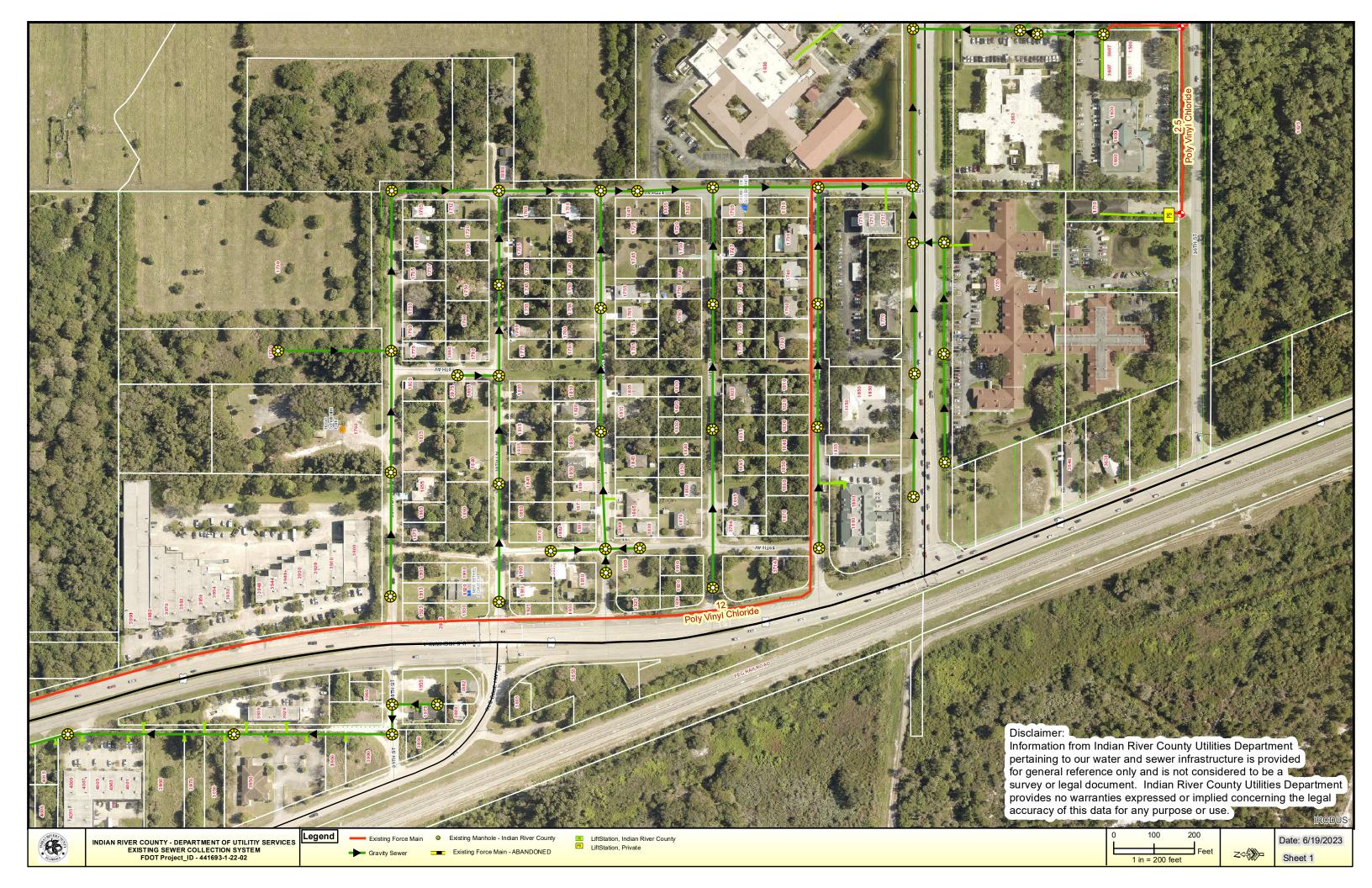


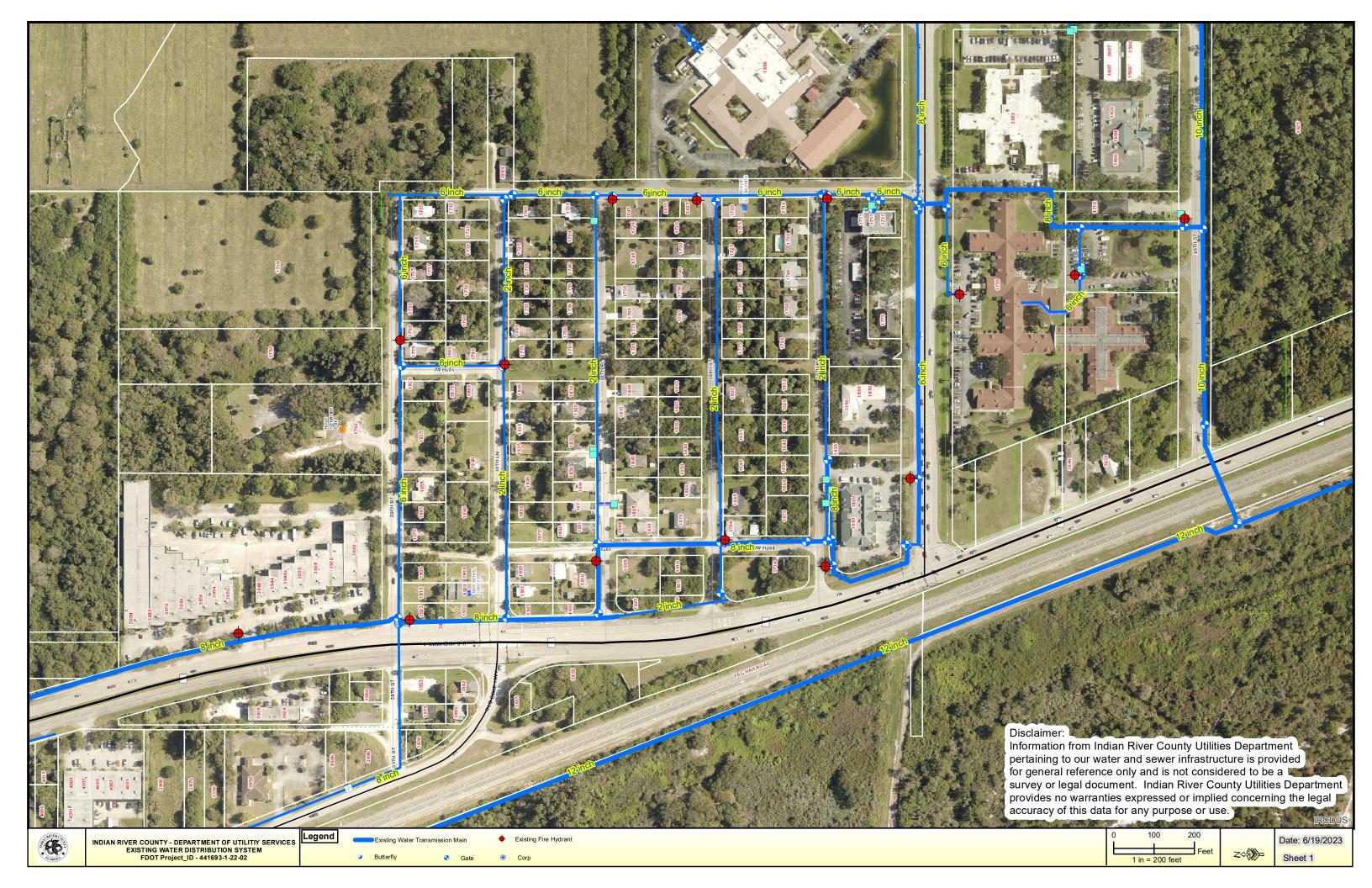




Appendix D

Indian River County Utilities



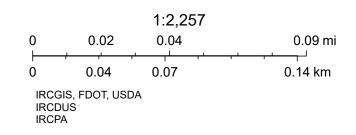


Indian River County



9/20/2023, 11:38:50 AM



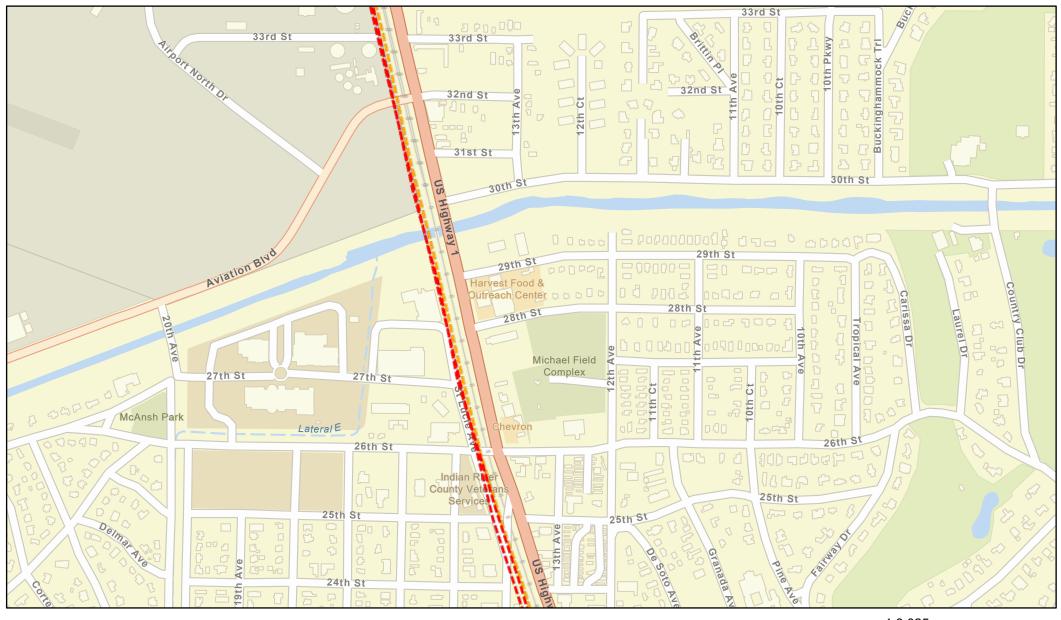


A	oper	ndice	es
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Appendix D

Lumen (CenturyLink)

LUMEN Relocate Utility Map

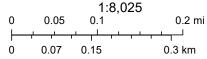


5/29/2023, 4:13:32 PM

Routes Leased

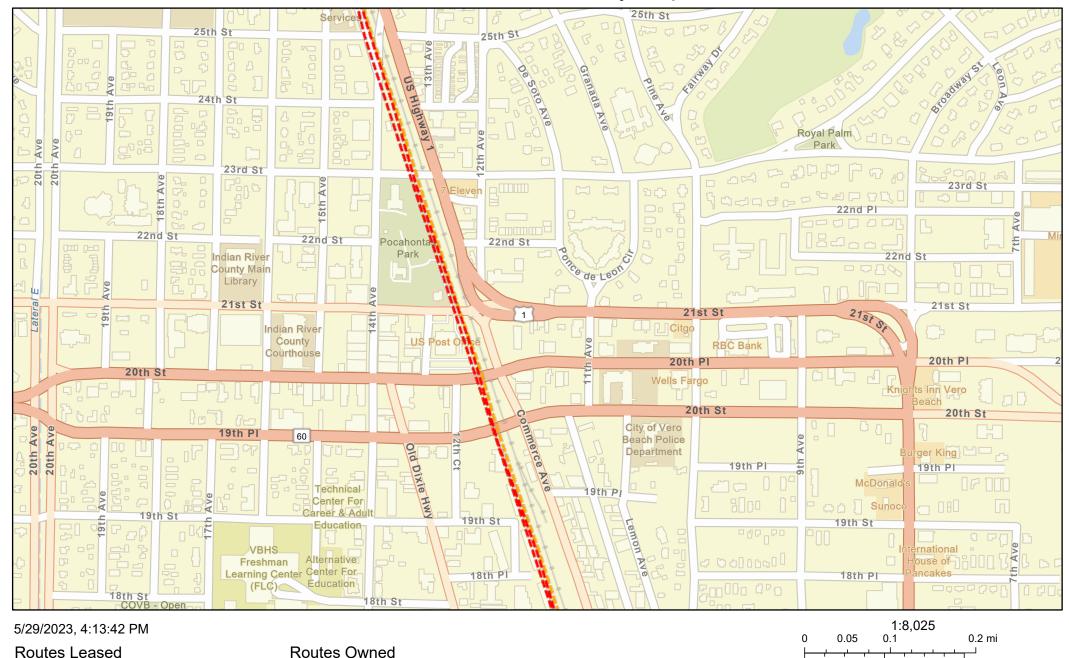
Routes Owned

LONGHAUL, UNDERGROUND --- LONGHAUL, UNDERGROUND



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LUMEN Relocate Utility Map



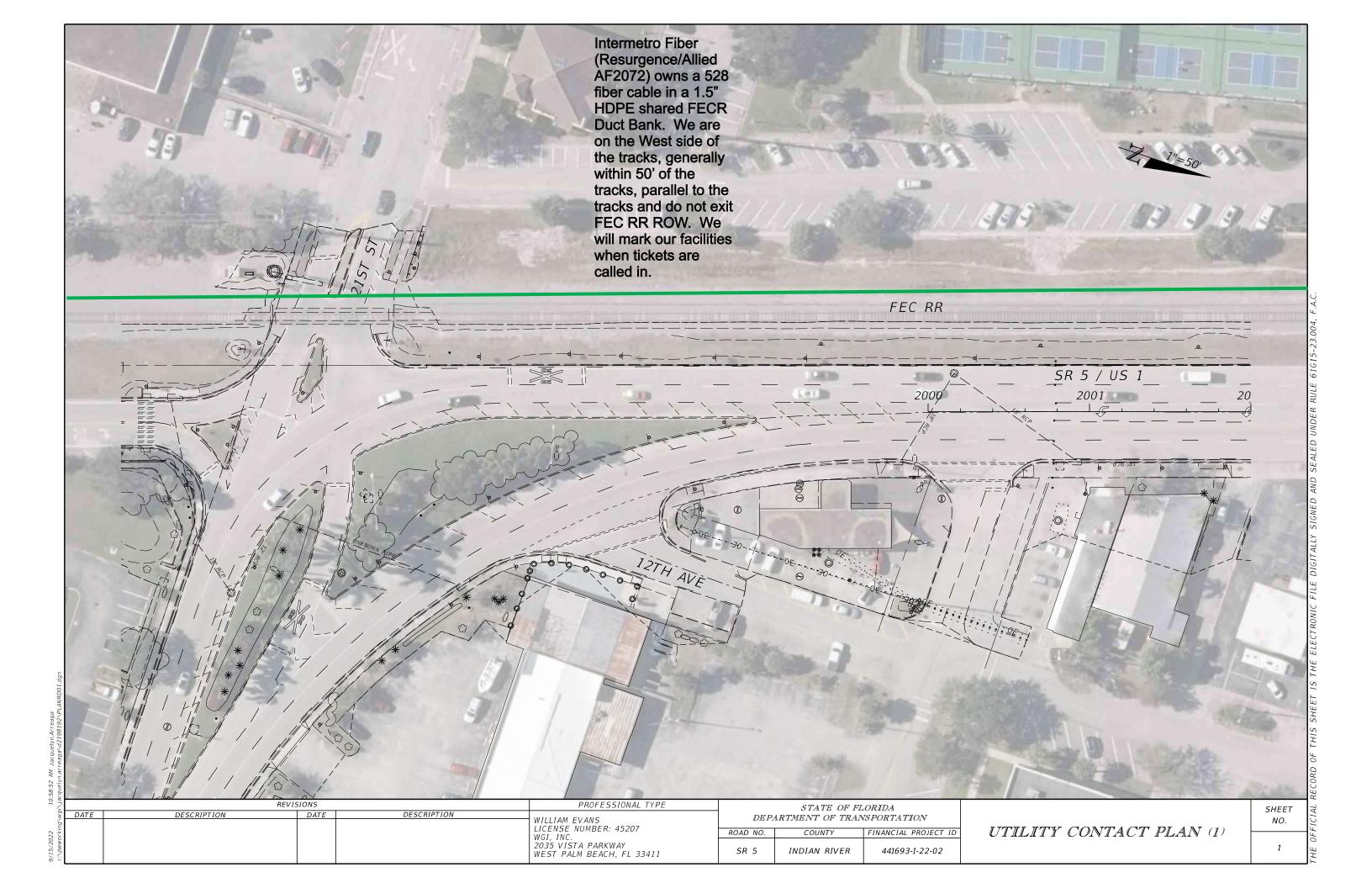
LONGHAUL, UNDERGROUND LONGHAUL, UNDERGROUND Esri Community Maps Contributors, Indian River County, FDEP, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

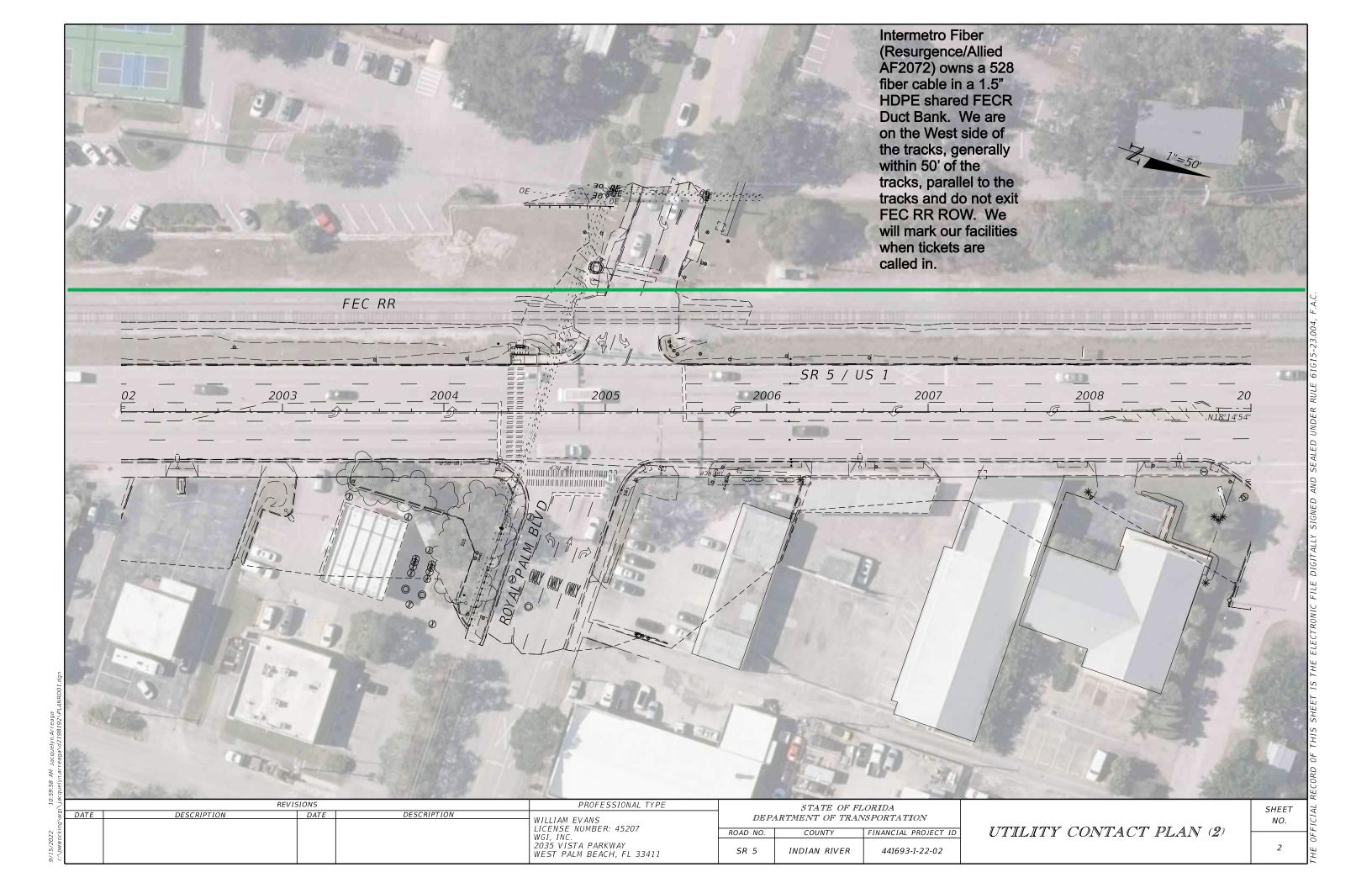
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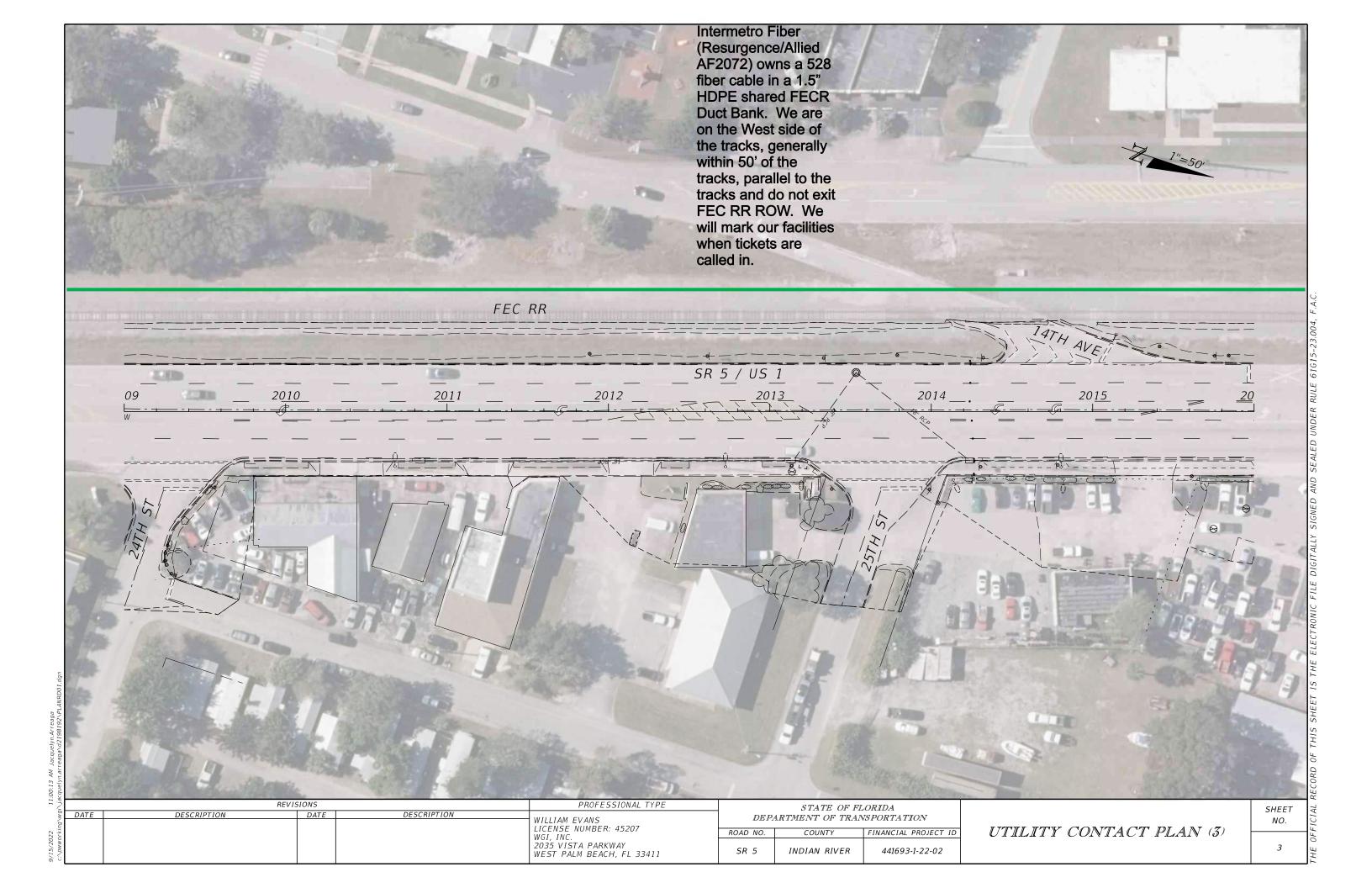
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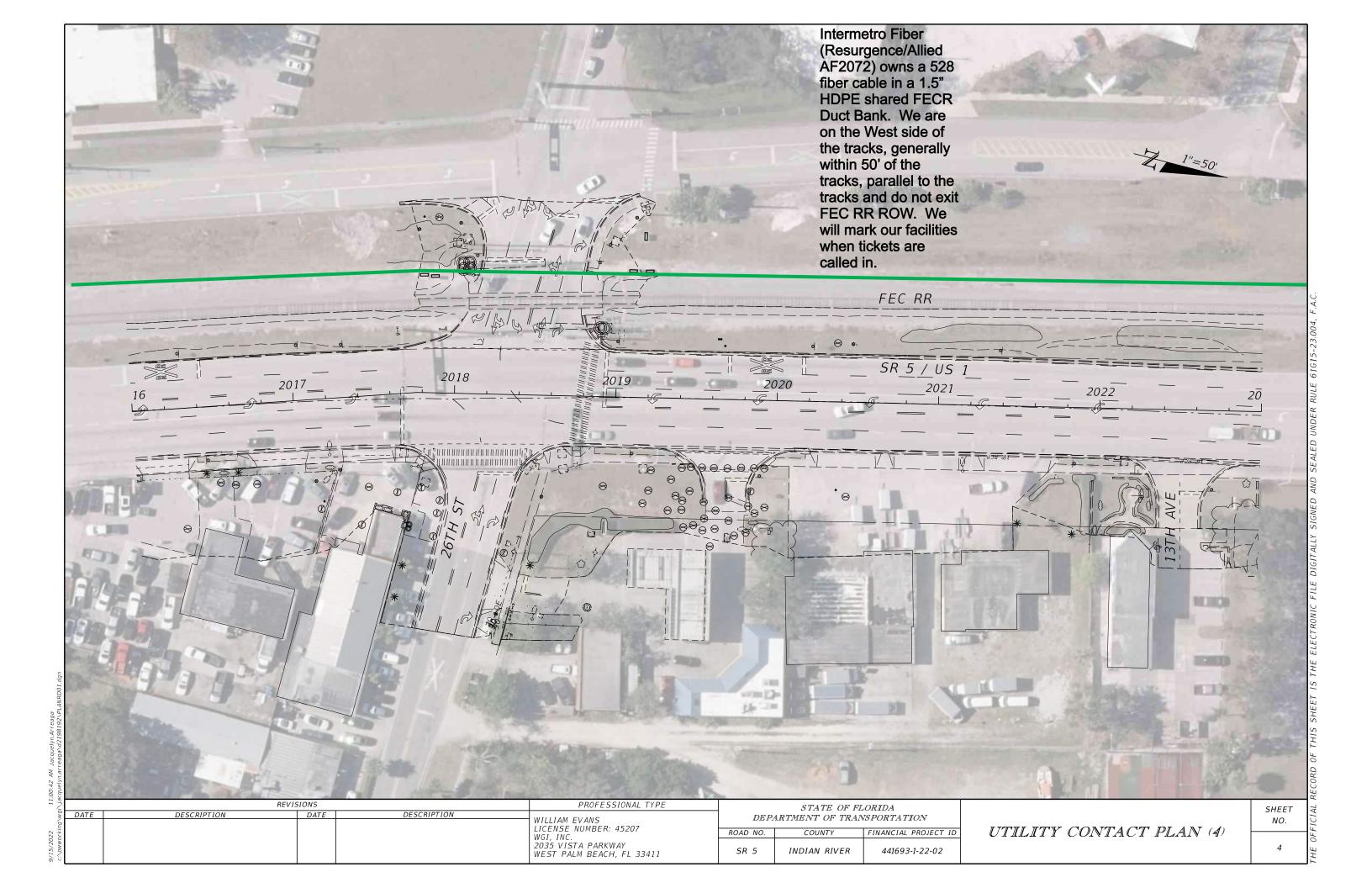
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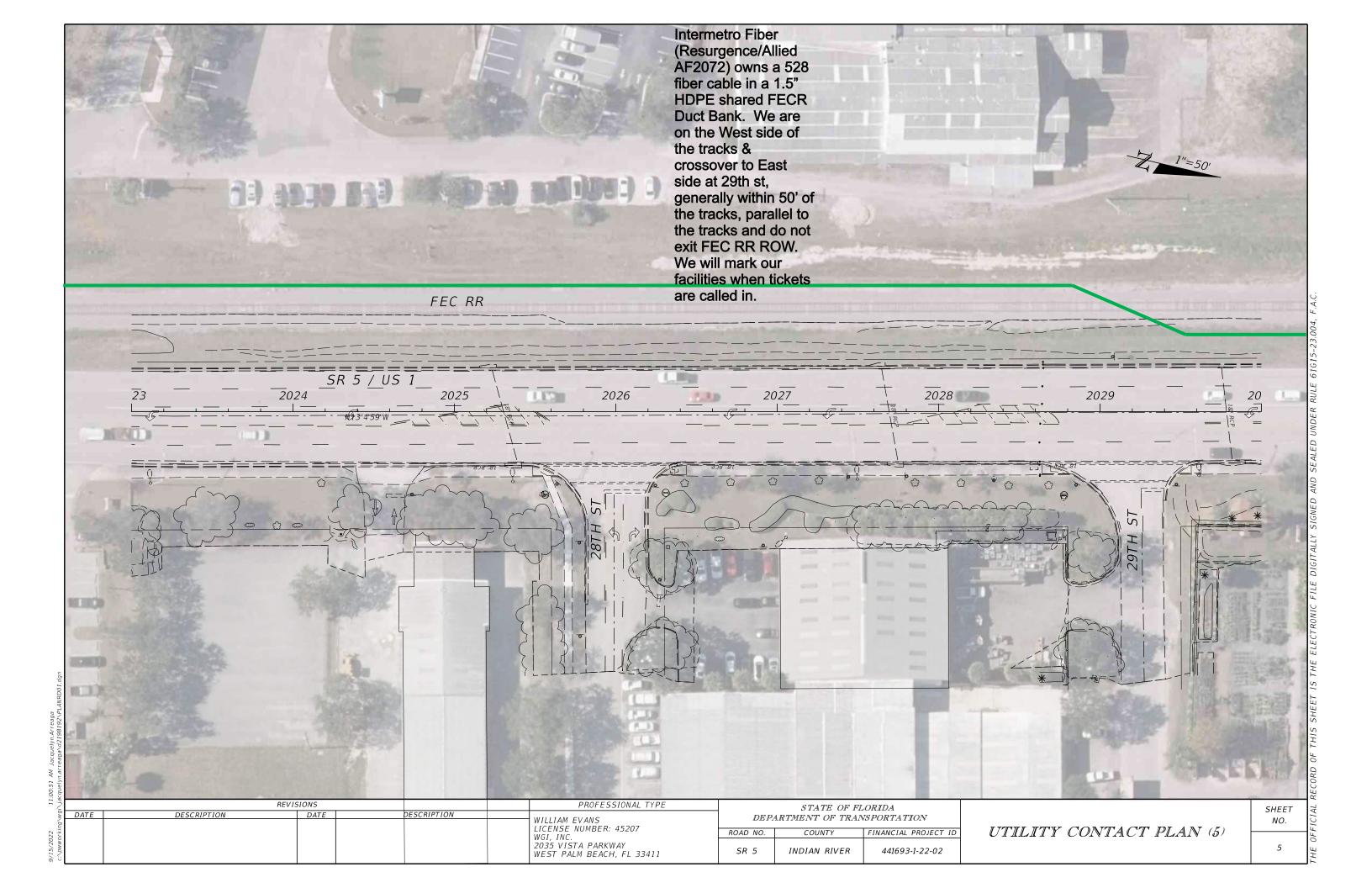
Appendices
Appendix D
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Resurgence Infrastructure Group

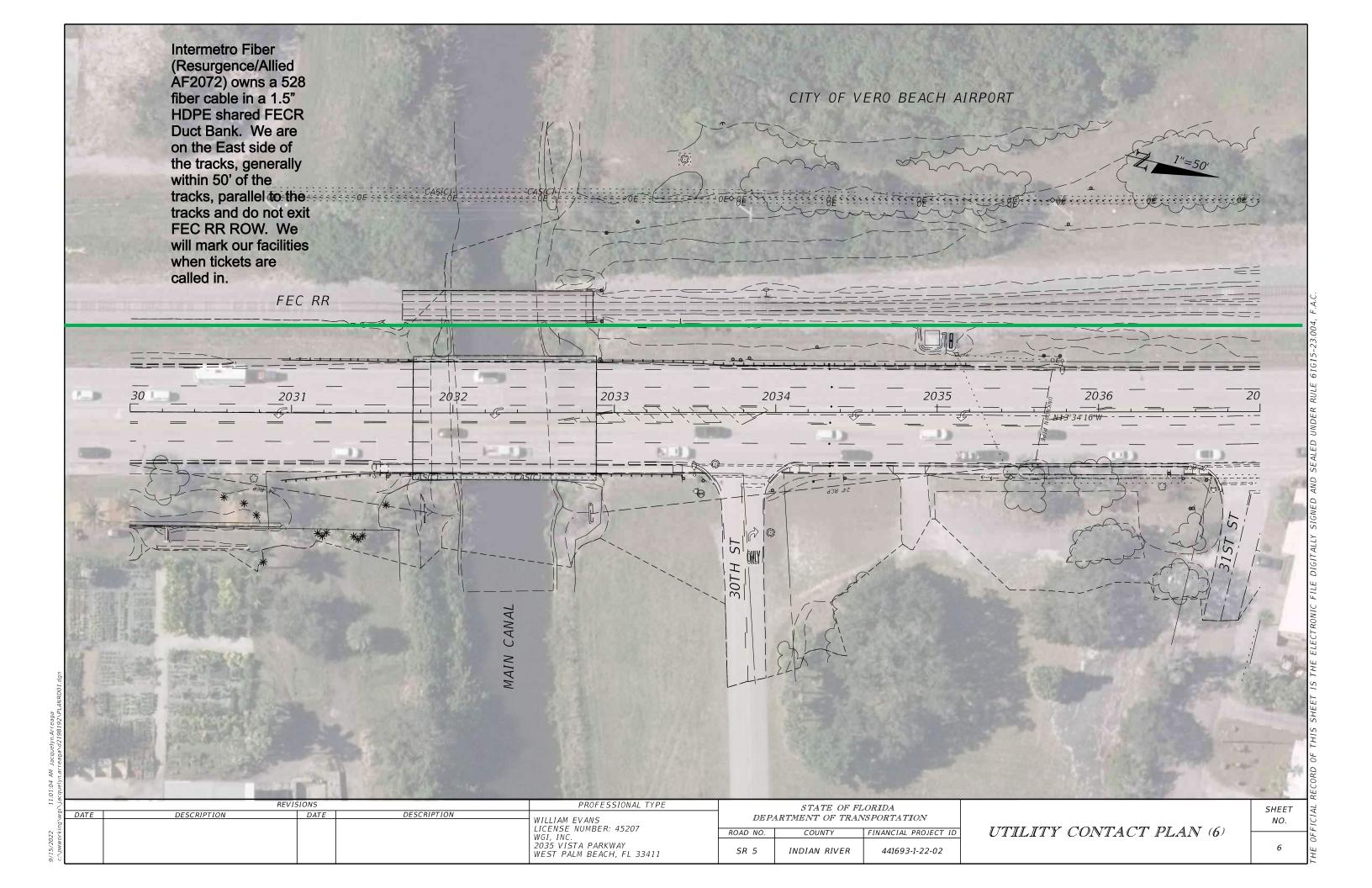


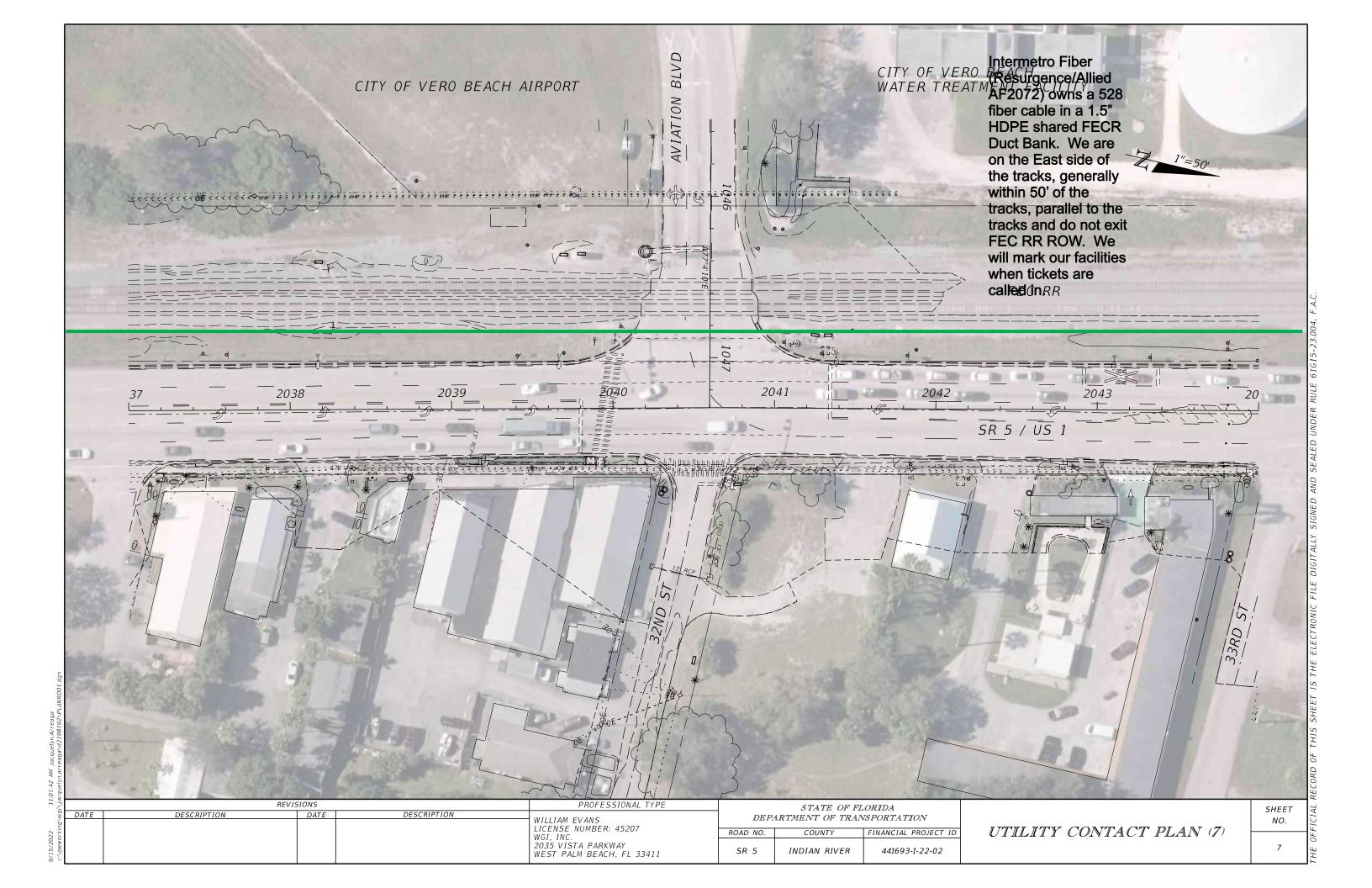


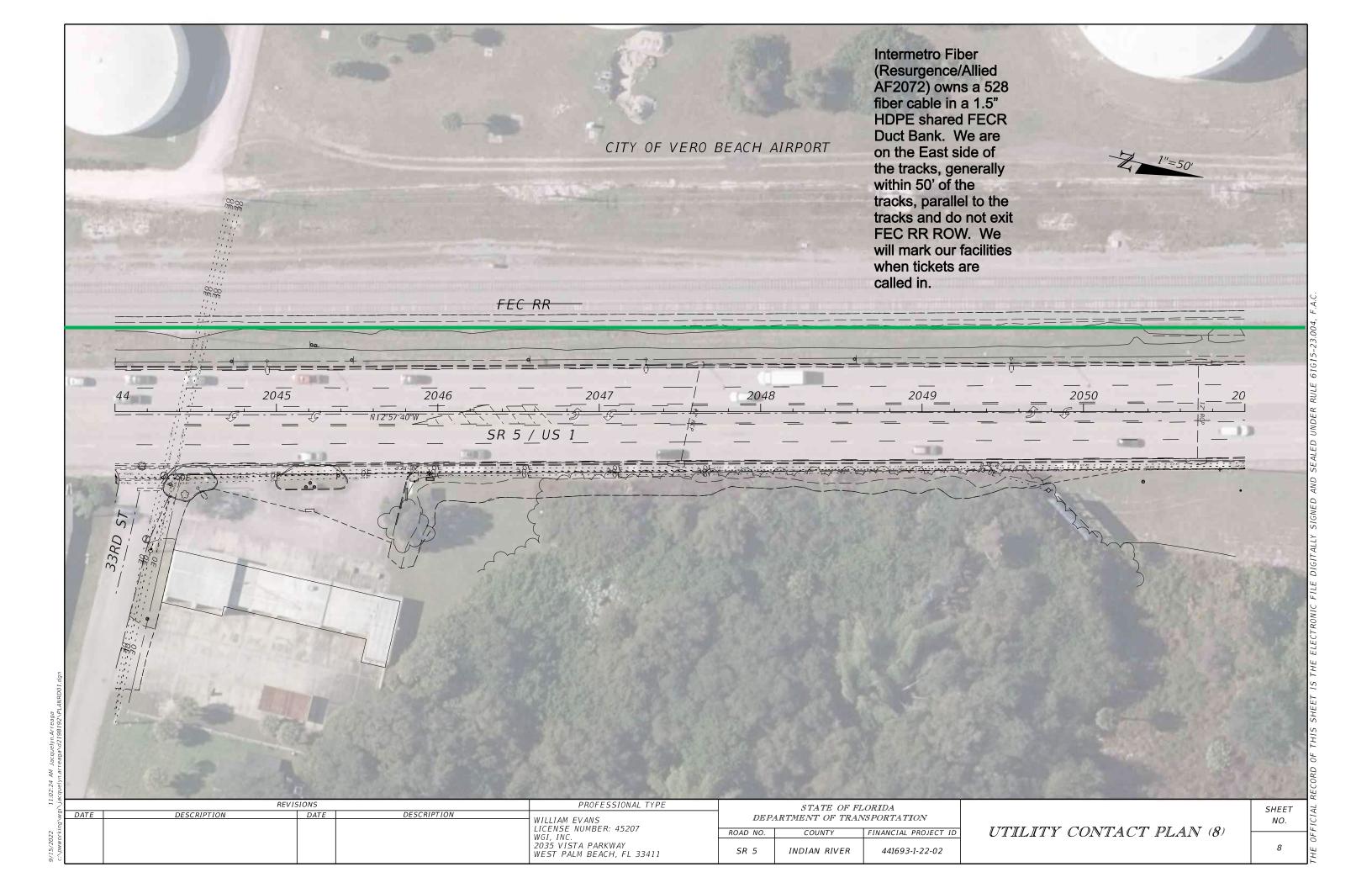


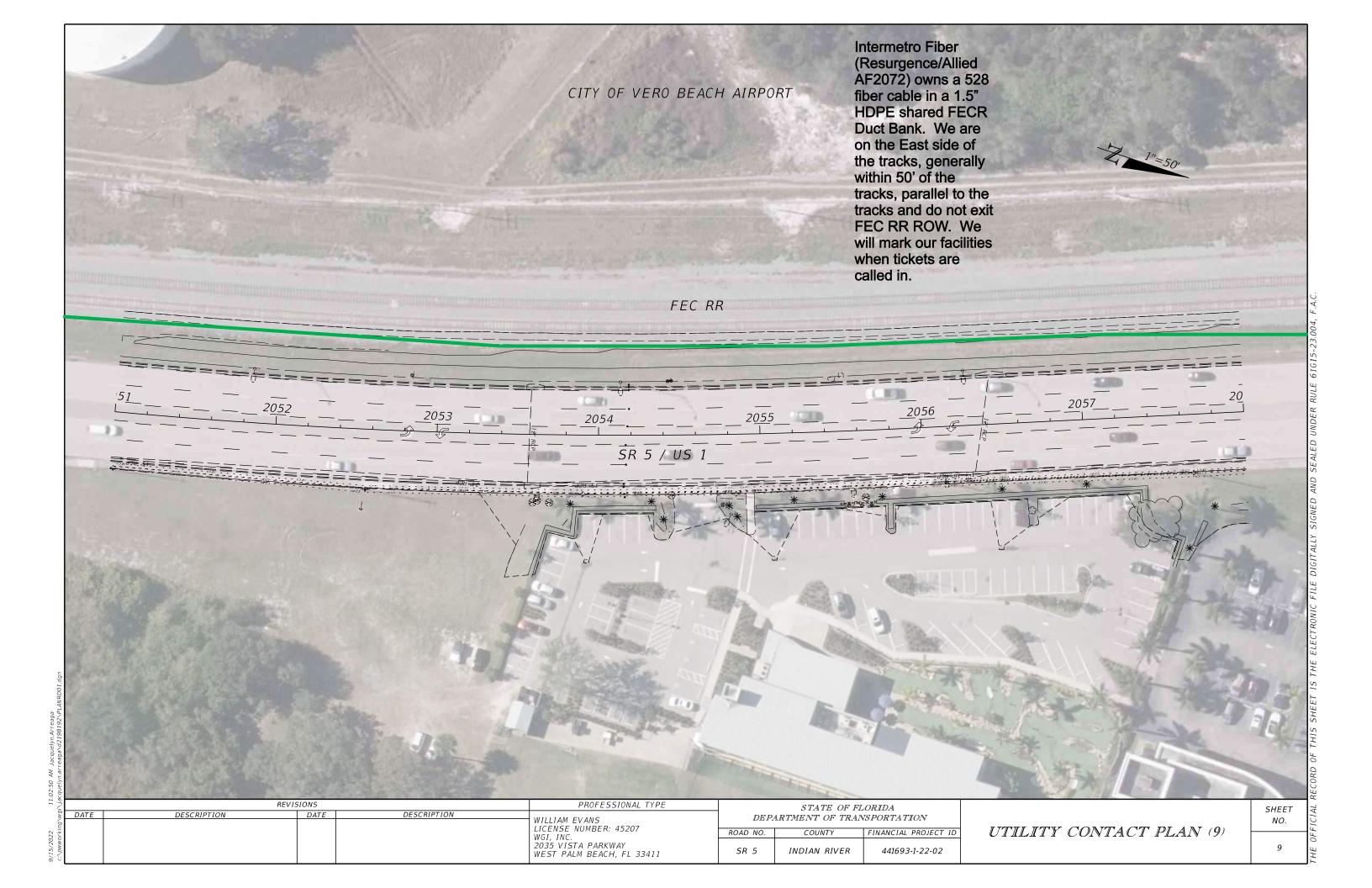


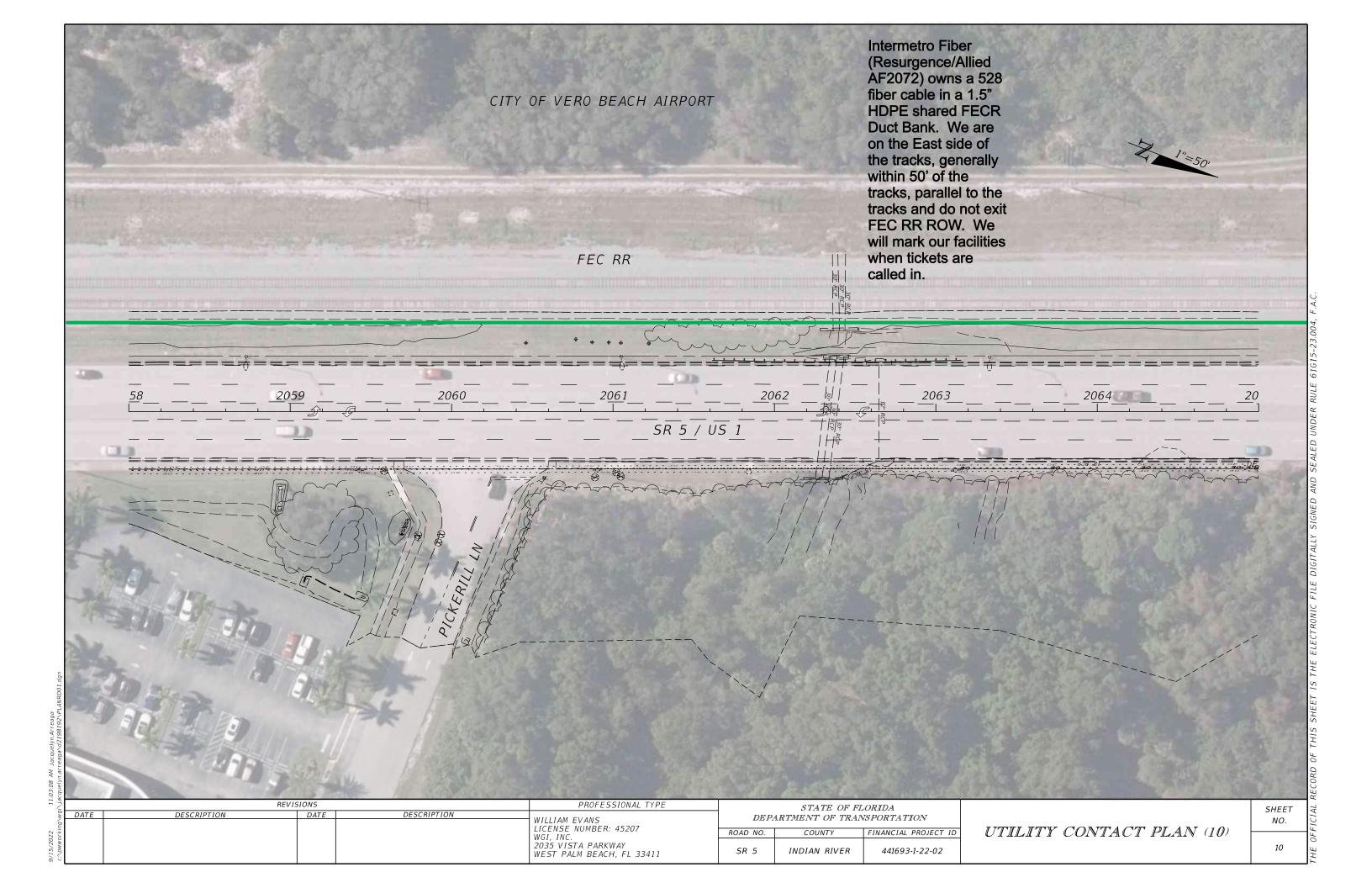


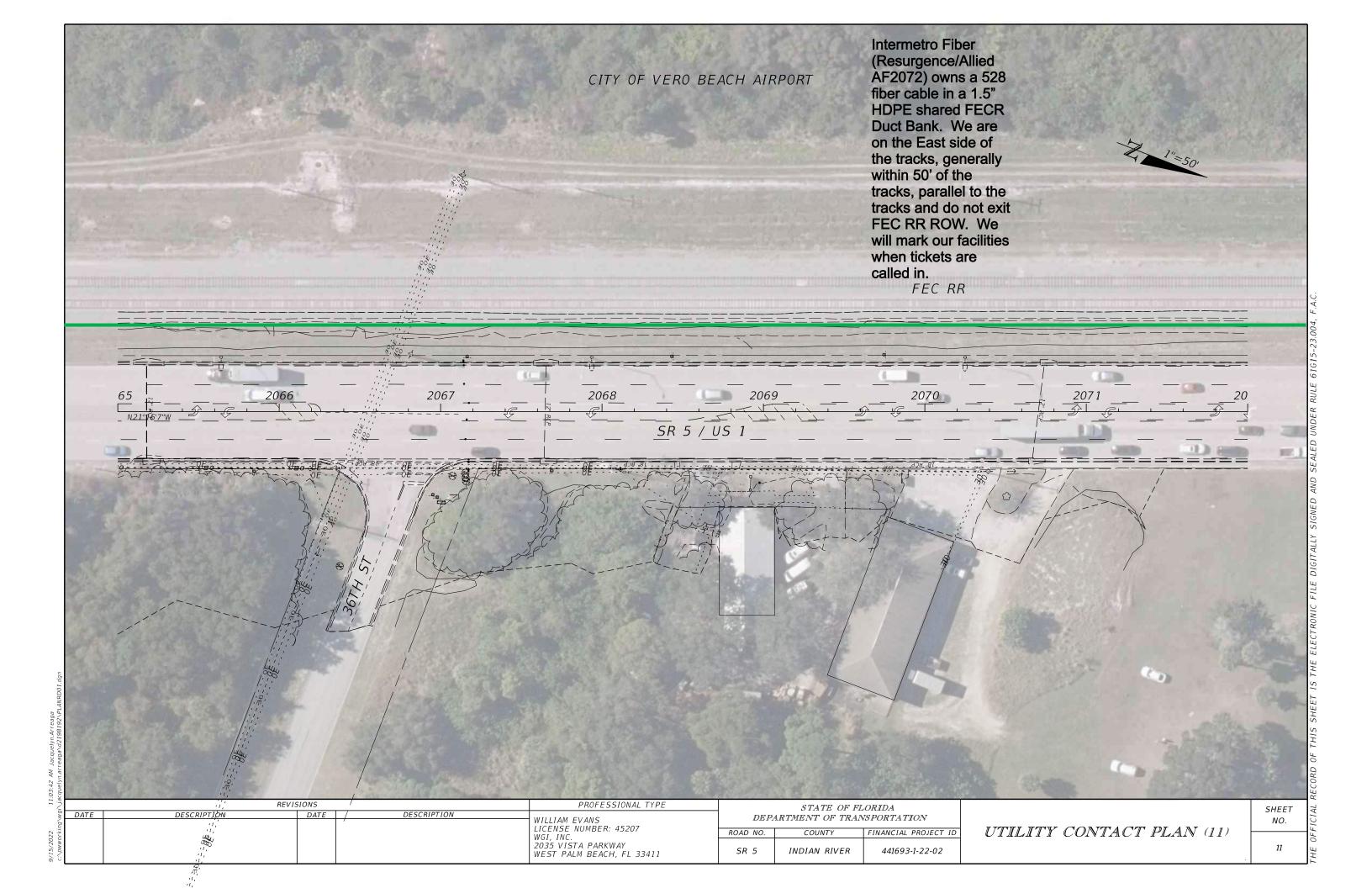


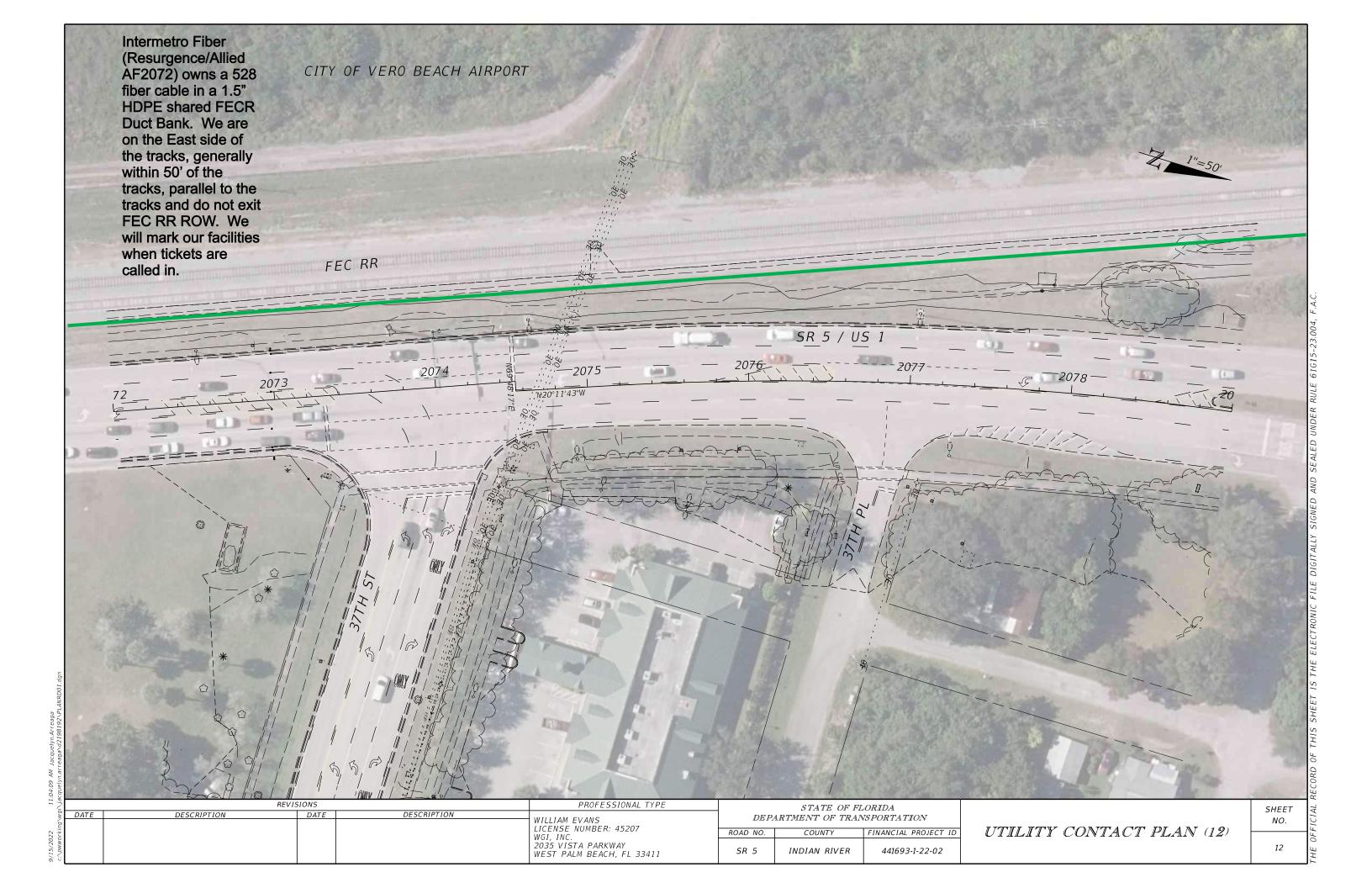


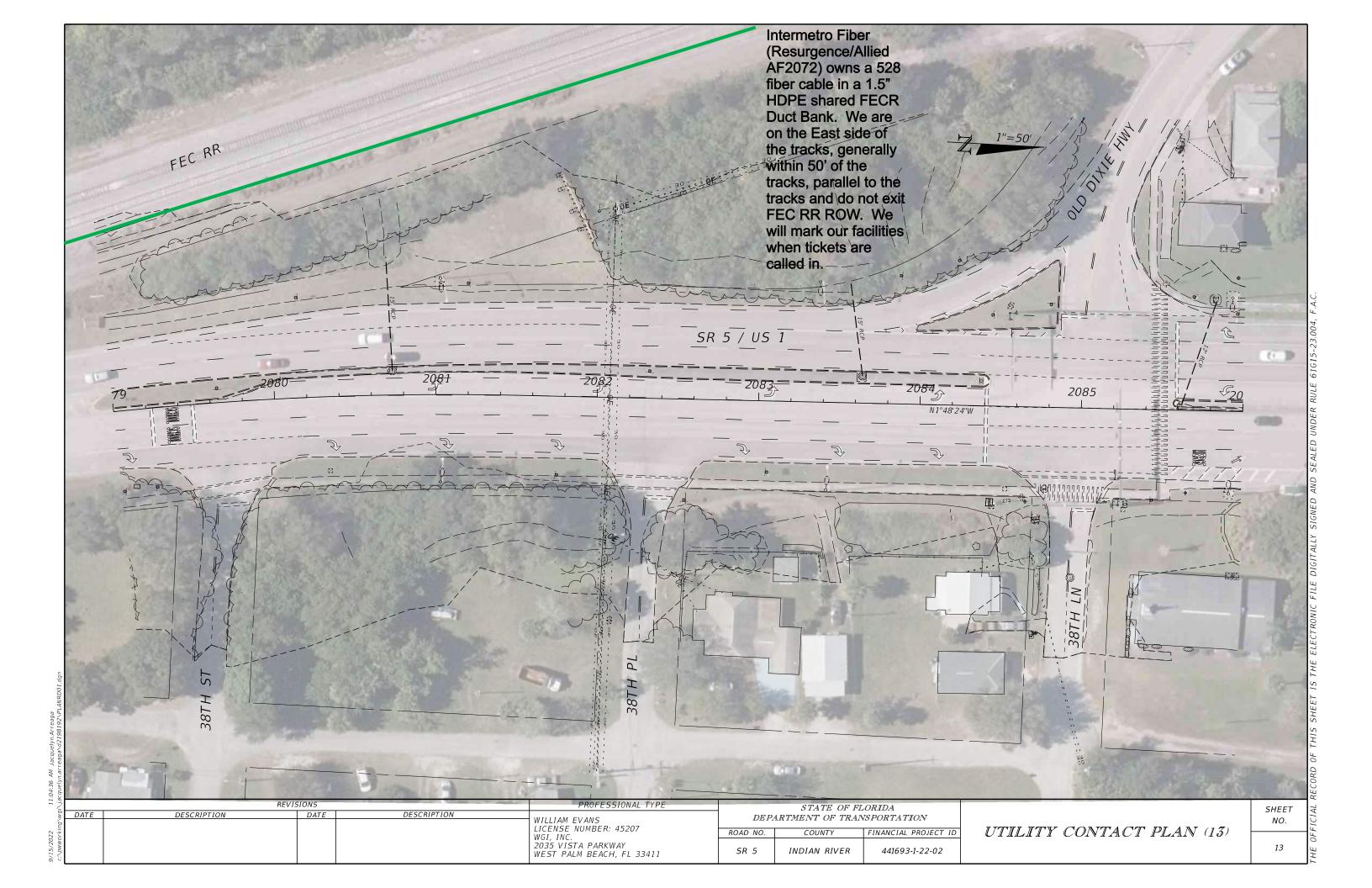


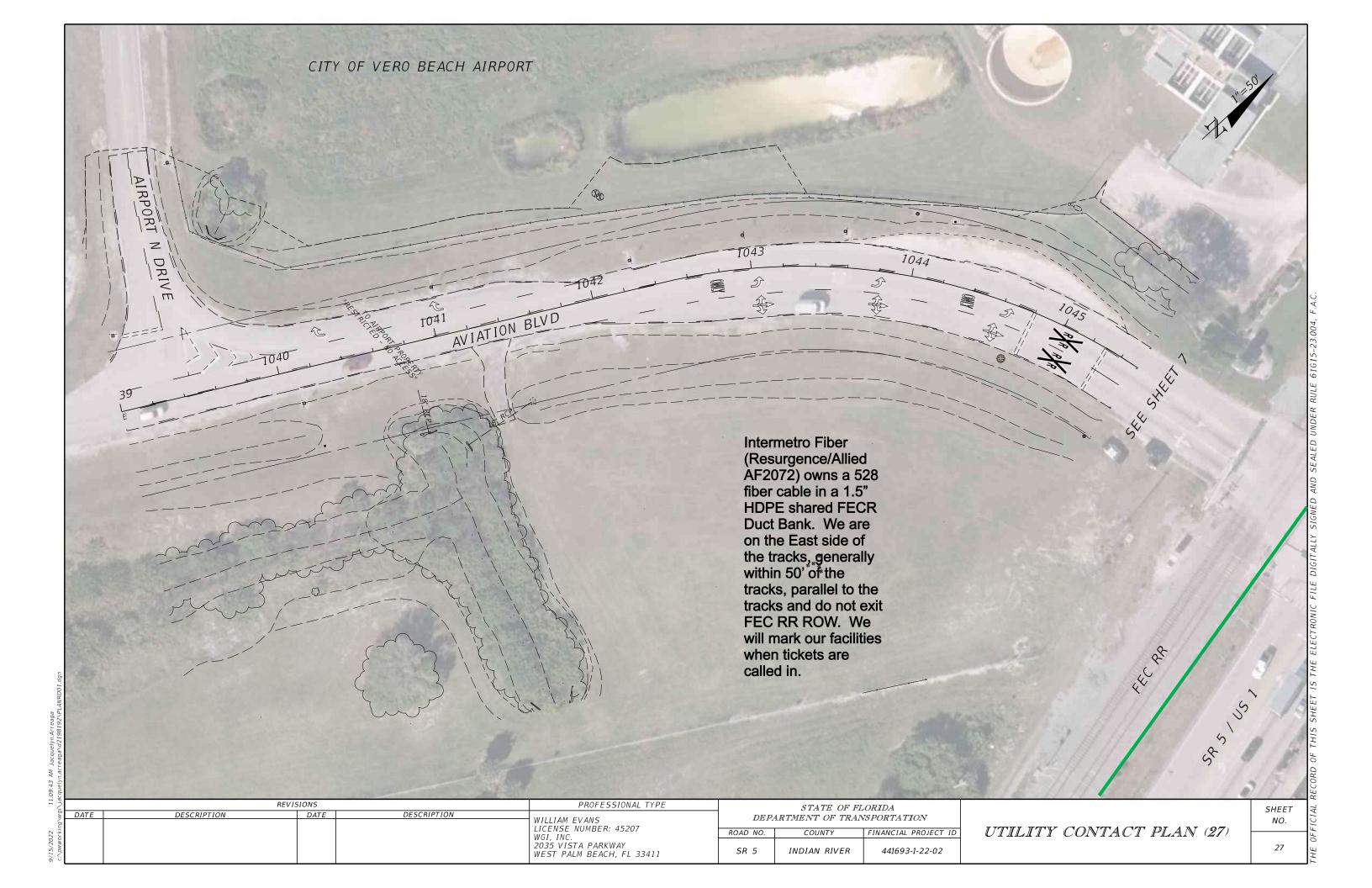












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Appendix D

Sprint

Owen Smith

From: Baker, Jon <jabaker@cogentco.com>
Sent: Wednesday, June 7, 2023 11:19 AM

To: Owen Smith

Subject: [EXTERNAL] RE: FPID 441693-1-22-02: Aviation Blvd PD&E Study from 27th Ave to US1/SR5 and SR5 from 21st St. to 37th St - Utility Greenline Markup Request

Owen,

Sprint's only facilities are within FEC Right of Way in a leased FEC owned 2" conduit. If your project will be impacting FEC ,please reach out to them for as-builts and coordination. If your project will not be impacting FEC R/W then we anticipate no involvement.

Let me know if you have any questions or need anything else.

My apologies for the slow response.

Thank You,

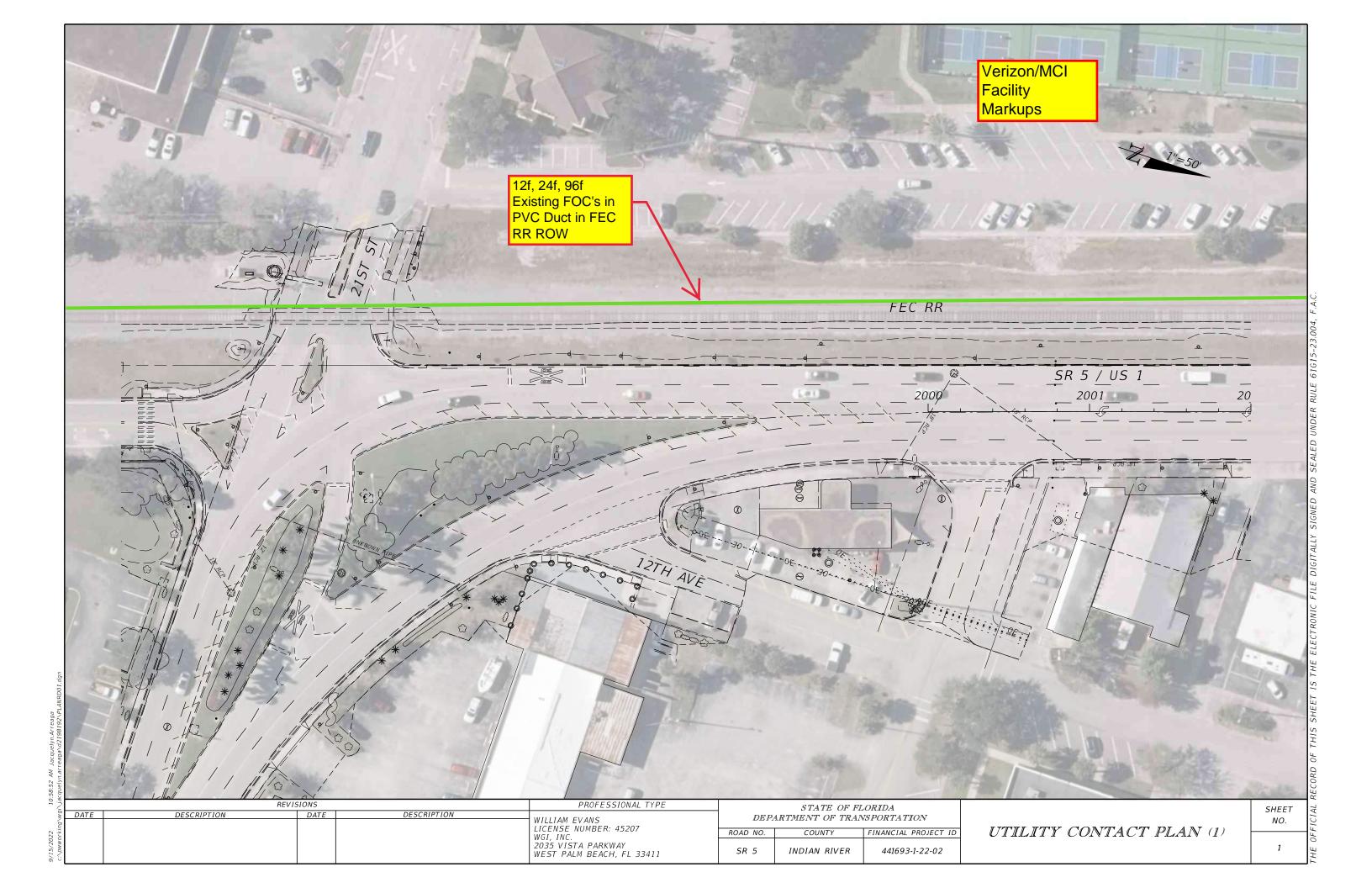
Jon A. Baker Outside Plant Engineering East Cogent Communications, Florida – Remote Contact: 352-409-5095 jabaker@cogentco.com

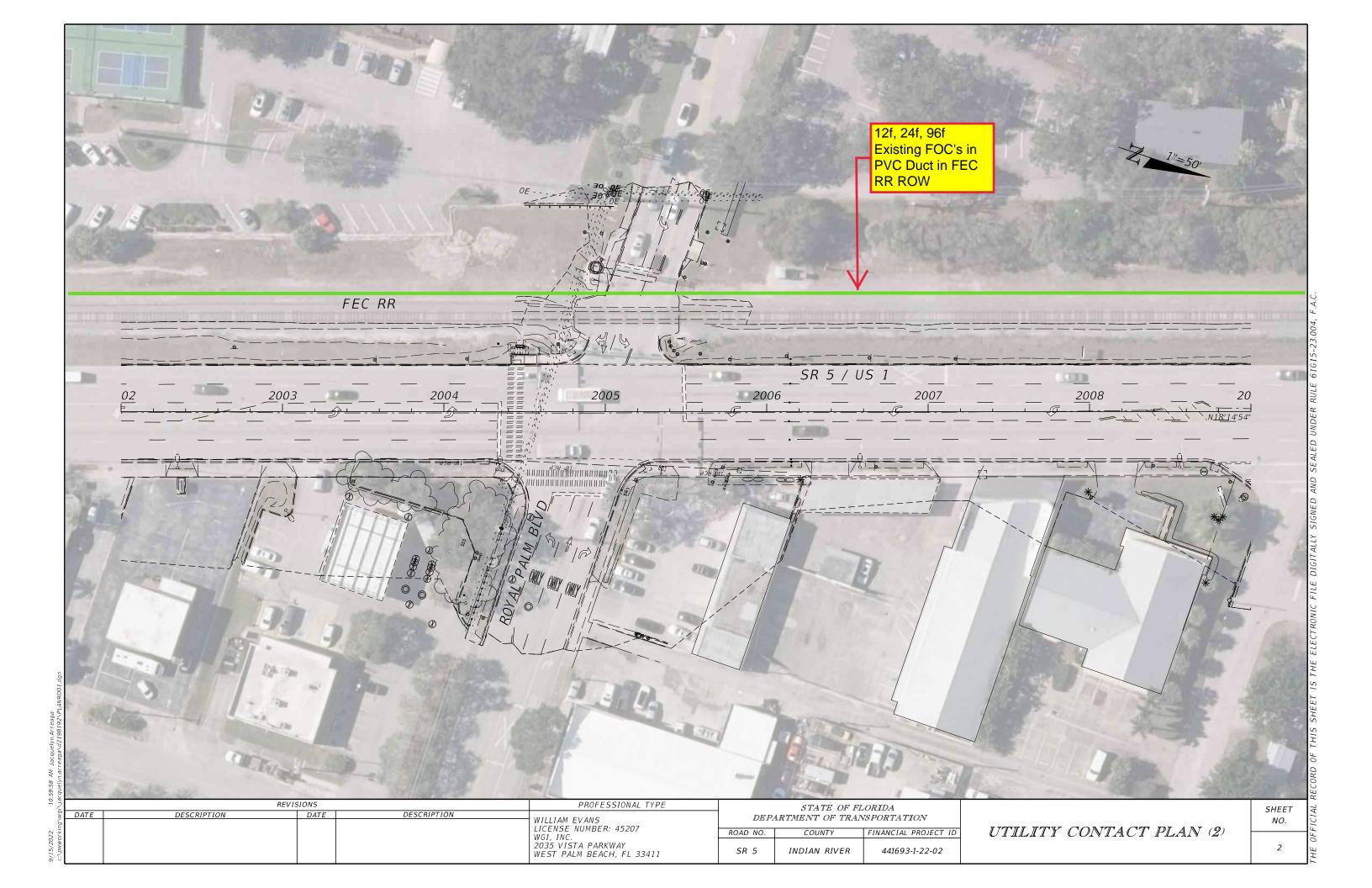


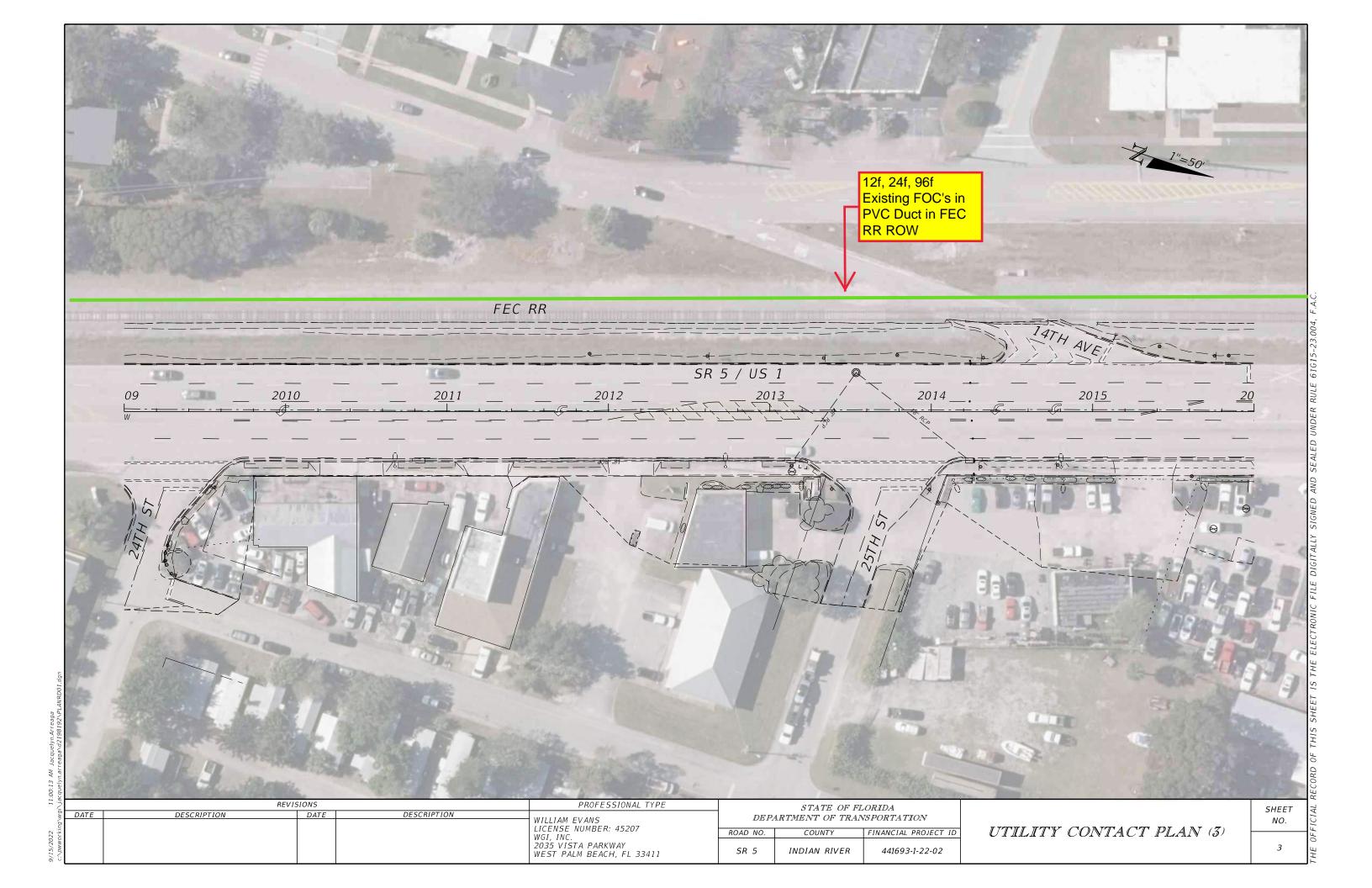
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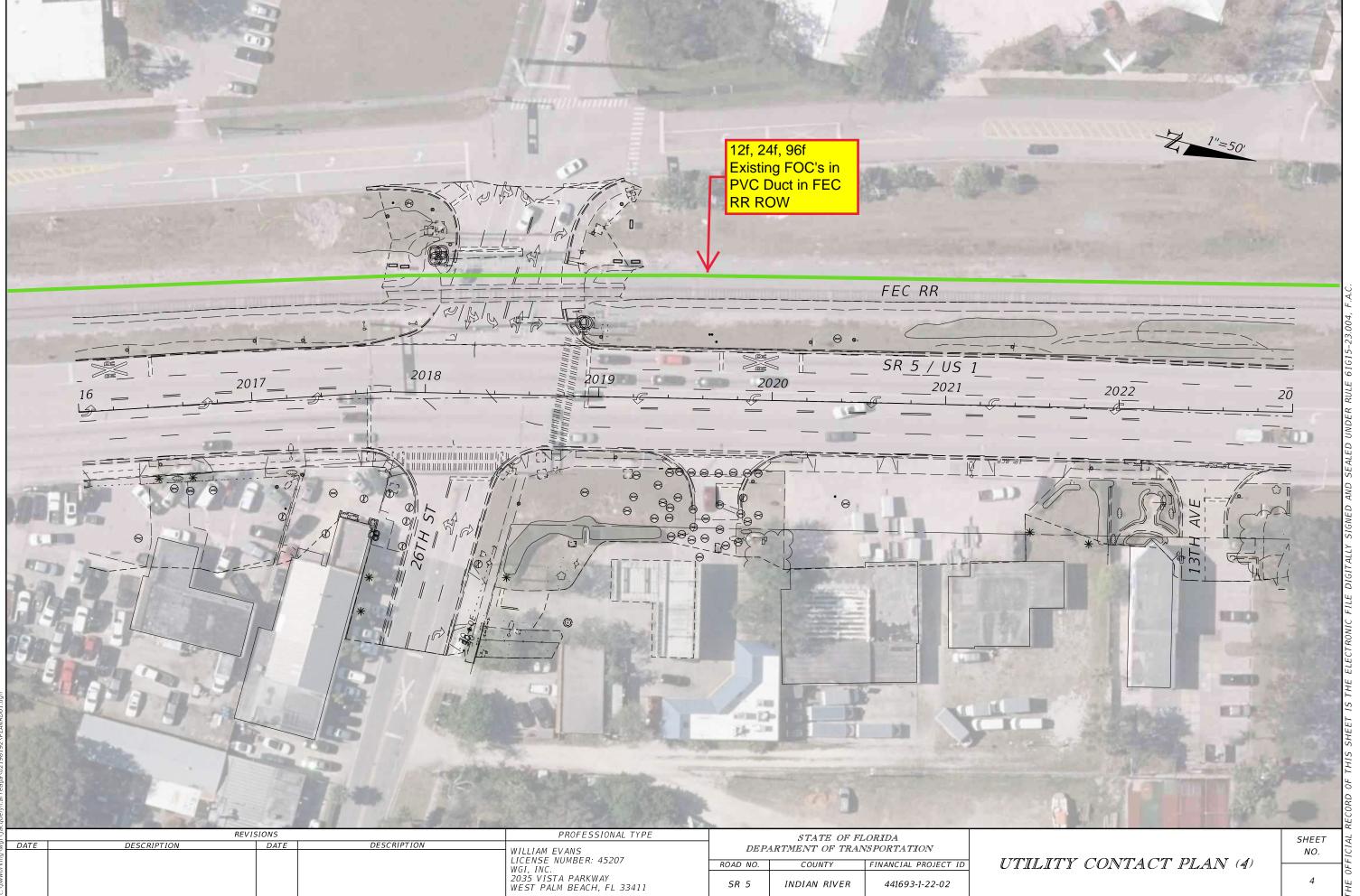
Appendix D

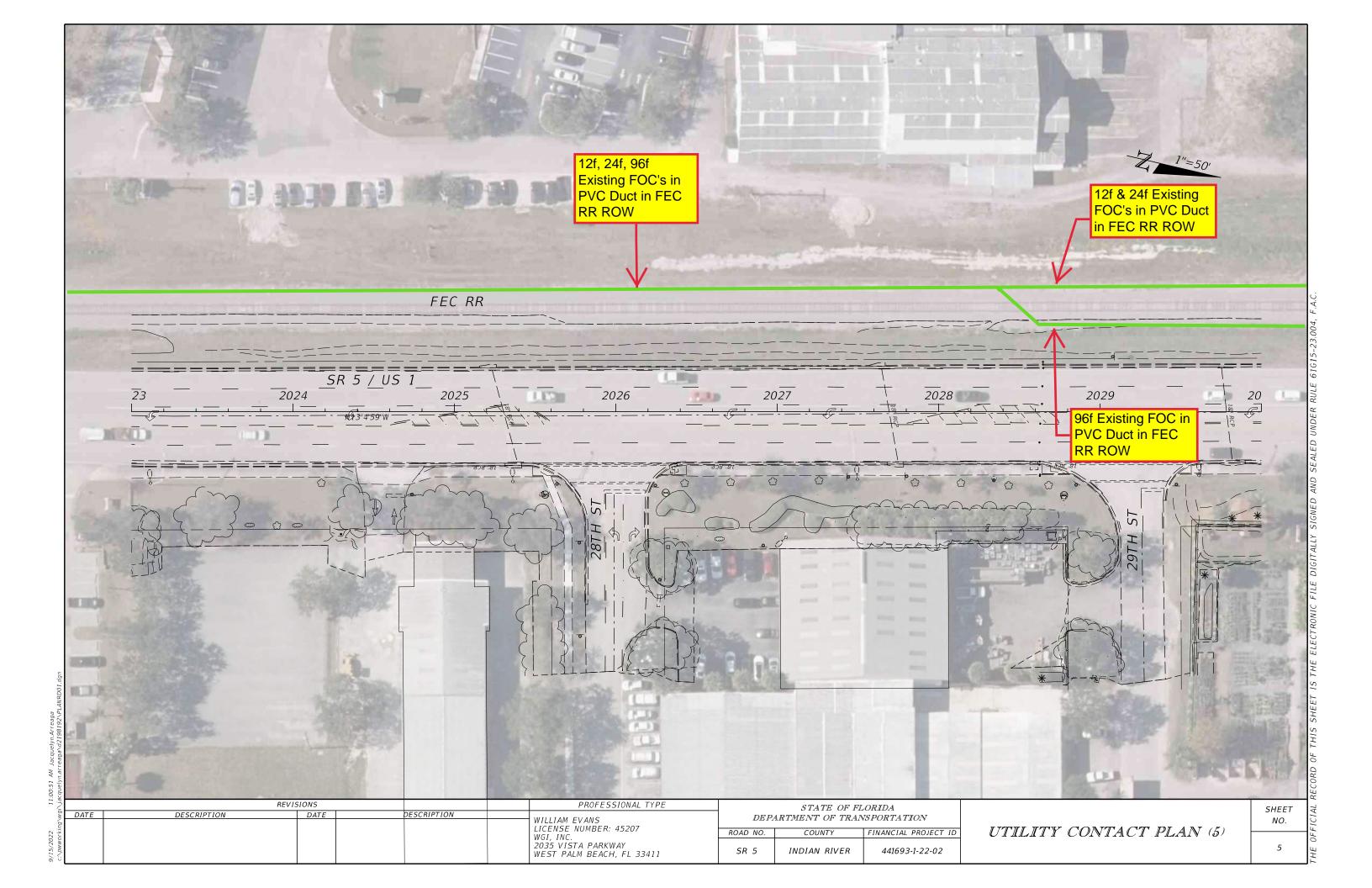
Verizon /MCI

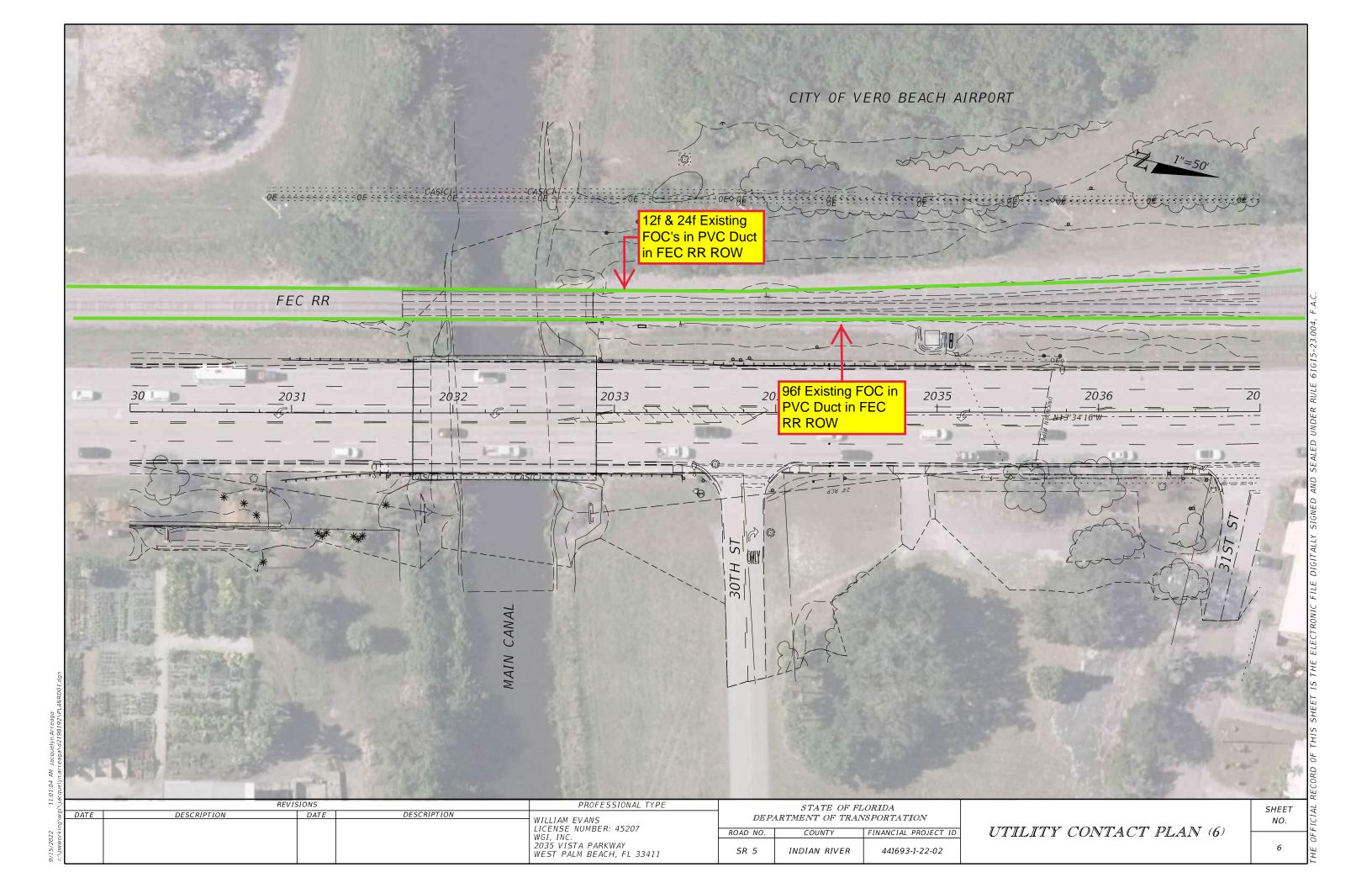


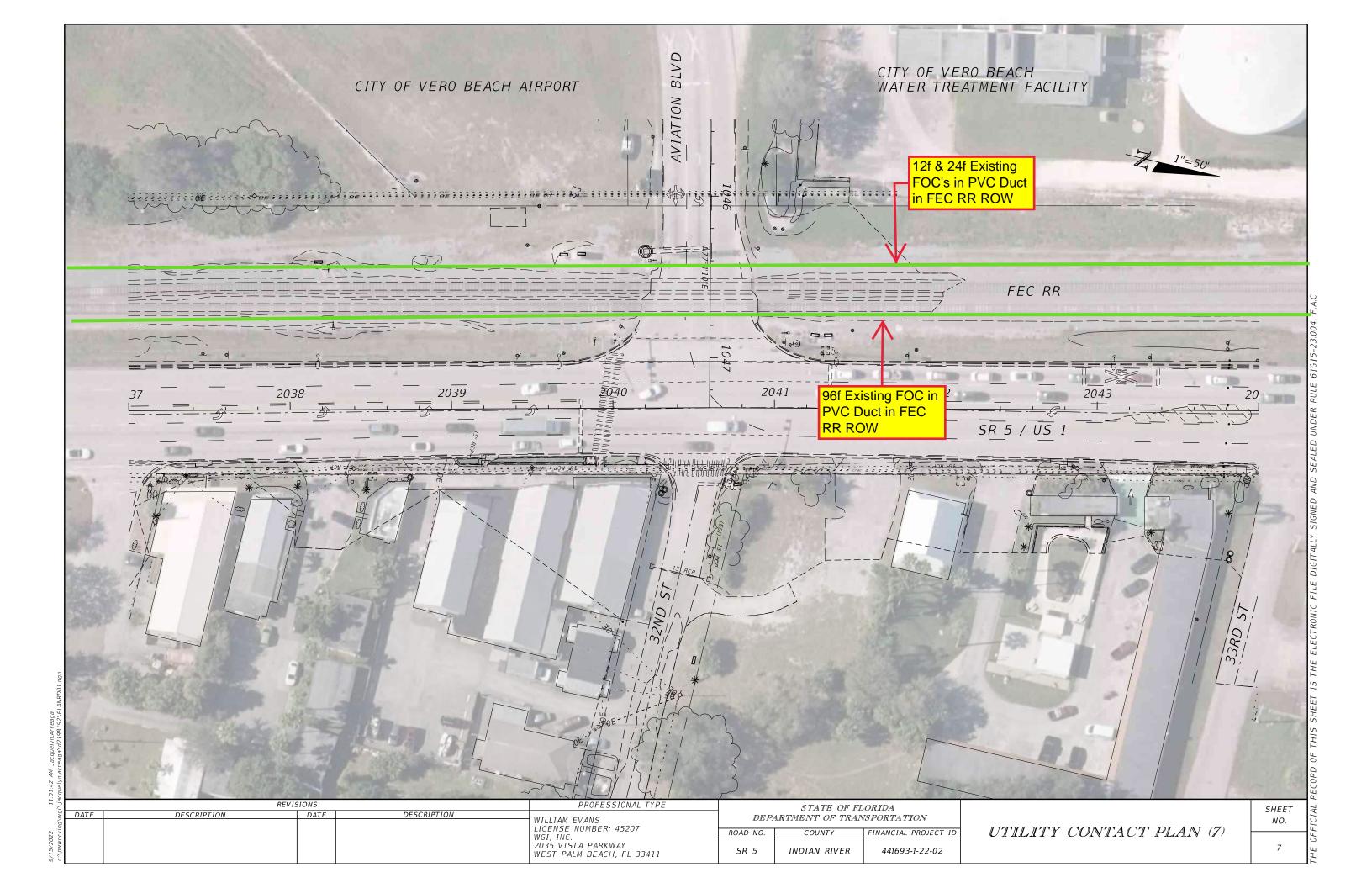


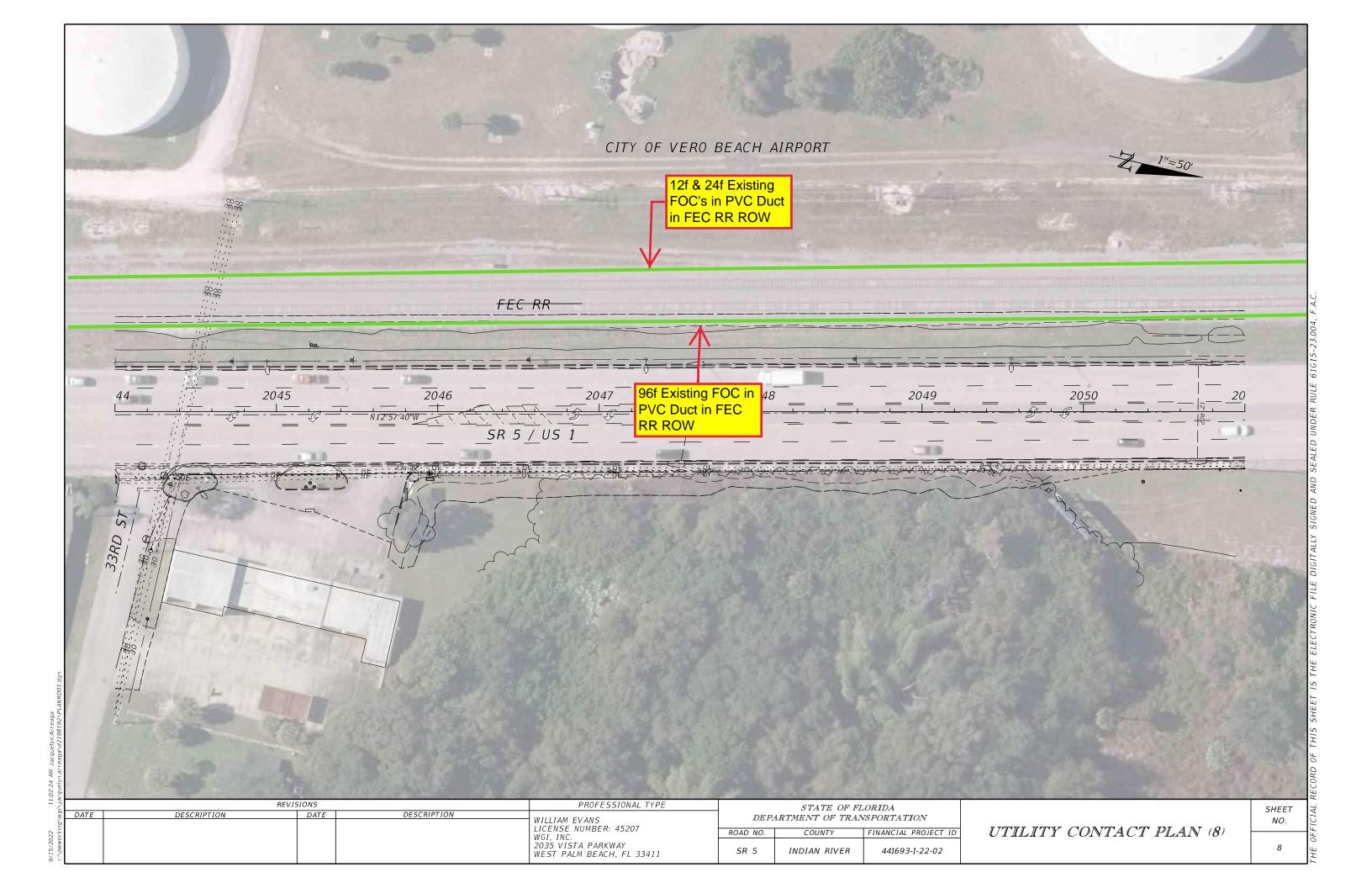


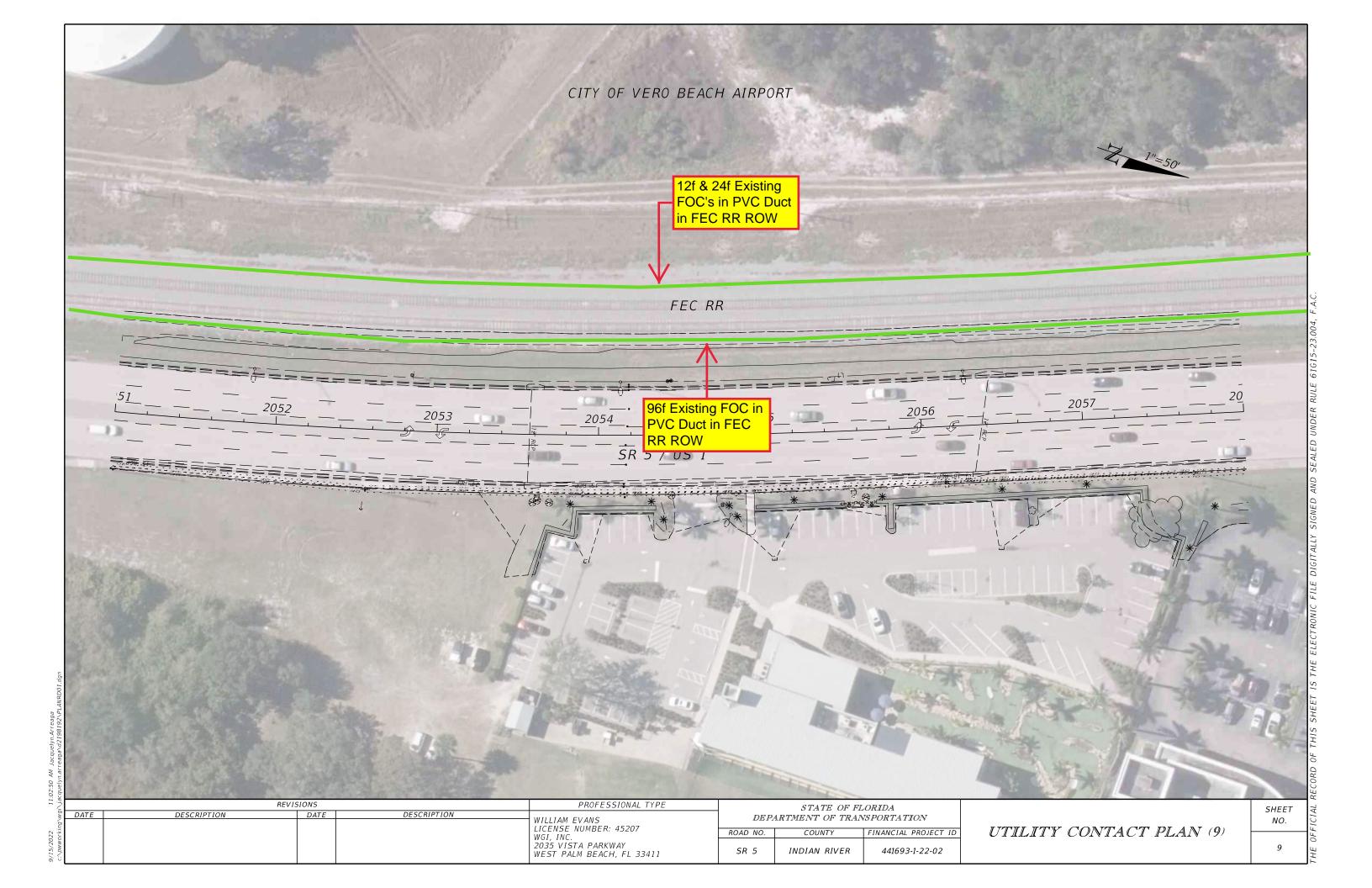


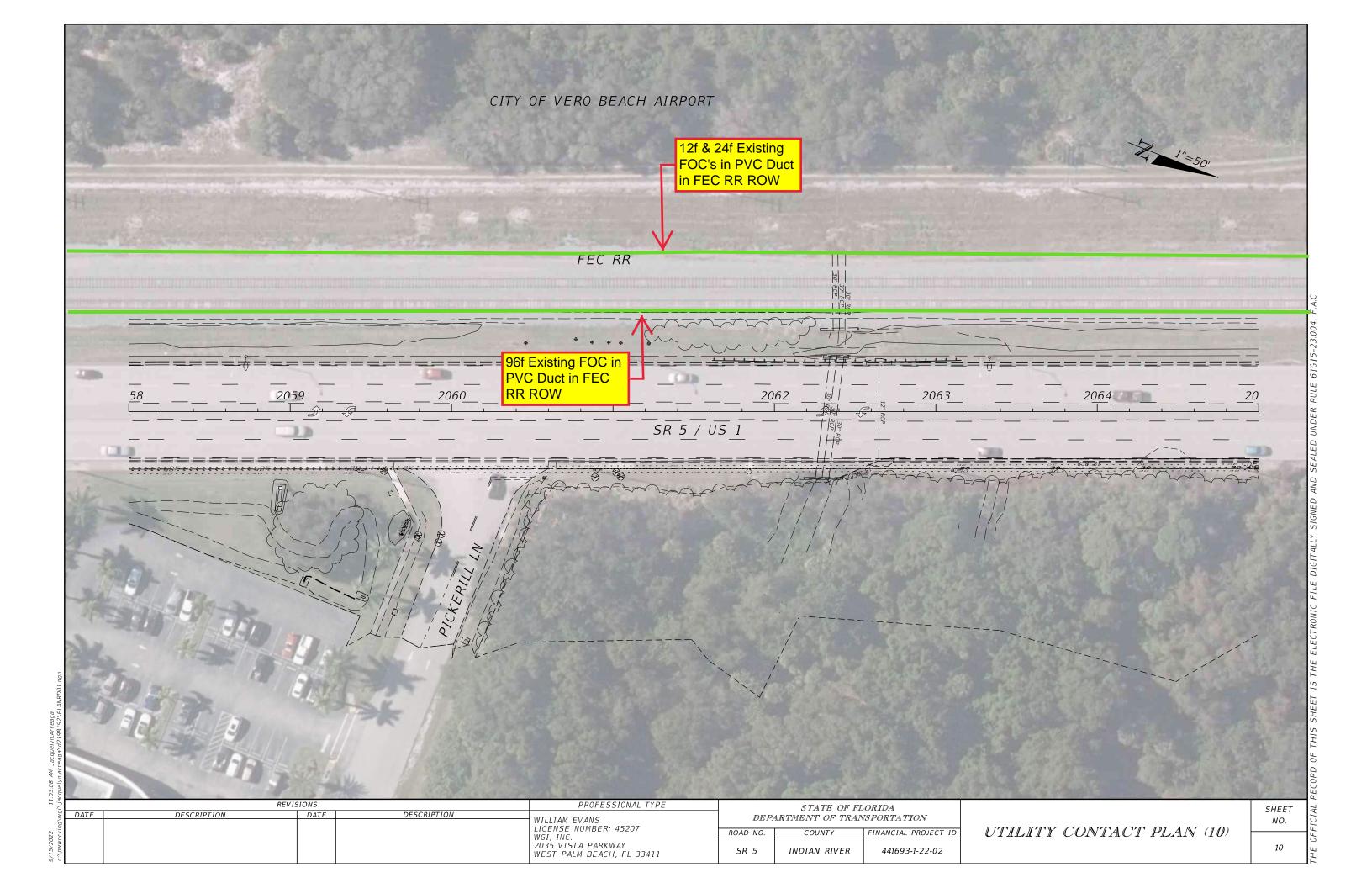


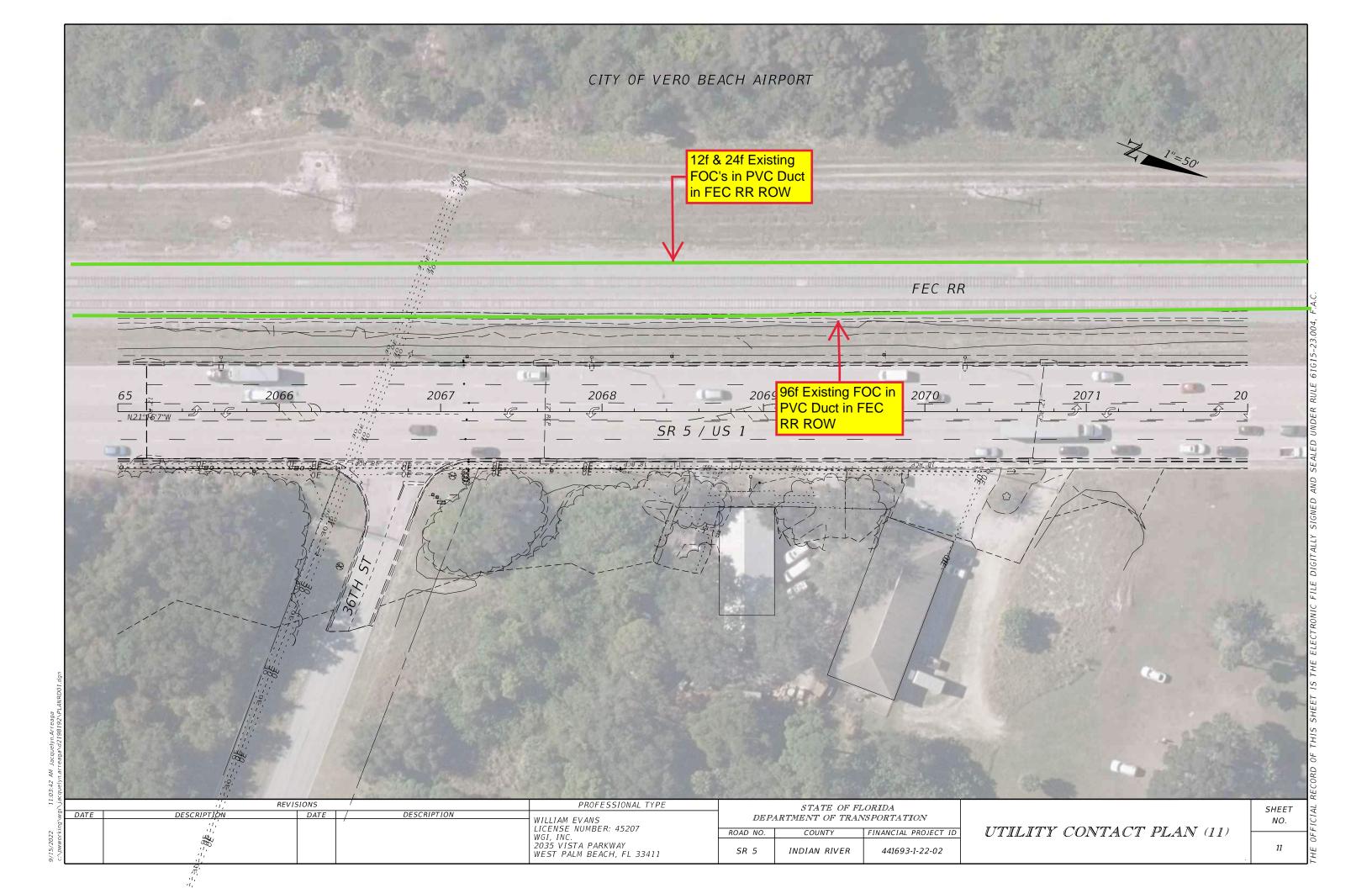


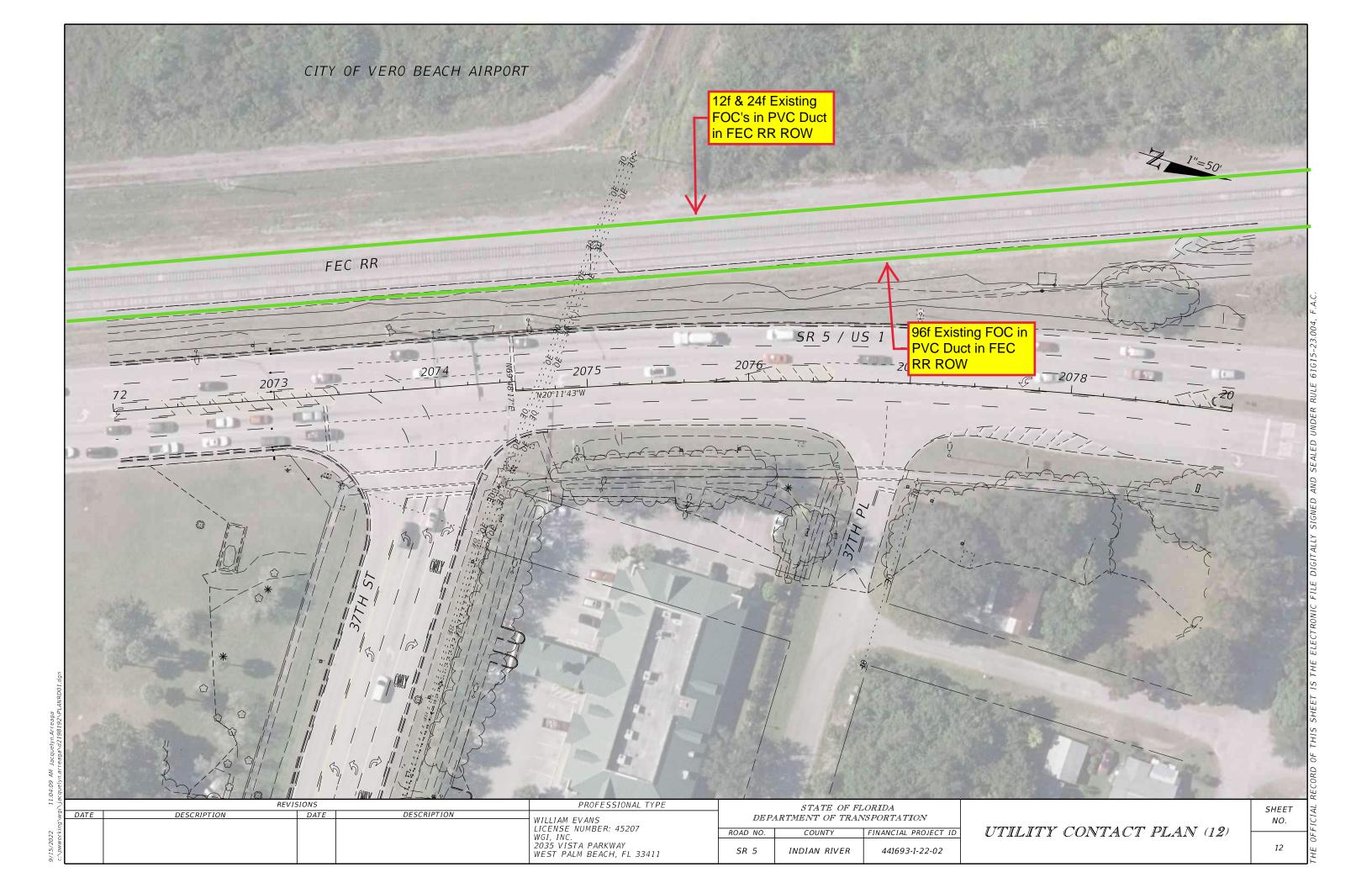


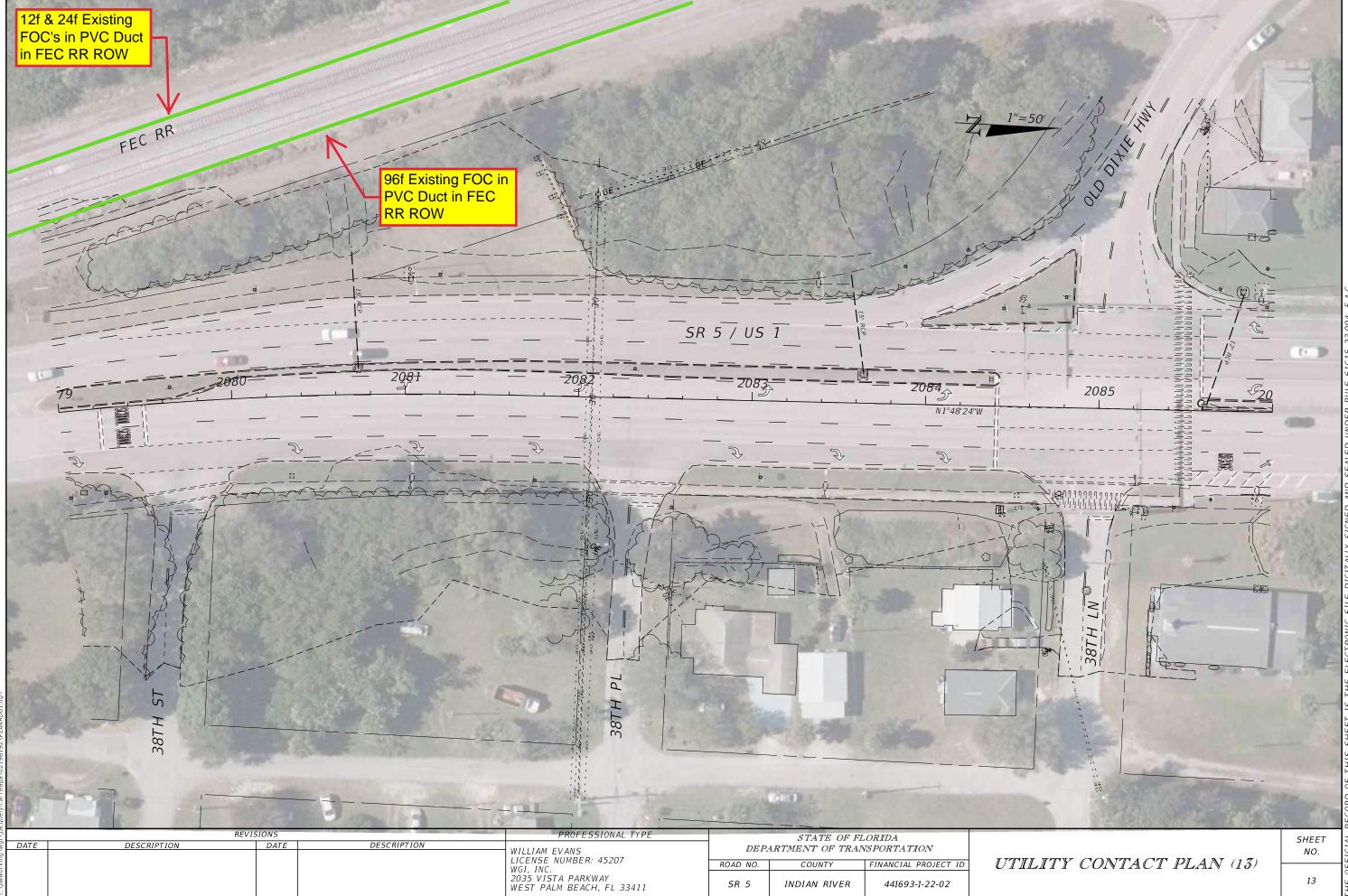


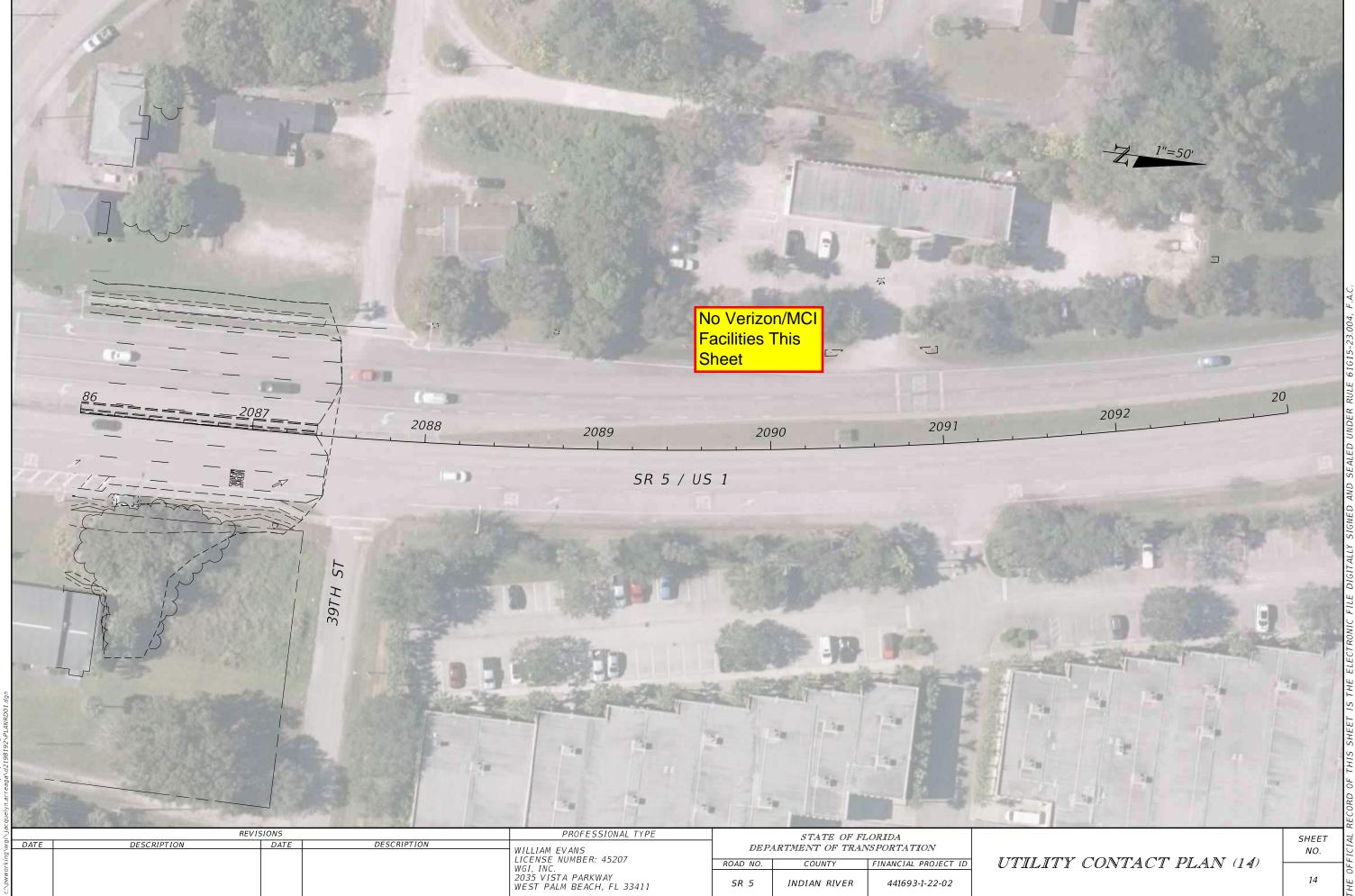
















9/15/2022 11:06:09 AM Jacquelyn.Arrea

