Utility Assessment Package

U.S. 41 (S.R. 45) at S.R. 54 PD&E Study
From South of S.R. 54 Intersection
to North of S.R. 54 Intersection
Pasco County, Florida

Work Program Item Segment No: 419182-1
Efficient Transportation Decision Making (ETDM)
Number: 7883

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

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1 Introduction

The Florida Department of Transportation (FDOT) is conducting a Project Development and Environment (PD&E) Study to evaluate capacity and operational improvements at the intersection of United State (U.S.) Highway 41/State Road (S.R.) 45 and State Road (S.R.) 54 in Pasco County, Florida. Each roadway is a six-lane divided facility intersecting at-grade with a box span traffic signal. U.S. 41 is a major north-south arterial that provides access to Tampa, Lutz, Land O' Lakes, and Brooksville. S.R. 54 is a major east-west arterial that connects U.S. 19 near New Port Richey to the west and U.S. 301 in Zephyrhills to the east.

2 Project Location and Limits

The length of the project is approximately 1.7 miles along U.S. 41, with limits on S.R. 54 from approximately 1.2 miles east and 1.2 miles west of the intersection, as well as a 0.3-mile section of S.R. 597 (Dale Mabry Highway). This intersection is located in the Land O' Lakes area of unincorporated Pasco County, Florida, as shown in **Figure 1**. This intersection is under the jurisdiction of FDOT.

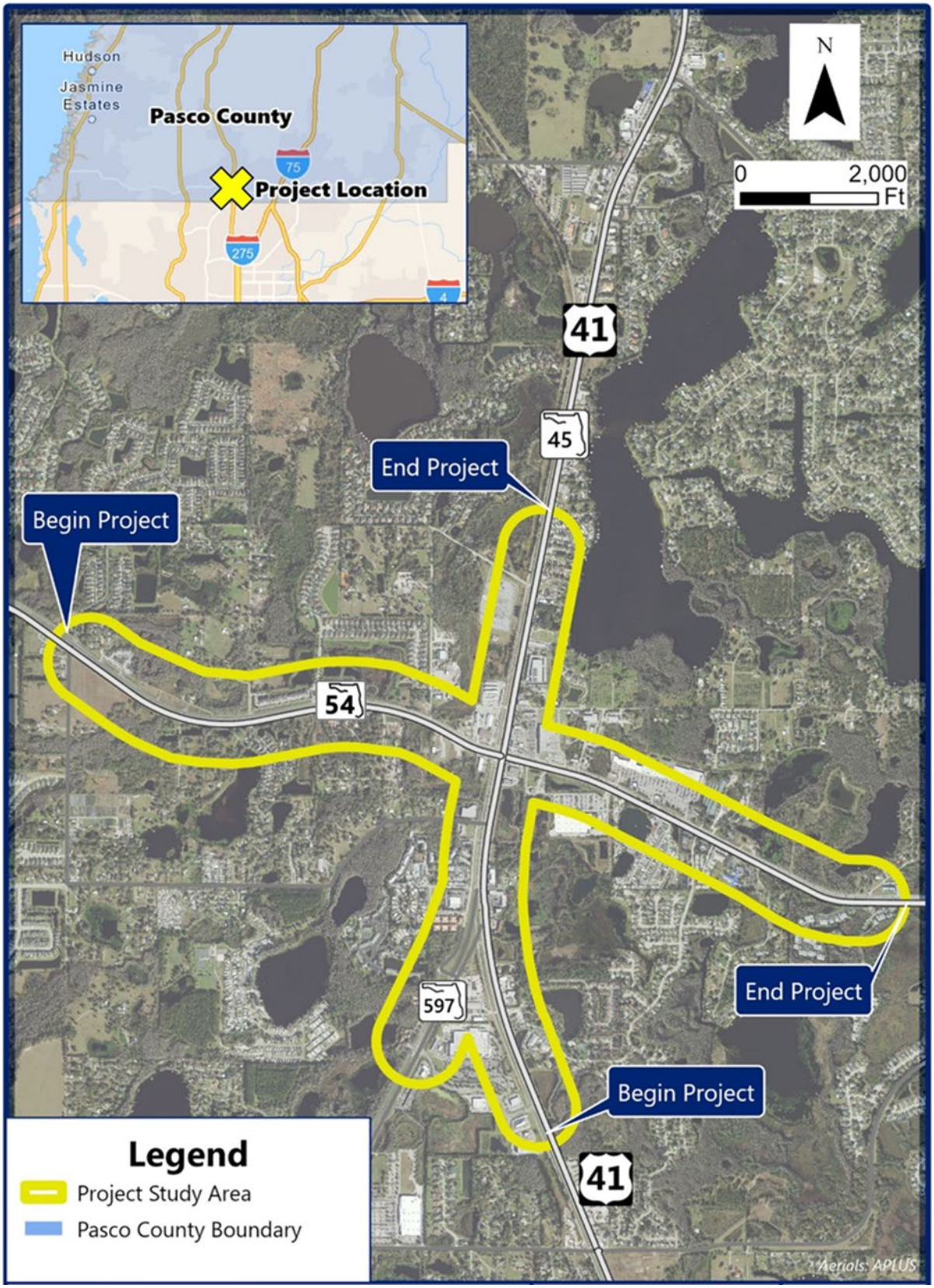

Figure 1 Project Location Map

3 Utility Agency Owners Facilities

The preliminary utility coordination and investigation effort was conducted through written and verbal communications with the existing utility owners. To obtain a listing of existing utility owners, a Sunshine State 811 inquiry of Florida's Design Ticket System was acquired on March 28, 2024. The 811 Design Ticket is provided in **Appendix A**. **Table 1** provides the list of existing utility agency owners from the 811 Design Ticket.

Table 1 Utility Agency Owners

Utilities	Utility Type	Contact Person
Charter Communications	Cable/Fiber	Duffy McClelland (352) 527-2189
Florida Governmental Utility Authority	Sewer/Water	David Gillette (727) 372-0115
Florida Gas Transmission	Gas	Joseph E. Sanchez (407) 838-7171
Zavo Group/Formerly Lightwave, LLC	Fiber	Henry Klobucar (406) 496-6510
Duke Energy – St. Petersburg	Electric	Duke's Customer Service Center (407) 629-1010
Frontier Communications	CATV/Communication Lines	Toni Cannon (813)875-1014
Lumen	Fiber	Lumen/Century Link (877)366-8344 x2
MCI	Communication Lines/Fiber	Investigations Team (800) 624-9675 x2
Pasco County Traffic Operations Division	Street Lights/Traffic Control	Venkat Vattikuti (727) 847-8139
Pasco County Utilities	Reclaimed Water/Sewer/Water	George Demint (813) 235-6189 x6940
TECO Peoples Gas – Gas Tampa	Gas	Joan Domning (813) 275-3783
Uniti Fiber LLC	Fiber	Charlie Croft (251) 214-7059
Charter Communications	CATV	Gene Gregory (863) 333-4763

Initially, verbal communication was made to all utility agency owners outlining the investigation effort along with the project limits. Several teleconferences were held with individual utility owners to discuss their facilities and evaluate potential surface and subsurface utility conflicts associated with the proposed alternatives for the improvements. To verify existing utilities within the corridor, the Senior Utility Coordinator also made a field visit to the project site. The list of utility agencies owners (UAO) known to operate utilities within the project corridor includes:

- Spectrum Sunshine State LLC
- Florida Gas Transmission
- CenturyLink/Lumen (Level 3)
- Pasco County Traffic Services
- Pasco County Utilities
- Duke Energy (Distribution and Transmission)
- TECO Peoples Gas
- Frontier Florida LLC
- MCI Metro Access transmission Services
- Florida Governmental Utility Authority (FGUA)
- Uniti Fiber, LLC
- Zayo Group, LLC

For the report's preparation, utility owners were provided with aerial based plans depicting the existing roadway overview within the proposed project limits. Using these aerial plans as a base map, each utility owner was asked to indicate their existing and proposed utilities as well as any easements that may affect their reimbursement rights for potential relocations of their facilities. In response, all utility owners replied via written communications. The utility owners provided the requested information concerning their facilities using either the aerial plans or reference documentation (i.e. "As Builts" or GIS maps). "Marked" Plans or reference documentation. The utility agency owners "marked" aerials are provided in **Appendix B.**

3.1.1 Spectrum Sunshine State LLC (FKA: BHN)

Spectrum owns fiber-optic aerial cable attached to Duke Energy overhead electric (OE) Distribution poles from the west on the north side of S.R. 54 to east of Devonoak Boulevard where it risers down and continues underground eastward to the east right-of-way of U.S. 41. Spectrum also owns fiber-optic aerial cable attached to Duke Energy's Distribution poles within the east right-of-way of U.S. 41 throughout the entire project. They also own a fiber-optic aerial cable attached to Duke Energy Distribution poles from the southeast corner of S.R. 54 and U.S. 41 proceeding east throughout the entire project limits.

S.R. 597

Spectrum has an underground fiber network along the western roadway right-of-way that runs from the southern project limits to the intersection to Leonard Road and U.S. 41.

U.S. 41

Spectrum has an aerial fiber network, attached to Duke Energy OE Distribution Poles, along the western roadway right-of-way that runs from the southern project limits to the intersection to Brinson Road and U.S. 41. This aerial network runs continues northward, attached to Duke Energy OE Poles, along the eastern roadway right-of-way to the beyond the project limits near Morgan Road

S.R. 54

From the western project limits near Wilson Road, Spectrum has an aerial fiber network, attached to Duke Energy OE Poles, along the northern roadway right-of-way to the intersection of Devonoak Boulevard. Immediately east of Devonoak Boulevard, Spectrum fiber network continues underground along the north roadway right-of-way to the east approach of U.S. 41 terminating at another Spectrum aerial fiber network along U.S. 41. Approximately 650 feet west of Sofia Dr along the S.R. 54 south right-of-way, Spectrum has an underground fiber network that runs approximately 250 feet west of the intersection of S.R. 54 and U.S. 41.

3.1.2 Florida Gas Transmission (AKA: FGT)

Florida Gas Transmission owns a 36-inch and a 30-inch high-pressure natural gas transmission main running parallel to U.S. 41 within the CSX railroad right-of-way or within a private Utility Easement (U.E.) throughout the entire project limits. All future design and construction of FDOT improvements must adhere to the Agreement and Global Settlement between Florida Gas Transmission and FDOT dated August 21, 2013.

S.R. 597

No Facilities

U.S. 41

From the intersection of S.R. 597 and U.S. 41 FGT has a 30-inch high pressure pipeline and 36-inch high pressure pipeline that run along the western roadway right-of-way of U.S. 41. These FGT pipelines run continues northward in the western roadway right-of-way of U.S. 41 terminating at the northern project limits near Morgan Road.

S.R. 54

No Facilities

3.1.3 CenturyLink/Lumen (Level 3)

CenturyLink owns a major network of fiber optic cable within (1) 1.25-inch HDEP ducts and (1) 1.5-inch duct bank running parallel to U.S. 41 within the CSX railroad right-of-way throughout the entire project limits.

S.R. 597
No Facilities

U.S. 41
From the intersection of S.R. 597 and U.S. 41, CenturyLink has one 1.5-inch and one 1.25-inch encased in two high-density polyethylene (HDPE) underground conduits that run along the west roadway right-of-way of U.S. 41 in CSX Railroad Right-of-way. This Level 3 run continues throughout U.S. 41 terminating at the northern project limits near Morgan Road.

Similarly, CenturyLink has leased (Spectrum) aerial fiberoptic cable (FOC), attached to Duke Energy OE Distribution poles, running along the east side of U.S. 41 from the southern project limits along U.S. 41 terminating at the northern project limits near Morgan Road.

S.R. 54
Similarly, CenturyLink has leased (Spectrum) aerial FOC, attached to Duke Energy OE Distribution poles, running along the south side of S.R. 54 from the intersection of U.S. 41 to the eastern project limits near the intersection of S.R. 54 with Osprey Lane.

3.1.4 Pasco County Traffic Services

Pasco County Traffic Services maintains the signalization of the intersection with no underground interconnection to other intersections. Each roadway is a six-lane divided facility intersecting at-grade with a box span traffic signal. The preferred alternate will result in major changes in the signalization control of the U.S. 41 intersection with S.R. 54. This will directly impact Pasco County Traffic Services.

3.1.5 Pasco County Utilities

Pasco County owns a 12-inch water main (WM) within the north side of right-of-way of S.R. 54 and runs from the west to the U.S. 41 western right-of-way where it turns south and proceeds to the right-of-way of S.R. 597. Pasco County also owns a 16-inch WM within the west right-of-way from the northern project limit proceeding south to the northern right-of-way of U.S. 41 where it turns east crosses under S.R. 54 and proceeds east out of the eastern project limits. Additionally, there are multiple 8-inch WM crossings at most major intersections. Pasco County owns an 8-inch forced main (FM) within the southern right-of-way of S.R. 54.

S.R. 597
Pasco County Utilities has an 8-inch WM that runs from beyond the southern limits of the project to the intersection of S.R. 597 and U.S. 41. Pasco County Utilities also has a 6-inch FM the runs from beyond the southern limits of the project to the intersection of S.R. 597 and U.S. 41.

U.S. 41

Pasco County Utilities has an 8-inch FM that runs along the east side of U.S. 41 roadway right-of way. Where this 8-inch FM crosses S.R. 54, it continues along U.S. 41 as 12-inch FM to the beyond the project limits near the intersection of U.S. 41 and Morgan Road. Pasco County also has a 12-inch WM that runs along the western side of U.S. 41 roadway right-of-way to a crossing of S.R. 54. Beyond the crossing of S.R. 54 the 12-inch WM expands to a 16-inch WM facility that runs beyond the project limits near Morgan Road.

S.R. 54

Pasco County has an 8-inch FM that runs along the south side of the roadway right-of-way from beyond the western project limits near Wilson Road to beyond the eastern project limits near Osprey Lane. Pasco County also has a 12-inch WM that runs along the north roadway right-of way from beyond the western project limits near Wilson Road to the intersection with U.S. 41. Beyond the crossing of U.S. 41, Pasco County 12-inch WM expands to 16-inch WM and continues eastward to beyond the project limits near Osprey Lane.

From the west, Pasco County has an 8-inch FM to approximately 300 feet east of U.S. 41 where it transitions to a 16-inch FM. Pasco County also owns an 8-inch FM within the western right-of-way of S.R. 597 that crosses at the merger with U.S. 41 to the eastern right-of-way and runs south for approximately 500 feet and north 1500 feet.

3.1.6 Duke Energy

Duke Energy owns and operates both Distribution and Transmission facilities.

Distribution:

Aerial power within both the north and the south rights-of-way of S.R. 54 throughout most of the project limits, as well as aerial power within the eastern right-of-way of U.S. 41 through the project limits. They own multiple service crossings throughout the project limits.

S.R. 597

Duke Energy has a 12.47 KV OE line and 120 V BE facility that runs from approximately 600 feet south of Brinson Road to a west to east roadway crossing at the intersection of U.S. 41.

U.S. 41

From south of Brinson Road to south of the intersection of S.R. 54, Duke Energy has a 12.47 KV OE line and a 120 V BE line running along the west side of the roadway right-of-way. The 12.47 KV OE line continues northward along the west roadway right-of-way to beyond the project limits in the vicinity of Morgan Road.

From the south project limits near Lake Floyd Dr, Duke Energy has a 12.47 KV OE line that runs northward along the east roadway right-of-way to beyond the project limits in the vicinity of Morgan Road.

S.R. 54
From the western project limits near the intersection of Wilson Road, Duke Energy has a 12.47 KV OE line that runs eastward along the north roadway right-of-way to west approach of U.S. 41. From the east approach of U.S. 41, Duke Energy's 12.47 KV OE line continues eastward to beyond the eastern project limits near Osprey Lane.

Transmission:
S.R. 597
Duke Energy has an aerial 230 KV and 69 KV lines along the eastern roadway R/W from 1000 feet south of Brinson Road to a crossing of S.R. 597 adjacent to the intersection of U.S. 41.

U.S. 41
The aerial 230 KV and 69 KV lines cross U.S. 41 from west to east and continue northward along the east side of U.S. 41 to north of Leonard Road. Approximately 200 feet North of Leonard Road the 230 KV line crosses U.S. 41 and runs westward and the 69 KV line turns 90 degrees and runs eastward to Mariner Place where this line turns 90 degrees to run northward along the north side of Mariner Place. An Aerial 230 KV joins the 69 KV lines that continue northward crossing Carson Drive and turning 90 degrees westward to cross U.S. 41 with aerial 320 KV and two (2) 69 KV lines. These lines terminate in a proposed Duke Energy Substation approximately 800 feet. south of Morgan Road intersection with U.S. 41.

Duke Energy purchased private property adjacent to the railroad right-of-way within the project limits for installing the "Morgan Road" sub-station which includes a 275-foot-tall communications tower.

S.R. 54
An aerial 69 KV line runs along the south roadway right-of-way west of Wilson Road to a point approximately 500 feet east of Devonoak Boulevard. The aerial 69 KV continues eastward along S.R. 54 to an aerial 230 KV crossing near Hunt Road.

An aerial 230 KV line crosses S.R. 54 approximately 1000 feet west of the S.R. 54 and U.S. 41 Intersection. Duke Energy Denham Substation is approximately 800 feet east of U.S. 41. An aerial 69 KV line runs across S.R. 54 and terminates in the substation.

3.1.7 TECO Peoples Gas

S.R. 597

From the S.R. 597 southern project limits, TECO Peoples Gas owns a 6-inch steel GM that runs along the western S.R. 597 right-of-way to a point approximately 500 feet south of Brinson Road where a 2-inch GM crosses S.R. 597 and the 6-inch line transitions westward to the western roadway right-of-way of Brinson Road and continues adjacent to U.S. 41 to the junction with Leonard Road.

U.S. 41

TECO Peoples Gas also owns a 6-inch steel gas main within the western right-of-way of Brinson Road to north of Leonard Road Approximately 800 feet south of Leonard Road, the 6-inch steel gas main tees off and crosses under U.S. 41 to within the western right-of-way and turns north to S.R. 54 where it runs northward along the west right-of-way of U.S. 41 until the 6-inch GM turns east and proceeds within the southern right-of-way of S.R. 54 throughout the remaining project limits.

S.R. 54

TECO Peoples Gas owns a 2-inch steel gas main from the west on S.R. 54 within the southern roadway right-of-way to approximately 100 feet east of Wilson Road. Immediately opposite Wilson Road on the east side of the roadway right-of-way and north of Wilson Road, TECO Peoples Gas operates regulation stations. TECO Peoples Gas crosses under S.R. 54 to the northern right-of-way, then turns east and proceeds to Devonoak Boulevard where TECO Peoples Gas 2-inch GM turns west and exits FDOT right-of-way.

TECO Peoples Gas owns a 6-inch steel GM that runs east of U.S. 41 along the south S.R. 54 road south roadway right-of-way. Approximately 800 feet east of U.S. 41 the 6-inch GM is joined by a 2-inch GM running adjacent to the 6-inch GM for about 850 feet before a split-off 2-inch perpendicular line turns north and exits the S.R. 54 right-of-way. The 6-inch and 2-inch GMS continue eastward along S.R. 54 to a point near the terminus of the project at Osprey Lane.

3.1.8 Frontier, FL. LLC. (FKA: Verizon)

Frontier FL, LLC owns an extensive network of underground fiber optic cables throughout the study area comprised of multiple ducts and manhole accessed vaults. These facilities are mostly located in the southern right-of-way of S.R. 54 and the eastern right-of-way of U.S. 41.

S.R. 597

From U.S. 41 south of the intersection of S.R. 597 and U.S. 41 running along the west side of S.R. 597 in the roadway right-of way, Frontier has buried FOC and cable in two 2-4-inch conduits.

U.S. 41

From south of S.R. 597 intersection with U.S. 41 beyond the project's southern limits, Frontier has nine 4-inch conduits with buried telephone (BT) on the east side of the roadway right-of-way and eight 4-inch conduit with BT on the west side of the roadway right-of-way.

At the intersection of U.S. 41 and Brinson Road, Frontier has eight 4-inch conduits with BT that cross U.S. 41 and continue northward as a nine 4-inch conduit BT duct Bank along the east side of the U.S. 41 roadway right-of-way to the northern project limits near Morgan Road.

S.R. 54

From the western project limits along S.R. 54 near the intersection Wilson Road, Frontier has a BT in two 4-inch BT conduit on the south side of the roadway right-of-way that continues to the west approach of U.S. 41. Frontier also has a junction of a BT two 4-inch conduit that crosses S.R. 54 and turns northward at the west approach to U.S. 41.

East of U.S. 41 along the south side of S.R. 54, Frontier has a BT 8/79/10-4-inch conduit run that continues along S.R. 54 on the south side of the roadway right-of-way to beyond the project limits near Osprey Lane.

3.1.9 MCI Metro Access Transmission Services

MCI owns an extensive network of aerial and underground communications network.

S.R. 597

From the southern limits of the project, MCI has underground FOC facilities in a 2-inch HDPE along the east side of the roadway rights-of-way to the intersection of S.R. 597 and Brinson Road where MCI FOC facilities cross east to west to run along the western roadway right-of-way of Brinson Road to the juncture of S.R. 597 and U.S. 41/Brinson Road.

U.S. 41

From the S.R. 597 intersection of U.S. 41 running northward, MCI has underground FOC in a 2-inch HDPE along west roadway right-of-way of S.R. 597 and U.S. 41. At the intersection of Leonard Road and U.S. 41, MCI underground FOC facilities make a west to east crossing of U.S. 41 and continue northward along the east roadway right-of-way of U.S.41 crossing S.R. 54 to the northern project limits near Morgan Road.

S.R. 597

From the south limits of the project, MCI has underground FOC facilities in a 2-inch HDPE along the east side of the roadway rights-of-way to the intersection of S.R. 597 and Brinson Road

where MCI FOC faculties cross east to west to run along the western roadway right-of-way of Brinson Road to the juncture of S.R. 597 and U.S. 41/Brinson Road.

U.S. 41

From the S.R. 597 intersection of U.S. 41/Brinson Road southern running northward MCI has underground FOC in a 2-inch HDPE along west roadway right-of-way of S.R. 597 and U.S. 41. At the intersection of Leonard Road and U.S. 41, MCI underground FOC facilities make a west to east crossing of U.S. 41 and continue northward along the east roadway right-of-way of U.S.41 crossing S.R. 54 to the northern project limits near Morgan Road.

S.R. 54

From the western limits of the project to Devonoak Boulevard, MCI facilities are attached to existing Duke Energy OE Poles along the north roadway right-of-way. From this point MCI facilities are underground FOC in a 2-inch HDPE conduit to the east approach of U.S. 41.

3.1.10 Florida Governmental Utility Authority (FGUA)

FGUA owns a system of underground water utilities that is principally situated along S.R. 54.

S.R. 597

No Facilities

U.S. 41

South of the intersection of S.R. 597 and U.S. 41, near the southern limits of the project and opposite Lake Floyd Dr, FGUA has a west to east crossing of an 8-inch WM and a 6-inch FM. Additionally, south of Lake Floyd Dr running northward, FGUA has a 2-inch WM situated in the east roadway right-of-way.

S.R. 54

From west of Osprey Lane running eastward along the north roadway right-of-way, FGUA has a 12-inch WM that transitions to an 8-inch WM that crosses S.R. 54 from north to south at the intersection of Daiquiri Lane and continues southward along the Daiquiri Lane roadway right-of-way.

West of Osprey Lane and crossing S.R. 54 from north to south, FUGA has an 8-inch gravity sewer (GS) and 8-inch WM. Branches of the 8-inch GS and 8-inch WM turn south to follow Osprey Lane's roadway right-of-way. West of Osprey, a 16-inch FM runs eastward along the south S.R. 54 roadway right-of-way to beyond the project limits.

3.1.11 Unit Fiber, LLC

Uniti Fiber owns an extensive underground communications network that is principally situated in a 7-Way conduit system.

S.R. 597

No Facilities

U.S. 41

From the southern project limits south of the S.R. 597 intersection of U.S. 41/Brinson Road running northward, Uniti Fiber has underground BFOC in a 7-way conduit network along east side of the roadway right-of-way of U.S. 41. Uniti Fiber underground FOC facilities continue along the east side of U.S. 41 to the northern project limits near the intersection at Morgan Road.

S.R. 54

From the western limits of the project to Devonoak Boulevard, Uniti Fiber 7-way conduit BFOC network runs eastward along the south roadway right-of-way of S.R. 54. These facilities continue eastward crossing U.S. 41 and continue to the east project limits in the vicinity of the intersection of S.R. 54 and Osprey Lane.

3.1.12 Zayo Group, LLC

Zayo owns an extensive underground communications network that is principally situated in a 3-Way 1.25-inch HDPE conduit system.

S.R. 597

From the south limits of the project, Zayo has underground FOC facilities in a 3-Way 1.25-inch HDPE along the east side of the S.R. 597 roadway rights-of-way to the intersection of S.R. 597 and Brinson Road where Zayo FOC faculties cross east to west to run along the western roadway right-of-way of S.R. 597 to the juncture of S.R. 597 and U.S. 41. At this juncture Zayo facilities cross west to east to run northward along the east right-of-way of U.S. 41.

U.S. 41

From the S.R. 597 intersection of U.S. 41 running northward, Zayo has underground FOC in a 3-Way 1.25-inch HDPE conduit network along east side of the roadway right-of-way of U.S. 41. Zayo underground FOC facilities continue along the east side of U.S. 41 to the northern project limits near the intersection at Morgan Road.

S.R. 54

From the intersection of U.S. 41, Zayo conduit network facilities run eastward along the south roadway right-of-way of S.R. 54. These facilities continue eastward crossing U.S. 41 and continue to the east project limits in the vicinity of the intersection of S.R. 54 and Osprey Lane.

4 Utility Adjustment Cost Estimates

A request was made to all utility agencies/owners for adjustment cost estimates of their facilities within the study limits for the preferred typical section and alternate route.

Table 2 identifies the estimated utility adjustment costs for the preferred alternative. Duke Energy provided cost estimates for the relocation of the electrical sub-station east of U.S. 41 that could be as low as $10 million to as high as $30 million depending on the cost of the property and how far away it is from the current location. This estimate was not included in the Preferred Alternative costs.

It should be noted that several utilities are currently located under the proposed paved travel way and the cost estimates include relocating these facilities. The adjustment costs can be reduced significantly if these utilities are permitted to remain within the travel way. Approval would need to come from the Florida Department of Transportation (FDOT). Additionally, Florida Gas Transmission and Duke Energy – Transmission have facilities (situated in proprietary easements) may make adjustments of their facilities (including easement replacements costs) potentially eligible for FDOT reimbursement. **Table 3** shows the estimated potential reimbursable costs for these two UAOs.

It should also be noted that UAOs may experience long lead times associated with material acquisition (i.e. power poles, communication cable & fiber, water & gas pipes, mast arms). As appropriate, these material acquisition issues should be evaluated during the project's design phase and documented in the UAO utility work schedule documents.

Also, if Subsurface Utility Engineering (SUE) is performed during the design phase of the project, some utility impacts may potentially be avoided and/or minimized.

Table 2 Utility Adjustment Costs

Utility Agency Owner (UAO)	Estimated Adjustment Costs (millions)
Spectrum Sunshine State, LLC	$1.32
Florida Gas Transmission	$1.36
CenturyLink/Lumen (Level 3)	$1.66
Pasco County Traffic Services	$1.00
Pasco County Utilities	$2.96
Duke Energy – Distribution	$8.30
Duke Energy – Transmission	$5.50
TECO Peoples Gas	$1.10
Frontier, FL. LLC. (FKA: Verizon)	$1.67
MCI Metro Access Transmission Service	$0.95
Florida Governmental Utility Authority	$0.80
Uniti Fiber, LLC	$1.48
Zayo Group, LLC	$1.00

Table 3 Potentially Reimbursable Utility Adjustment Costs

Utility Agency Owner (UAO)	Estimated Adjustment Costs (millions)
Florida Gas Transmission	$1.36
Duke Energy – Transmission	$5.50
Total	$6.86

5 Preferred Alternative

The Preferred Alternative, with Concept Plans shown in **Appendix C**, is a Diverging Diamond Interchange (DDI) with U.S. 41 elevated over S.R. 54 and S.R. 597 (Dale Mabry Highway).

At S.R 54, U.S. 41 will carry two lanes in each direction over S.R. 54 via a bridge. The bridge will be expandable to three lanes in each direction for future traffic demand. Two lane exit ramps from U.S. 41 in each direction will connect to S.R. 54. The northbound and southbound exit ramps will widen to two left turn lanes and two right turn lanes at the intersection with S.R. 54. Along S.R. 54, the westbound lanes will widen from three lanes to five lanes after the signalized intersection at the Village Lakes Shopping Plaza/Lowe's driveway. The five lanes will enter the first crossover intersection of the DDI. Prior to the first crossover intersection, a sixth lane will be developed for right turns only to northbound U.S. 41. Of the five lanes entering the first crossover intersection, the inside lane will be a left turn only lane and the adjacent lane will be a shared left/through lane. The remaining three lanes will be through lanes. Four lanes will enter the second crossover intersection. After the second crossover intersection, the inside lane will merge and end. Three lanes will continue westbound.

Similarly, the eastbound lanes will widen from three lanes to five lanes as they approach the interchange. The five lanes will enter the first crossover intersection of the DDI. Prior to the crossover intersection, a sixth lane will be developed for right turns only to southbound U.S. 41. Of the five lanes entering the first crossover intersection, the inside lane will be a left turn only lane and the adjacent lane will be a shared left/through lane. The remaining three lanes will be through lanes. Four lanes will enter the second crossover intersection. After the second crossover intersection, the outside lane will become a right turn only lane at the signalized intersection at the Village Lakes Shopping Plaza/Lowe's driveway. Three lanes will continue eastbound.

A new roadway connection will be provided between Carson Drive and S.R. 54, east of U.S. 41. From Carson Drive, the new connection will use the existing Raden Drive alignment before turning east towards the Village Lakes Shopping Plaza. The roadway will then connect to the existing signalized intersection of S.R. 54 at the Village Lakes Shopping Plaza/Lowe's driveway. This new roadway connection will require ROW acquisition to make the roadway available for public use.

At S.R. 597, northbound U.S. 41 will carry two lanes over S.R. 597 via a bridge. Southbound U.S. 41 will carry three lanes over S.R. 597 via a bridge. The third lane will come from S.R. 54 via a single lane southbound slip ramp. For the southbound direction, ramps are provided from S.R. 54 to southbound U.S. 41 and southbound S.R. 597. For the northbound direction of U.S. 41, the two-lane exit ramp from U.S. 41 to S.R. 54 will provide a signalized intersection at S.R. 597. The

signal will manage the traffic from northbound U.S. 41 to S.R. 54 and northbound S.R. 597 to S.R. 54. This intersection will allow a northbound U.S. 41 to southbound U.S. 41 U-turn via a “Texas U-turn”. Traffic from northbound S.R. 597 to northbound U.S. 41 will utilize a free flow ramp and merge onto U.S. 41 south of the bridge over S.R. 54.

The existing CSX rail crossings at S.R. 54 and S.R. 597 will be modified to accommodate roadway improvements.

Appendix A: Sunshine State 811 Design Ticket

419182-1 SR 45 & SR 54 UAP INTERCHANGE SPUI ALTERNATE CONCEPT
Ticket : 088407589 Rev:000 Taken: 03/28/24 16:52ET

State: FL Cnty: PASCO GeoPlace: LAND O' LAKES
CallerPlace: LAND O' LAKES
Subdivision:

Address :
Street : SR 45
Cross 1 : SR 54
Within 1/4 mile: Y

Locat: LOCATE FULL ROADWAY R/W / DESIGN TICKET ONLY NO DIGGING
:
Remarks : IN RESPONSE TO RECEIPT OF A DESIGN TICKET, SSOCOF PROVIDES THE ORIGINATOR OF THE DESIGN TICKET WITH A LIST OF SSOCOF MEMBERS IN THE VICINITY OF THE DESIGN PROJECT. SSOCOF DOES NOT NOTIFY SSOCOF MEMBERS OF THE RECEIPT BY SSOCOF OF A DESIGN TICKET. IT IS THE SOLE RESPONSIBILITY OF THE DESIGN ENGINEER TO CONTACT SSOCOF MEMBERS TO REQUEST INFORMATION ABOUT THE LOCATION OF SSOCOF MEMBERS' UNDERGROUND FACILITIES. SUBMISSION OF A DESIGN TICKET WILL NOT SATISFY THE REQUIREMENT OF CHAPTER 556, FLORIDA STATUTES, TO NOTIFY SSOCOF OF AN INTENT TO EXCAVATE OR DEMOLISH. THAT INTENT MUST BE MADE KNOWN SPECIFICALLY TO SSOCOF IN THE MANNER REQUIRED BY LAW. IN AN EFFORT TO SAVE TIME ON FUTURE CALLS, SAVE YOUR DESIGN TICKET NUMBER IF YOU INTEND TO BEGIN EXCAVATION WITHIN 90 DAYS OF YOUR DESIGN REQUEST. THE DESIGN TICKET CAN BE REFERENCED, AND THE INFORMATION ON IT CAN BE USED TO SAVE TIME WHEN YOU CALL IN THE EXCAVATION REQUEST.
*** LOOKUP BY MANUAL ***
*** Boundary: n 28.194610 s 28.188924 w -82.469357 e -82.461628
:
Grids : 2811B8227A 2811B8228D 2811C8227A 2811C8227B 2811C8228D

Work date: 03/28/24 Time: 16:45ET Hrs notc: 000 Category: 6 Duration: UNKNOWN
Due Date : 04/01/24 Time: 23:59ET Exp Date : 04/29/24 Time: 23:59ET
Work type: DESIGN Boring: N White-lined: N
Ug/Oh/Both: U Machinery: N Depth: UNK Permits: N N/A
Done for : DESIGN

Company : T2 UTILITY ENGINEERS Type: OTHR
Co addr : 402 NORTHLAKE BLVD ALTAMONTE SPRINGS, FL 32701
City : ORLANDO State: FL Zip: 32814
Caller : THOMAS PRIDGEN Phone: 863-450-8553
Contact : THOMAS PRIDGEN Phone: 853-450-8553
BestTime: 08:00 AM - 05:00 PM (MONDAY - FRIDAY) WORK DAYS
Mobile : 863-450-8553
Fax : 863-450-8553
Email : THOMAS.PRIDGEN@T2UE.COM

Submitted: 03/28/24 16:52ET Oper: THO Chan: WEB
Mbrs : BC1785 FG1997 FGT336 FLW941 FPC314 GT1722 L3C900 MCIU01 PAS817 PASCO
Mbrs : PGSTAM SL1086 TW1059

419182-1 SR 45 & SR 54 UAP INTERCHANGE SPUI ALTERNATE CONCEPT
Ticket : 088407589 Rev:000 Taken: 03/28/24 16:52ET

State: FL Cnty: PASCO GeoPlace: LAND O' LAKES
CallerPlace: LAND O' LAKES
Subdivision:

Address :
Street : SR 45
Cross 1 : SR 54
Within 1/4 mile: Y

Locat: LOCATE FULL ROADWAY R/W / DESIGN TICKET ONLY NO DIGGING
:
Remarks : IN RESPONSE TO RECEIPT OF A DESIGN TICKET, SSOCOF PROVIDES THE ORIGINATOR OF THE DESIGN TICKET WITH A LIST OF SSOCOF MEMBERS IN THE VICINITY OF THE DESIGN PROJECT. SSOCOF DOES NOT NOTIFY SSOCOF MEMBERS OF THE RECEIPT BY SSOCOF OF A DESIGN TICKET. IT IS THE SOLE RESPONSIBILITY OF THE DESIGN ENGINEER TO CONTACT SSOCOF MEMBERS TO REQUEST INFORMATION ABOUT THE LOCATION OF SSOCOF MEMBERS' UNDERGROUND FACILITIES. SUBMISSION OF A DESIGN TICKET WILL NOT SATISFY THE REQUIREMENT OF CHAPTER 556, FLORIDA STATUTES, TO NOTIFY SSOCOF OF AN INTENT TO EXCAVATE OR DEMOLISH. THAT INTENT MUST BE MADE KNOWN SPECIFICALLY TO SSOCOF IN THE MANNER REQUIRED BY LAW. IN AN EFFORT TO SAVE TIME ON FUTURE CALLS, SAVE YOUR DESIGN TICKET NUMBER IF YOU INTEND TO BEGIN EXCAVATION WITHIN 90 DAYS OF YOUR DESIGN REQUEST. THE DESIGN TICKET CAN BE REFERENCED, AND THE INFORMATION ON IT CAN BE USED TO SAVE TIME WHEN YOU CALL IN THE EXCAVATION REQUEST.
*** LOOKUP BY MANUAL ***
*** Boundary: n 28.194610 s 28.188924 w -82.469357 e -82.461628
:
Grids : 2811B8227A 2811B8228D 2811C8227A 2811C8227B 2811C8228D

Work date: 03/28/24 Time: 16:45ET Hrs notc: 000 Category: 6 Duration: UNKNOWN
Due Date : 04/01/24 Time: 23:59ET Exp Date : 04/29/24 Time: 23:59ET
Work type: DESIGN Boring: N White-lined: N
Ug/Oh/Both: U Machinery: N Depth: UNK Permits: N N/A
Done for : DESIGN

Company : T2 UTILITY ENGINEERS Type: OTHR
Co addr : 402 NORTHLAKE BLVD ALTAMONTE SPRINGS, FL 32701
City : ORLANDO State: FL Zip: 32814
Caller : THOMAS PRIDGEN Phone: 863-450-8553
Contact : THOMAS PRIDGEN Phone: 853-450-8553
BestTime: 08:00 AM - 05:00 PM (MONDAY - FRIDAY) WORK DAYS
Mobile : 863-450-8553
Fax : 863-450-8553
Email : THOMAS.PRIDGEN@T2UE.COM

Submitted: 03/28/24 16:52ET Oper: THO Chan: WEB
Mbrs : BC1785 FG1997 FGT336 FLW941 FPC314 GT1722 L3C900 MCIU01 PAS817 PASCO
Mbrs : PGSTAM SL1086 TW1059

Appendix B: Utility Aerials

Financial Project ID: 419182-1-22-01
SR 45 (US41) from South of the SR 54 Intersection to North of the SR 54 Intersection

PD&E Study

Spectrum (FKA: Bright House Networks)

Greenlines

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

RS&H
Reynolds, Smith and Hills, Inc.
7115 N. Westshore Boulevard, Suite 500
Tampa, Florida 33607-3999
813-289-5550
Certificate of Authorization No. 5620
Architectural, Engineering, Planning and Environmental Services

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

SHEET NO. 1

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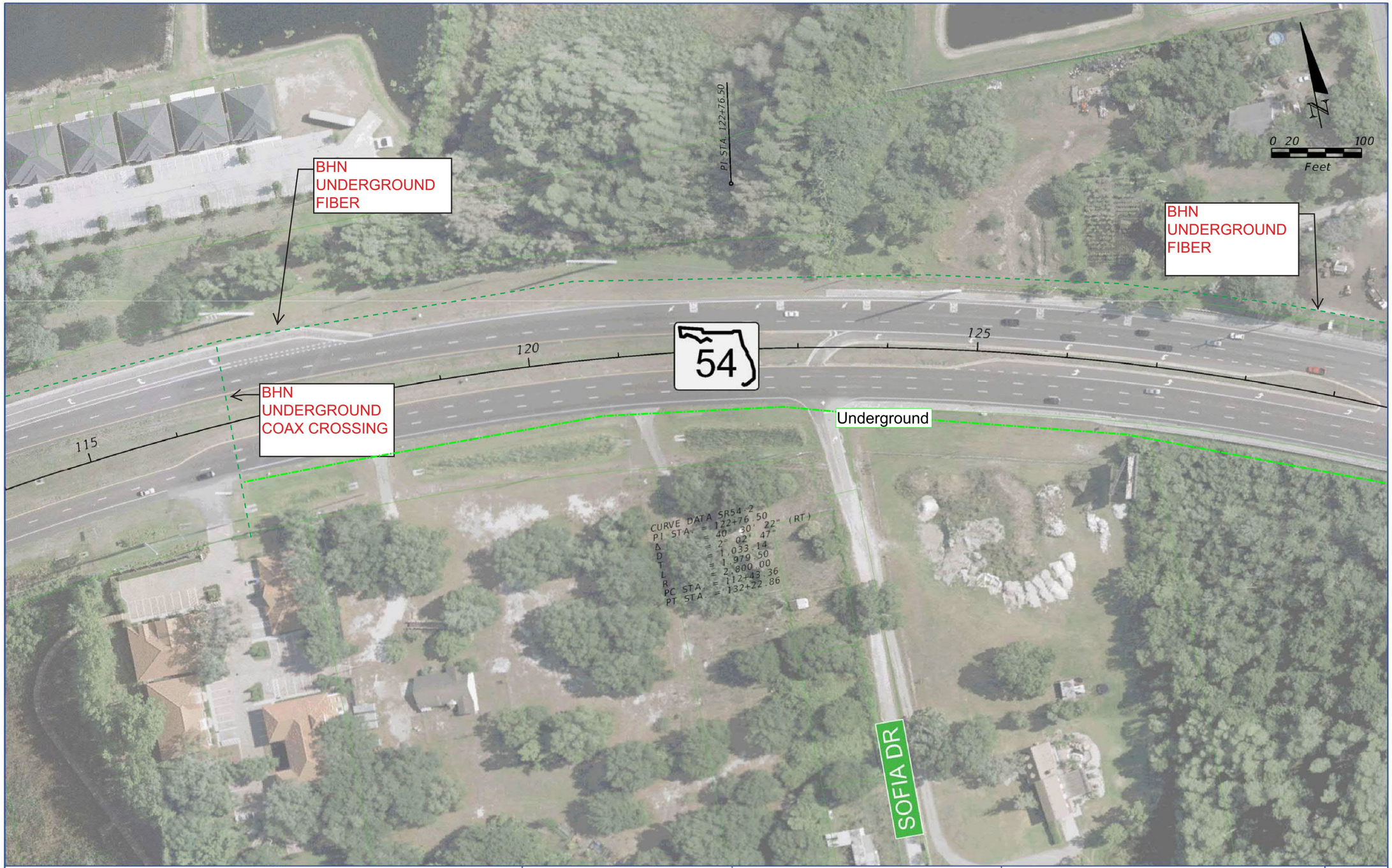

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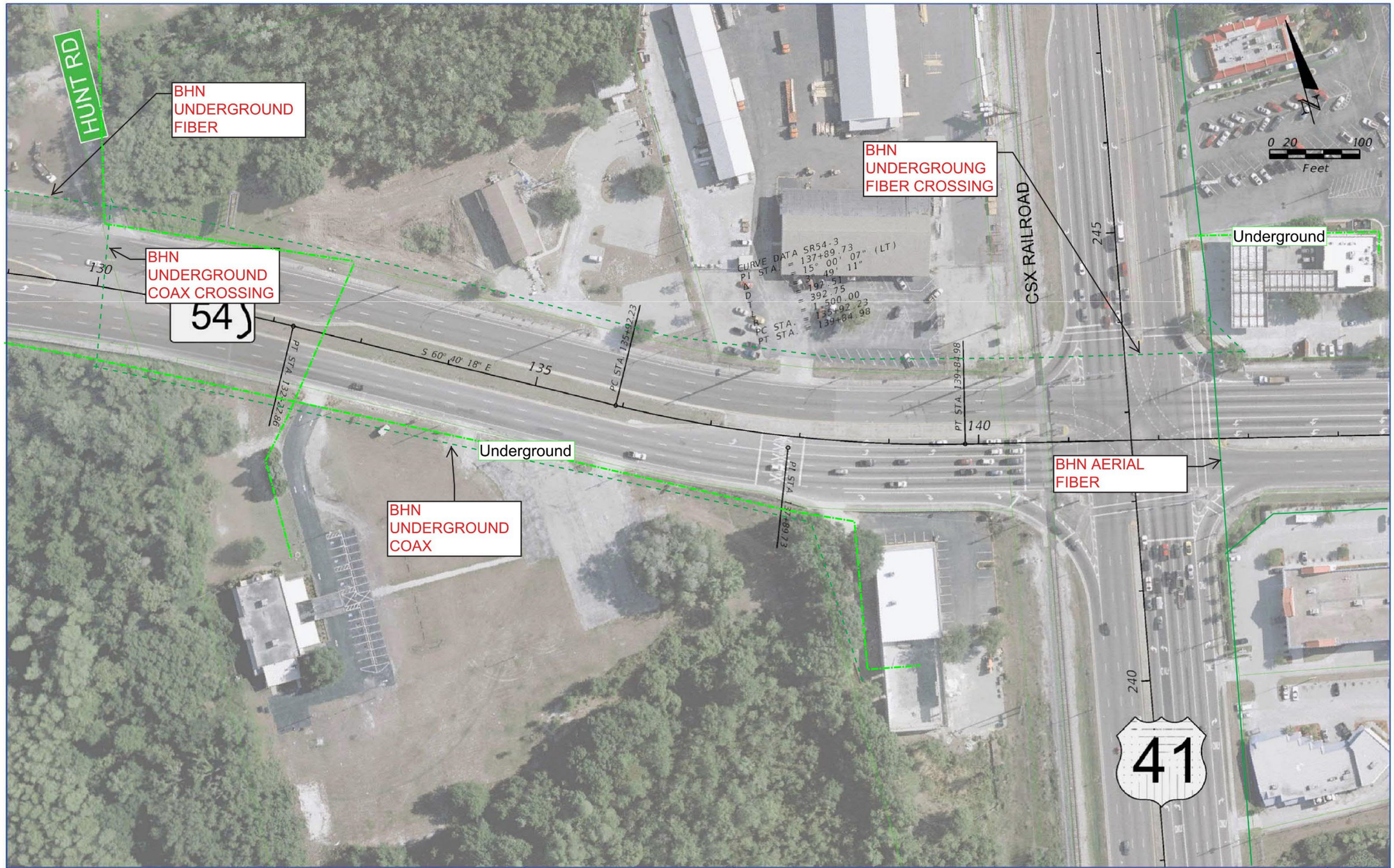

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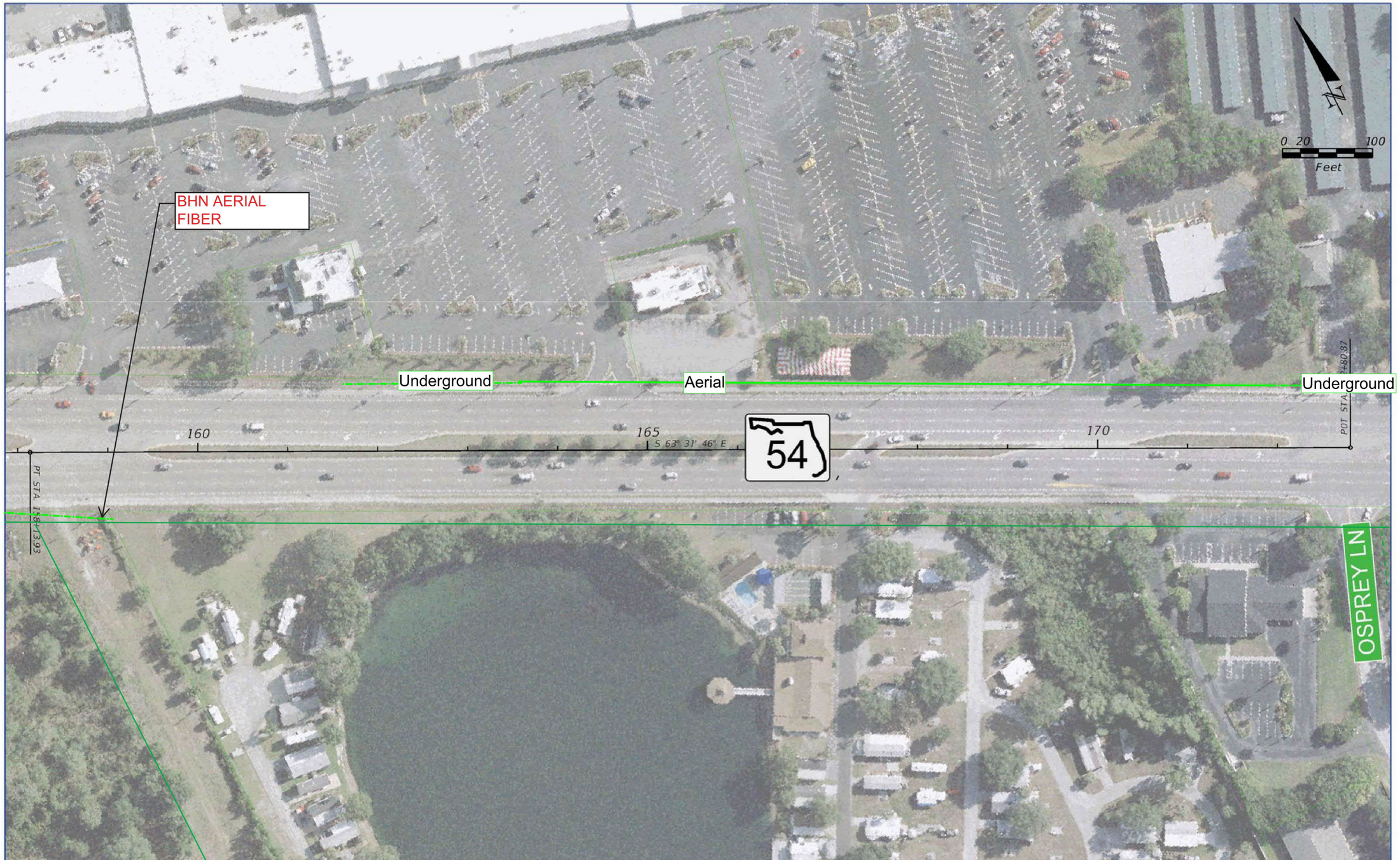

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US 41/SR 54 PD&E STUDY

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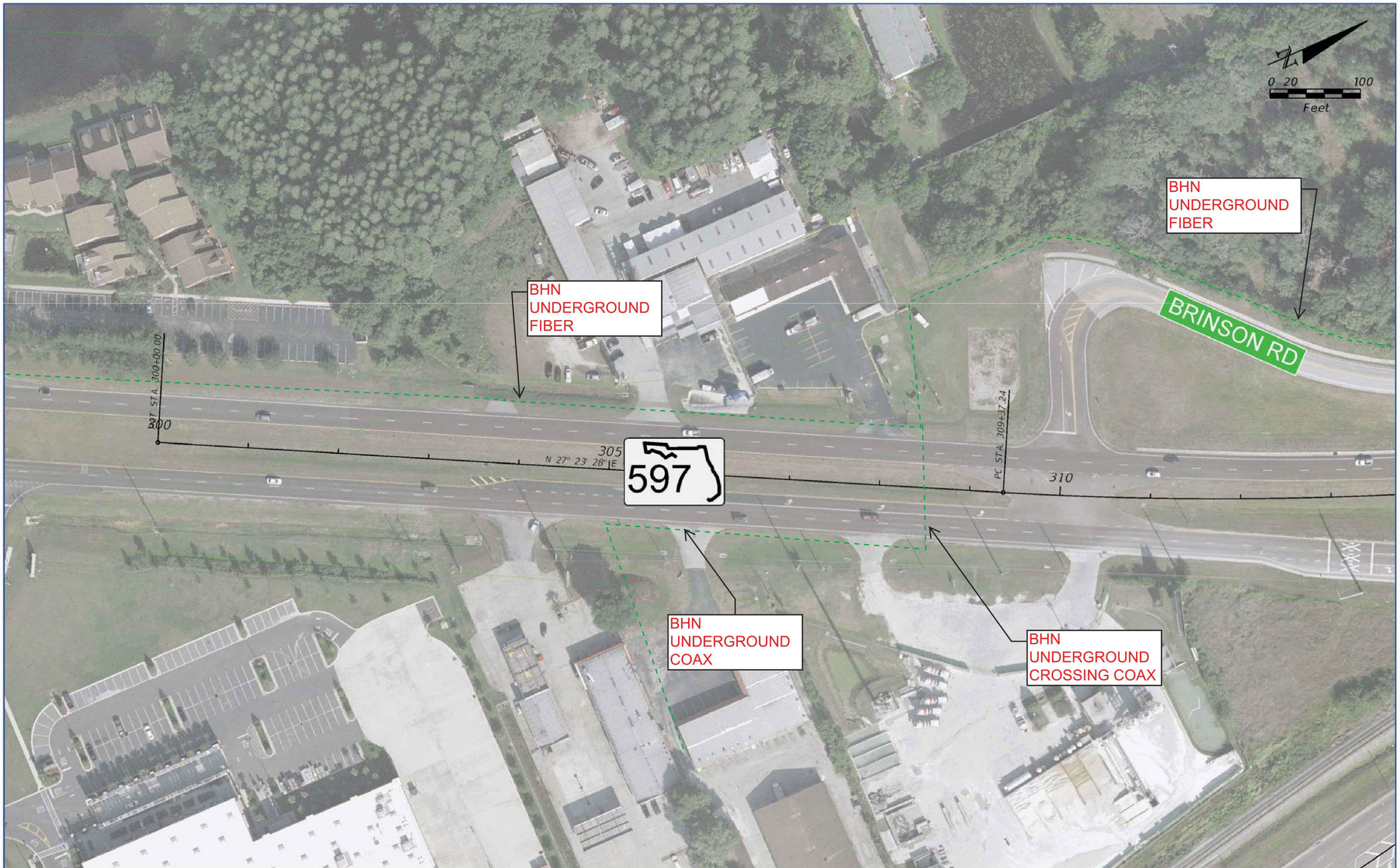

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US 41/SR 54 PD&E STUDY

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Financial Project ID: 419182-1-22-01
SR 45 (US41) from South of the SR 54 Intersection to North of the SR 54 Intersection

PD&E Study

THERE HAVE BEEN NO CHANGES TO THE FGT PIPELINES SINCE THE PD&E MARKUPS

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Florida Gas Transmission

Greenlines

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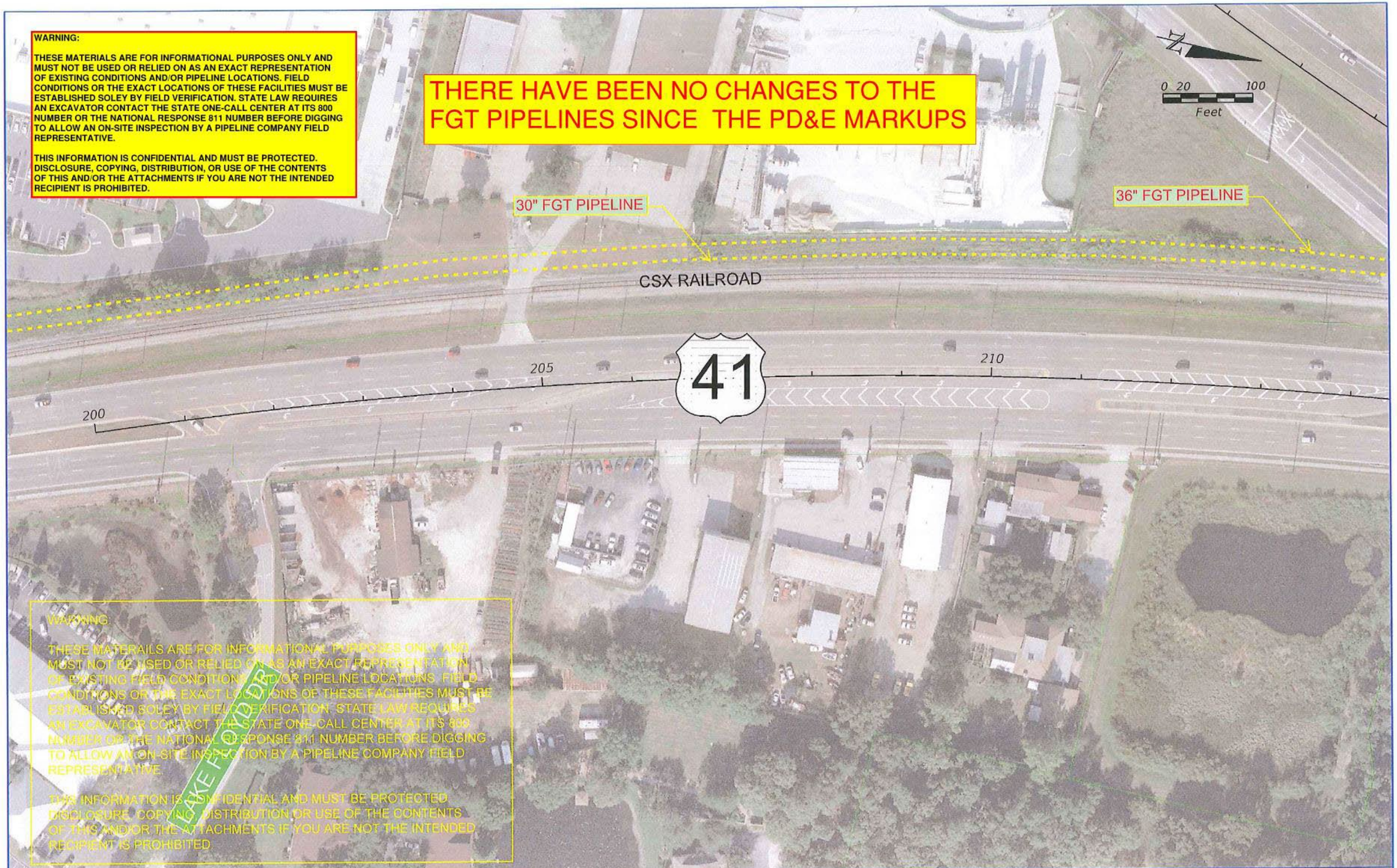

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Tampa, Florida 33607-5999
813-289-5550
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STATE OF FLORIDA
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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US 41/SR 54 PD&E STUDY

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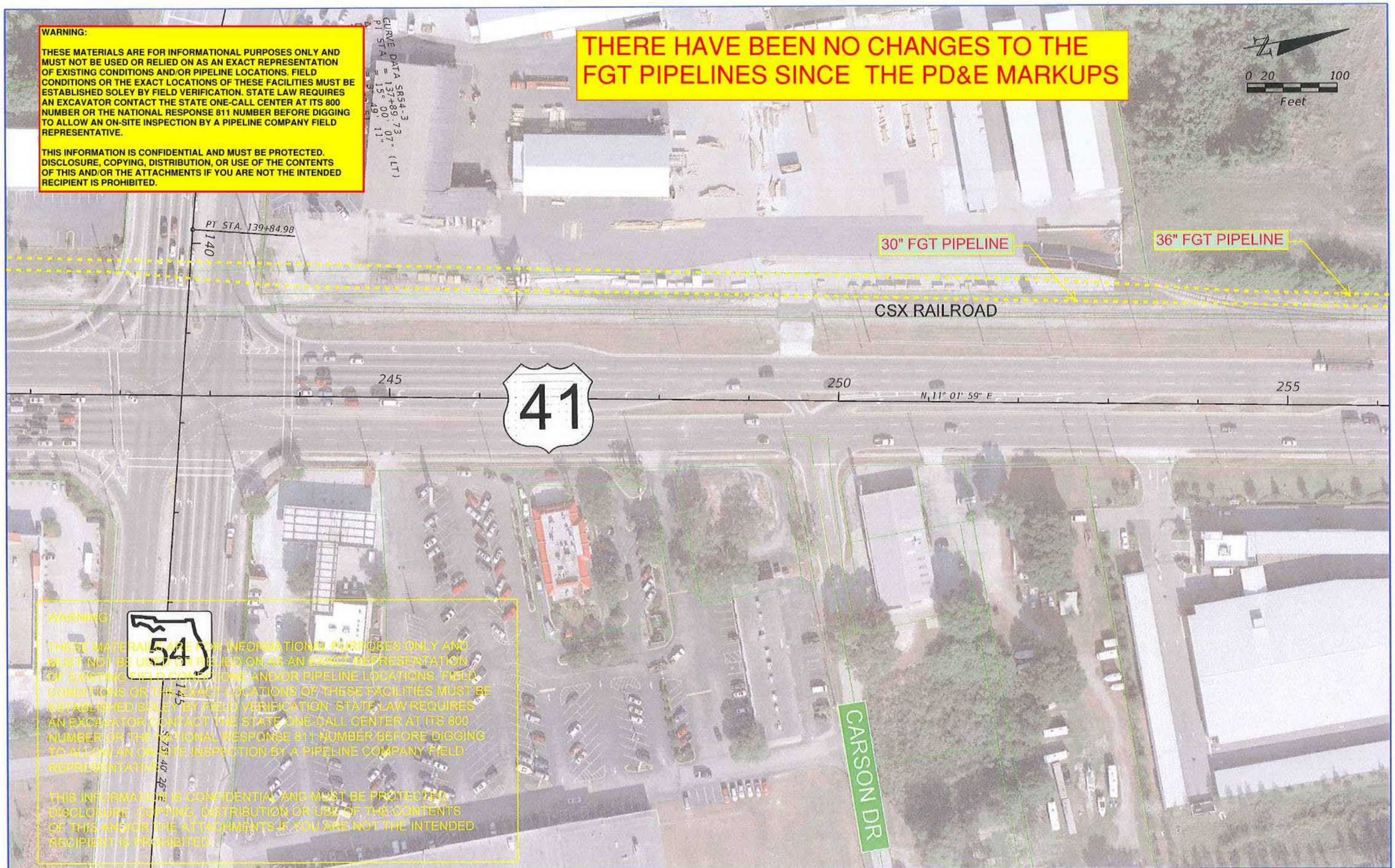

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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Reynolds, Smith and Hills, Inc.
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Tampa, Florida 33607-3999
813-289-5550
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

SHEET NO. 9

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REVISIONS			
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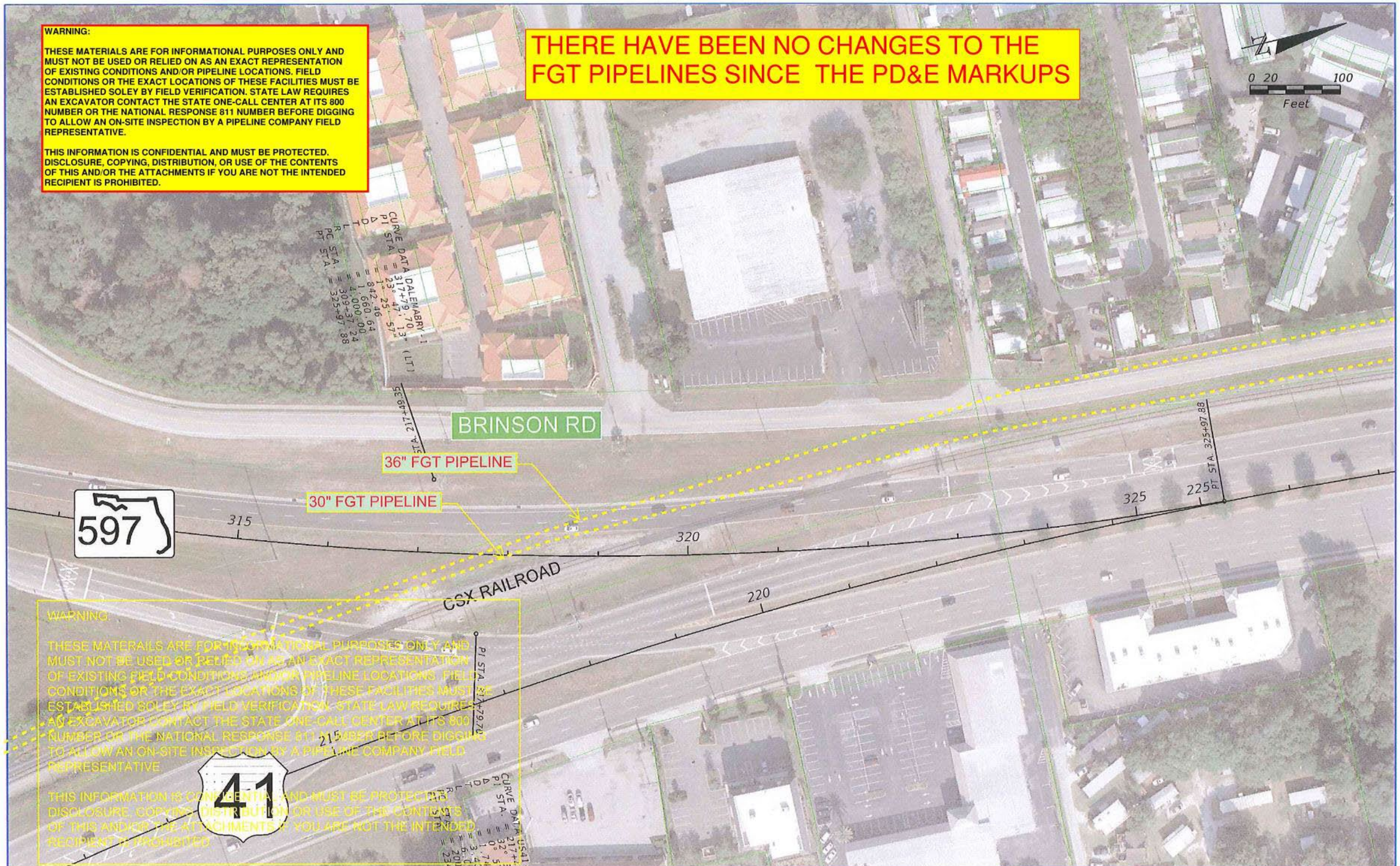

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LEVEL "D" LOCATES: This is an Approximate location of Level 3 Facilities (Not Shown to scale)

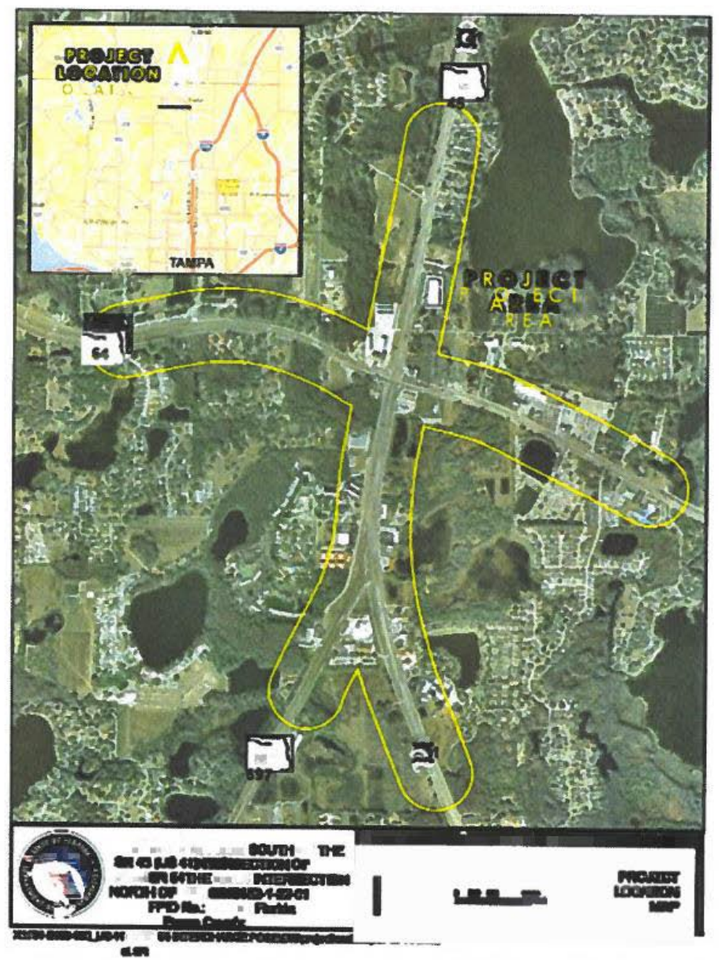
Financial Project ID: 419182-1-22-01
SR 45 (US41) from South of the SR 54 Intersection to North of the SR 54 Intersection

PD&E Study

LEGEND

RED- PLACED OUT OF SERVICE
GREEN- TO REMAIN
BROWN- PROPOSED

AERIAL FOC
BURIED FOC



Reviewed on by:

Matt Anthony
Level 3
Network Implementation Program Manager
5908 Hampton Oaks Parkway Suite A, Tampa FL, 33610
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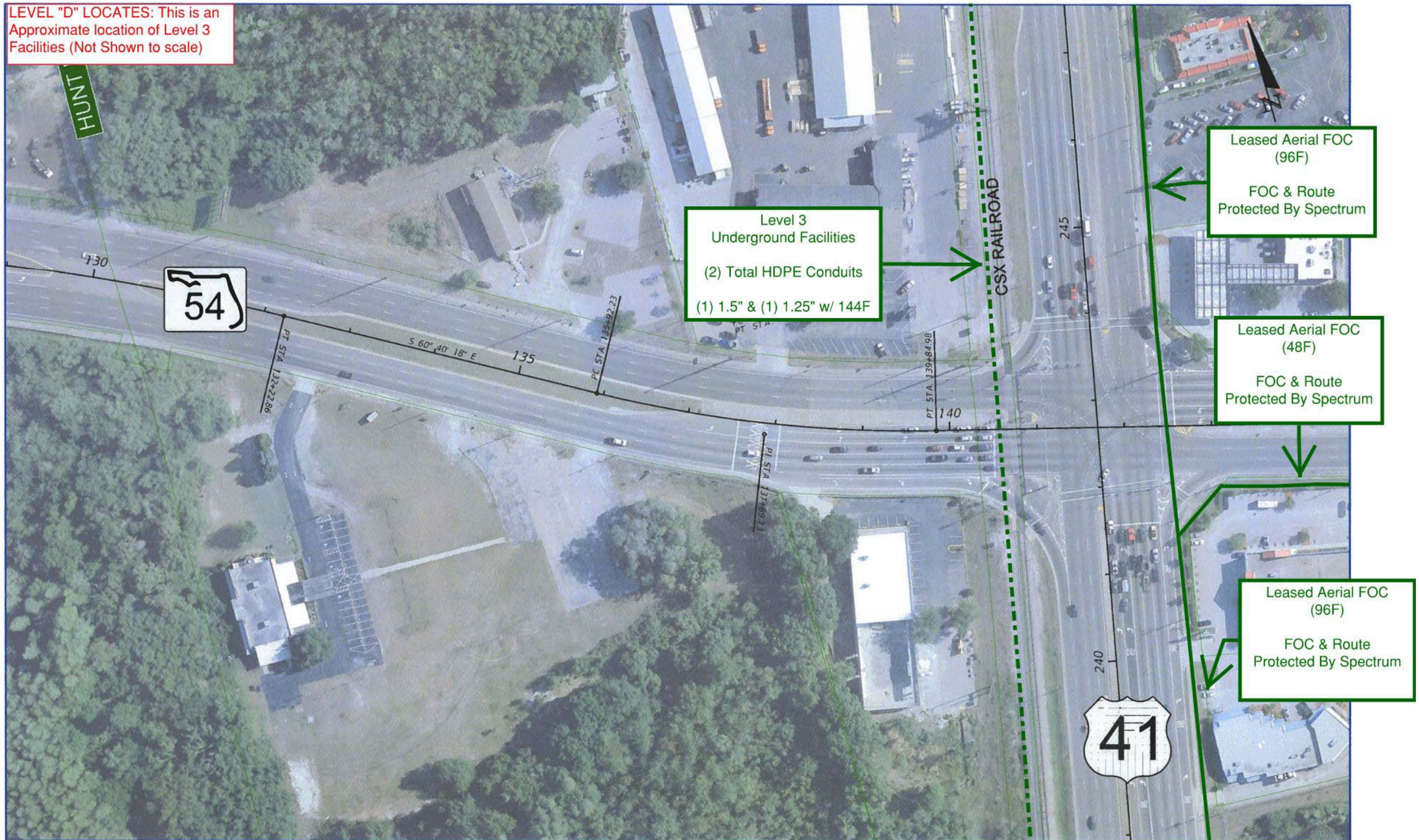
S

PH I - Greenlines
P-540389



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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

SHEET NO. 4

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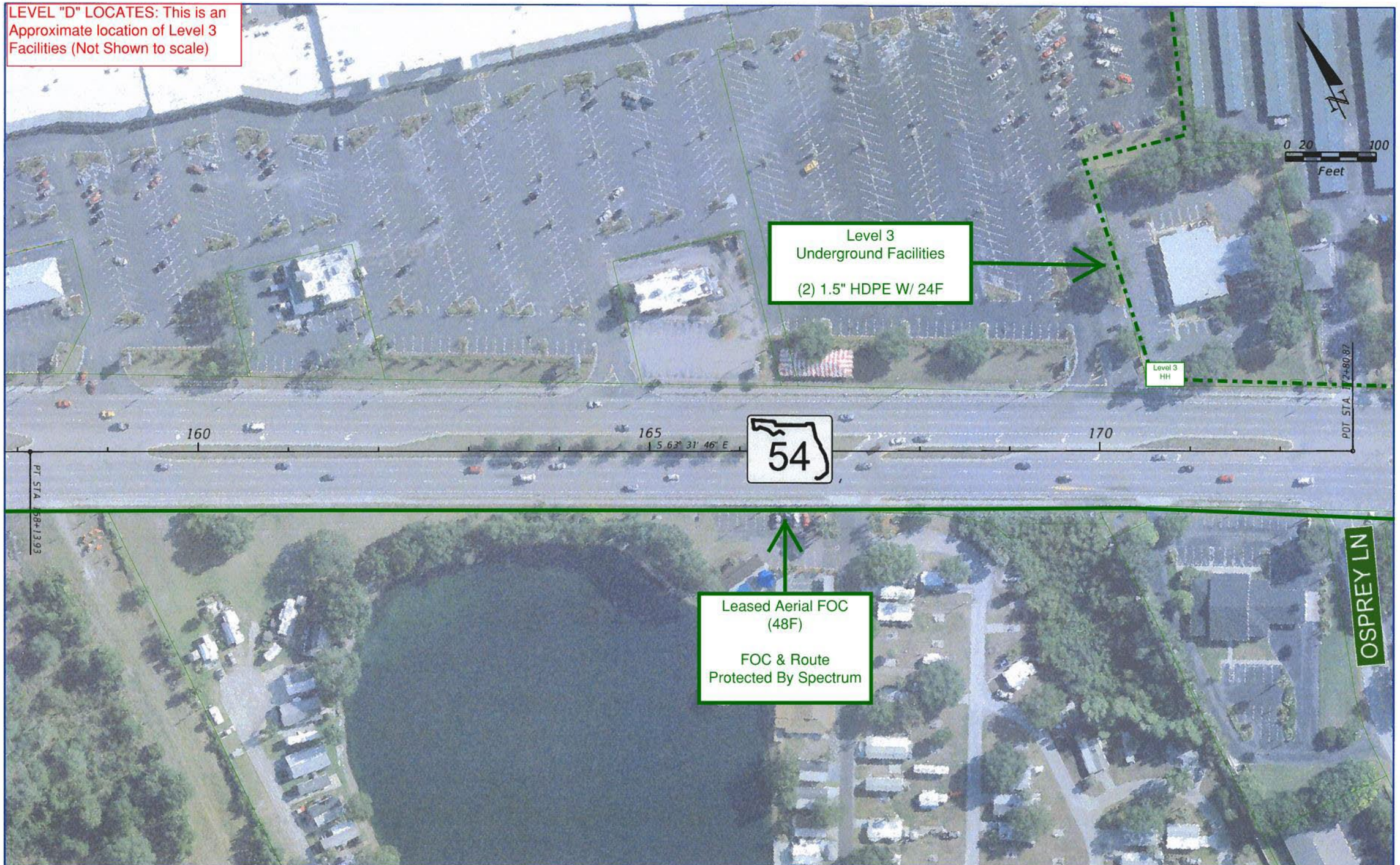

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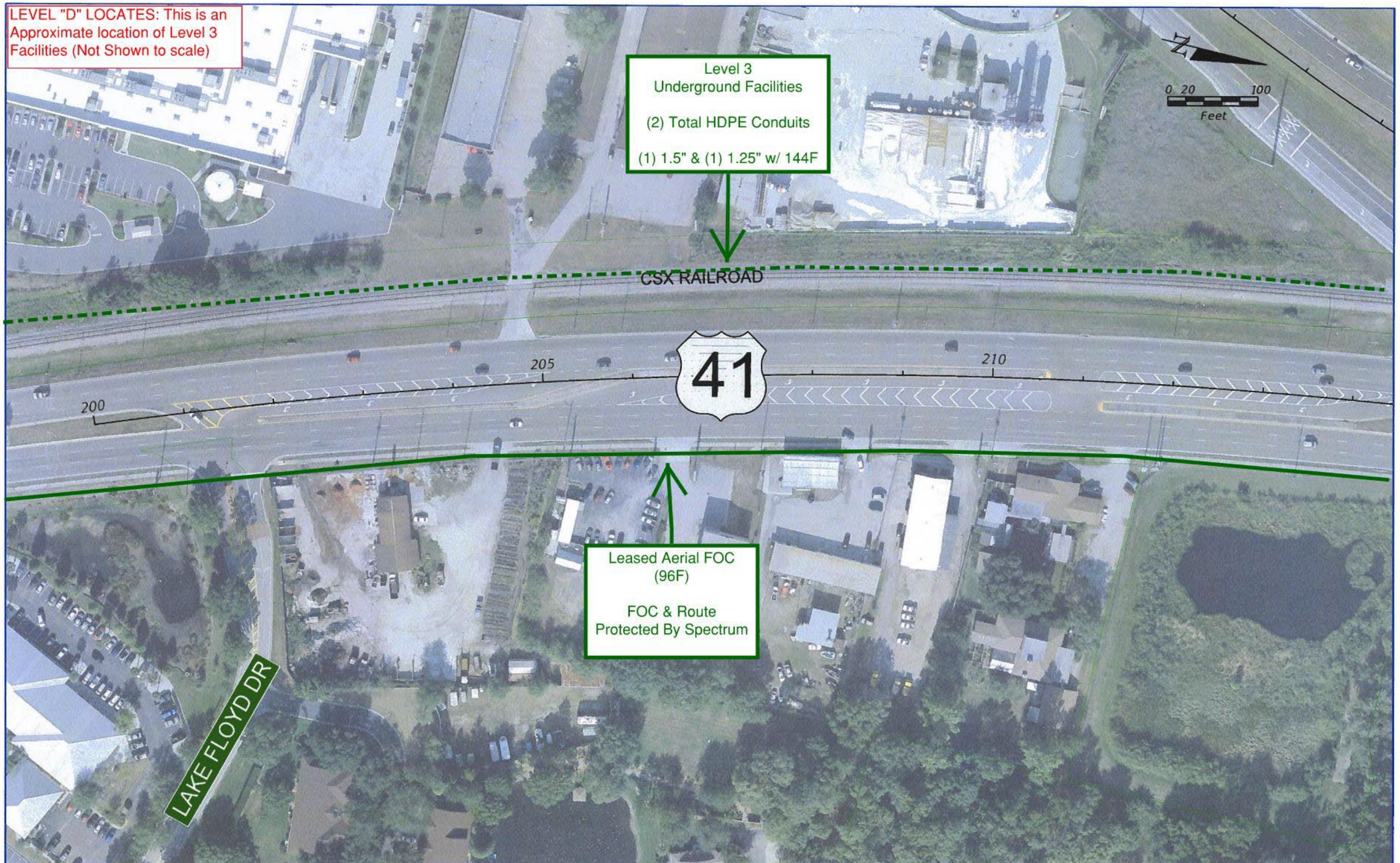
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

SHEET NO. 5



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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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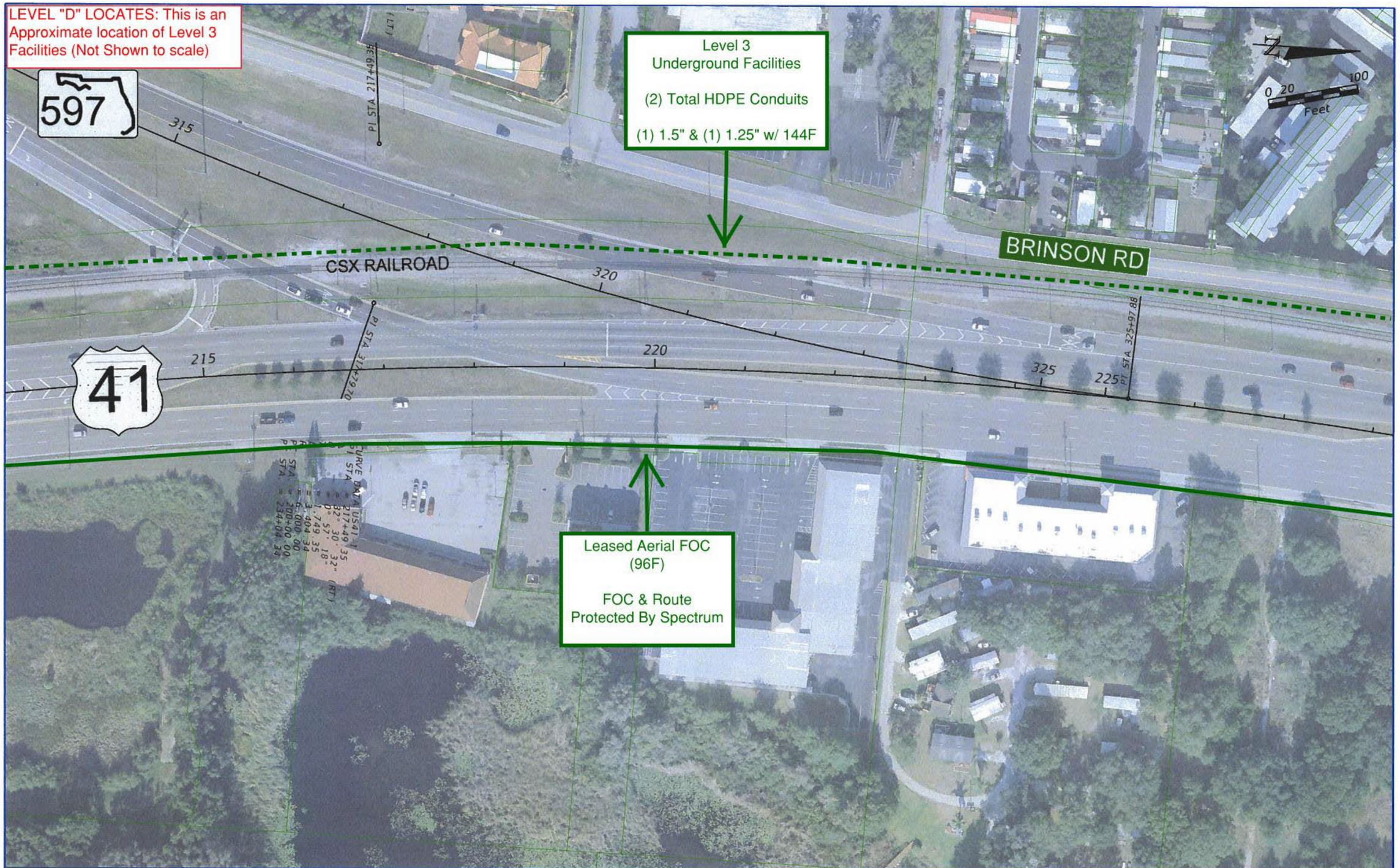

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	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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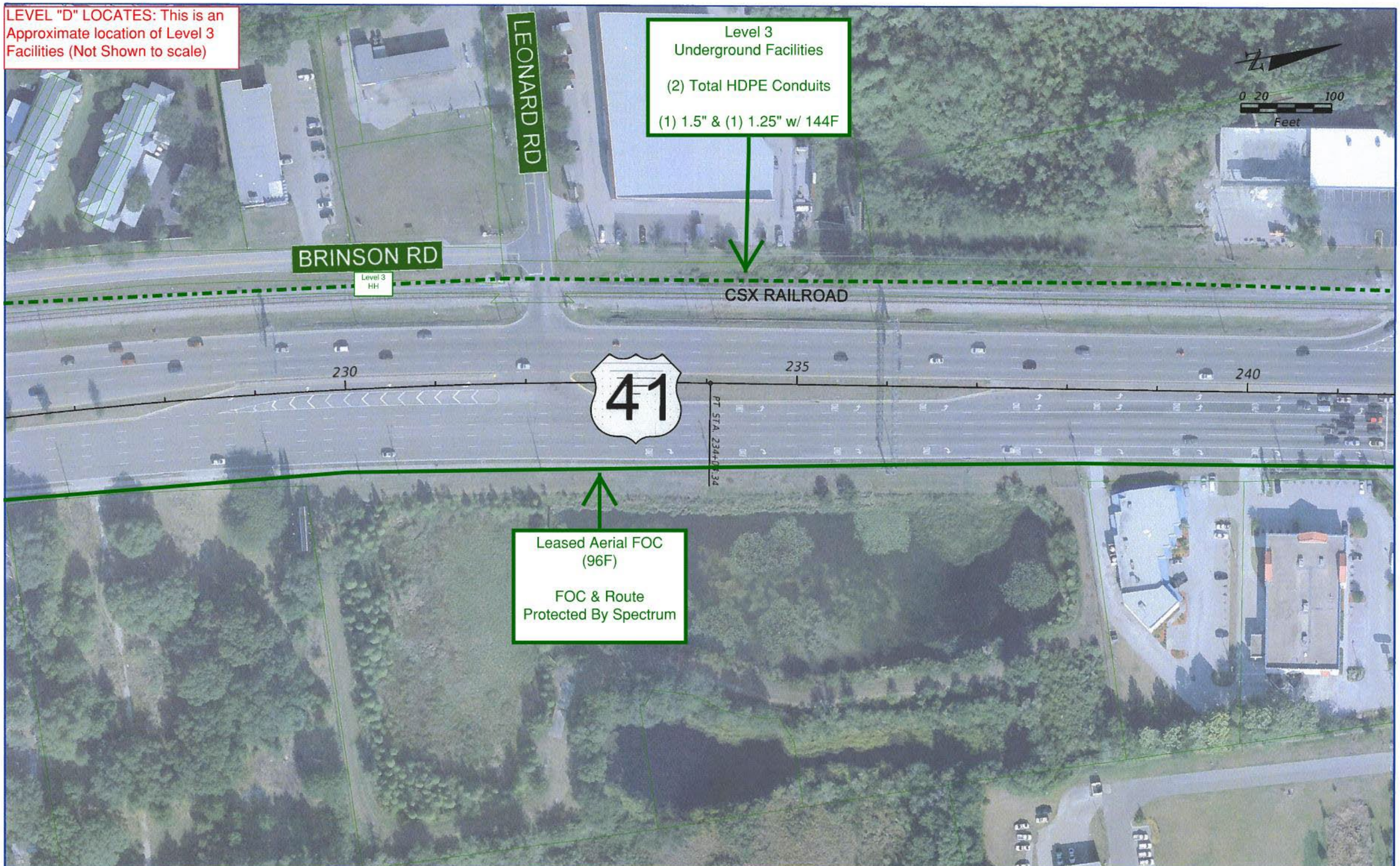

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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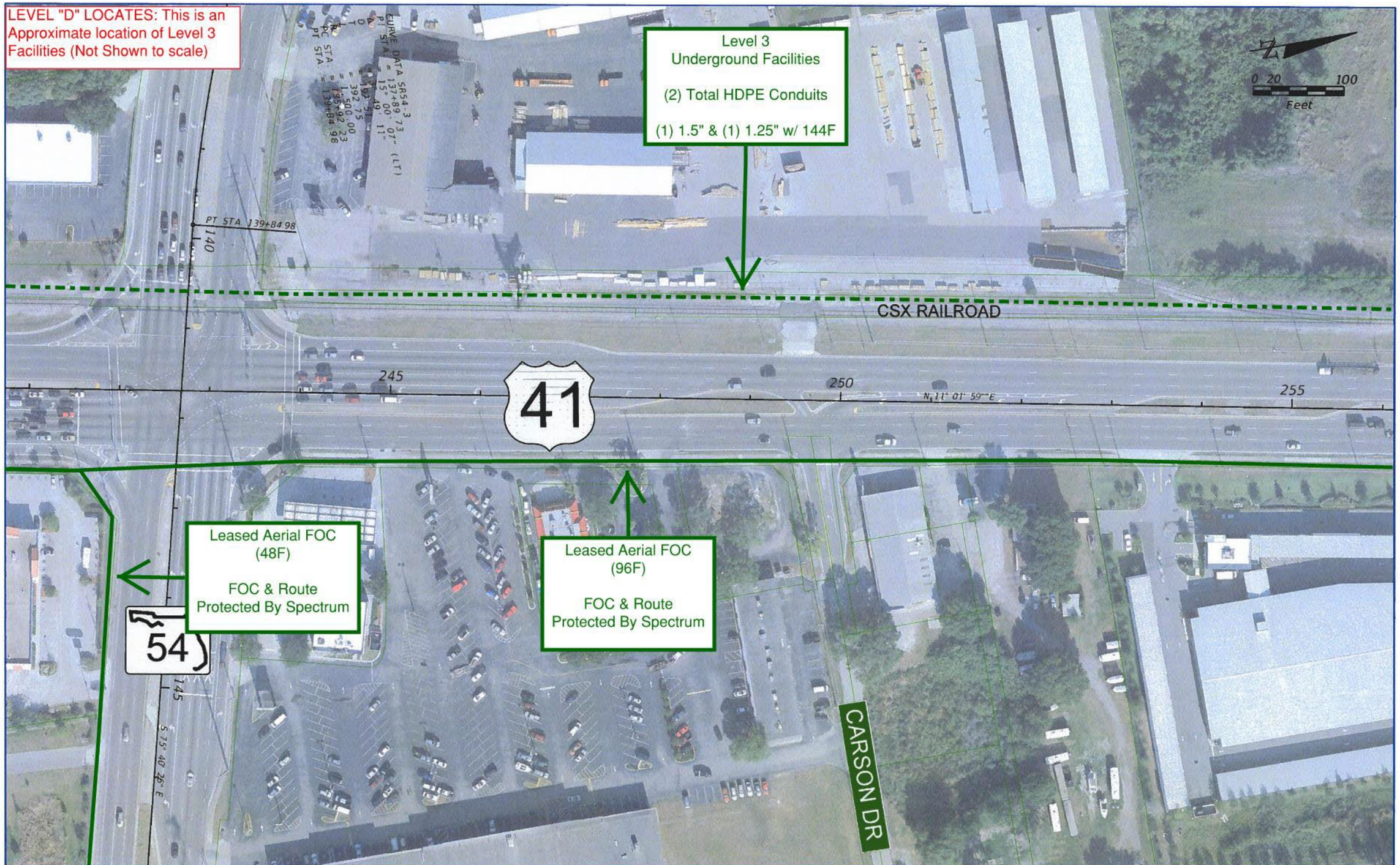

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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US 41/SR 54 PD&E STUDY

SHEET NO. 9

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US 41/SR 54 PD&E STUDY

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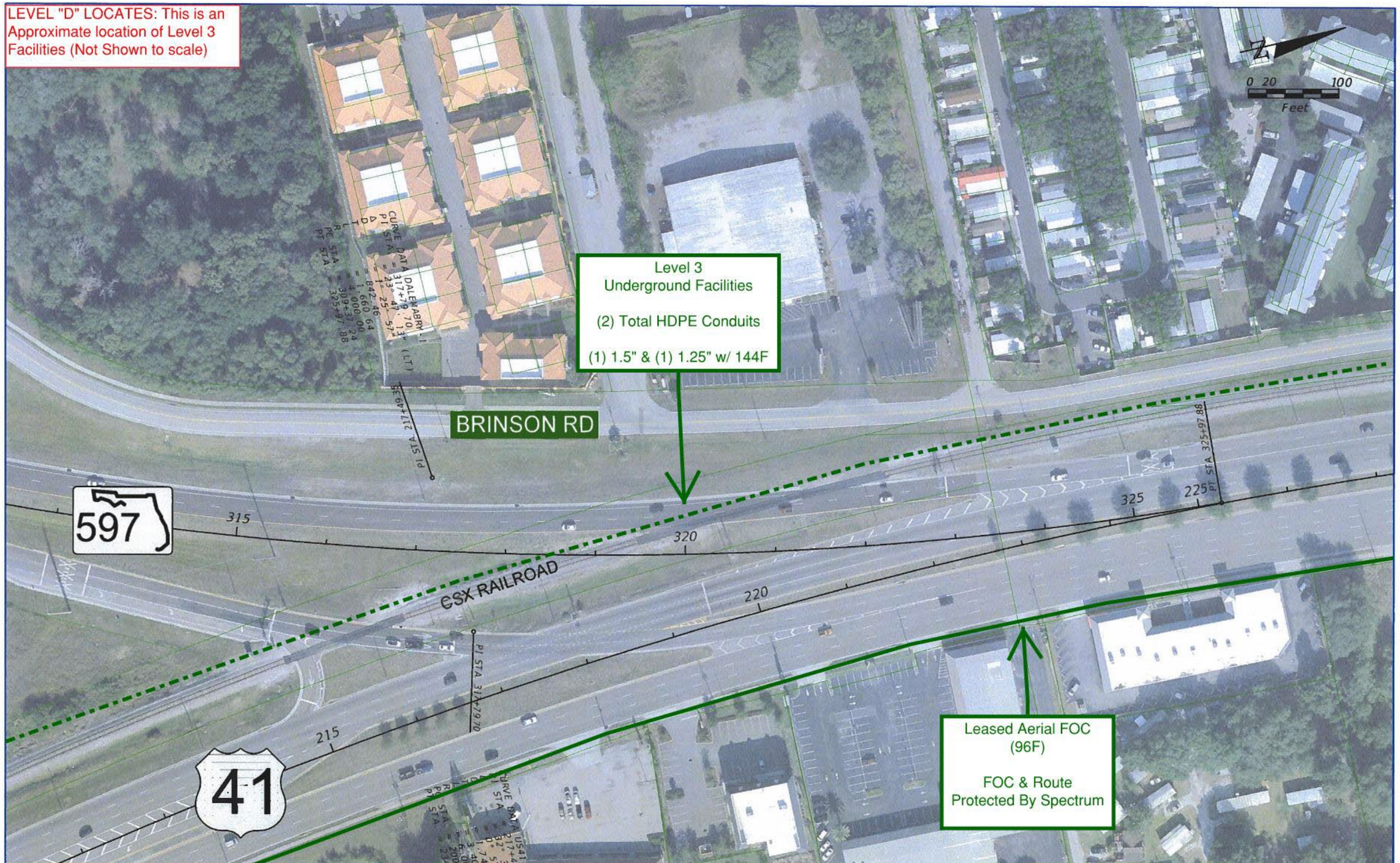

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US 41/SR 54 PD&E STUDY

SHEET NO. 12

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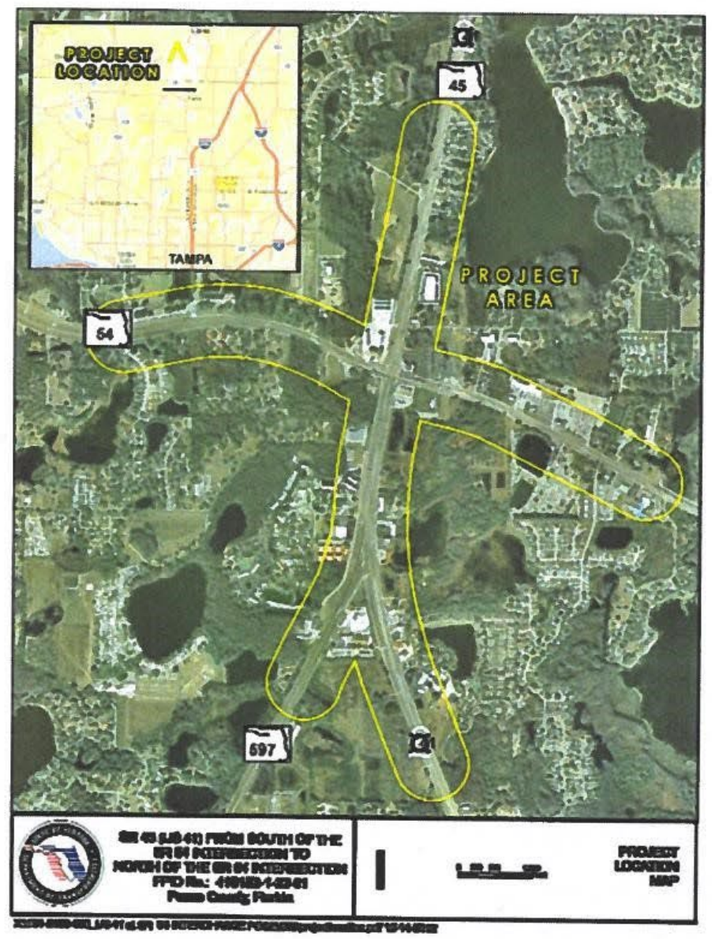
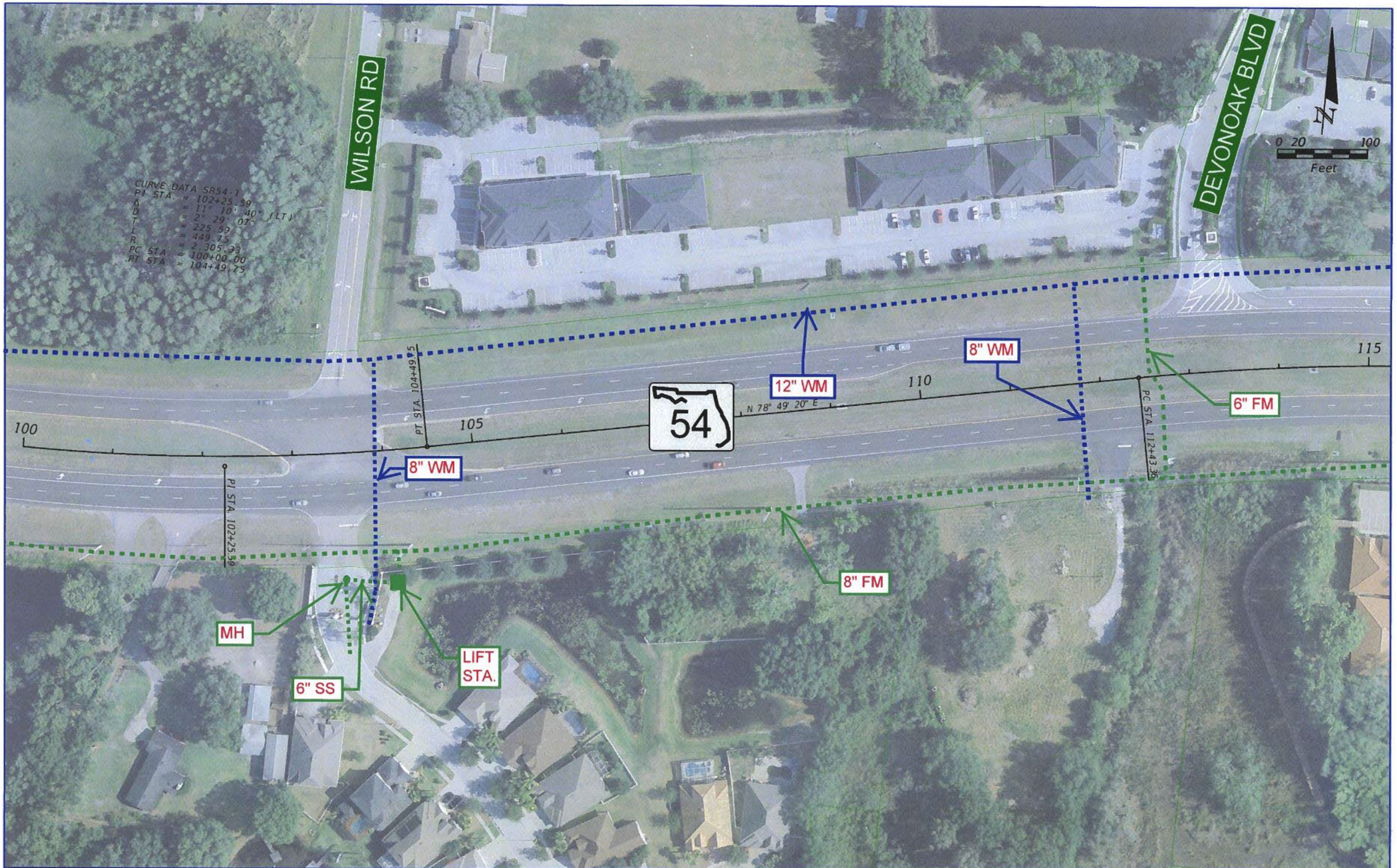
Financial Project ID: 419182-1-22-01
SR 45 (US41) from South of the SR 54 Intersection to North of the SR 54 Intersection

PD&E Study

Pasco County

Greenlines





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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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US 41/SR 54 PD&E STUDY

SHEET NO. 1

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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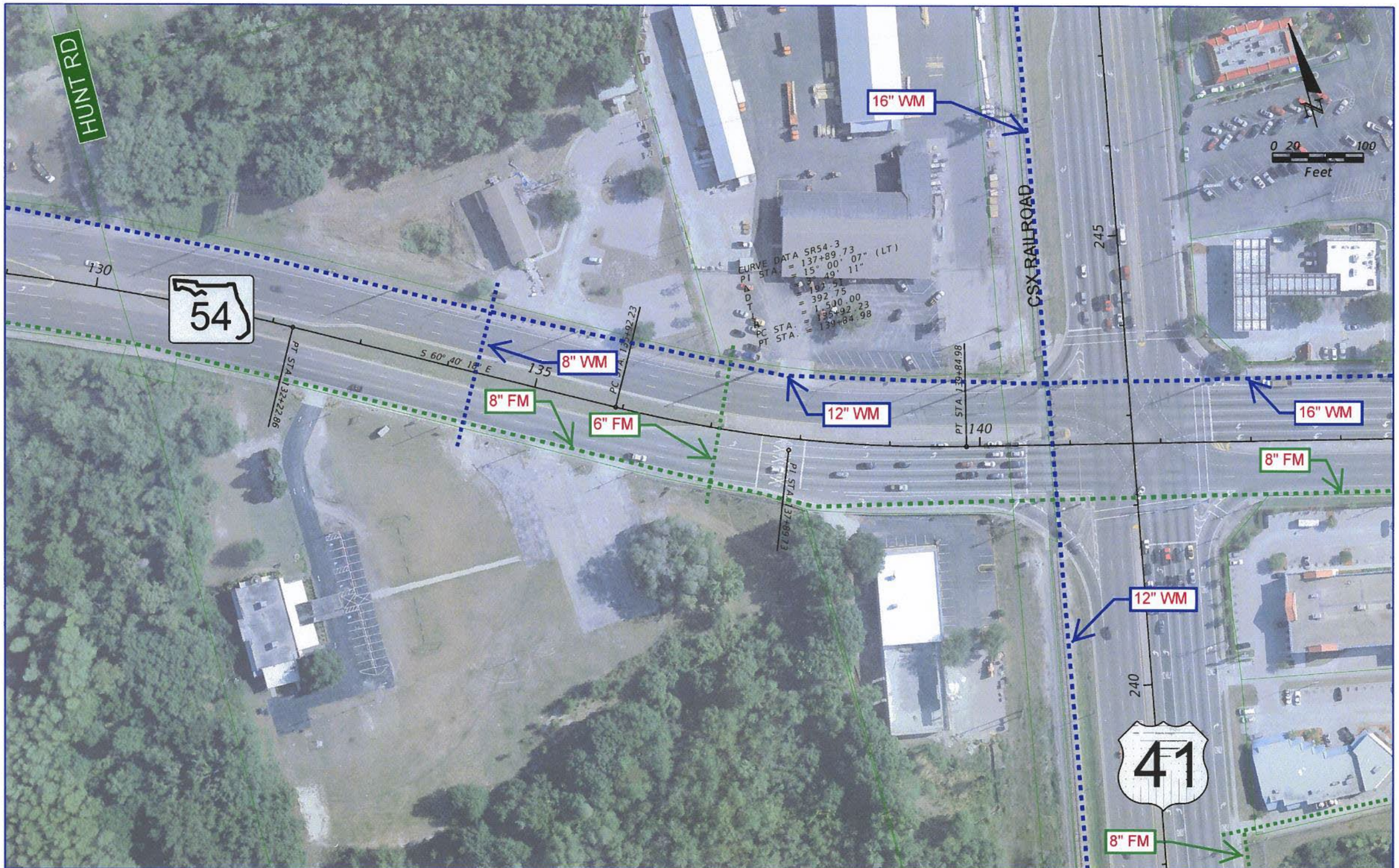

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US 41/SR 54 PD&E STUDY

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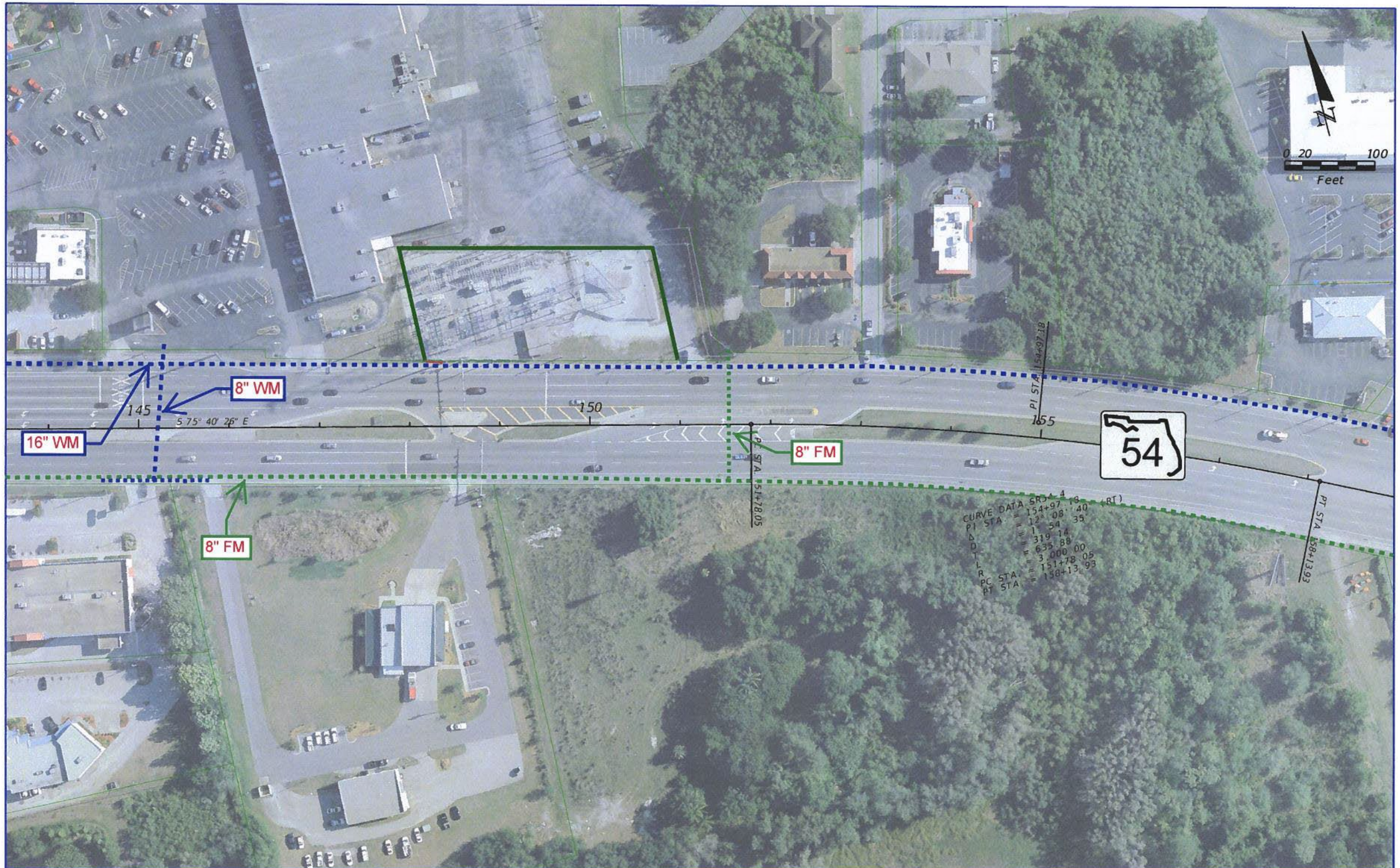

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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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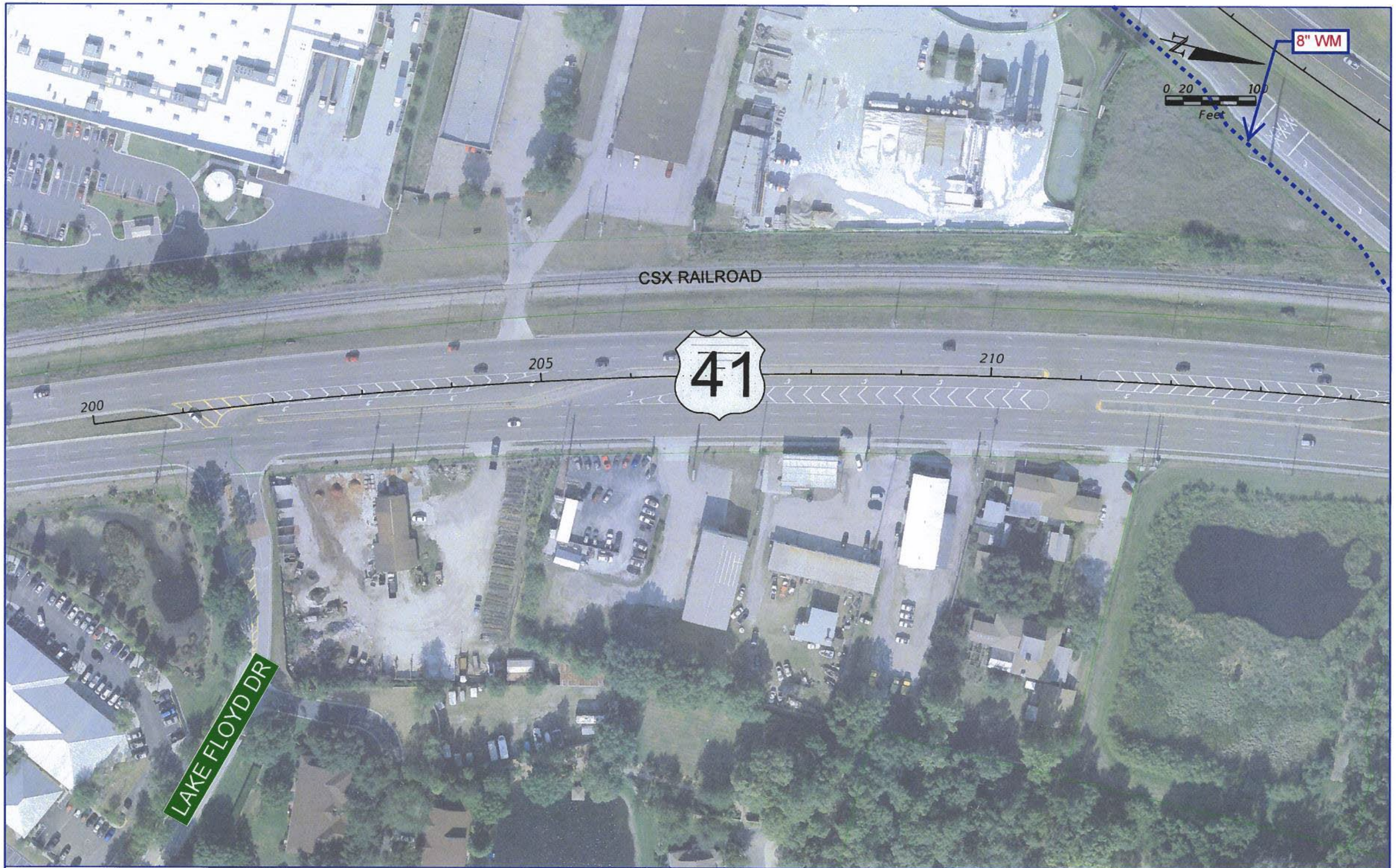

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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US 41/SR 54 PD&E STUDY

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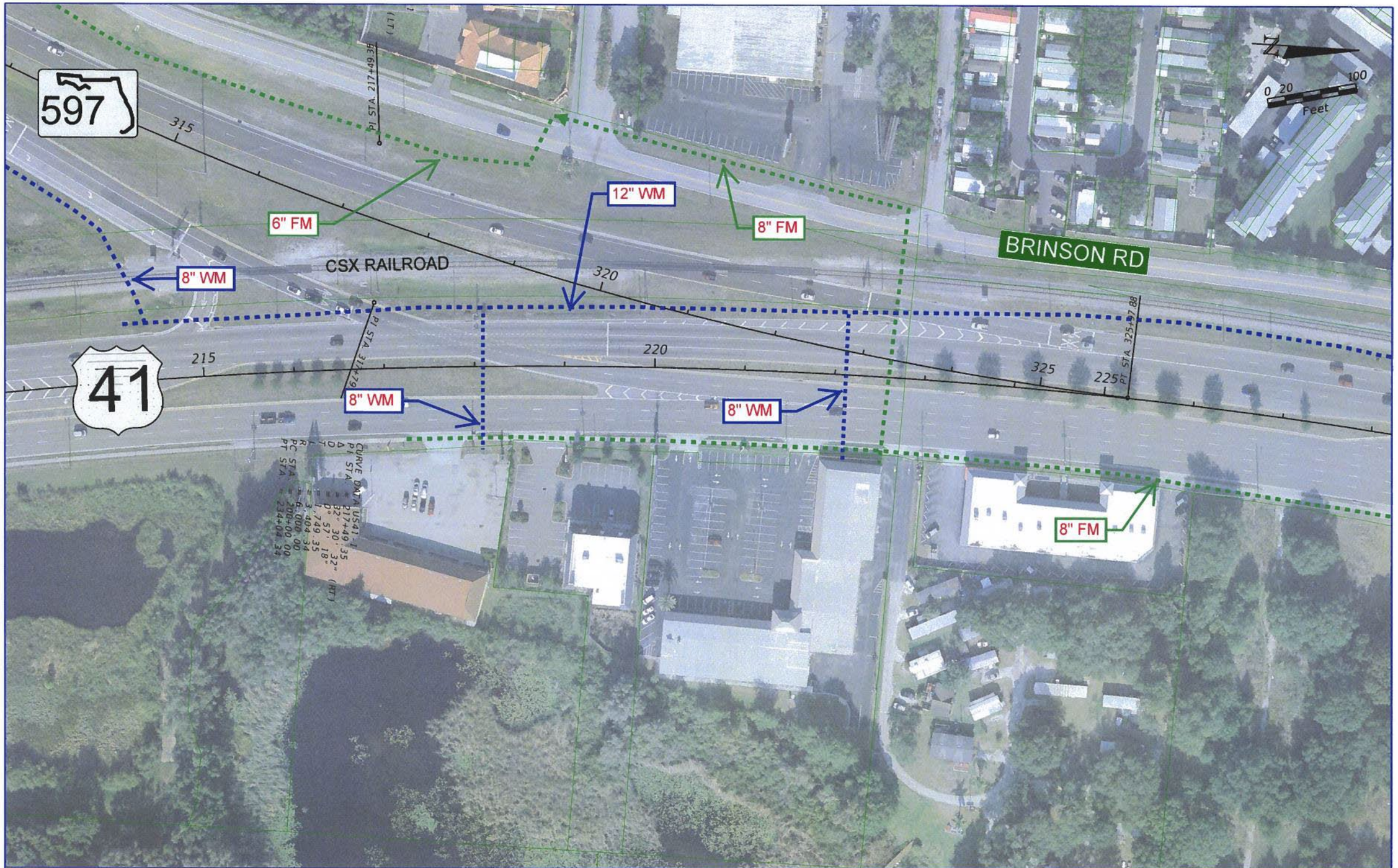

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	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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US 41/SR 54 PD&E STUDY

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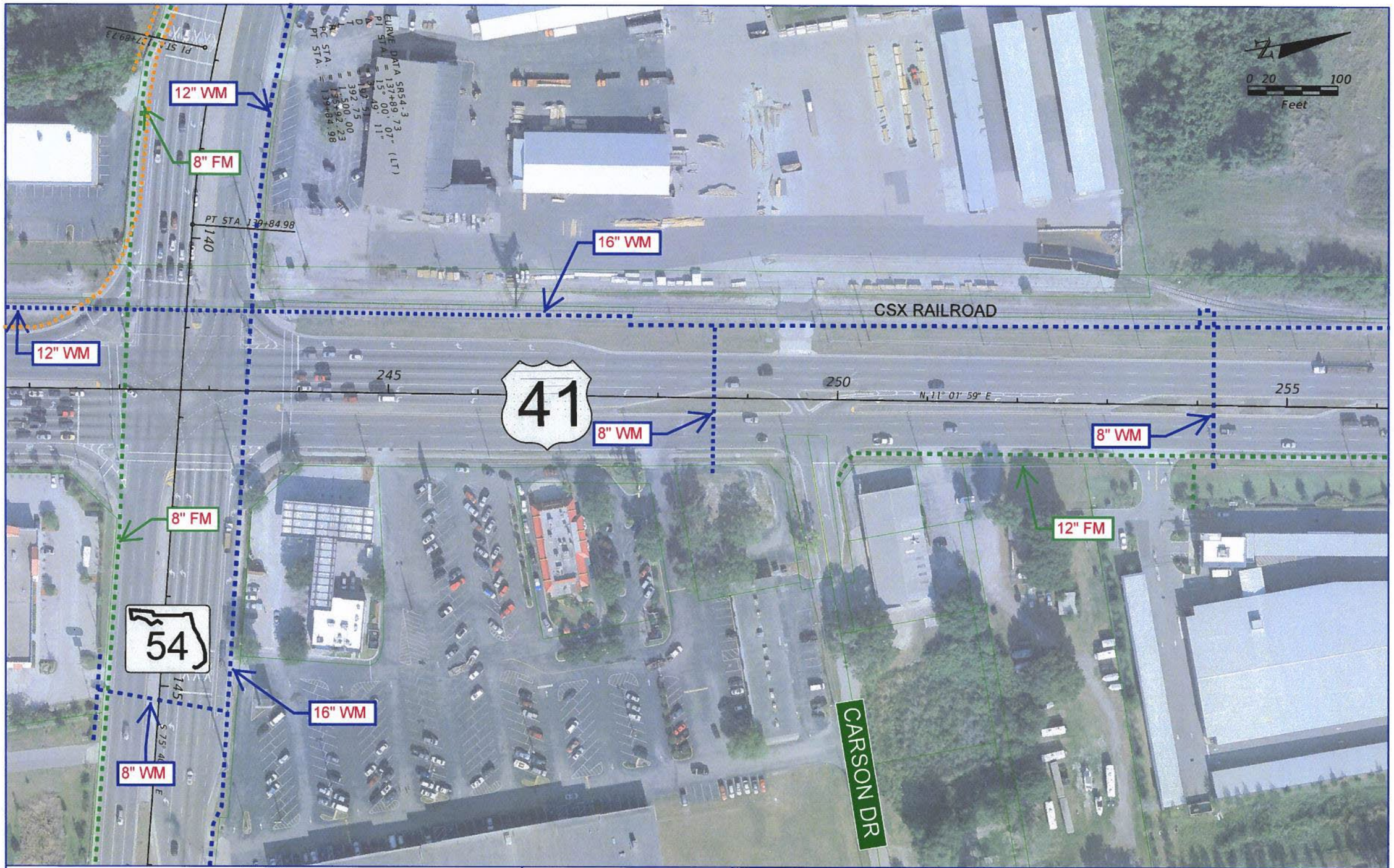

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	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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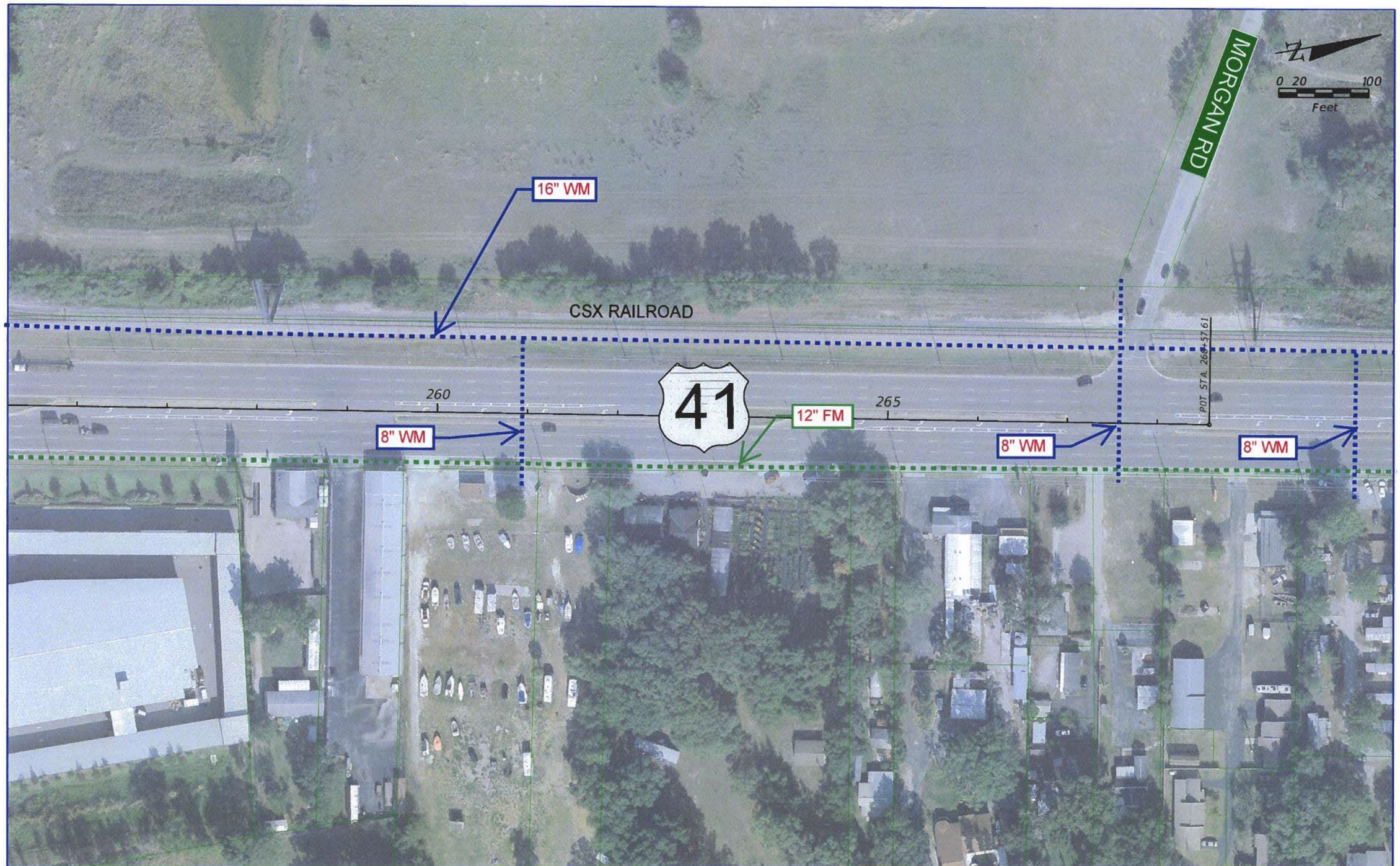

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US 41/SR 54 PD&E STUDY

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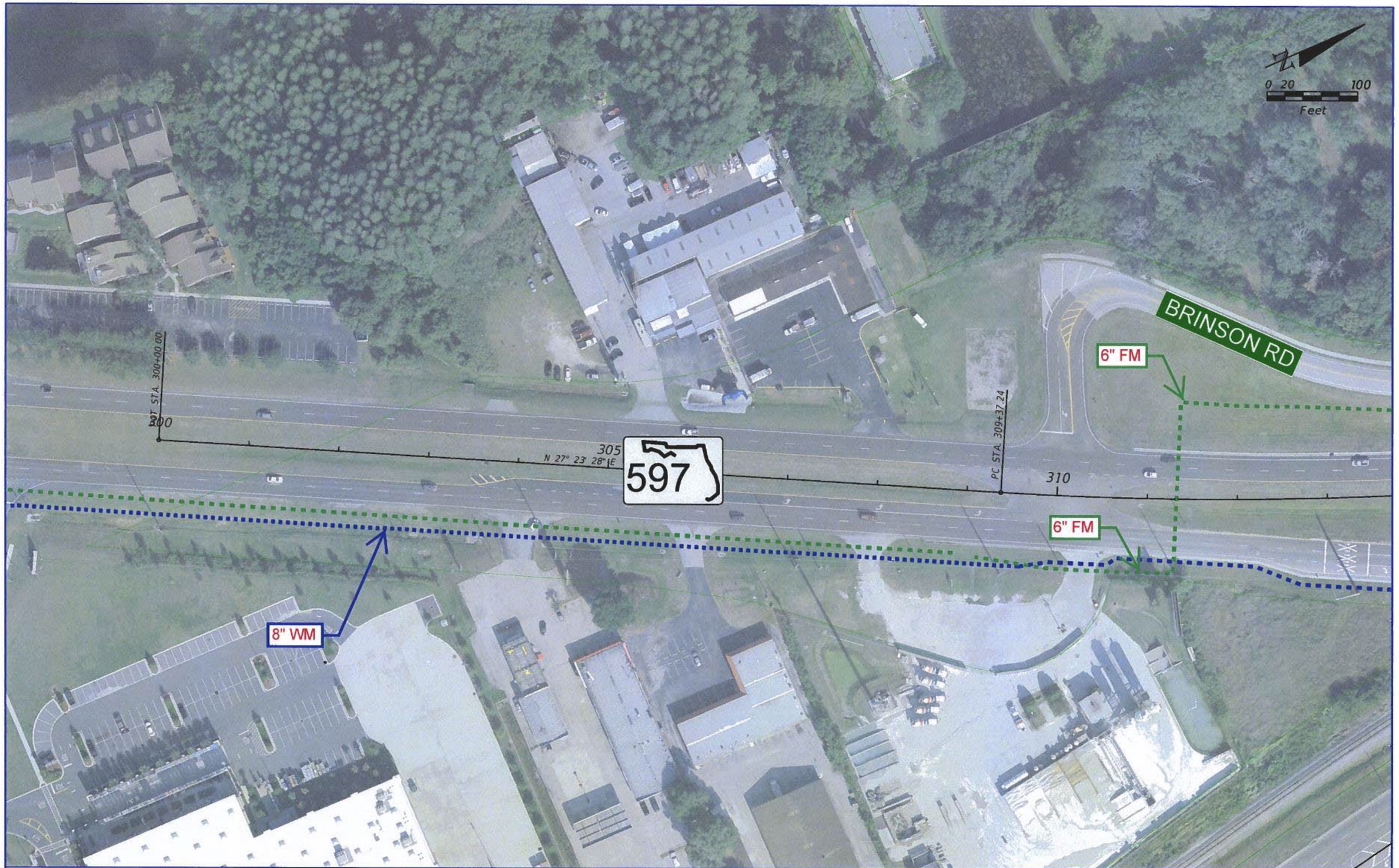

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US 41/SR 54 PD&E STUDY

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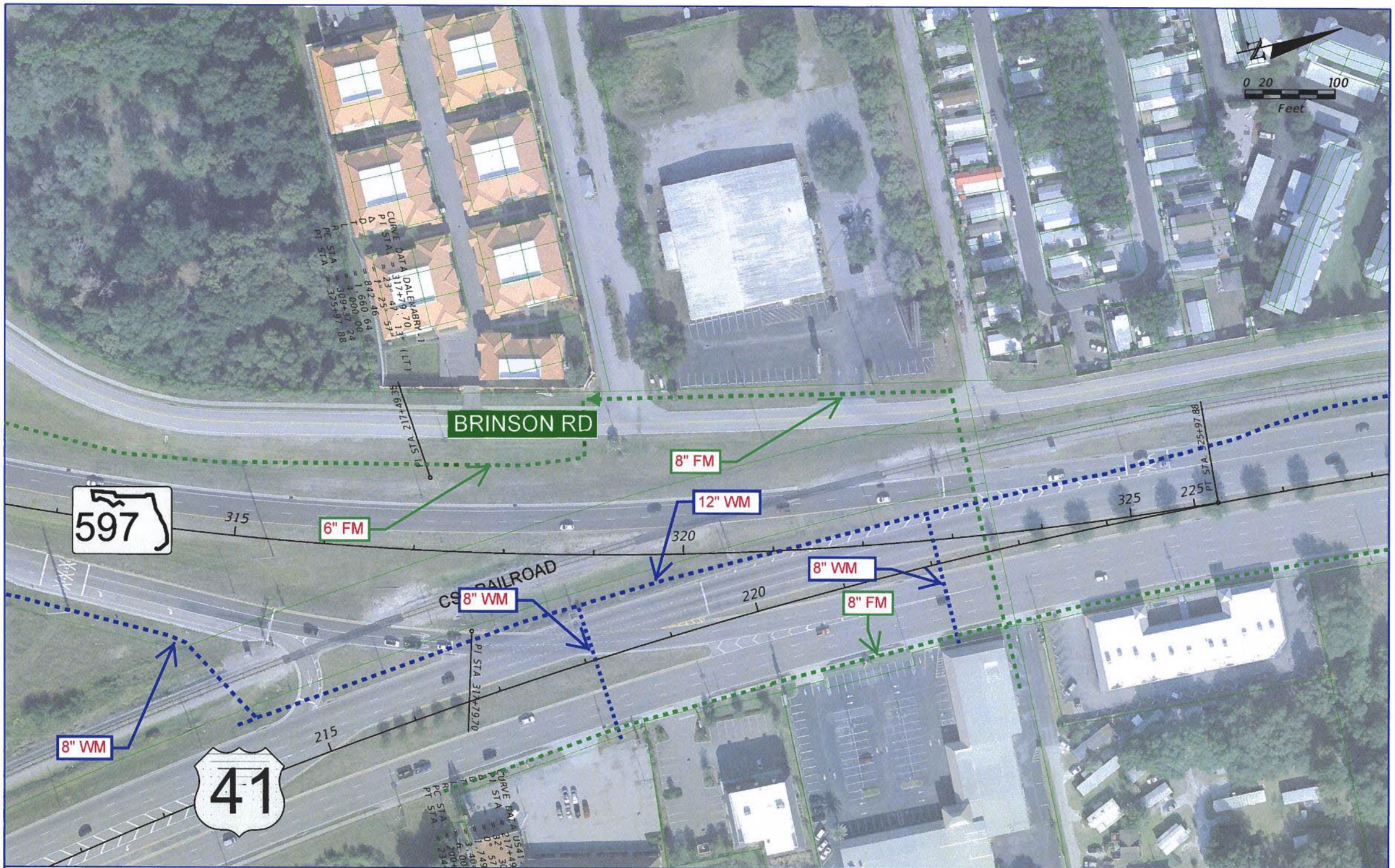

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US 41/SR 54 PD&E STUDY

SHEET NO. 12

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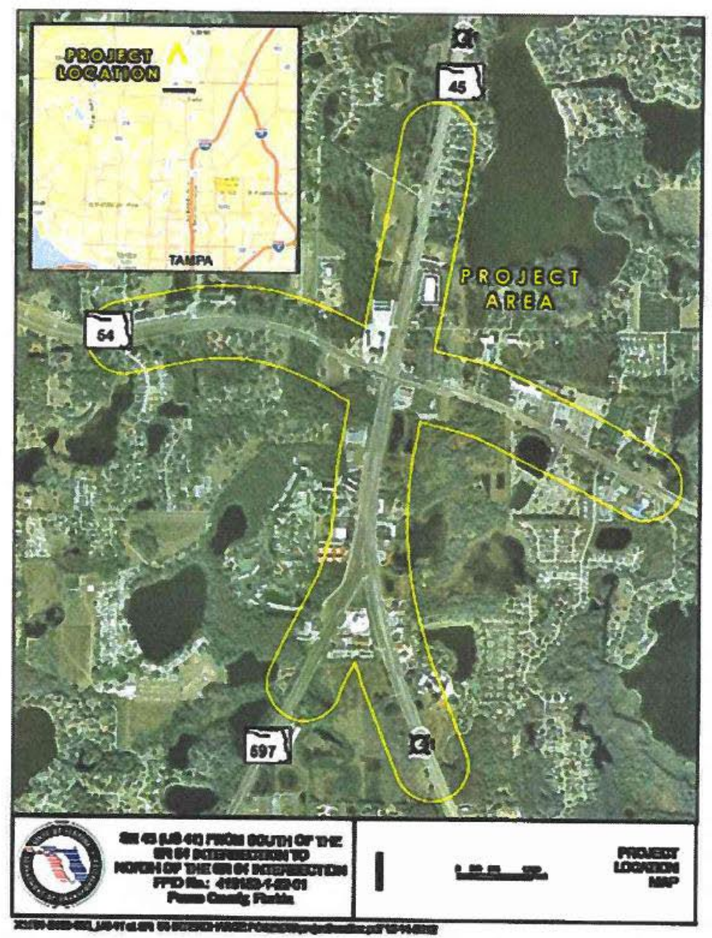
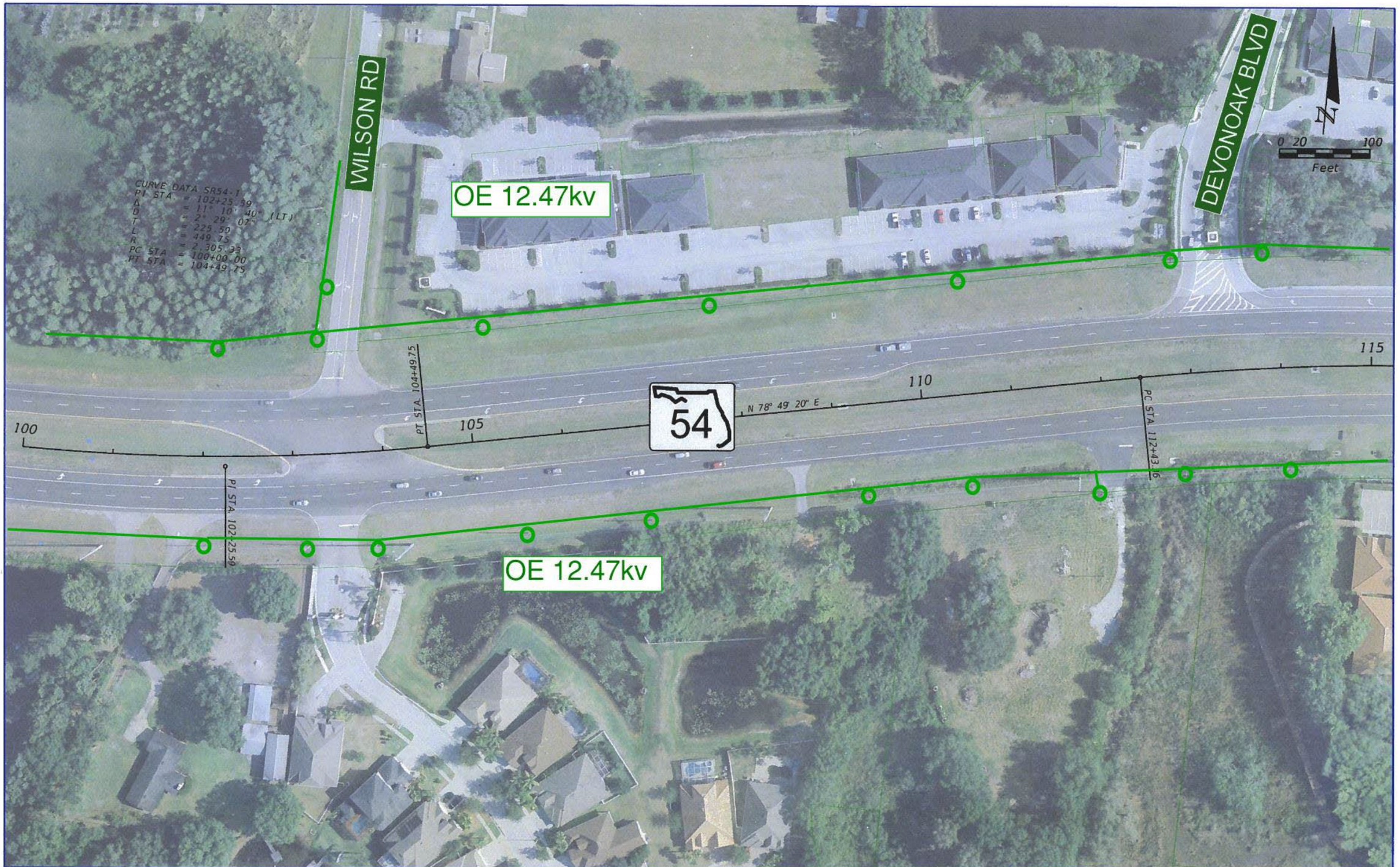
Financial Project ID: 419182-1-22-01
SR 45 (US41) from South of the SR 54 Intersection to North of the SR 54 Intersection

PD&E Study



Duke Energy Distribution Facility
Locations for preliminary only



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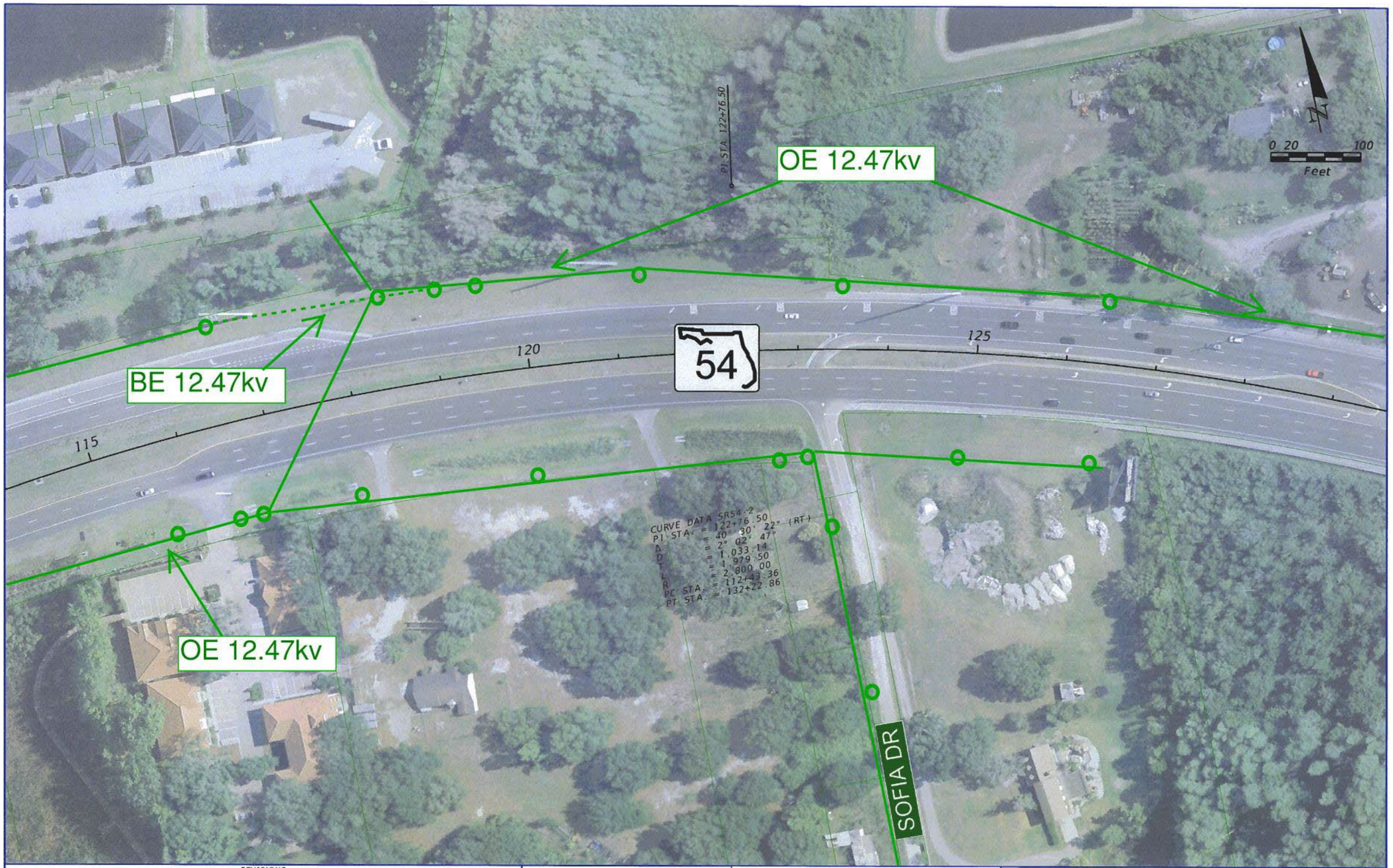

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US 41/SR 54 PD&E STUDY

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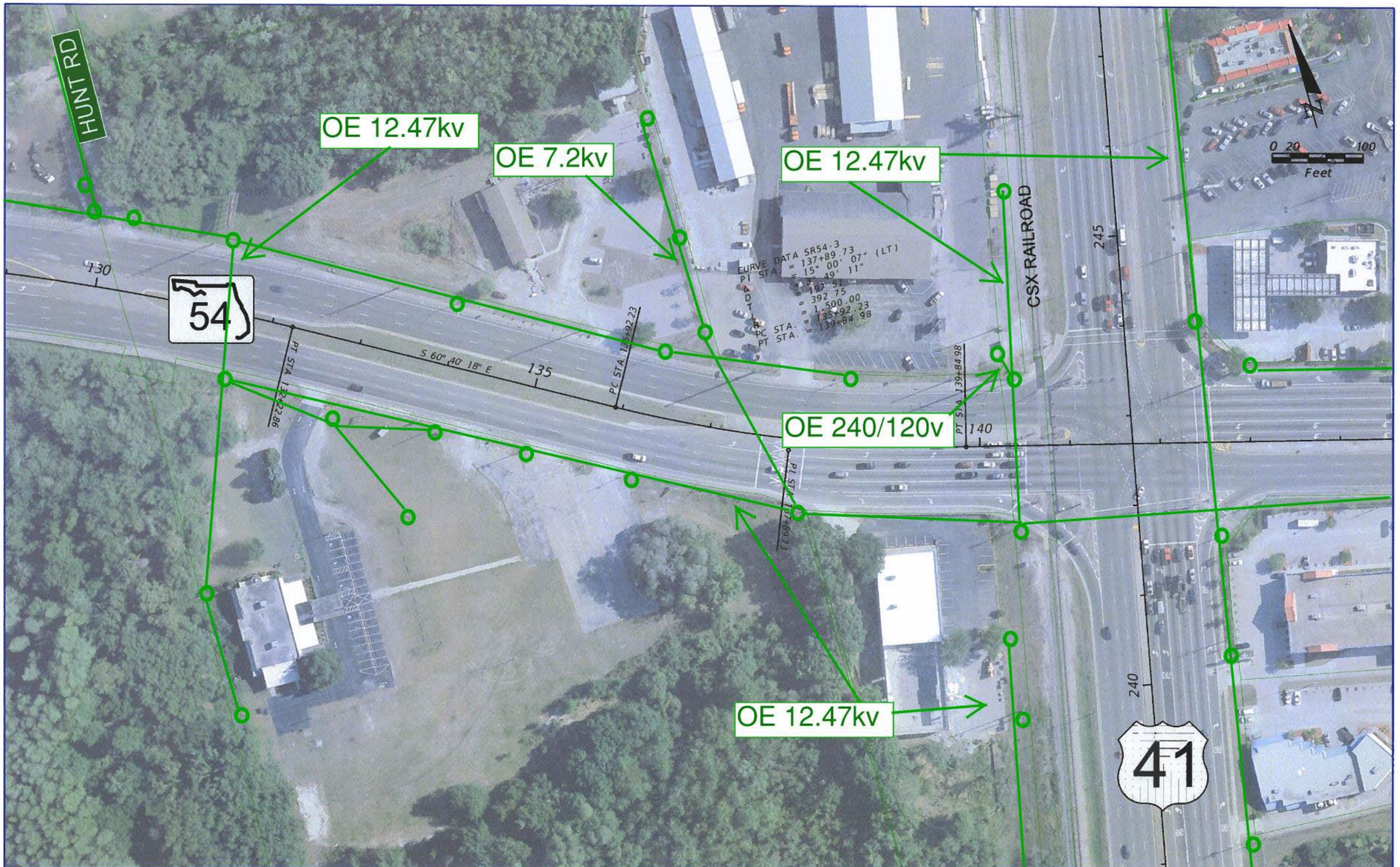

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US 41/SR 54 PD&E STUDY

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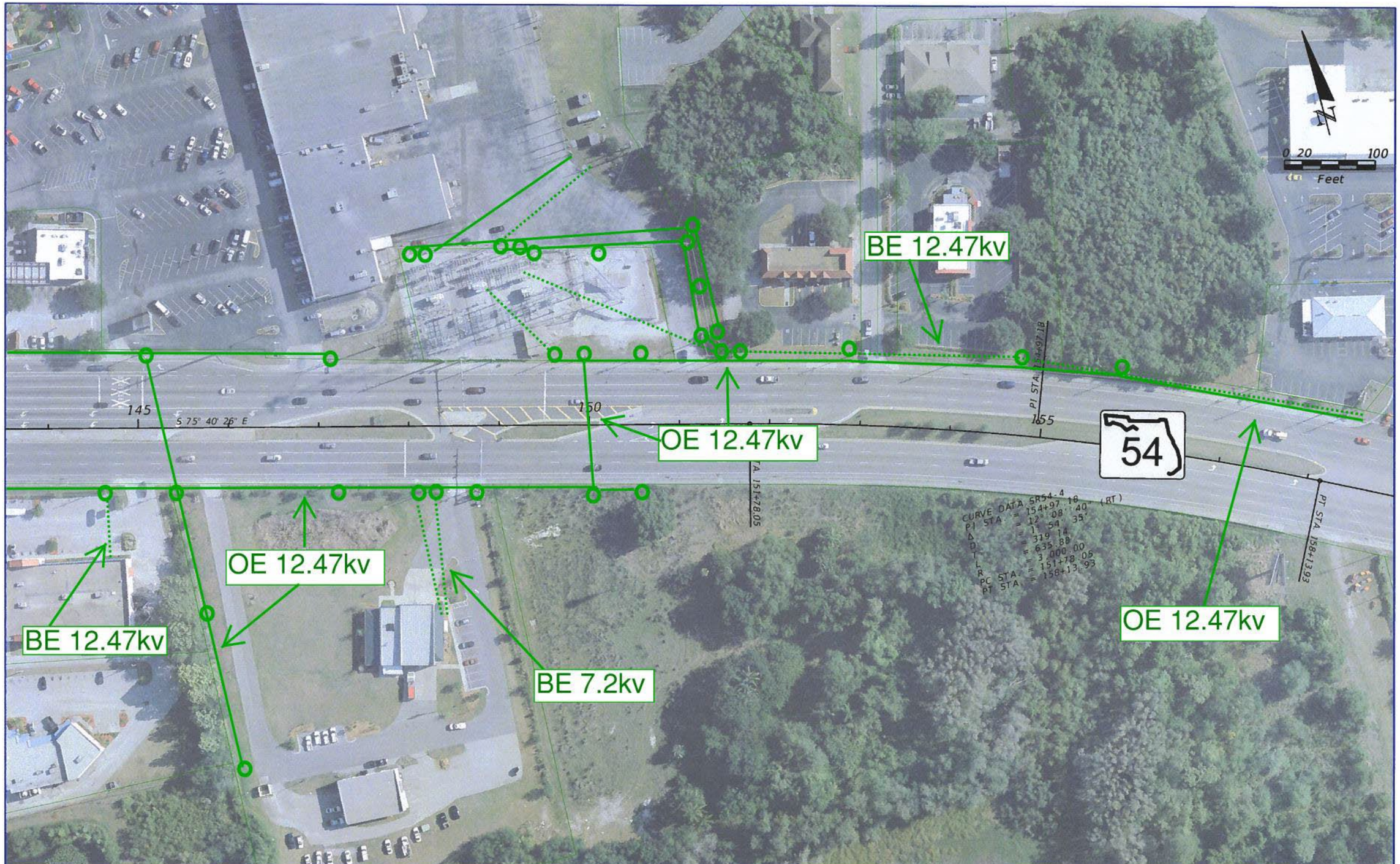

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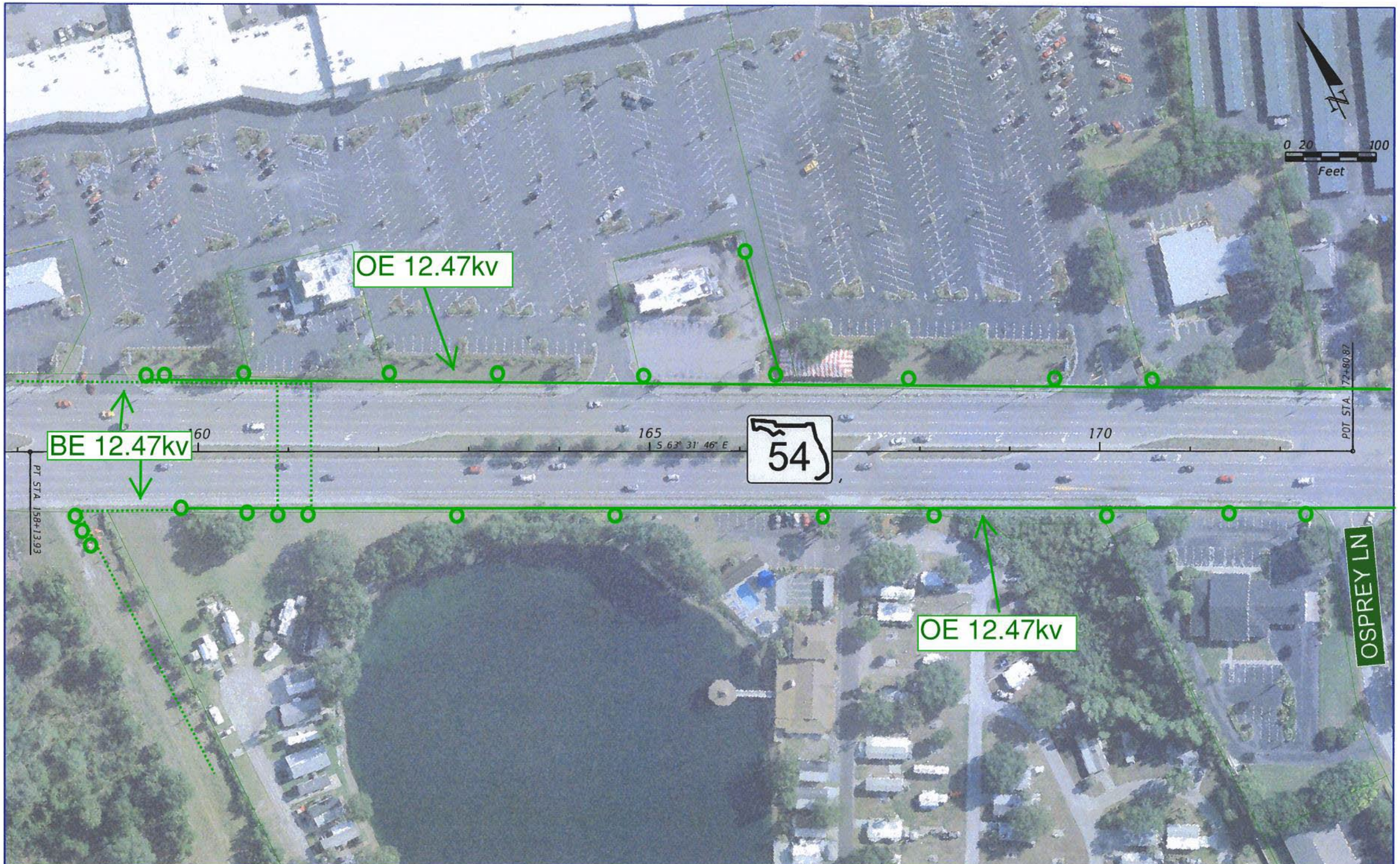

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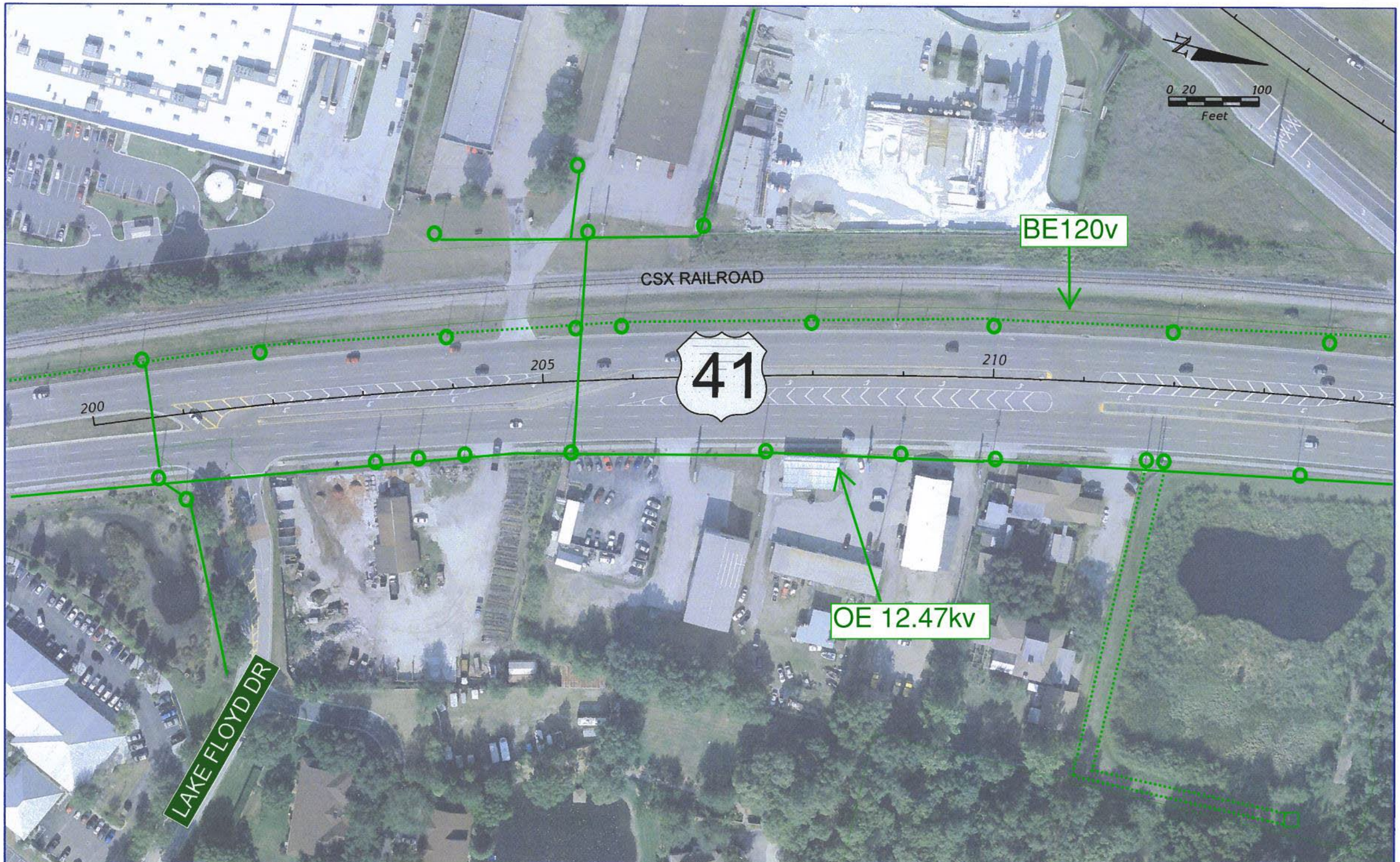

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

RS&H
Reynolds, Smith and Hills, Inc.
175 N. Westshore Boulevard, Suite 500
Tampa, Florida 33607-3999
813-289-5520
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

SHEET NO. 6

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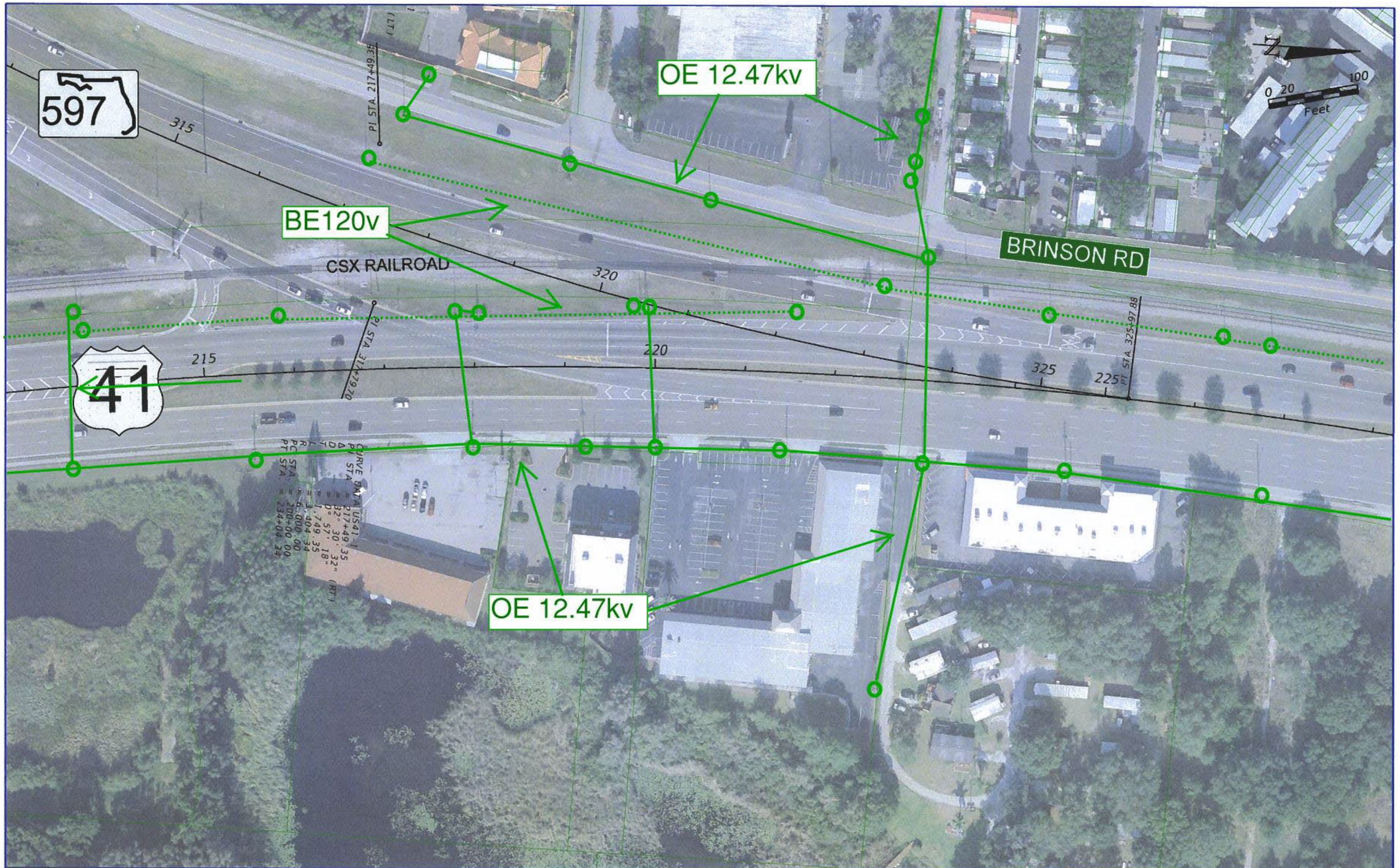

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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715 N. Westshore Boulevard, Suite 500
Tampa, Florida 33607-3999
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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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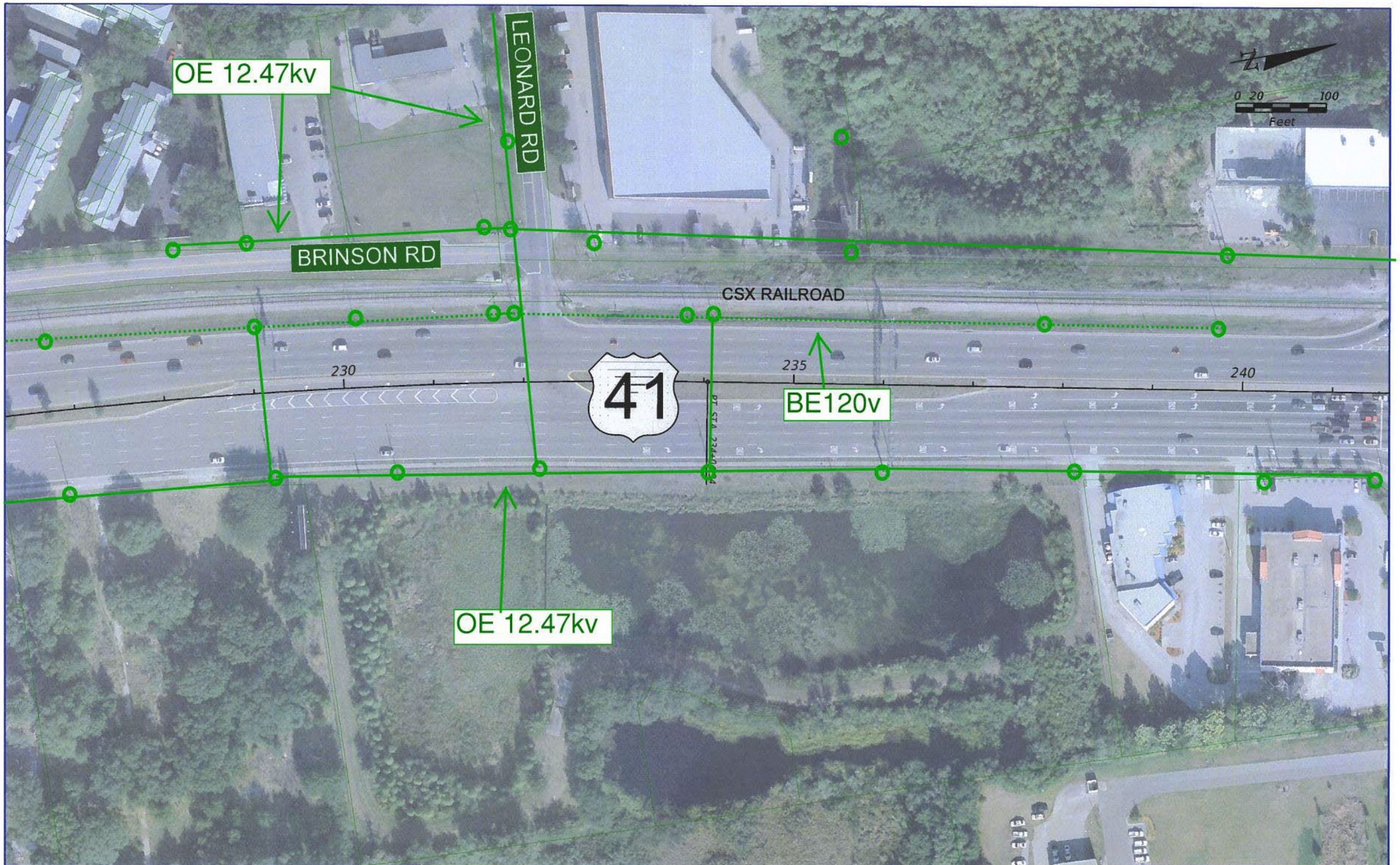

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715 N. Westshore Boulevard, Suite 500
Tampa, Florida 33607-3999
813-289-5550
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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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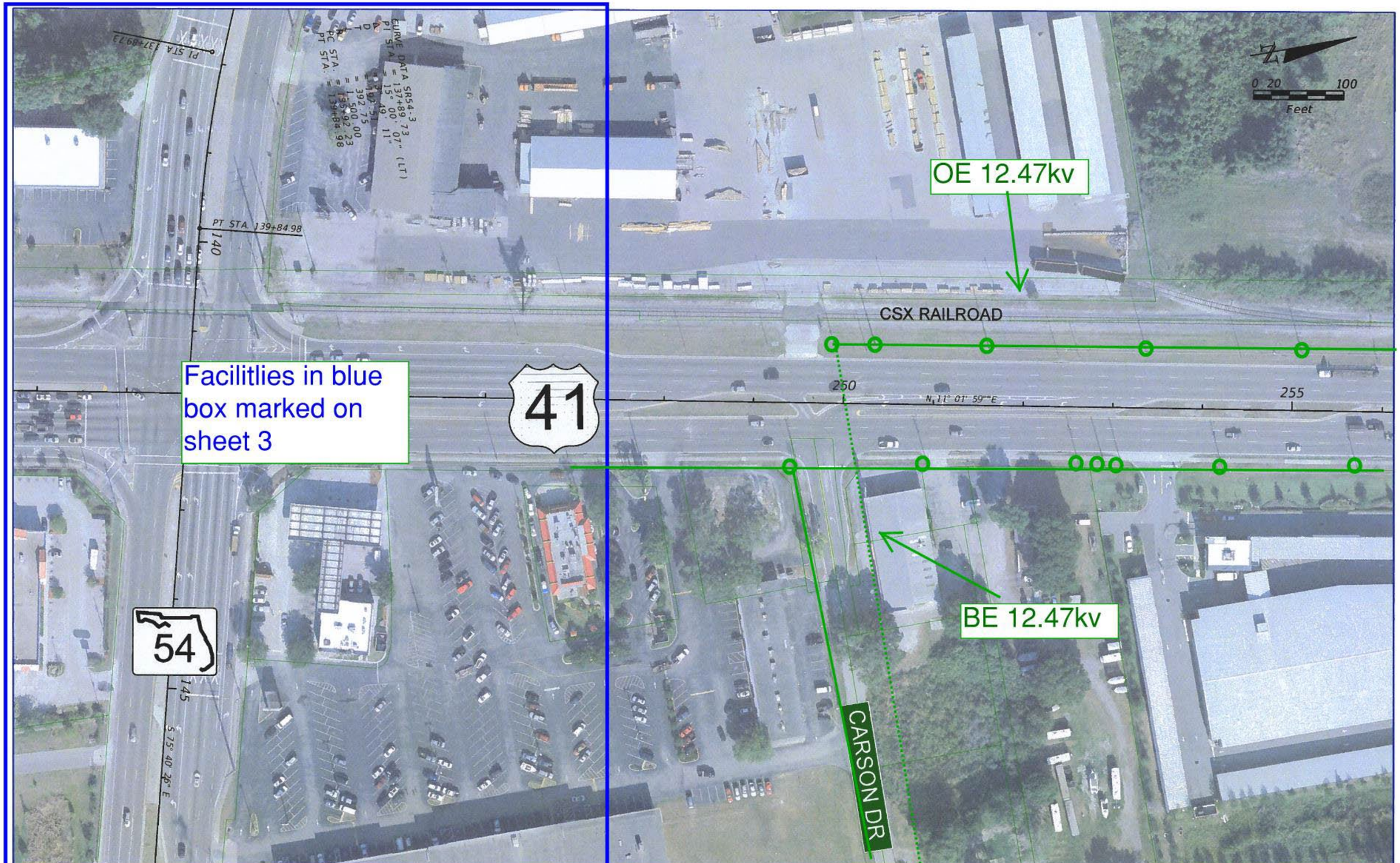

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

RS&H
Reynolds, Smith and Hills, Inc.
7115 N. Westshore Boulevard, Suite 500
Tampa, Florida 33607-3999
813-289-5550
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Architectural, Engineering, Planning and Environmental Services

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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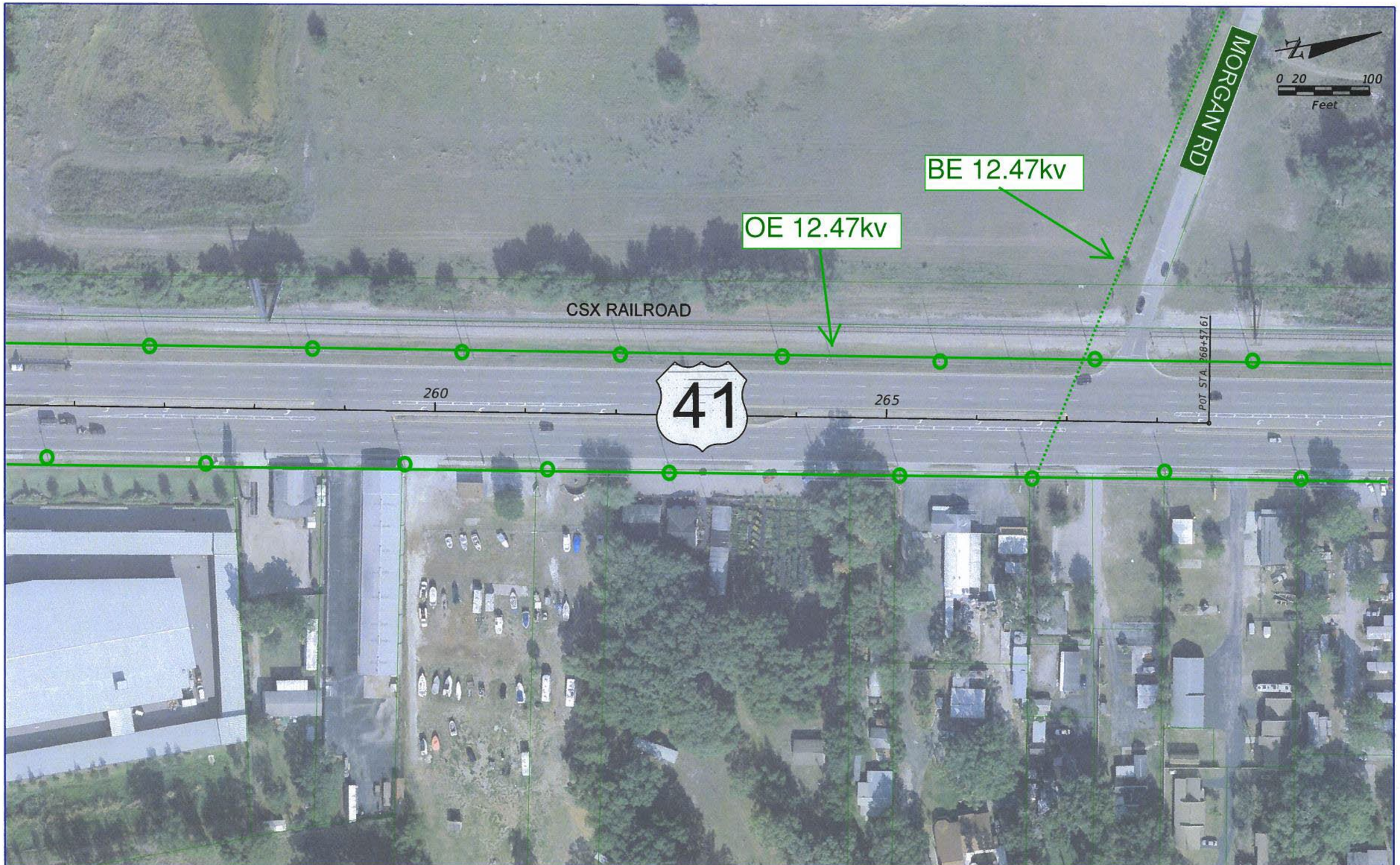

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DATE	DESCRIPTION	DATE	DESCRIPTION

RS&H
Reynolds, Smith and Hills, Inc.
11115 N. Westshore Boulevard, Suite 500
Tampa, Florida 33607-3999
813-289-5550
Certificate of Authorization No. 5630
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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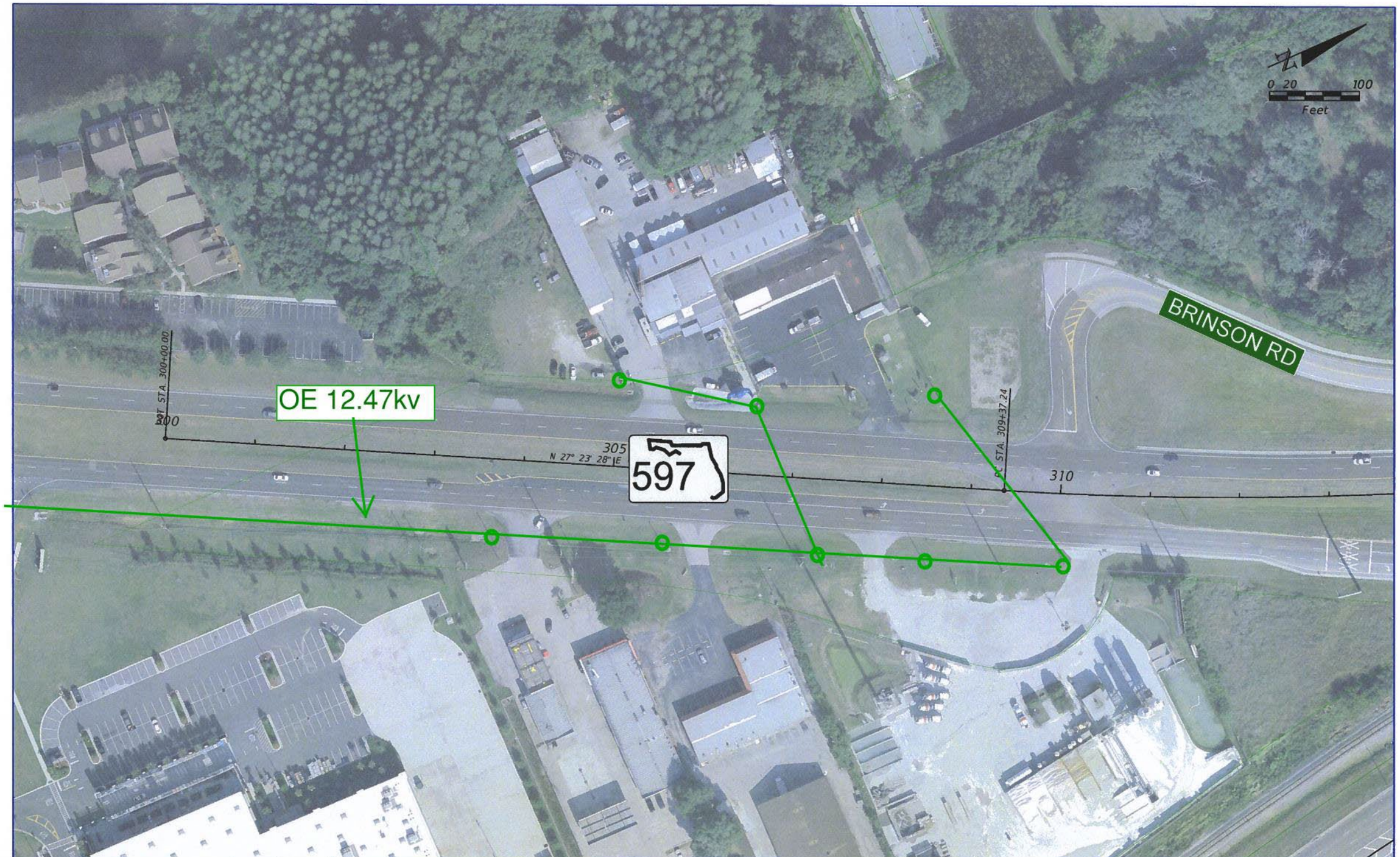

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715 N. Westshore Boulevard, Suite 500
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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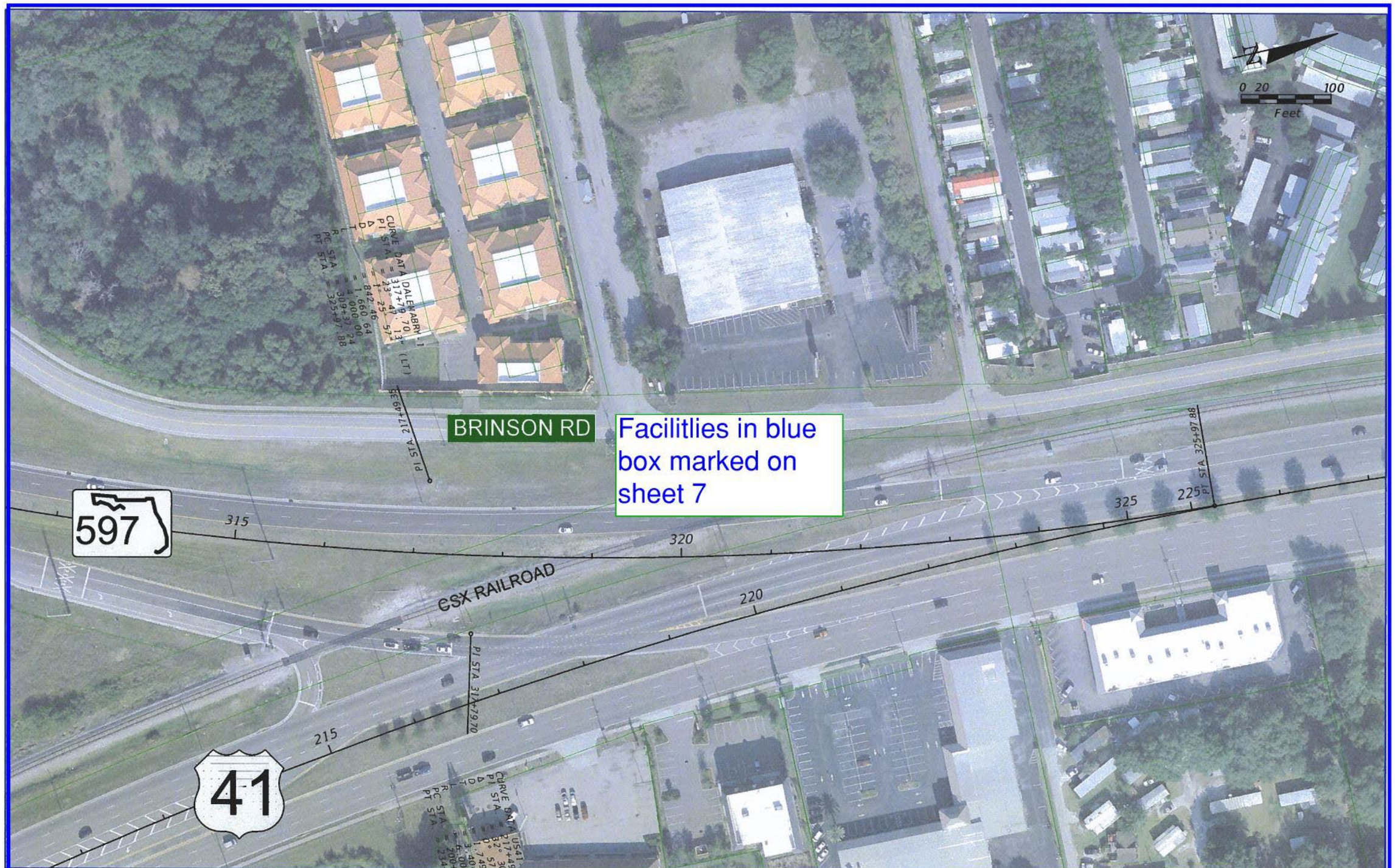

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

SHEET NO. 12

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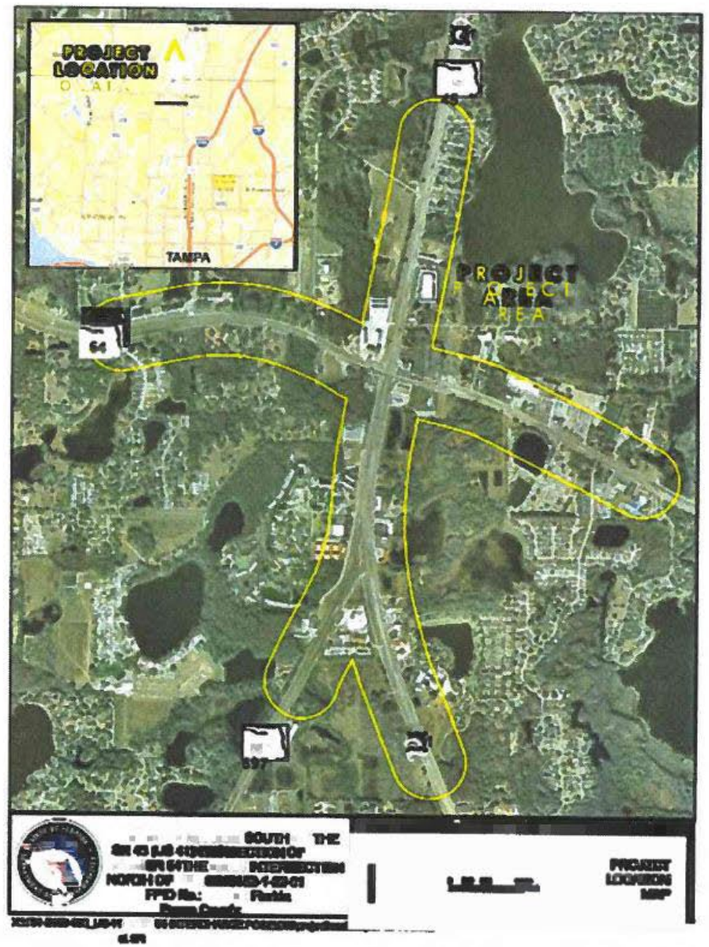
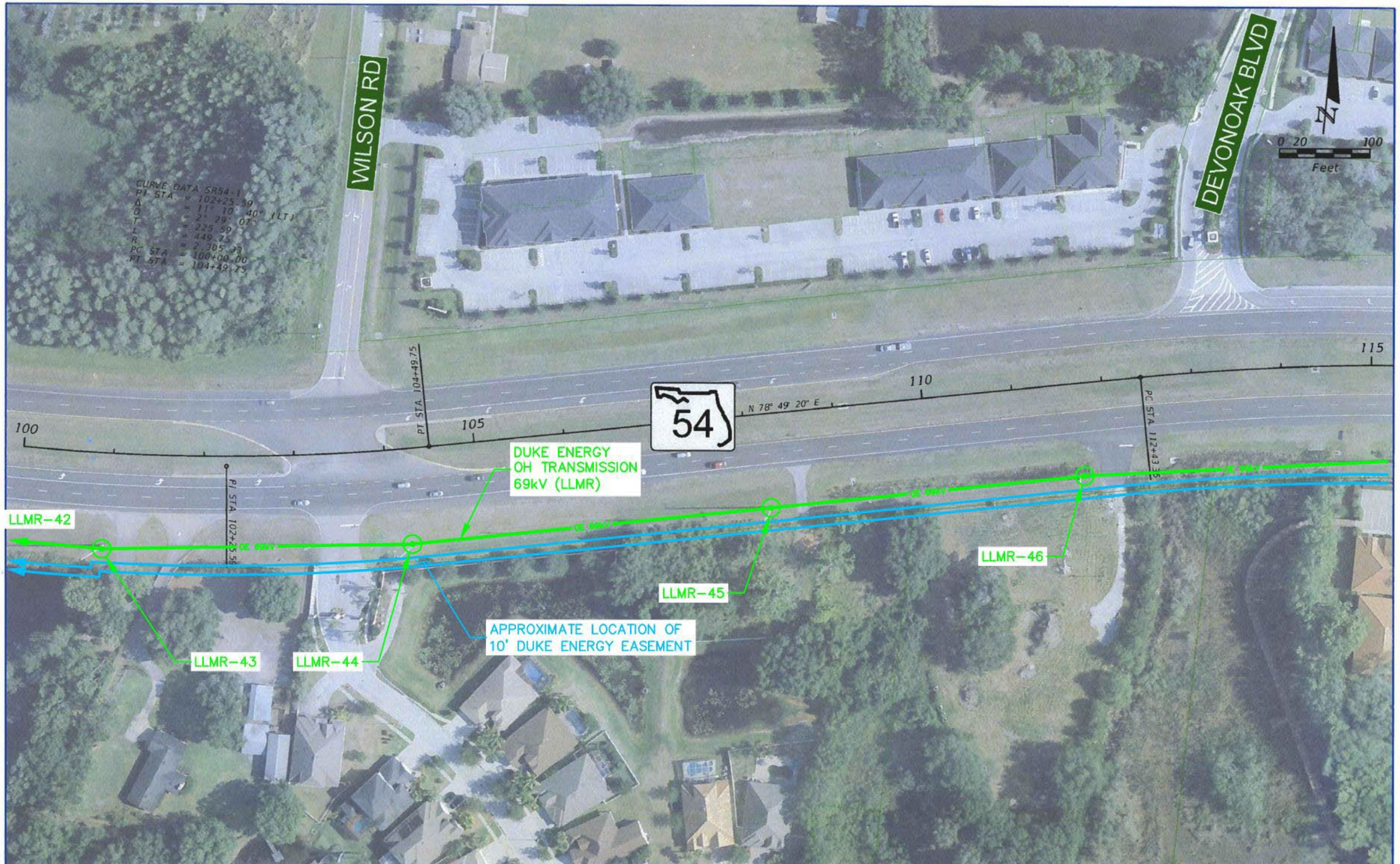
Financial Project ID: 419182-1-22-01
SR 45 (US41) from South of the SR 54 Intersection to North of the SR 54 Intersection

PD&E Study

Duke Energy Transmission Facility
Locations for preliminary only





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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Reynolds, Smith and Hills, Inc.
715 N. Westshore Boulevard, Suite 500
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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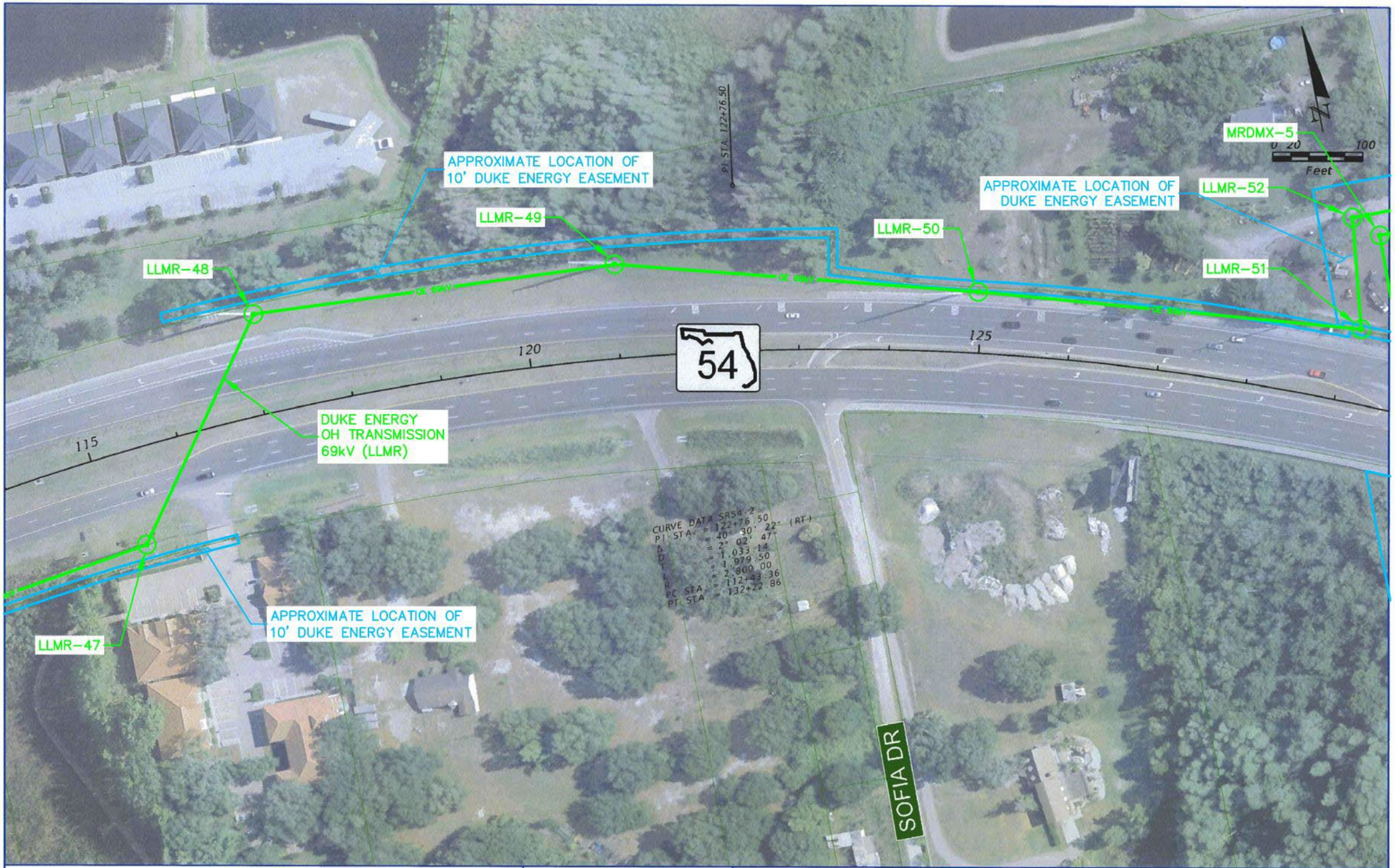

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DATE	DESCRIPTION	DATE	DESCRIPTION

RS&H
Reynolds, Smith and Hills, Inc.
4715 N. Westshore Boulevard, Suite 500
Tampa, Florida 33609-3989
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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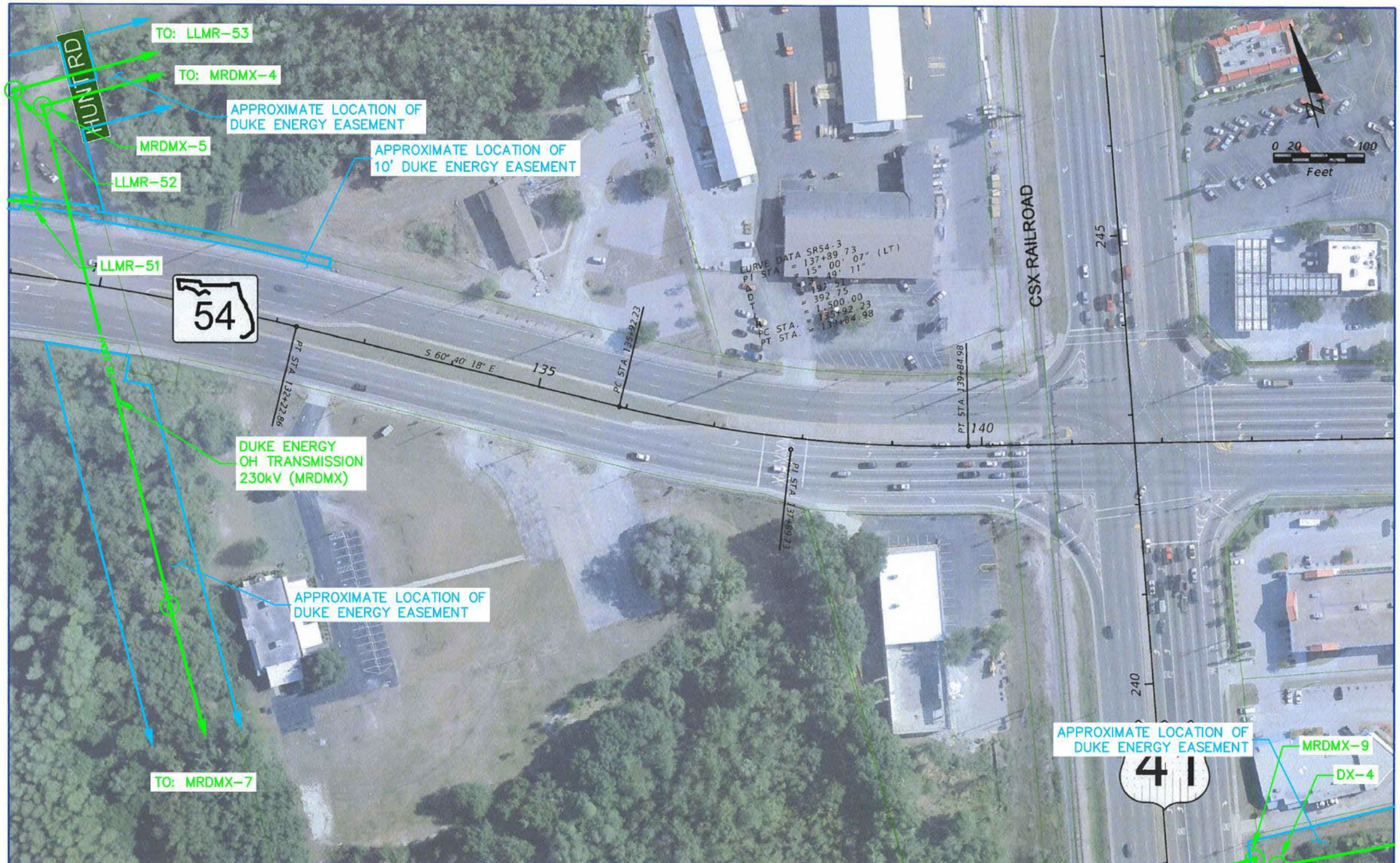

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

RS&H
Reynolds, Smith and Hills, Inc.
7775 W. Waterstone Boulevard, Suite 500
Tampa, Florida 33607-3999
813-289-5550
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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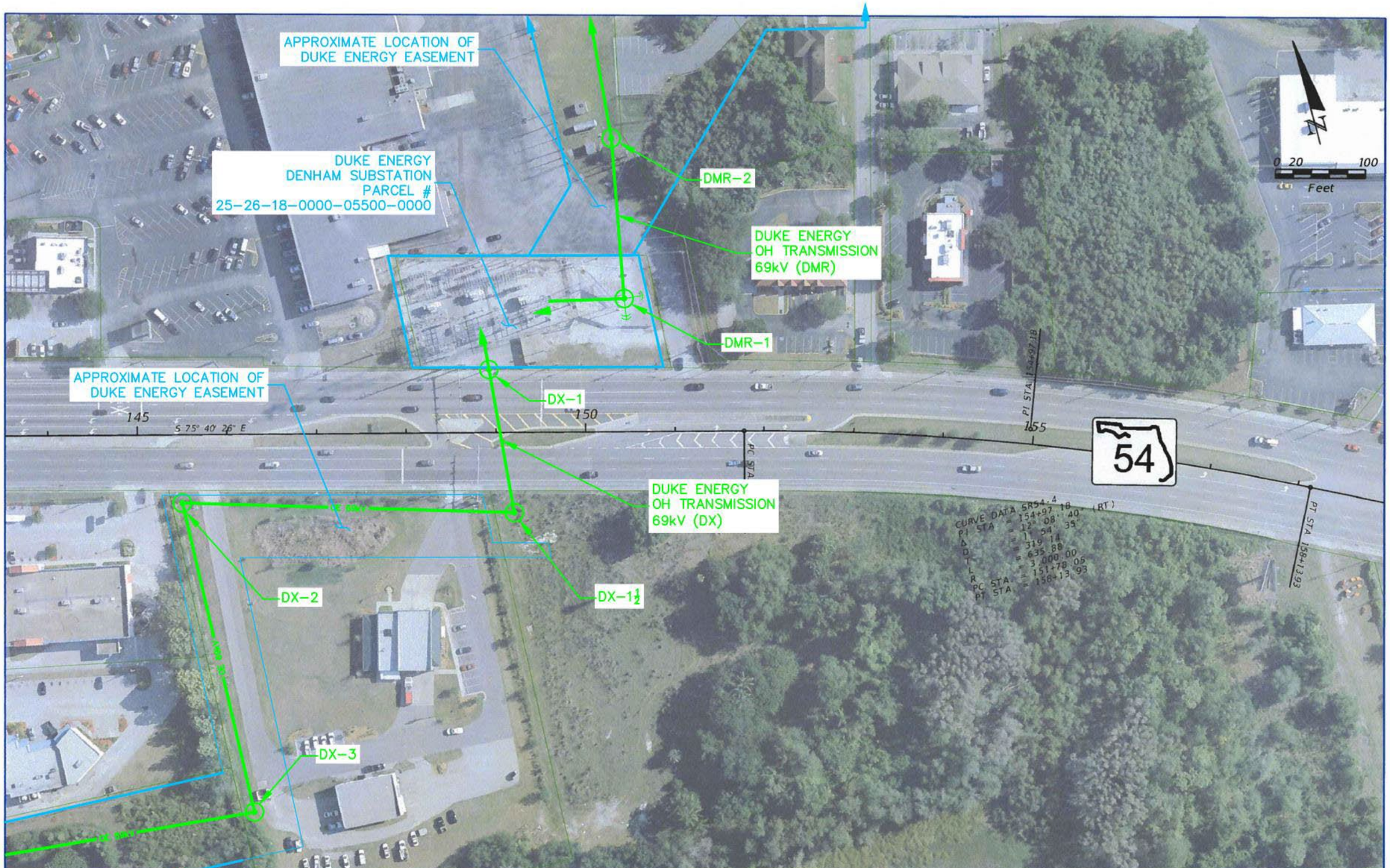

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

RS&H
Reynolds, Smith and Hills, Inc.
713 N. Westshore Boulevard, Suite 500
Tampa, Florida 33607-3999
813-289-5550
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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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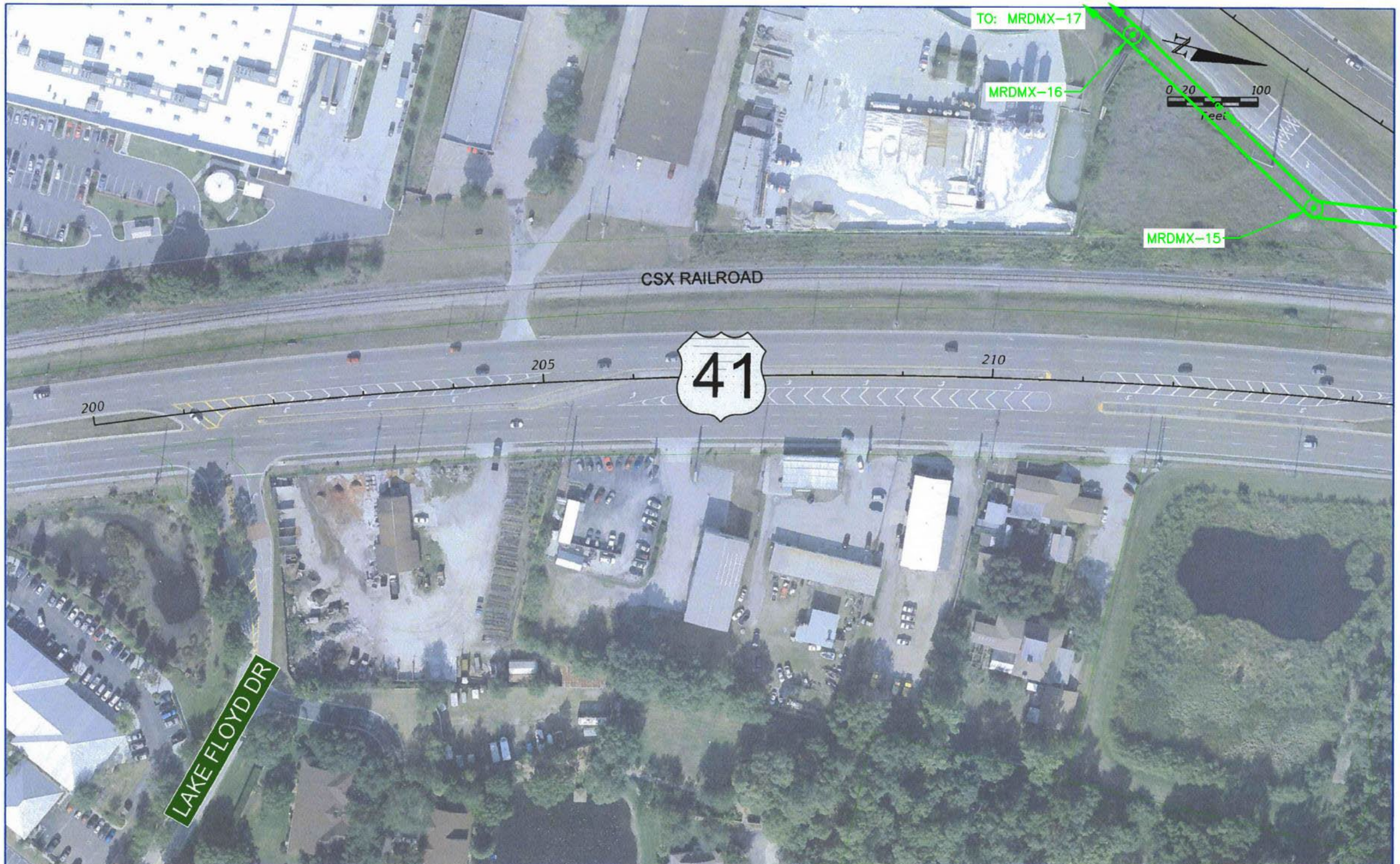

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

RS&H
Reynolds, Smith and Hills, Inc.
615 N. Westshore Boulevard, Suite 500
Tampa, Florida 33607-3999
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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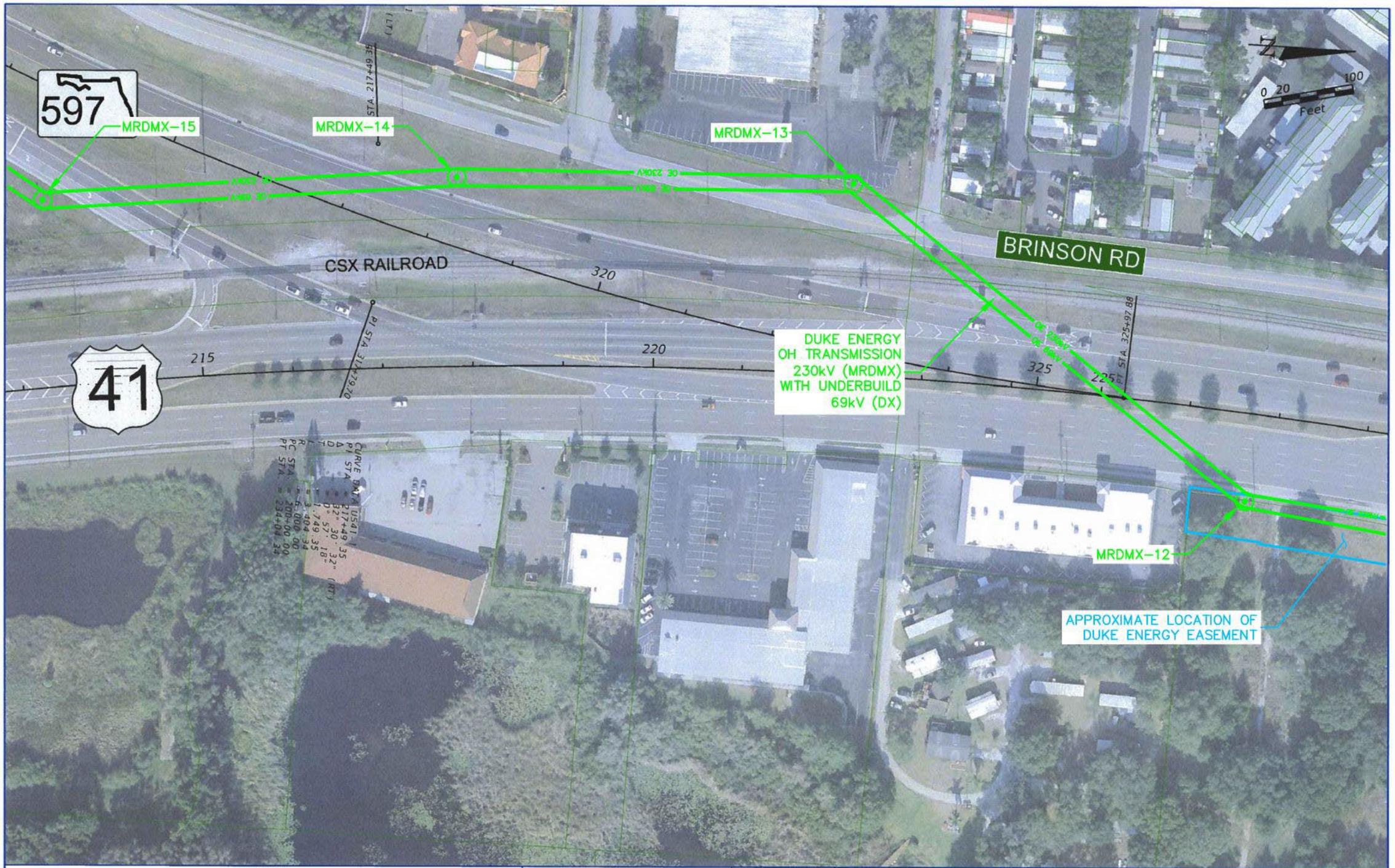

REVISIONS			
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RS&H
Reynolds, Smith and Hills, Inc.
115 N. Westshore Boulevard, Suite 500
Tampa, Florida 33607-3999
813-289-5550
Certificate of Authorization No. 5600
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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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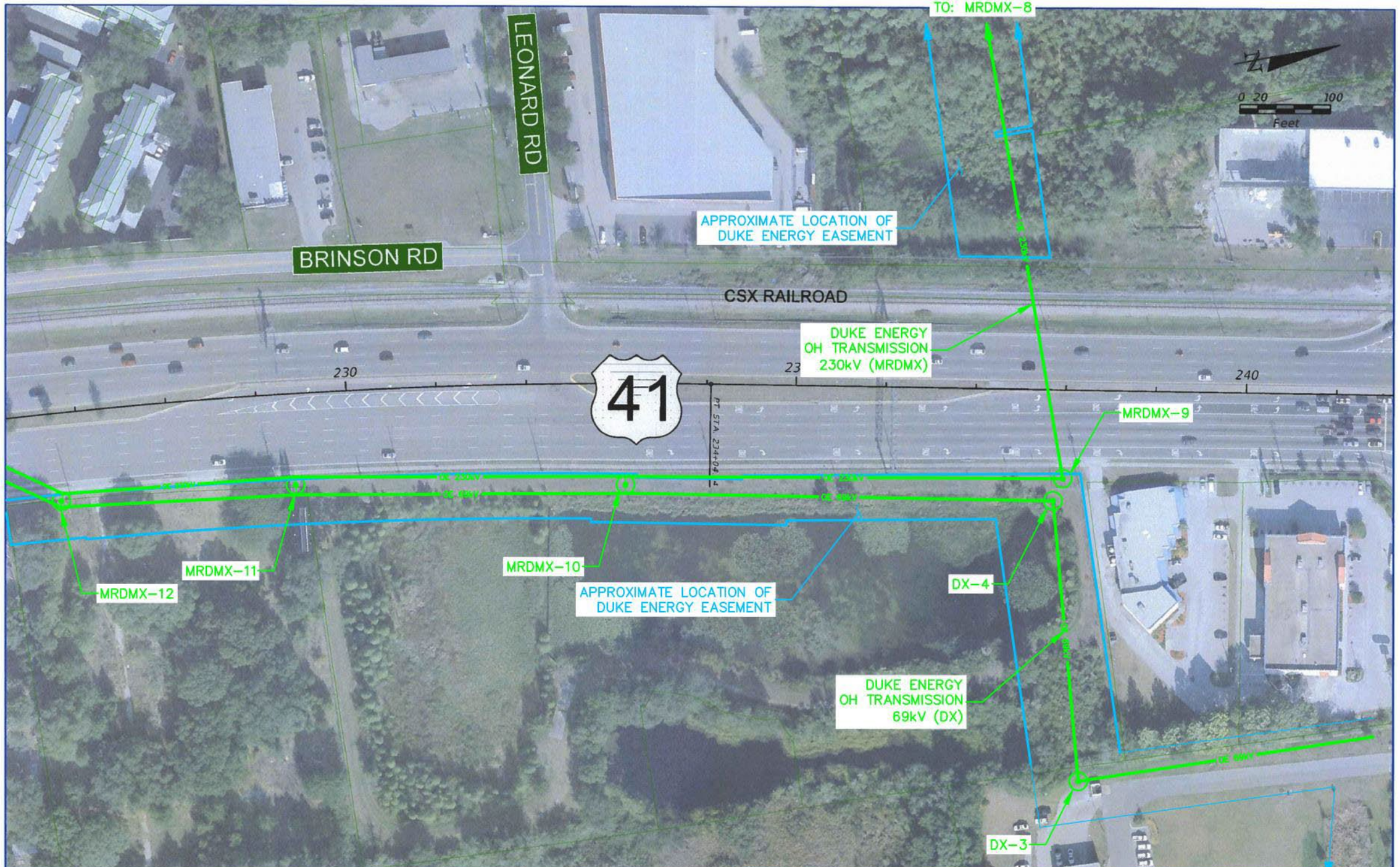

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

RS&H
Reynolds, Smith and Hills, Inc.
715 N. Westshore Boulevard, Suite 500
Tampa, Florida 33607-3999
813-289-5530
Certificate of Authorization No. 5820
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

SHEET NO. 8

REVISIONS		
DESCRIPTION	DATE	DESCRIPTION

RS&H
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1715 N. Westshore Boulevard, Suite 500
Tampa, Florida 33607-3999
813-289-5550
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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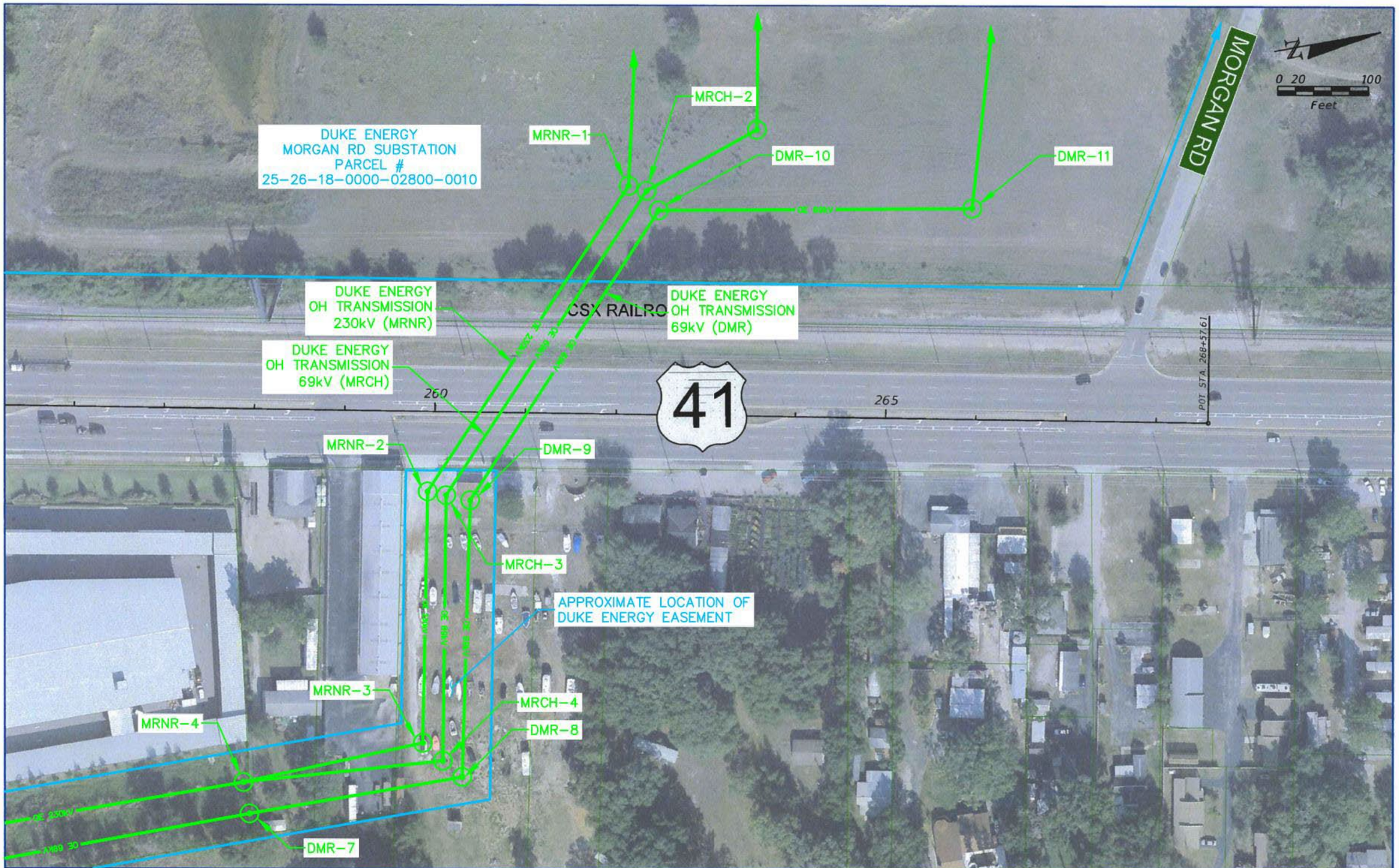

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

RS&H
Reynolds, Smith and Hills, Inc.
815 N. Westshore Boulevard, Suite 500
Tampa, Florida 33607-3999
813-289-9550
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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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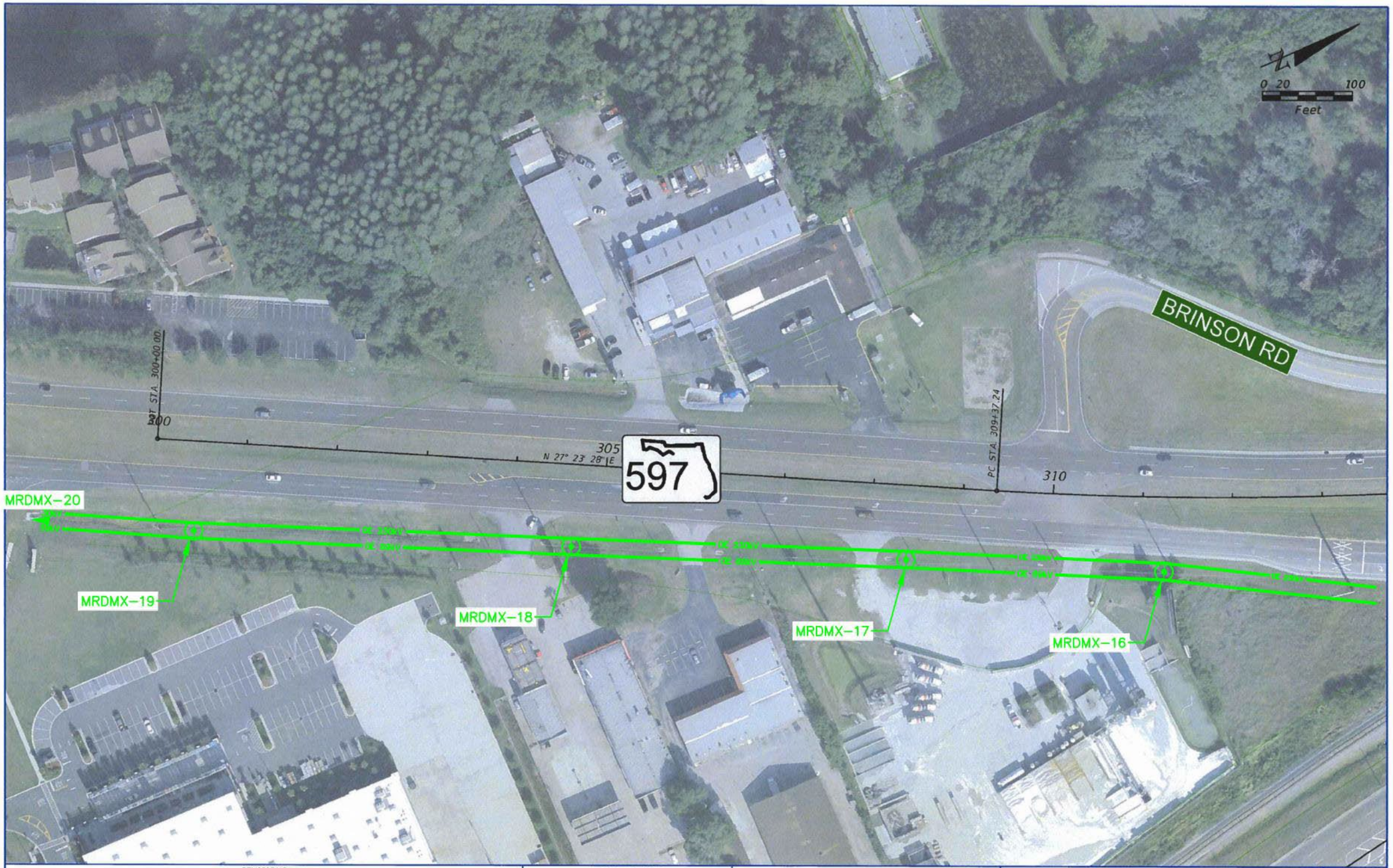

REVISIONS			
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1715 N. Westshore Boulevard, Suite 500
Tampa, Florida 33607-3969
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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

SHEET NO.
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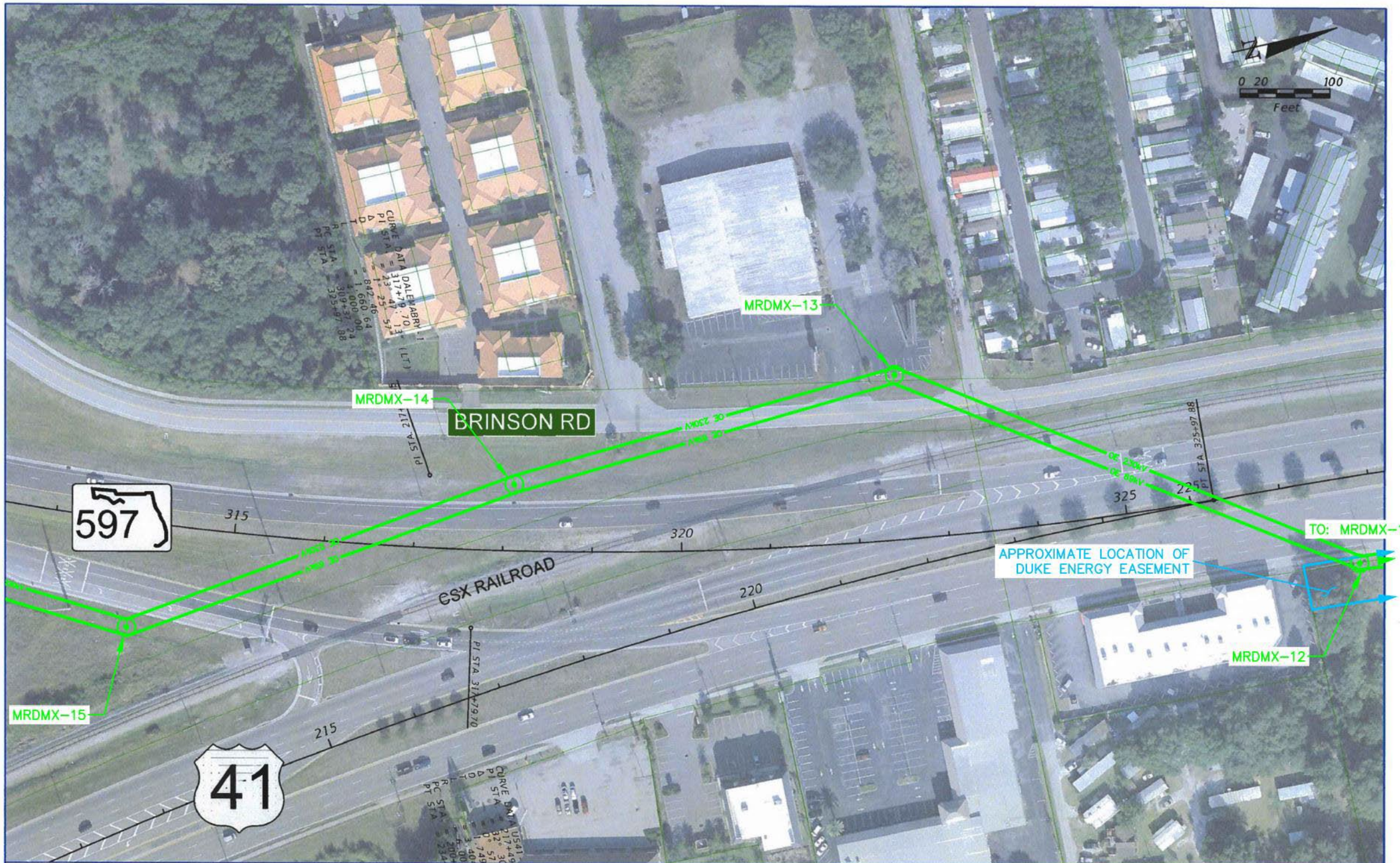

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Tampa, Florida 33607-3999
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DEPARTMENT OF TRANSPORTATION

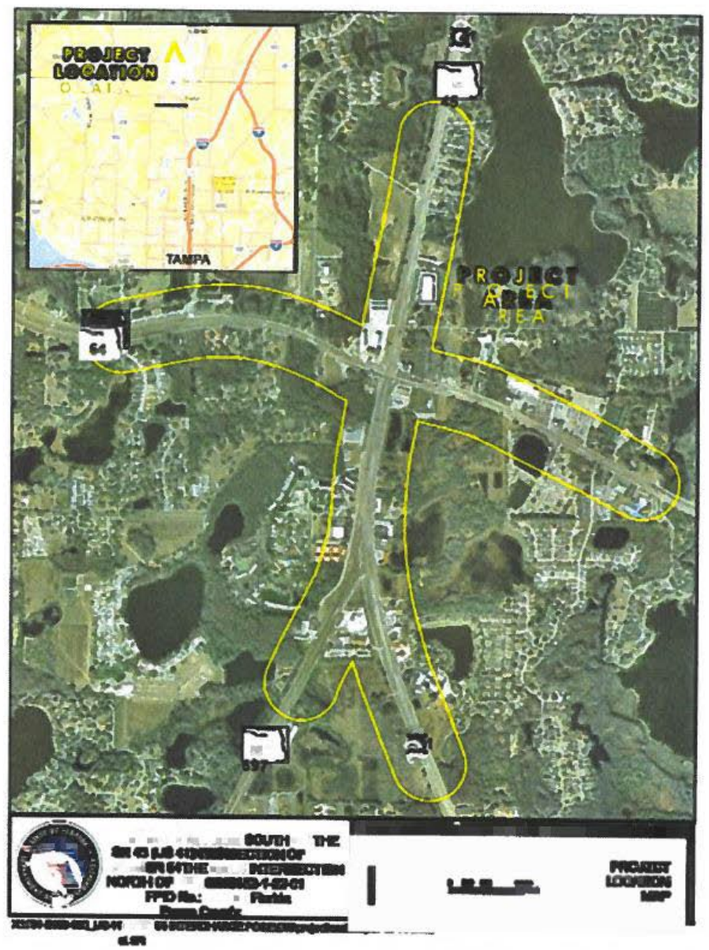
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

SHEET NO. 12

Financial Project ID: 419182-1-22-01
SR 45 (US41) from South of the SR 54 Intersection to North of the SR 54 Intersection

PD&E Study



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DATE	DESCRIPTION	DATE	DESCRIPTION

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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

SHEET NO. 1

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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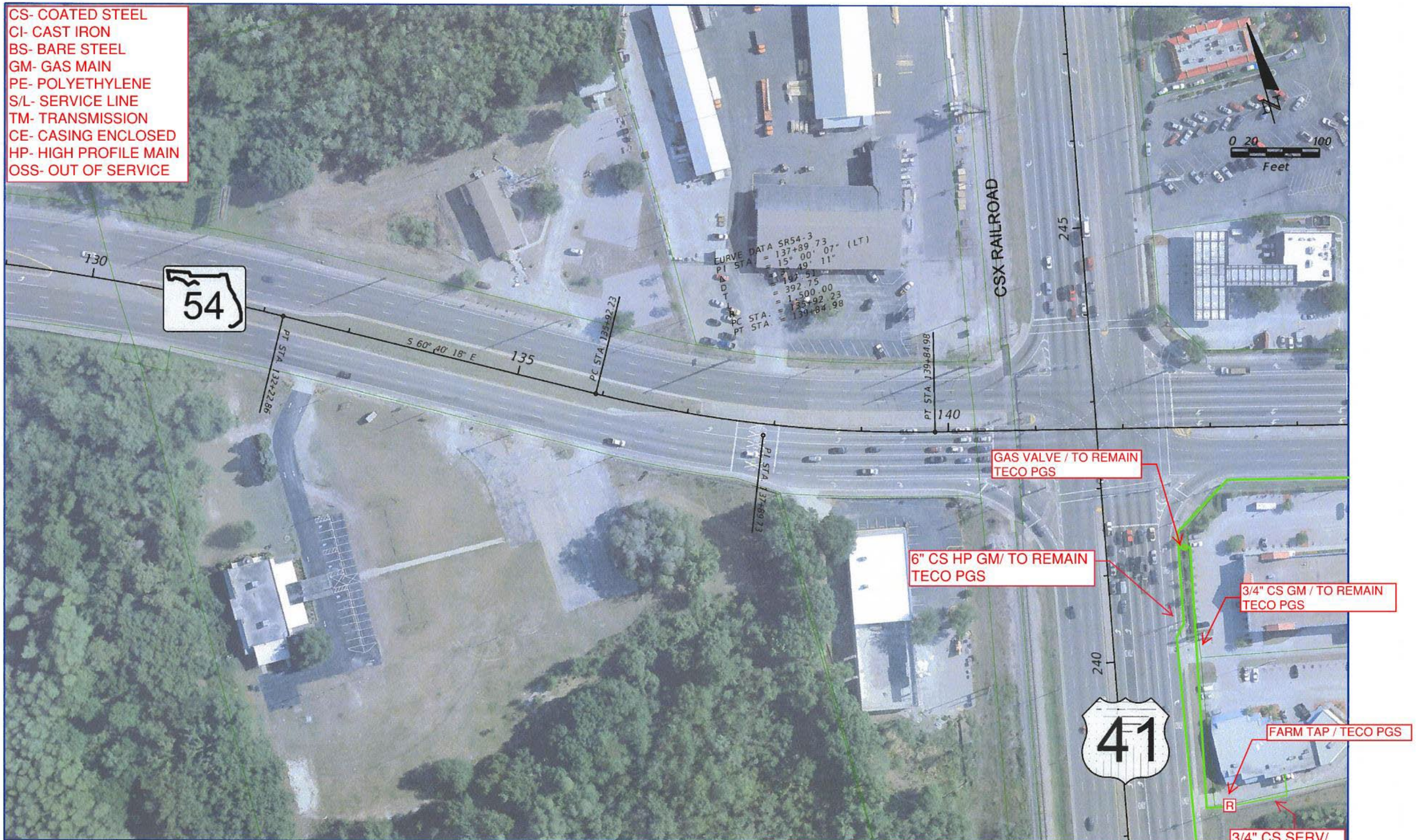

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DATE	DESCRIPTION	DATE	DESCRIPTION

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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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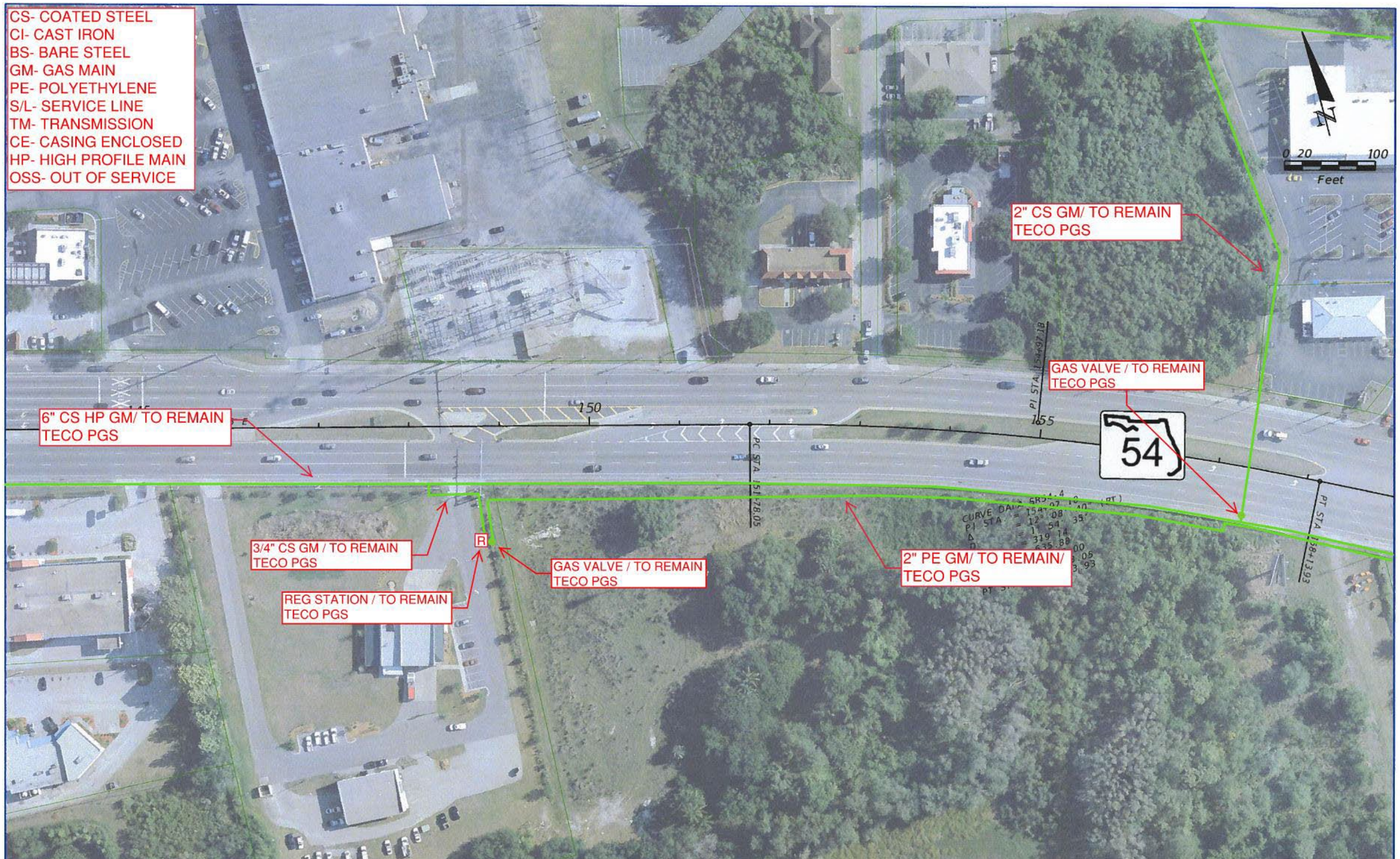

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DATE	DESCRIPTION	DATE	DESCRIPTION

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11115 N. Westshore Boulevard, Suite 500
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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

SHEET NO. 4

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CS- COATED STEEL
CI- CAST IRON
BS- BARE STEEL
GM- GAS MAIN
PE- POLYETHYLENE
S/L- SERVICE LINE
TM- TRANSMISSION
CE- CASING ENCLOSED
HP- HIGH PROFILE MAIN
OSS- OUT OF SERVICE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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RS&H
Reynolds, Smith and Hills, Inc.
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Tampa, Florida 33607-3999
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Certificate of Authorization No. 5620
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

SHEET NO. 5

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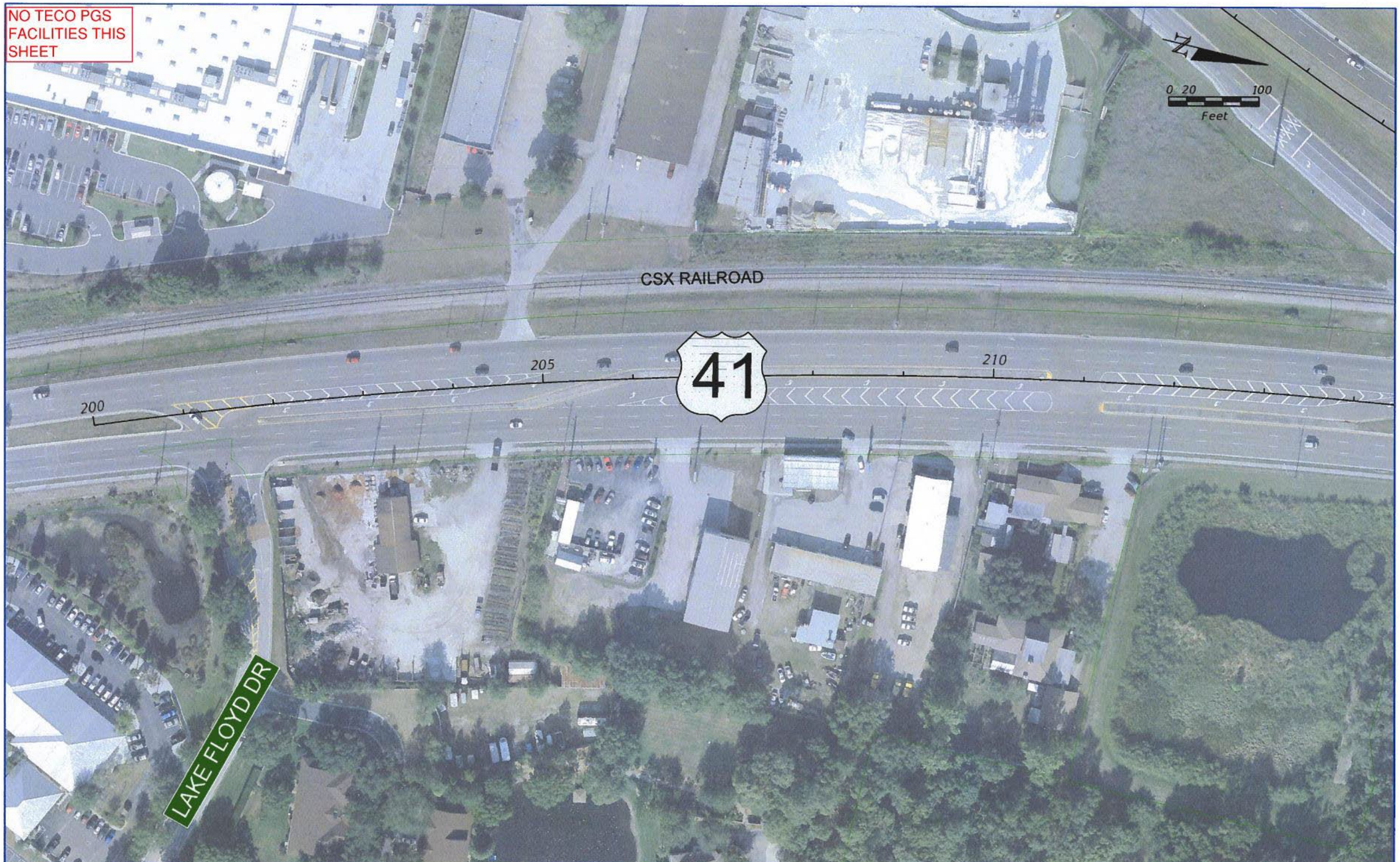

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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Reynolds, Smith and Hills, Inc.
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DEPARTMENT OF TRANSPORTATION

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US 41/SR 54 PD&E STUDY

SHEET NO. 6

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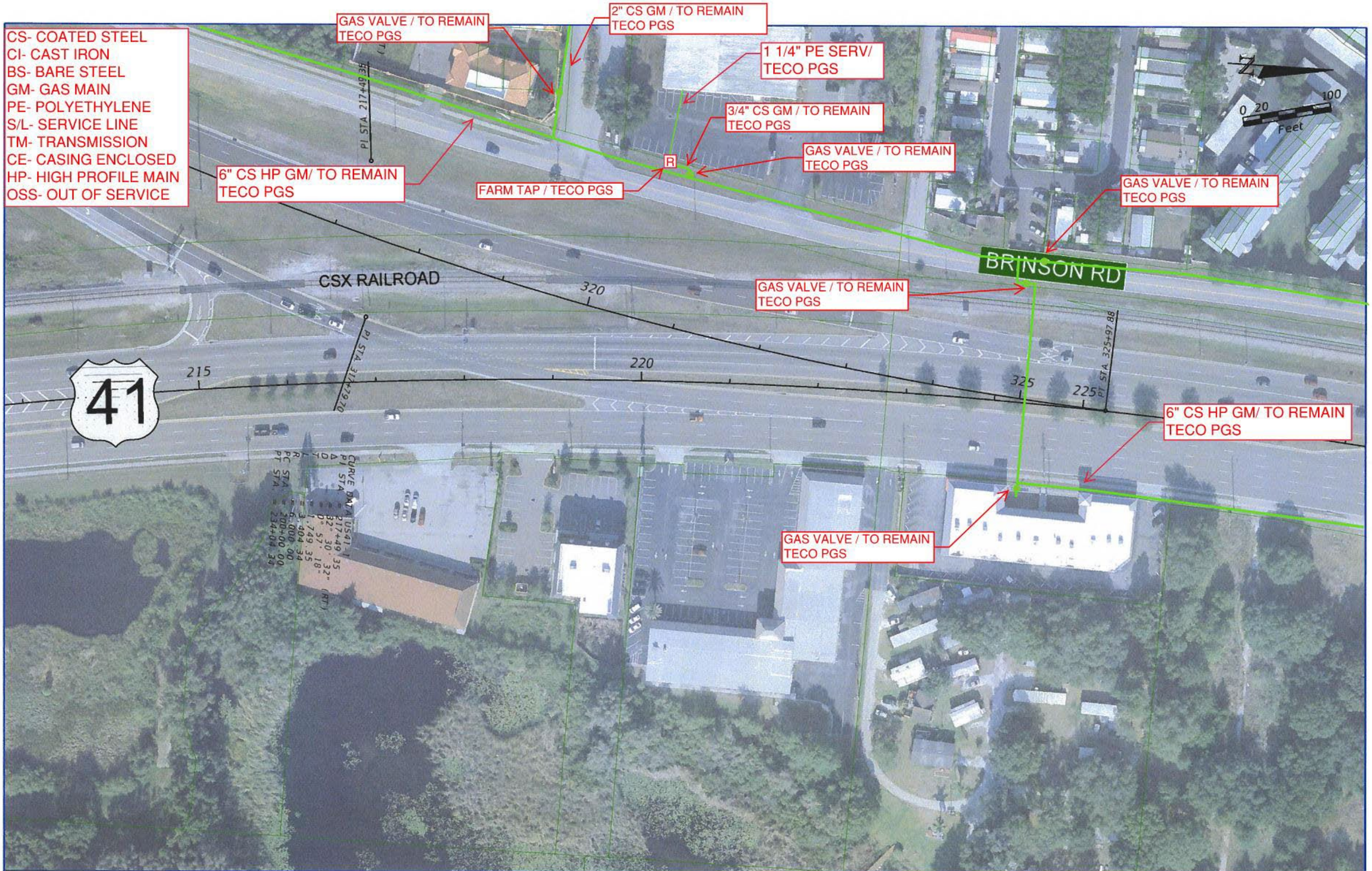

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US 41/SR 54 PD&E STUDY

SHEET NO. 7

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TECO PEOPLES GAS
AN EMERA COMPANY

RS&H
Reynolds, Smith and Hills, Inc.
715 N. Westshore Boulevard, Suite 500
Tampa, Florida 33607-3999
813-289-5550
Certificate of Authorization No. 5620
Architectural, Engineering, Planning and Environmental Services

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

SHEET NO. 8

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TECO PEOPLES GAS
AN EMERA COMPANY

RS&H
Reynolds, Smith and Hills, Inc.
7115 N. Westshore Boulevard, Suite 500
Tampa, Florida 33607-3999
813-289-5550
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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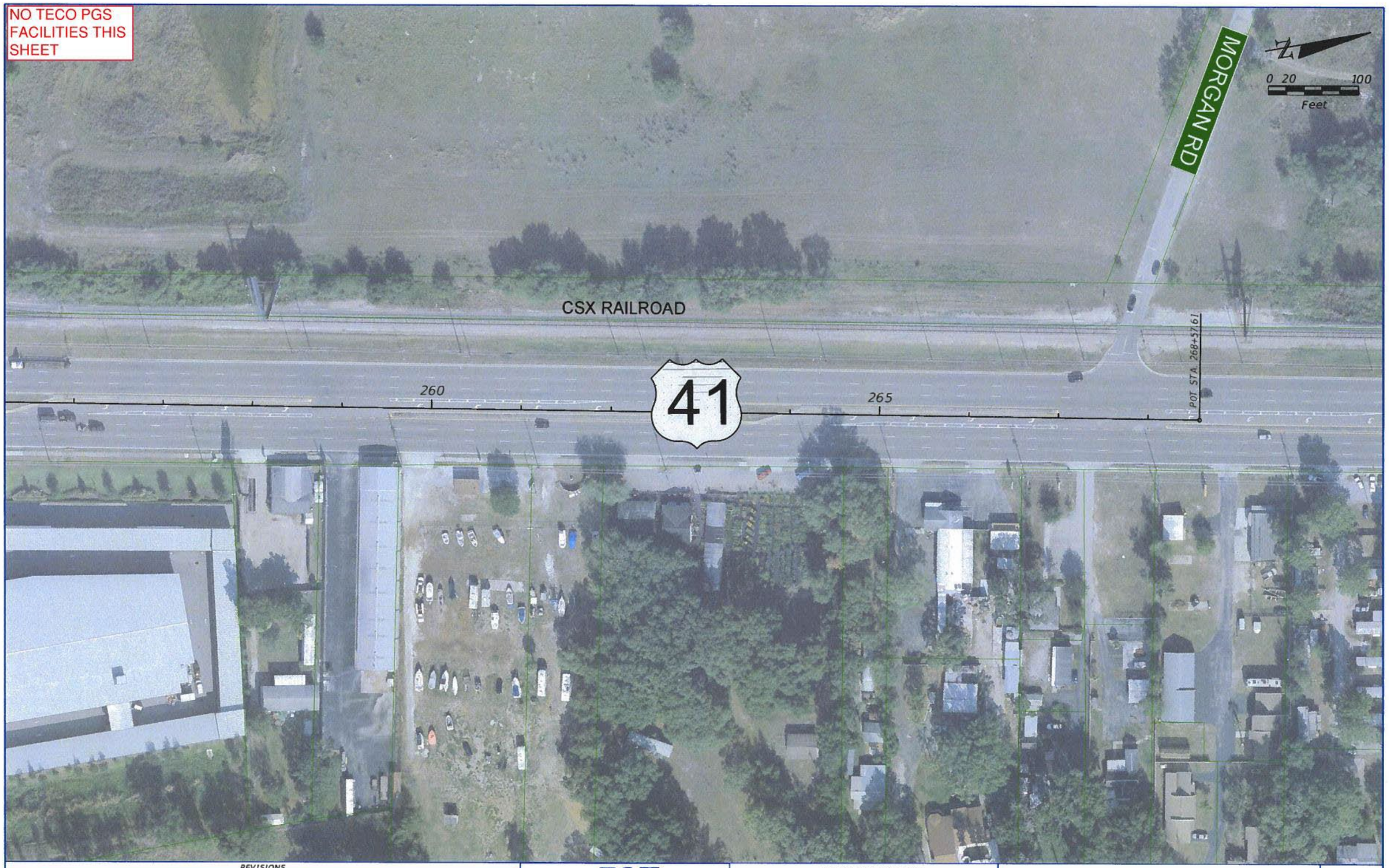

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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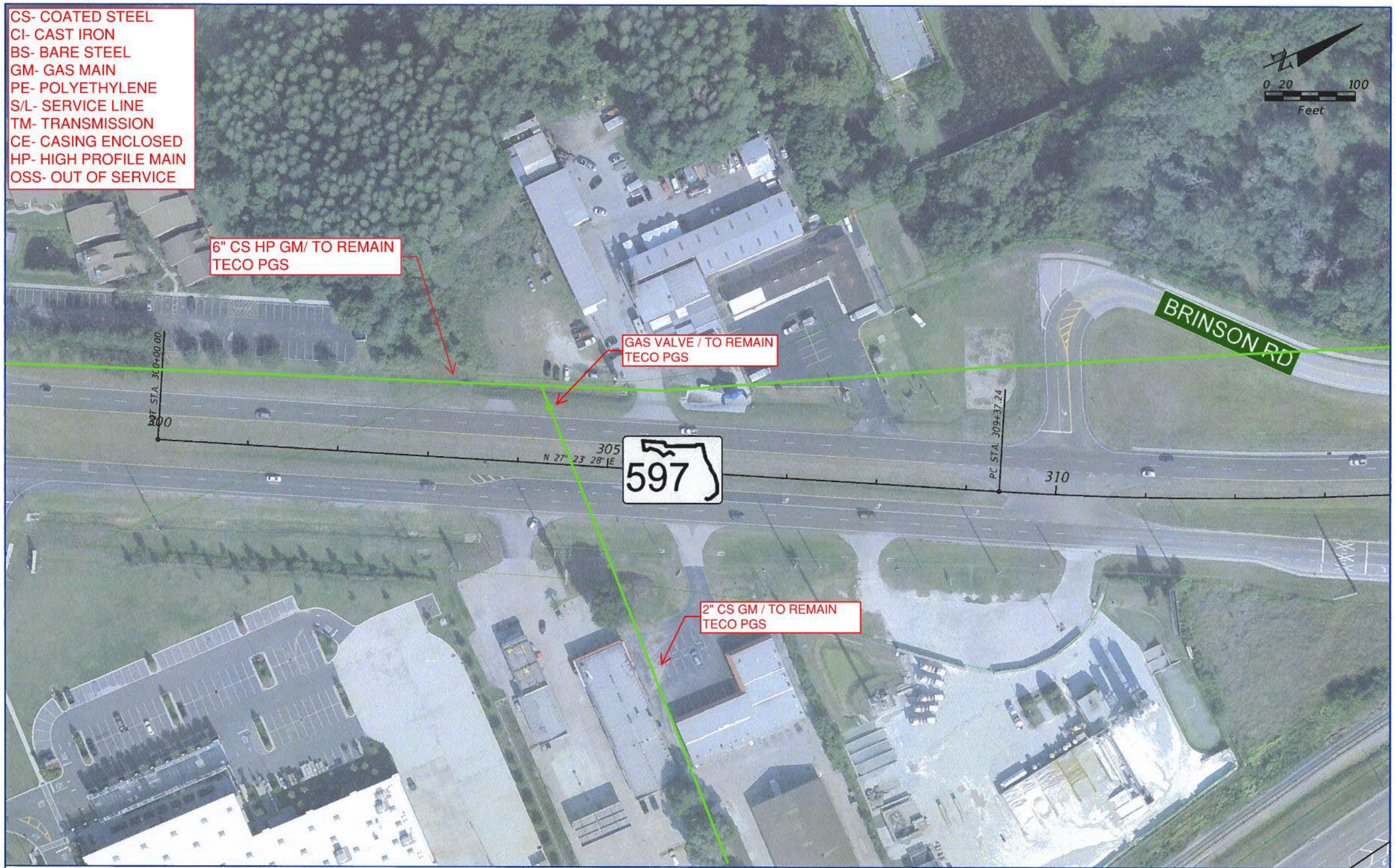

REVISIONS			
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Reynolds, Smith and Hills, Inc.
1715 N. Westshore Boulevard, Suite 500
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813-289-5550
Certificate of Authorization No. 5600
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

SHEET NO.
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	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

SHEET NO. 12

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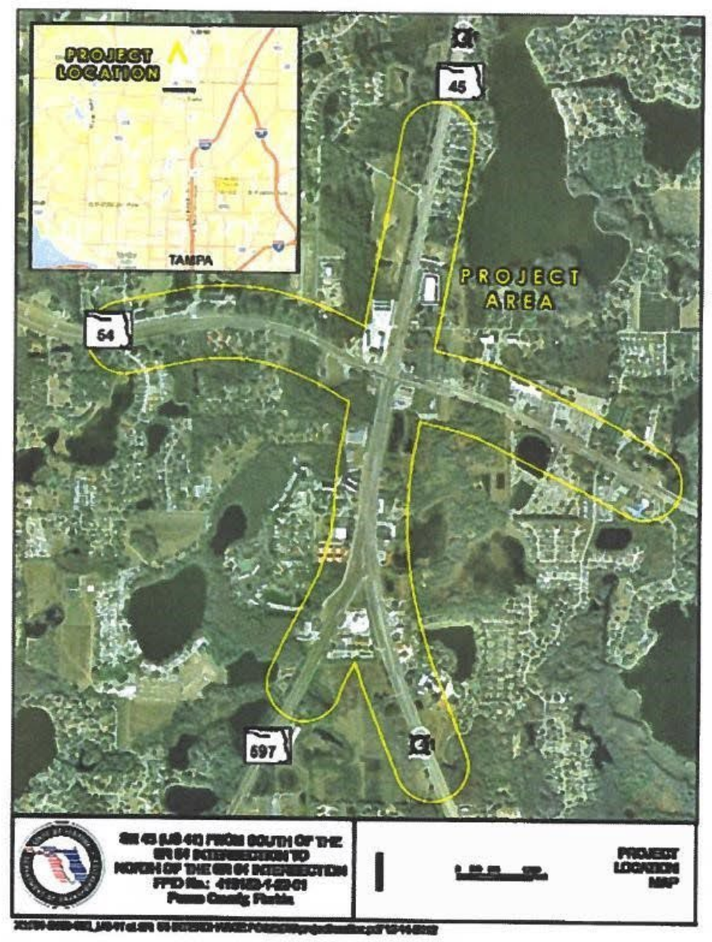
Financial Project ID: 419182-1-22-01
SR 45 (US41) from South of the SR 54 Intersection to North of the SR 54 Intersection

PD&E Study



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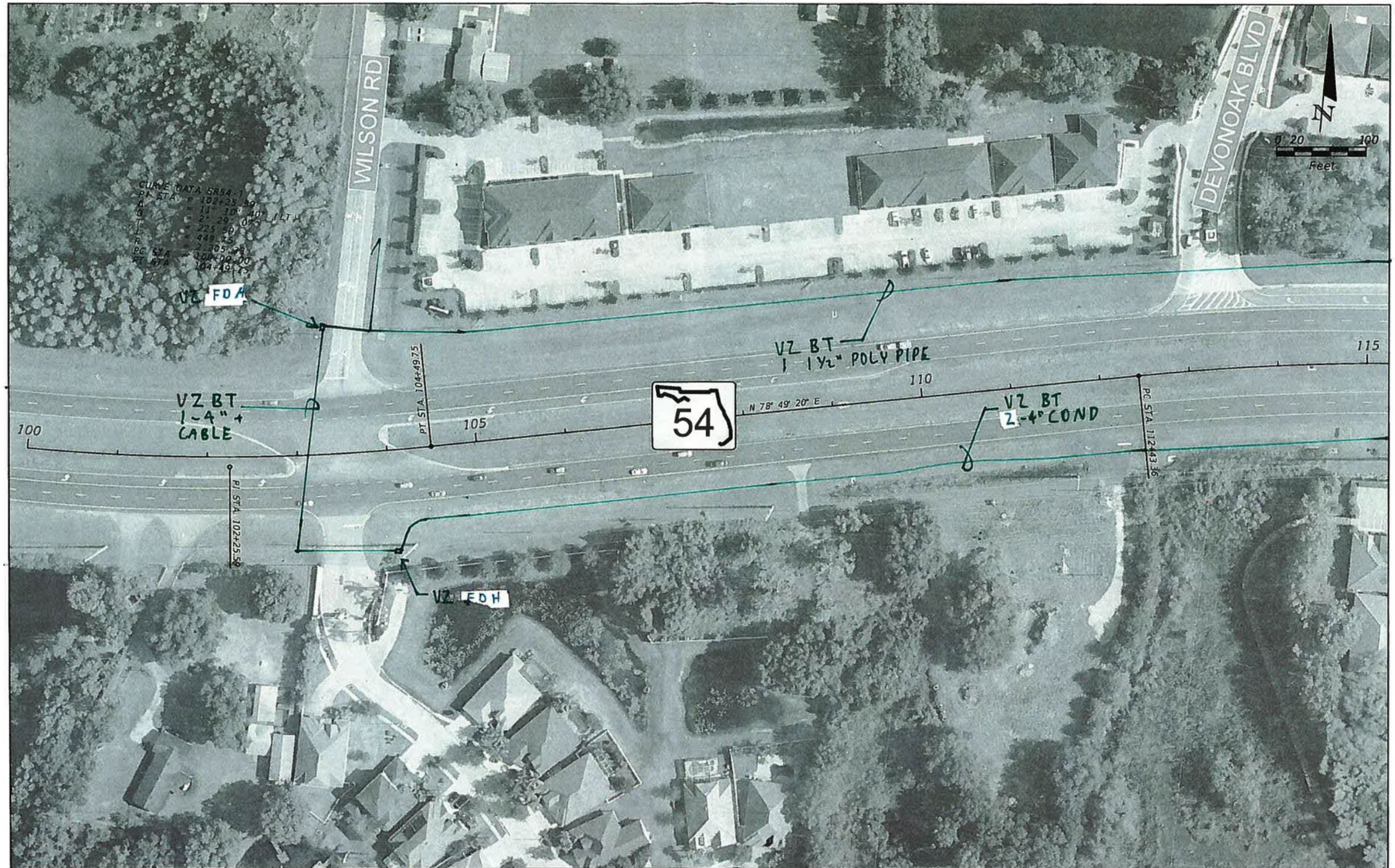

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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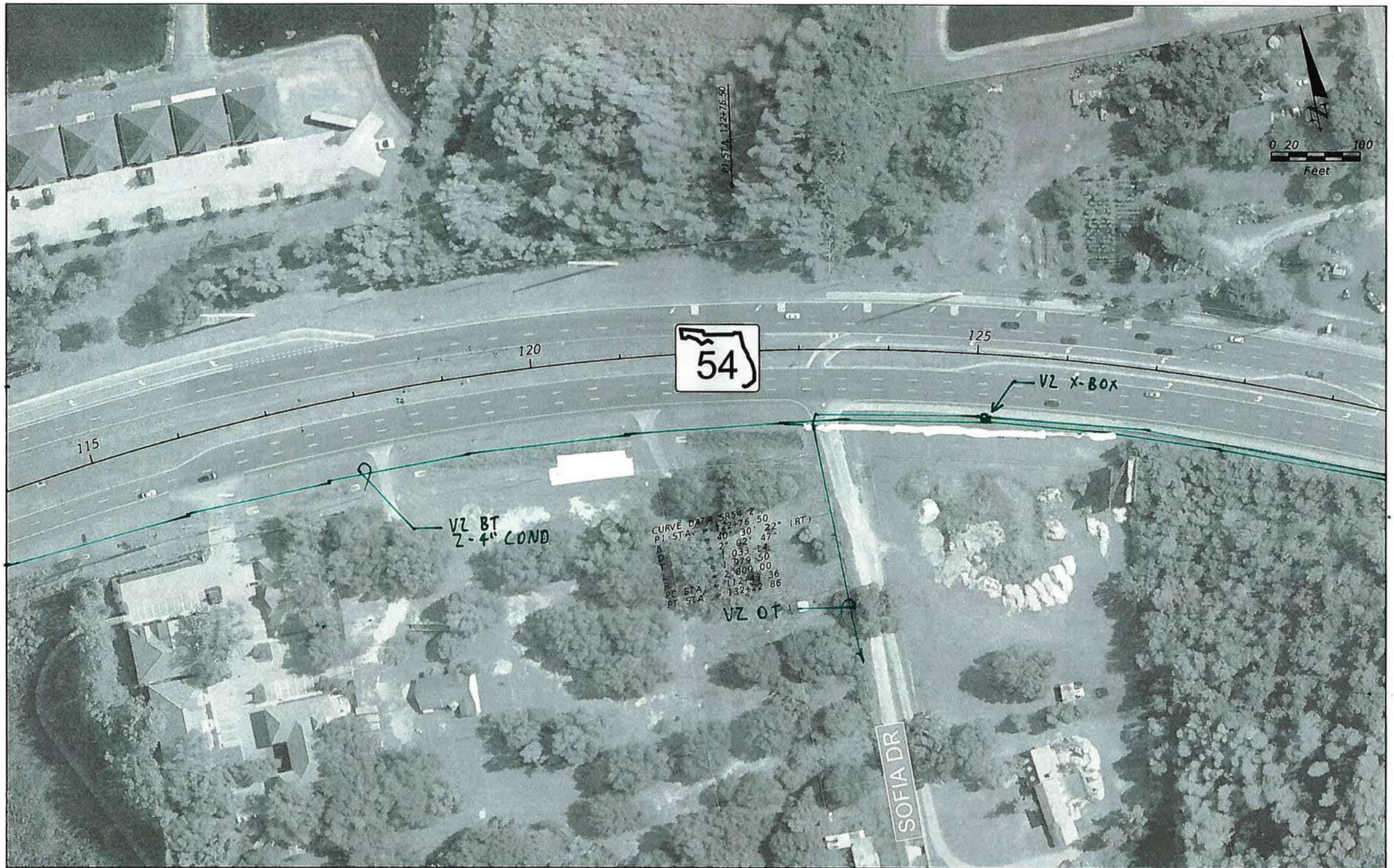

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RS&H
Reynolds, Smith and Hills, Inc.
675 N. Westshore Boulevard, Suite 500
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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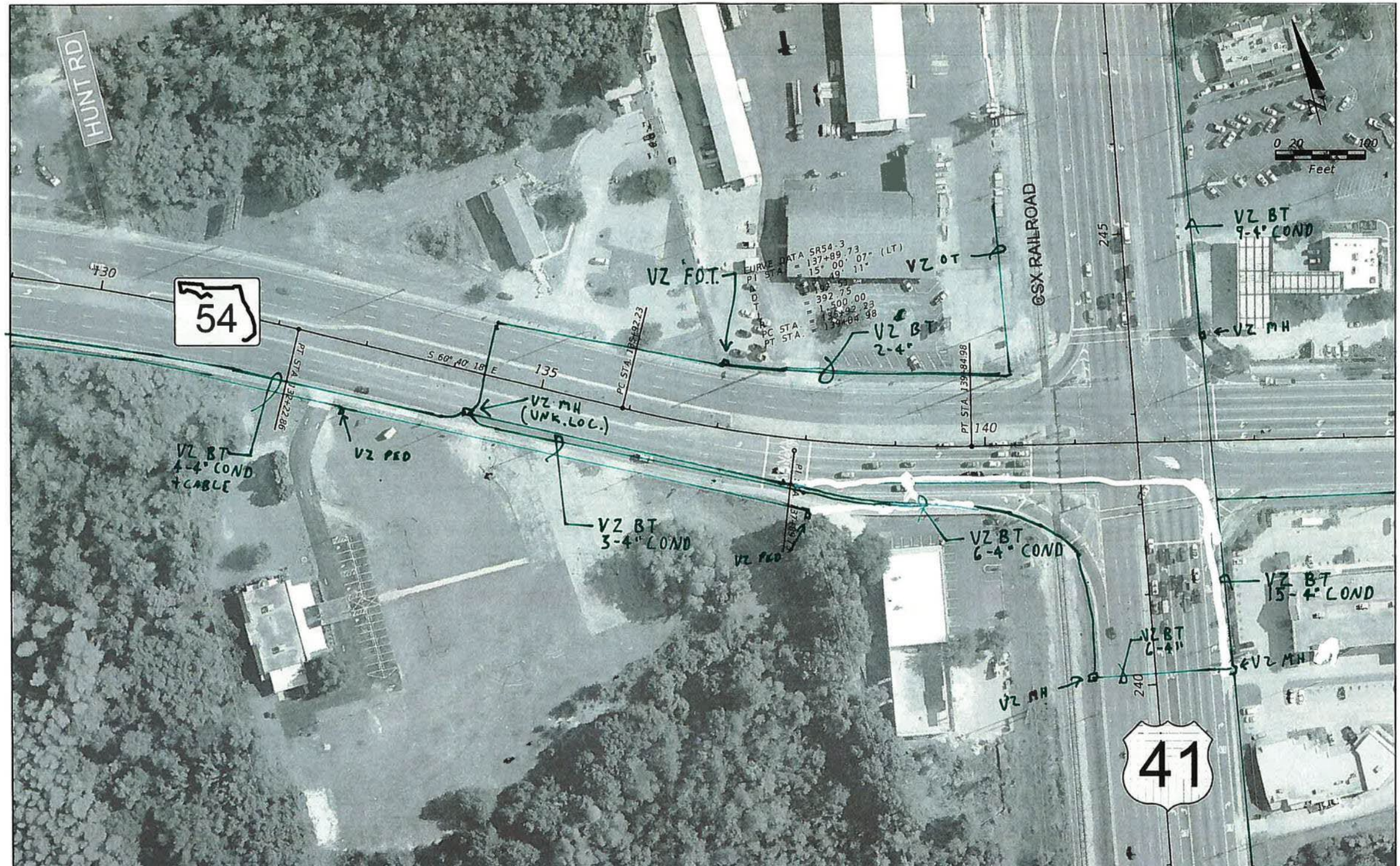

REVISIONS			
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Reynolds, Smith and Hills, Inc.
615 N. Westshore Boulevard, Suite 500
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

SHEET NO. 3

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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US 41/SR 54 PD&E STUDY

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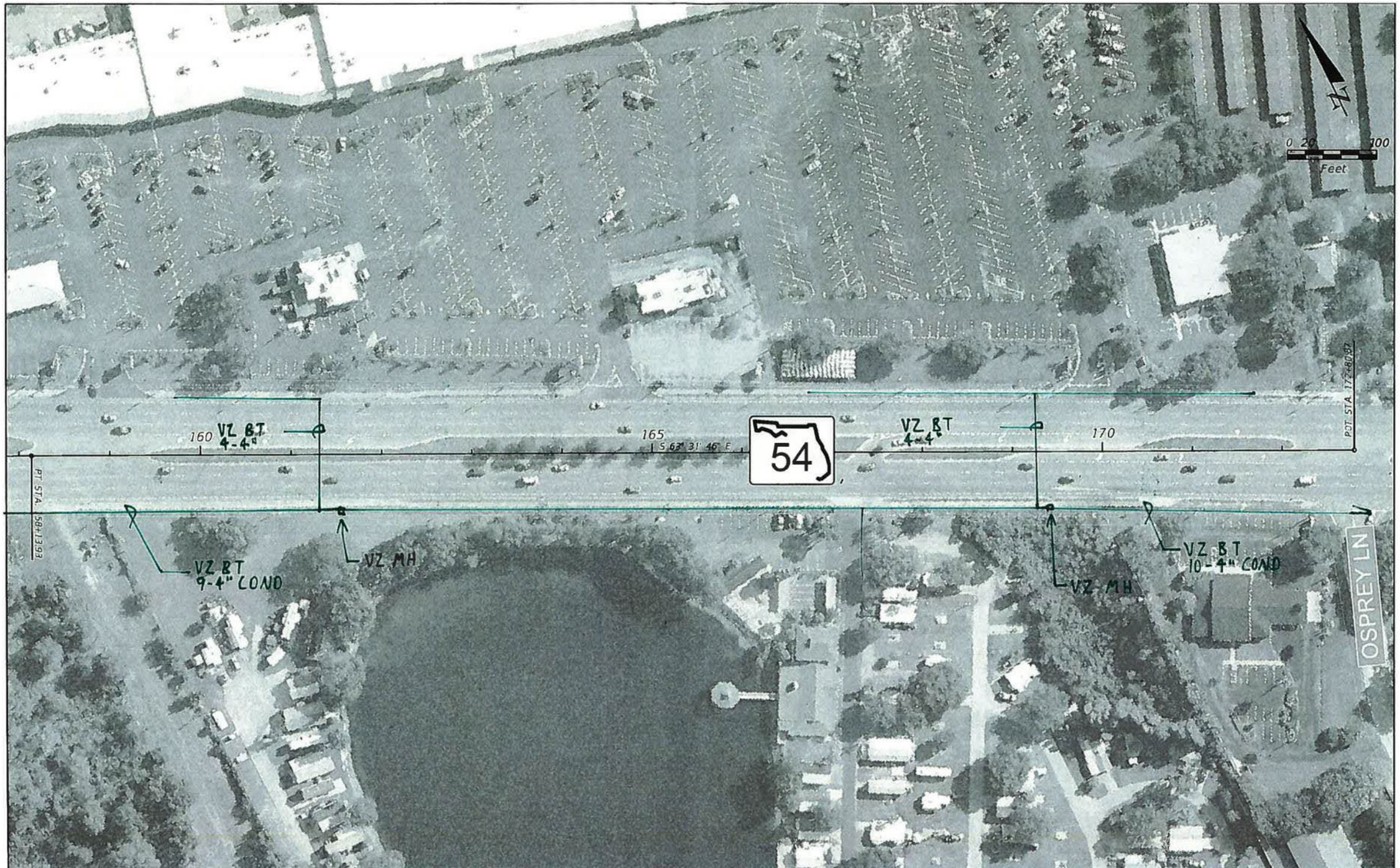

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DATE	DESCRIPTION	DATE	DESCRIPTION

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715 N. Westshore Boulevard, Suite 500
Tampa, Florida 33609-3996
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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US 41/SR 54 PD&E STUDY

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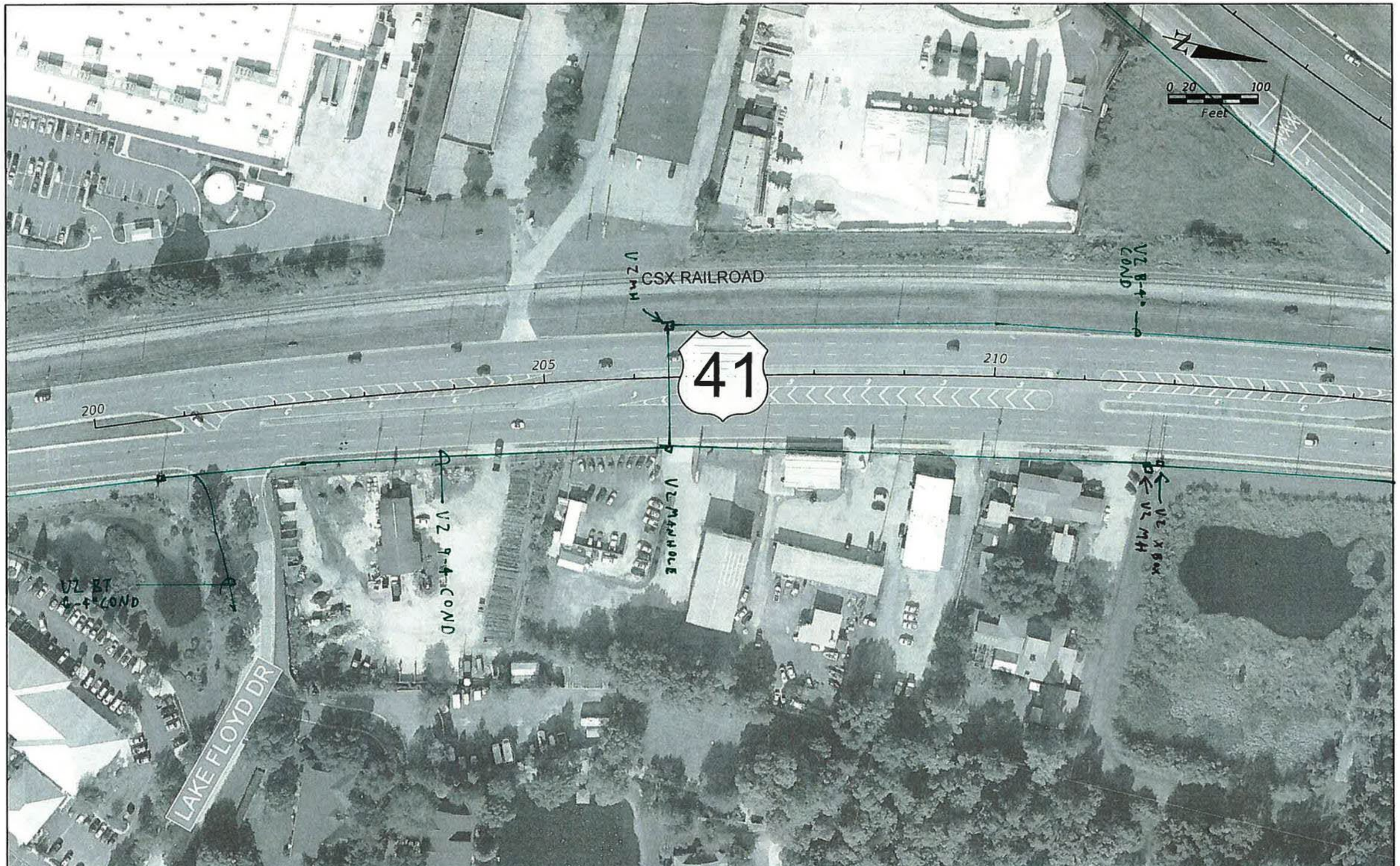

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RS&H
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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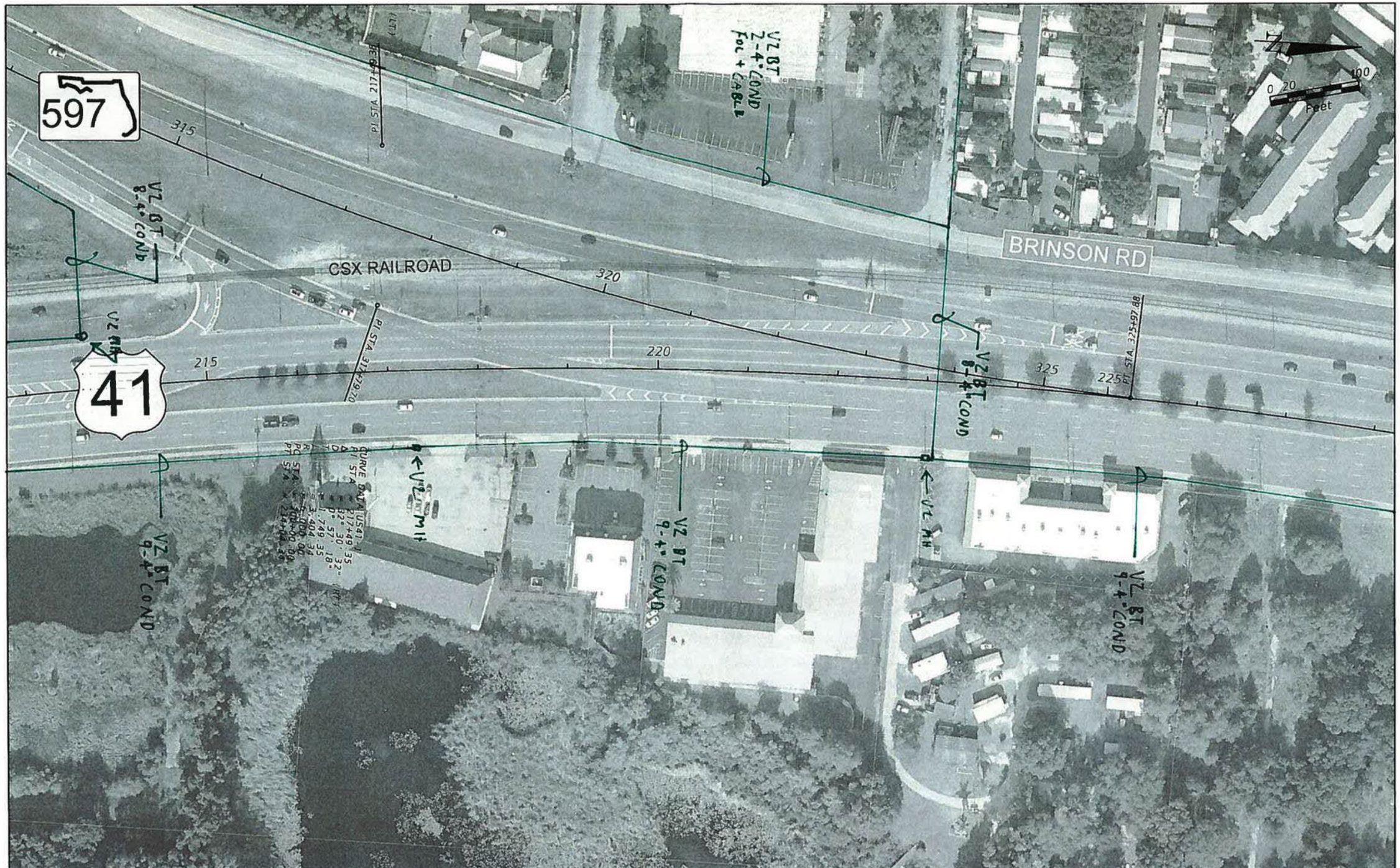

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RS&H
Reynolds, Smith and Hills, Inc.
315 N. Westshore Boulevard, Suite 800
Tampa, Florida 33609-3996
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

SHEET NO. 7

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915 N. Westshore Boulevard, Suite 500
Tampa, Florida 33607-3996
813-289-5550
Certificate of Authorization No. 5600
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

SHEET NO. 8

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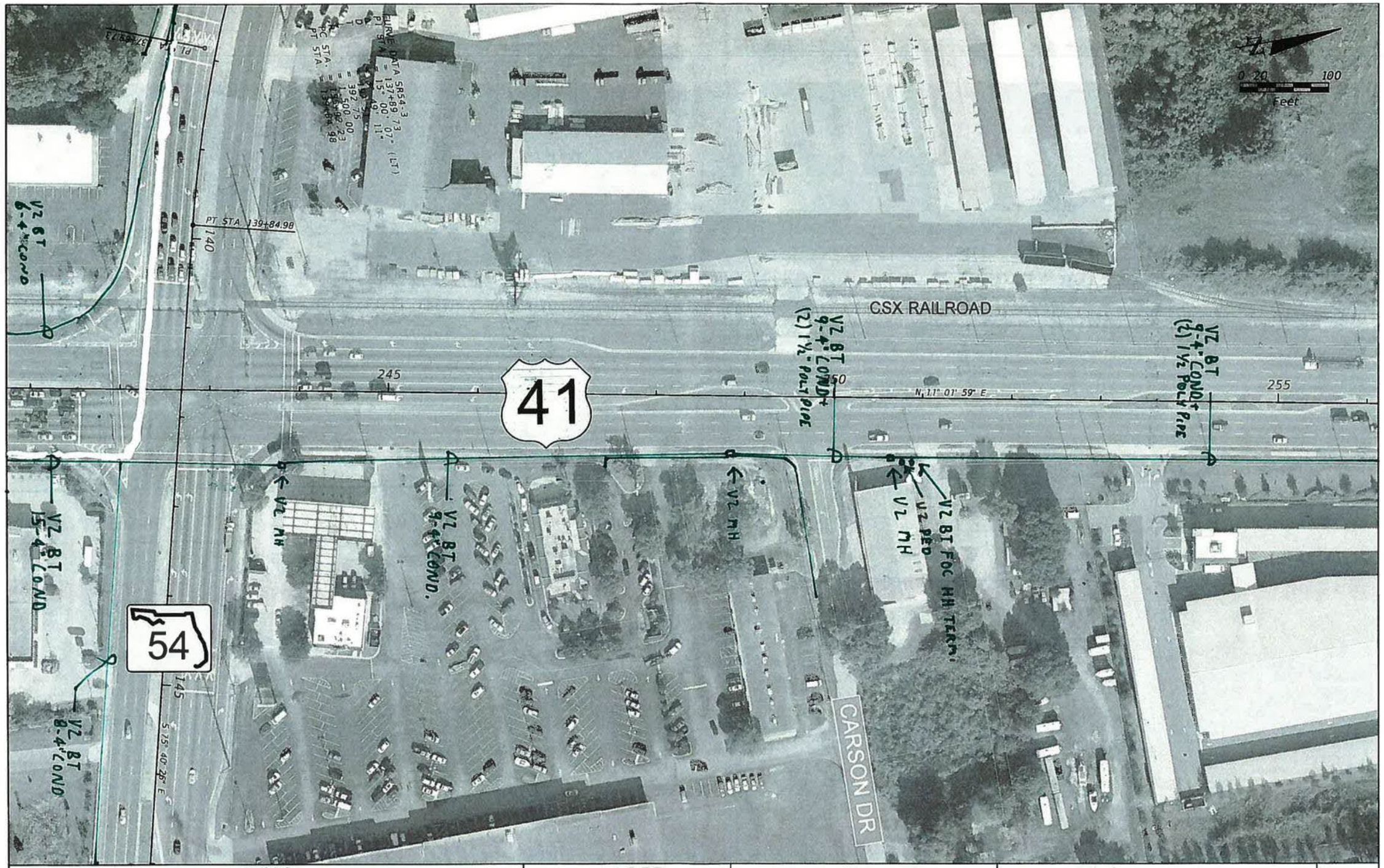

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DATE	DESCRIPTION	DATE	DESCRIPTION

RS&H
Reynolds, Smith and Hills, Inc.
715 N. Westshore Boulevard, Suite 500
Tampa, Florida 33607-3999
813-289-5330
Certificate of Authorization No. 5820
Architectural, Engineering, Planning and Environmental Services

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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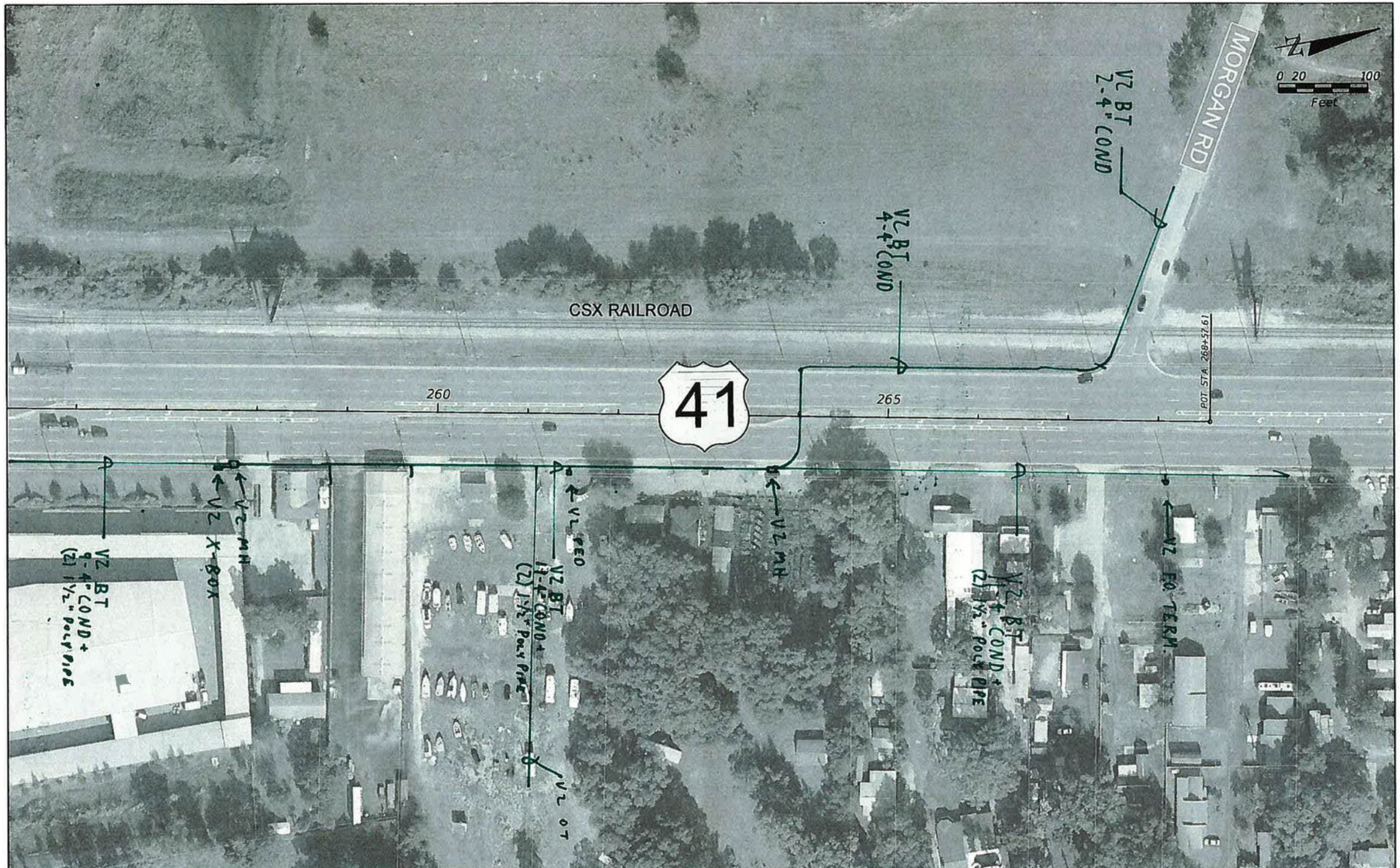

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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17-5 N. Westshore Boulevard, Suite 500
Tampa, Florida 33607-3999
813-289-5330
Certificate of Authorization No. 5620
Architecture, Engineering, Planning and Environmental Services

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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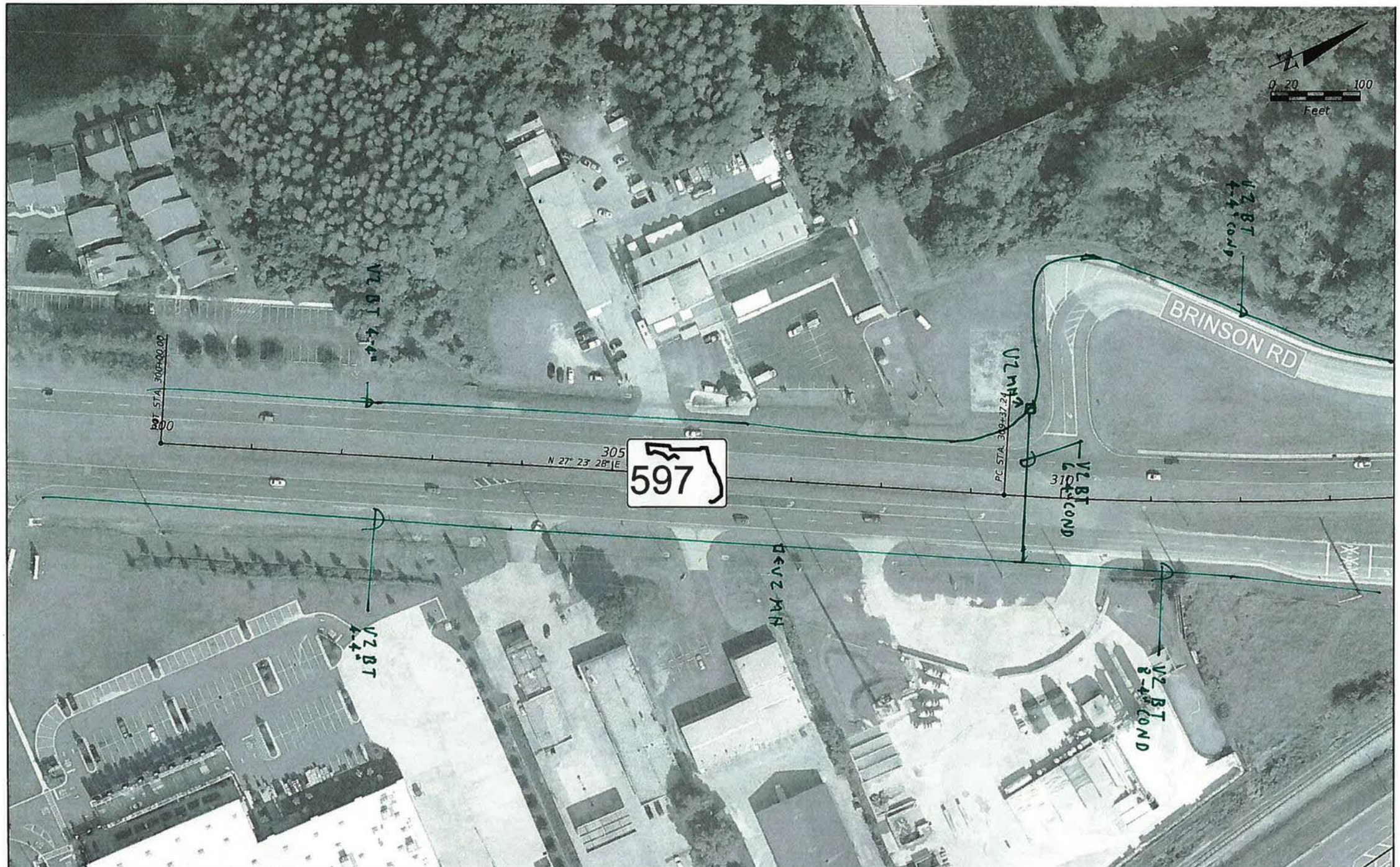

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

RS&H
Reynolds, Smith and Hills, Inc.
[illegible] Westshore Boulevard, Suite 500
Tampa, Florida 33607-3999
813-289-5550
Certificate of Authorization No. 5620
Architectural, Engineering, Planning and Environmental Services

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

SHEET NO. 12

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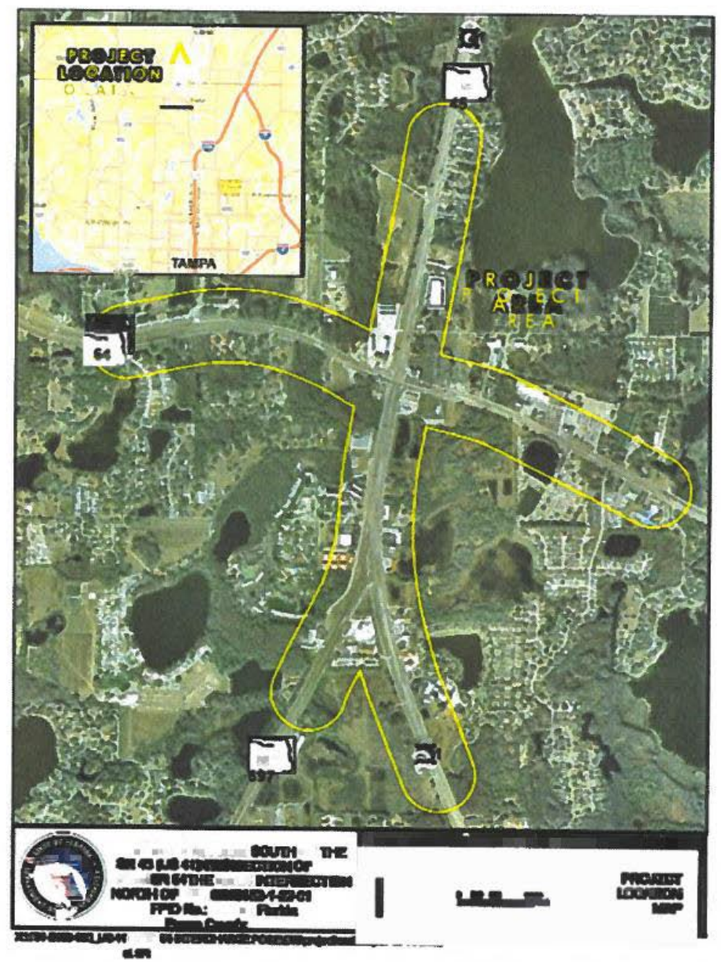
Financial Project ID: 419182-1-22-01
SR 45 (US41) from South of the SR 54 Intersection to North of the SR 54 Intersection

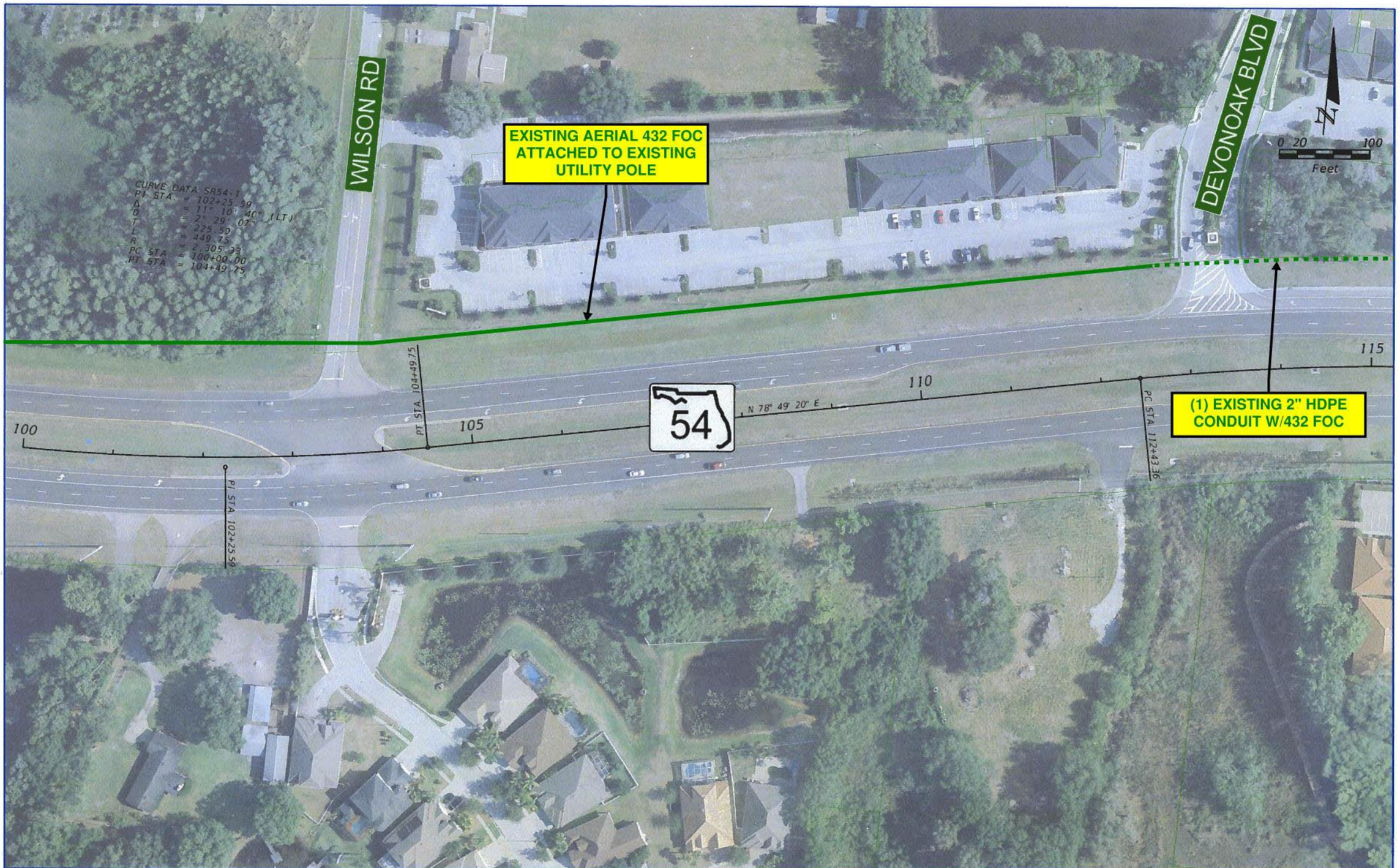
PD&E Study



MCI METRO ACCESS TRANSMISSION SERVICES

verizon

7701 E Telecom Pkwy
Temple Terrace, FL 33637
MCI AND VERIZON WIRELESS
RGB BY MICHAEL KROL
DATE: 04.08.2024
michael.krol@verizon.com
CELL: 813-410-4803



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	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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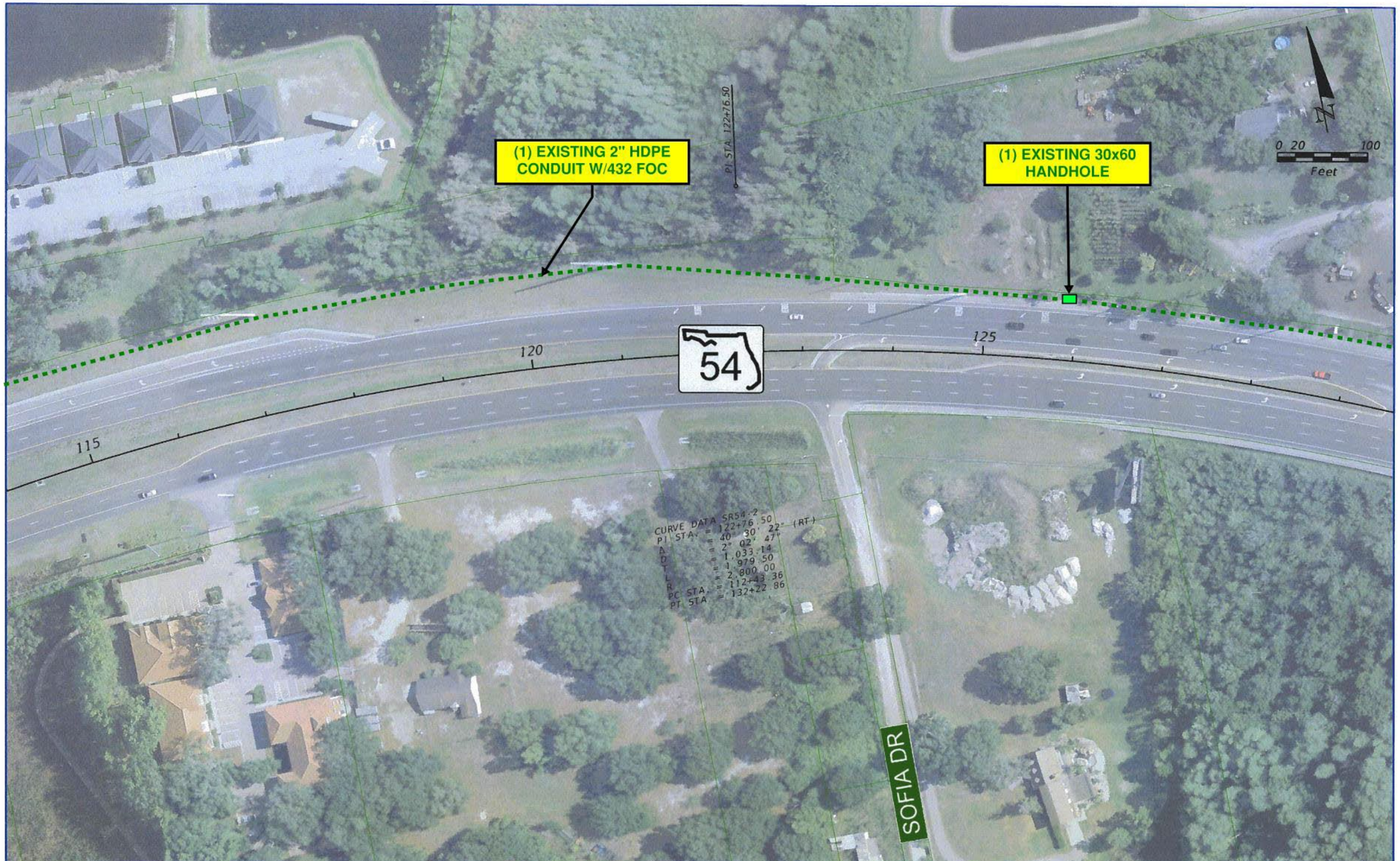

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	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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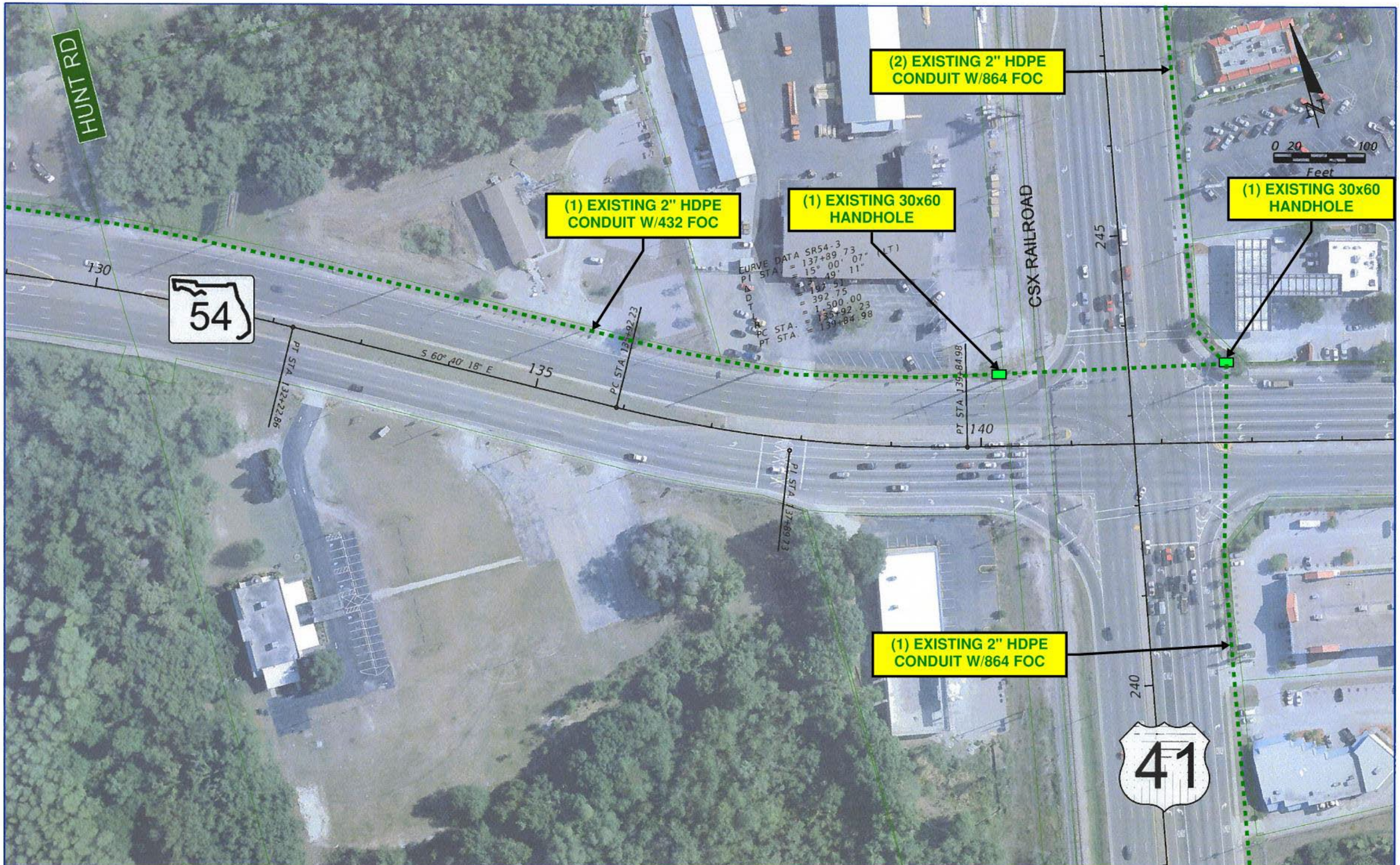

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US 41/SR 54 PD&E STUDY

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US 41/SR 54 PD&E STUDY

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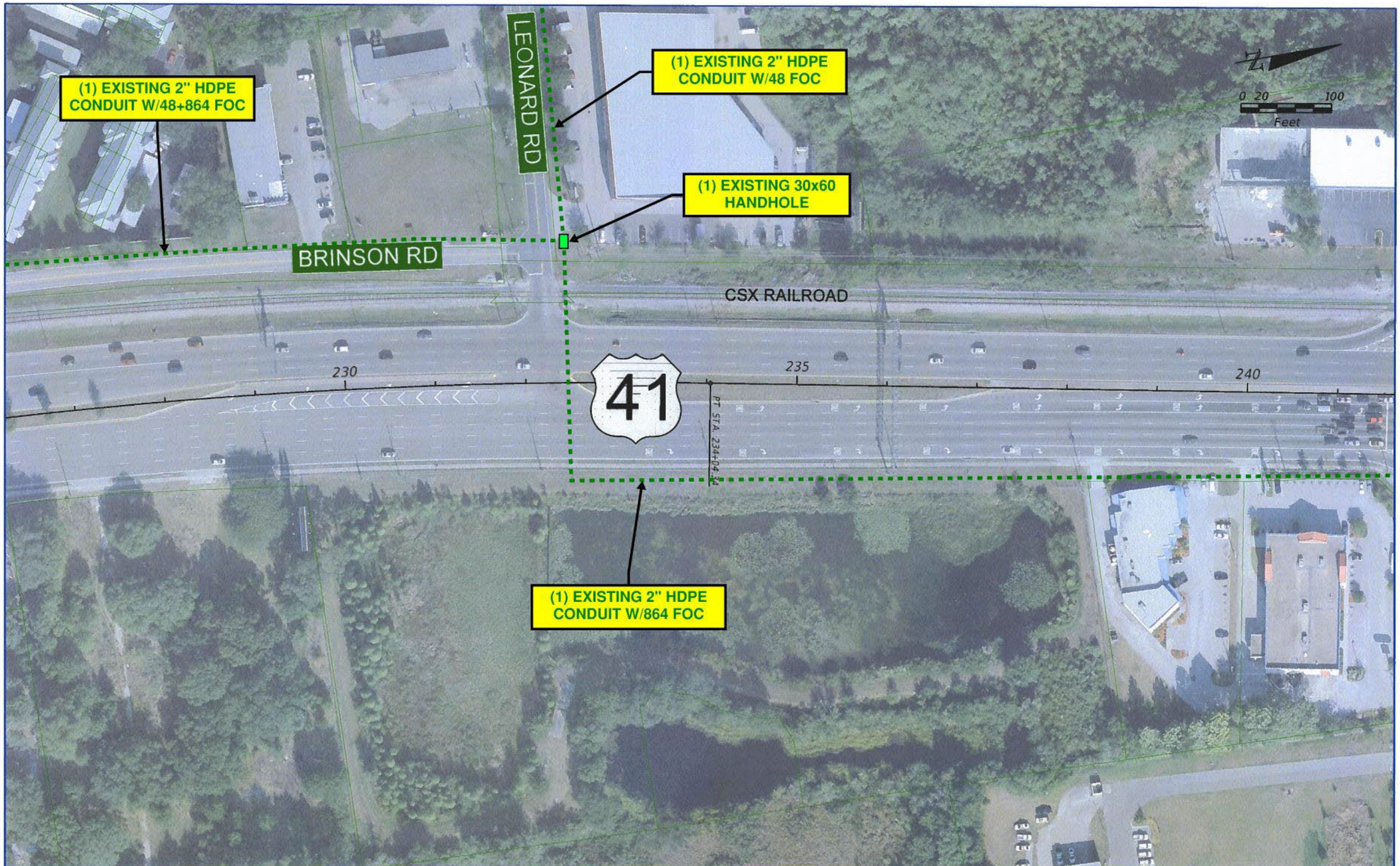

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US 41/SR 54 PD&E STUDY

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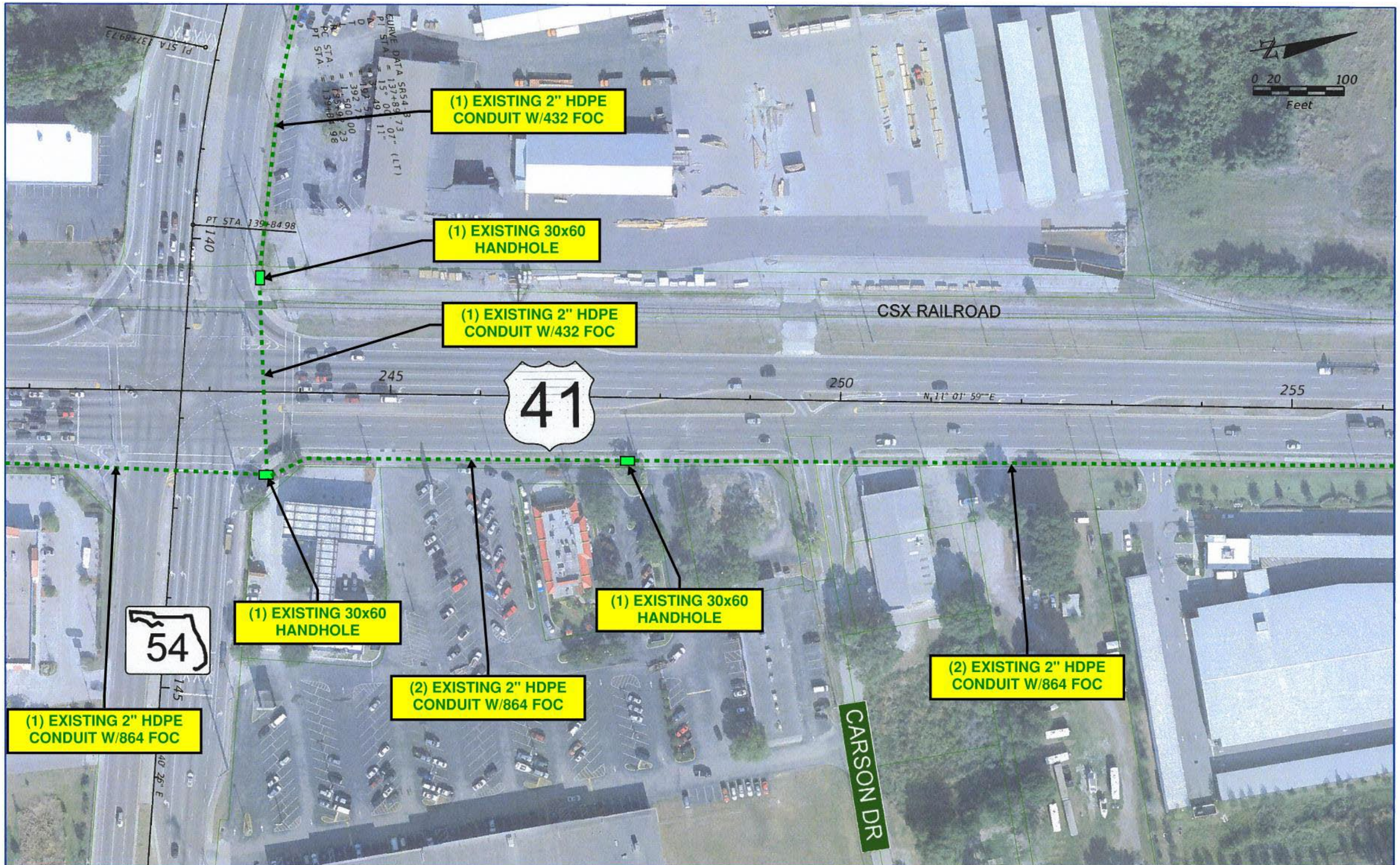

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US 41/SR 54 PD&E STUDY

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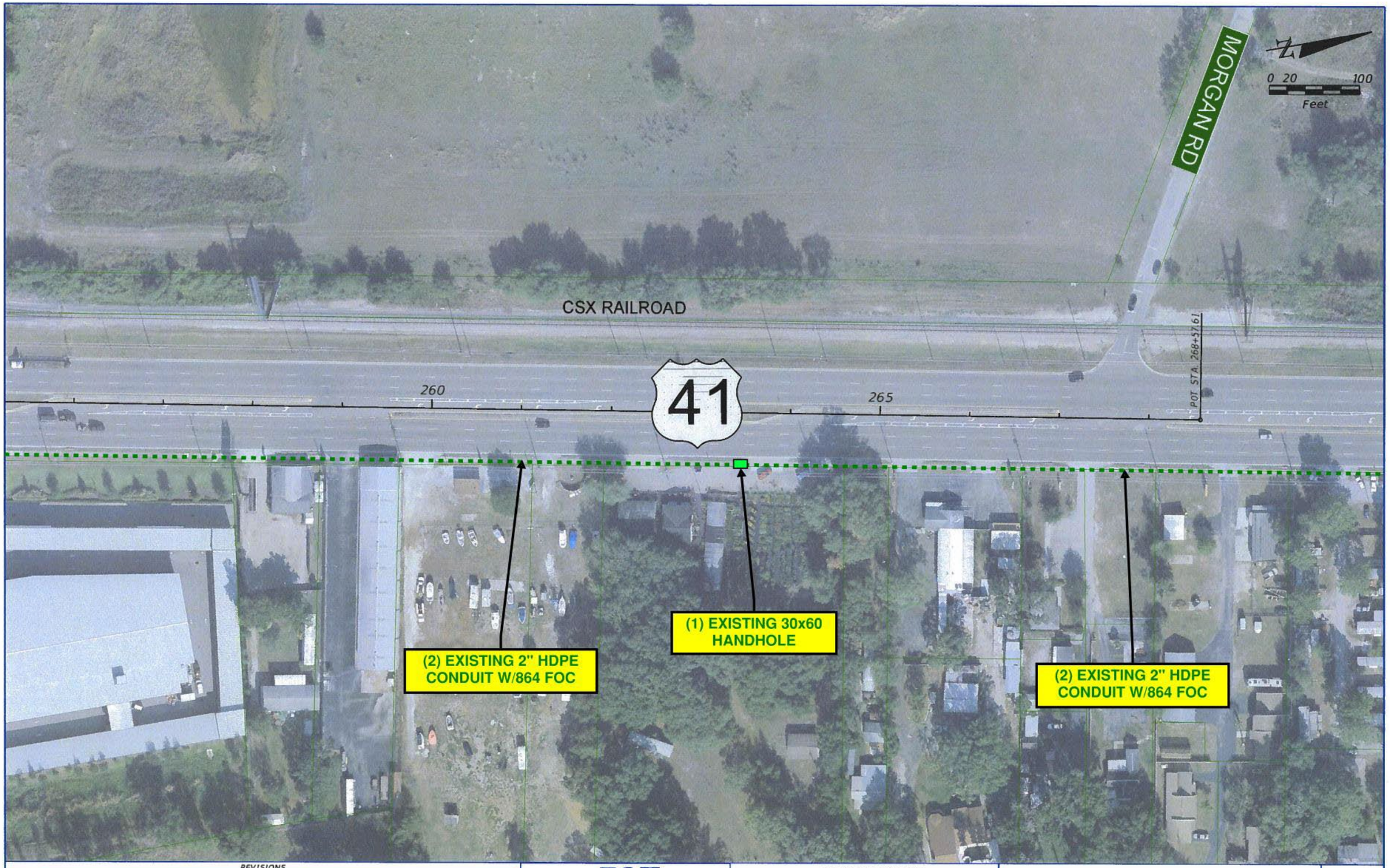

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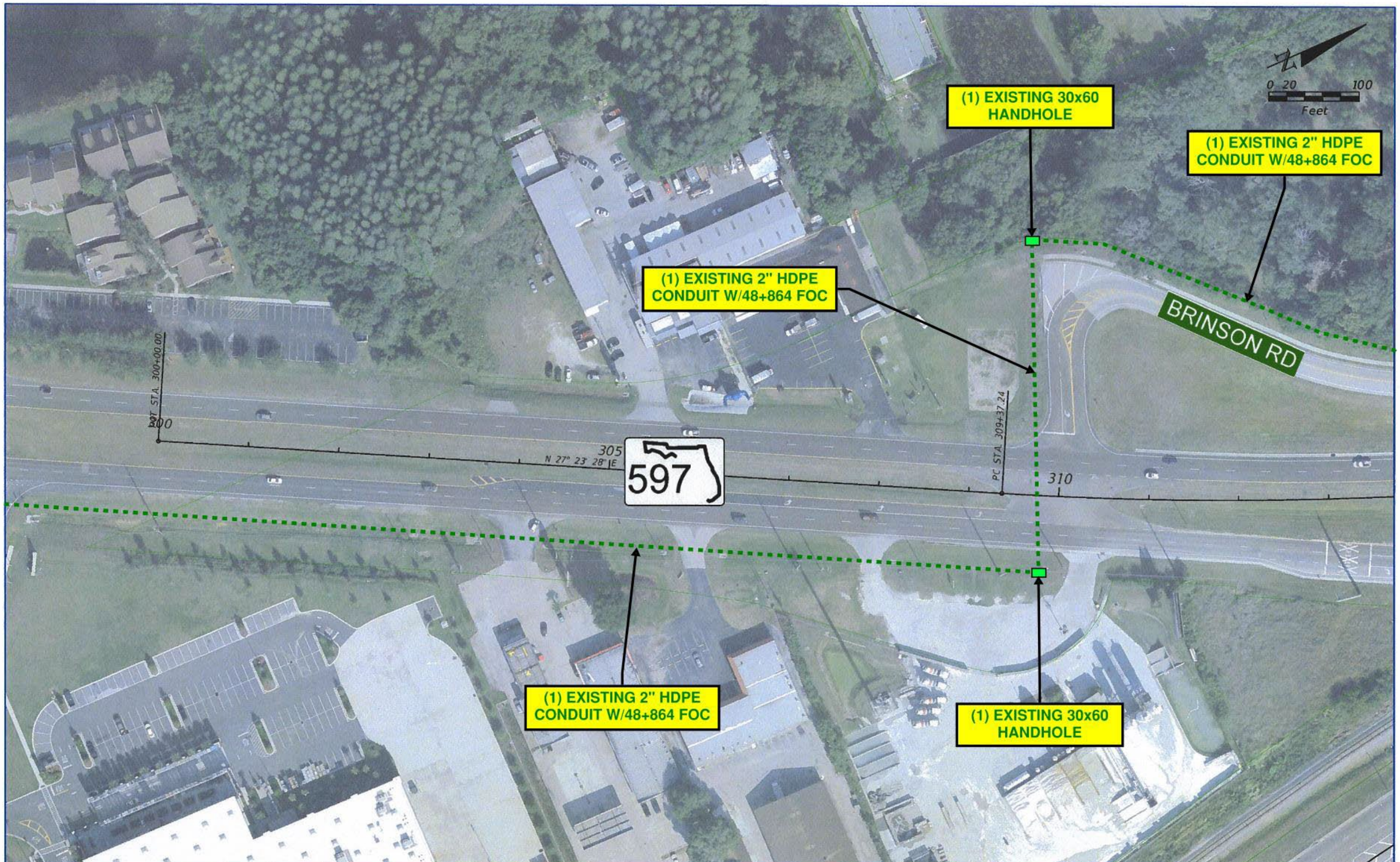

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US 41/SR 54 PD&E STUDY

SHEET NO. 11

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813-289-5550
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Architectural, Engineering, Planning and Environmental Services

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

SHEET NO. 12

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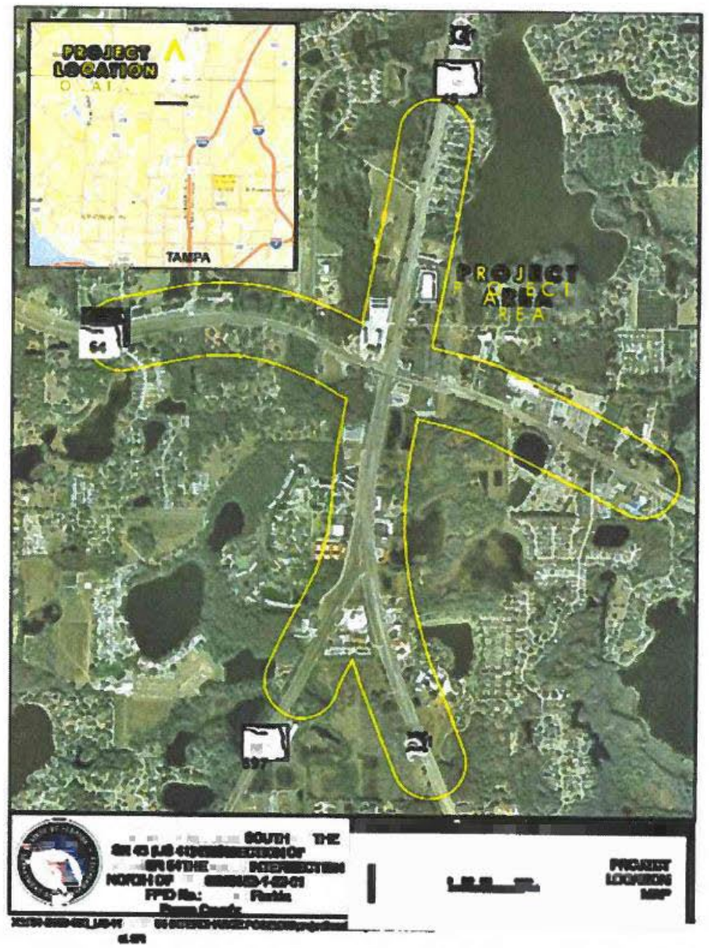
Financial Project ID: 419182-1-22-01
SR 45 (US41) from South of the SR 54 Intersection to North of the SR 54 Intersection

PD&E Study

Florida Governmental Utility Authority
Greenlines



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RICK LANGLASS, P.E.
P.E. LICENSE NUMBER 62498
RS&H, INC.
1715 N. WESTSHORE BOULEVARD, SUITE 600
TAMPA, FL 33607-3999

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 54	PASCO	419182-1-22-10

CONCEPT PLAN (7)
SR 54 - SPUI

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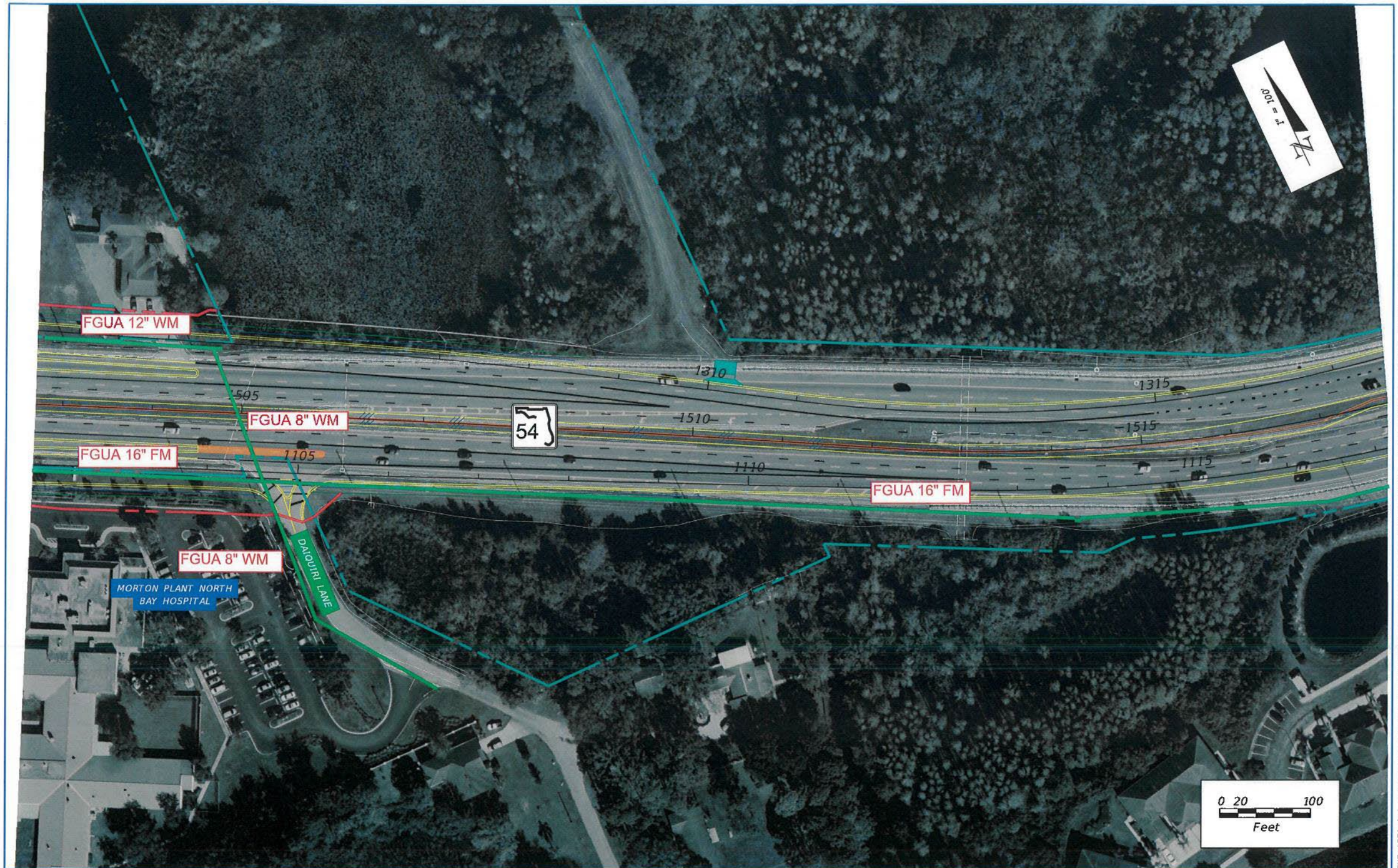

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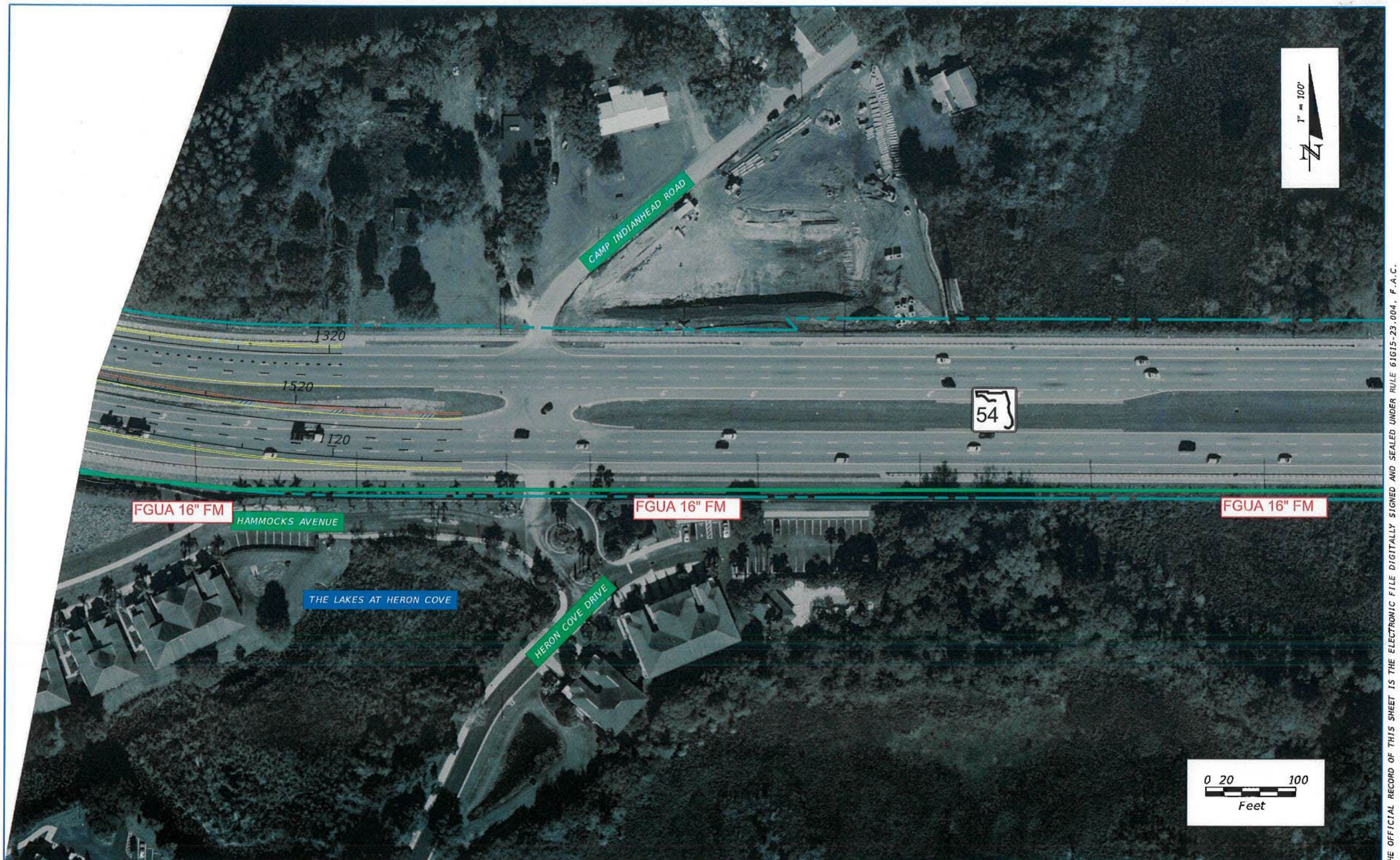
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 54	PASCO	419182-1-22-10

CONCEPT PLAN (8)
SR 54 - SPUI

SHEET NO.



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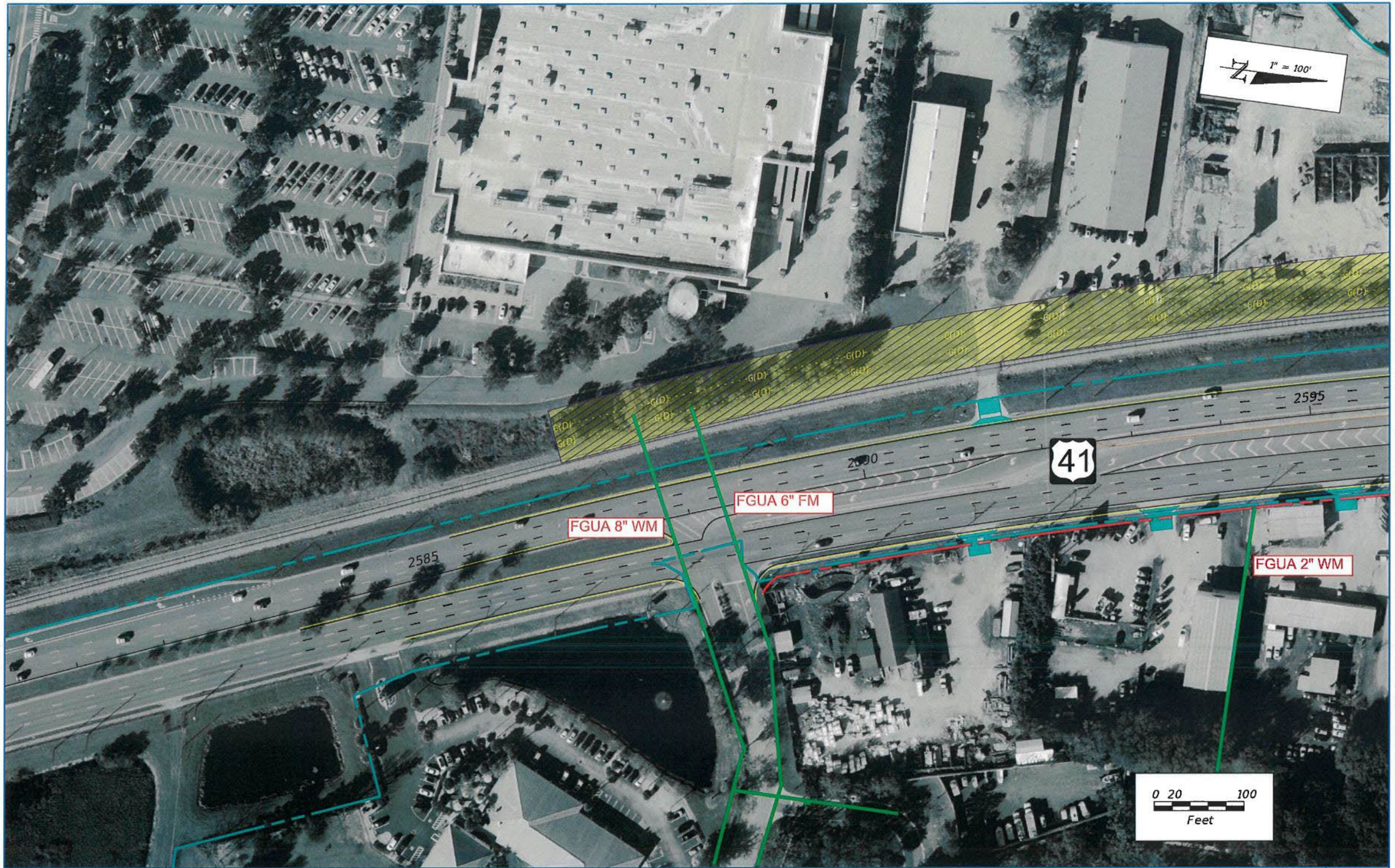
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 54	PASCO	419182-1-22-10

CONCEPT PLAN (9)
SR 54 - SPUI

SHEET NO.



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DEPARTMENT OF TRANSPORTATION

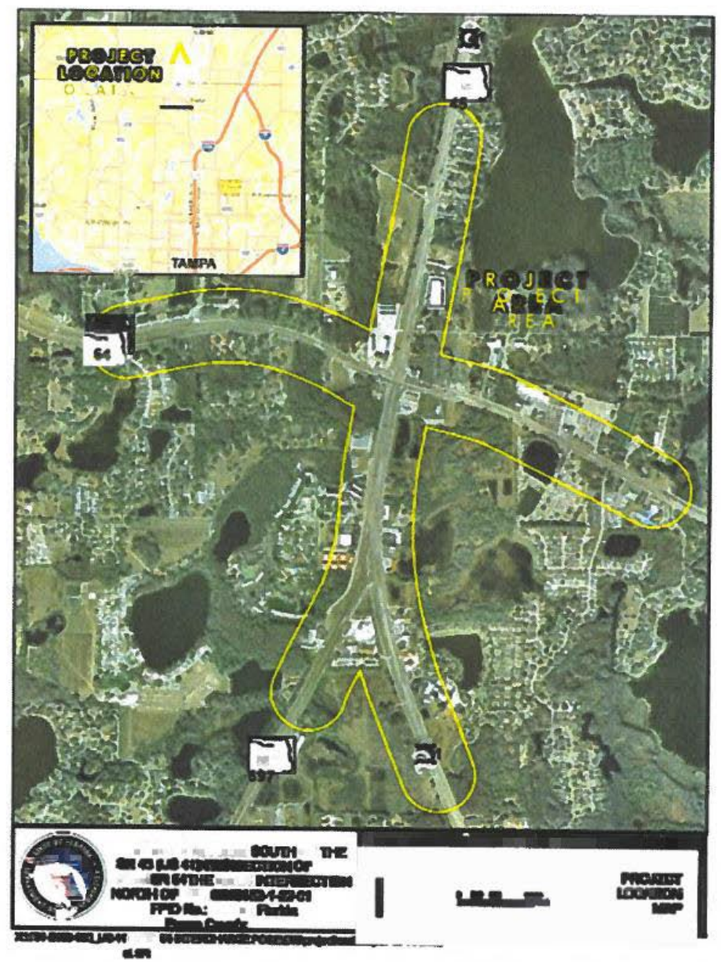
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
US 41	PASCO	419182-1-22-10

CONCEPT PLAN (10)
US 41 - SPUI

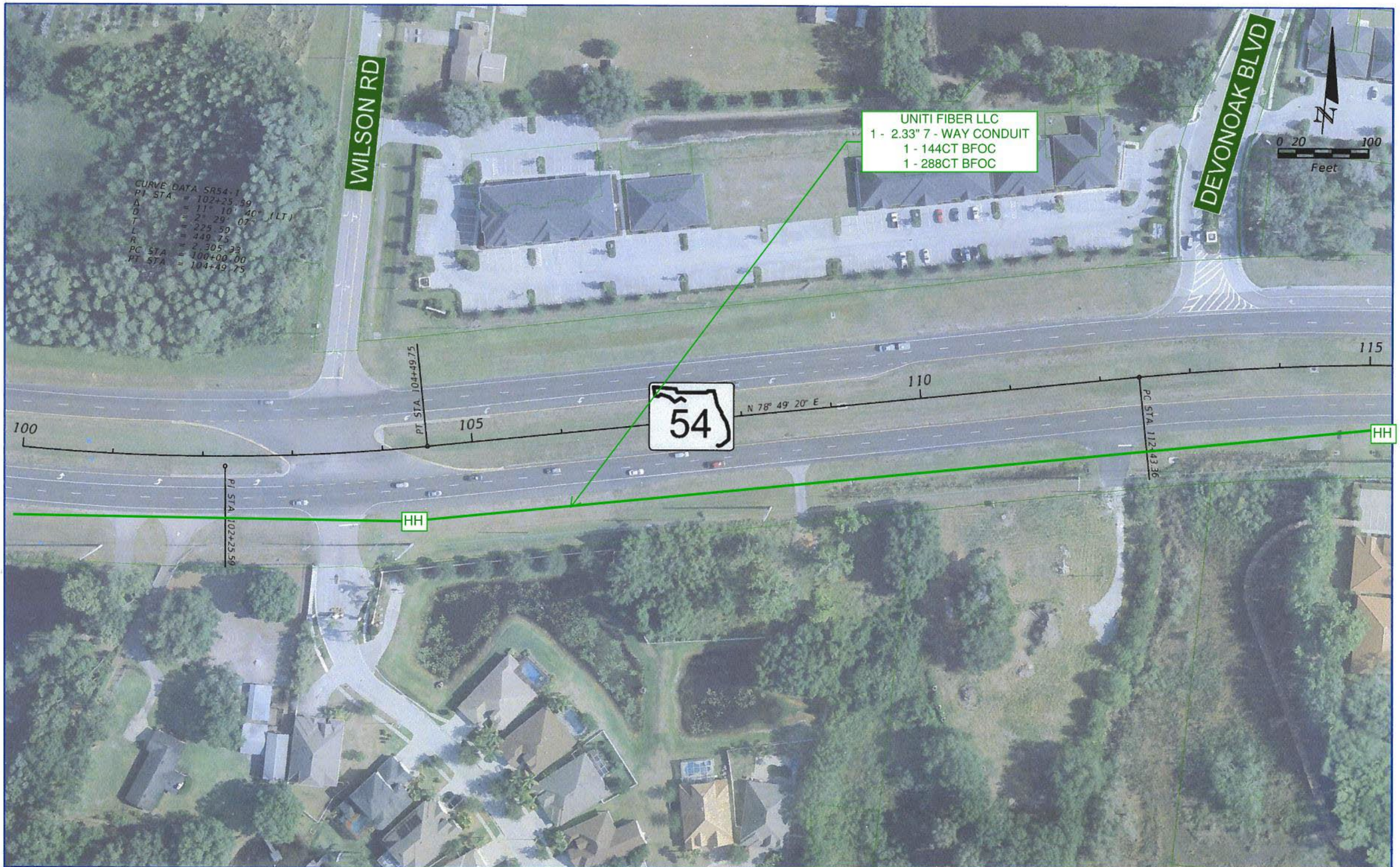
SHEET NO.

Financial Project ID: 419182-1-22-01
SR 45 (US41) from South of the SR 54 Intersection to North of the SR 54 Intersection

PD&E Study



Uniti Fiber/Southern Light Conduits &
BFOC RGB Markup File 4/5/2024
Construction Manager: Zach Oliver
Phone: 727-337-1381
Email: zach.oliver@uniti.com
OSP Engineer: Tim Pryor
Phone: 727-293-0697
Email: tim.pryor@uniti.com



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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

SHEET NO. 1

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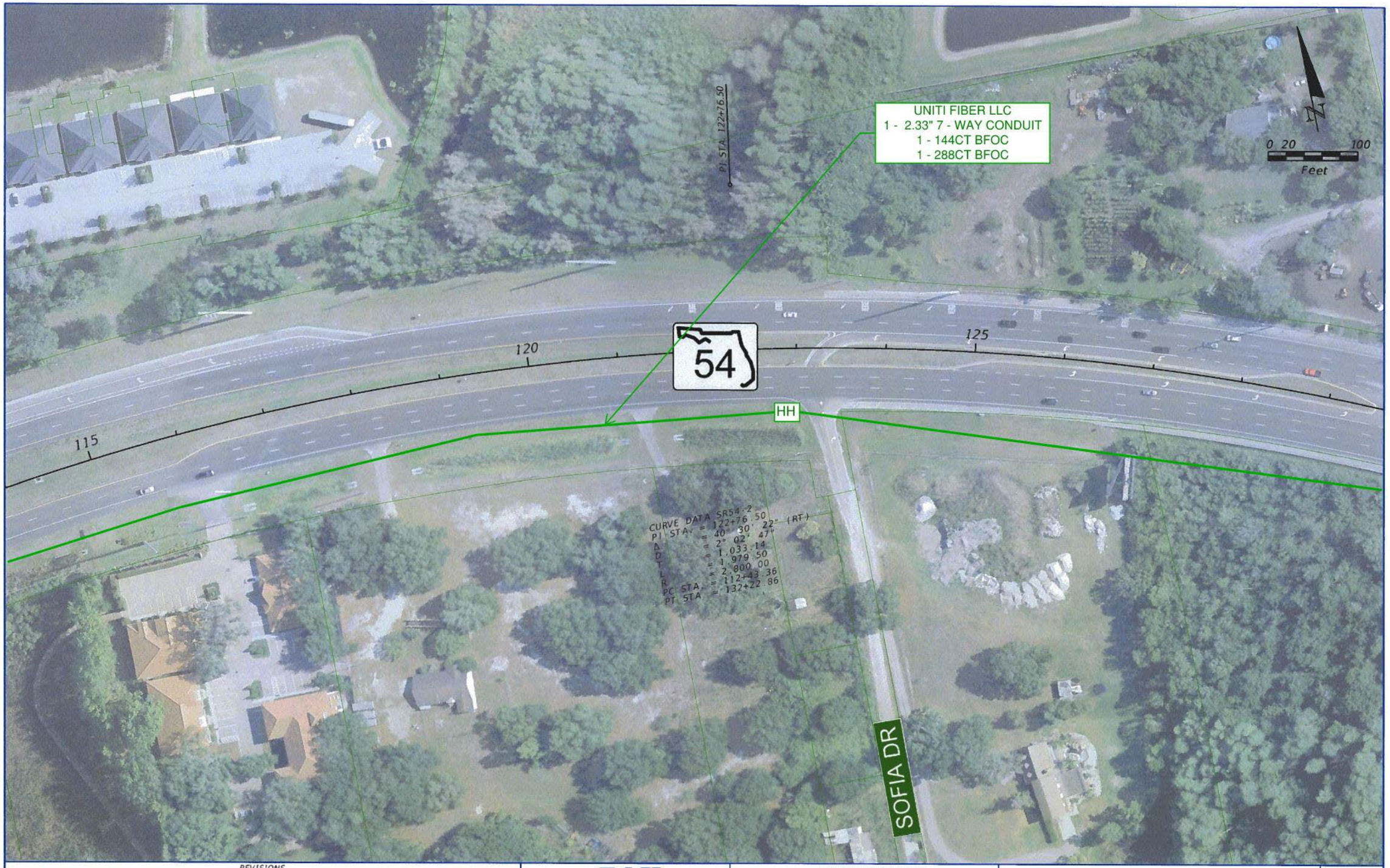

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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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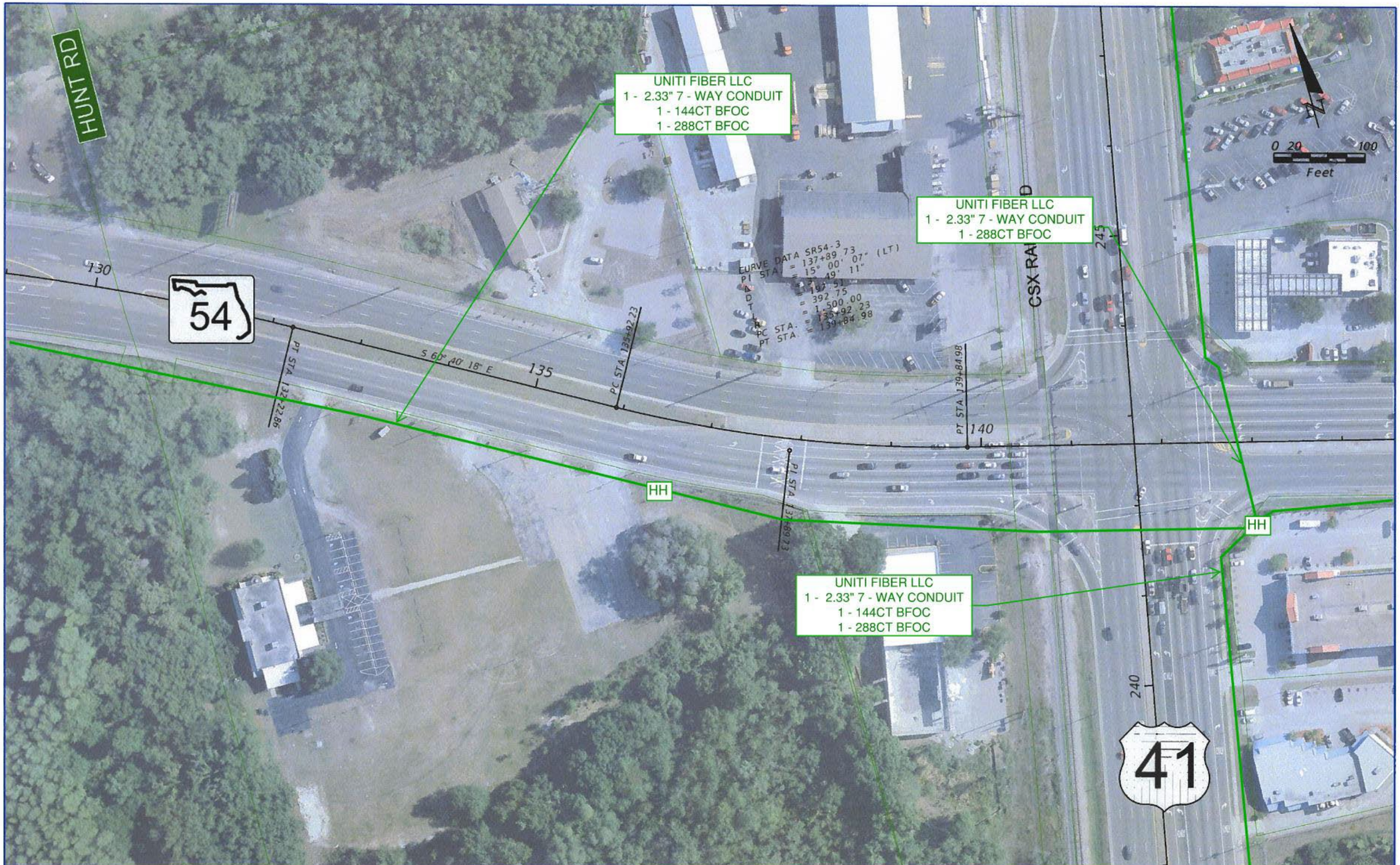

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US 41/SR 54 PD&E STUDY

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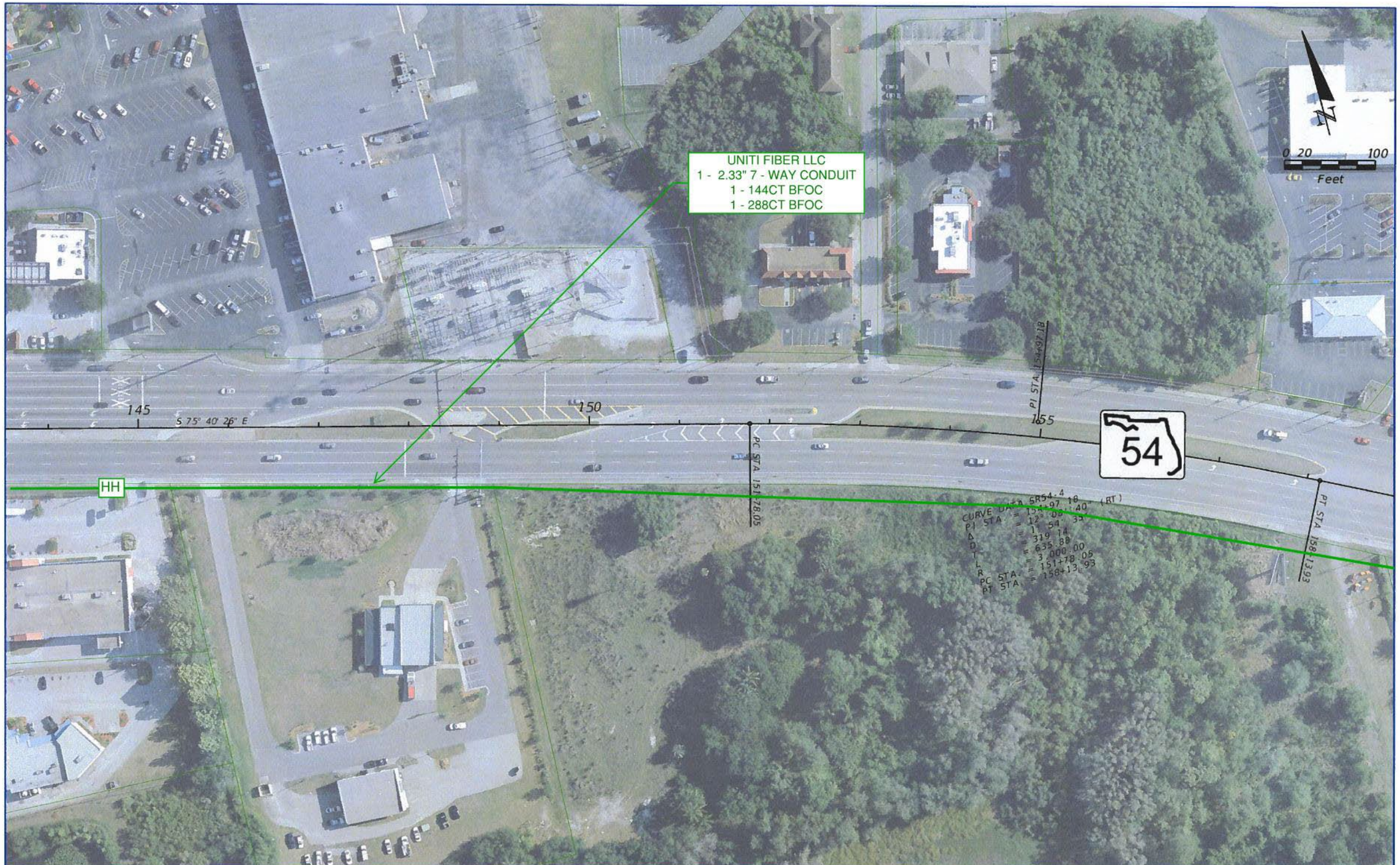

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US 41/SR 54 PD&E STUDY

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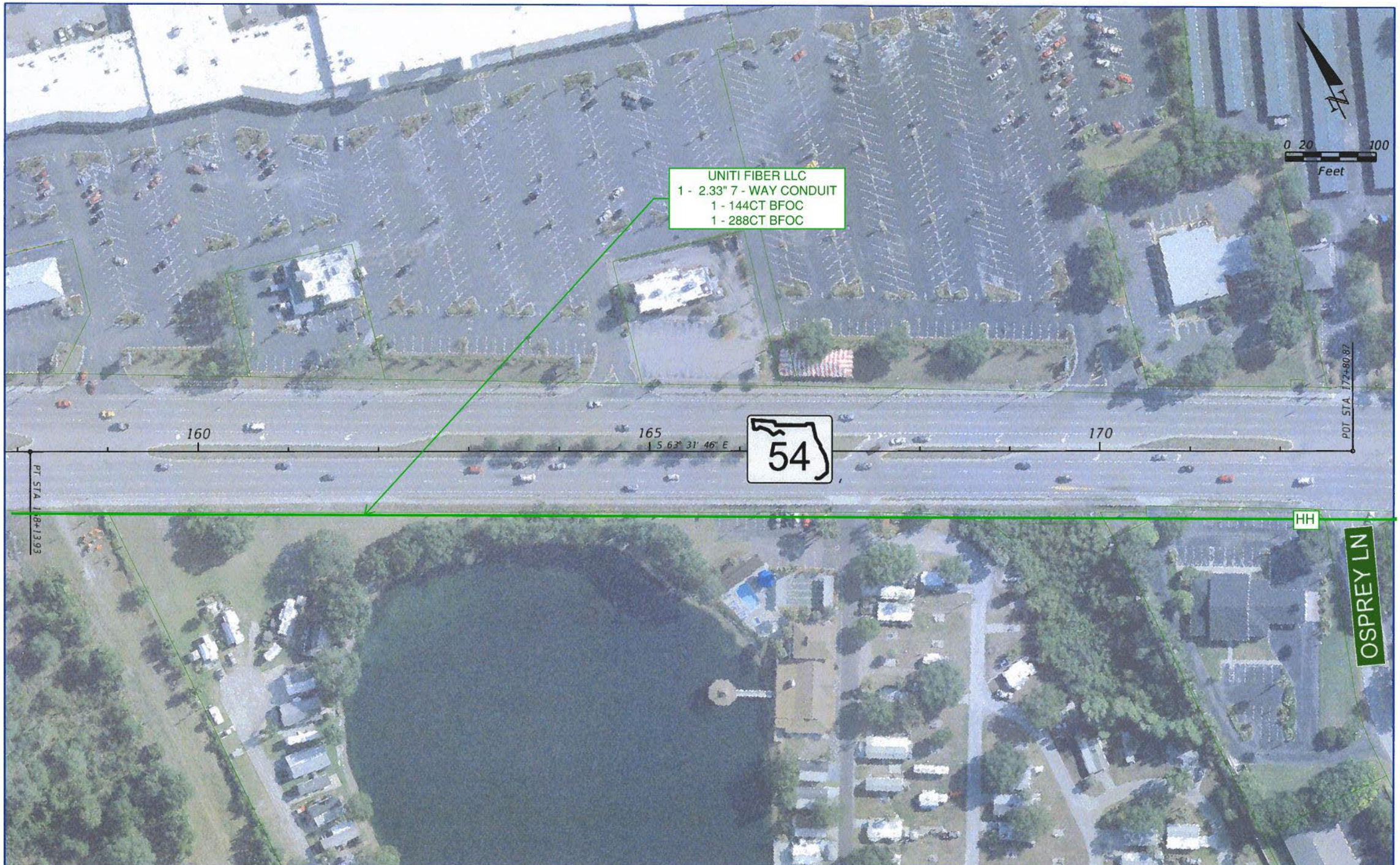

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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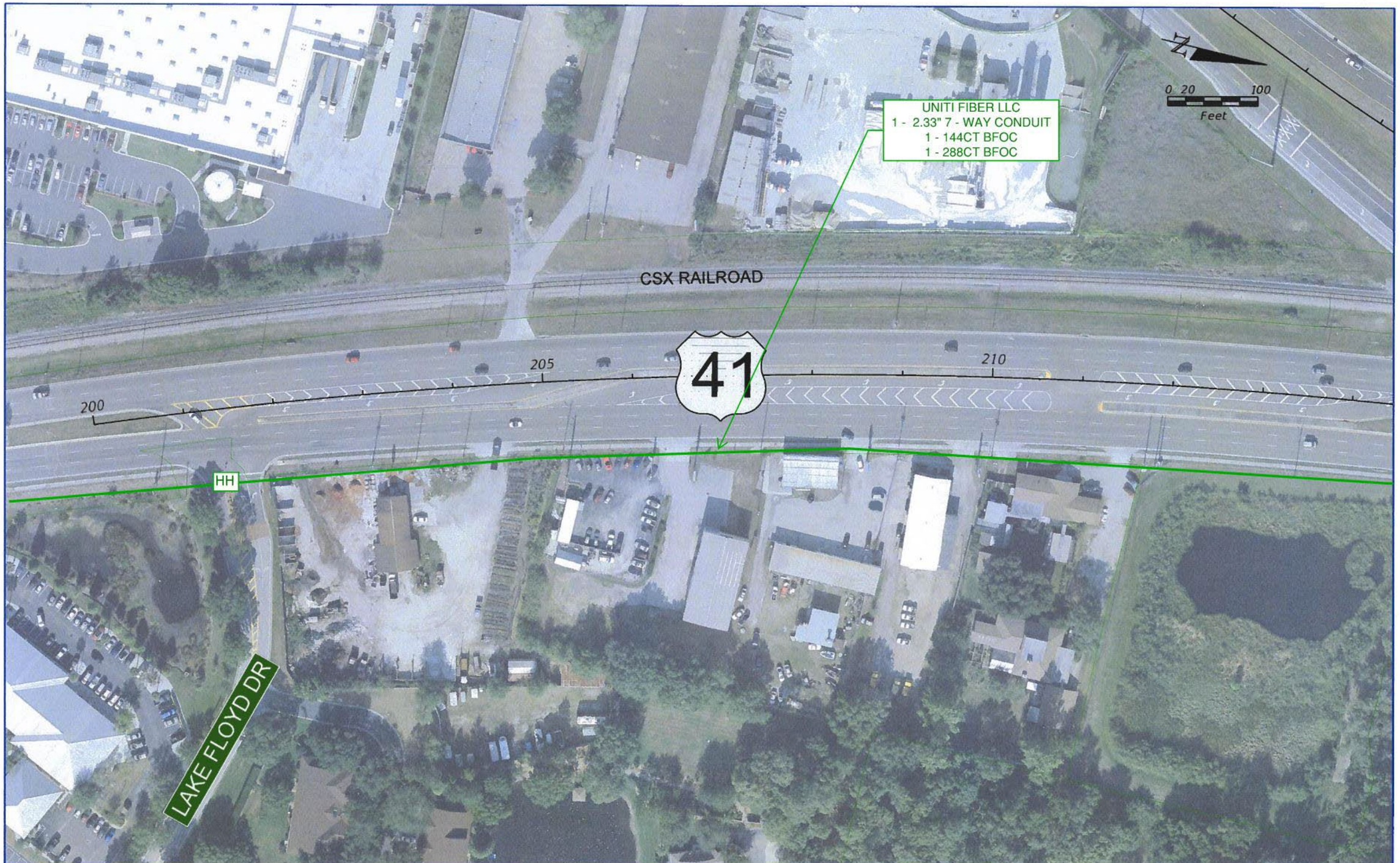

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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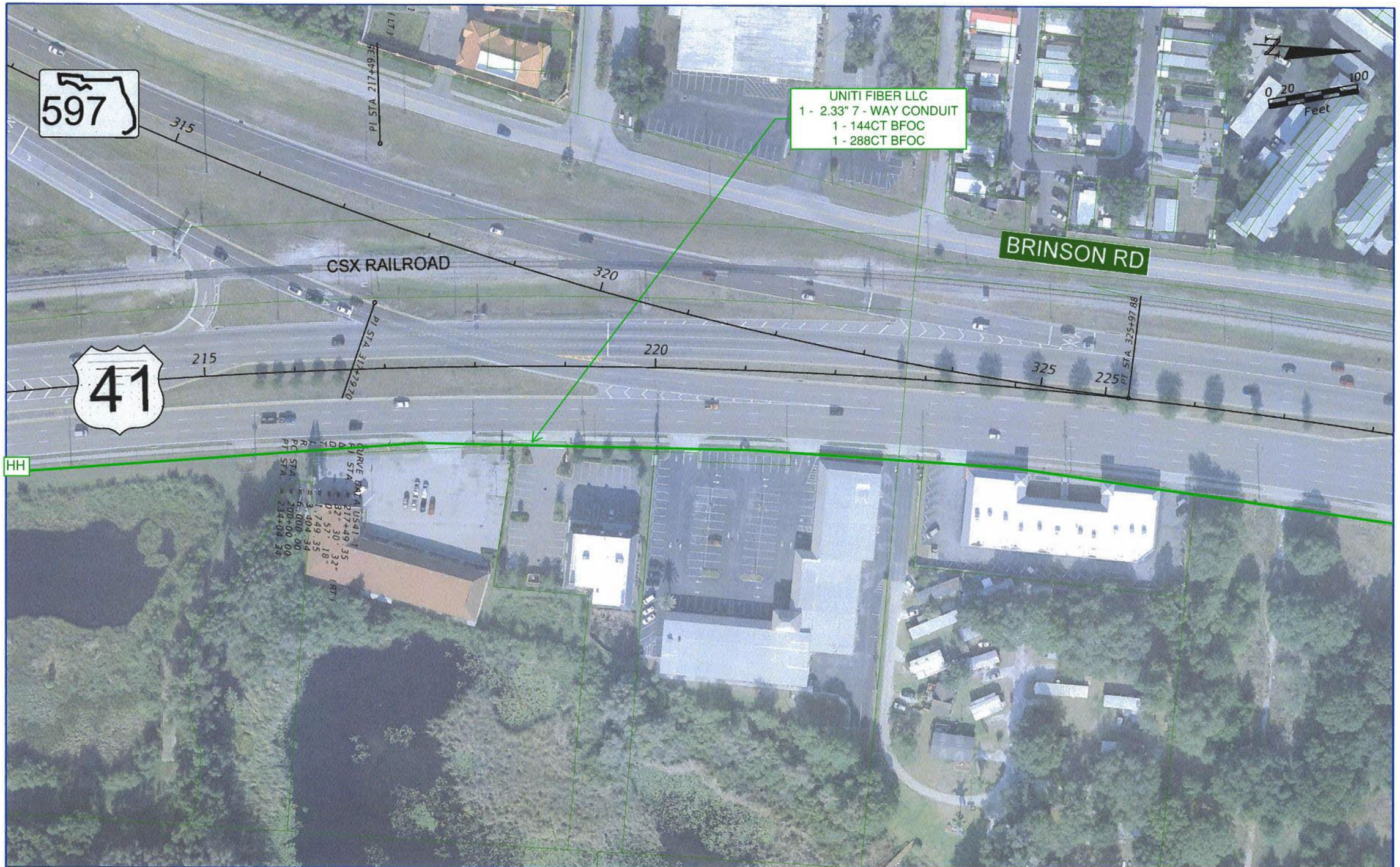

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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US 41/SR 54 PD&E STUDY

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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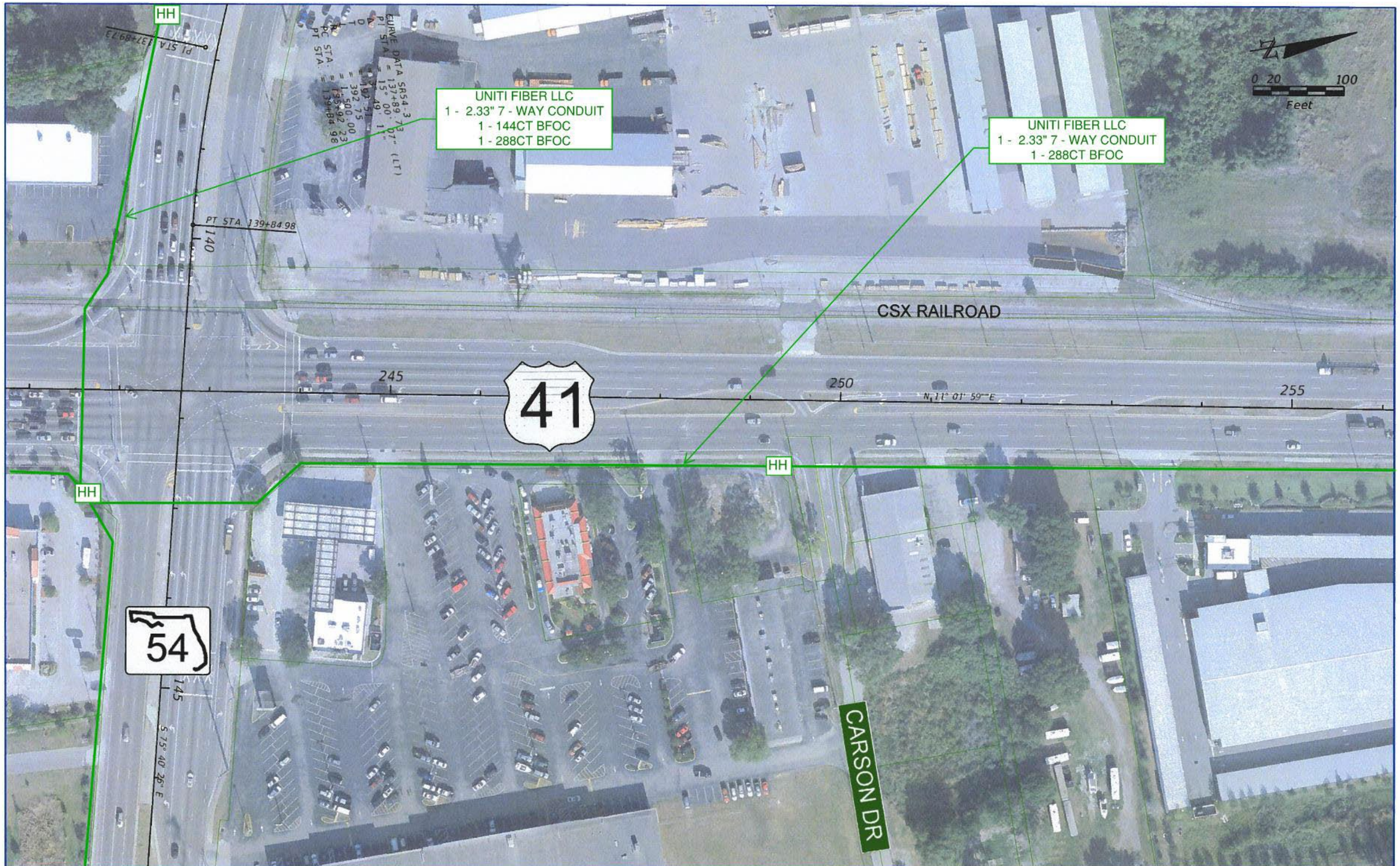

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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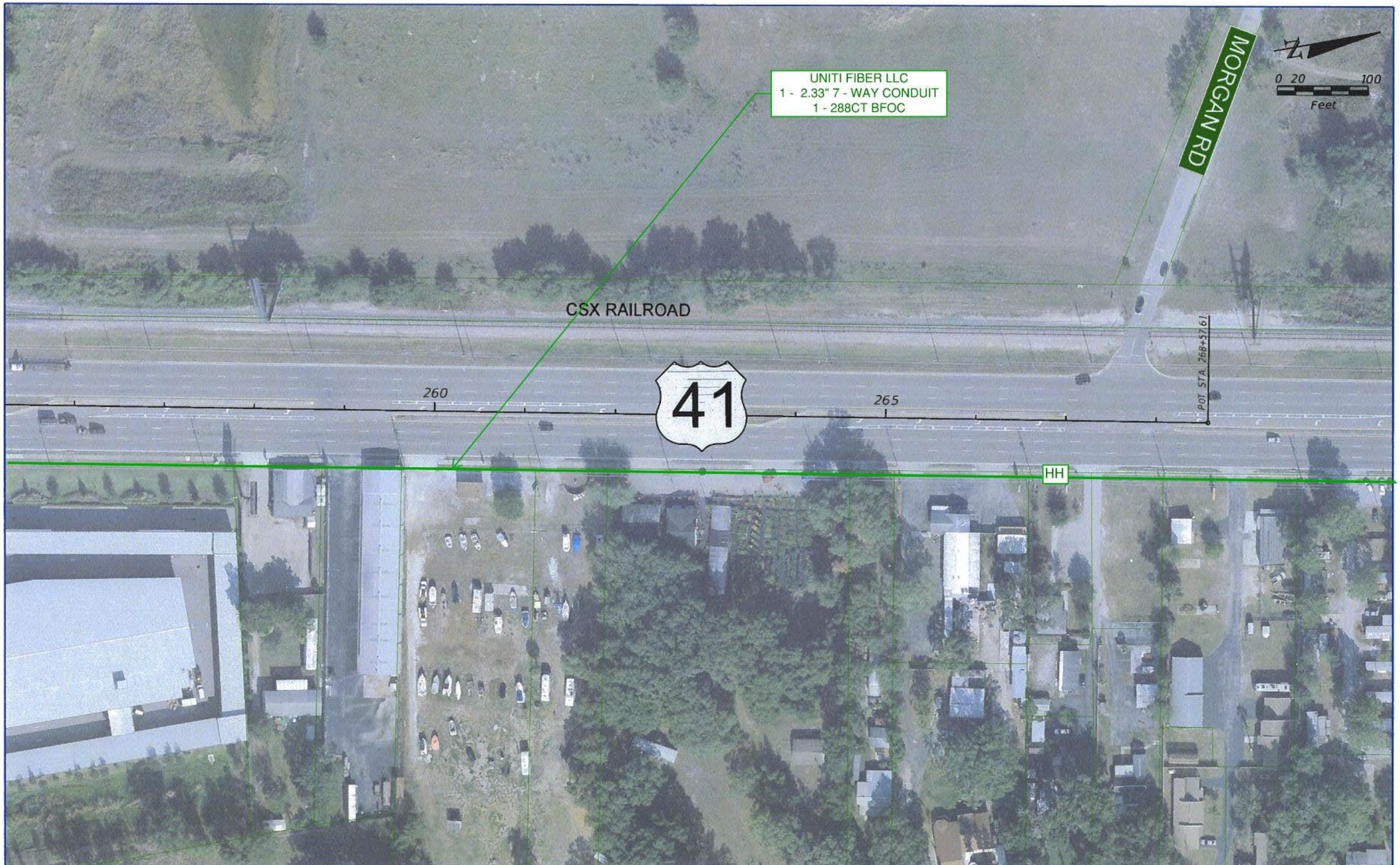

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

SHEET NO. 10

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

SHEET NO.
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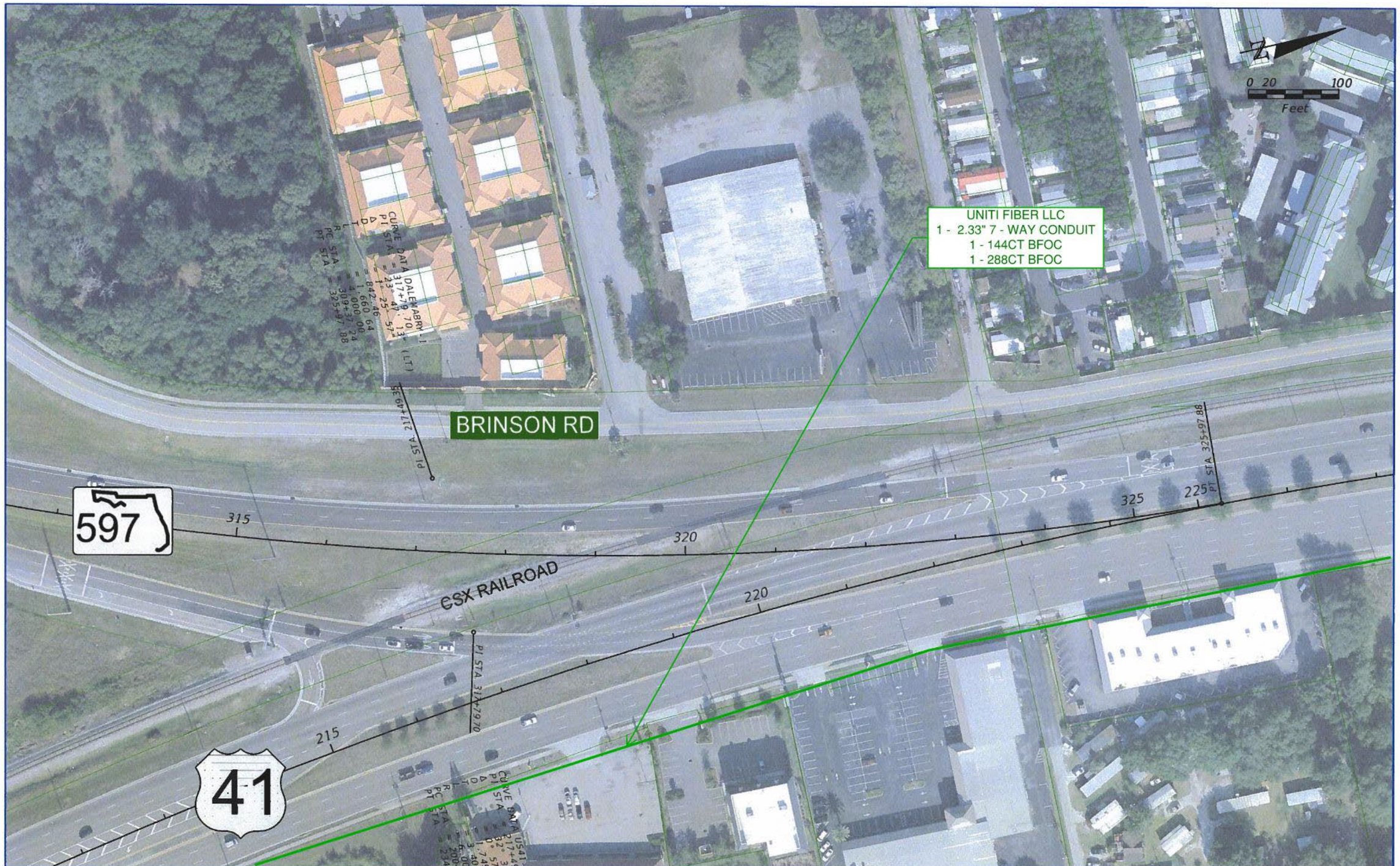

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

SHEET NO. 12

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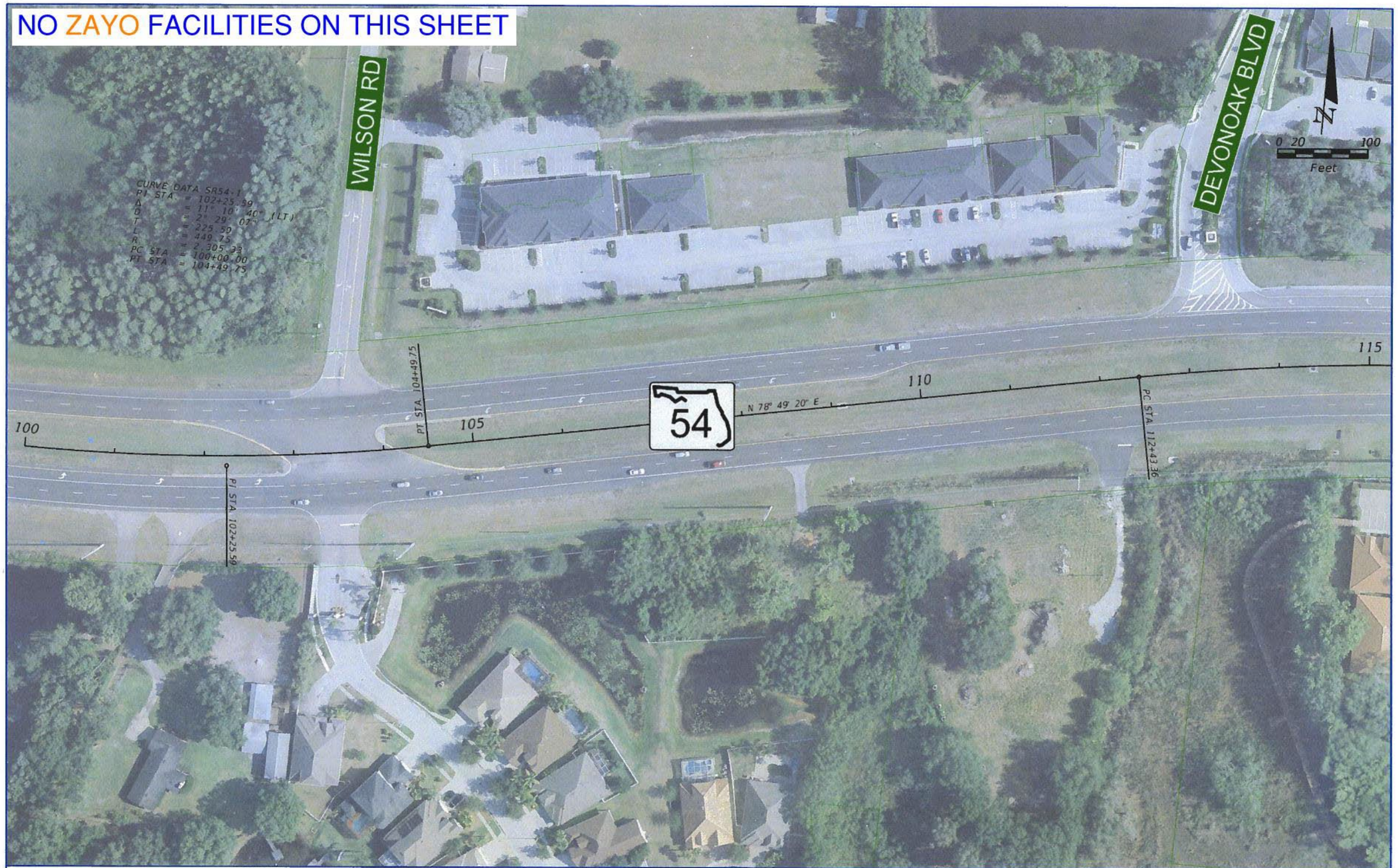
Financial Project ID: 419182-1-22-01
SR 45 (US41) from South of the SR 54 Intersection
to North of the SR 54 Intersection

PD&E Study

ZAYO FACILITY LOCATIONS BASED ON
AS-BUILTS AND FACILITY RECORDS
ZAYO Group LLC GL Revised Design 04.16.24

NO ZAYO FACILITIES ON THIS SHEET



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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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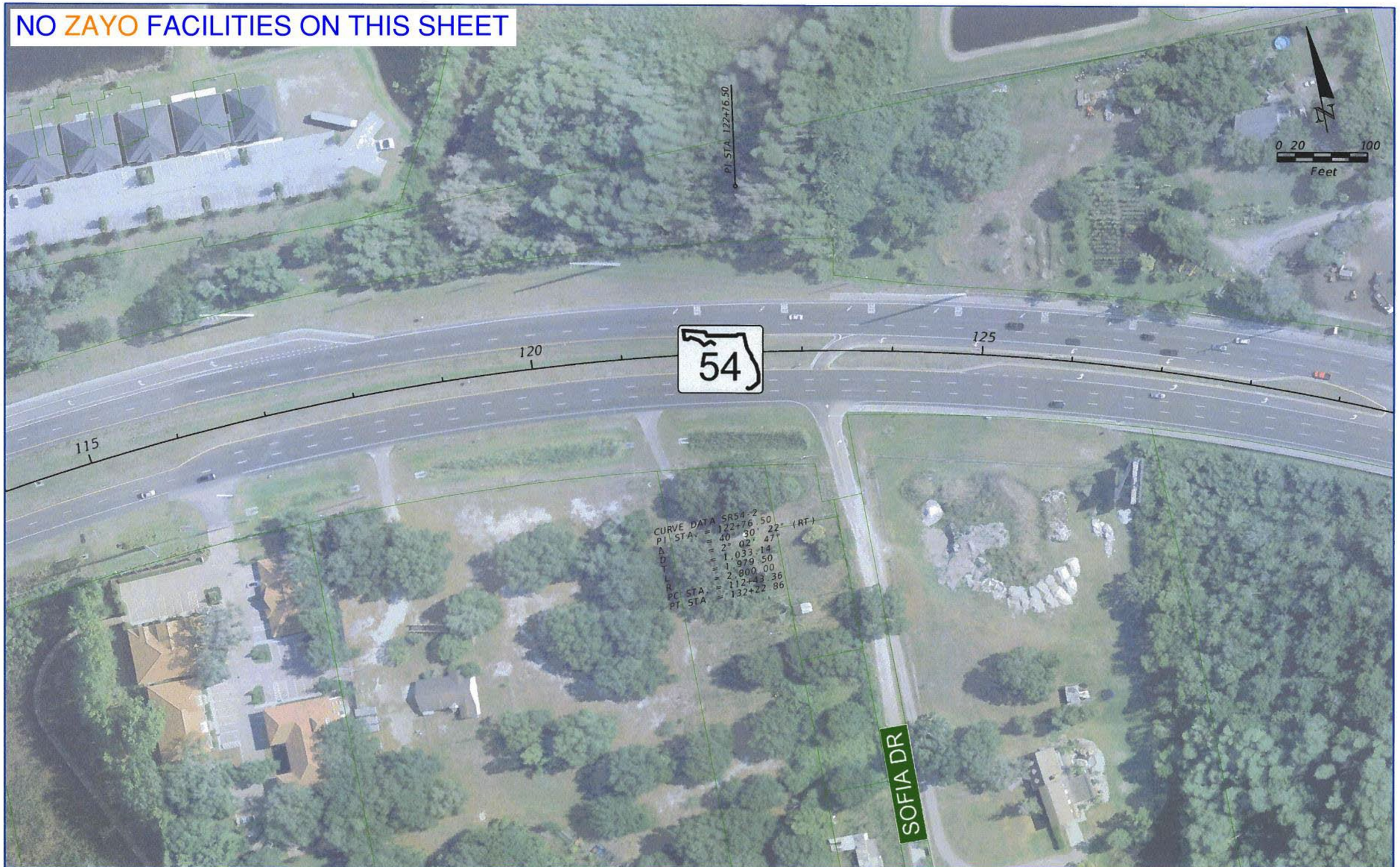

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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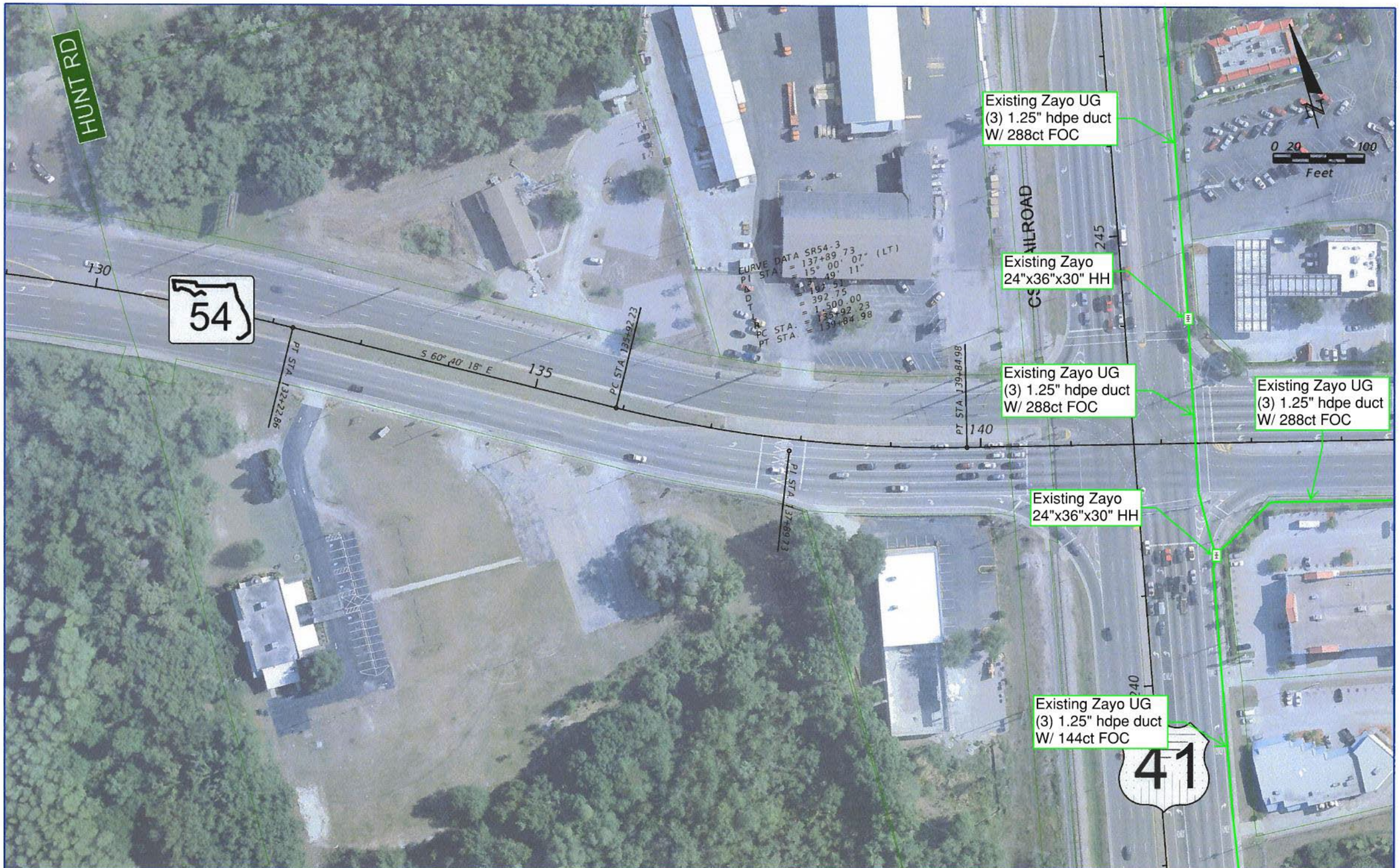

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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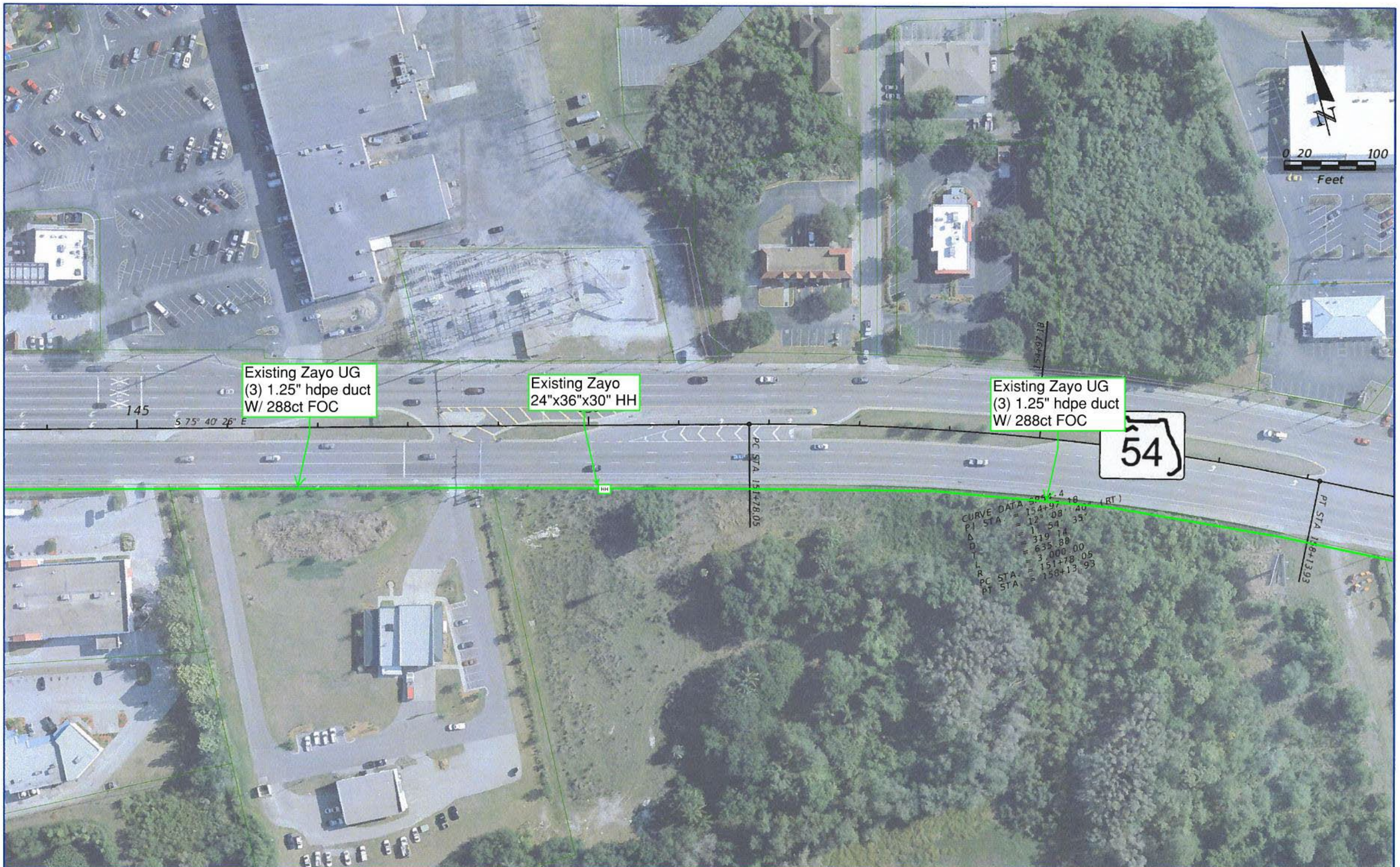

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US 41/SR 54 PD&E STUDY

SHEET NO. 4

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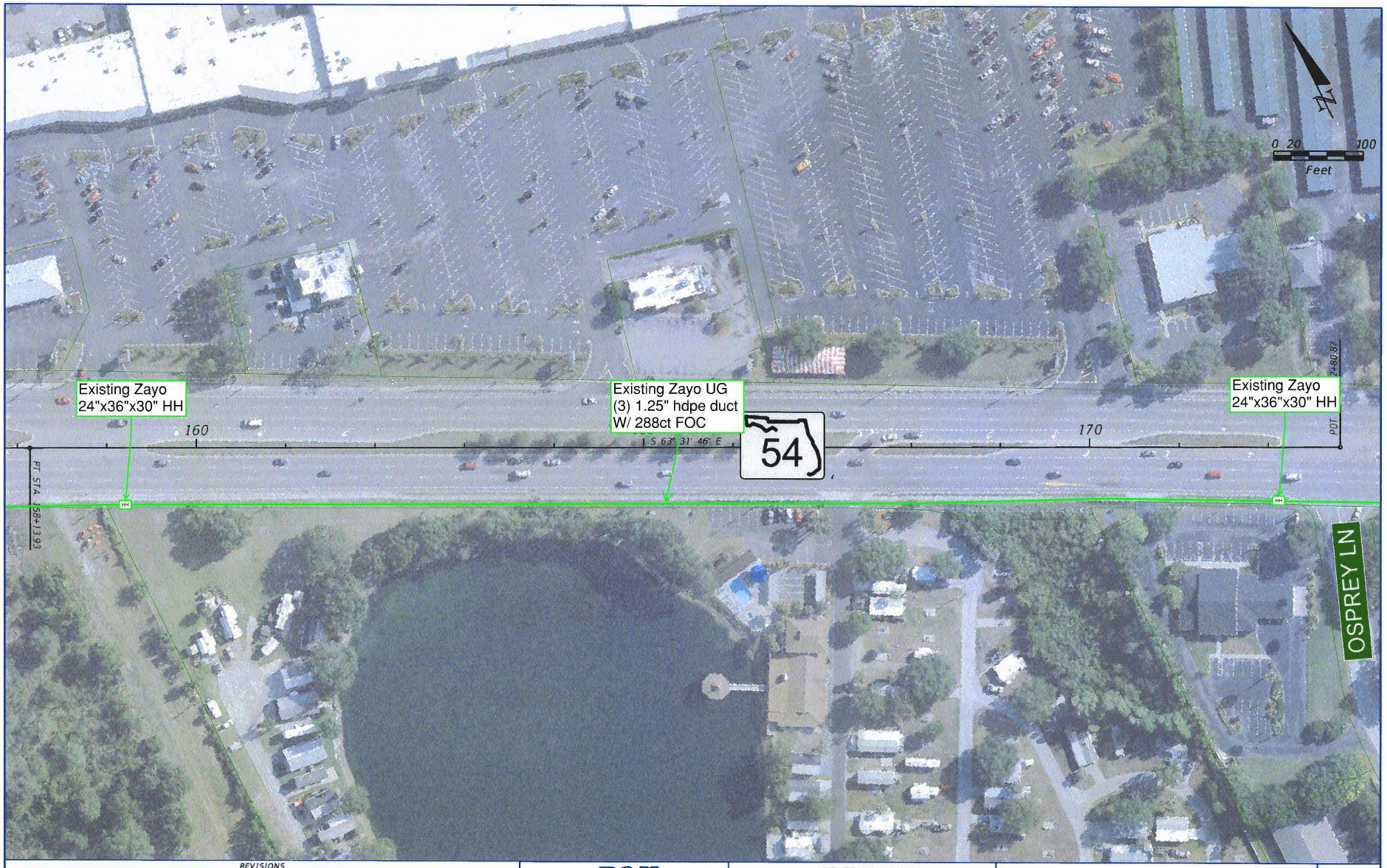

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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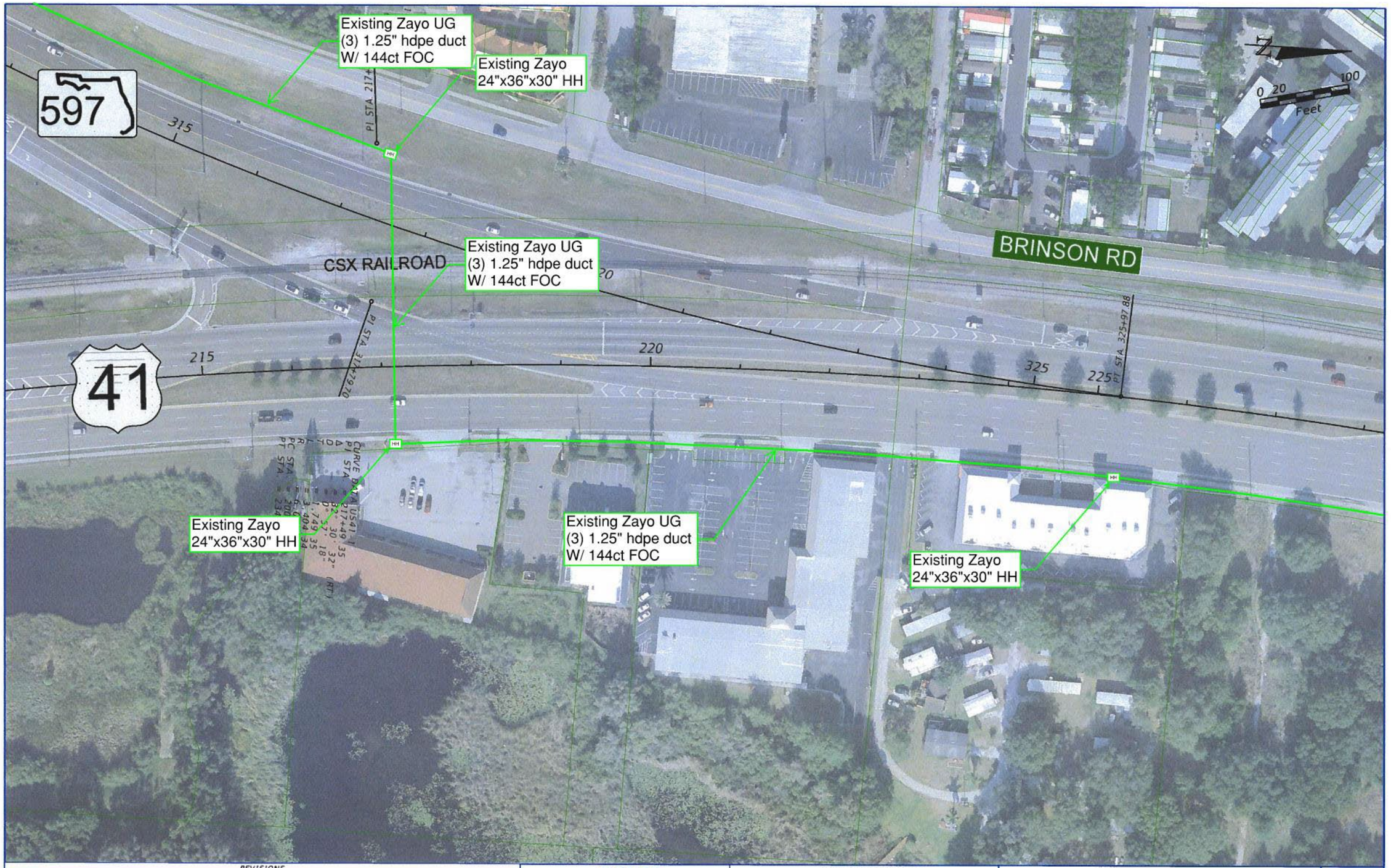

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US 41/SR 54 PD&E STUDY

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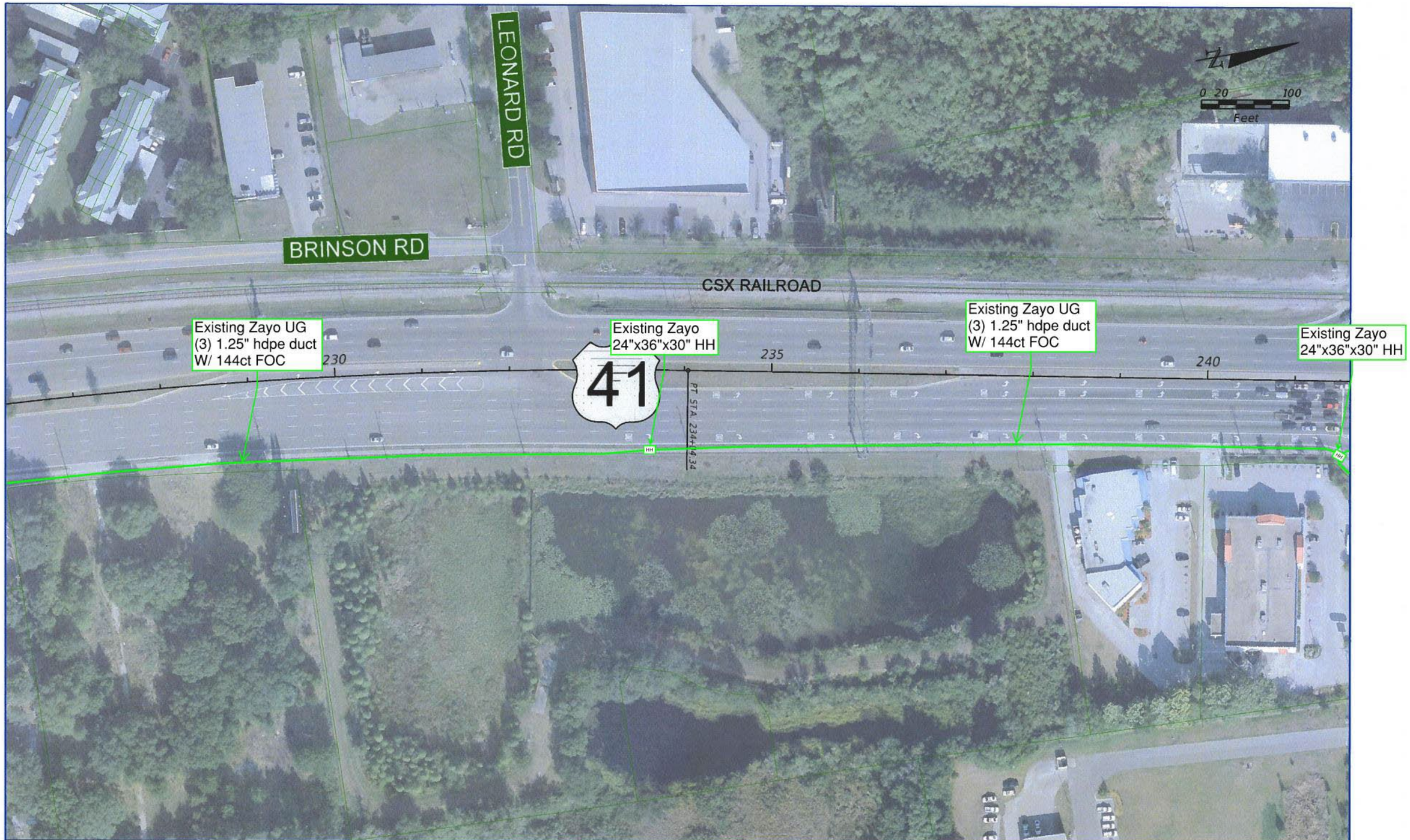

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

RS&H
Reynolds, Smith and Hills, Inc.
715 N. Westshore Boulevard, Suite 500
Tampa, Florida 33607-3999
813-989-5530
Certificate of Authorization No. 5620
Architectural, Engineering, Planning and Environmental Services

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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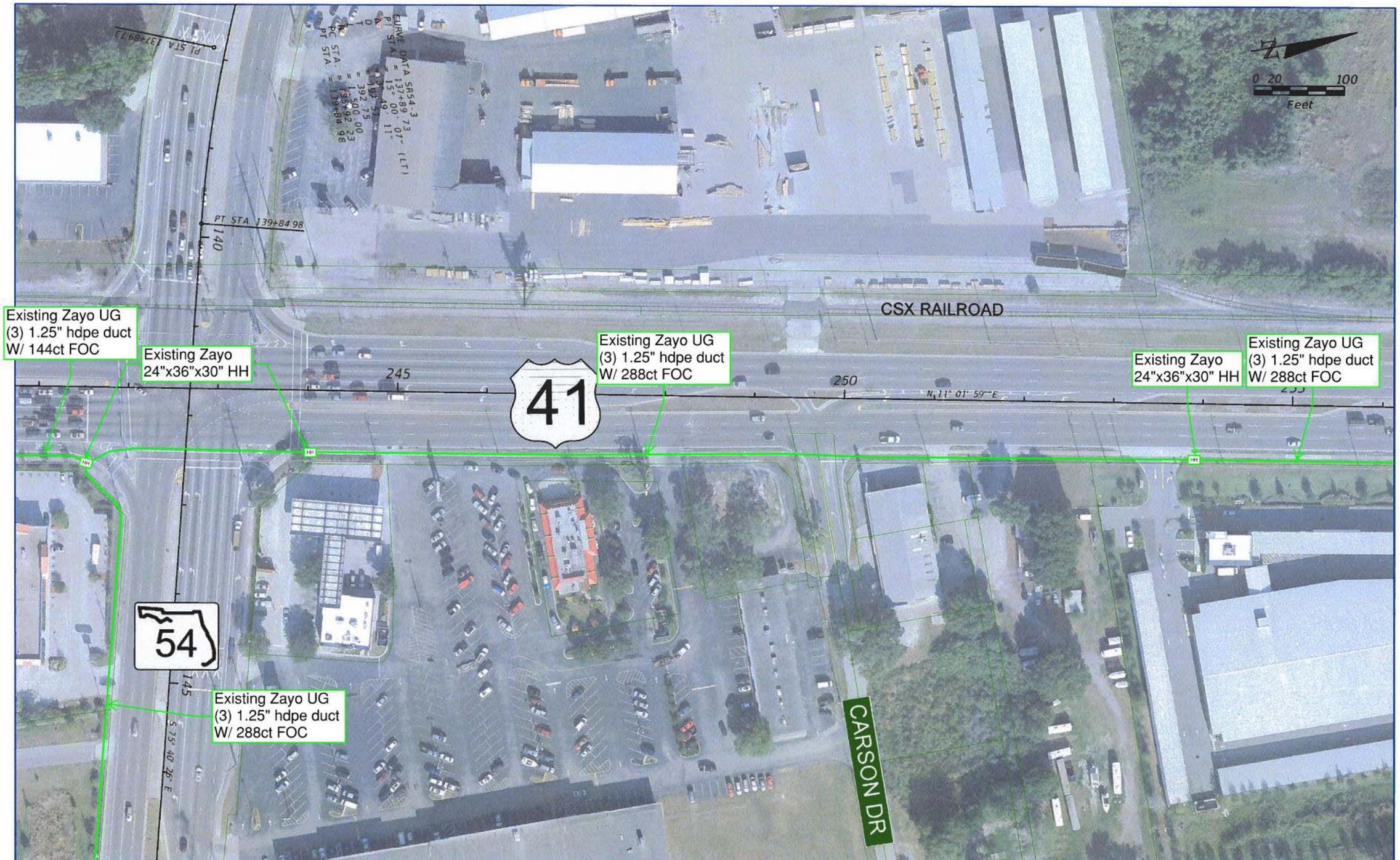

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

RS&H
Reynolds, Smith and Hills, Inc.
1715 N. Westshore Boulevard, Suite 500
Tampa, Florida 33607-3999
813-289-5550
Certificate of Authorization No. 5820
Architectural, Engineering, Planning and Environmental Services

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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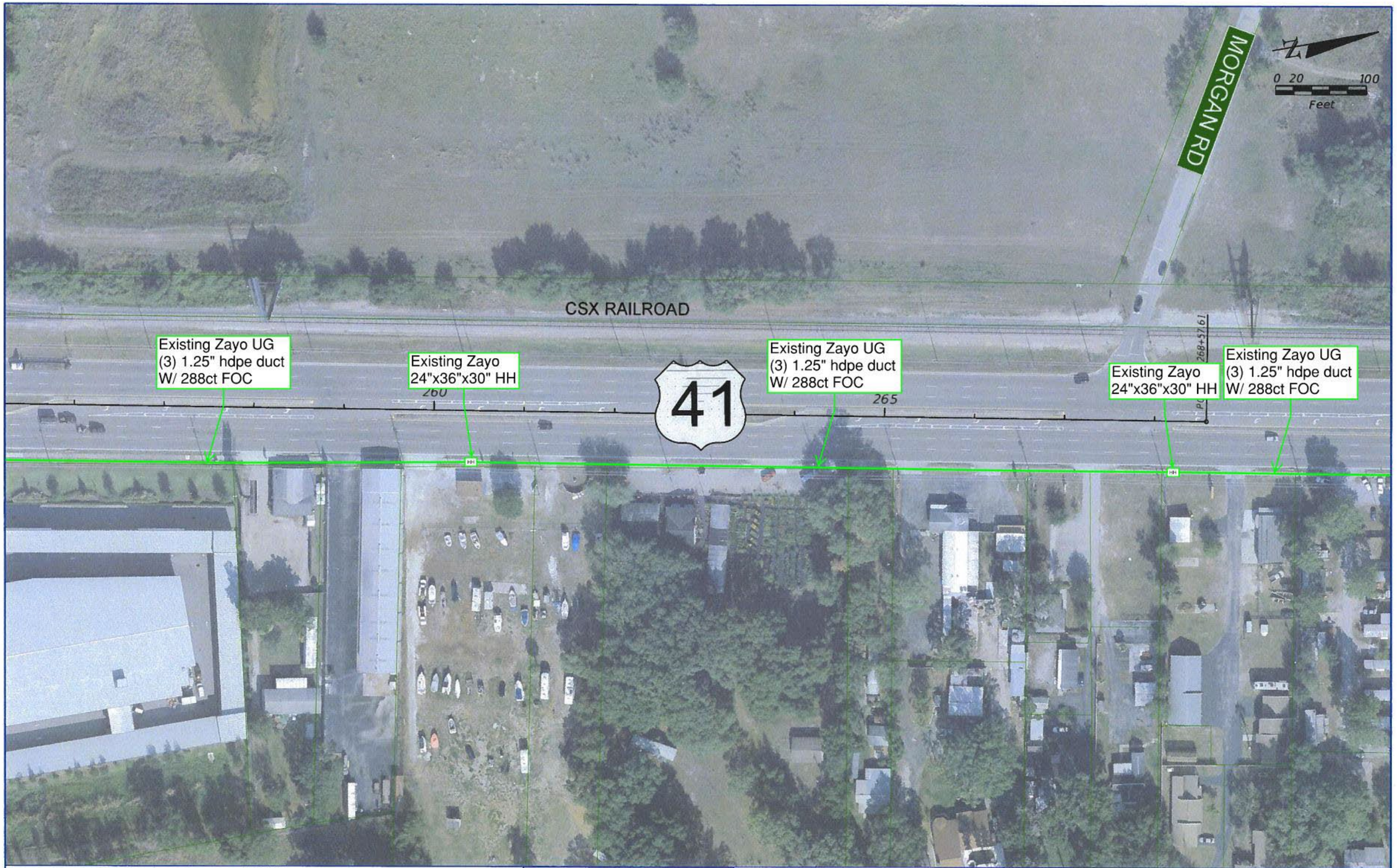

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

RS&H
Reynolds, Smith and Hills, Inc.
615 N. Westshore Boulevard, Suite 500
Tampa, Florida 33607-3999
813-289-5500
Certificate of Authorization No. 5620
Architectural, Engineering, Planning and Environmental Services

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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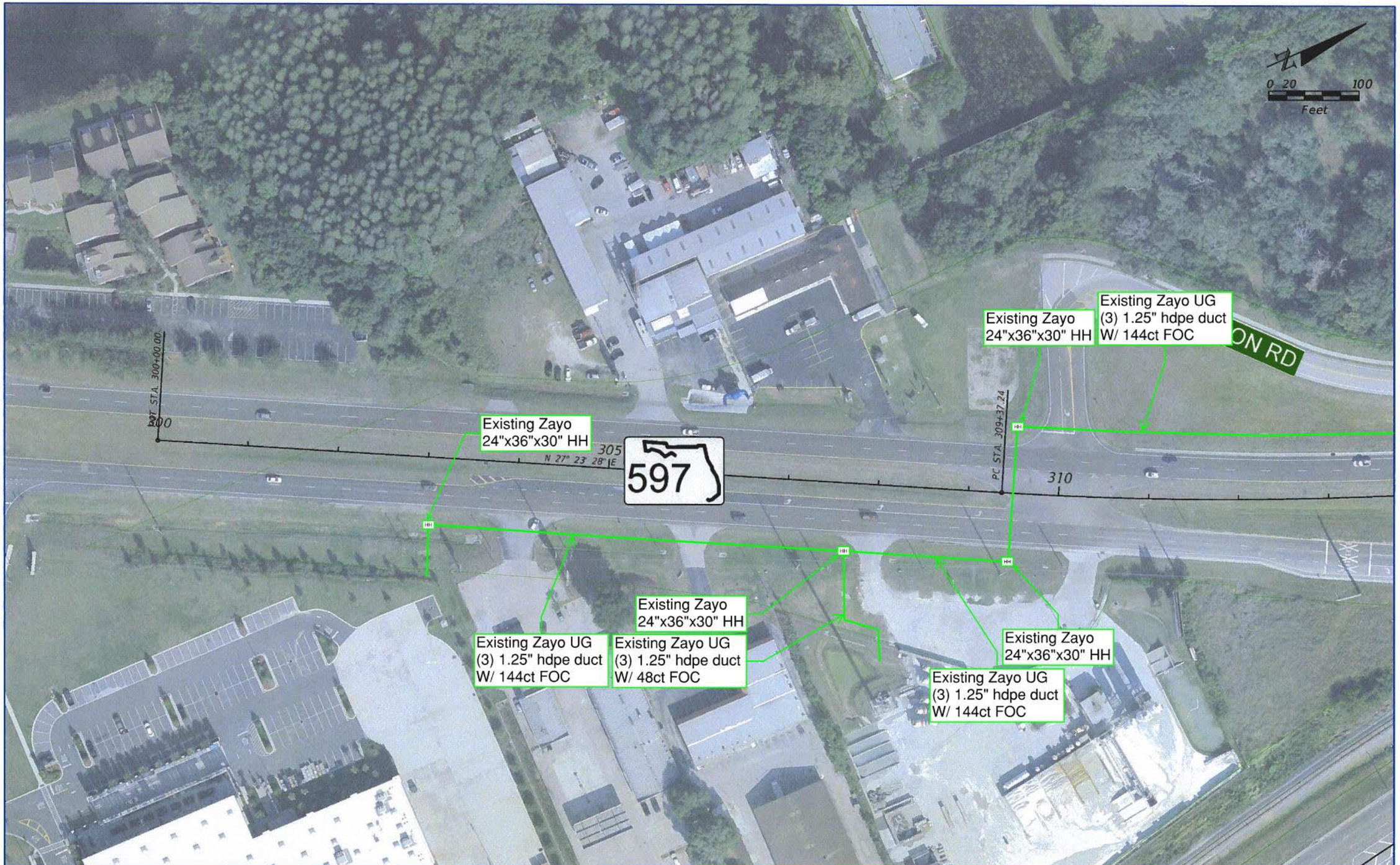

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

RS&H
Reynolds, Smith and Hills, Inc.
1715 N. Westshore Boulevard, Suite 500
Tampa, Florida 33607-3999
813-289-5550
Certificate of Authorization No. 5600
Architectural, Engineering, Planning and Environmental Services

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

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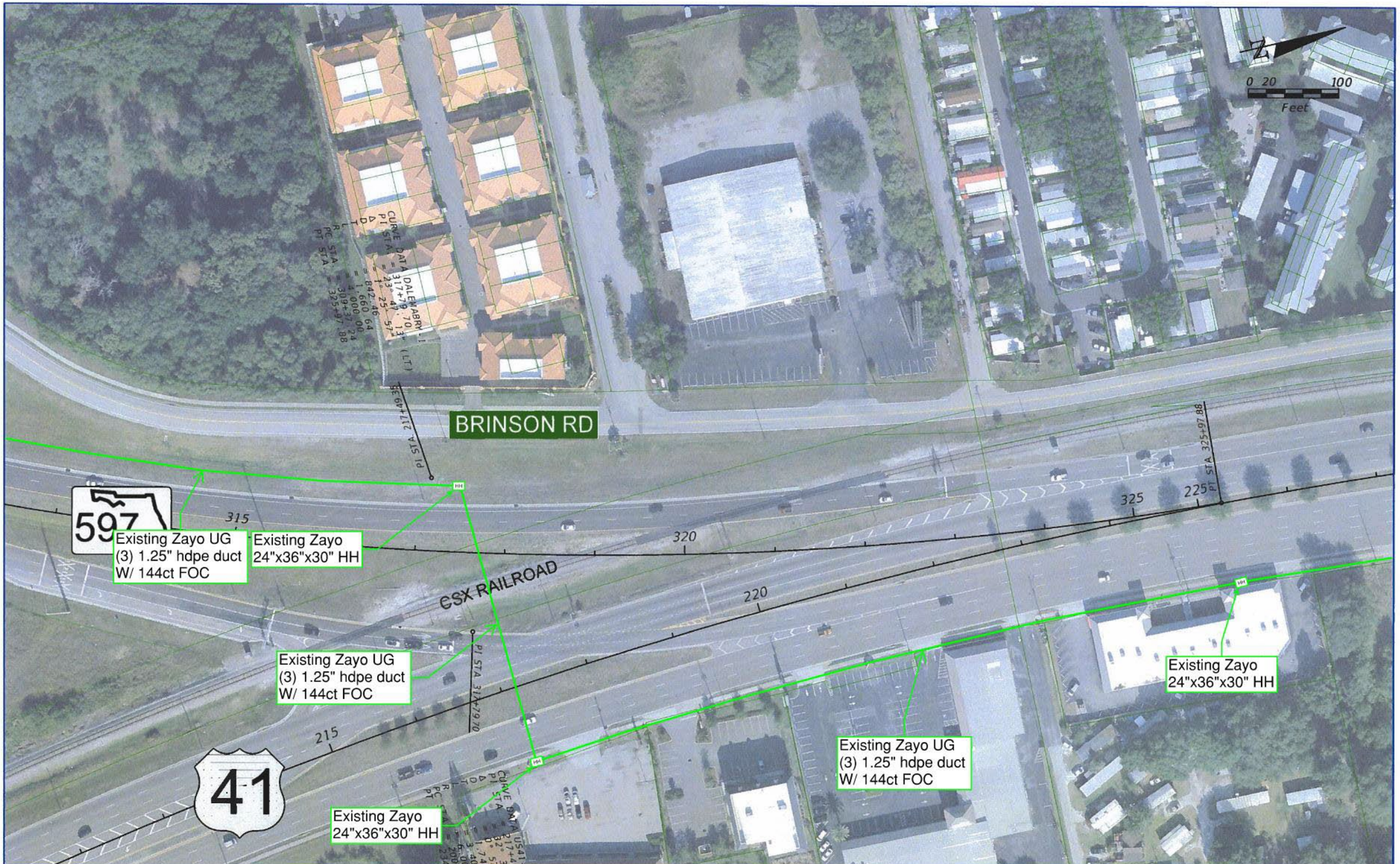

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

RS&H
Reynolds, Smith and Hills, Inc.
615 N. Westshore Boulevard, Suite 500
Tampa, Florida 33607-3999
813-289-5550
Certificate of Authorization No. 5600
Architectural, Engineering, Planning and Environmental Services

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	PASCO	419182-1-22-01

US 41/SR 54 PD&E STUDY

SHEET NO. 12

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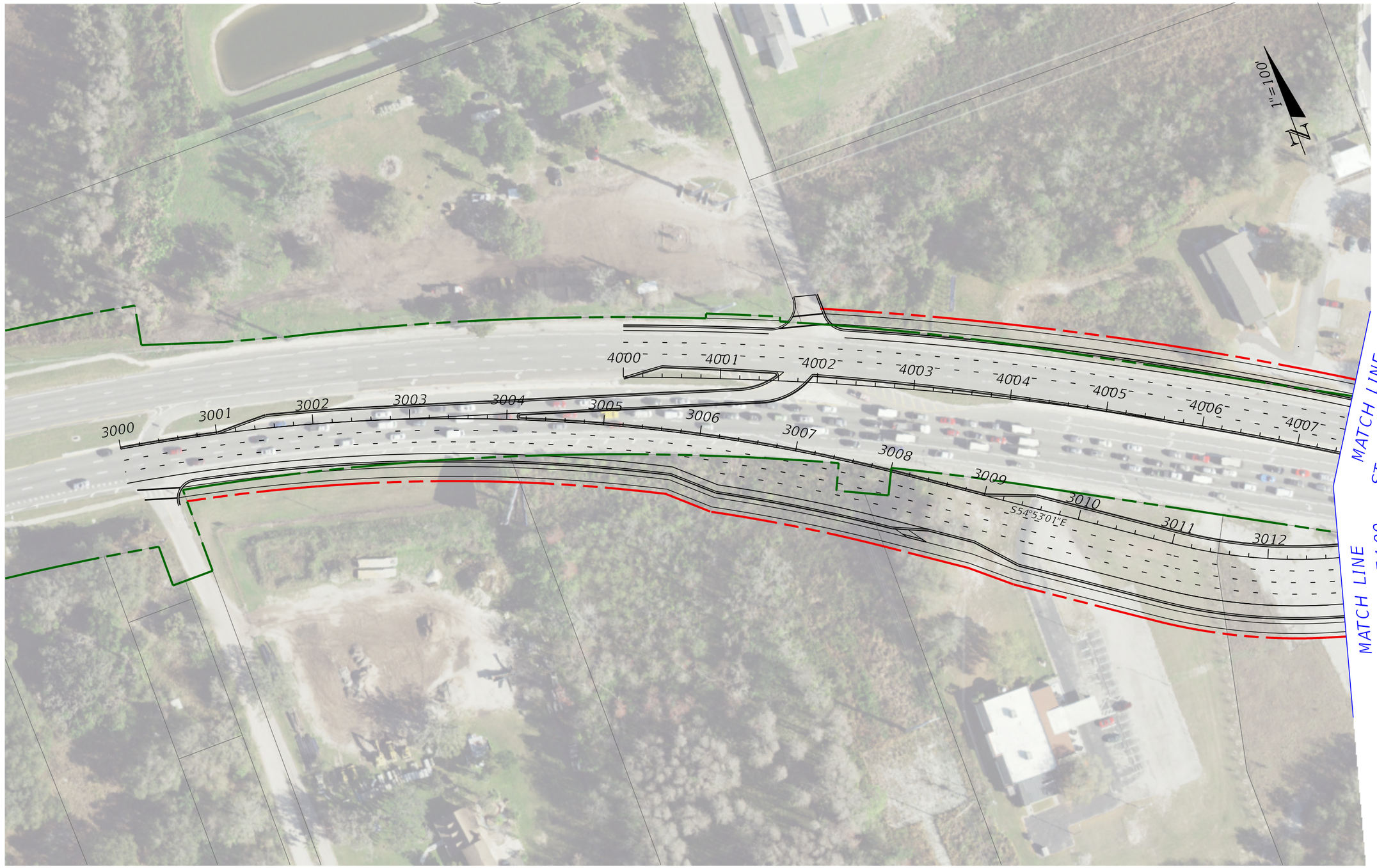
Appendix C: Preferred Alternative Concepts



LEGEND

- PROPOSED R/W LINE
- EXISTING R/W LINE
- EXISTING PROPERTY LINE
- WETLAND LINE
- OSW LINE
- PROPOSED NOISE WALL
- EXIST. CSX RAILROAD
- PROPOSED ROADWAY
- PROPOSED MEDIAN
- PROPOSED SIDEWALK
- PROPOSED DRIVEWAY
- PROPOSED BRIDGE
- POND SITE
- PROPOSED GRADE SEPARATION
- FLOODPLAIN
- FPC SITE
- POTENTIAL CONTAMINATION SITE
- POTENTIAL RELOCATION "R" - RESIDENTIAL "B" - BUSINESS

ENGINEER OF RECORD

RICK LANGLASS, P.E.
LICENSE NUMBER: 62498
RS&H, INC.
1715 N WESTSHORE BLVD., SUITE 600
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

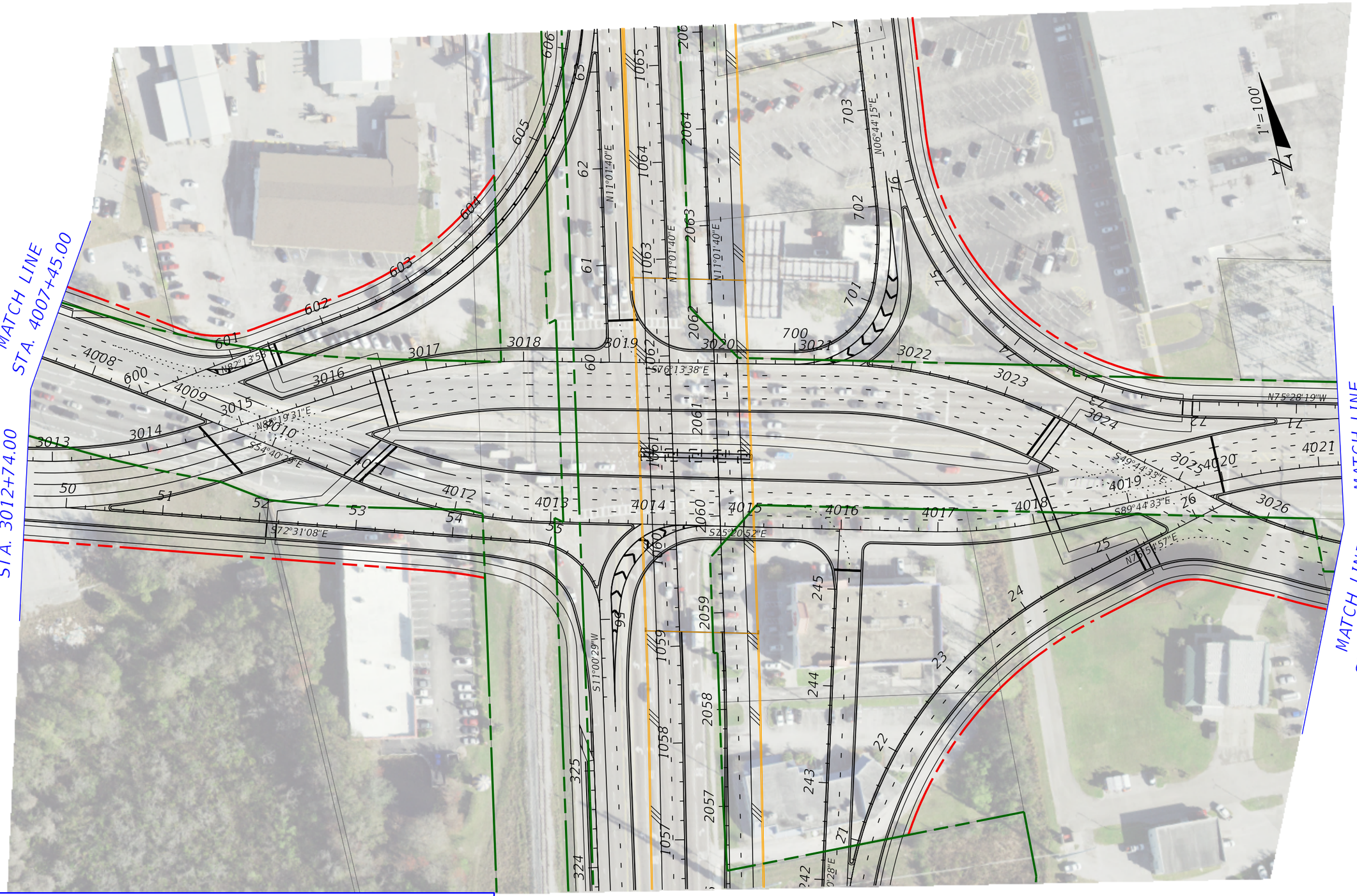
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 54	PASCO	419182-1-22-10

CONCEPT PLAN

SR 54 - DDI

SHEET NO.

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



LEGEND

- PROPOSED R/W LINE
- EXISTING R/W LINE
- EXISTING PROPERTY LINE
- WETLAND LINE
- OSW LINE
- PROPOSED NOISE WALL
- EXIST. CSX RAILROAD
- PROPOSED ROADWAY
- PROPOSED MEDIAN
- PROPOSED SIDEWALK
- PROPOSED DRIVEWAY
- PROPOSED BRIDGE
- POND SITE
- PROPOSED GRADE SEPARATION
- FLOODPLAIN
- FPC SITE
- POTENTIAL CONTAMINATION SITE
- POTENTIAL RELOCATION "R" - RESIDENTIAL "B" - BUSINESS

ENGINEER OF RECORD

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TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 54	PASCO	419182-1-22-10

CONCEPT PLAN

SR 54 - DDI

SHEET NO.

FAC NOTE

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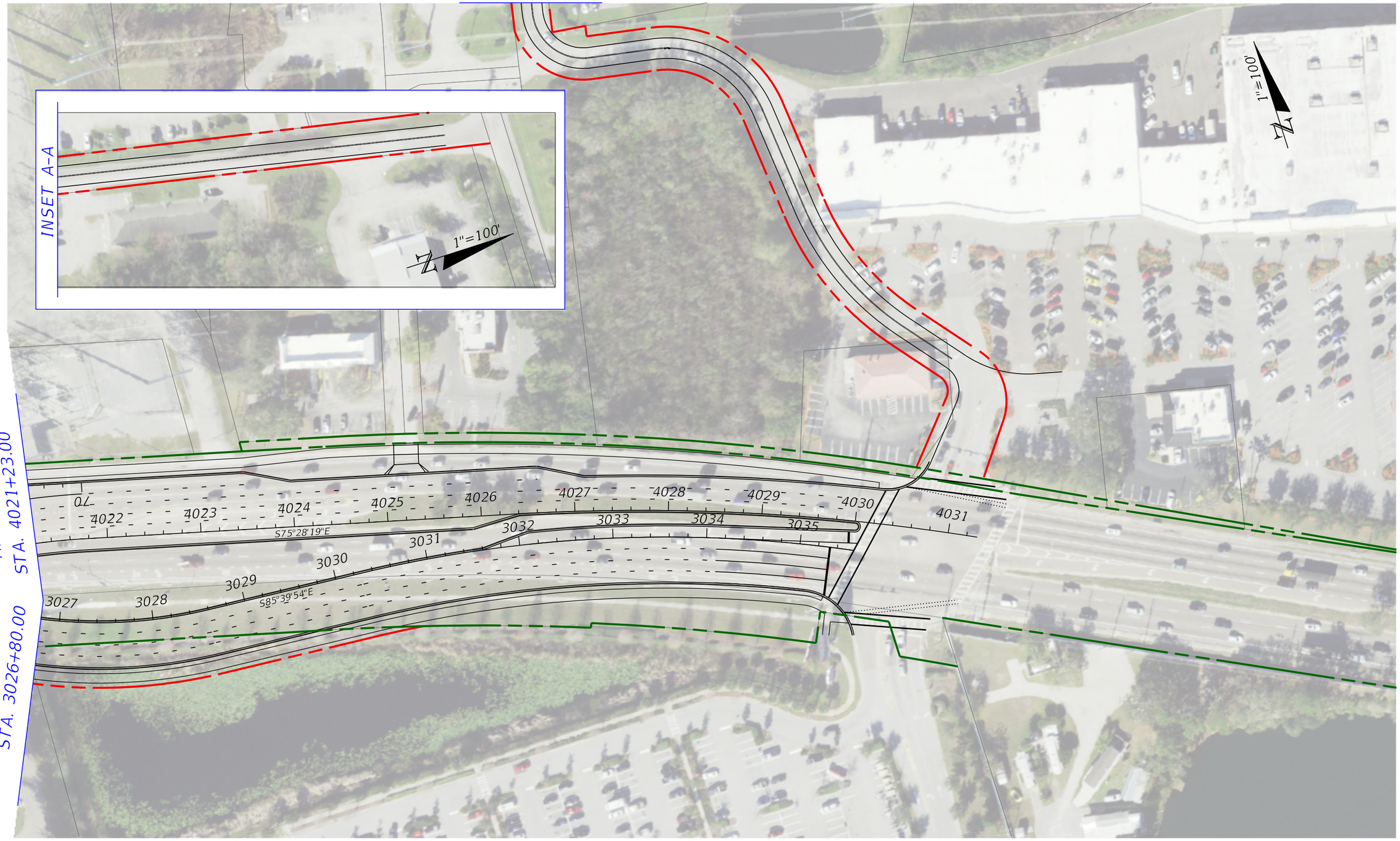

LEGEND

- PROPOSED R/W LINE
- EXISTING R/W LINE
- EXISTING PROPERTY LINE
- WETLAND LINE
- OSW LINE
- PROPOSED NOISE WALL
- EXIST. CSX RAILROAD
- PROPOSED ROADWAY
- PROPOSED MEDIAN
- PROPOSED SIDEWALK
- PROPOSED DRIVEWAY
- PROPOSED BRIDGE
- POND SITE
- PROPOSED GRADE SEPARATION
- FLOODPLAIN
- FPC SITE
- POTENTIAL CONTAMINATION SITE
- POTENTIAL RELOCATION "R" - RESIDENTIAL "B" - BUSINESS

ENGINEER OF RECORD
RICK LANGLASS, P.E.
LICENSE NUMBER: 62498
RS&H, INC.
1715 N WESTSHORE BLVD., SUITE 600
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 54	PASCO	419182-1-22-10

CONCEPT PLAN

SR 54 - DDI

SHEET NO.

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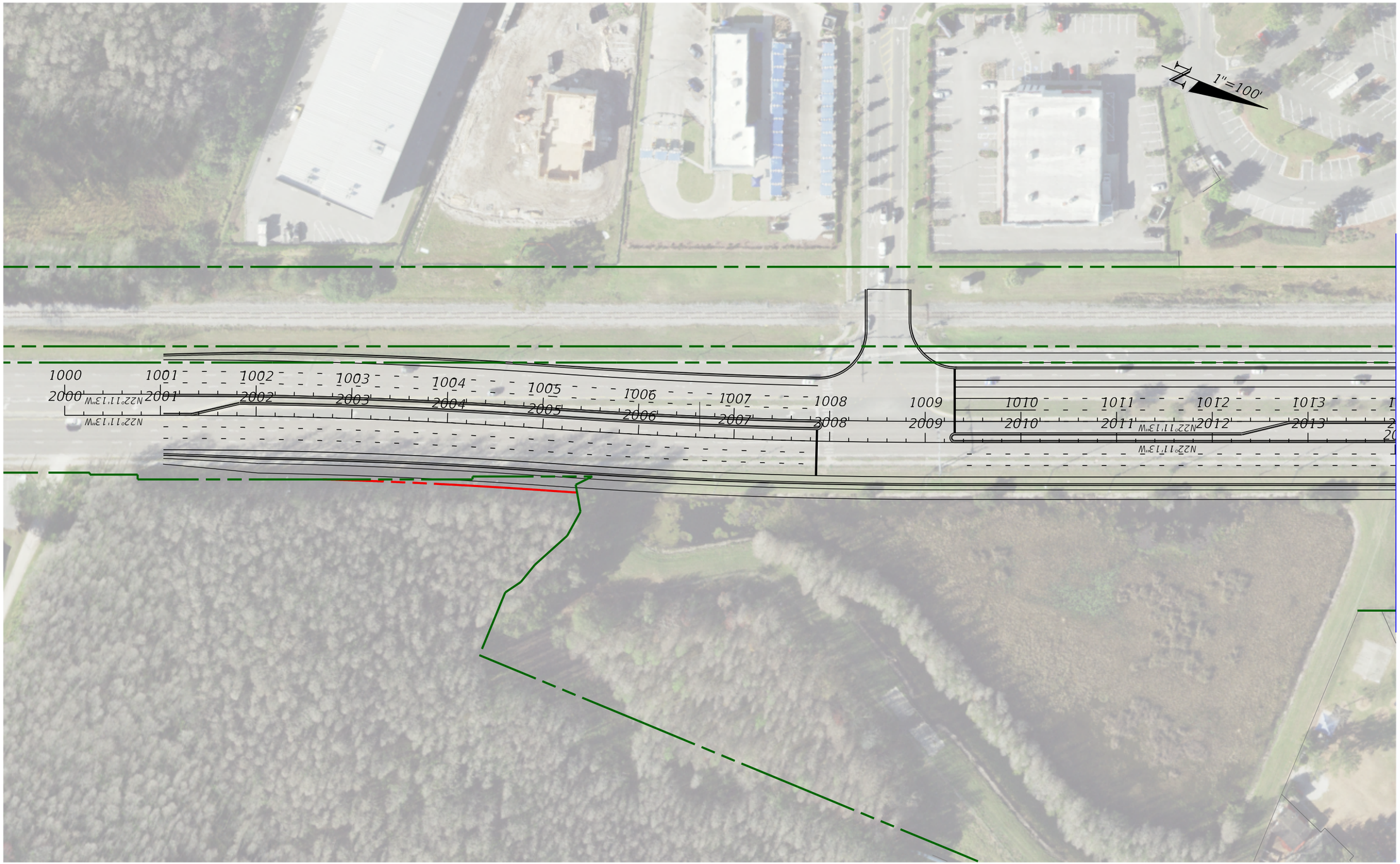

LEGEND

- PROPOSED R/W LINE
- EXISTING R/W LINE
- EXISTING PROPERTY LINE
- WETLAND LINE
- OSW LINE
- PROPOSED NOISE WALL
- EXIST. CSX RAILROAD
- PROPOSED ROADWAY
- PROPOSED MEDIAN
- PROPOSED SIDEWALK
- PROPOSED DRIVEWAY
- PROPOSED BRIDGE
- POND SITE
- PROPOSED GRADE SEPARATION
- FLOODPLAIN
- FPC SITE
- POTENTIAL CONTAMINATION SITE
- POTENTIAL RELOCATION "R" - RESIDENTIAL "B" - BUSINESS

ENGINEER OF RECORD

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 54	PASCO	419182-1-22-10

CONCEPT PLAN

US 41

SHEET NO.

FAC NOTE

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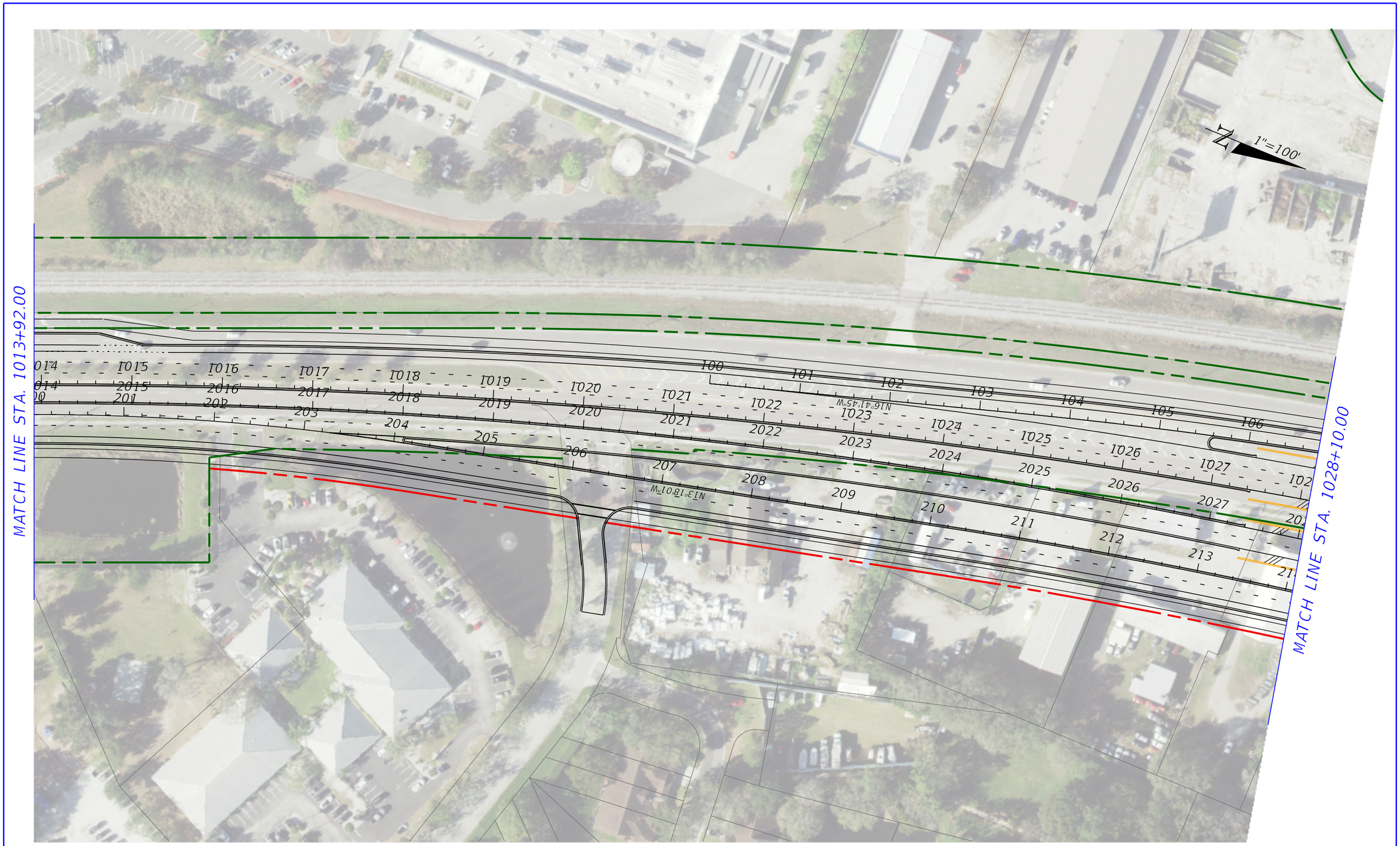

LEGEND

- PROPOSED R/W LINE
- EXISTING R/W LINE
- EXISTING PROPERTY LINE
- WETLAND LINE
- OSW LINE
- PROPOSED NOISE WALL
- EXIST. CSX RAILROAD
- PROPOSED ROADWAY
- PROPOSED MEDIAN
- PROPOSED SIDEWALK
- PROPOSED DRIVEWAY
- PROPOSED BRIDGE
- POND SITE
- PROPOSED GRADE SEPARATION
- FLOODPLAIN
- FPC SITE
- POTENTIAL CONTAMINATION SITE
- POTENTIAL RELOCATION "R" - RESIDENTIAL "B" - BUSINESS

ENGINEER OF RECORD

RICK LANGLASS, P.E.
LICENSE NUMBER: 62498
RS&H, INC.
1715 N WESTSHORE BLVD., SUITE 600
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 54	PASCO	419182-1-22-10

CONCEPT PLAN

US 41

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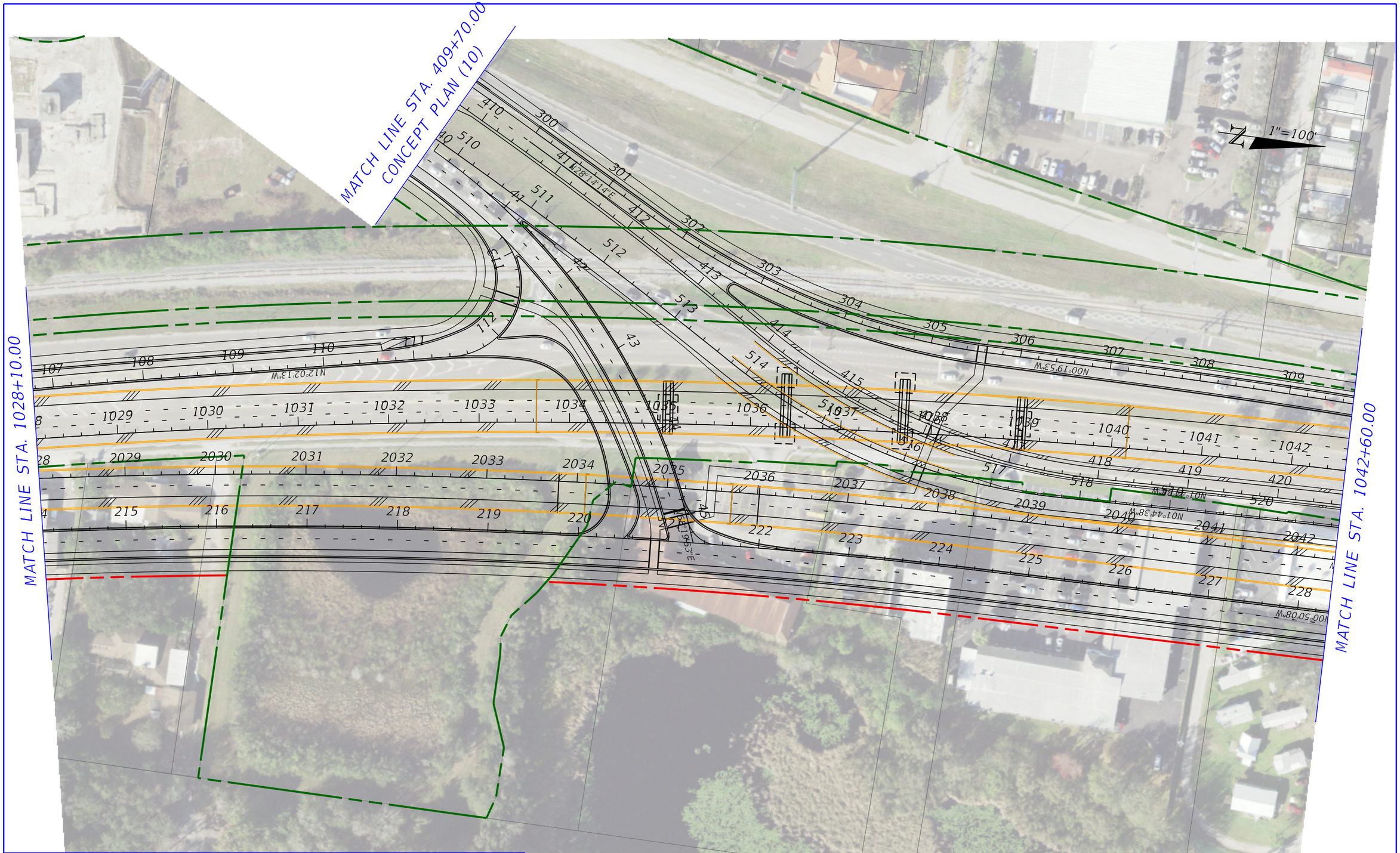

LEGEND

- PROPOSED R/W LINE
- EXISTING R/W LINE
- EXISTING PROPERTY LINE
- WETLAND LINE
- OSW LINE
- PROPOSED NOISE WALL
- EXIST. CSX RAILROAD
- PROPOSED ROADWAY
- PROPOSED MEDIAN
- PROPOSED SIDEWALK
- PROPOSED DRIVEWAY
- PROPOSED BRIDGE
- POND SITE
- PROPOSED GRADE SEPARATION
- FLOODPLAIN
- FPC SITE
- POTENTIAL CONTAMINATION SITE
- POTENTIAL RELOCATION "R" - RESIDENTIAL "B" - BUSINESS

ENGINEER OF RECORD

RICK LANGLASS, P.E.
LICENSE NUMBER: 62498
RS&H, INC.
1715 N WESTSHORE BLVD., SUITE 600
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 54	PASCO	419182-1-22-10

CONCEPT PLAN

US 41

SHEET NO.

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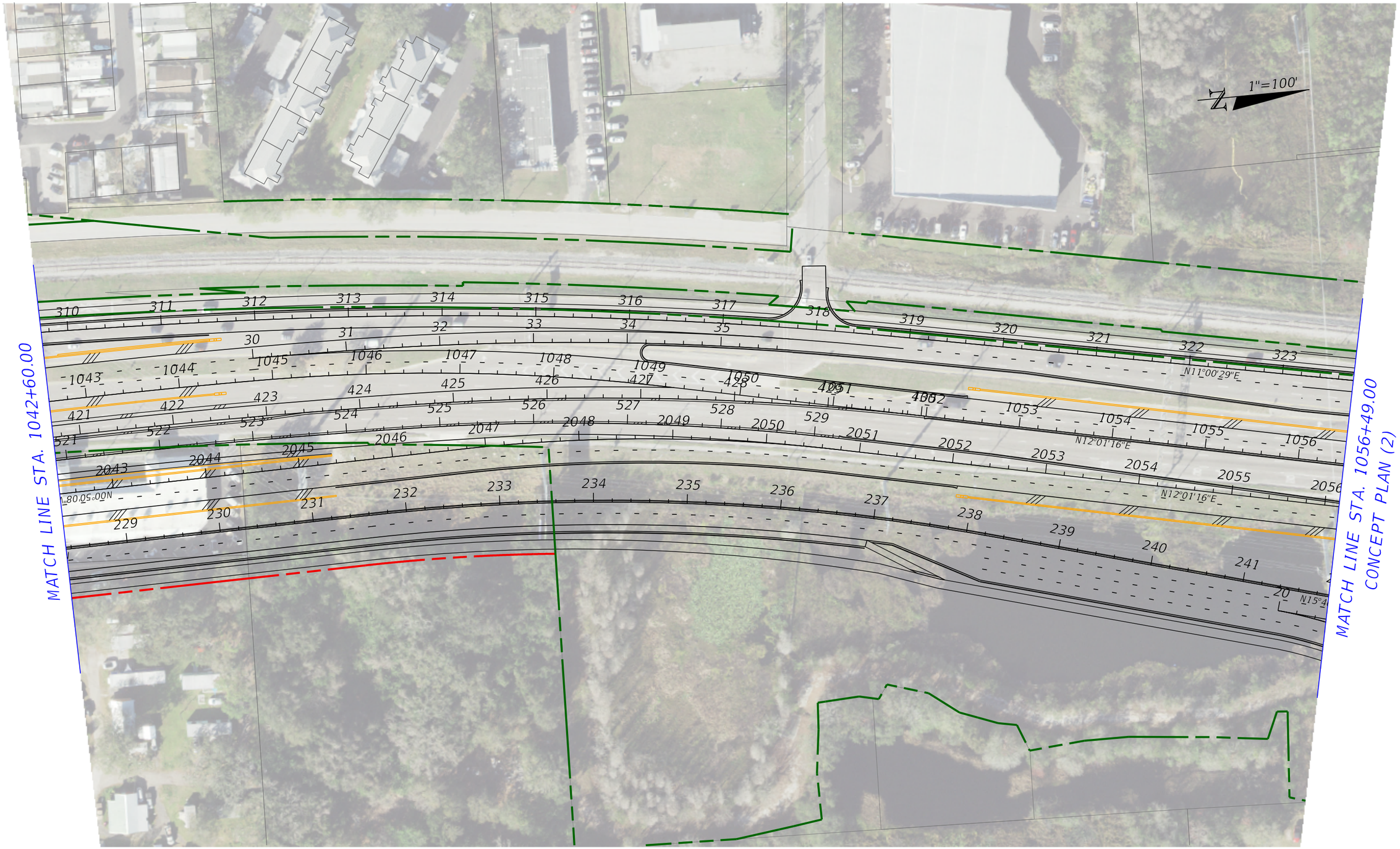

LEGEND

- PROPOSED R/W LINE
- EXISTING R/W LINE
- EXISTING PROPERTY LINE
- WETLAND LINE
- OSW LINE
- PROPOSED NOISE WALL
- EXIST. CSX RAILROAD
- PROPOSED ROADWAY
- PROPOSED MEDIAN
- PROPOSED SIDEWALK
- PROPOSED DRIVEWAY
- PROPOSED BRIDGE
- POND SITE
- PROPOSED GRADE SEPARATION
- FLOODPLAIN
- FPC SITE
- POTENTIAL CONTAMINATION SITE
- POTENTIAL RELOCATION "R" - RESIDENTIAL "B" - BUSINESS

ENGINEER OF RECORD

RICK LANGLASS, P.E.
LICENSE NUMBER: 62498
RS&H, INC.
1715 N WESTSHORE BLVD., SUITE 600
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 54	PASCO	419182-1-22-10

CONCEPT PLAN

US 41

SHEET NO.

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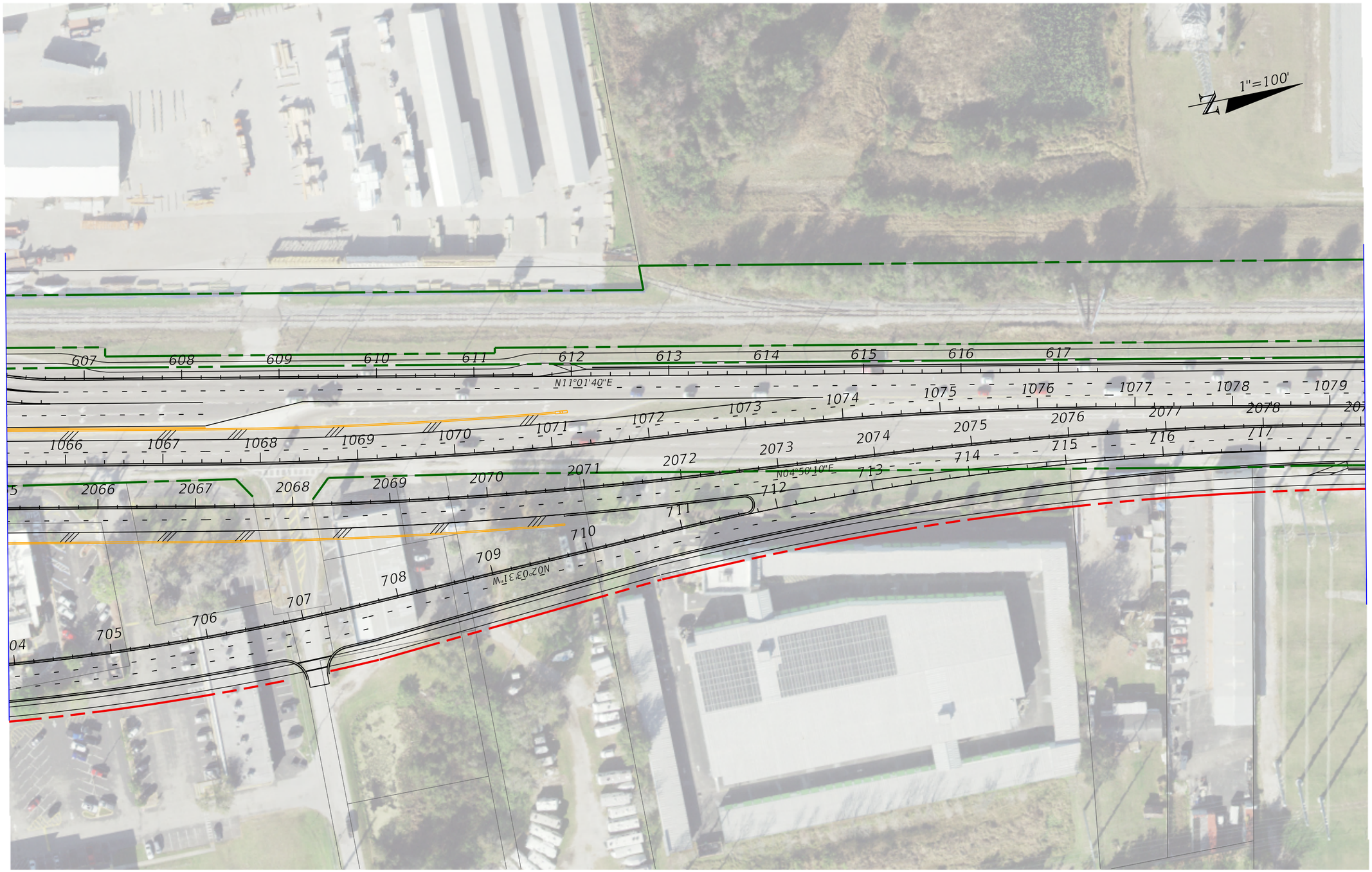

LEGEND

PROPOSED R/W LINE	PROPOSED ROADWAY	FLOODPLAIN
EXISTING R/W LINE	PROPOSED MEDIAN	FPC SITE
EXISTING PROPERTY LINE	PROPOSED SIDEWALK	POTENTIAL CONTAMINATION SITE
WETLAND LINE	PROPOSED DRIVEWAY	POTENTIAL RELOCATION
OSW LINE	PROPOSED BRIDGE	"R" - RESIDENTIAL
PROPOSED NOISE WALL	POND SITE	"B" - BUSINESS
EXIST. CSX RAILROAD	PROPOSED GRADE SEPARATION	

ENGINEER OF RECORD

RICK LANGLASS, P.E.
LICENSE NUMBER: 62498
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1715 N WESTSHORE BLVD., SUITE 600
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 54	PASCO	419182-1-22-10

CONCEPT PLAN

US 41

SHEET NO.

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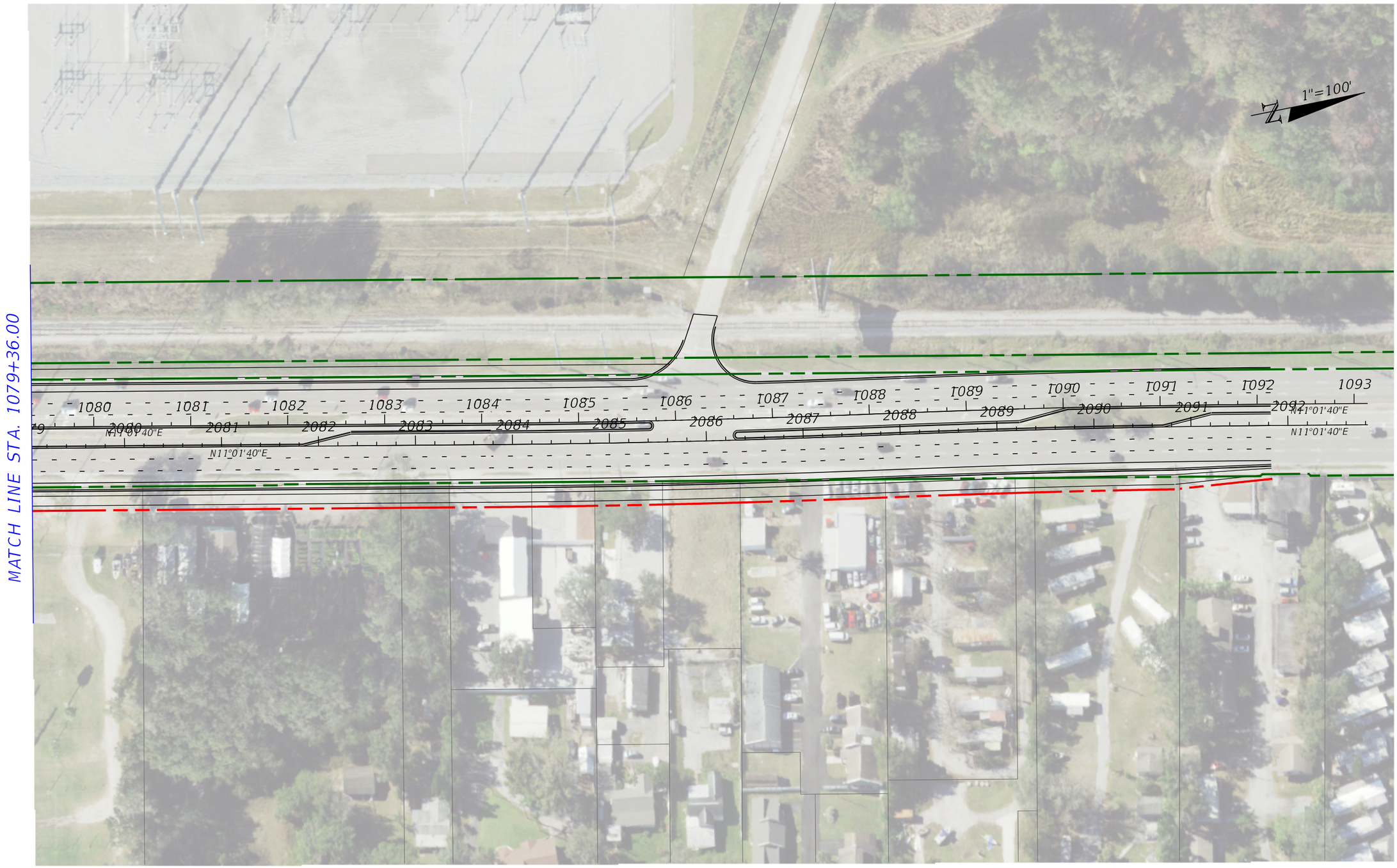

LEGEND

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- EXISTING PROPERTY LINE
- WETLAND LINE
- OSW LINE
- PROPOSED NOISE WALL
- EXIST. CSX RAILROAD
- PROPOSED ROADWAY
- PROPOSED MEDIAN
- PROPOSED SIDEWALK
- PROPOSED DRIVEWAY
- PROPOSED BRIDGE
- POND SITE
- PROPOSED GRADE SEPARATION
- FLOODPLAIN
- FPC SITE
- POTENTIAL CONTAMINATION SITE
- POTENTIAL RELOCATION "R" - RESIDENTIAL "B" - BUSINESS

ENGINEER OF RECORD

RICK LANGLASS, P.E.
LICENSE NUMBER: 62498
RS&H, INC.
1715 N WESTSHORE BLVD., SUITE 600
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 54	PASCO	419182-1-22-10

CONCEPT PLAN

US 41

SHEET NO.

F.AC NOTE

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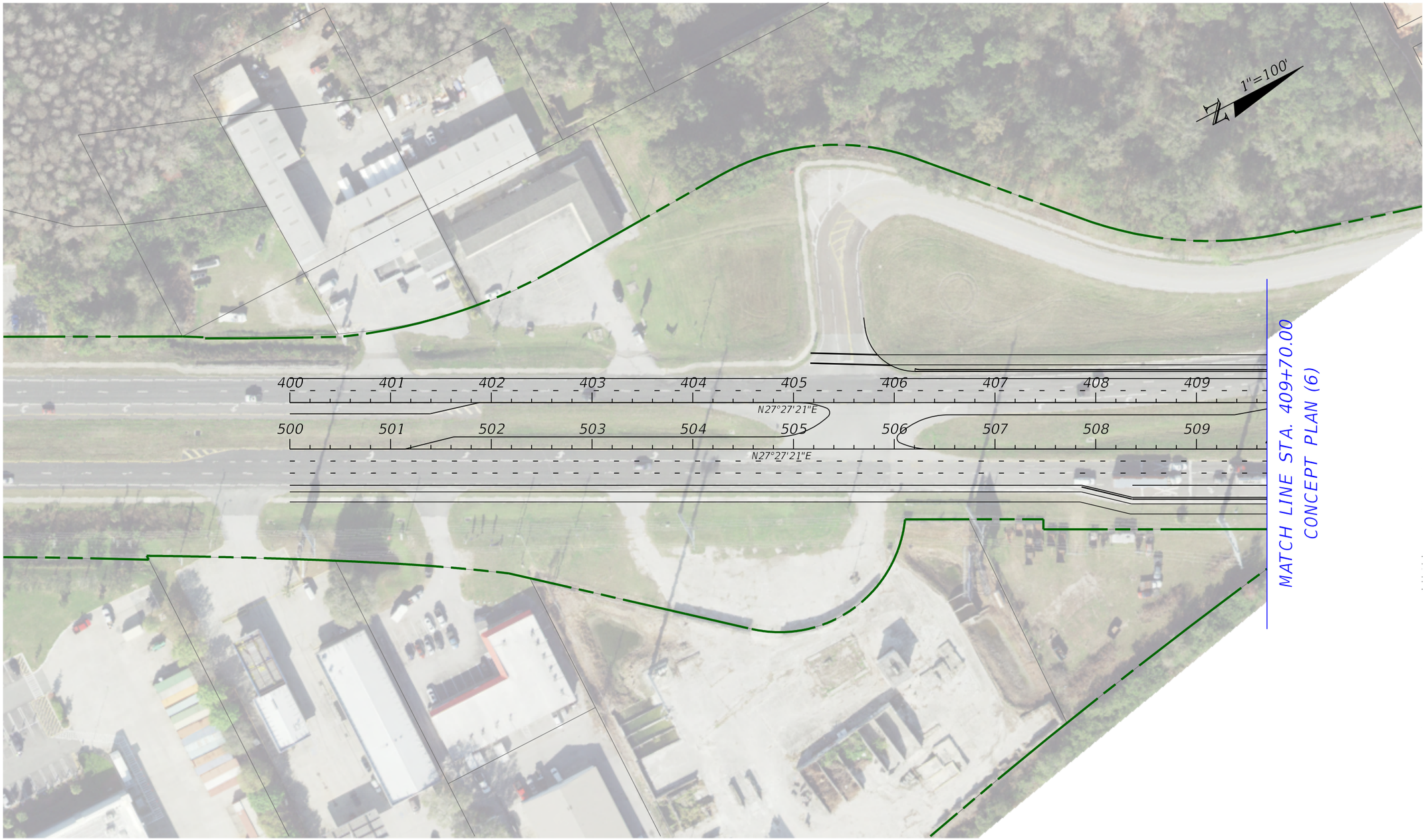

LEGEND

PROPOSED R/W LINE	PROPOSED ROADWAY	FLOODPLAIN
EXISTING R/W LINE	PROPOSED MEDIAN	FPC SITE
EXISTING PROPERTY LINE	PROPOSED SIDEWALK	POTENTIAL CONTAMINATION SITE
WETLAND LINE	PROPOSED DRIVEWAY	POTENTIAL RELOCATION
OSW LINE	PROPOSED BRIDGE	"R" - RESIDENTIAL
PROPOSED NOISE WALL	POND SITE	"B" - BUSINESS
EXIST. CSX RAILROAD	PROPOSED GRADE SEPARATION	

ENGINEER OF RECORD

RICK LANGLASS, P.E.
LICENSE NUMBER: 62498
RS&H, INC.
1715 N WESTSHORE BLVD., SUITE 600
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 54	PASCO	419182-1-22-10

CONCEPT PLAN

SR 597

SHEET NO.

FAC NOTE

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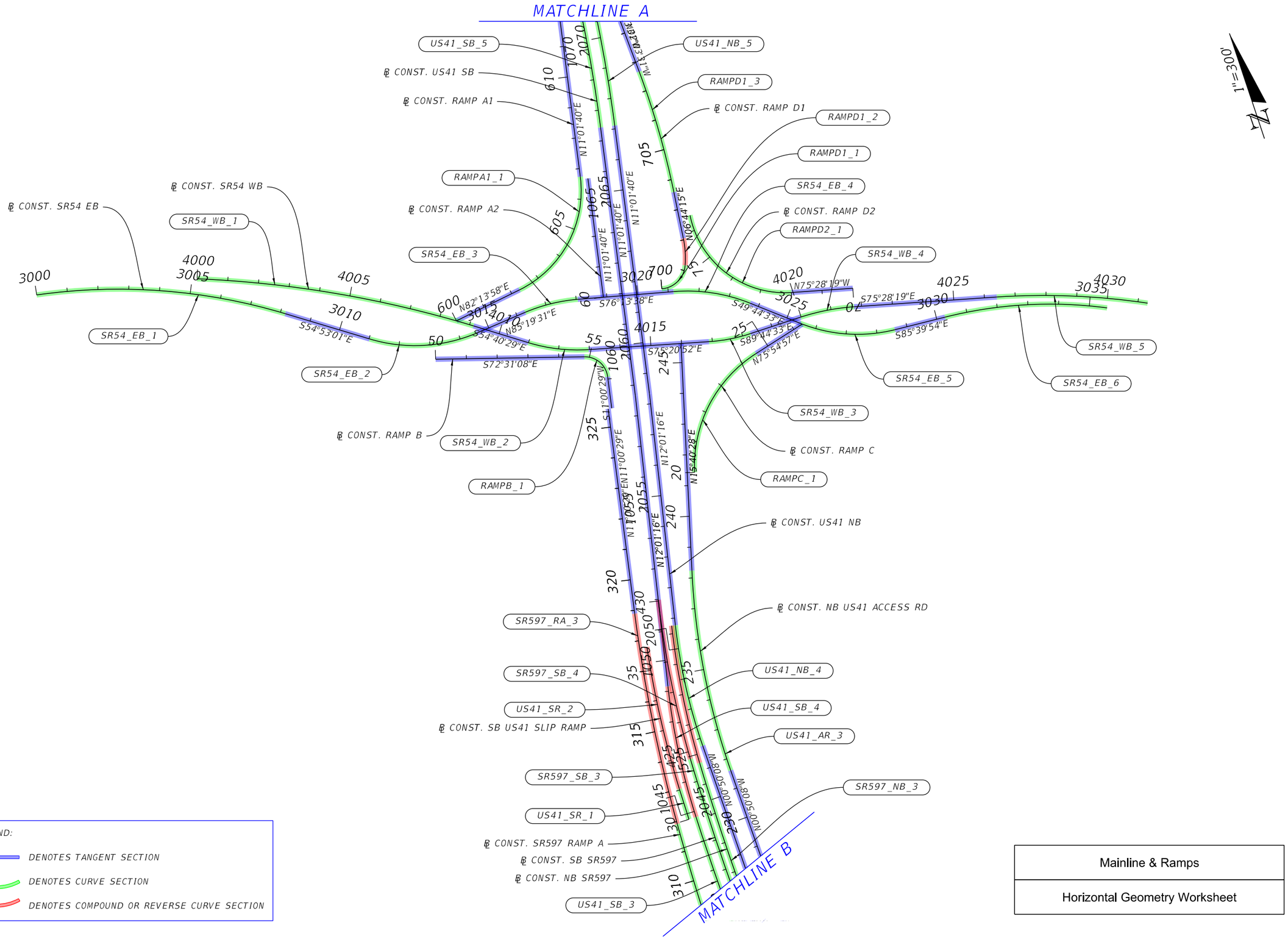

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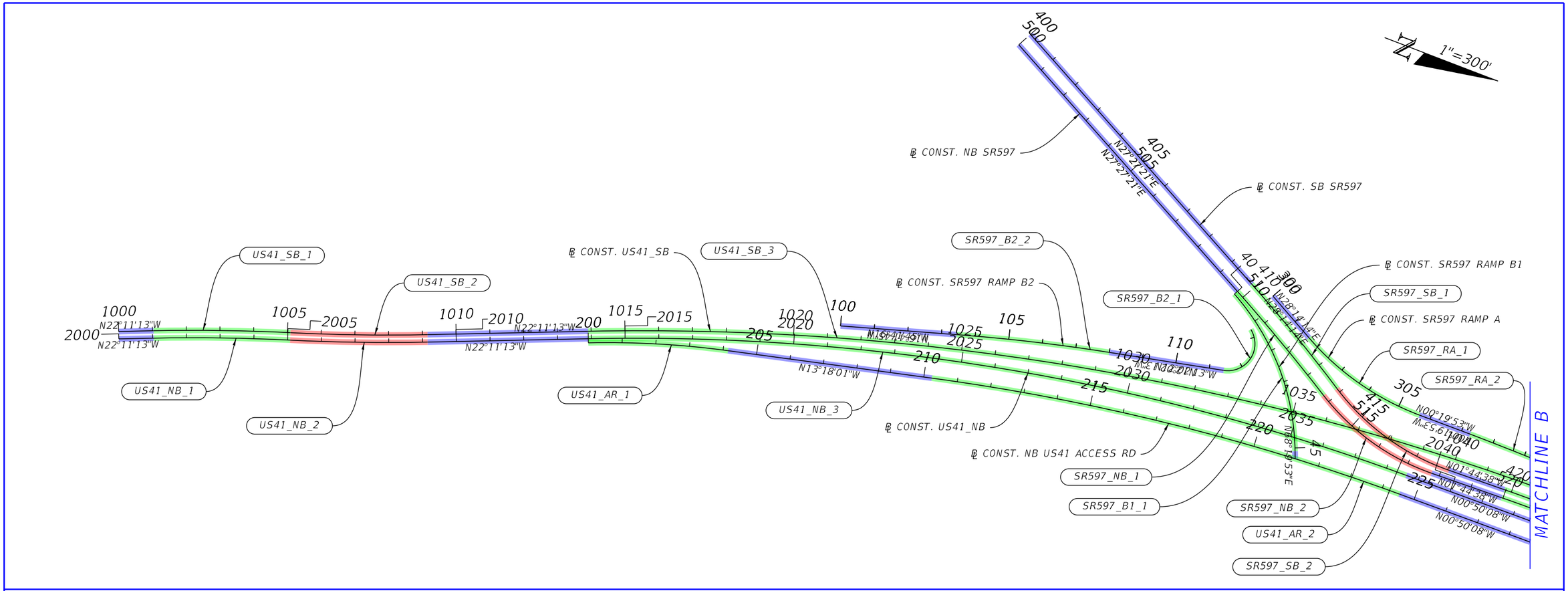
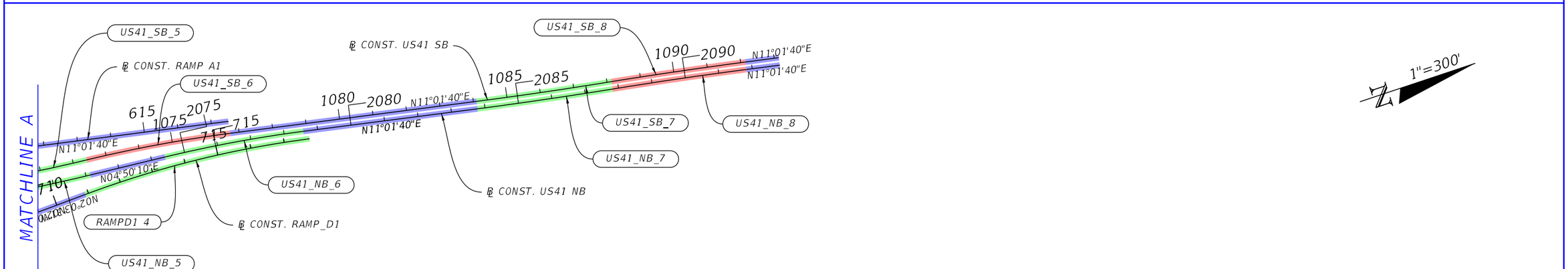
- DENOTES TANGENT SECTION
- DENOTES CURVE SECTION
- DENOTES COMPOUND OR REVERSE CURVE SECTION

Mainline & Ramps

Horizontal Geometry Worksheet





LEGEND:

- DENOTES TANGENT SECTION
- DENOTES CURVE SECTION
- DENOTES COMPOUND OR REVERSE CURVE SECTION

Mainline & Ramps
Horizontal Geometry Worksheet

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PI STA. = 4004+58.93
Δ = 14°27'30" (RT)
D = 01°35'01"
T = 458.93
L = 912.99
R = 3,618.00
PC STA. = 4000+00.00
PT STA. = 4009+12.99
e = NC
D.S. = 45 MPH

CURVE DATA SR54_WB_2
PI STA. = 4011+99.28
Δ = 20°40'24" (LT)
D = 10°27'20"
T = 99.95
L = 197.73
R = 548.00
PC STA. = 4010+99.33
PT STA. = 4012+97.05
e = RC
D.S. = 35 MPH

CURVE DATA SR54_WB_3
PI STA. = 4017+58.47
Δ = 14°23'41" (LT)
D = 10°27'20"
T = 69.20
L = 137.68
R = 548.00
PC STA. = 4016+89.27
PT STA. = 4018+26.94
e = RC
D.S. = 35 MPH

CURVE DATA SR54_WB_4
PI STA. = 4020+87.25
Δ = 14°16'14" (RT)
D = 08°02'50"
T = 89.13
L = 177.34
R = 712.00
PC STA. = 4019+98.12
PT STA. = 4021+75.46
e = NC
D.S. = 35 MPH

CURVE DATA SR54_WB_5
PI STA. = 4028+86.76
Δ = 12°25'38" (RT)
D = 02°31'51"
T = 246.49
L = 491.05
R = 2,264.00
PC STA. = 4026+40.27
PT STA. = 4031+31.32
e = NC
D.S. = 45 MPH

CURVE DATA SR54_EB_1
PI STA. = 3004+14.50
Δ = 24°48'58" (RT)
D = 03°02'28"
T = 414.50
L = 816.00
R = 1,884.00
PC STA. = 3000+00.00
PT STA. = 3008+16.00
e = NC
D.S. = 45 MPH

CURVE DATA SR54_EB_2
PI STA. = 3012+87.39
Δ = 39°47'28" (LT)
D = 11°11'26"
T = 185.30
L = 355.58
R = 512.00
PC STA. = 3011+02.09
PT STA. = 3014+57.67
e = RC
D.S. = 35 MPH

CURVE DATA SR54_EB_3
PI STA. = 3017+17.84
Δ = 18°26'51" (RT)
D = 10°27'20"
T = 88.99
L = 176.44
R = 548.00
PC STA. = 3016+28.85
PT STA. = 3018+05.29
e = NC
D.S. = 35 MPH

CURVE DATA SR54_EB_4
PI STA. = 3022+46.51
Δ = 26°29'04" (RT)
D = 10°27'20"
T = 128.96
L = 253.31
R = 548.00
PC STA. = 3021+17.55
PT STA. = 3023+70.86
e = RC
D.S. = 35 MPH

CURVE DATA SR54_EB_5
PI STA. = 3027+08.49
Δ = 35°55'21" (LT)
D = 11°27'33"
T = 162.09
L = 313.48
R = 500.00
PC STA. = 3025+46.41
PT STA. = 3028+59.89
e = NC
D.S. = 35 MPH

CURVE DATA SR54_EB_6
PI STA. = 3032+96.06
Δ = 21°41'33" (RT)
D = 04°05'33"
T = 268.23
L = 530.05
R = 1,400.00
PC STA. = 3030+27.83
PT STA. = 3035+57.87
e = NC
D.S. = 45 MPH

CURVE DATA US41_NB_1
PI STA. = 2003+05.63
Δ = 04°00'43" (RT)
D = 00°59'30"
T = 202.38
L = 404.59
R = 5,778.00
PC STA. = 2001+03.25
PT STA. = 2005+07.84
e = NC
D.S. = 45 MPH

CURVE DATA US41_NB_2
PI STA. = 2007+11.76
Δ = 04°00'44" (LT)
D = 00°59'03"
T = 203.92
L = 407.68
R = 5,822.00
PC STA. = 2005+07.84
PT STA. = 2009+15.52
e = NC
D.S. = 45 MPH

CURVE DATA US41_NB_3
PI STA. = 2026+40.97
Δ = 21°21'05" (RT)
D = 00°51'51"
T = 1,249.84
L = 2,470.68
R = 6,630.00
PC STA. = 2013+91.14
PT STA. = 2038+61.81
e = NC
D.S. = 45 MPH

CURVE DATA US41_NB_4
PI STA. = 2048+76.47
Δ = 12°51'24" (RT)
D = 03°12'03"
T = 201.68
L = 401.66
R = 1,790.00
PC STA. = 2046+74.79
PT STA. = 2050+76.45
e = RC
D.S. = 45 MPH

CURVE DATA US41_NB_5
PI STA. = 2069+62.07
Δ = 06°11'30" (LT)
D = 01°14'00"
T = 251.28
L = 502.07
R = 4,646.00
PC STA. = 2067+10.79
PT STA. = 2072+12.86
e = NC
D.S. = 45 MPH

CURVE DATA US41_NB_6
PI STA. = 2076+49.24
Δ = 06°11'30" (RT)
D = 01°29'18"
T = 208.23
L = 416.05
R = 3,850.00
PC STA. = 2074+41.01
PT STA. = 2078+57.06
e = NC
D.S. = 45 MPH

CURVE DATA US41_NB_7
PI STA. = 2085+80.11
Δ = 01°50'36" (LT)
D = 00°27'22"
T = 202.03
L = 404.02
R = 12,558.00
PC STA. = 2083+78.08
PT STA. = 2087+82.10
e = NC
D.S. = 45 MPH

CURVE DATA US41_NB_8
PI STA. = 2089+82.26
Δ = 01°50'36" (RT)
D = 00°27'38"
T = 200.16
L = 400.29
R = 12,442.00
PC STA. = 2087+82.10
PT STA. = 2091+82.39
e = NC
D.S. = 45 MPH

CURVE DATA US41_SB_1
PI STA. = 1003+06.40
Δ = 04°00'43" (RT)
D = 00°59'16"
T = 203.15
L = 406.13
R = 5,800.00
PC STA. = 1001+03.25
PT STA. = 1005+09.38
e = NC
D.S. = 45 MPH

CURVE DATA US41_SB_2
PI STA. = 1007+12.53
Δ = 04°00'44" (LT)
D = 00°59'16"
T = 203.15
L = 406.14
R = 5,800.00
PC STA. = 1005+09.38
PT STA. = 1009+15.52
e = NC
D.S. = 45 MPH

CURVE DATA US41_SB_3
PI STA. = 1029+56.69
Δ = 22°45'19" (RT)
D = 00°44'11"
T = 1,565.56
L = 3,089.85
R = 7,780.00
PC STA. = 1013+91.14
PT STA. = 1044+80.99
e = NC
D.S. = 45 MPH

CURVE DATA US41_SB_4
PI STA. = 1046+99.19
Δ = 11°27'10" (RT)
D = 02°37'59"
T = 218.21
L = 434.96
R = 2,176.00
PC STA. = 1044+80.99
PT STA. = 1049+15.95
e = NC
D.S. = 45 MPH

CURVE DATA US41_SB_5
PI STA. = 1069+92.49
Δ = 06°11'30" (LT)
D = 01°14'44"
T = 248.79
L = 497.10
R = 4,600.00
PC STA. = 1067+43.70
PT STA. = 1072+40.80
e = NC
D.S. = 45 MPH

CURVE DATA US41_SB_6
PI STA. = 1074+57.14
Δ = 06°11'30" (RT)
D = 01°25'57"
T = 216.34
L = 432.26
R = 4,000.00
PC STA. = 1072+40.80
PT STA. = 1076+73.06
e = NC
D.S. = 45 MPH

CURVE DATA US41_SB_7
PI STA. = 1086+11.35
Δ = 01°50'36" (LT)
D = 00°27'25"
T = 201.68
L = 403.32
R = 12,536.00
PC STA. = 1084+09.67
PT STA. = 1088+12.99
e = NC
D.S. = 45 MPH

CURVE DATA US41_SB_8
PI STA. = 1090+13.51
Δ = 01°50'36" (RT)
D = 00°27'35"
T = 200.52
L = 401.00
R = 12,464.00
PC STA. = 1088+12.99
PT STA. = 1092+13.99
e = NC
D.S. = 45 MPH

CURVE DATA RAMPA1_1
PI STA. = 604+85.02
Δ = 71°12'18" (LT)
D = 16°00'16"
T = 256.33
L = 444.91
R = 358.00
PC STA. = 602+28.70
PT STA. = 606+73.60
e = 0.027
D.S. = 30 MPH

CURVE DATA RAMPB_1
PI STA. = 55+50.52
Δ = 83°31'37" (RT)
D = 76°23'40"
T = 66.97
L = 109.34
R = 75.00
PC STA. = 54+83.55
PT STA. = 55+92.88
e = NC
D.S. = 10 MPH

CURVE DATA RAMPC_1
PI STA. = 22+51.10
Δ = 60°13'08" (RT)
D = 13°13'56"
T = 251.10
L = 455.09
R = 433.00
PC STA. = 20+00.00
PT STA. = 24+55.09
e = RC
D.S. = 30 MPH

CURVE DATA RAMPD2_1
PI STA. = 74+74.34
Δ = 82°12'34" (RT)
D = 18°11'21"
T = 274.84
L = 451.97
R = 315.00
PC STA. = 71+99.50
PT STA. = 76+51.47
e = 0.039
D.S. = 30 MPH

CURVE DATA RAMPD1_1
PI STA. = 700+71.01
Δ = 81°06'03" (LT)
D = 69°01'52"
T = 71.01
L = 117.48
R = 83.00
PC STA. = 700+00.00
PT STA. = 701+17.48
e = NC
D.S. = 10 MPH

CURVE DATA RAMPD1_2
PI STA. = 701+61.57
Δ = 15°56'05" (LT)
D = 18°11'21"
T = 44.09
L = 87.61
R = 315.00
PC STA. = 701+17.48
PT STA. = 702+05.09
e = NC
D.S. = 10 MPH

CURVE DATA RAMPD1_3
PI STA. = 705+62.88
Δ = 08°47'45" (LT)
D = 02°09'44"
T = 203.81
L = 406.82
R = 2,650.00
PC STA. = 703+59.07
PT STA. = 707+65.90
e = NC
D.S. = 30 MPH

CURVE DATA RAMPD1_4
PI STA. = 714+34.93
Δ = 13°05'11" (RT)
D = 01°54'35"
T = 344.10
L = 685.20
R = 3,000.00
PC STA. = 710+90.83
PT STA. = 717+76.03
e = NC
D.S. = 45 MPH

CURVE DATA SR597_SB_1
PI STA. = 411+88.05
Δ = 04°35'03" (RT)
D = 01°08'45"
T = 200.13
L = 400.04
R = 5,000.00
PC STA. = 409+87.93
PT STA. = 413+87.97
e = NC
D.S. = 45 MPH

CURVE DATA SR597_SB_2
PI STA. = 416+02.36
Δ = 33°47'02" (LT)
D = 08°06'56"
T = 214.39
L = 416.29
R = 706.00
PC STA. = 413+87.97
PT STA. = 418+04.26
e = 0.047
D.S. = 45 MPH

CURVE DATA SR597_SB_3
PI STA. = 422+27.13
Δ = 03°40'51" (RT)
D = 00°44'24"
T = 248.76
L = 497.34
R = 7,741.67
PC STA. = 419+78.37
PT STA. = 424+75.72
e = NC
D.S. = 45 MPH

CURVE DATA SR597_SB_4
PI STA. = 427+40.40
Δ = 10°05'03" (RT)
D = 01°54'35"
T = 264.69
L = 528.01
R = 3,000.00
PC STA. = 424+75.72
PT STA. = 430+03.72
e = NC
D.S. = 45 MPH

CURVE DATA SR597_NB_1
PI STA. = 511+76.05
Δ = 03°49'36" (RT)
D = 00°57'23"
T = 200.10
L = 400.06
R = 5,990.00
PC STA. = 509+75.95
PT STA. = 513+76.01
e = NC
D.S. = 45 MPH

CURVE DATA SR597_NB_2
PI STA. = 515+81.75
Δ = 33°01'35" (LT)
D = 08°15'21"
T = 205.75
L = 400.04
R = 694.00
PC STA. = 513+76.01
PT STA. = 517+76.04
e = 0.050
D.S. = 45 MPH

CURVE DATA SR597_NB_3
PI STA. = 522+33.81
Δ = 03°31'51" (RT)
D = 00°44'33"
T = 237.84
L = 475.53
R = 7,716.67
PC STA. = 519+95.98
PT STA. = 524+71.50
e = NC
D.S. = 45 MPH

CURVE DATA SR597_NB_4
PI STA. = 526+99.54
Δ = 10°13'56" (RT)
D = 02°14'58"
T = 228.04
L = 454.86
R = 2,547.00
PC STA. = 524+71.50
PT STA. = 529+26.36
e = NC
D.S. = 45 MPH

CURVE DATA SR597_RA_1
PI STA. = 303+69.14
Δ = 28°34'08" (LT)
D = 07°04'25"
T = 206.23
L = 403.88
R = 810.00
PC STA. = 301+62.91
PT STA. = 305+66.79
e = 0.031
D.S. = 45 MPH

CURVE DATA SR597_RA_2
PI STA. = 309+59.27
Δ = 03°17'18" (RT)
D = 00°42'29"
T = 232.30
L = 464.47
R = 8,093.00
PC STA. = 307+26.97
PT STA. = 311+91.44
e = NC
D.S. = 45 MPH

CURVE DATA SR597_RA_3
PI STA. = 315+41.06
Δ = 08°03'04" (RT)
D = 01°09'12"
T = 349.63
L = 698.10
R = 4,968.00
PC STA. = 311+91.44
PT STA. = 318+89.54
e = NC
D.S. = 45 MPH

CURVE DATA US41_AR_1
PI STA. = 202+07.87
Δ = 08°53'12" (RT)
D = 02°08'31"
T = 207.87
L = 414.90
R = 2,675.00
PC STA. = 200+00.00
PT STA. = 204+14.90
e = NC
D.S. = 45 MPH

CURVE DATA US41_AR_2
PI STA. = 217+41.57
Δ = 12°27'53" (RT)
D = 00°52'19"
T = 717.55
L = 1,429.44
R = 6,570.67
PC STA. = 210+24.02
PT STA. = 224+53.46
e = NC
D.S. = 45 MPH

CURVE DATA US41_AR_3
PI STA. = 234+94.48
Δ = 16°30'37" (RT)
D = 02°29'28"
T = 333.69
L = 662.76
R = 2,300.00
PC STA. = 231+60.78
PT STA. = 238+23.54
e = NC
D.S. = 45 MPH

CURVE DATA SR597_B1_1
PI STA. = 42+66.36
Δ = 40°51'50" (RT)
D = 08°00'48"
T = 266.36
L = 509.94
R = 715.00
PC STA. = 40+00.00
PT STA. = 45+09.94
e = RC
D.S. = 40 MPH

CURVE DATA SR597_B2_1
PI STA. = 105+72.43
Δ = 04°39'33" (RT)
D = 01°01'23"
T = 227.81
L = 455.37
R = 5,600.00
PC STA. = 103+44.62
PT STA. = 107+99.98
e = NC
D.S. = 45 MPH

CURVE DATA SR597_B2_2
PI STA. = 113+18.95
Δ = 131°02'07" (LT)
D = 71°37'11"
T = 175.69
L = 182.96
R = 80.00
PC STA. = 111+43.26
PT STA. = 113+26.22
e = NC
D.S. = 10 MPH

CURVE DATA US41_SR_1
PI STA. = 30+51.82
Δ = 00°45'39" (RT)
D = 00°44'03"
T = 51.82
L = 103.64
R = 7,804.00
PC STA. = 30+00.00
PT STA. = 31+03.64
e = NC
D.S. = 45 MPH

CURVE DATA US41_SR_2
PI STA. = 33+40.67
Δ = 08°22'24" (RT)
D = 01°46'10"
T = 237.03
L = 473.21
R = 3,238.00
PC STA. = 31+03.64
PT STA. = 35+76.85
e = NC
D.S. = 45 MPH

Curve Data

Horizontal Geometry Worksheet