



CENTRAL
FLORIDA
EXPRESSWAY
AUTHORITY

CFX Industry Forum

July 19, 2022



Engineering Overview

David Falk, P.E. – Engineering Project Manager

FY 2023-2027 Work Plan

Project Cost Summary (\$000's) Category	Fiscal Year					Totals
	2023	2024	2025	2026	2027	
Existing System Improvements	453,933	303,515	182,331	116,036	62,138	1,117,953
System Expansion Projects	76,007	313,884	551,582	747,958	644,941	2,334,372
Interchange Projects	11,743	28,891	47,408	71,840	80,070	239,952
Facilities Projects	15,023	14,278	18,949	10,210	8,850	67,310
Transportation Technology Projects	10,506	17,943	3,743	1,291	4,471	37,954
Information Technology Projects	29,050	10,206	13,203	2,420	2,420	57,299
Signing and Pavement Markings	9,570	13,087	2,011	4,211	2,529	31,408
Renewal and Replacement Projects	30,101	31,898	12,983	21,930	34,059	130,971
Landscape Projects	80	1,463	1,418	109	1,478	4,548
Non-System Projects	24	350	252	3,104	171	3,901
TOTALS	636,037	735,515	833,880	979,109	841,127	4,025,668

Upcoming Design Projects

SR 534

- SR 534 Segments 2, 2A

SR 414 Expressway Extension

- US 441 to SR 434

SR 408 Widenings

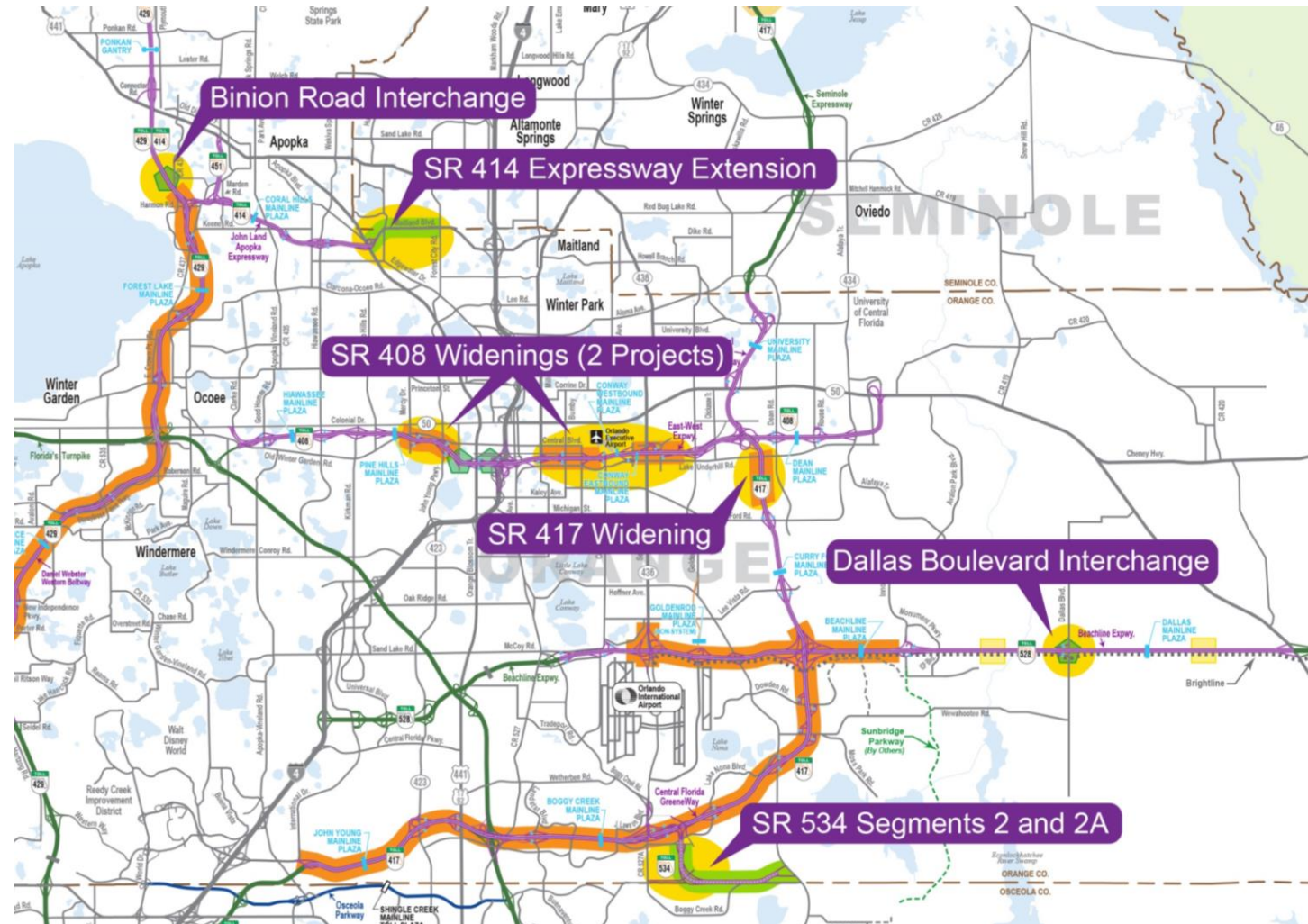
- Mills Avenue to Bumby Avenue
- SR 436 to Goldenrod Road (WB)

SR 417 Widening

- Curry Ford Road to Lake Underhill Road

Interchange Projects

- SR 429 – Binion Road
- SR 528 – Dallas Boulevard



SR 534 – Segment 2 – 534-242

Laureate Boulevard to East of Simpson Road

2.2 Miles

- New Expressway

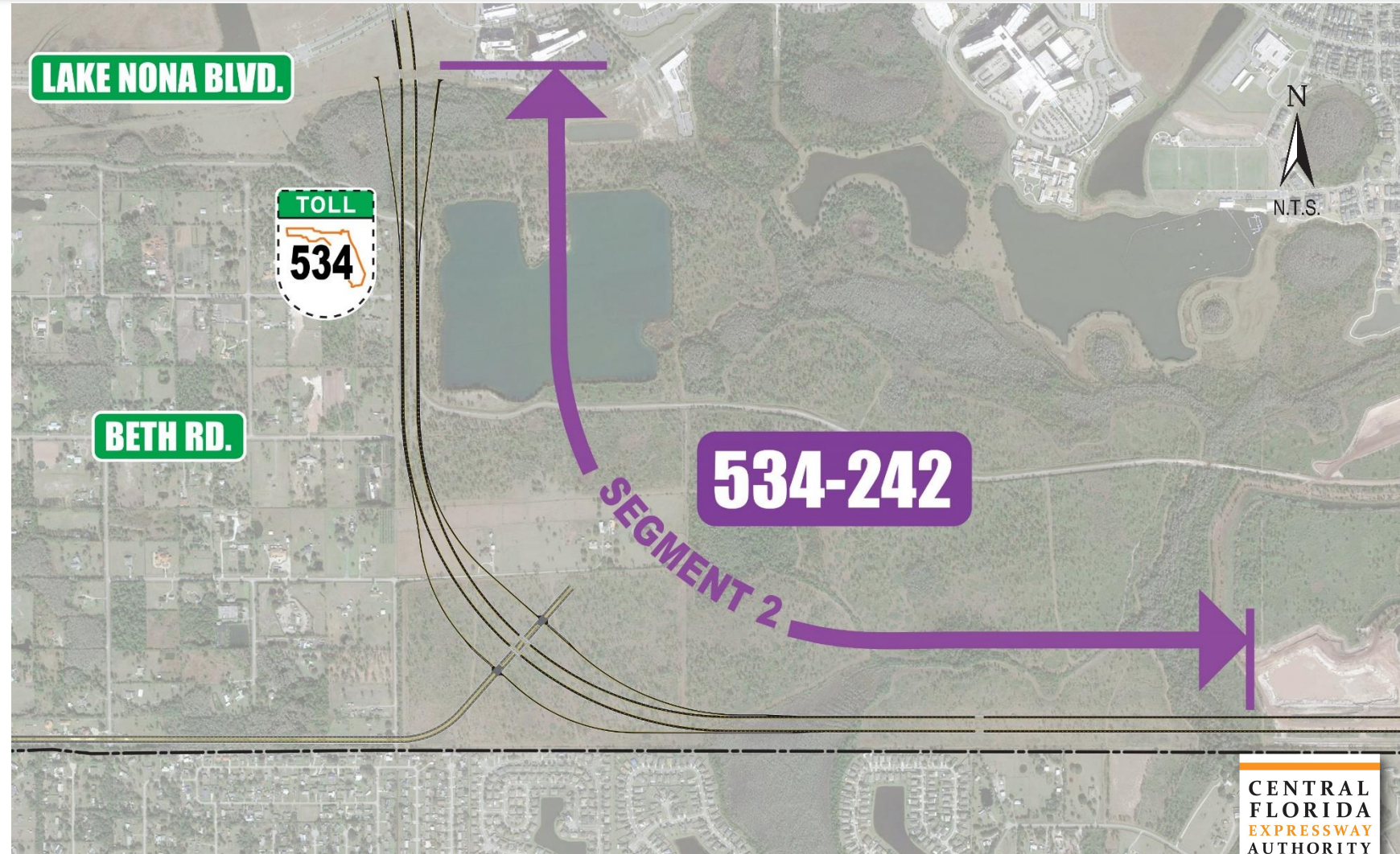
Advertisement

- August 2022

Design Fee Estimate

- \$6.4 Million

Calendar year quarters (dates subject to change)



SR 534 – Segment 2A – 534-242A

Simpson Road Extension

1.4 Miles

- Divided Urban Roadway

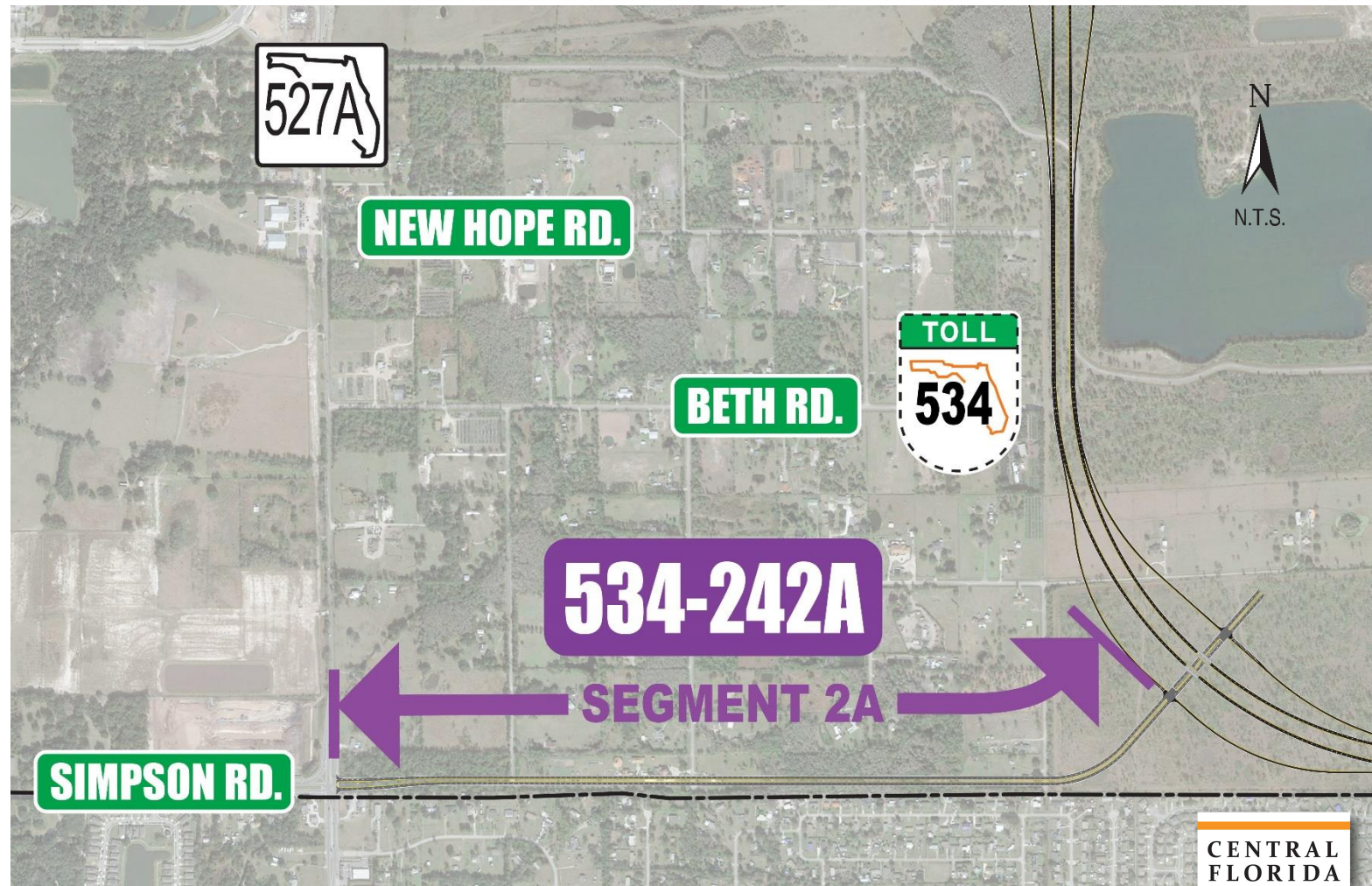
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- 4th Quarter 2022 (SSBE)

Design Fee Estimate

- \$1.9 Million

Calendar year quarters (dates subject to change)



SR 414 Expressway – 414-208

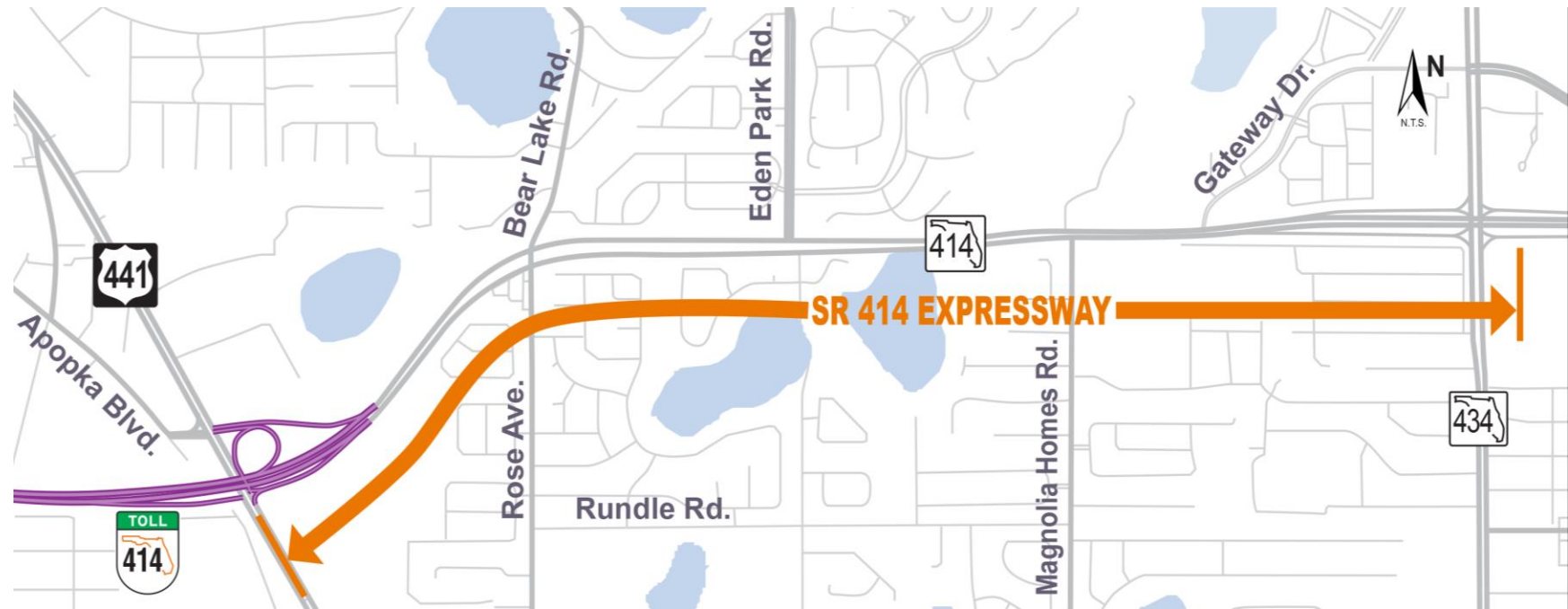
US 441 to SR 434

Refining FDOT Section Advertisement

- 4th Quarter 2022

Design Fee Estimate

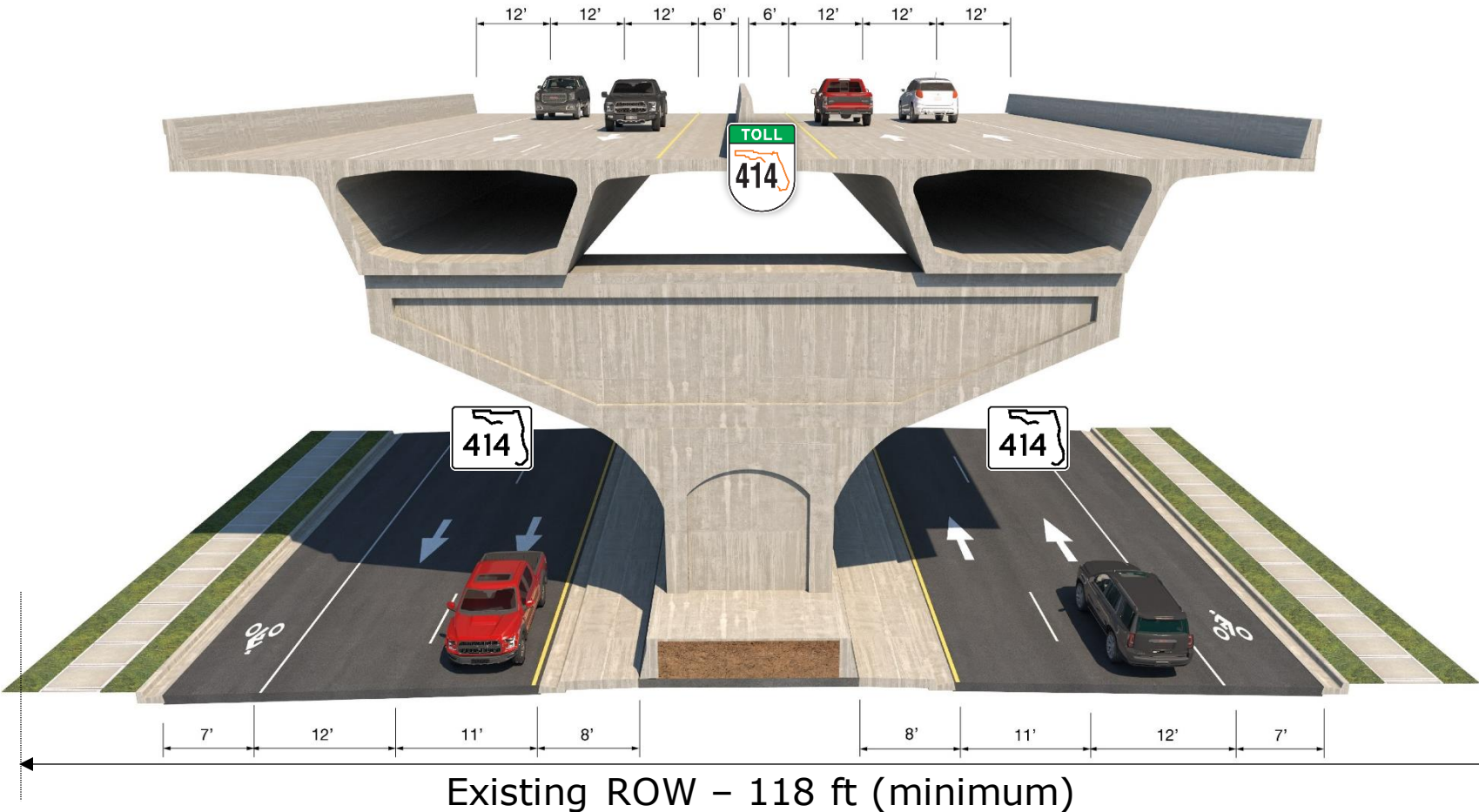
- \$27.4 Million



SR 414 Expressway – 414-208

US 441 to SR 434

Expressway Height = 32 ft-45 ft



Typical Section

- PD&E
Recommended
Alternative
- Segmental Bridge
- Four 12' Lanes w/
12' Shoulders

SR 408 Widening – 408-175

I-4 to Bumby Avenue & West of SR 436 to Goldenrod Road WB

Planning Phase Now

- WB Direction Only

Design Fee Estimate

- \$2.3 Million

Advertisement

- 1st Quarter 2023



Calendar year quarters (dates subject to change)

SR 408 Widening – 408-174

West of Pine Hills Plaza to East of Church Street EB

Planning Phase Now

- Studying both directions

Advertisement

- 2nd Quarter 2023

Design Fee Estimate

- \$3.7 Million
- EB Widening Only



SR 417 Widening – 417-178

Curry Ford Road to Lake Underhill Road

Planning Phase

- 4th Quarter 2022

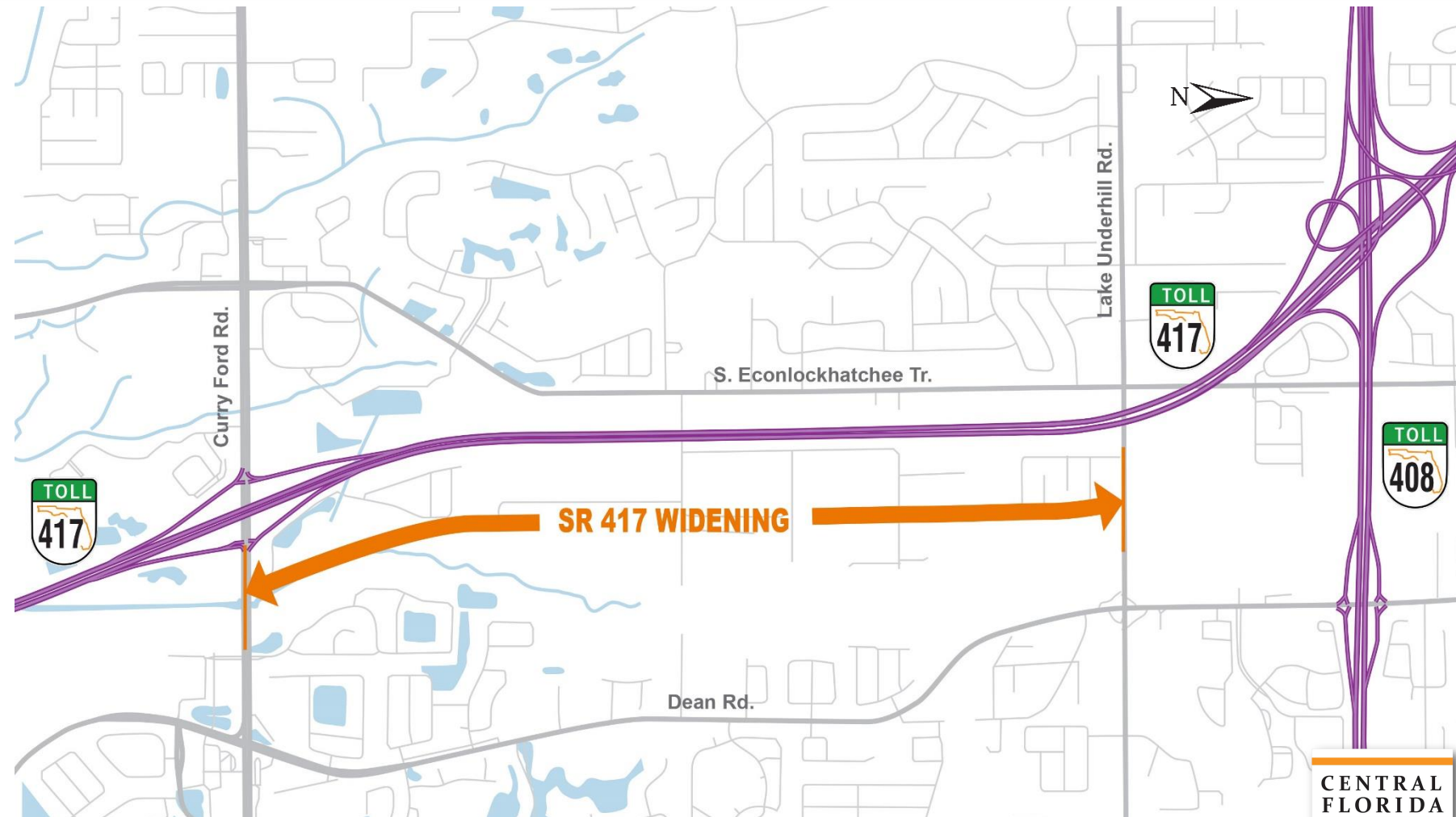
Advertisement

- 1st Quarter 2023

Design Fee Estimate

- \$3.2 Million

Calendar year quarters (dates subject to change)



SR 429 & Binion Road Interchange – 429-309

North of Binion Road Bridge to South of Lust Road Bridge

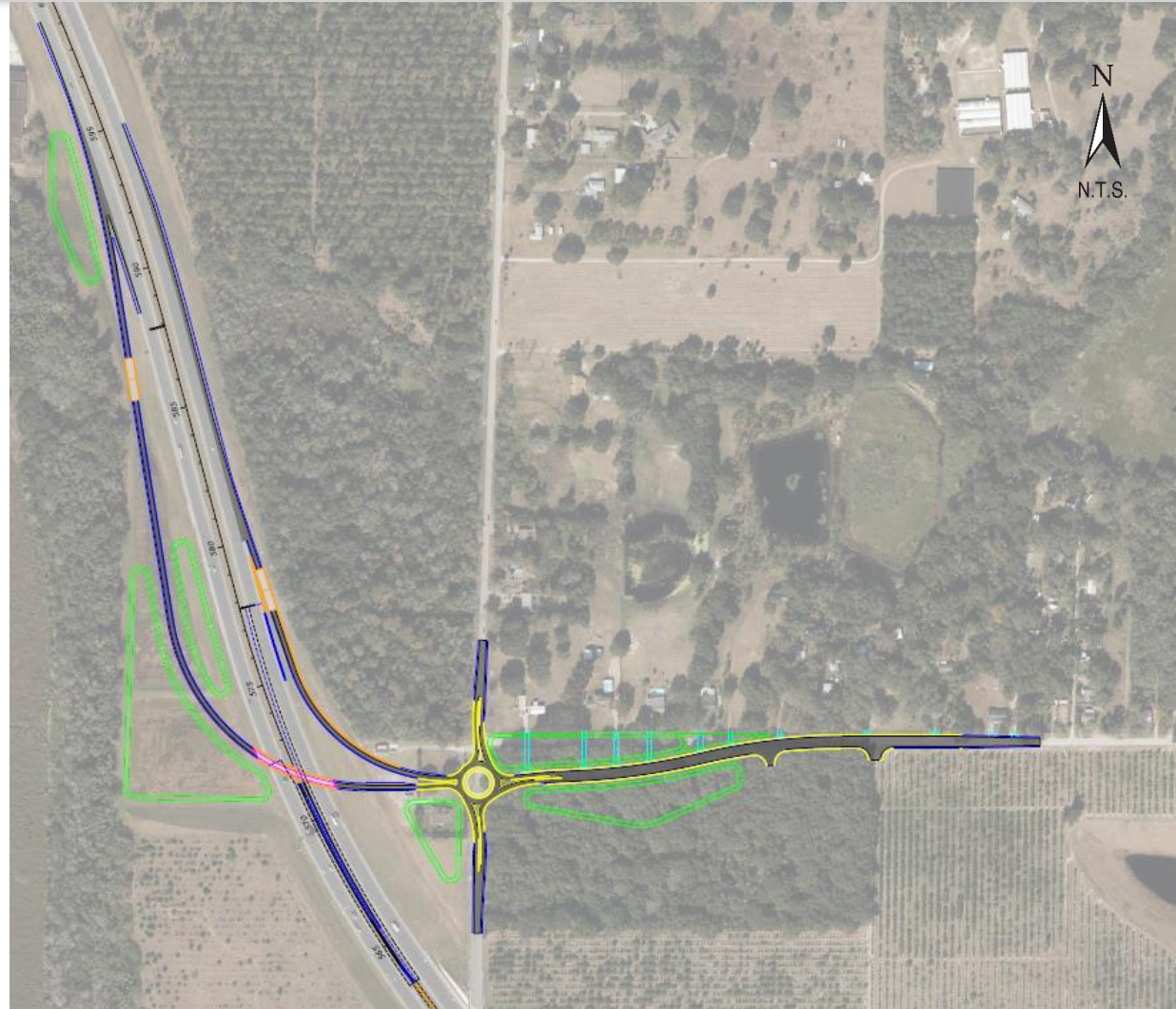
Planning Phase Now
Advertisement

- 1st Quarter 2023

Design Fee Estimate

- \$1.9 Million

Calendar year quarters (dates subject to change)



SR 528 & Dallas Boulevard Interchange – 528-307

East of Econ River Bridge to East of Dallas Boulevard

Planning Phase

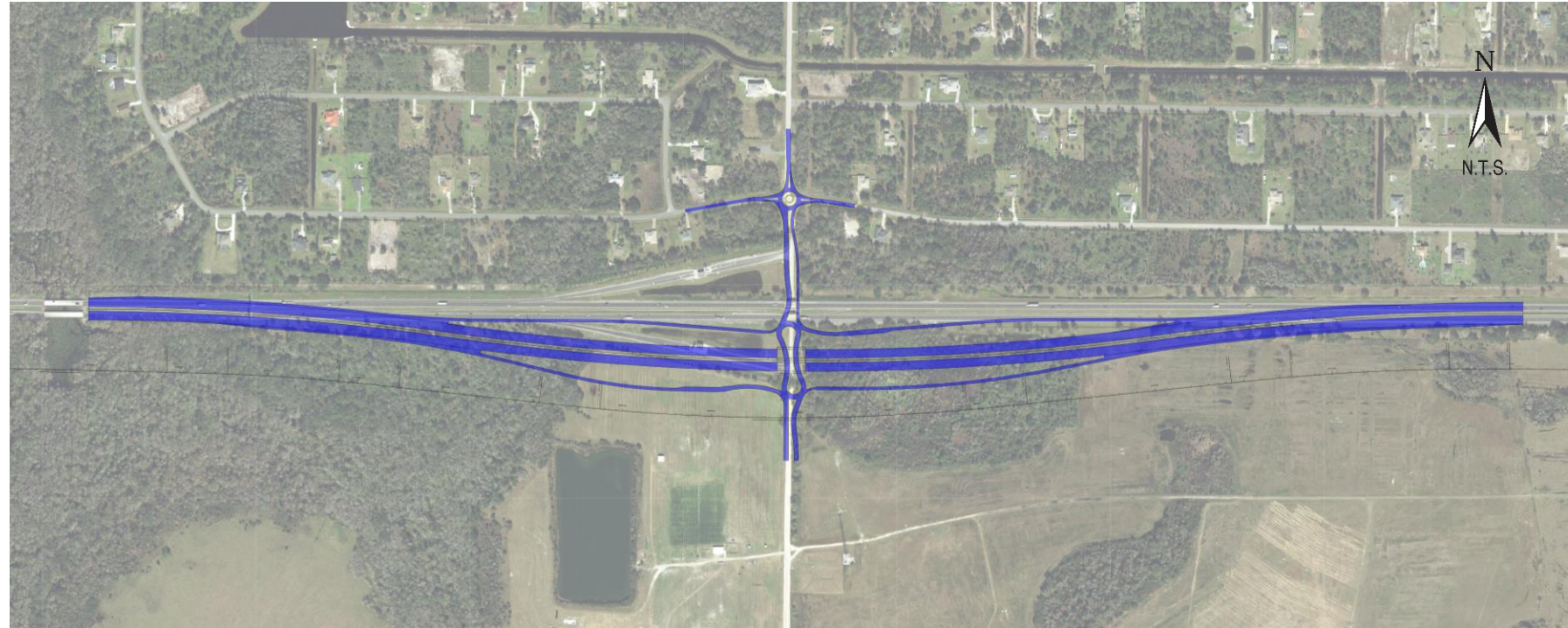
- 4th Quarter 2022

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- 2nd Quarter 2023

Design Fee Estimate

- \$5.1 Million



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Questions?



David Falk, P.E.

CFX Engineering Project Manager

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Transportation Technology Overview

Dana Chester, P.E. – Director of Engineering



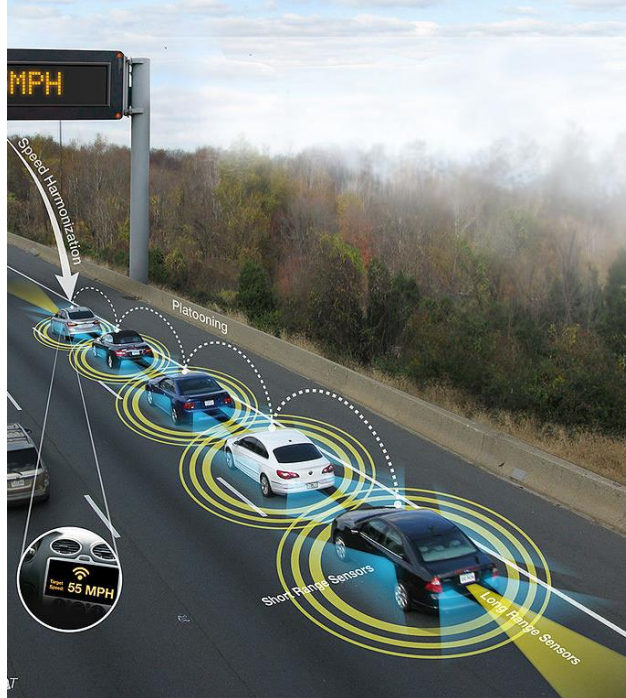
Current ITS Assets

- 284 CCTV Cameras
- 189 Data Collection Sensors (DCS)
- 445 Traffic Monitoring Stations (TMS)
- 50 Three Line Dynamic Message Signs (DMS)
- 52 Toll Plaza Dynamic Message Signs (DMS)
- 27 Arterial Dynamic Message Signs (DMS)
- 2 Toll Booth Dynamic Message Signs (DMS)
- 65 Wrong Way Driving (WWD) Detection Stations
- Over 500 miles of Fiber Optic Cable



Sustainability Projects FY 2023-2027 Work Plan

- Six Solar Deployment (PV) Projects
- Includes Solar Deployment Projects at Eight Toll Plaza Facilities
- SR 516 Sustainability Project
- Total capital investment estimated at \$11.4M



Transportation Technology FY 2023-2027 Work Plan

- **Construction**
 - DMS Replacement Project
 - Video Wall Replacement
- **Design & Construction**
 - Wrong Way Driving Deployment Project
 - Wrong Way Driving Upgrades Project
 - Connected Vehicle Projects
 - Remote TMS Upgrades Project
- **Implementation & Installation**
 - Lifecycle Equipment Replacements
 - Advanced Expressway Operations Performance Measures
 - Fiber Installation



Questions?



Dana Chester, P.E.

CFX Director of Engineering

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Dana.Chester@cfxway.com



Construction Overview

Jack Burch, P.E.- Resident Engineer/Construction Manager

CEI Qualifications

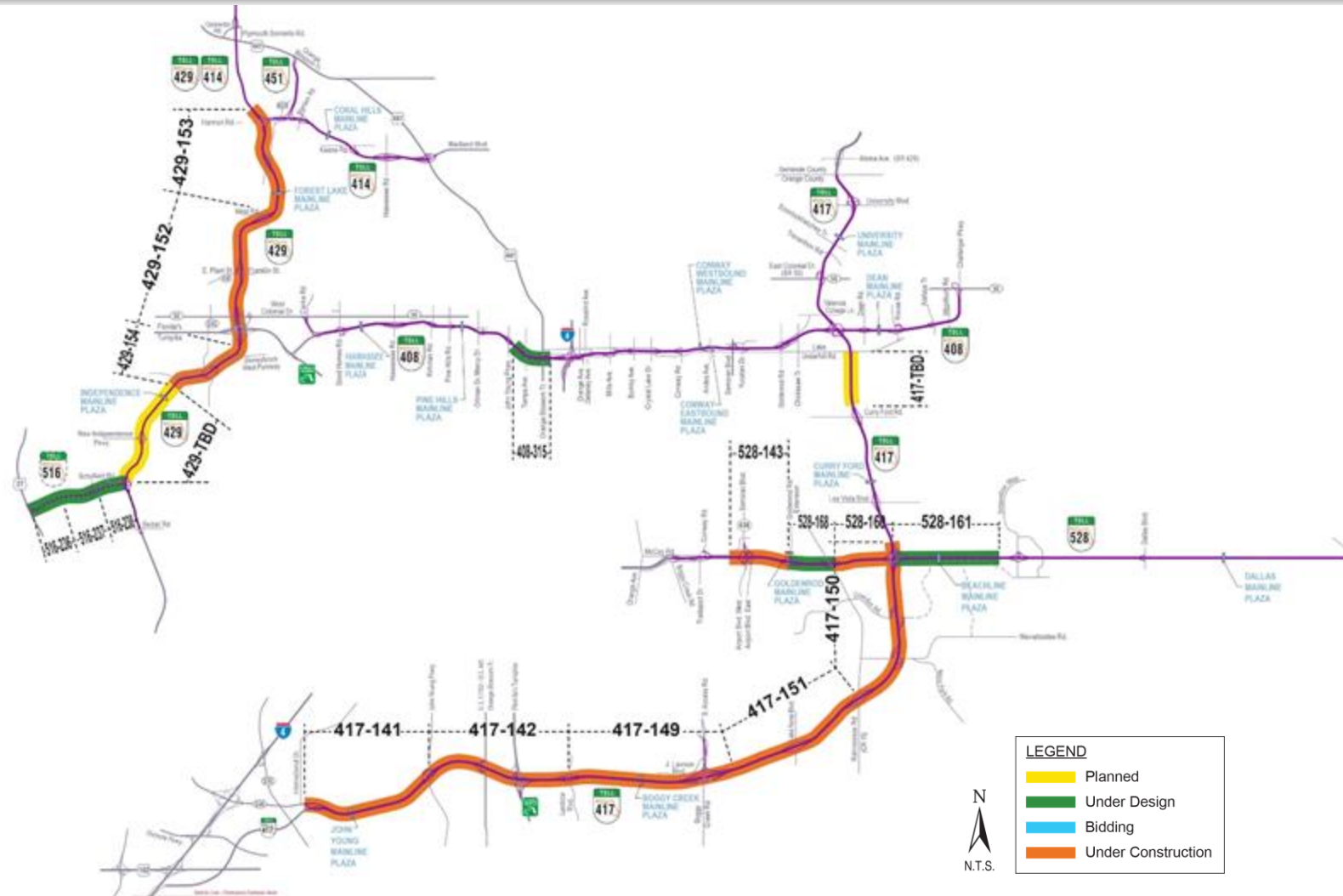
Major Types of Work:

- 10.1 – Roadway Construction
- 10.3 – Construction Materials Inspection
- 10.4 – Minor Bridge and Miscellaneous Structures
- 10.5 – Major Bridge (scope dependent)

Additional Services:

- VT Lab Testing, Asphalt Plant Inspection
- Commercial Inspection
- Dynamic Testing Engineer

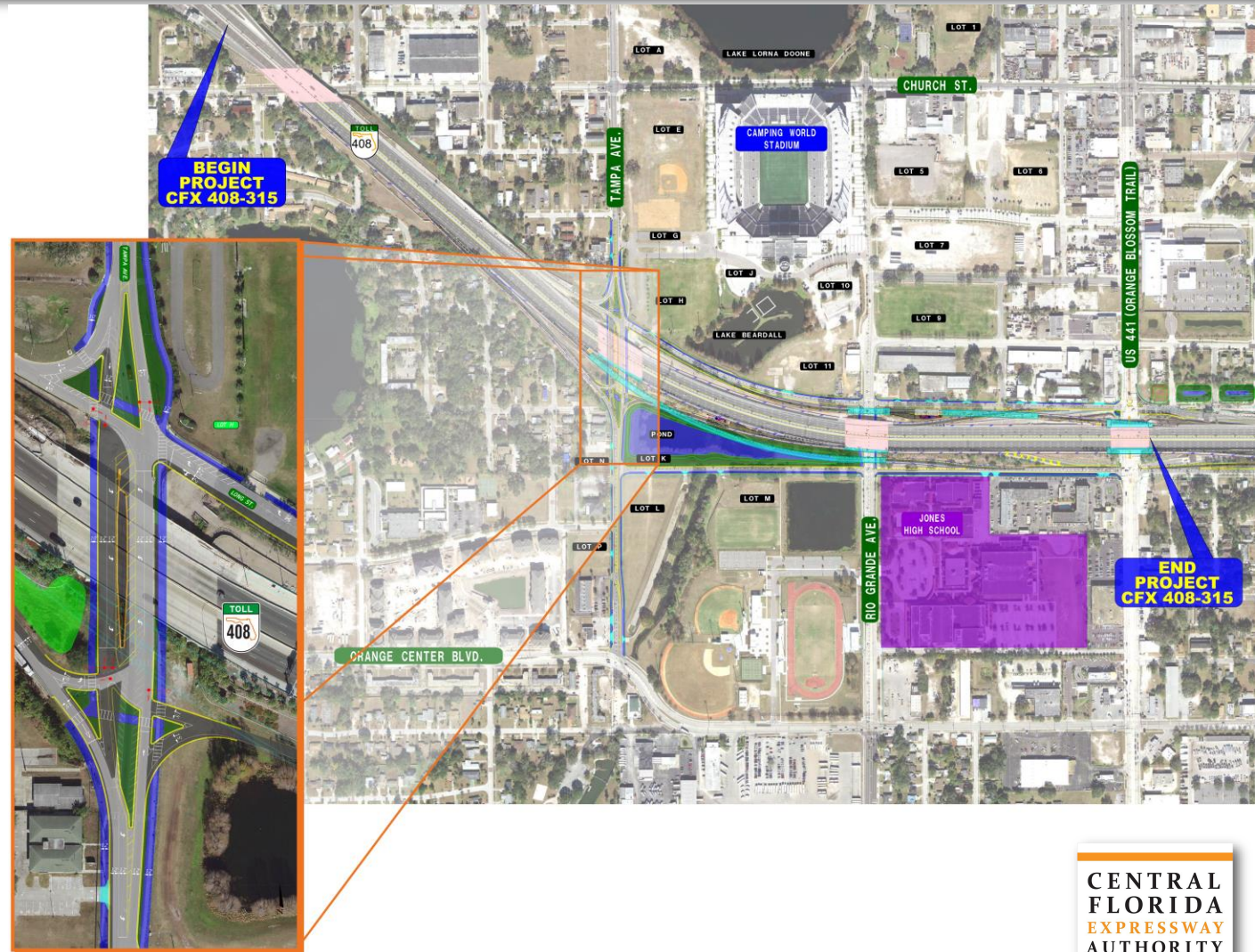
Status of Major Projects



SR 408 Tampa Avenue Interchange – 408-315

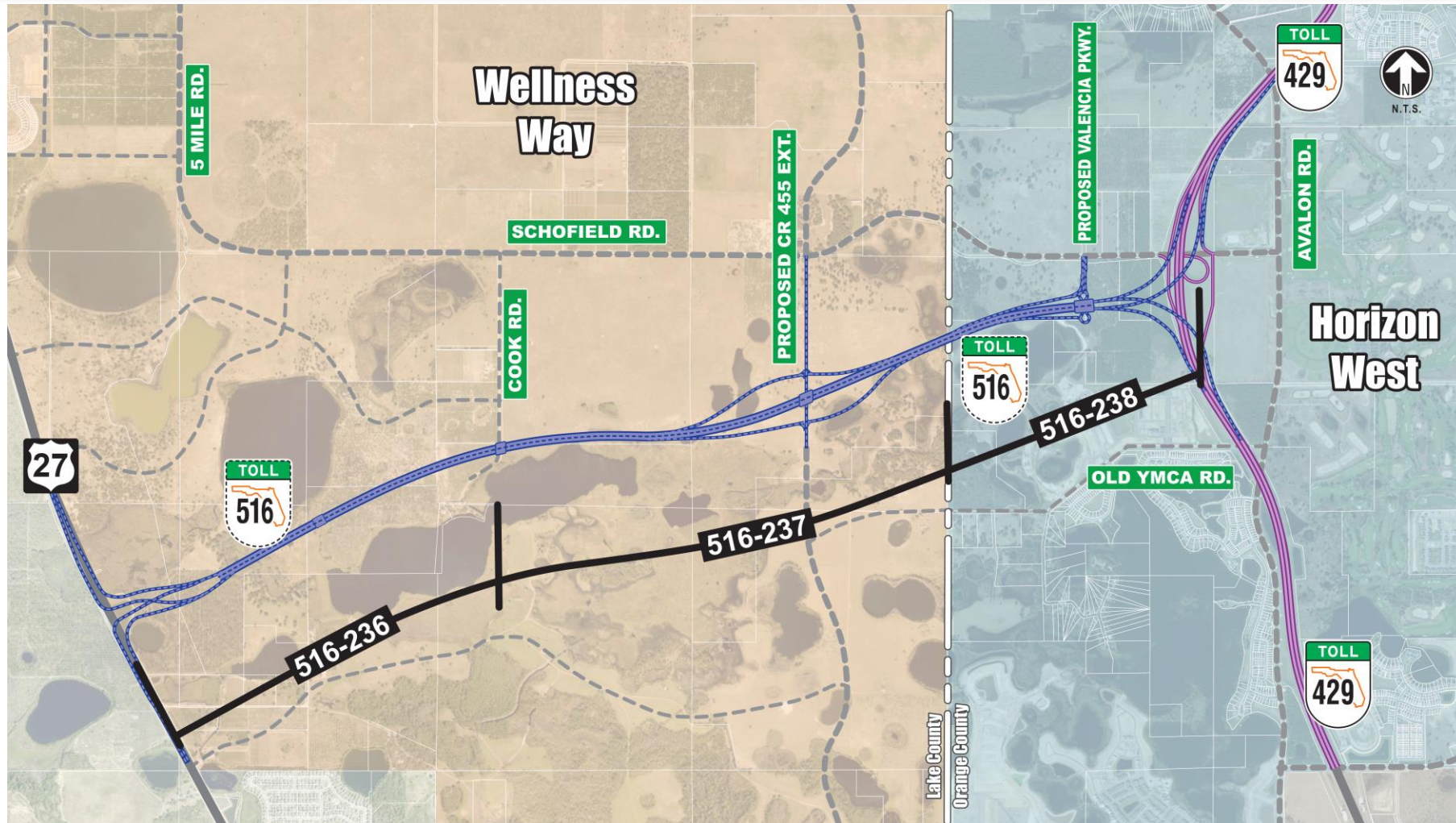
Tampa Avenue to Orange Blossom Trail

- CEI Advertisement:
 - 4th Quarter 2022
- \$56M Construction cost estimate
 - Multiple new / widened bridges
 - Add a 4th lane eastbound from JYP to OBT
 - New and reconstructed ramps
 - 3 AET ramp toll gantries



SR 516 Lake/Orange Expressway

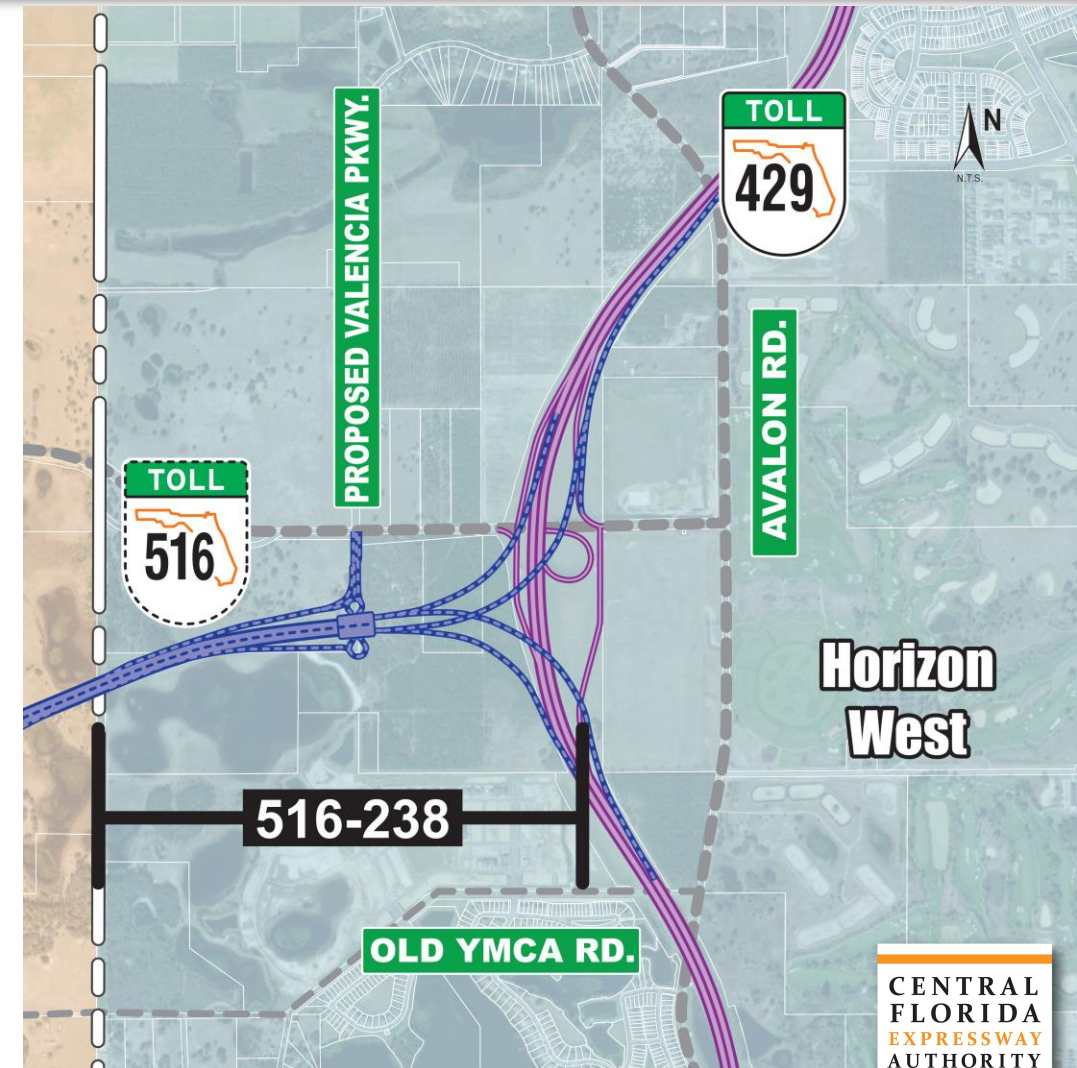
US 27 to SR 429



SR 516 Lake/Orange Expressway – 516-238

Lake/Orange County Line to SR 429

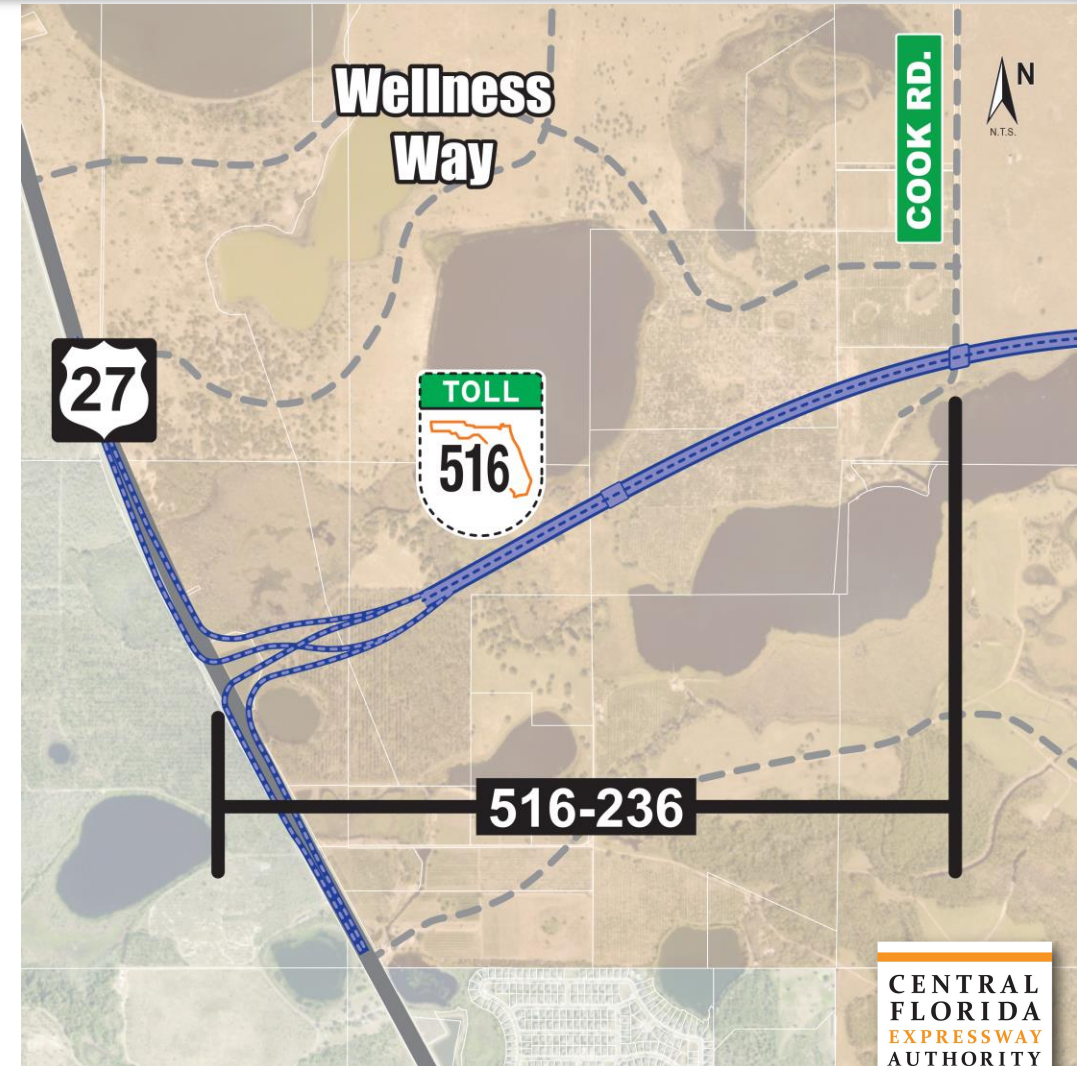
- CEI Advertisement:
 - 1st Quarter 2023
- \$178M Construction cost estimate
 - New Expressway (0.6 mi.)
 - Valencia Parkway Interchange (Roundabouts)
 - SR 429 Systems Interchange & Widening
 - 5 New & 4 Widened Bridges
 - 6 New AET Ramp Toll Sites
 - 14' Wide Trail along Valencia Parkway



SR 516 Lake/Orange Expressway – 516-236

Cook Road to Lake/Orange County Line

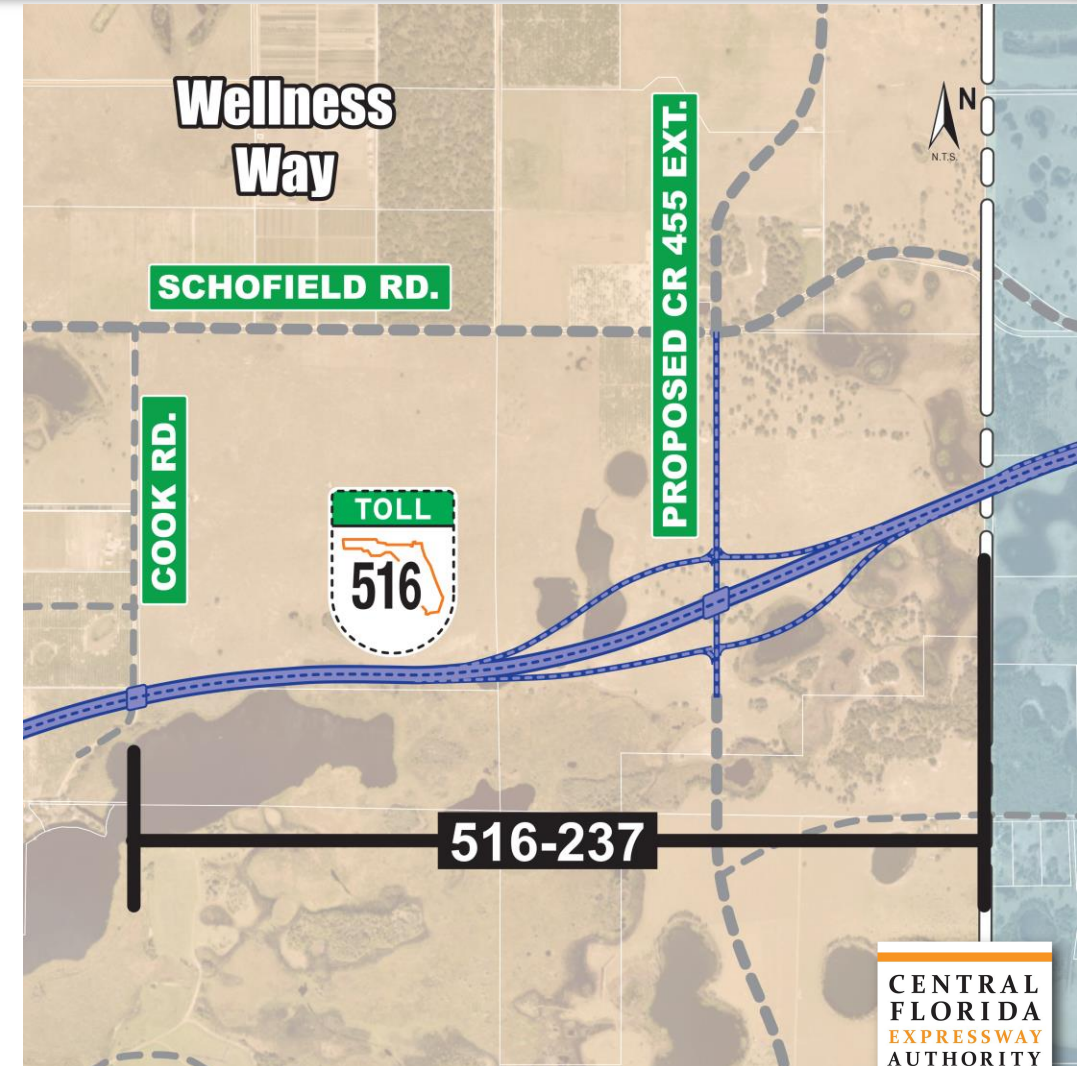
- Project (516-236)
- CEI Advertisement:
 - 2nd Quarter 2023
- \$143M Construction cost estimate
 - New Expressway (1.2 mi.)
 - US 27 Re-Construction (1.4 mi.)
 - Free-Flow Interchange at US 27
 - 8 New Bridges (Including trail along SR 516)
 - 14' Wide Trail along SR 516 & US 27
 - In-Road EV Charging Pilot



SR 516 Lake/Orange Expressway – 516-237

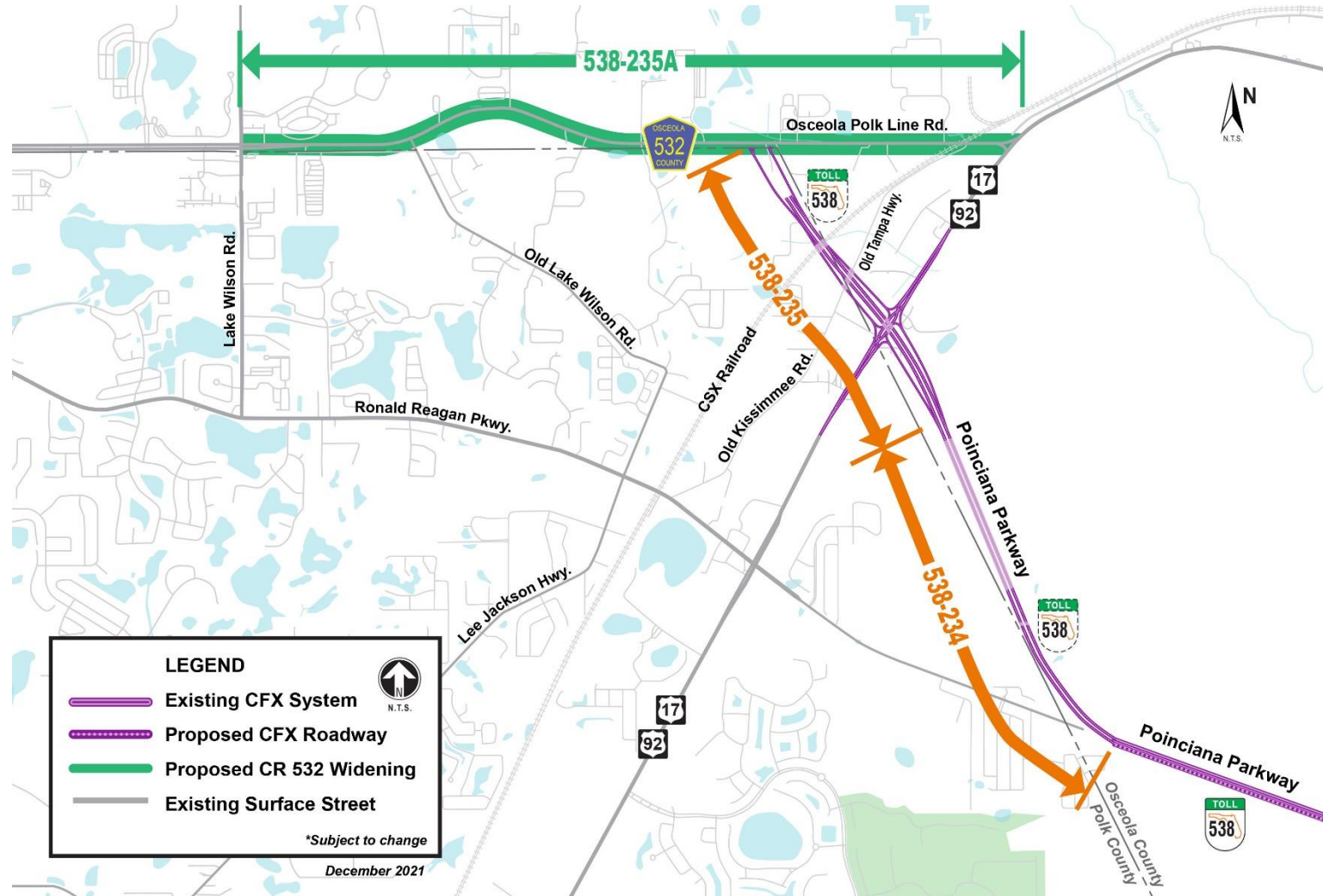
Lake/Orange County Line to SR 429

- CEI Advertisement:
 - 2nd Quarter 2023
- \$116M Construction cost estimate
 - New Expressway (1.9 mi.)
 - CR 455 Interchange
 - 4 New Bridges
 - 2 New Ramp Toll Sites
 - 14' Wide Trail along SR 516 & CR 455



SR 538 Extension

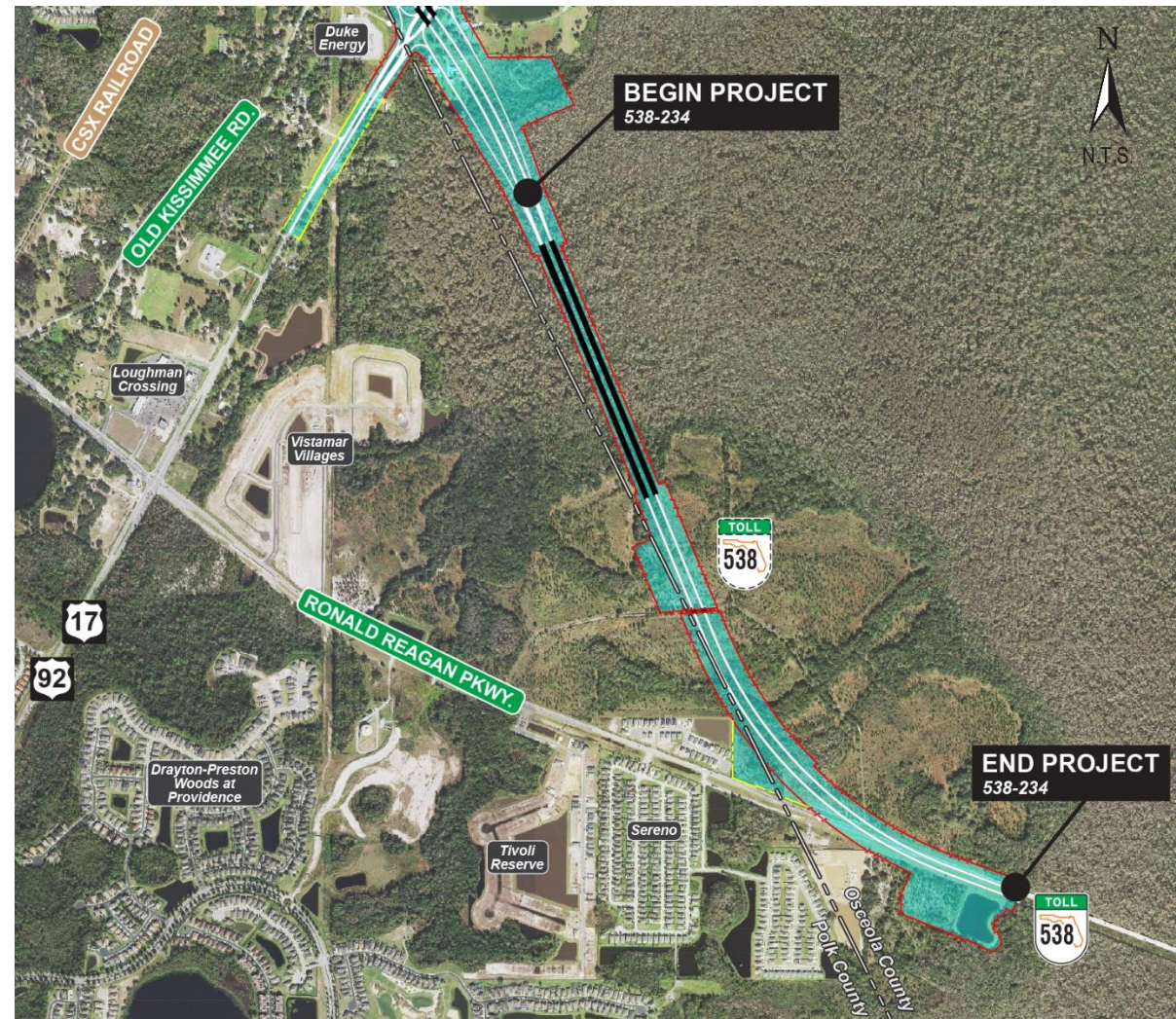
CR 532 to Ronald Reagan Parkway



SR 538 Extension – 538-234

South of US 17/92 to Ronald Reagan Parkway

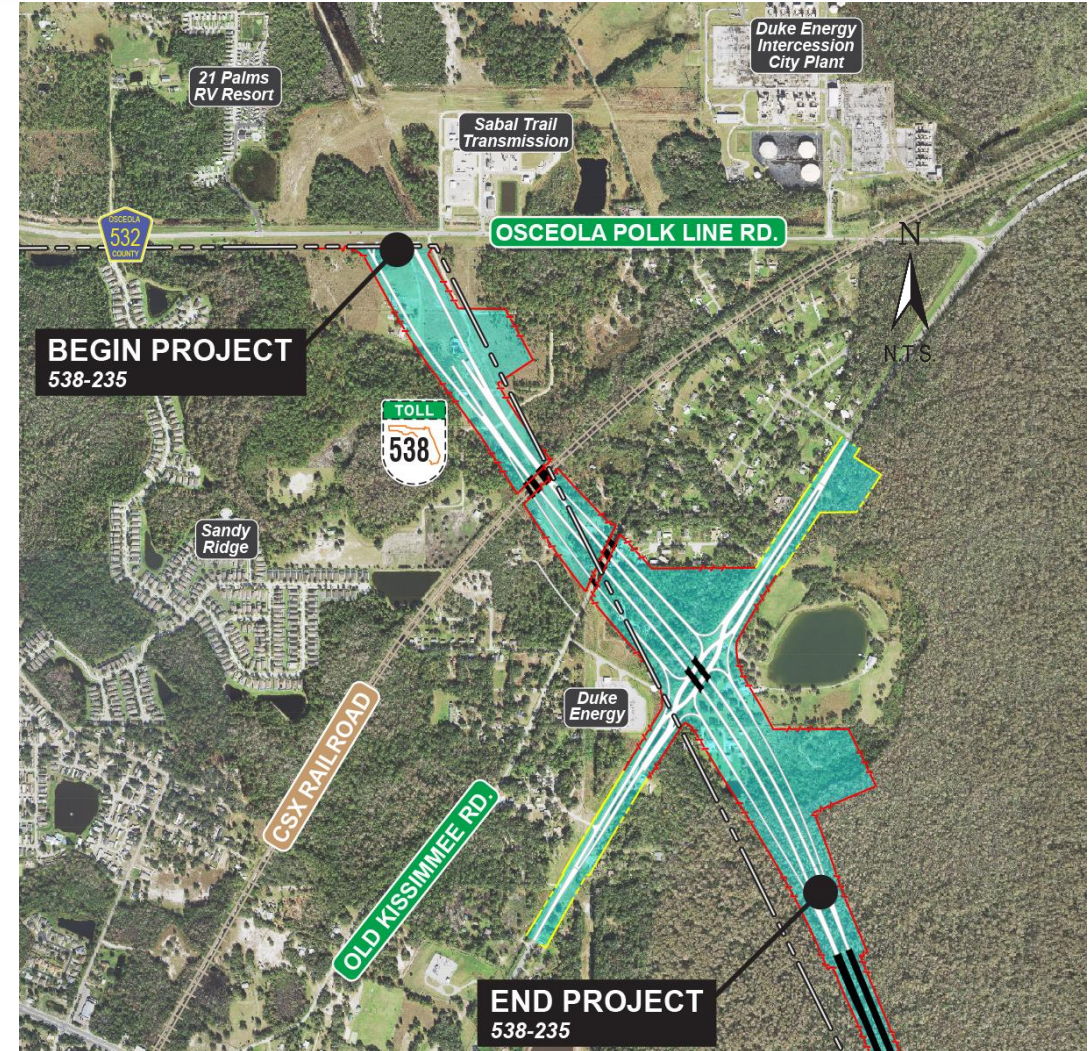
- CEI Advertisement:
 - 3rd Quarter 2023
- \$97M Construction cost estimate
 - New Expressway
 - 4 Bridges
 - Reedy Creek Mitigation Bank



SR 538 Extension – 538-235

CR 532 to South of US 17/92

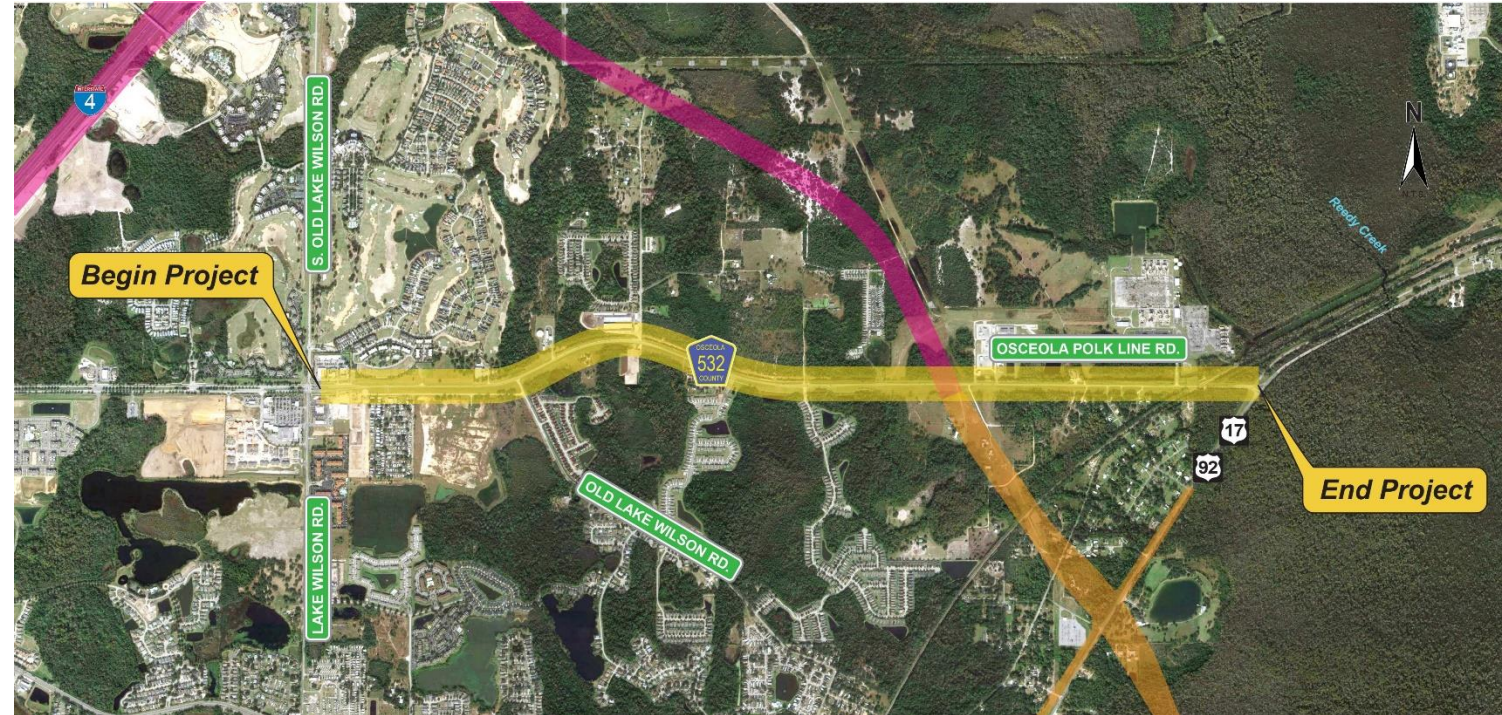
- CEI Advertisement:
 - 3rd Quarter 2023
- \$101M Construction cost estimate
 - New Expressway
 - 9 Bridges
 - Utility Relocations
 - CSX Railroad
 - FDOT (17/92 Interchange)
 - Toll Gantries



CR 532 Widening – 538-235A

Lake Wilson Road to US 17/92

- CEI Advertisement:
 - 3rd Quarter 2023
- \$40M Construction cost estimate
 - 2 lane to 4 lane divided
 - 2.9 Miles
- Partnership with Osceola County
- 10' Trail & 5' Sidewalk
- CSX Railroad at-grade crossing



1 – Year Look Ahead

CEI Advertisements

Project #	Description	Construction Cost Estimate	Anticipated CEI Advertisement*
408-315	SR 408 Tampa Avenue Interchange	\$56 Million	4 th Quarter 2022
516-238	SR 516 Lake/Orange County Line to SR 429	\$178 Million	1 st Quarter 2023
516-236	SR 516 US 27 to Cook Road	\$143 Million	2 nd Quarter 2023
516-237	SR 516 Cook Road to Lake/Orange County Line	\$116 Million	2 nd Quarter 2023
538-234	SR 538 Extension South of US 17/92 to Ronald Reagan Parkway	\$97 Million	3 rd Quarter 2023
538-235	SR 538 Extension South of CR 532 to South of US 17/92	\$101 Million	3 rd Quarter 2023
538-235A	CR 532 Widening Lake Wilson Road to US 17/92	\$40 Million	3 rd Quarter 2023
-	Systemwide Construction, Engineering and Inspection Services	-	2 nd Quarter 2023

**Quarters are "Calendar" Quarters and subject to change.*

1 – Year Look Ahead

Construction Advertisements

Project #	Description	Construction Cost Estimate
408-167	SR 408 Lighting (LAMS)	Advertised
528-757	SR 528 Farm Access Road 1 Bridge Removal	Advertised
414-473	Coral Hills Mainline Toll Plaza – PV's	Advertised
599-171	Systemwide Median Protection Improvements	\$3.7 Million
599-170	Systemwide Water Body Protection/Guardrail Project	\$2.4 Million
599-646	Systemwide Guide Sign & Lighting Replacement	\$5.8 Million
599-645	Systemwide Trailblazer Project	\$2 Million
599-773	Systemwide Coating of Steel Bridges	\$6 Million

Questions?



Jack Burch, PE

CFX Resident Engineer/ Construction
Manager

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THANK YOU

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