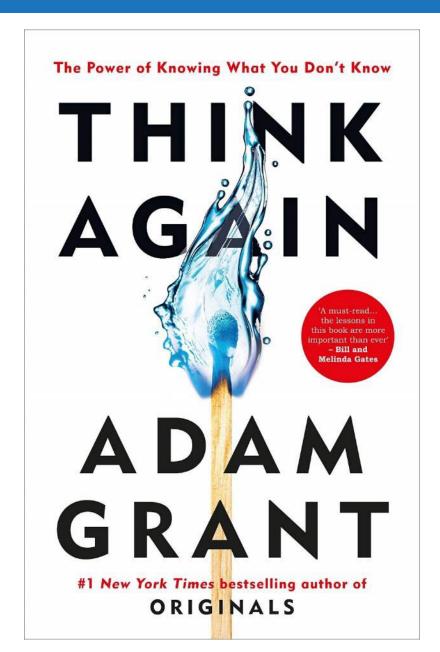
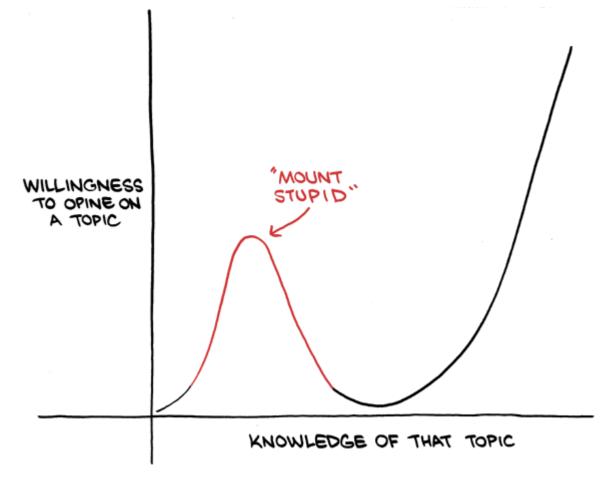


Think Again

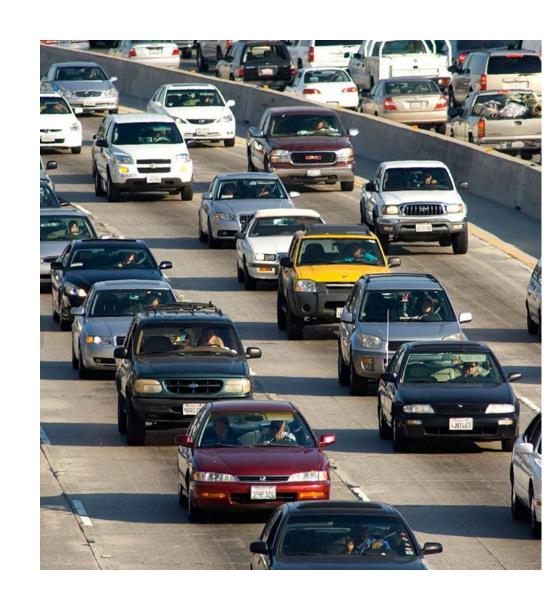






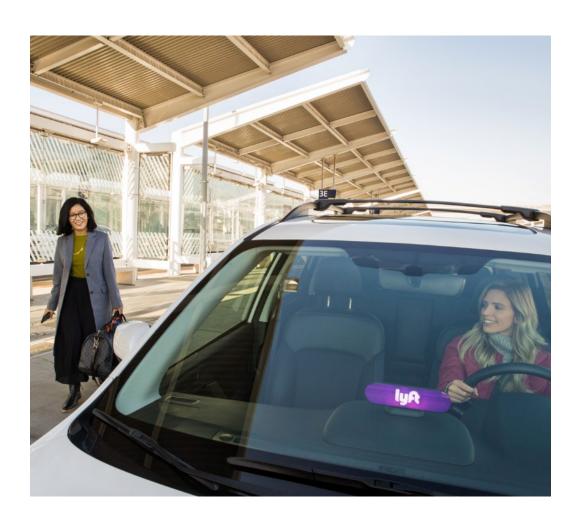
Advantages and Disadvantages of Owning an Automobile

- Advantages
 - ✓ Convenience
 - ✓ Instant Availability
- Disadvantages
 - ✓ High Cost of Ownership
 - ✓ Stress of Driving in Traffic
 - ✓ Parking Costs and Availability
- AAA average annual car cost = \$9,282
- Equates to about \$0.65 per mile



Advantages and Disadvantages of Ride Sharing Services

- Advantages
 - ✓ Convenience
 - ✓ Used for the mobility challenged
 - ✓ Used for Special Events
- Disadvantages
 - √ Very high cost
 - ✓ Can increase congestion
 - ✓ Limited driver screening
- UBER and LYFT are about \$1-\$2/mile
- High minimum ride costs (\$6.50 for UberX)



Advantages and Disadvantages of Mass Transit Services

- Advantages
 - ✓ Much less expensive
 - ✓ Less stressful than driving
- Disadvantages
 - ✓ Less convenient
 - ✓ High headways
 - ✓ Limited off peak service
- LYNX and SunRail fares are \$2-\$3/trip
- Equates to \$0.19 to \$0.29 per mile



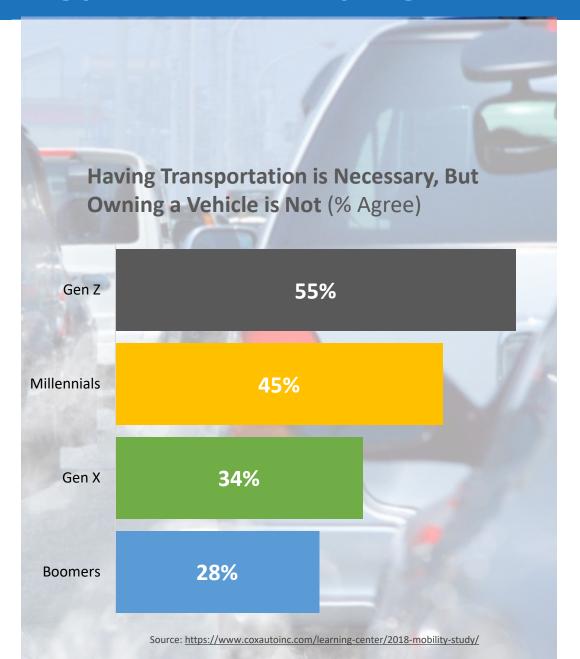


Advantages and Disadvantages of AV Shuttle Projects

- Advantages
 - ✓ No driver = potential large savings
 - ✓ More convenient
 - ✓ Lower headways
- Disadvantages
 - ✓ Technology still emerging
 - ✓ Currently operating at low speeds
- Could become a very cost competitive alternative to the single occupant vehicle.



Why is AV Technology Worth Studying?



Trenton Moves Project

Trenton MOVES:

Mobility & Opportunity: Vehicles Equity System



City of Trenton



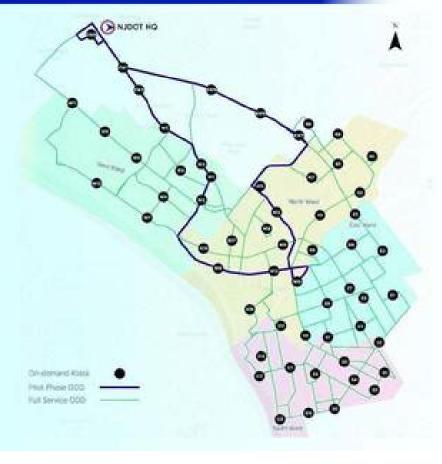
NUDOT



State of New Jersey



Princeton University



JTA Ultimate Urban Circulator Project



Early Transit in the City of Altamonte Springs

What are we trying to achieve?

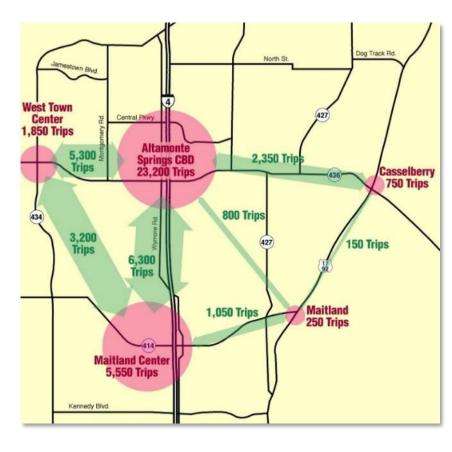
Easy To Use And Understand

Touch Screen Kiosks at Stations



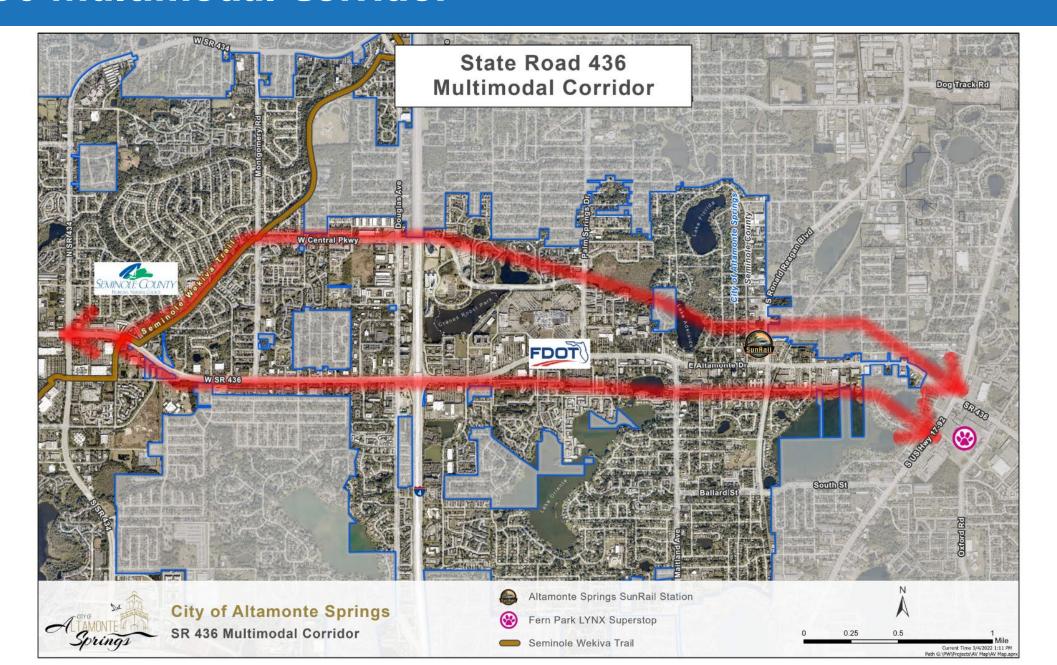
Internet Access from Home/Office



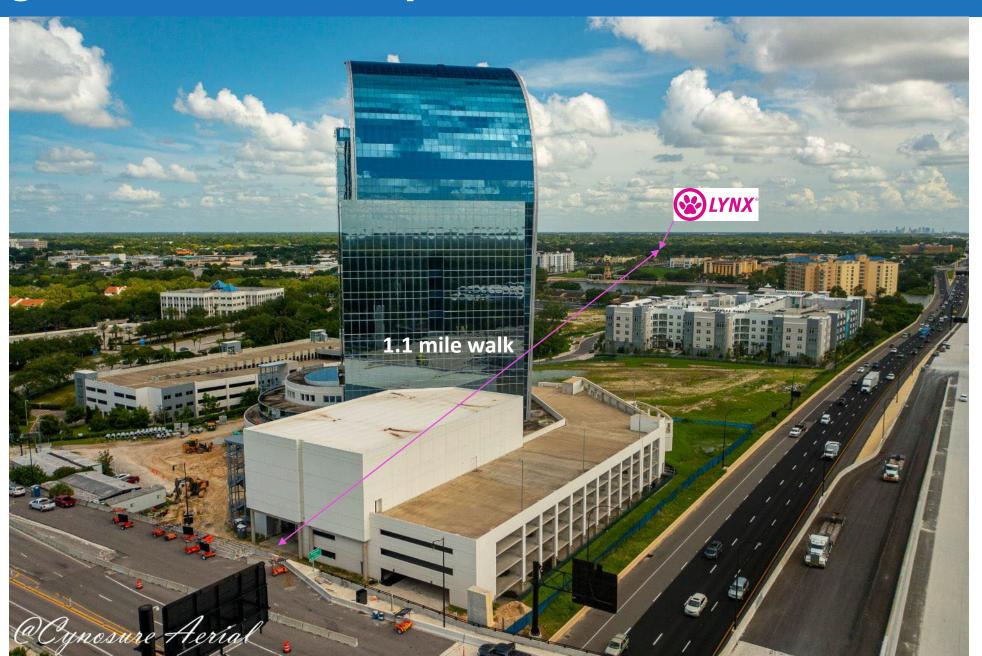




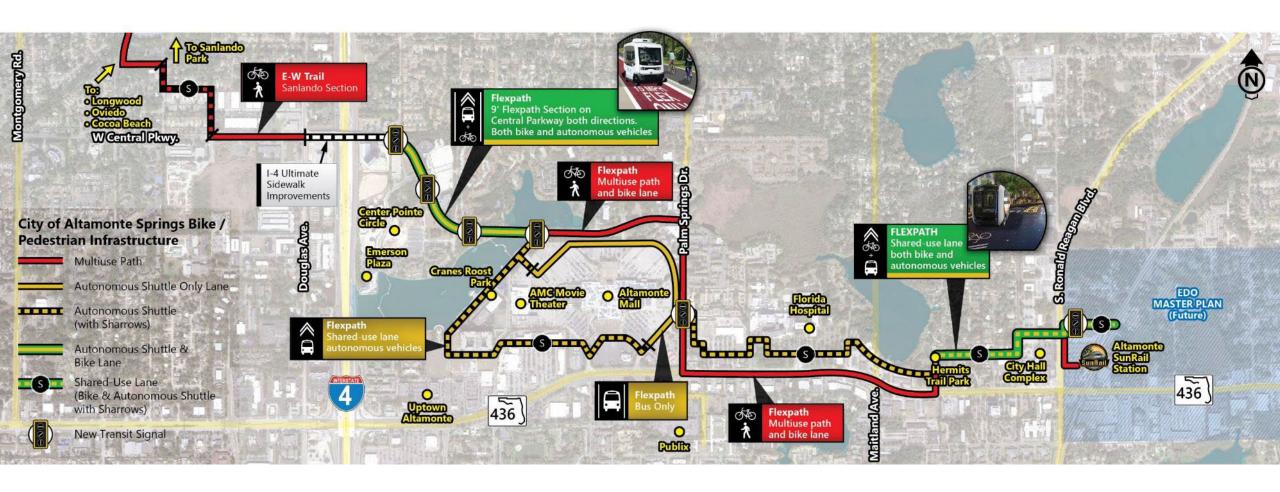
SR 436 Multimodal Corridor



Changing the transit landscape into the future



Flexpath Project Overview



Flexpath Project Renderings





Flexpath Project Renderings





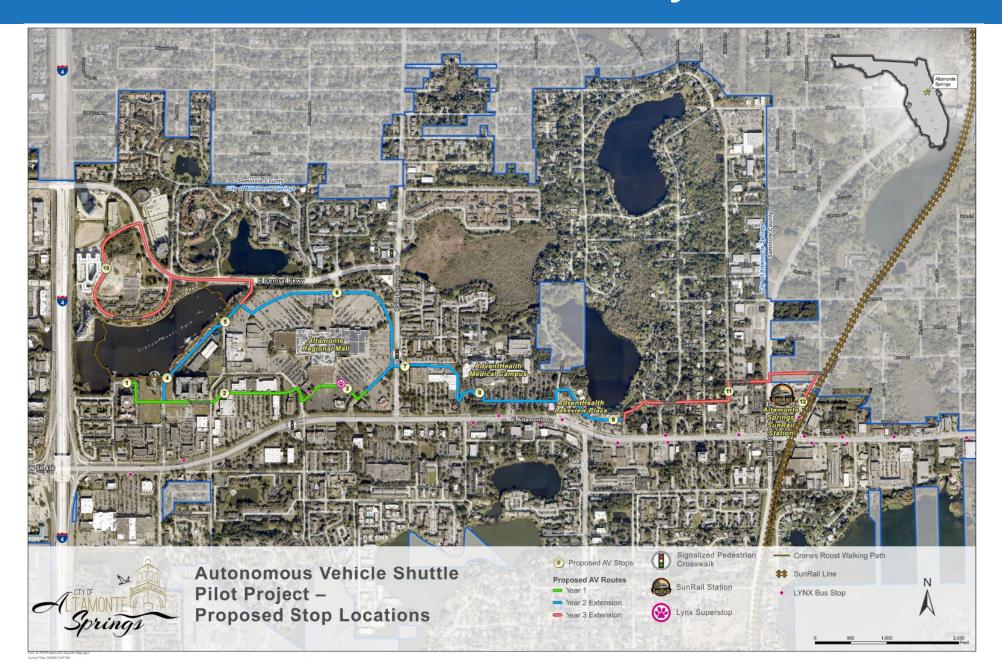


Flexpath Project Renderings





Autonomous Vehicle (AV) Shuttle Pilot Project – Overall route



FDOT Service Development Grant – FY 2022/2023 – FY

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KEVIN J. THIBAULT, P.E. SECRETARY

September 22, 2021

2024/2025

Franklin W. Martz, II City Manager City of Altamonte Springs 225 Newburyport Avenue Altamonte Springs, Florida 32701

Re: State Fiscal Year 2022/2023 - Public Transit Service Development Program Intent to Award Letter

Dear Mr. Martz:

This notice is to advise the City of Altamonte Springs that the Florida Department of Transportation (FDOT) District Five Grant Review Team has completed the grant application review and ranking process for State Fiscal Year 2023/2024. Below is an overview of the City of Altamonte Springs' proposed Public Transit Service Development Program project and the anticipated amounts that will be awarded:

	Service Development Funding	Local Share
FY23 Capital	\$156,250.00	\$156,250.00
FY23 Operating	\$159,539.00	\$159,539.00
FY23 TOTAL	\$315,789.00	\$315,789.00
FY24 Capital	\$187,500.00	\$187,500.00
FY24 Operating	\$191,448.00	\$191,448.00
FY24 TOTAL	\$378,948.00	\$378,948.00
FY25 Capital	\$250,000.00	\$250,000.00
FY25 Operating	\$255,263.00	\$255,263.00
FY25 TOTAL	\$505,263.00	\$505,263.00
TOTAL PROJECT COST	\$1,200,000.00	\$1,200,000.00

Please review the attached budget categories identified in Exhibit B (Attachment 1) and indicate how the tentative operating award will be distributed within each budget category for State Fiscal Year 2023. Thank you for participating in this competitive grant application process. If you have any questions, please contact me at (321) 319-8174 or email diane.poitras@dot.state.fl.us.

Improve Safety, Enhance Mobility, Inspire Innovation www.fdot.gov



City Selected Vendor





Proposed Vehicles from the Vendor



Figure 10: Navya Aesthetic Mock-Up



AV Shuttle Pilot Project – Overall Goals

- Improve Safety
- Develop a mobile application
- Produce mode shift
- Exchange data with AV shuttle
- Incorporate into Complete Street standards
- Reach Level 4 Autonomy
- Replicate in other parts of the State

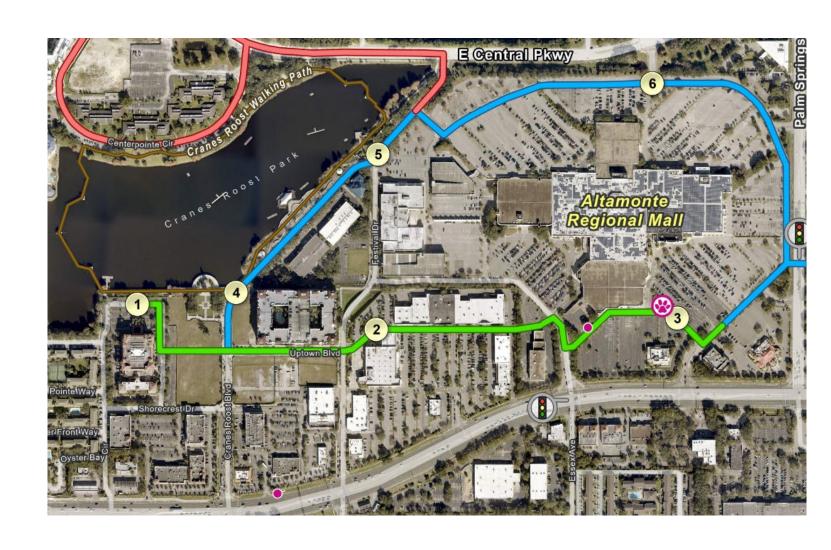




Autonomous Vehicle (AV) Shuttle Pilot Project – Year 1

Year 1 Goals

- Provide initial service to Embassy Suites, Cranes Roost Park, Whole Foods and the Altamonte Mall.
- Perform comprehensive public involvement and education.



Autonomous Vehicle (AV) Shuttle Pilot Project – Year 2

Year 2 Goals

- Extend service around the mall loop and to the AdventHealth campus.
- Develop the mobile application for customers.
- Add traffic signal connected vehicle technology that can interact with the AV shuttle.
- Exchange data with the AV shuttle and other infrastructure.





Autonomous Vehicle (AV) Shuttle Pilot Project – Year 3

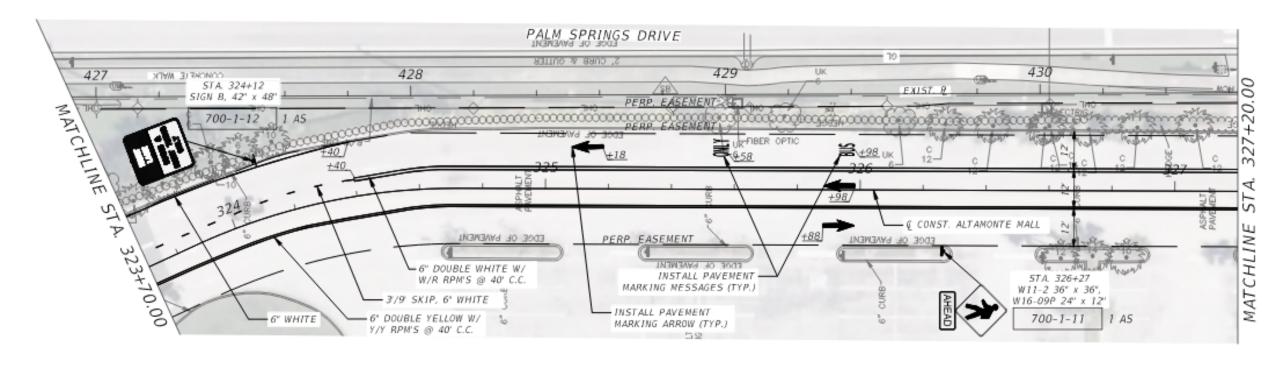
Year 3 Goals

- Extend service west to the Centerpointe Circle development and east to City Hall and the SunRail station.
- Incorporate "flex lane" on Central Pkwy into complete street standards.
- Reach level 4 autonomy.
- Mature to a fully operating and effective local transit system.

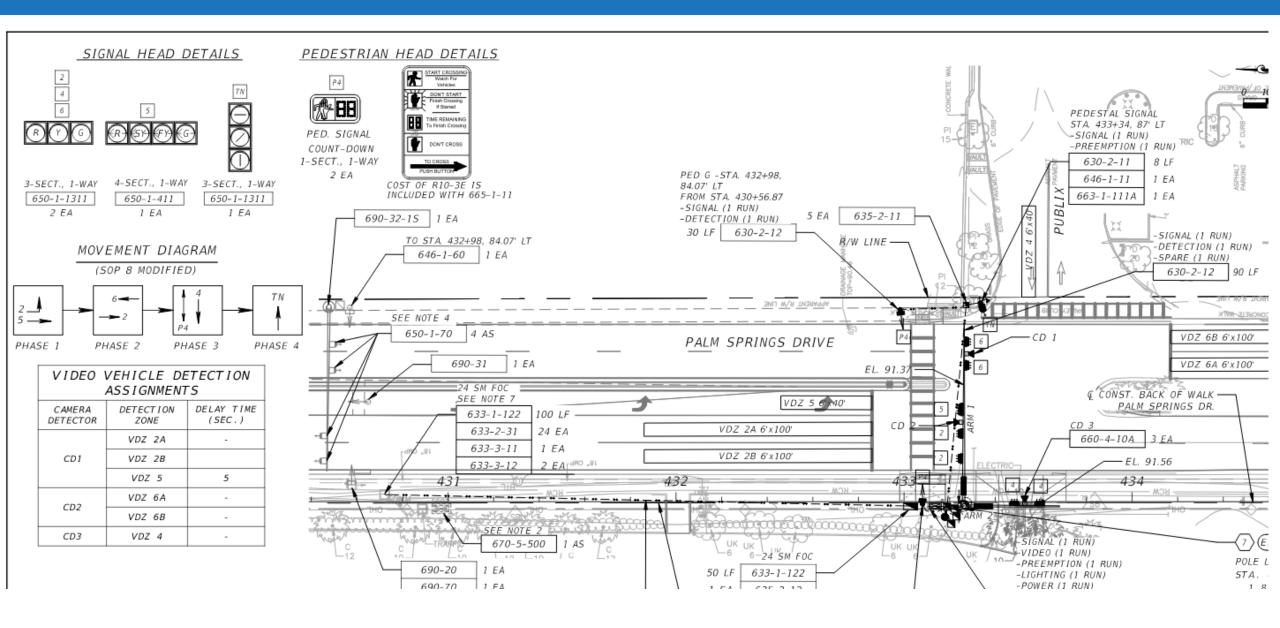




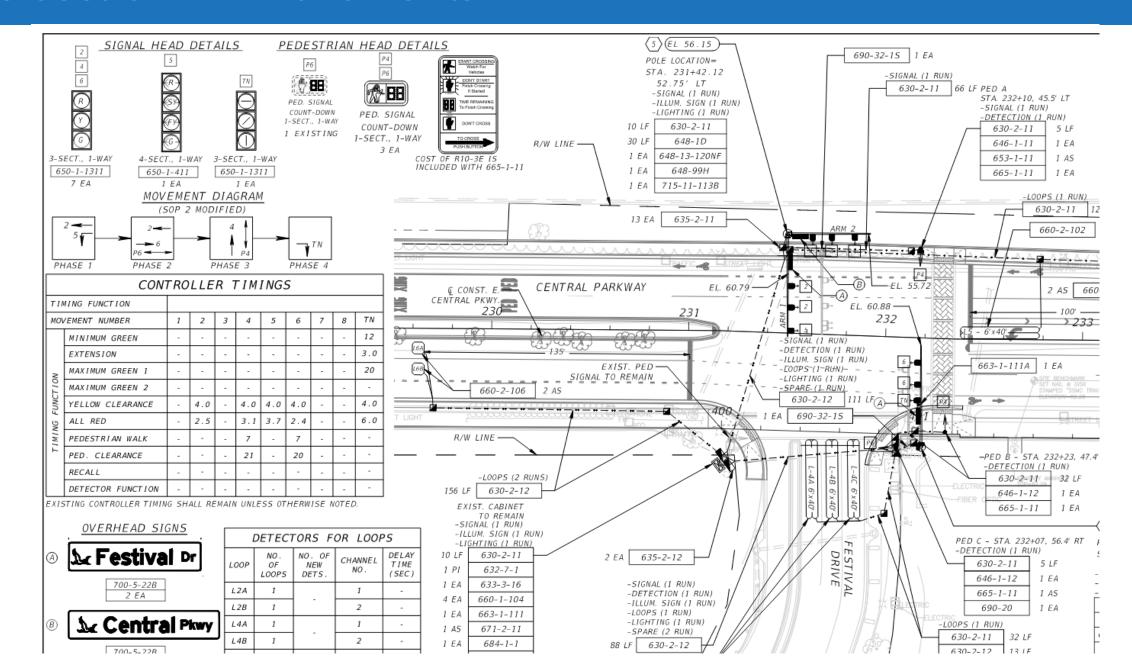
Altamonte Mall Exclusive AV Lane



Intersection AV Movements



Intersection AV Movements



Pilot Project Schedule

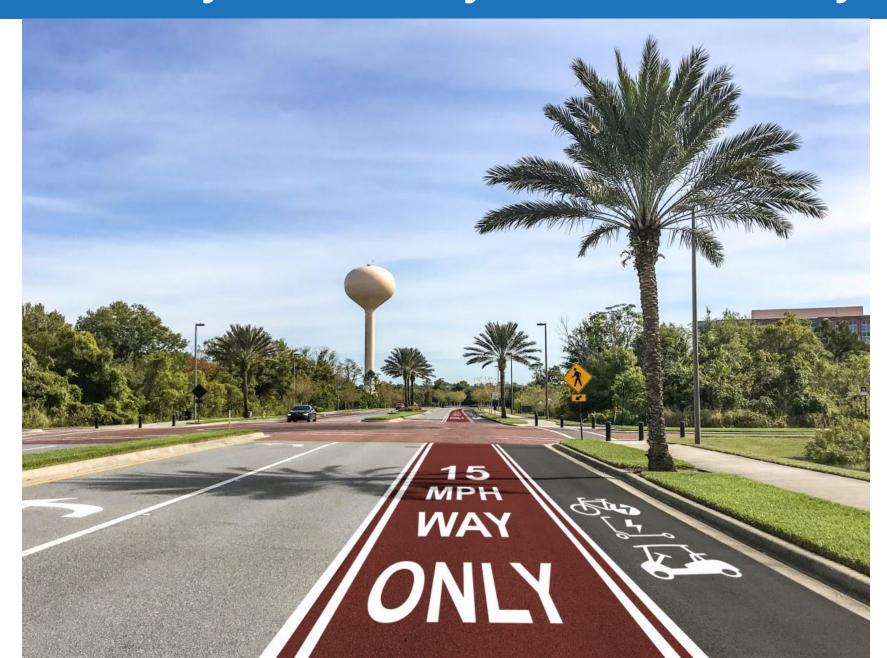
- July/August 2022 Finalize vendor contract and execute FDOT grant agreement
- September 2022 January 2023 Procurement of vehicles and initiation of service.
- February 2023 Year 1 Service Begins
- February 2024 Year 2 Service Begins
- February 2025 Year 2 Service Begins
- February 2026 Pilot Project is Complete



Potential Future Project – Gateway Dr AV Shuttle Project



Potential Future Project – Gateway Dr AV Shuttle Project



QUESTIONS?

BRETT BLACKADAR, PE, PMP, PTOE Director of Mobility and Innovation/City Engineer BBlackadar@altamonte.org (407) 571-8338

