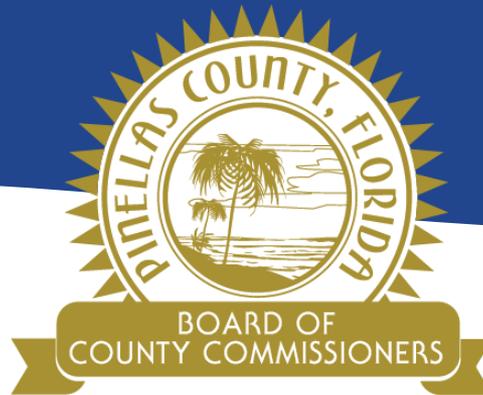


Gulf to Bay and Belcher Road Intersection Improvements

Board of County Commissioners Work Session

July 16, 2020



Our Vision:
To Be the Standard for
Public Service in America

Gulf to Bay and Belcher Road

Intersection Improvements



Ken Jacobs,

Director, Public Works Transportation Division

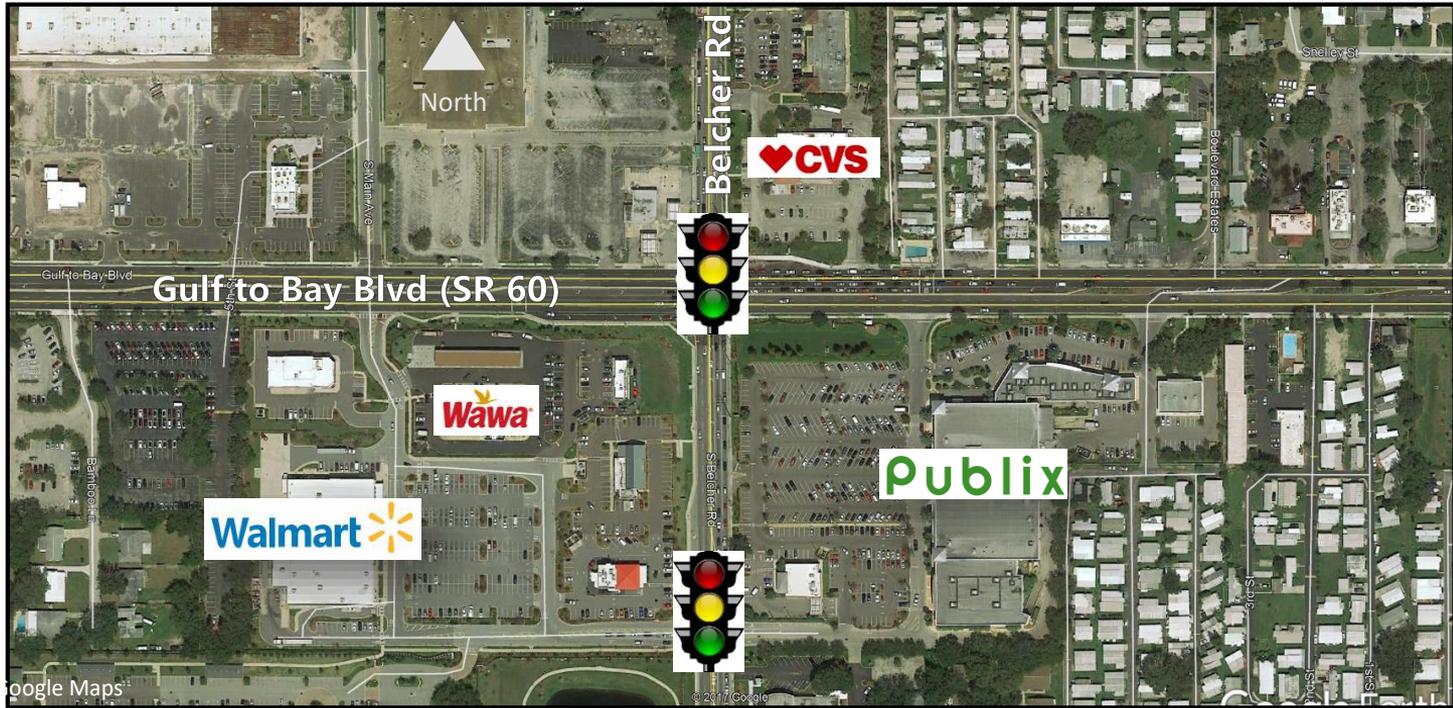
Kevin Kuhlow, PE

Transportation Manager, Ayres Associates

Our Vision: To Be the Standard for Public Service in America.



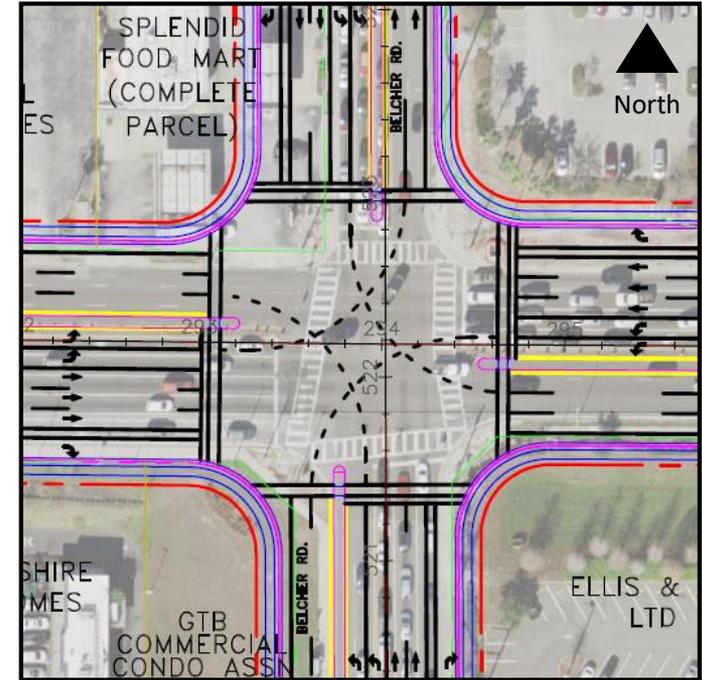
Gulf to Bay and Belcher Road Intersection



Gulf to Bay and Belcher Road Intersection

Expanded Traffic Signal Alternative

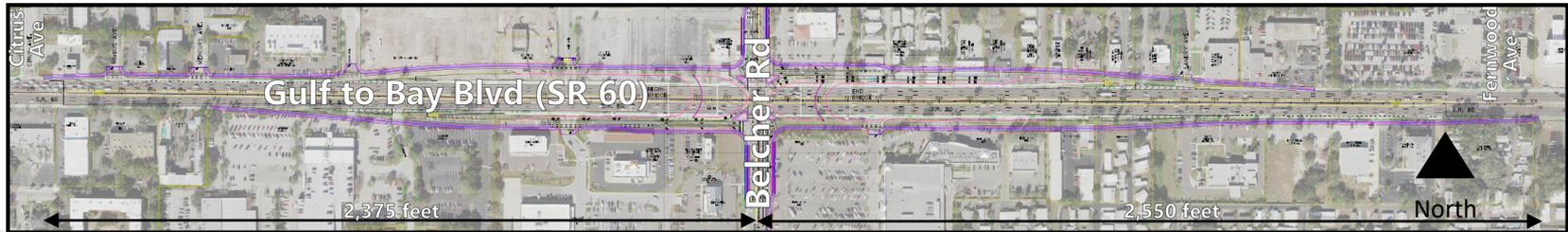
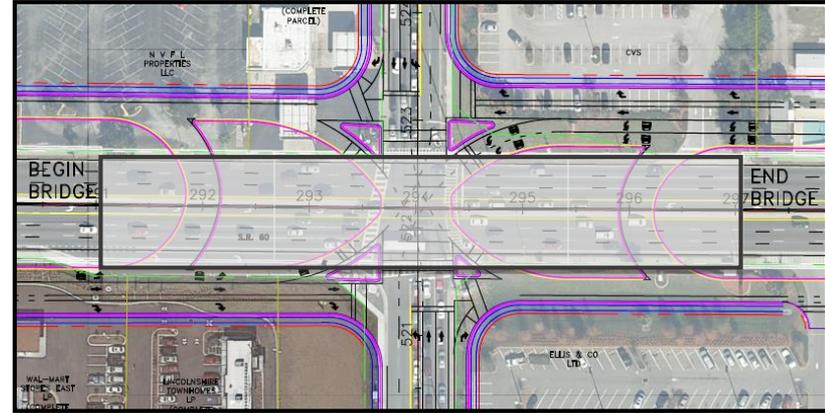
- Dual Left-Turn Lanes and Right-Turn Lanes
 - LOS F in 2037
 - Decreased Safety
- Removal of Walmart/Publix Traffic Signal on Belcher Road
- Closure of Median Openings on Gulf to Bay Blvd
- Comparison Cost = \$15M-\$18M



Gulf to Bay and Belcher Road Intersection

Single Point Urban Interchange Alternative

- Gulf to Bay Blvd over Belcher Rd
 - Improved Operations
- Significant R/W and Access Impacts
- Comparison Cost = \$80M+



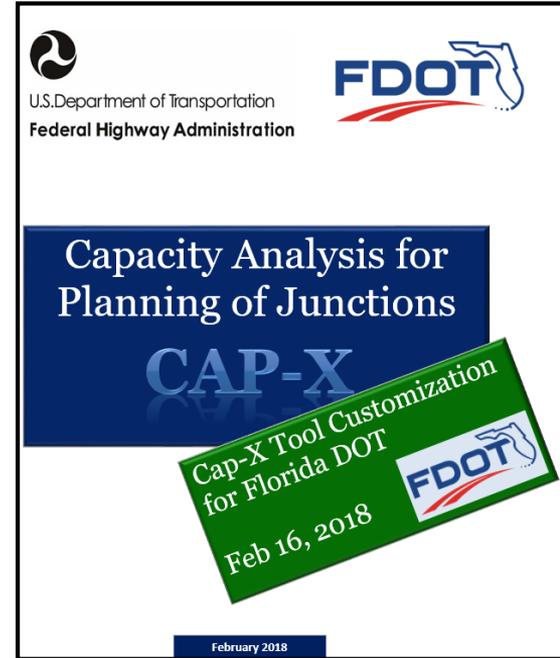
Gulf to Bay and Belcher Road Intersection

Innovative Intersection Alternatives

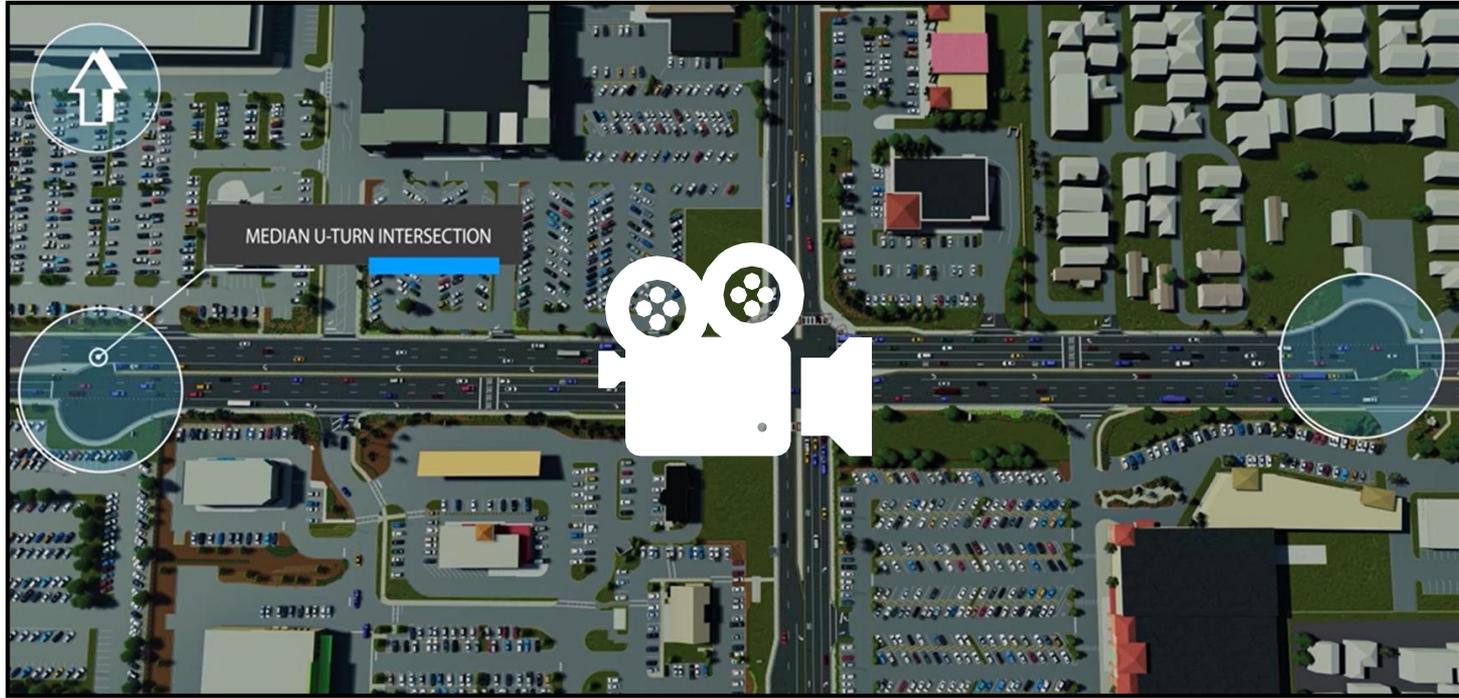
- Quadrant Roadway
- Displaced Left-Turn
- Restricted Crossing U-Turn
- Median U-Turn

Rank	TYPE OF INTERSECTION	Overall v/c Ratio	V/C Ranking
1	Median U-Turn E-W	0.79	1
2	Partial Median U-Turn E-W	0.85	2
3	Conventional	1.07	3
4	Restricted Crossing U-Turn E-W	1.08	4

Feasible Alternatives



Gulf to Bay and Belcher Road Intersection



Gulf to Bay and Belcher Road Intersection

East/West Median U-Turn

- Improved Safety and Operations
- Improved Pedestrian Accommodations
- Maintains Walmart/Publix Traffic Signal on Belcher Road
- Reduced Right-of-Way Impacts
- Comparison Cost = \$13.5M



Gulf to Bay and Belcher Road Intersection

Next Steps

- FY 2021/22 Public Meeting
- Present Public Feedback for Alternative Determination
- Finalize and Share PD&E
- ~FY 2022/23 Design
- ~FY 2023/24 Acquisition
- ~FY 2025/26 Construction

