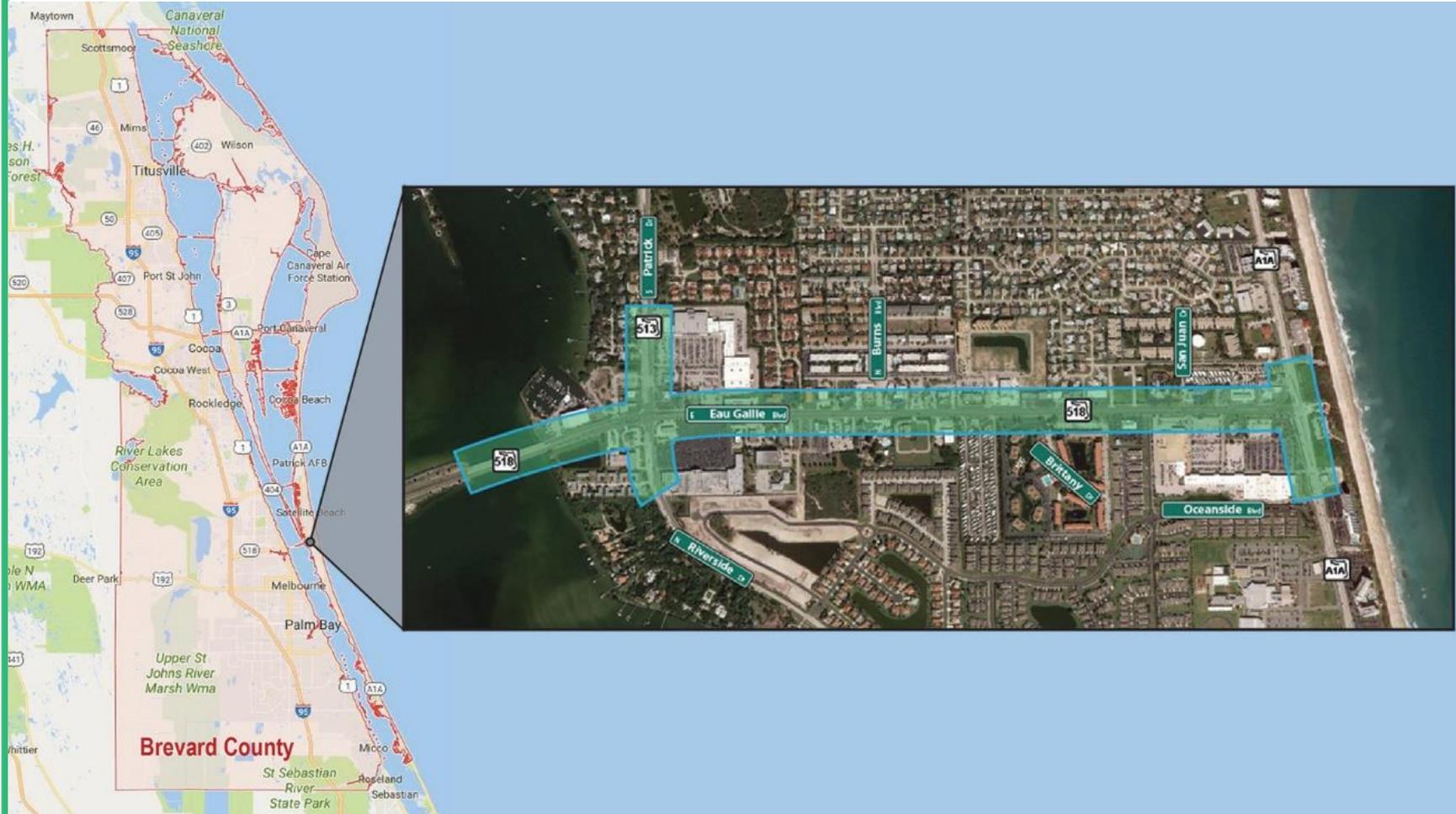


State Road (S.R.) 518 / Eau Gallie
Boulevard Conceptual Design Study
Space Coast TPO TAC/CAC

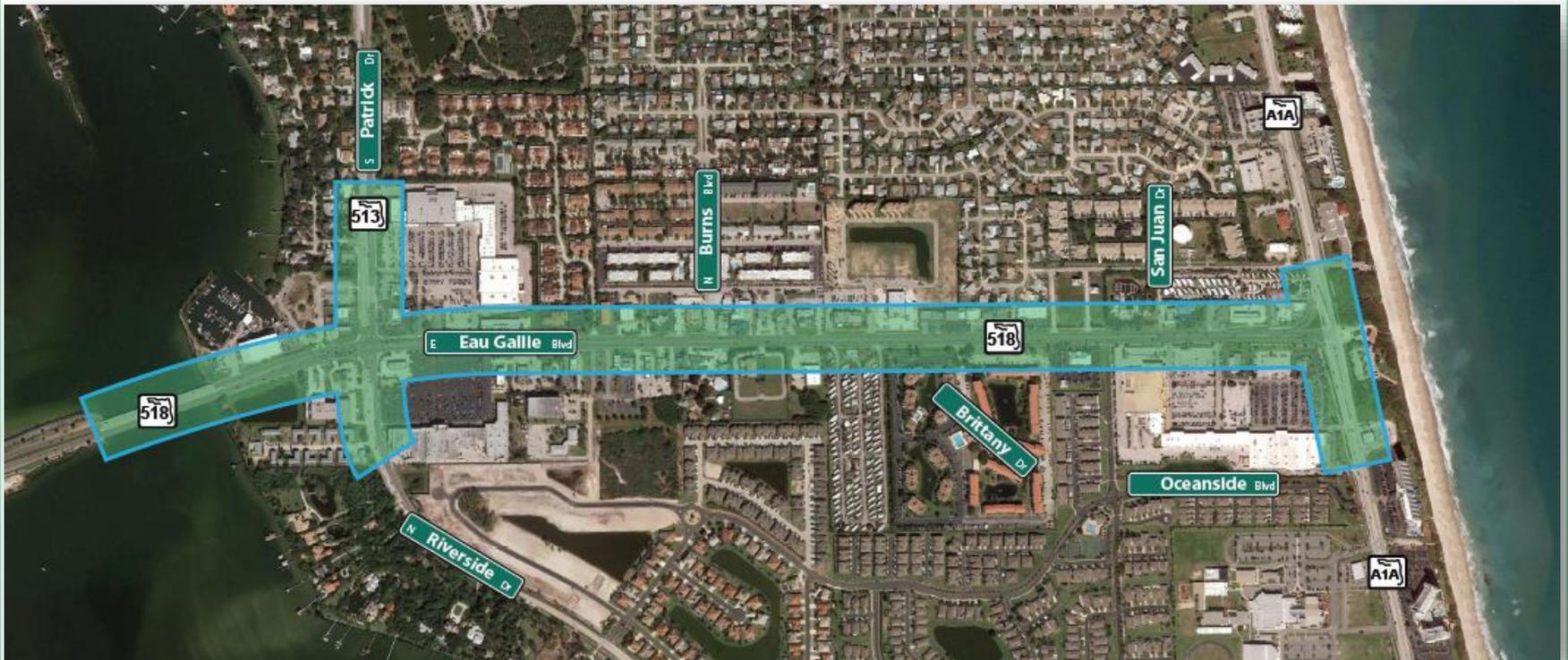
July 9, 2018



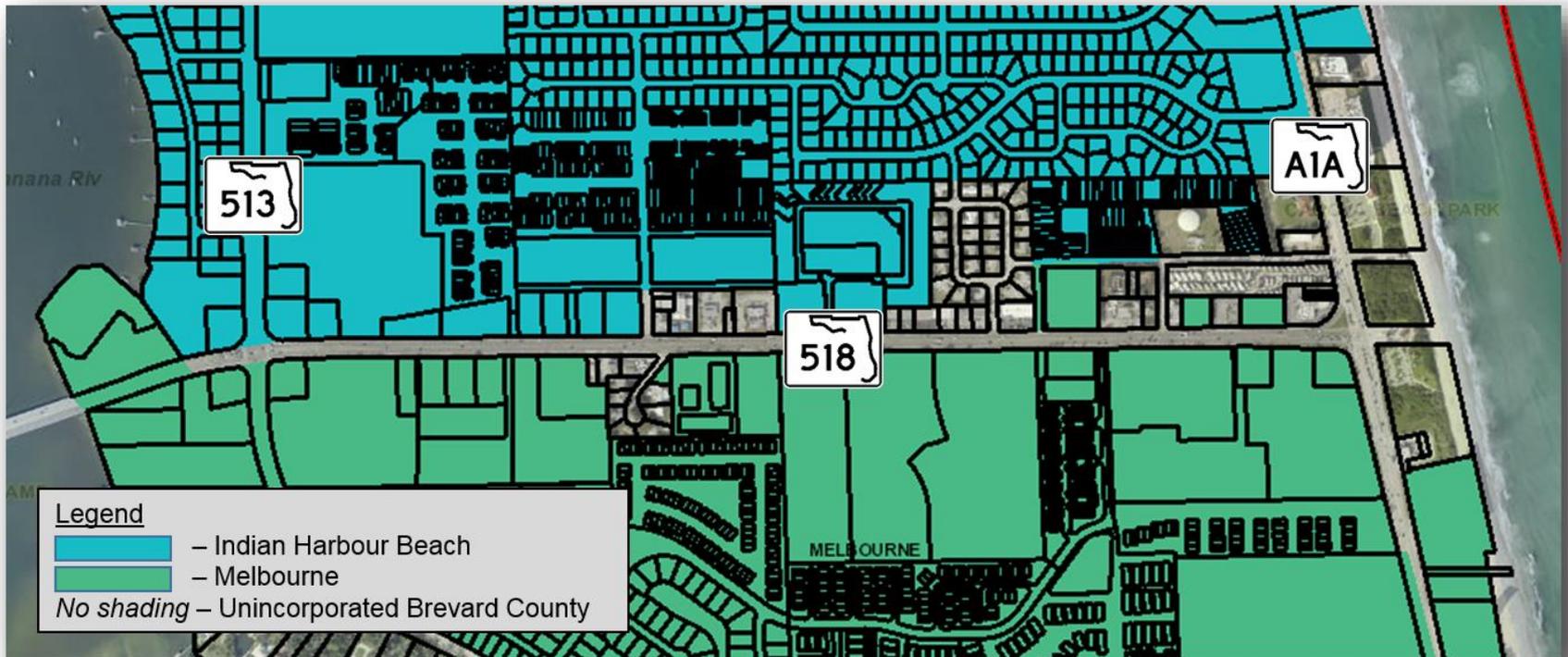
Project Location



Project Limits



Municipal Boundaries



Planning Phase

- Completed March 2016
- Three Priority Groups
- I – Bike Lanes, Sidewalks, S.R. A1A Intersection
- II – Relief Bridge, Access Management, S.R. 513 Intersection
- III – Roundabouts, Median



Table 1: Summary of Improvement Potential Improvements

Priority Group	#	Description	Location	Agency Lead	Potential Phases Needed
I	1.a	Sidewalks - North Side	South Patrick Drive to SR A1A	To Be Determined	Concept Development / Design / Construction
	1.b	Crosswalk with audible beacon	Winn-Dixie Intersection, east side	To Be Determined	Design / Construction (after sidewalk is in place)
	2	Bike Lanes	Relief Bridge to SR A1A	To Be Determined	Implement during resurfacing
	3	SR A1A Intersection - remove continuous right turn lanes, extend median	Eau Gallie Boulevard at SR A1A. Median changes along Eau Gallie	To Be Determined	Concept Development / Design / Construction
II	4a	Bridge sidewalk and connection of bike lanes	Relief Bridge to SR 513 / South Patrick Drive	To Be Determined	Concept Development / Design / Right-of-way / Construction
	4b	SR 513 / South Patrick Drive Intersection - repurpose westbound lanes (1 left, 2 through, 1 right)	Intersection of Eau Gallie Boulevard and SR 513 / South Patrick Drive	To Be Determined	Concept Development / Design / Right-of-way / Construction
	5	Driveway and median modifications	Publix / Boats Shopping Center driveways on Eau Gallie	To Be Determined	Concept Development / Design / Construction
III	6	Roundabouts and median	Burns Boulevard to Winn-Dixie driveway	To Be Determined	Gain support then Concept Development / Design / Right-of-way / Construction

Concept Design Activities

- Initiated July 2017
- Priority Groups 1 and 2
- Coordination with FDOT Roadway, Traffic Operations and Drainage
- Two Project Visioning Team (PVT) Meetings
- Focus on Sidewalks, Bike Lanes, Transit Access, Drainage

Table 1: Summary of Improvement Potential Improvements

Priority Group	#	Description	Location	Agency Lead	Potential Phases Needed
I	1.a	Sidewalks - North Side	South Patrick Drive to SR A1A	To Be Determined	Concept Development / Design / Construction
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	3	SR A1A Intersection - remove continuous right turn lanes, extend median	Eau Gallie Boulevard at SR A1A. Median changes along Eau Gallie	To Be Determined	Concept Development / Design / Construction
II	4a	Bridge sidewalk and connection of bike lanes	Relief Bridge to SR 513 / South Patrick Drive	To Be Determined	Concept Development / Design / Right-of-way / Construction
	4b	SR 513 / South Patrick Drive Intersection - repurpose westbound lanes (1 left, 2 through, 1 right)	Intersection of Eau Gallie Boulevard and SR 513 / South Patrick Drive	To Be Determined	Concept Development / Design / Right-of-way / Construction
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PVT Meetings

- Invited representatives of:
 - Florida Department of Transportation (FDOT)
 - Space Coast TPO
 - Indian Harbour Beach
 - Melbourne
 - Brevard County
 - Brevard County School Board
 - Space Coast Area Transit (SCAT)
 - Florida Space Coast Office of Tourism
 - Advocacy Groups
 - Keep Brevard Beautiful
 - East Coast Greenway Alliance
 - Business Owners

PVT Meetings

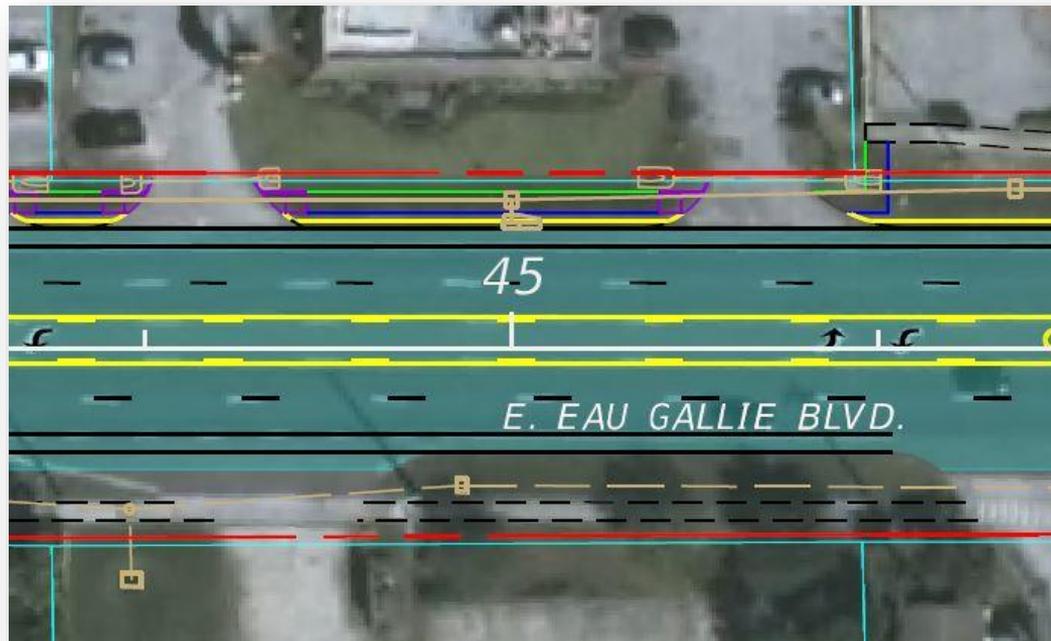
- Two meetings
- Continuation of Concept Planning Study Team
- Assist in Focusing Issues and Refinement of Concepts

SR 518/Eau Gallie Beachside Concept Development Study Project Visioning Team Meeting #1				
Name	Agency	Address	Phone #	Email
Devin Swanson	B.C. Traffic Ops	2725 Judge Fran Jamieson Way	633-2077	devin.swanson@bc.ca
David Burton	IH&PD		773-3030	DBurton@melbourne.gov

SR 518/Eau Gallie Beachside Concept Development Study Project Visioning Team Meeting #1				
Name	Agency	Address	Phone #	Email
Travis Swain	WANA H&E Bldg	2055 South Pineapple Dr., Titus, FL 32437	321-778-2181	tswain@wanaworld.com
Laura Carter	SCTPO	2725 Judge Fran Jamieson Way, Melbourne, FL 32940	321-690-6890	laura.carter@melbourne.gov
Rachelle Banken	Bradford Public Schools	2300 Judge Fran Jamieson Way, Melbourne, FL 32940	321-671-7776	banken.rachelle@bradfordschools.org
Janna Taylor	FDOT	719 S Woodland Blvd, Deland, FL 32720	386-943-5121	jtaylor@fdot.com
Kim Smith	SCTPO	2725 Judge Fran Jamieson Way 32940	321-690-4810	kim.smith@melbourne.gov
Abby Rex	SCTPO	2725 Judge Fran Jamieson Way 32940	321-690-6890	abby.rex@melbourne.gov
Tami Glickson	City of Melbourne	910 E. Strawbridge Ave, Melbourne, FL 32901	(321) 608-7511	tglickson@melbourne.gov
Mark Ryan	Stinson Industries	2055 S. Patricia Dr. JHS 32937	321-773-3151	mark.ryan@stinson.com
Todd Corwin	Melbourne	900 E Strawbridge Ave, Melbourne 32901	321-608-7500	todd.corwin@melbourne.gov

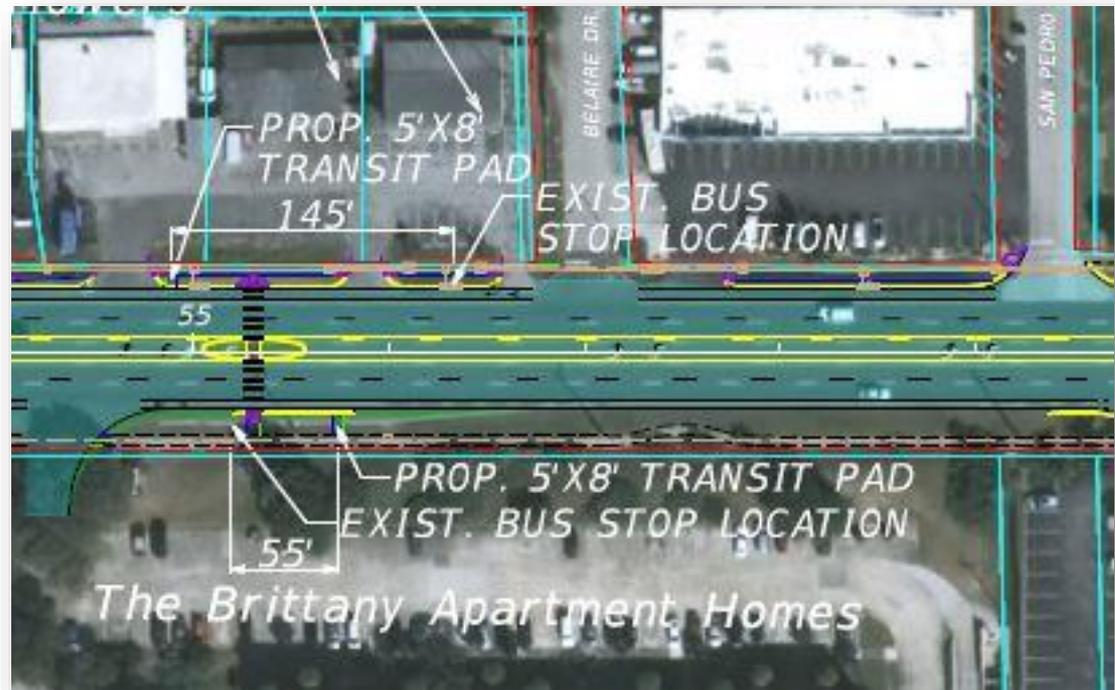
Sidewalk

- North and south side of S.R. 518
- Connect to existing
- Requires Closed Drainage



Mid-Block Crossings

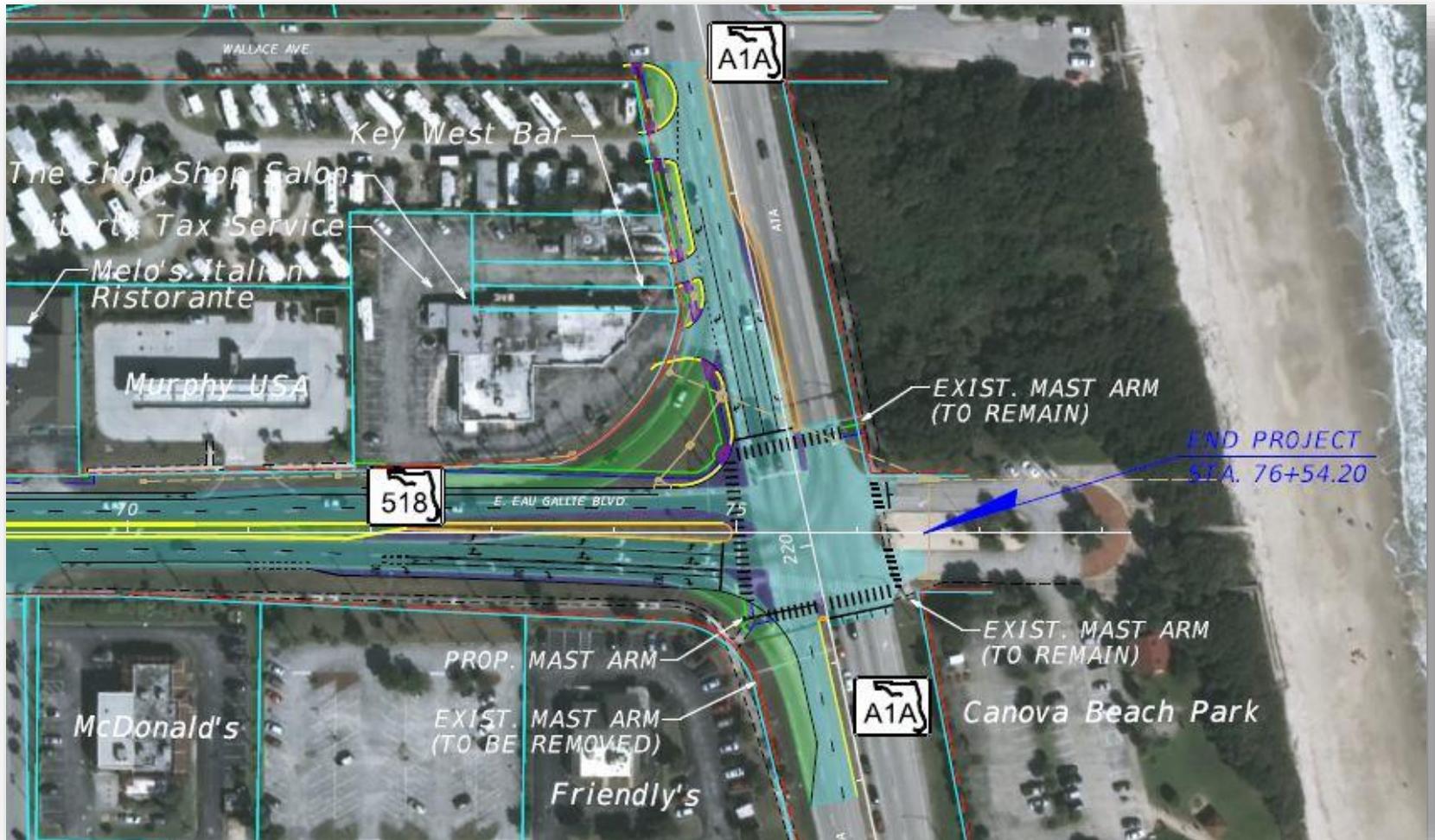
- Locations
 - Near Burns Boulevard
 - Transit Stops
- Visibility
 - Rectangular Rapid Flashing Beacons (RRFB's)



S.R. A1A Intersection

- Removal of Free-flow Right Turns
 - Accommodates pedestrian crossing
- Remove weave condition on Southbound S.R. A1A
- Extend median on S.R. 518 to the west
 - No conflicts with queuing traffic

S.R. A1A Intersection



Transit

- Locations of Transit Stops
 - Minor relocation
 - Reviewed by SCAT
- Boarding/Alighting Pads



Right Turn Lanes

- All Permitted
- Keyholes Impact Existing Drainage



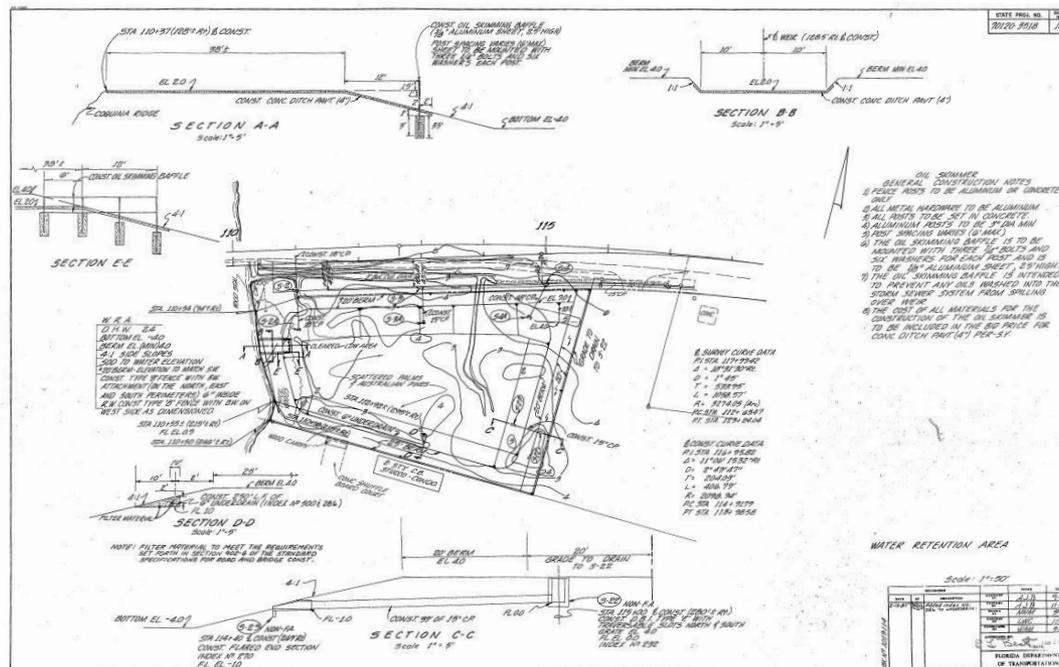
Drainage

- Existing System
 - Ditches and Stormsewer
 - Conveyed to Pond west of S.R. 513
- Potential Drainage Concepts not Analyzed in Previous Phase



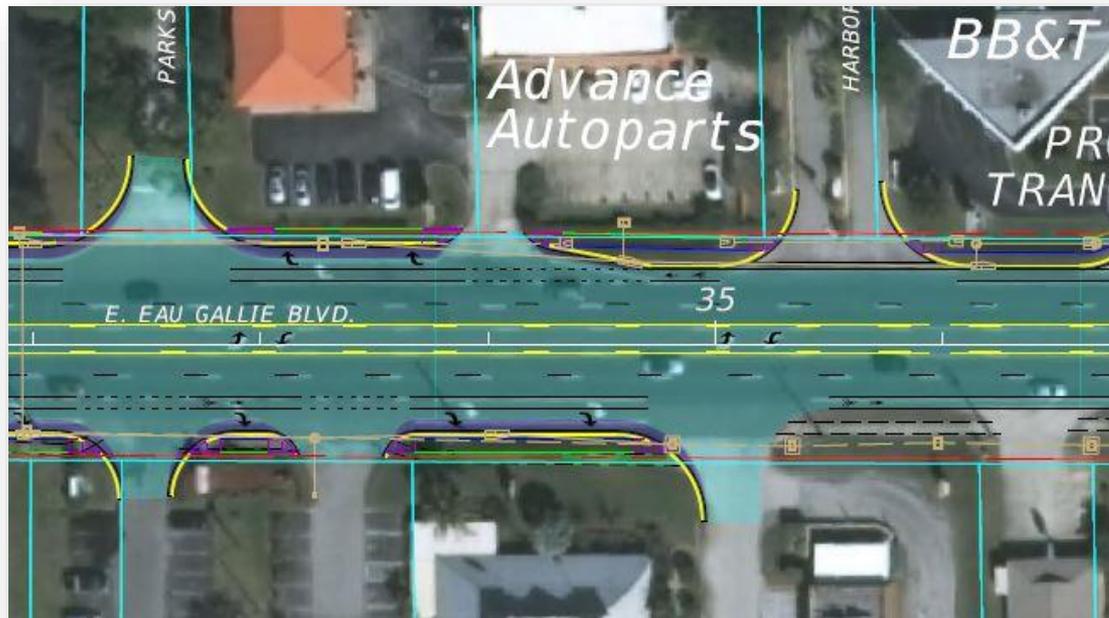
Existing Drainage System

- Stormwater Ponds
 - Large pond south of S.R. 518, west of S.R. 513
 - Two smaller ponds north and south of S.R. 518
 - Built as part of 1984 intersection improvements



Potential Drainage Concepts

- Additional Impervious Areas
 - Sidewalk to north
 - Bicycle Keyholes at Right Turn Lanes
 - Reduces/Eliminates conveyance swales



Potential Drainage Concepts

- Closed drainage system (curb/gutter/inlet) where swale not feasible
 - New sidewalk
 - Widening at right turn lanes for bicycle keyholes



Potential Drainage Concepts

- Stormsewer
 - Construction of new trunk line / Reconstruction of existing trunk line
 - Pond treatment
 - Expand Existing Pond
 - Impacts to Utilities
 - S.R. 513 Intersection
 - Detailed analysis during Final Design



Indian River Relief Bridge

- Barrier separated pedestrian accommodations on south side
- Safe crossing from north to south at S.R. 513
- Safe protected route to Eau Gallie Causeway Boat Ramp and Indian River Bridge fishing pier
- Maintain existing conditions at relief bridge
 - Discussions with FDOT Design and Traffic Operations
 - No safe crossing north to south across S.R. 518 west of S.R. 513
- Separate Trail Project to be Placed on SCTPO Trail Priority List

Estimated Project Costs

- Design
 - ~\$500,000
- Construction
 - ~\$5,300,000
 - Includes Maintenance of Traffic, Mobilization and 10% contingencies



Next Steps

- Public Meeting
 - August 1st at IHB City Hall at 5:30 p.m.
- Refine Alternatives
- Documentation
- Final Design
 - Not funded





Questions & Discussion

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