US 278 Corridor Improvements

US 278 Corridor Improvements Stakeholder Meeting #5
May 28, 2020









Project Management



Purpose & Need

The purpose of this project is to address structural deficiencies at the existing eastbound Mackay Creek bridge, and reduce congestion along US 278 from Moss Creek Drive to Spanish Wells Road.













Start the Environmental Assessment

Public Information Meeting

Perform Technical Studies 2

Develop Alternatives (3)

Analyze Alternatives

Second Public Information Meeting 5

Develop Preferred Alternative 6

Prepare Environmental Assessment 7

Public Hearing (8

Revise Alternative 9

FHWA Decision (1



Alternatives Update







Reasonable Alternatives



US 278 Reasonable Alternatives

All reasonable alternatives meet the purpose & need of the project and result in impacts on Pickney Island National Wildlife Refuge, Floodplains, Threatened & Endangered Species, Essential Fish Habitat, Shellfish Harvesting Waters, Environmental Justice communities, and Cultural Resources.

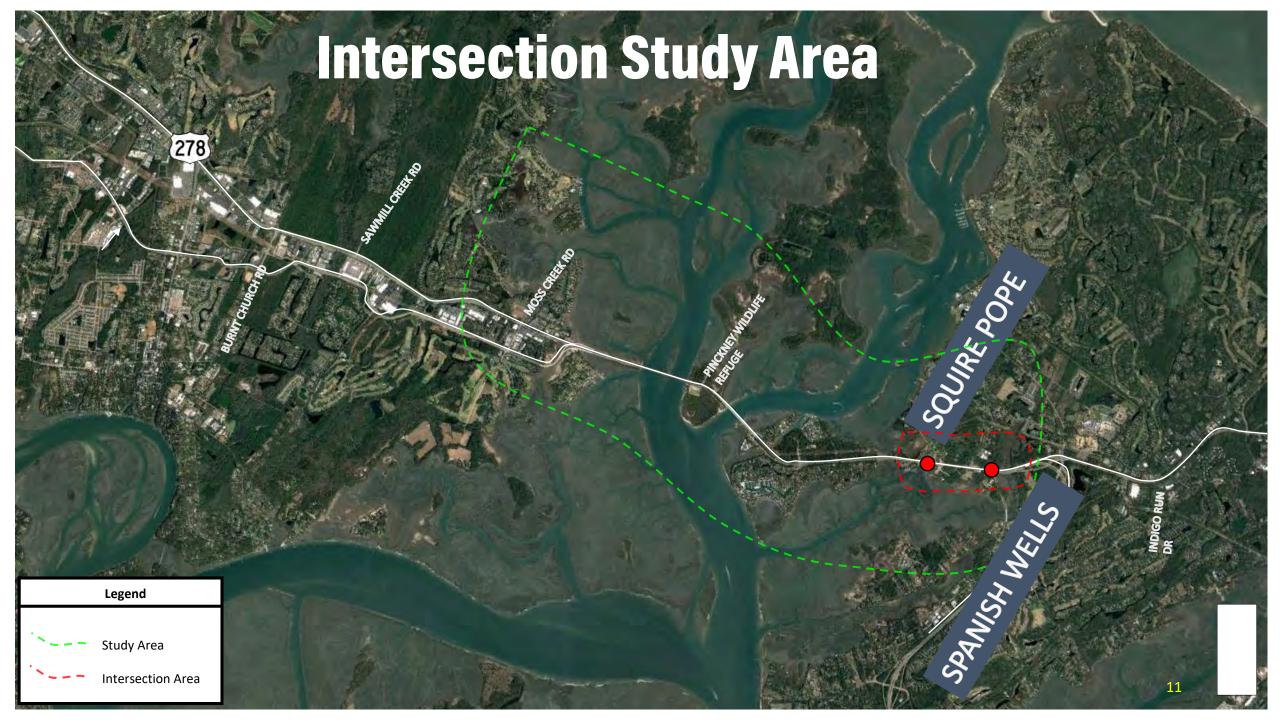


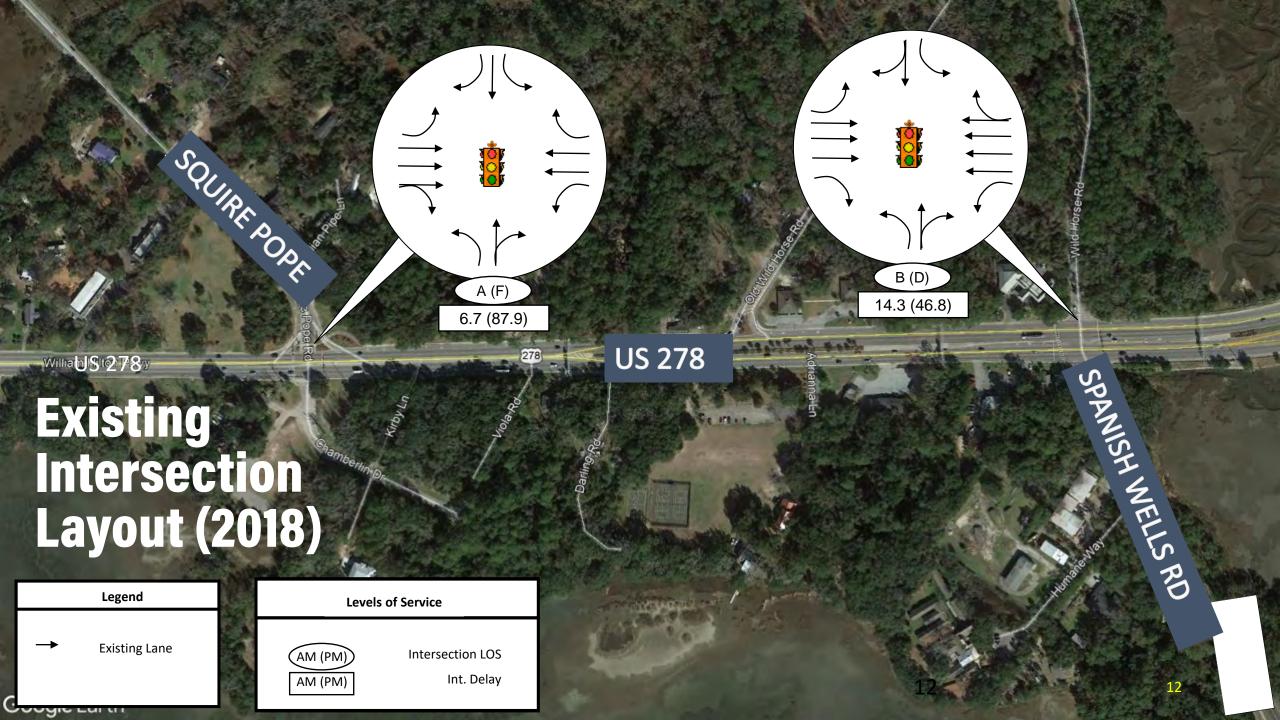
US	278	Delineated Wetlands	New Right-of- Way to be Purchased	Relocations	Meets Current Seismic Design Standards	Construction Duration
CORRIDO	OR IMPROVEMENTS	TOTAL Acres	Acres	TOTAL#	# of Structures	Years
	RA 1	19.28	28.1	10	1 of 4 (eastbound Mackay Creek)	5
Reasonable Alternatives	RA 2	18.4	27.2	10	1 of 4 (westbound Mackay Creek)	5
	RA 3	19.3	31.5	10	2 of 4 (eastbound Mackay Creek and eastbound Skull Creek)	5
	RA 4	18.9	35.2	11	4 of 4 (both Mackay Creek and both Skull Creek)	3
	RA 4A	18	36.8	11	4 of 4 (both Mackay Creek and both Skull Creek)	3
	RA 5	30.5	63.9	17	2 of 4 (eastbound Mackay Creek and eastbound Skull Creek)	5.5
	RA 5A	26.9	63.3	20	2 of 4 (eastbound Mackay Creek and eastbound Skull Creek)	5.5
	RA 6	29.8	71.7	18	4 of 4 (both Mackay Creek and both Skull Creek)	3.5
	RA 6A	25.3	72.3	21	4 of 4 (both Mackay Creek and both Skull Creek)	3.5



US 278 Intersection Concepts







Explored Intersection Concepts

Jughandle

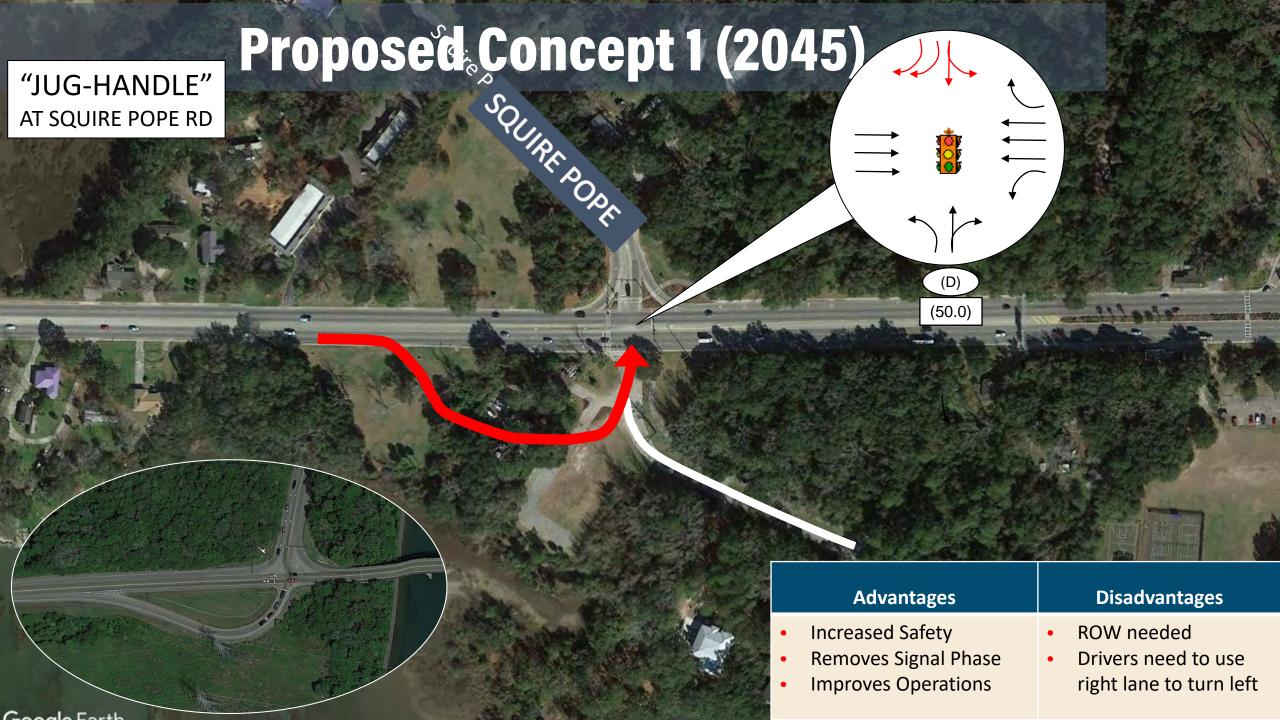
- Displaced Left
- 3. Continuous Green T
- 4. Flyover

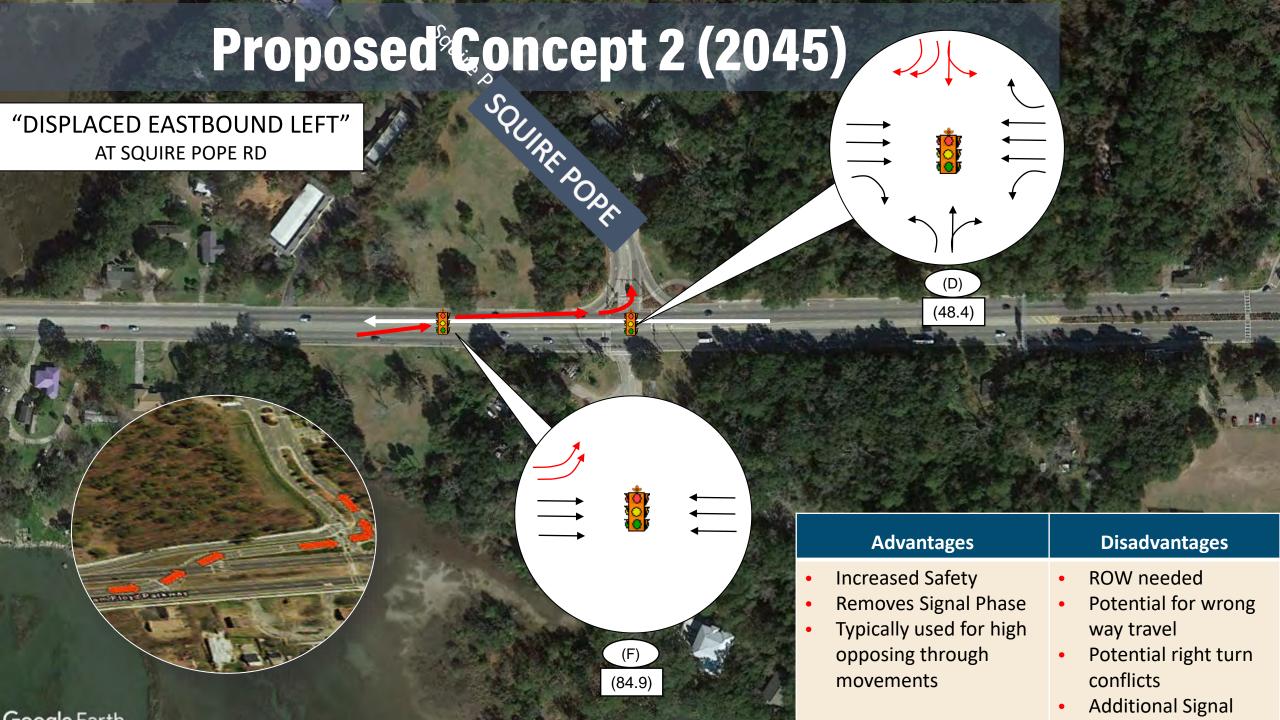
- Detour Northbound Left
- 6. Half Diamond Interchange
- 7. Flyover
- Displaced Left
- 9. Maximize Lanes
- 10. Remove Lefts from Squire Pope & Spanish Wells Signalize Old Wild Horse
- 11. Two T-Intersections at Old Wild Horse & Spanish Wells
- 12. Roundabouts with Underpass at Spanish Wells
- 13. Roundabouts for Left Turn Movements
- 14. Viaduct

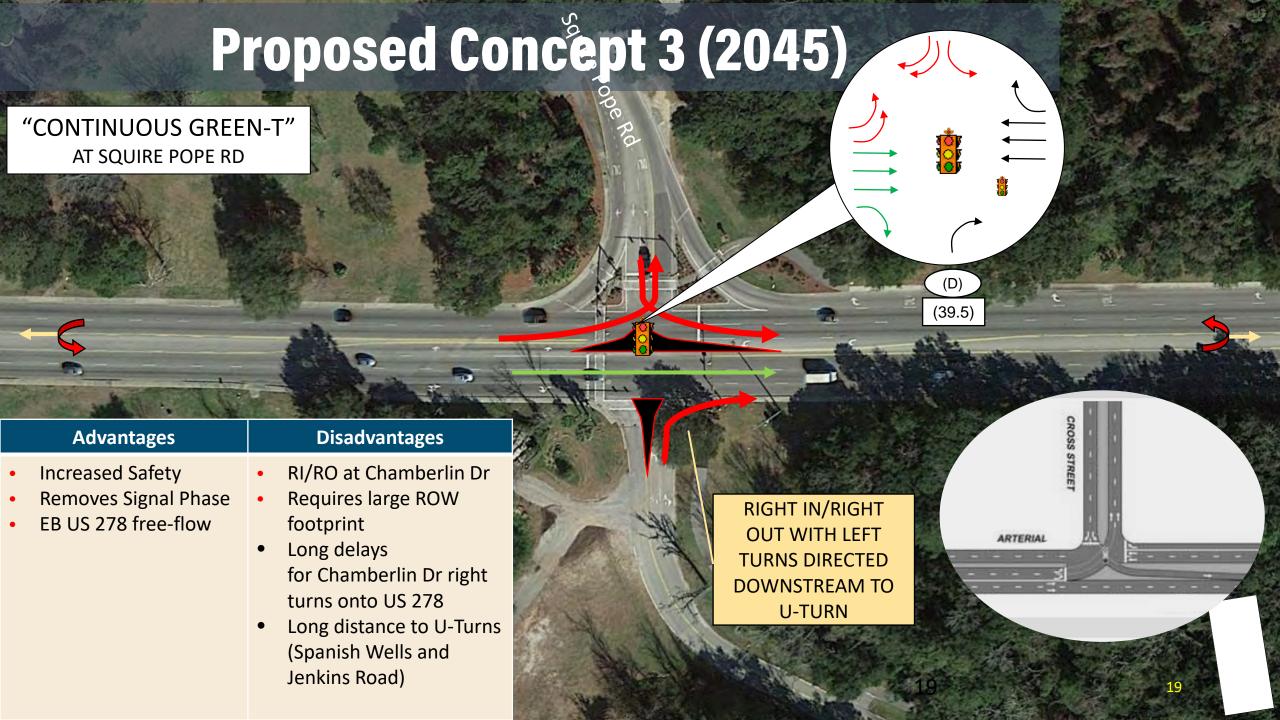


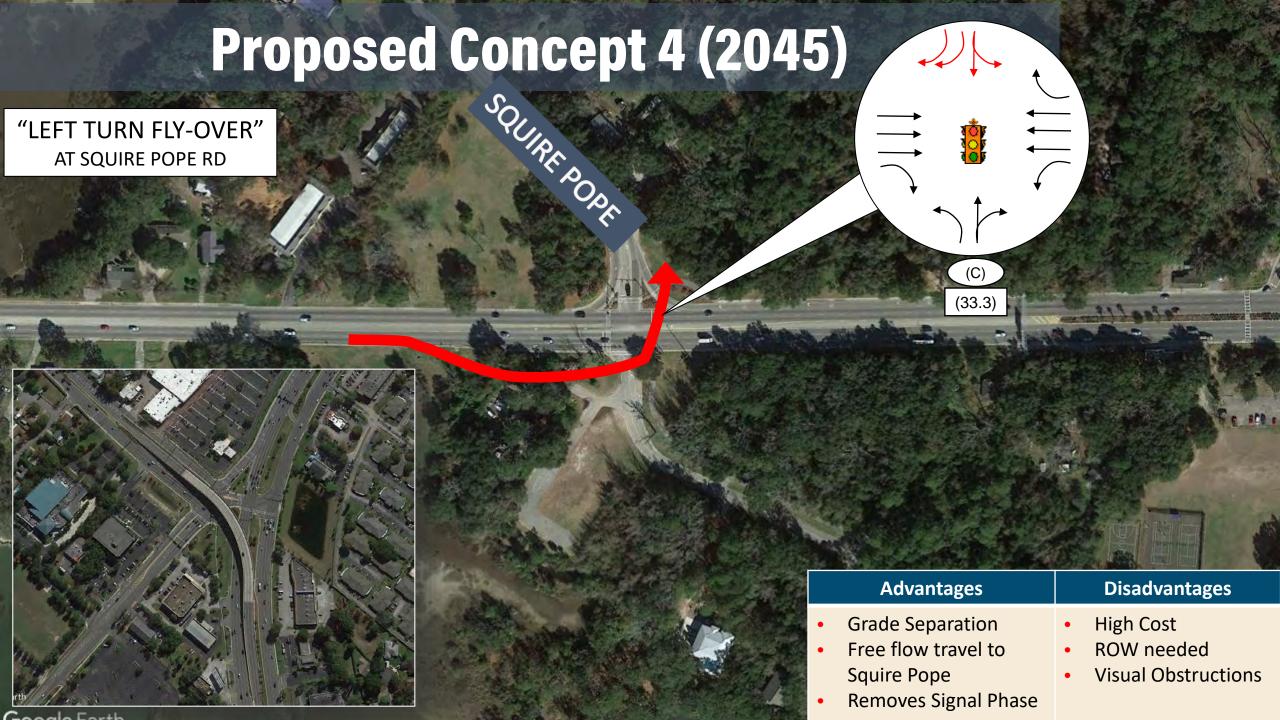


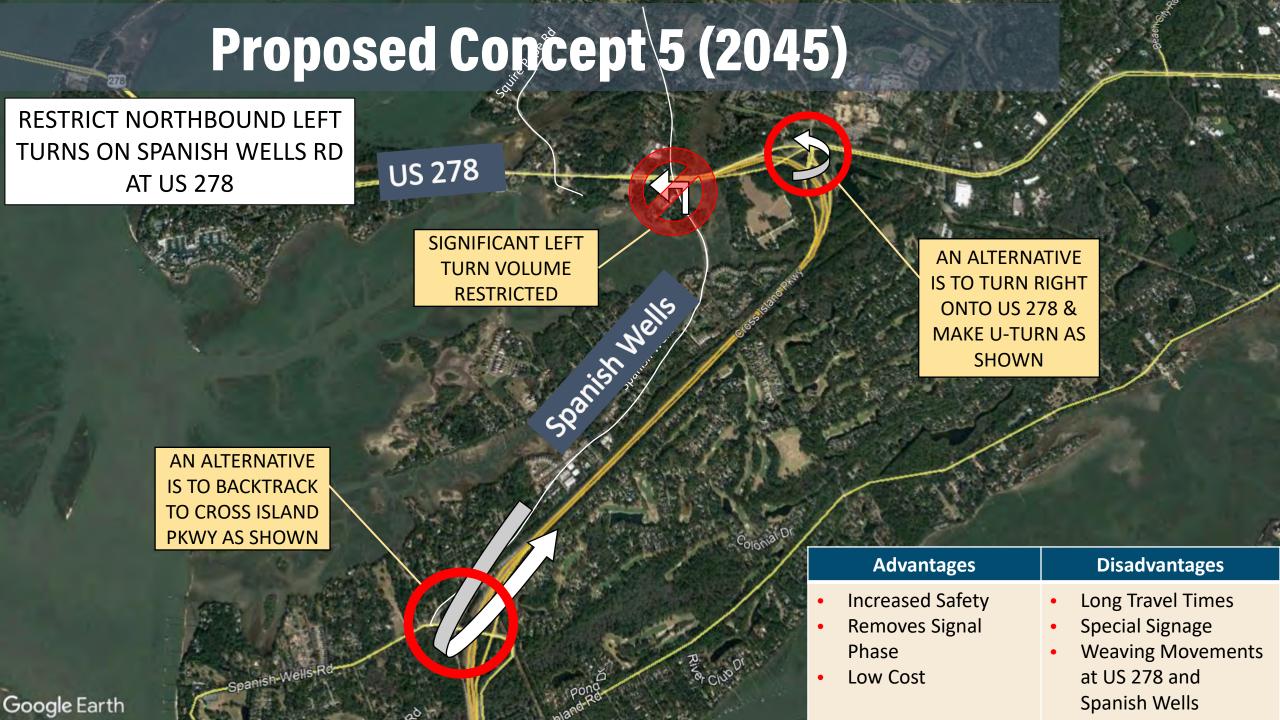


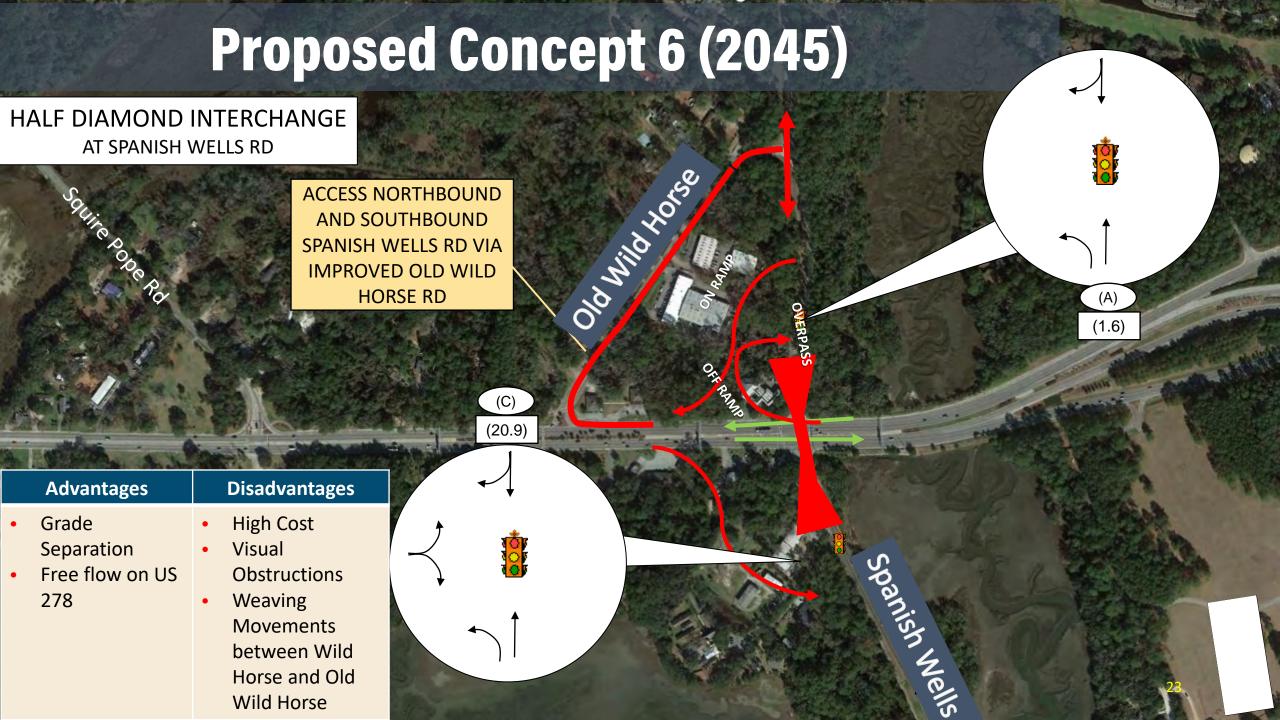


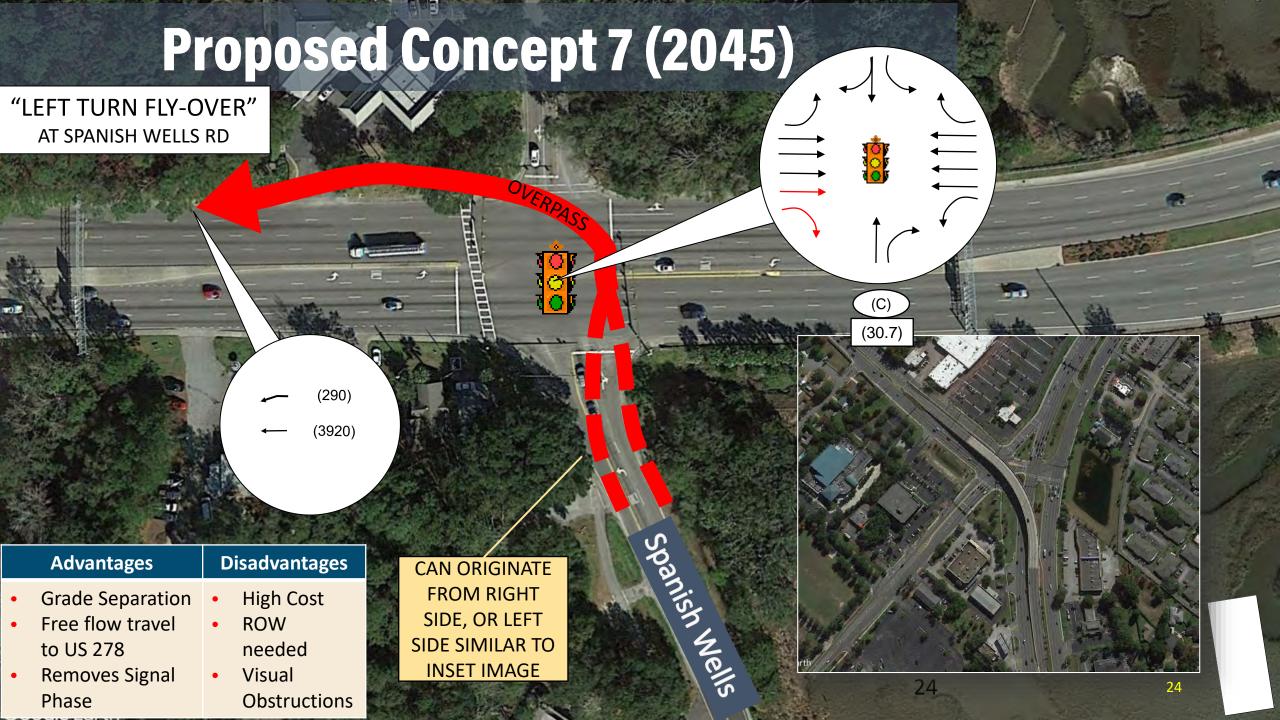


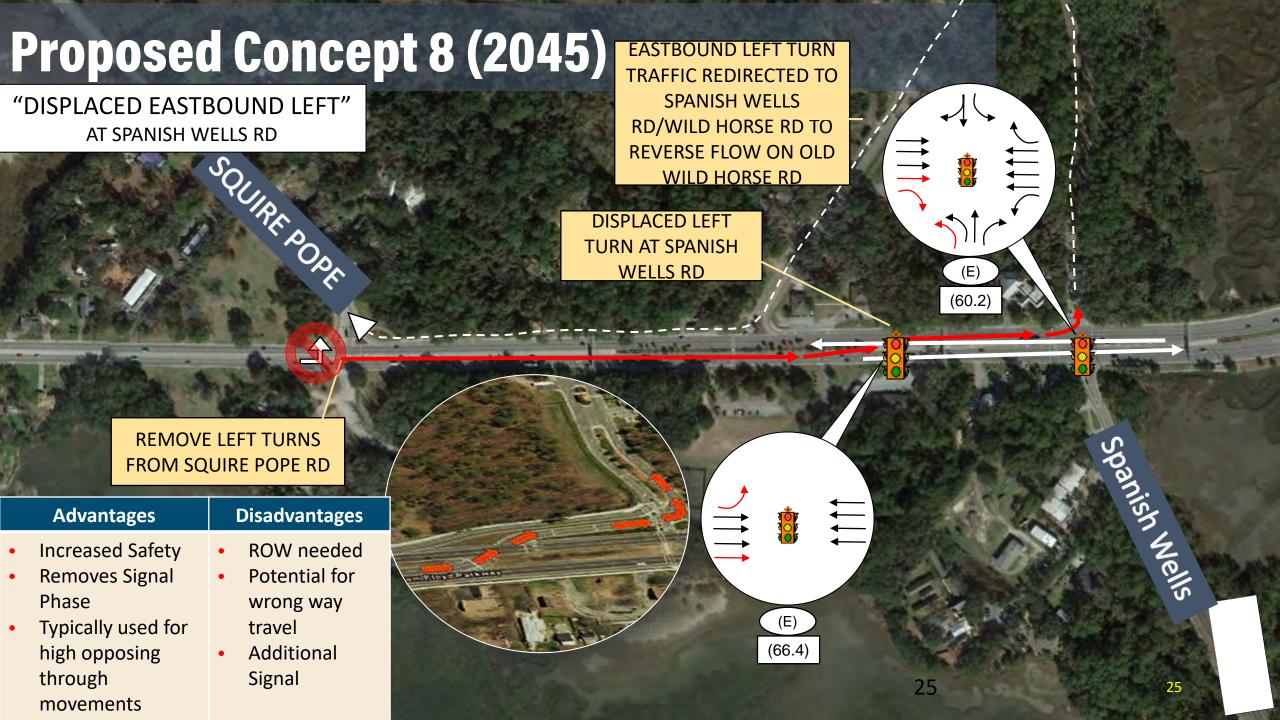


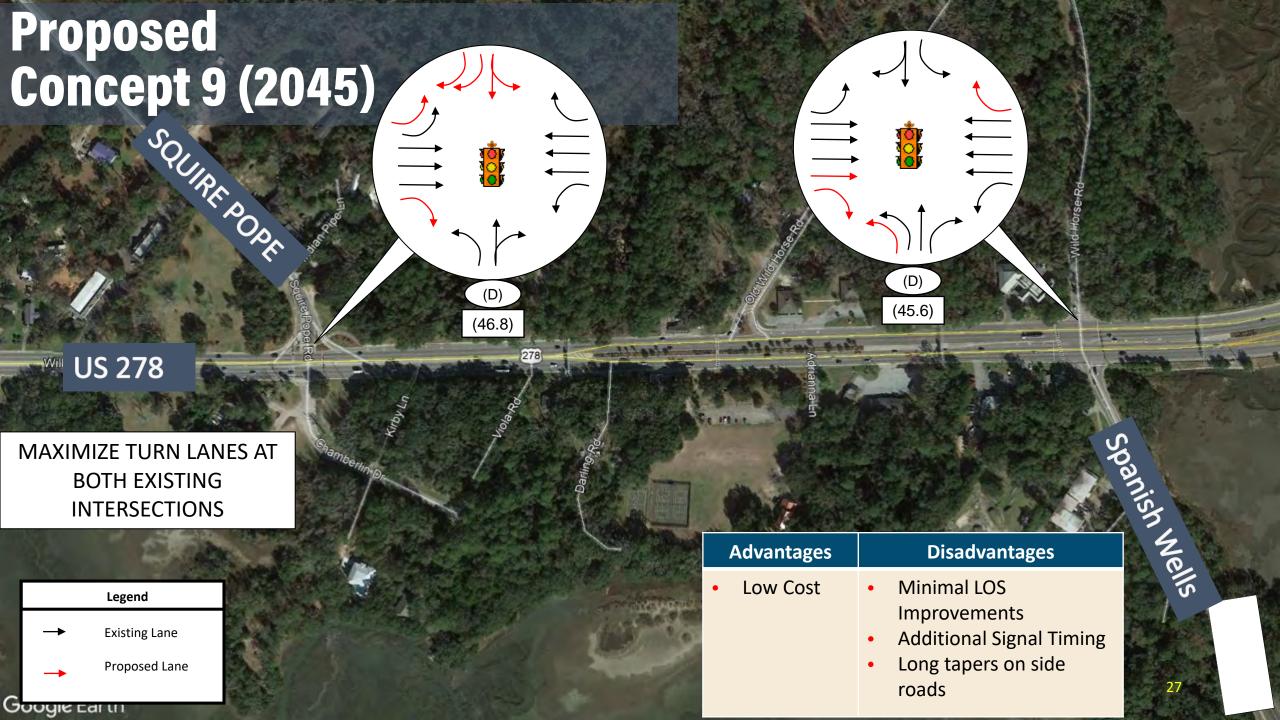






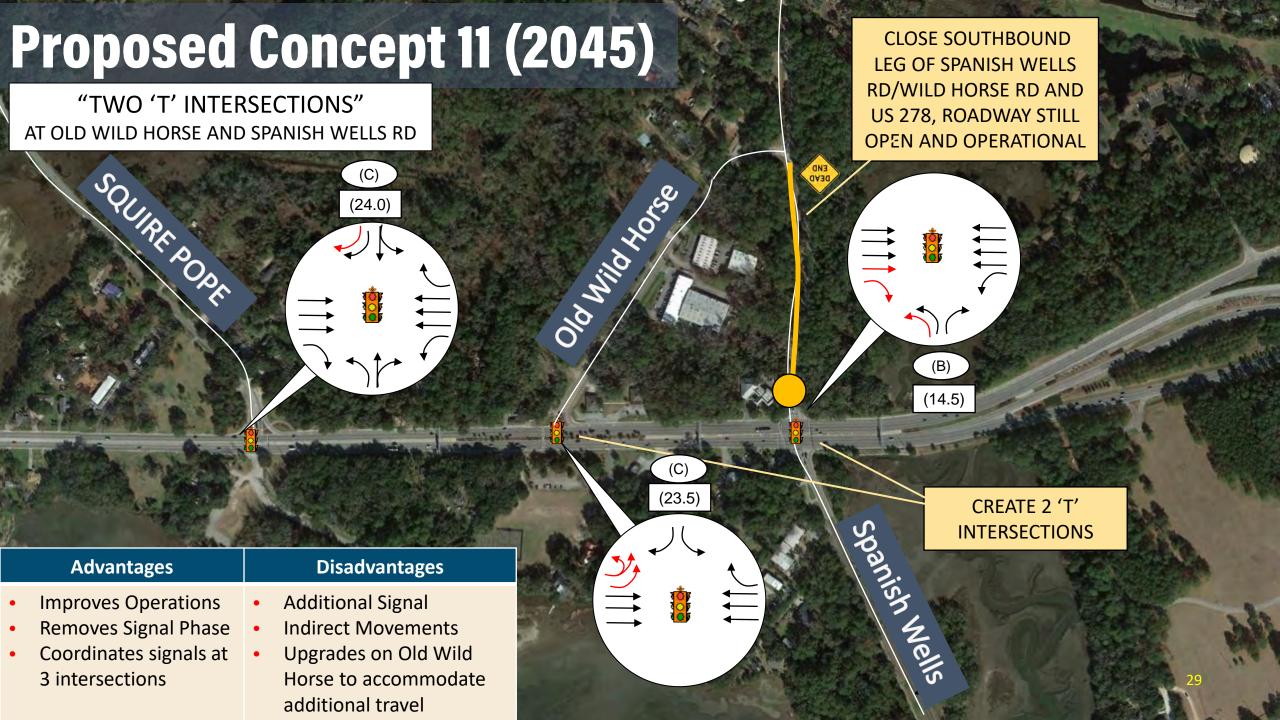


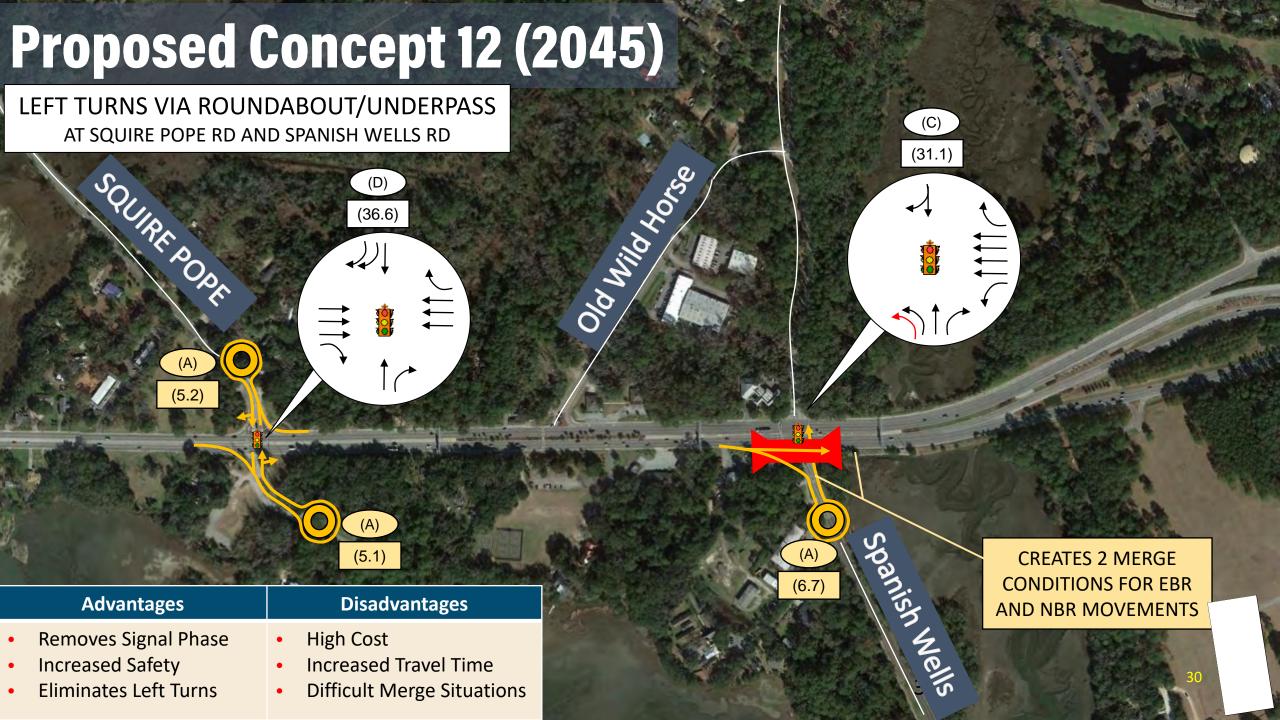


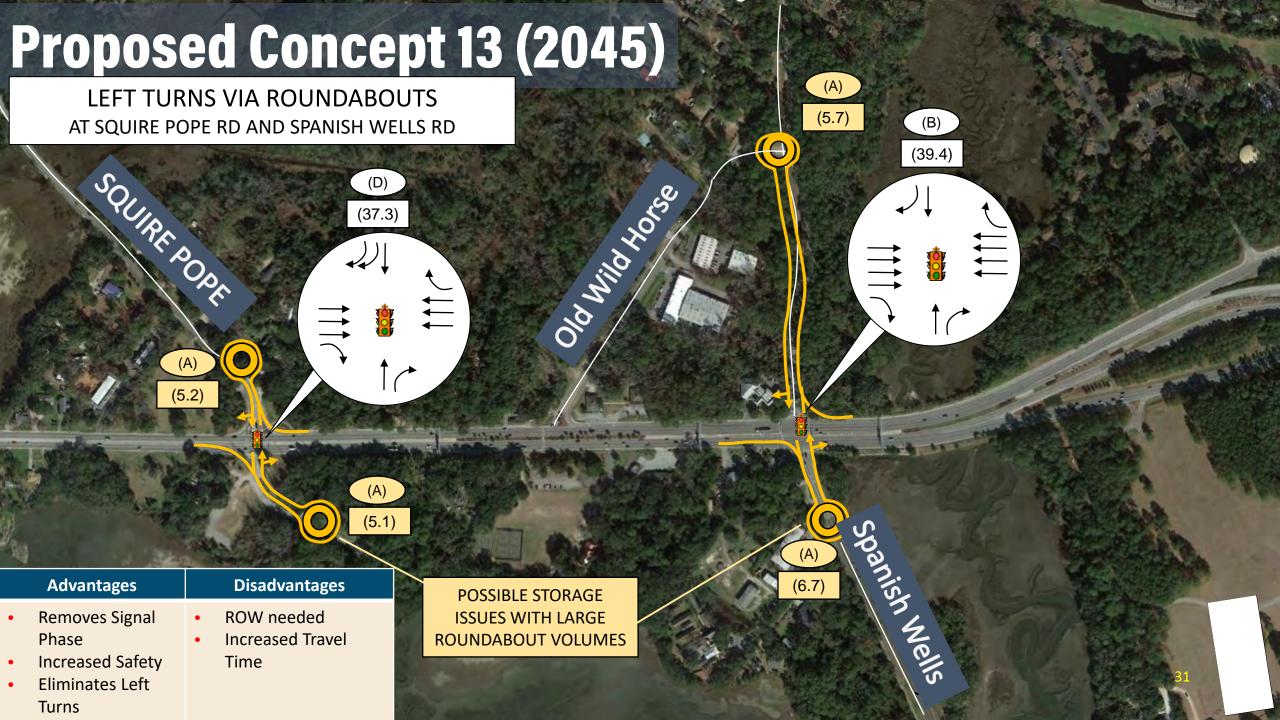


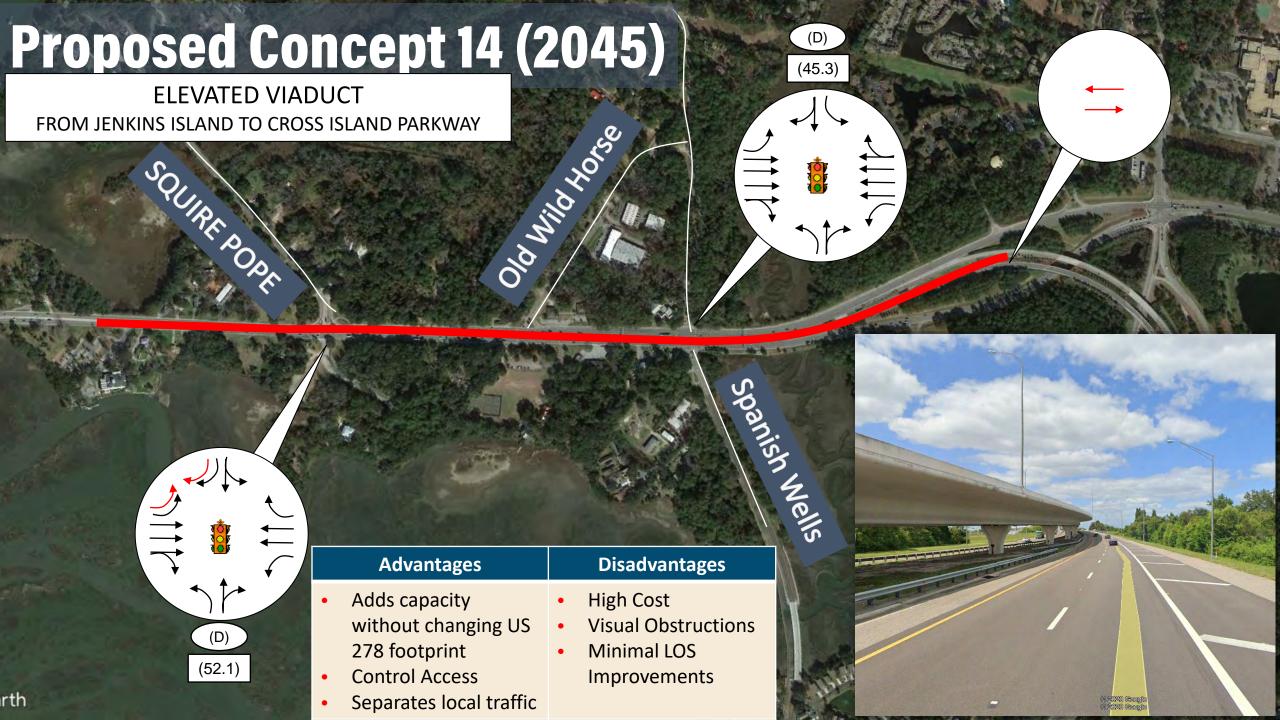
Advantages Disadvantages Proposed Concept 10 (2045) Increased Safety Additional Signal Removes Signal Phase Special Signage **Low Cost** Upgrades on Old Wild "SIGNAL WITH LEFT TURNS DIVERTED FROM Consolidates left Horse to accommodate SQUIRE POPE RD AND SPANISH WELLS RD" additional travel turns AT OLD WILD HORSE RD ADD LEFT TURN/ **U-TURN SIGNAL AT OLD WILD HORSE RD** (21.0)(C) (C) (25.4)(19.7)**REMOVE EASTBOUND REMOVE EASTBOUND LEFT TURNS FROM LEFT TURNS FROM** SQUIRE POPE RD SPANISH WELLS RD

Google Earth









Intersection Concepts Summary

			Level of Service						
Alternative		Squire Pope	Old Wild Horse	Spanish Wells	New Travel Pattern	ROW Acquisition	Cost	View Obstructions	Advanced?
Squire Pope	1 – Jughandle	D	-	D					Yes
	2 – Displaced Left	F/D	-	D					No
	3 – Continuous Green T	D	-	D					No
	4 – Flyover	С	-	D					Yes
Spanish Wells	5 – Restricted NB Lefts	D	-	-					No
	6 – Half Diamond Interchange	D	-	C/A					No
	7 – Flyover	D	-	С					No
	8 – Displaced Left	D	-	E/E					No
	9 – Maximize Lanes	D	-	D					Yes
ctions	10 – Signal at Old Wild Horse	С	В	С					Yes
terse	11 – Two T-Intersections	С	С	В					No
ole In	12 – Roundabouts and Overpass	D	-	С					No
Σ	13 – Roundabouts for Left Turn Movements	D	-	В					No
	14 - Viaduct	D	-	D					No



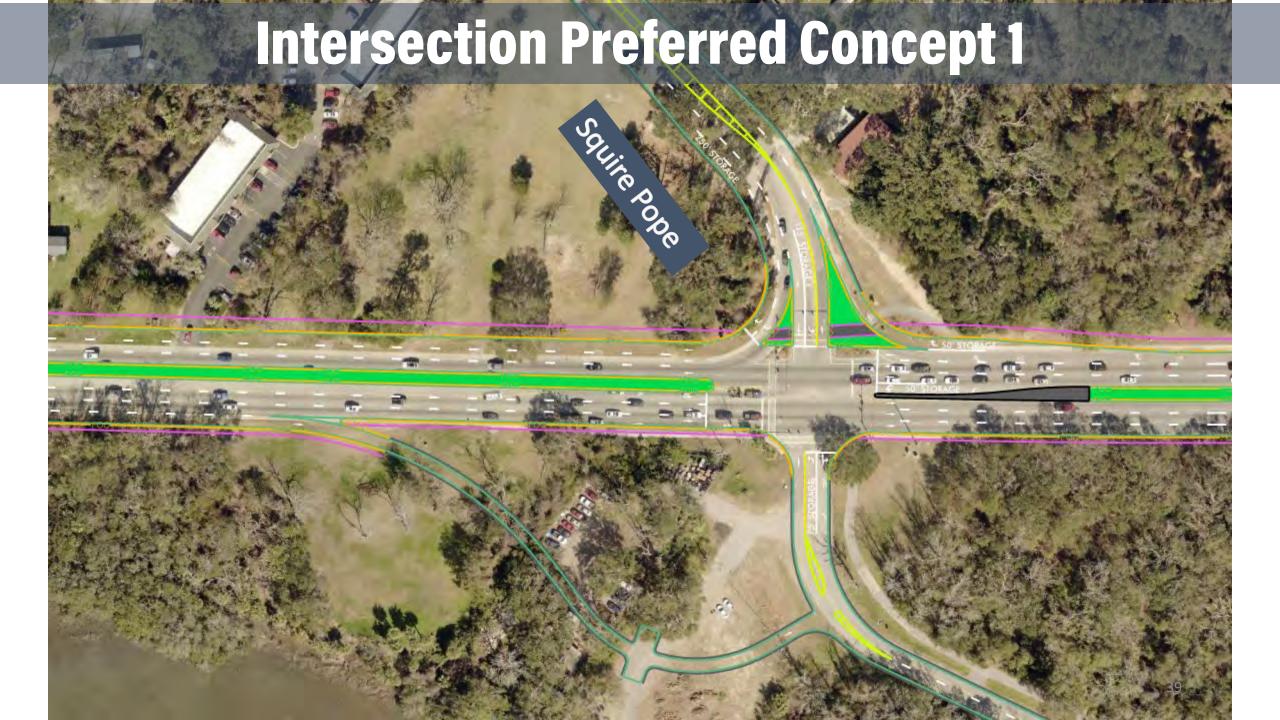
Preferred Intersection Concepts



Intersection Preferred Concept 1

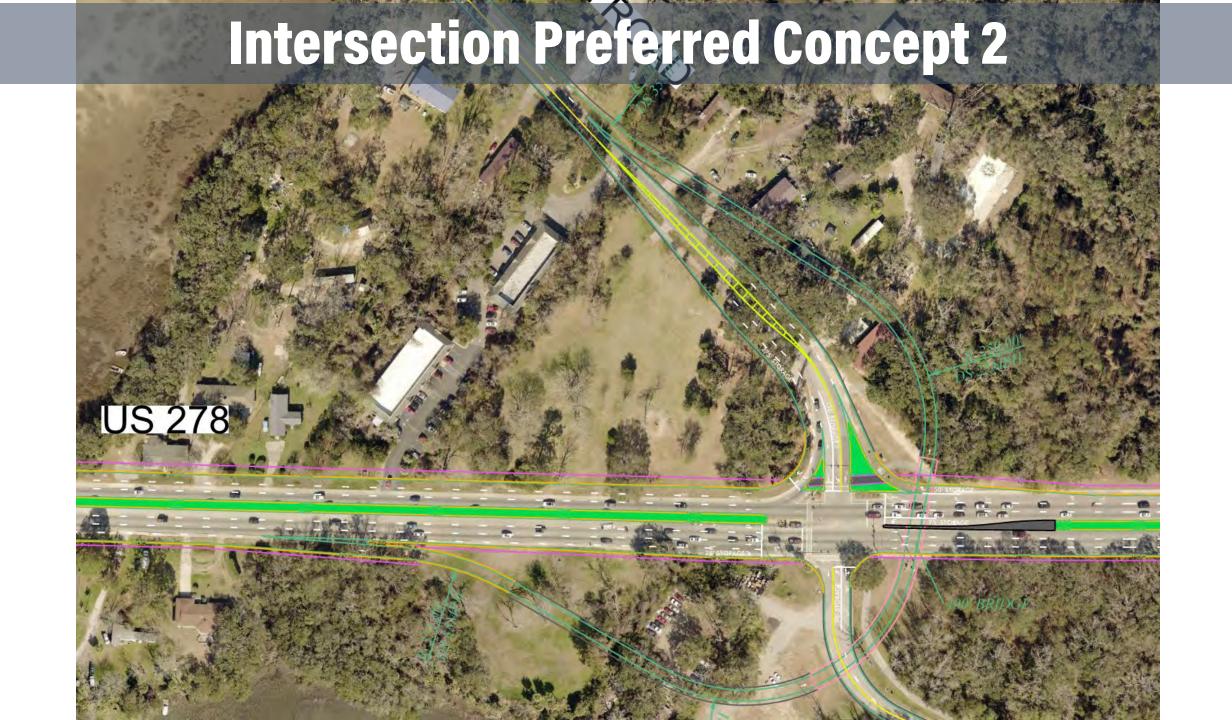


Jughandle at Squire Pope (CONCEPT)

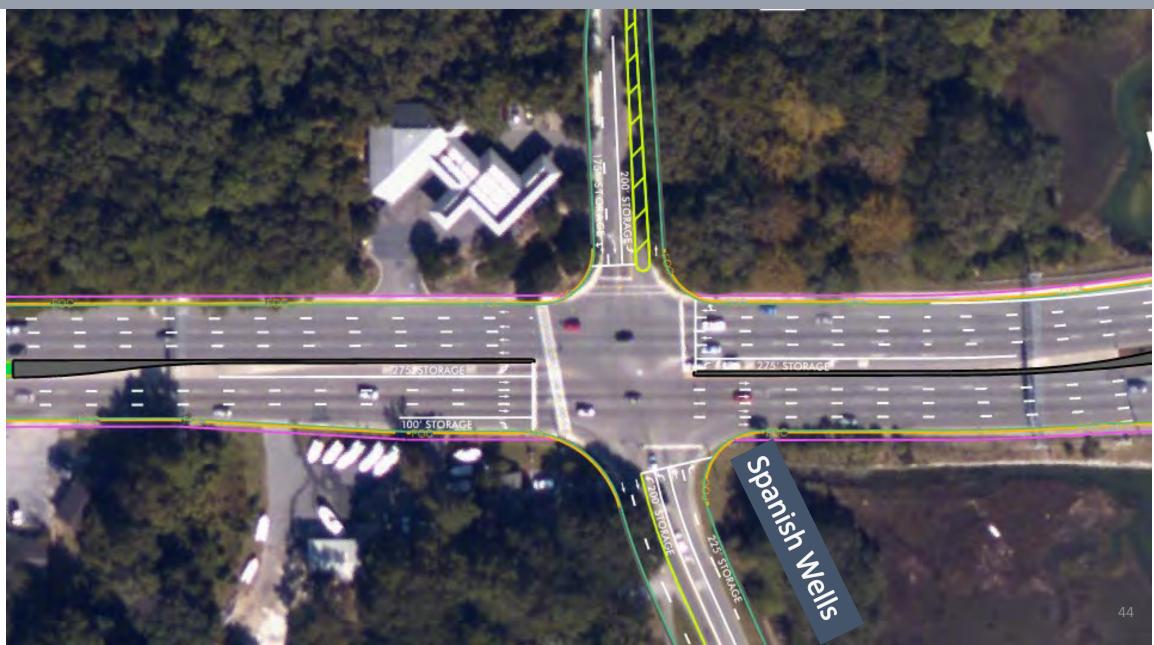


Intersection Preferred Concept 1

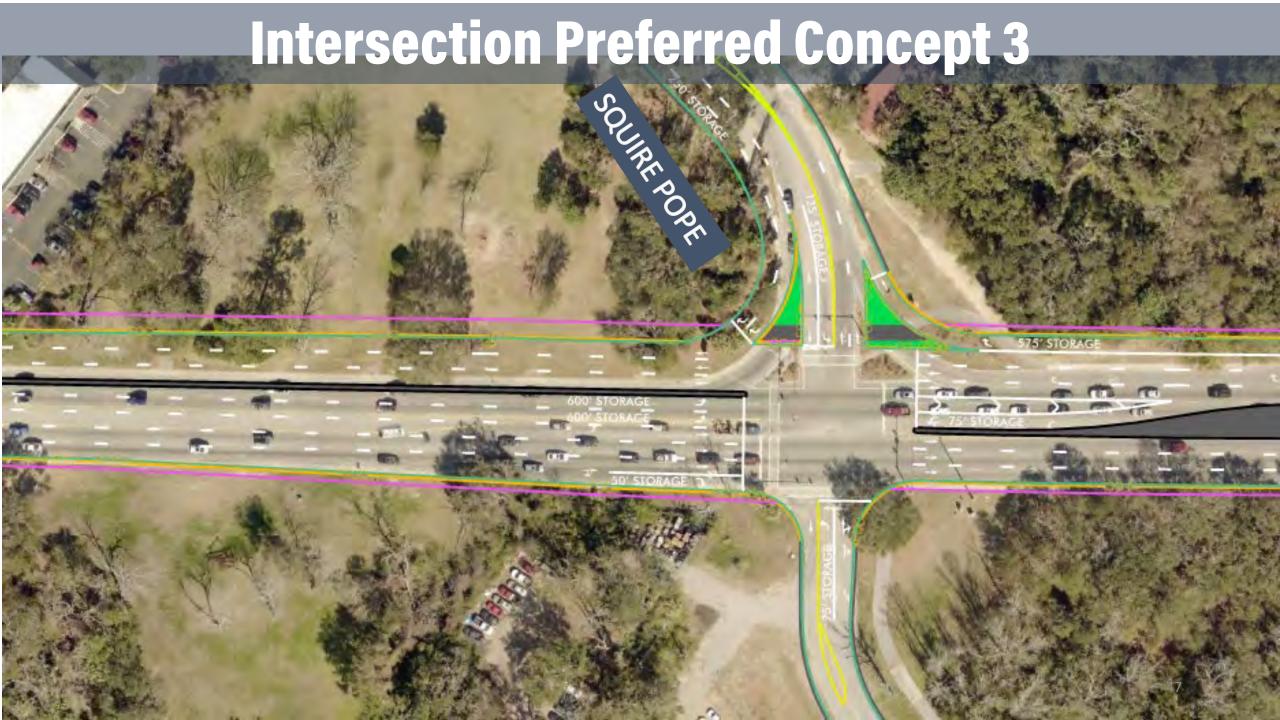
Intersection Preferred Concept 2 OV MIII OY OYOSS Flyover at Squire Pope (CONCEPT)



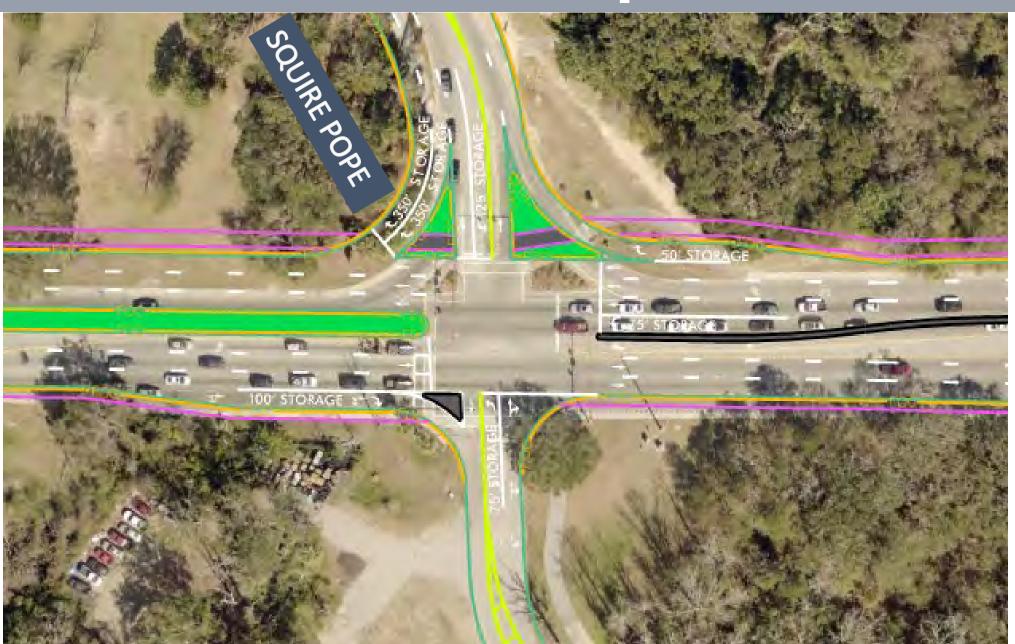
Intersection Preferred Concept 2

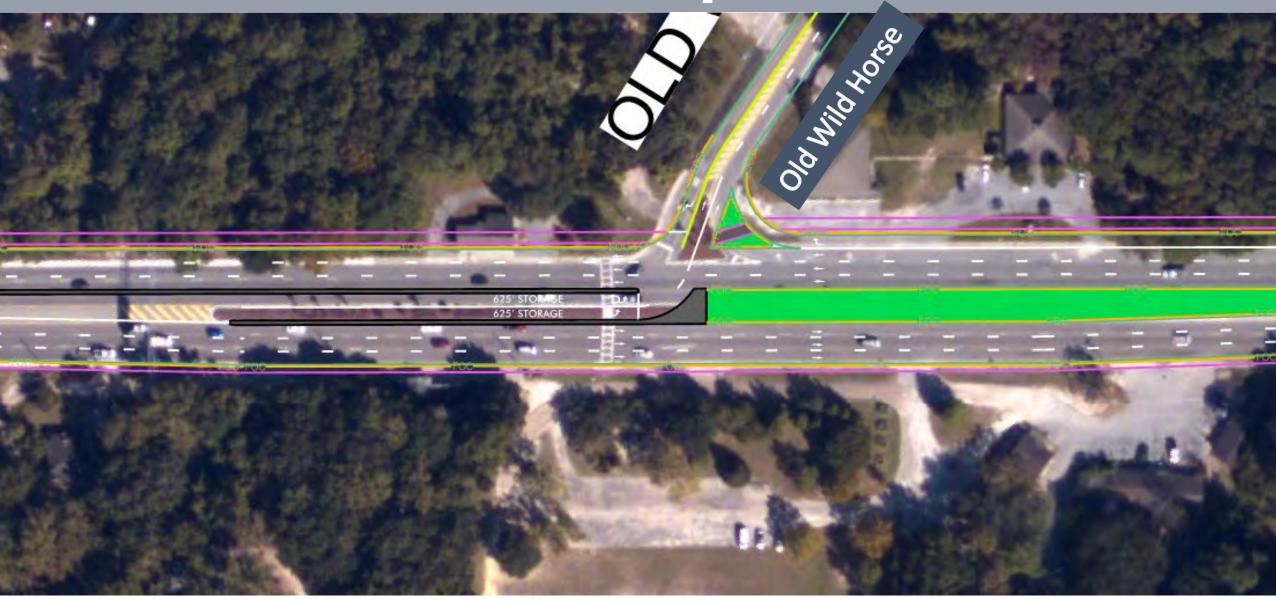


Intersection Preferred Concept 3 Old Milly Molling Andreas Maximize Lanes (CONCEPT)

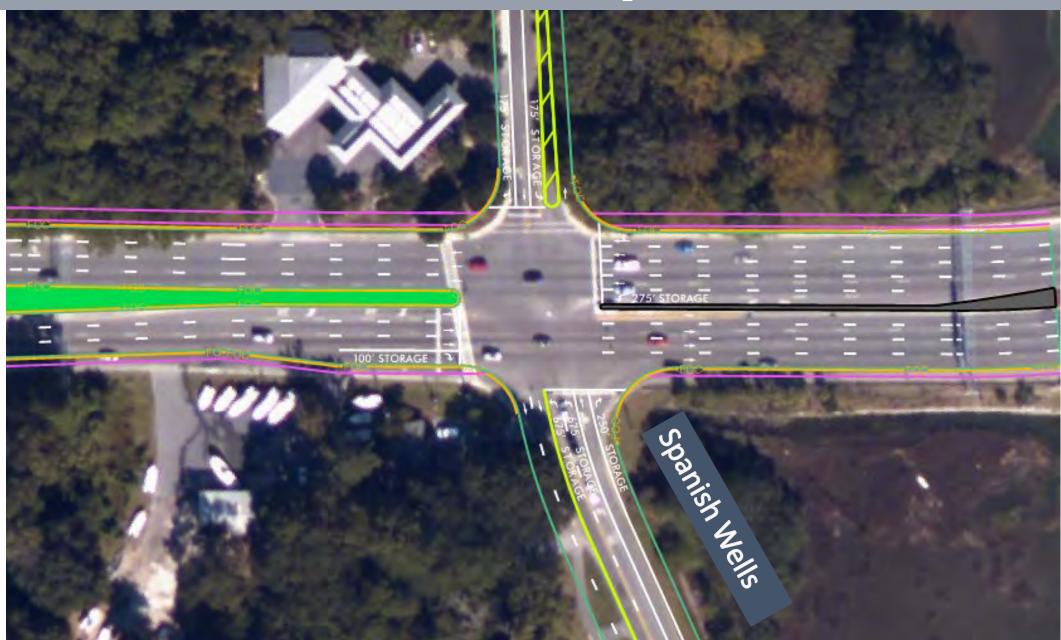


Intersection Preferred Concept 4 Oly Mily More US 218 Signalize Old Wild Horse (CONCEPT)





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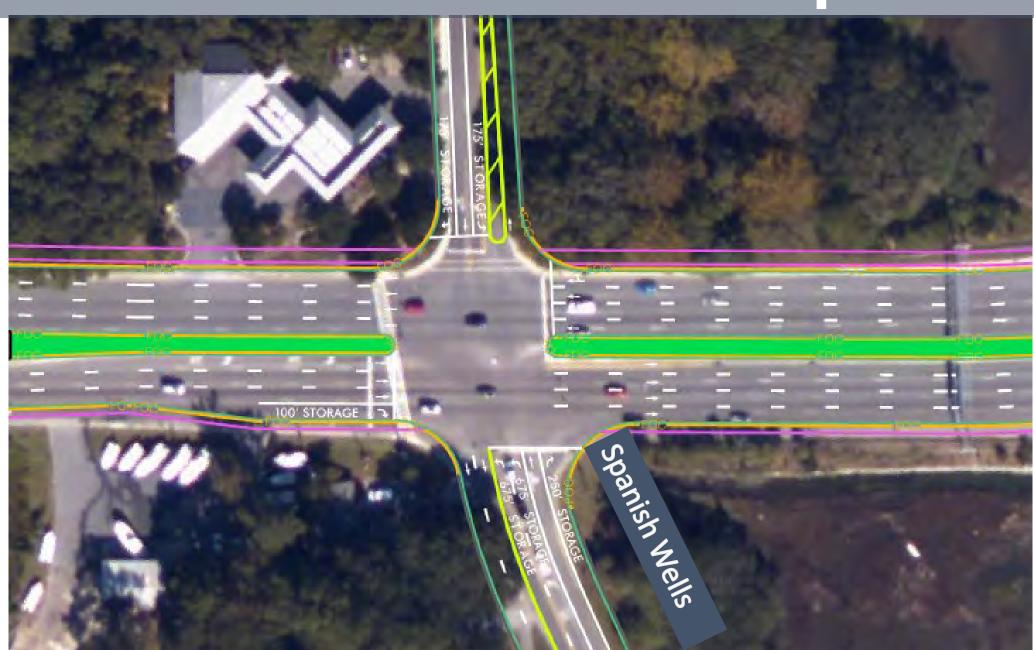


Signalize Old Wild Horse – Alt A (CONCEPT)



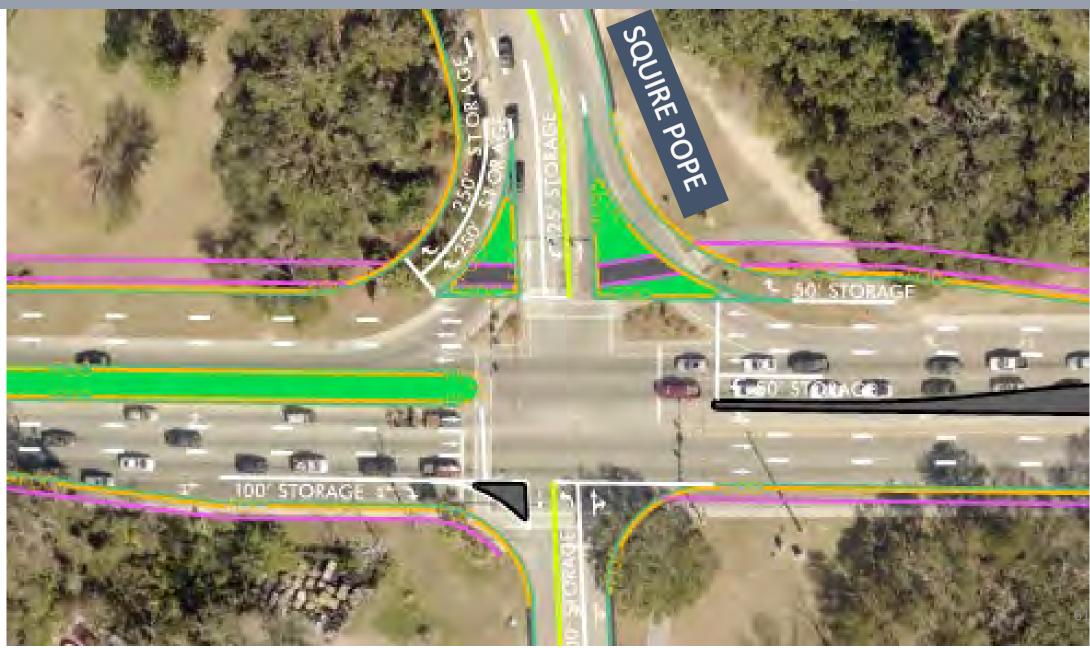
Intersection Preferred Concept 5 C 350' STORAGE

57 57



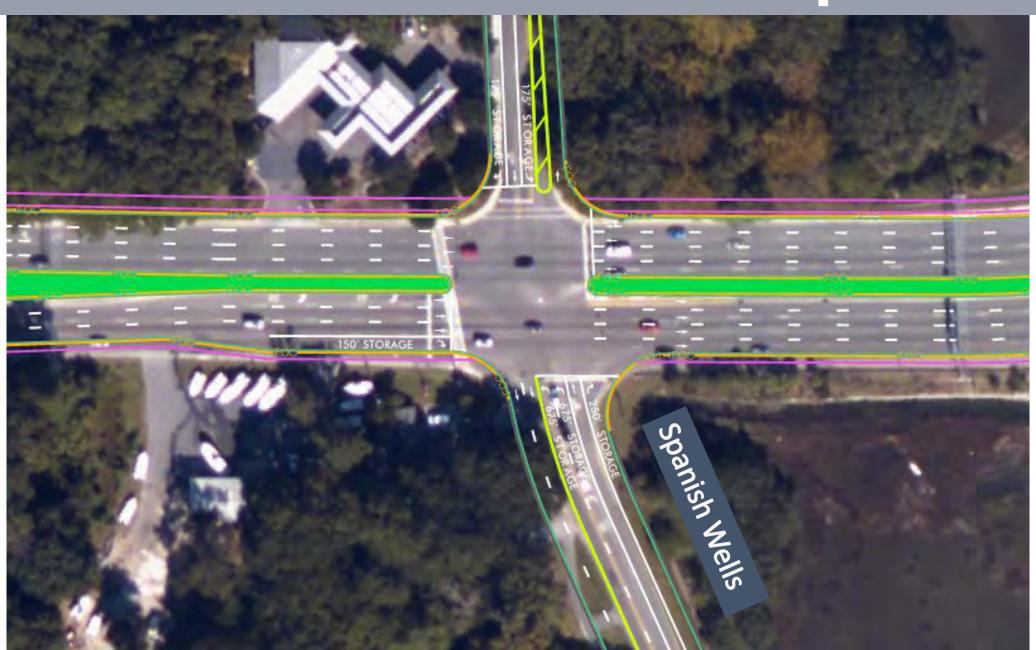


Signalize Old Wild Horse – Alt B (CONCEPT)





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Questions?

