

STAKEHOLDER STEERING COMMITTEE WORKSHOP

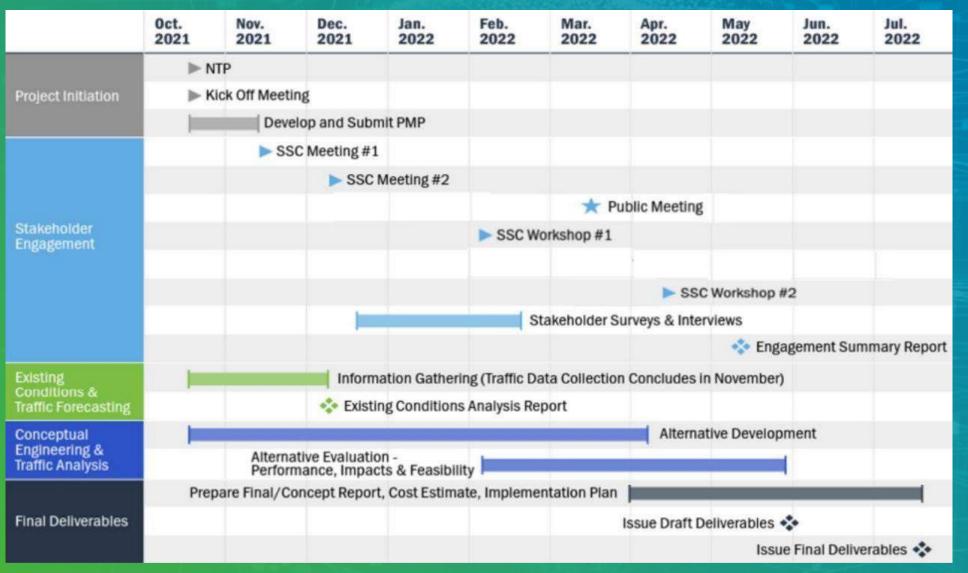
X2540; ARC No.AR-038-2020 Cobb Parkway at Windy Hill Scoping Study February 2, 2022

Hello, we're glad you're here!

AGENDA

- WELCOME
- PROJECT STATUS
- PUBLIC SURVEY RESULTS
- ALTERNATIVES GEOMETRICS & TRAFFIC IMPACTS
- EVALUATION METRICS
- NEXT STEPS

PROJECT STATUS



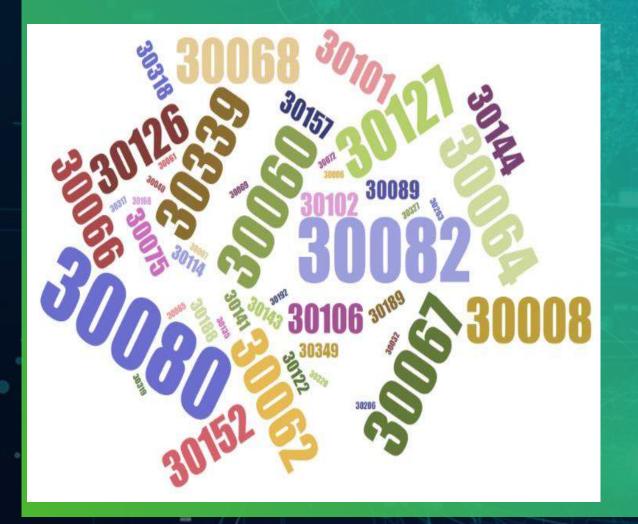
COLUMN IN

23.26

73.90

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PUBLIC SURVEY RESULTS TOTAL RESPONDENTS: 872





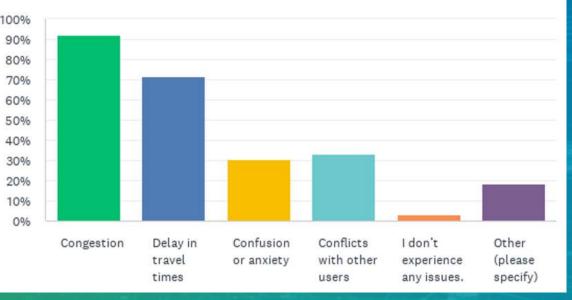
PUBLIC SURVEY RESULTS

Most Beneficial Improvements to the Intersection

Improvement	Ranking
	1
Congestion relief for vehicles	
	2
Increased capacity for vehicles	
	3
Reduced number of vehicle crashes	
	4
Safer pedestrian facilities	
	5
Safer bicycle facilities	

Biggest Safety Issues

Safety Issue	Ranking
Signal timing	1
Driver behavior – speeding, aggression, illegal movements	2
Left turns	3
Pedestrian Crossings	4
Business or residence entrances and driveways	5
Placement of transit stops	6
Bicycle facilities	7



Most Common Issues Experienced at the Intersection

ALTERNATIVES PRESENTATION

ALTERNATIVE #1 – SPUI (SINGLE-POINT URBAN INTERCHANGE)

- A single traffic signal at the center of the interchange typically controls all left turns. Where through movement is required to maintain local access, separate signals at each approach would be required
- Allows concurrent left turns from two directions
- Can allow more vehicles to make a turn and clear the interchange in a single traffic signal cycle
- See SR 400 at Lenox Rd
- Jimmy Carter Blvd @ SR 141

TRAFFIC VOLUMESEXISTINGPROPOSED





COBB PKWY @ WINDY HILL

TRAFFIC VOLUMESEXISTINGPROPOSED





COBB PKWY @ TERRELL MILL RD

Parsons Corporation

QUEUE LENGTHS – COBB PKWY @ WINDY HILL RD

Alternative	Movement		5 th % Queue th (ft)	Project Queue	Existing Storage	
		AM	PM	AM	PM	(ft)
	EBL (dual)	364	360	377	368	600
	EBR	78	92	65	75	300
	WBL (dual)	86	110	90	109	410
SPUI	WBR	110	165	85	87	-
5501	NBL (dual)	98	663	112	449	500
	NBR	43	49	0	23	550
	SBL (dual)	139	193	146	201	500
	SBR (dual)	41	237	234	#951	600

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QUEUE LENGTHS – COBB PKWY @ TERRELL MILL RD

Alternative	Movement		5 th % Queue th (ft)	Project Queue	Existing	
		AM	PM	AM	PM	Storage (ft)
	WBL (dual)	231	326	90	109	-
CDUU	WBR	18	54	85	87	325
SPUI	NBR	68	66	0	23	-
	SBL	206	126	146	201	140

DELAY AND LEVEL OF SERVICE

	2021 AM (PM) Peak Hour											
Alternative		Existing 2021 Conditions					SPUI					
No.	Delay (sec/veh)	LOS	Approach	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Approach	Delay (sec/veh)	LOS		
		D (F)	EB	51.2 (46.6)	D (D)	59.9 (96.8)	E (F)	EB	63.6 (70.9)	E (E)		
1			WB	58.1 (84.9)	E (F)			WB	63.6 (110.8)	E (F)		
Ţ	48.3 (111.5)		NB	43.6 (275.4)	D (F)			NB	44.7 (72.5)	D (E)		
			SB	39.5 (40.0)	D (D)			SB	53.4 (126.5)	D (F)		

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ALTERNATIVE #2 – PARTIAL CFI (CONTINUOUS FLOW INTERSECTION)

- AKA Displaced Left Turn
- Allows simultaneous left turns and through movements of one or both approaches
- Service roads would be constructed adjacent to the left-turn lanes to maintain access to the adjacent commercial properties.
- See SR 400 @ SR 53
- 4 currently under construction in Georgia

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QUEUE LENGTHS

Alternative	Movement		6 Queue Length ft)	Project Queue	Existing Storage	
		AM	PM	AM	РМ	(ft)
	EBL (dual)	364	360	235	226	600
	EBR	78	92	0	0	300
	WBL (dual)	86	110	81	81	410
Partial CFI	WBR	110	165	0	0	-
Parual Cri	NBL (dual)	98	663	56	56	500
	NBR	43	49	41	41	550
	SBL (dual)	139	193	89	90	500
	SBR (dual)	41	237	34	34	600

DELAY AND LEVEL OF SERVICE

	2021 AM (PM) Peak Hour											
Alternative	Existing 2021 Conditions					Partial CFI						
No.	Delay (sec/veh)	LOS	Approach	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Approach	Delay (sec/veh)	LOS		
		D (F)	EB	51.2 (46.6)	D (D)		E (E)	EB	79.9 (79.1)	E (E)		
2	48.3 (111.5)		WB	58.1 (84.9)	E (F)	61 0 (61 4)		WB	116.5 (115.4)	F (F)		
2 40	40.3 (111.3)		NB	43.6 (275.4)	D (F)	61.9 (61.4)		NB	26 (25.8)	C (C)		
			SB	39.5 (40.0)	D (D)			SB	21.5 (21.4)	C (C)		

ALTERNATIVE #3 – AT-GRADE IMPROVEMENTS

Additional through lane in each direction on Windy Hill west of Cobb Parkway up to the Village Parkway intersection.

QUEUE LENGTHS

Alternative	Movement	-	G Queue Length ft)	Project Queue	Existing Storage	
		AM	PM	AM	PM	(ft)
	EBL (dual)	364	360	377	368	600
	EBR	78	92	58	81	300
	WBL (dual)	86	110	87	104	410
Addition of EBT & WBT	WBR	110	165	86	181	-
Lanes	NBL (dual)	98	663	101	449	500
	NBR	43	49	0	23	550
	SBL (dual)	139	193	146	201	500
	SBR (dual)	41	237	234	#951	600

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DELAY AND LEVEL OF SERVICE

	2021 AM (PM) Peak Hour											
Alternative		Existing 2021 Conditions					Addition of EBT & WBT Lanes					
No.	Delay (sec/veh)	LOS	Approach	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Approach	Delay (sec/veh)	LOS		
		D (F)	EB	51.2 (46.6)	D (D)		E (E)	EB	65.5 (71.0)	E (E)		
3	48.3 (111.5)		WB	58.1 (84.9)	E (F)	55 9 (79 9)		WB	58.7 (67.7)	E (E)		
5	40.3 (111.3)		NB	43.6 (275.4)	D (F)	55.8 (78.8)		NB	37.5 (55.7)	D (E)		
			SB	39.5 (40.0)	D (D)			SB	51.1 (110.1)	D (F)		

ALTERNATIVE #4 – FLYOVER RAMP

- Flyover ramp would allow continuous, uninterrupted movement from EB Windy Hill Road to EB Terrell Mill Road and the reciprocal movement from WB Terrell Mill Road to WB Windy Hill Road.
- Along Cobb Parkway, the flyover is aligned east of Cobb Parkway. The bents of the flyover would be positioned to avoid obstructing driveways to adjacent commercial properties.
- Existing Traffic Volumes for this particular movement are very high.
- Additionally, multiple comments received from the public indicate that this is a problematic movement for many drivers.

TRAFFIC VOLUMESEXISTINGPROPOSED





COBB PKWY @ WINDY HILL

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COBB PKWY @ TERRELL MILL RD

Parsons Corporation

QUEUE LENGTHS – COBB PKWY @ WINDY HILL RD

Alternative	Movement		^{jth} % Queue th (ft)	Project Queue	Existing Storage	
		AM	PM	AM	PM	(ft)
	EBL (dual)	364	360	294	256	600
	EBR	78	92	65	75	300
	WBL (dual)	86	110	90	109	410
Flyover Bridge	WBR	110	165	55	207	-
riyover bridge	NBL (dual)	98	663	112	449	500
	NBR	43	49	17	23	550
	SBL (dual)	139	193	146	201	500
	SBR (dual)	41	237	38	390	600

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QUEUE LENGTHS – COBB PKWY @ TERRELL MILL RD

Alternative	Movement		5 th % Queue th (ft)	Project Queue	Existing Storage	
		AM	РМ	AM	PM	(ft)
	WBL (dual)	231	326	90	109	-
	WBR	18	54	55	207	325
Flyover Bridge	NBR	68	66	17	23	-
	SBL	206	126	146	201	140

DELAY AND LEVEL OF SERVICE

	2021 AM (PM) Peak Hour											
Alternative	Existing 2021 Conditions					Flyover S-Shaped Bridge						
No.	Delay (sec/veh)	LOS	Approach	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Approach	Delay (sec/veh)	LOS		
			EB	51.2 (46.6)	D (D)		D (E)	EB	60.3 (67.5)	E (E)		
4	49.2 (111 E)		WB	58.1 (84.9)	E (F)	48.0 (66.1)		WB	32.6 (66.1)	C (E)		
4 48.3	48.3 (111.5)	D (F)	NB	43.6 (275.4)	D (F)	48.9 (66.1)		NB	42.7 (61.4)	D (E)		
			SB	39.5 (40.0)	D (D)			SB	54.1 (70.3)	D (E)		

PROPOSED EVALUATION METRICS

Traffic and Network Performance

Impact to CobbLinc Transit

Access to Nearby Land Parcels

Safety Improvement

Pedestrian Connectivity and Safety

ROW Requirements

Construction Cost Effectiveness

Ease of Construction (Constructability)

Impact on Existing Utilities and Services

Landscape and Visual Impacts

NEXT STEPS

Public Meeting – March 16, 2022 – 5PM
Windy Hill Community Center
Goal: Introduce some options to the public and get

feedback

NEXT STEPS

SSC Workshop #2 – April 13, 2022 – 10AM-12PM

Brawner Hall

Discuss refined alternatives, present preferred alternative

Q&A/OPEN DISCUSSION