



Study Goals and Approach



Public Meeting - May 2023

Project Understanding

Cobb County Department of Transportation (CCDOT) staff identified the need to better accommodate the traffic movement between Kennesaw Due West Road, Cobb Parkway/US 41/SR 3 and McCollum Parkway.

The County’s objectives of this study are:

- > To understand and analyze the existing traffic patterns;
- > To accommodate the Federal Aviation Administration (FAA) approved safety zone at Cobb International Airport
- > To promote the involvement of all stakeholders in the study area
- > To develop at least three minimum conceptual alternatives
- > To select the preferred alternative
- > To evaluate relative cost, feasibility, and constructability of alternative alignments and sections in logical phases or segments.

Study Goals

Understand and analyze the existing traffic patterns

Accommodate the Federal Aviation Administration (FAA) approved safety zone at Cobb International Airport

Promote the involvement of all stakeholders in the study area

Develop three conceptual alternatives

Select a preferred alternative

Evaluate relative cost, feasibility, and constructability of alternative alignments and sections in logical phases or segments.

Study Approach

TASKS	Address Goals
Task 1 – Project Management	<ul style="list-style-type: none"> • Meet monthly to review on-going tasks and plan for upcoming tasks with action items with the Project Management Team (PMT)
Task 2 – Stakeholder and Public Engagement	<ul style="list-style-type: none"> • Utilize Stakeholder and Public Engagement (SPE) Strategy to promote the involvement of stakeholders in the study area
Task 3 – Existing Conditions & Technical Analysis	<ul style="list-style-type: none"> • Analyze the existing traffic patterns to understand the key issues • Review the FAA approved Runway Protection Zone and conduct airspace analysis to evaluate RSA and ROFA
Task 4 – Alternative Analysis and Concept Plan Development	<ul style="list-style-type: none"> • Develop and evaluate three alternatives for traffic, bike, ped, transit, utility, ROW, and economic impacts • Select a Preferred Alternative based on cost, feasibility, and constructability of improvements
Task 5 – Final Project Deliverables	<ul style="list-style-type: none"> • Submit Final Report



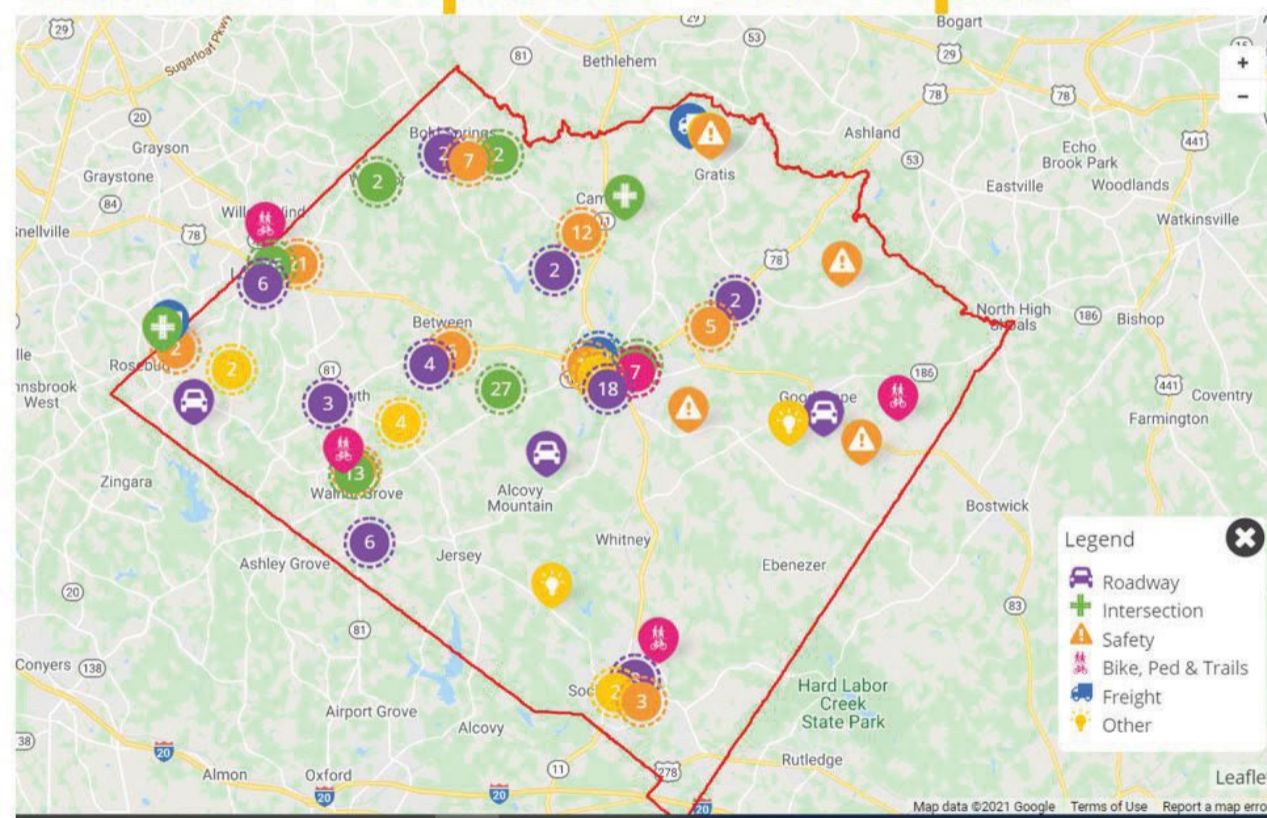
Stakeholder and Public Engagement



Public Meeting - May 2023

- Stakeholder Steering Committee
- Pop Up Events
- Web Content and Social Pinpoint
- Social Media
- Public Meetings
 - Develop Study Goals and Vision; Identify Needs and Opportunities
 - Seek Feedback on Draft Recommendations and Concepts

Social Pinpoint Example



Study Area



Cobb County Project B2541-TO #1
Cobb County Contract No. 002020

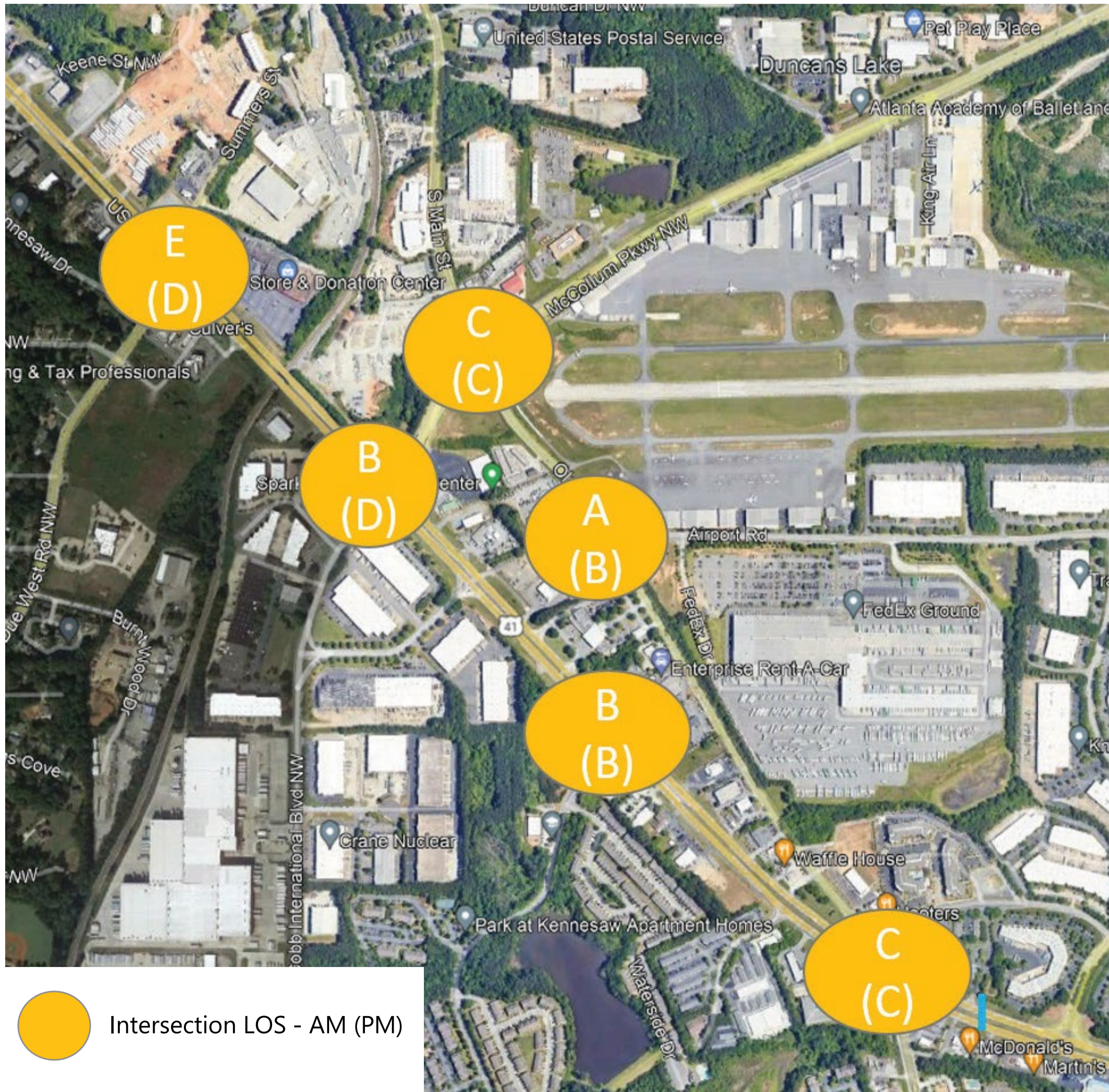




Level of Service - Existing Condition (2022)



Public Meeting - May 2023



Intersection LOS - AM (PM)

Intersection Level of Service

> Highly stable, free flow condition > Delay: <10 seconds/vehicle		LOS A
> Stable, free-flow condition with little congestion > Delay: 10 to 20 seconds/vehicle		LOS B
> Free-flow condition with moderate congestion > Delay: 20 to 35 seconds/vehicle		LOS C
> Approaching unstable condition with increasing congestion > Delay: 35 to 55 seconds/vehicle		LOS D
> Unstable, congested condition > Delay: 55 to 80 seconds/vehicle		LOS E
> Stop and go > Delay: >80 seconds/vehicle		LOS F

Roadway Level of Service

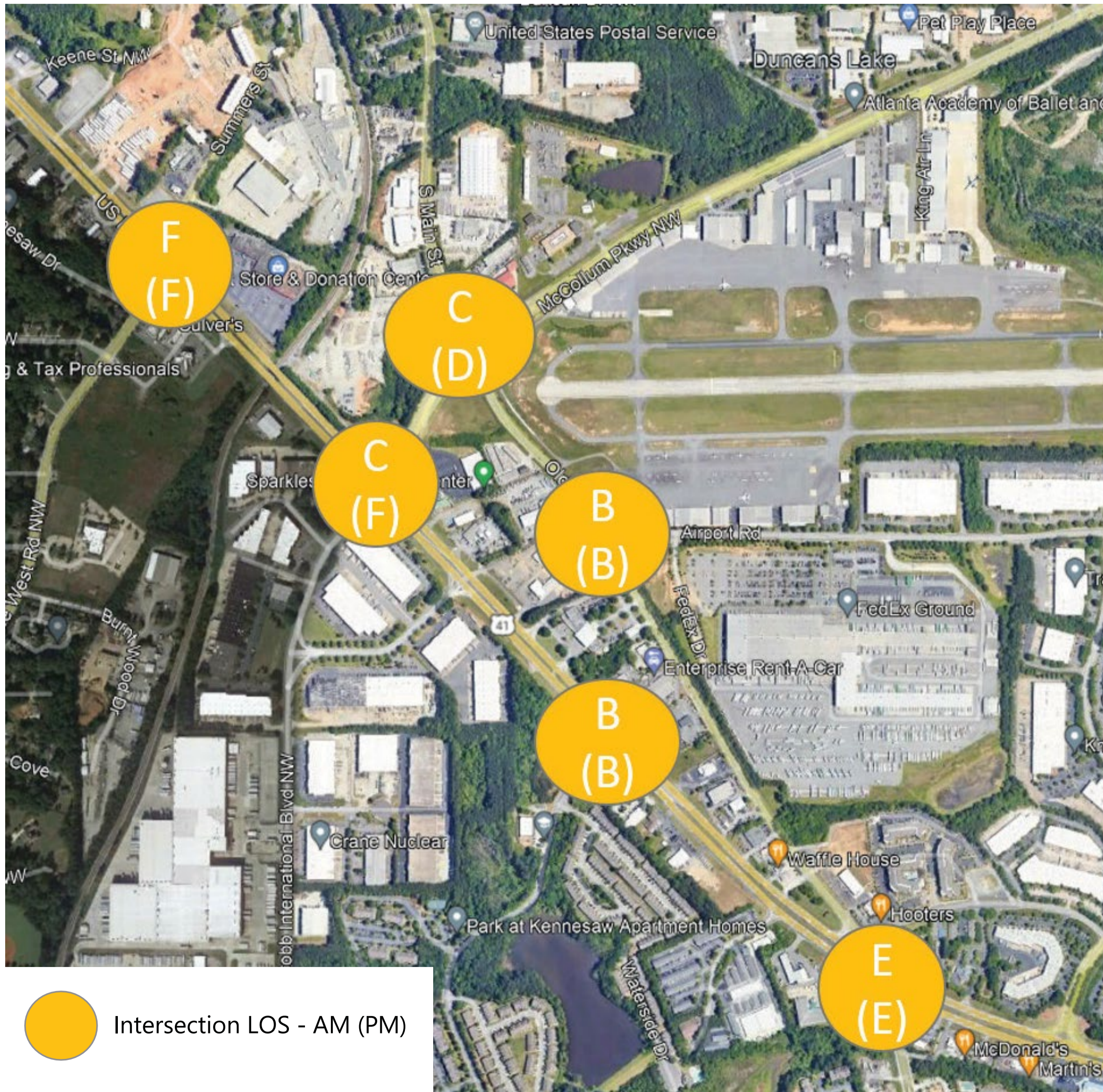
LOS A		> Free flowing > Uninterrupted vehicle
LOS B		> Stable flow > Other vehicles are more noticeable
LOS C		> Stable flow > Vehicle operations affected by other vehicles
LOS D		> Stable flow > Vehicle operations affected by other vehicles
LOS E		> High density traffic flow, nearing capacity > Operating conditions are poor
LOS F		> Forced or breakdown flow > Amount of traffic exceeds capacity



Level of Service - No Build Condition (2052)



Public Meeting - May 2023



Intersection LOS - AM (PM)

Intersection Level of Service

> Highly stable, free flow condition > Delay: <10 seconds/vehicle		LOS A
> Stable, free-flow condition with little congestion > Delay: 10 to 20 seconds/vehicle		LOS B
> Free-flow condition with moderate congestion > Delay: 20 to 35 seconds/vehicle		LOS C
> Approaching unstable condition with increasing congestion > Delay: 35 to 55 seconds/vehicle		LOS D
> Unstable, congested condition > Delay: 55 to 80 seconds/vehicle		LOS E
> Stop and go > Delay: >80 seconds/vehicle		LOS F

Roadway Level of Service

LOS A		> Free flowing > Uninterrupted vehicle
LOS B		> Stable flow > Other vehicles are more noticeable
LOS C		> Stable flow > Vehicle operations affected by other vehicles
LOS D		> Stable flow > Vehicle operations affected by other vehicles
LOS E		> High density traffic flow, nearing capacity > Operating conditions are poor
LOS F		> Forced or breakdown flow > Amount of traffic exceeds capacity



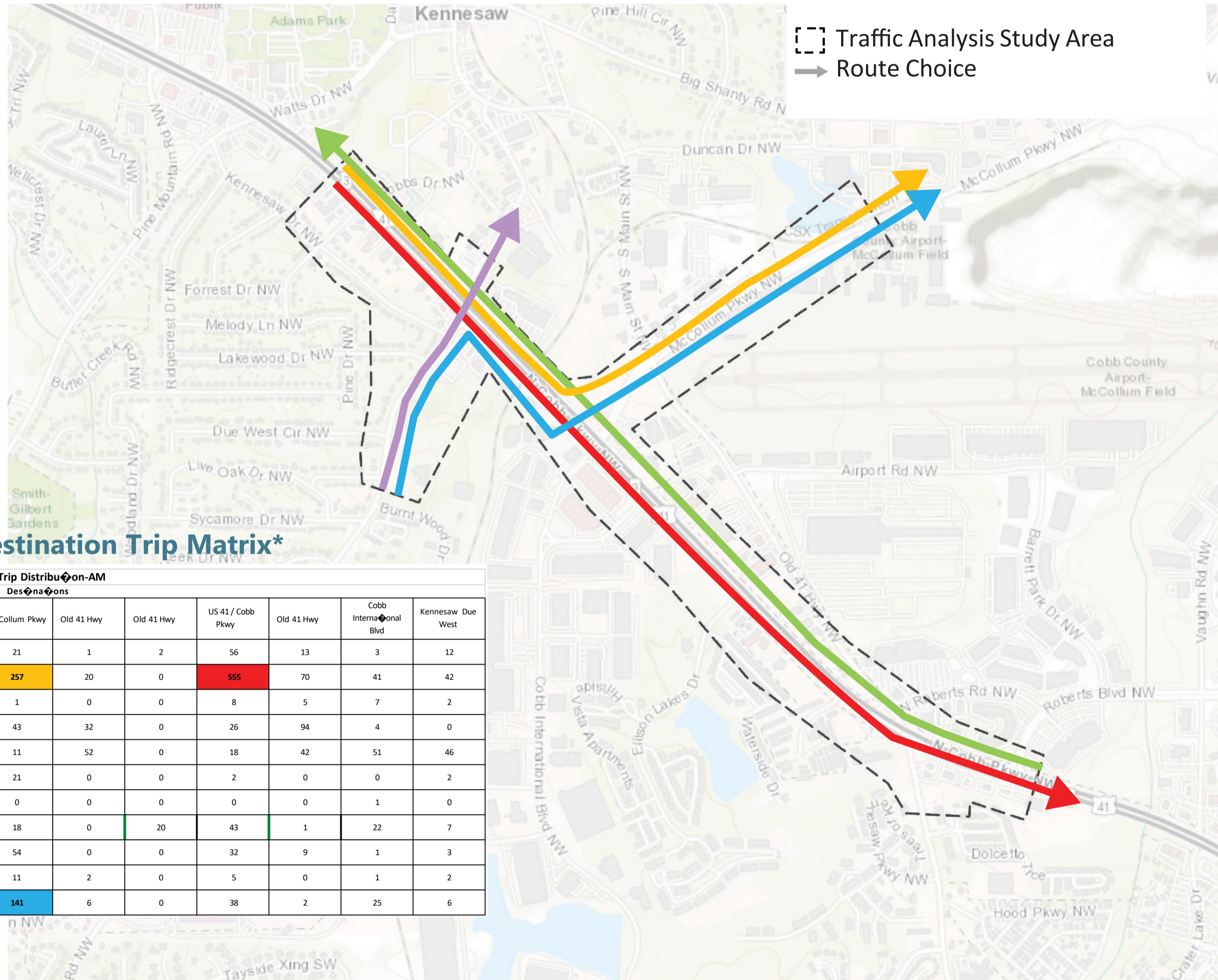
RITIS Trip Distribution - Top 5 Routes (AM Existing Condition 2022)



Public Meeting - May 2023

Top 5 Routes

- 1) US 41/Cobb Pkwy (southbound)
- 2) US 41/Cobb Pkwy to McCollum Pkwy
- 3) US 41/Cobb Pkwy (northbound)
- 4) Kennesaw Due West to McCollum Pkwy
- 5) Kennesaw Due West to Summers St



RITIS Origin Destination Trip Matrix*

		RITIS Trip Distribution-AM											
		Destinations											
	Origins	Road Name	Internal	US 41 / Cobb Pkwy	Summers St	S Main St	McCollum Pkwy	Old 41 Hwy	Old 41 Hwy	US 41 / Cobb Pkwy	Old 41 Hwy	Cobb International Blvd	Kennesaw Due West
	Internal		37	28	4	4	21	1	2	56	13	3	12
	US 41 / Cobb Pkwy		53	15	9	1	257	20	0	555	70	41	42
	Summers St		4	2	1	0	1	0	0	8	5	7	2
	S Main St		10	3	0	4	43	32	0	26	94	4	0
	McCollum Pkwy		46	92	1	33	11	52	0	18	42	51	46
	Old 41 Hwy		2	0	0	1	21	0	0	2	0	0	2
	Old 41 Hwy		3	0	0	0	0	0	0	0	0	1	0
	US 41 / Cobb Pkwy		25	164	5	15	18	0	20	43	1	22	7
	Old 41 Hwy		19	24	0	1	54	0	0	32	9	1	3
	Cobb International Blvd		2	9	1	4	11	2	0	5	0	1	2
	Kennesaw Due West		15	36	119	0	141	6	0	38	2	25	6

*Highlighted cell represents a top five route



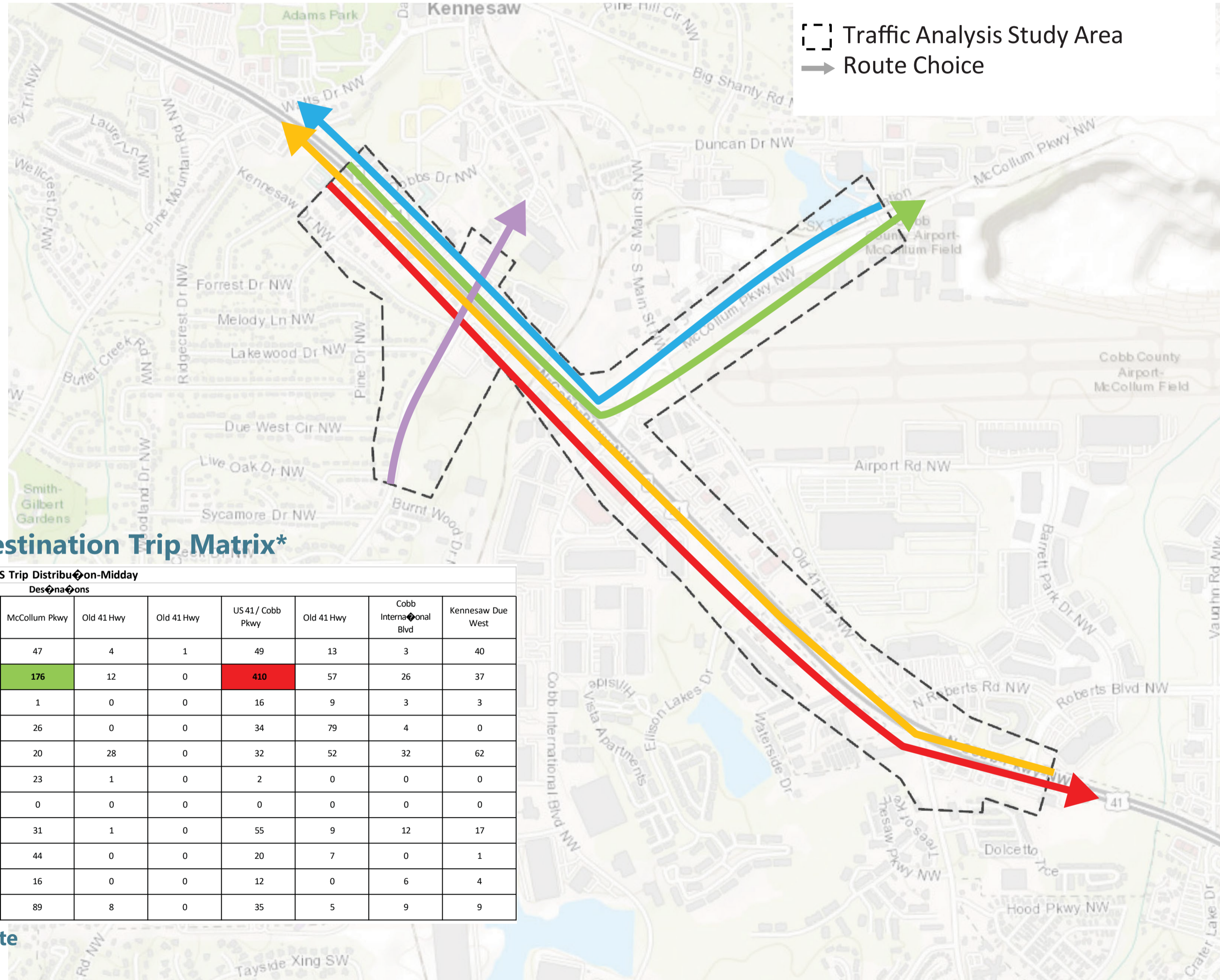
RITIS Trip Distribution - Top 5 Routes (Midday Existing Condition 2022)



Public Meeting - May 2023

Top 5 Routes

- 1) US 41/Cobb Pkwy (southbound)
- 2) US 41/Cobb Pkwy (northbound)
- 3) US 41/Cobb Pkwy to McCollum Pkwy
- 4) McCollum Pkwy to US 41/Cobb Pkwy
- 5) Kennesaw Due West to Summers St



RITIS Origin Destination Trip Matrix*

		RITIS Trip Distribution-Midday										
		Destinations										
Origins	Road Name	Internal	US 41/ Cobb Pkwy	Summers St	S Main St	McCollum Pkwy	Old 41 Hwy	Old 41 Hwy	US 41/ Cobb Pkwy	Old 41 Hwy	Cobb International Blvd	Kennesaw Due West
		Internal	37	28	4	16	47	4	1	49	13	3
	US 41/ Cobb Pkwy	41	7	12	3	176	12	0	410	57	26	37
	Summers St	13	3	1	1	1	0	0	16	9	3	3
	S Main St	5	3	1	6	26	0	0	34	79	4	0
	McCollum Pkwy	49	156	1	53	20	28	0	32	52	32	62
	Old 41 Hwy	5	4	0	44	23	1	0	2	0	0	0
	Old 41 Hwy	3	0	0	0	0	0	0	0	0	0	0
	US 41/ Cobb Pkwy	33	361	10	52	31	1	0	55	9	12	17
	Old 41 Hwy	15	38	4	3	44	0	0	20	7	0	1
	Cobb International Blvd	3	23	1	6	16	0	0	12	0	6	4
	Kennesaw Due West	19	41	112	0	89	8	0	35	5	9	9

*Highlighted cell represents a top five route



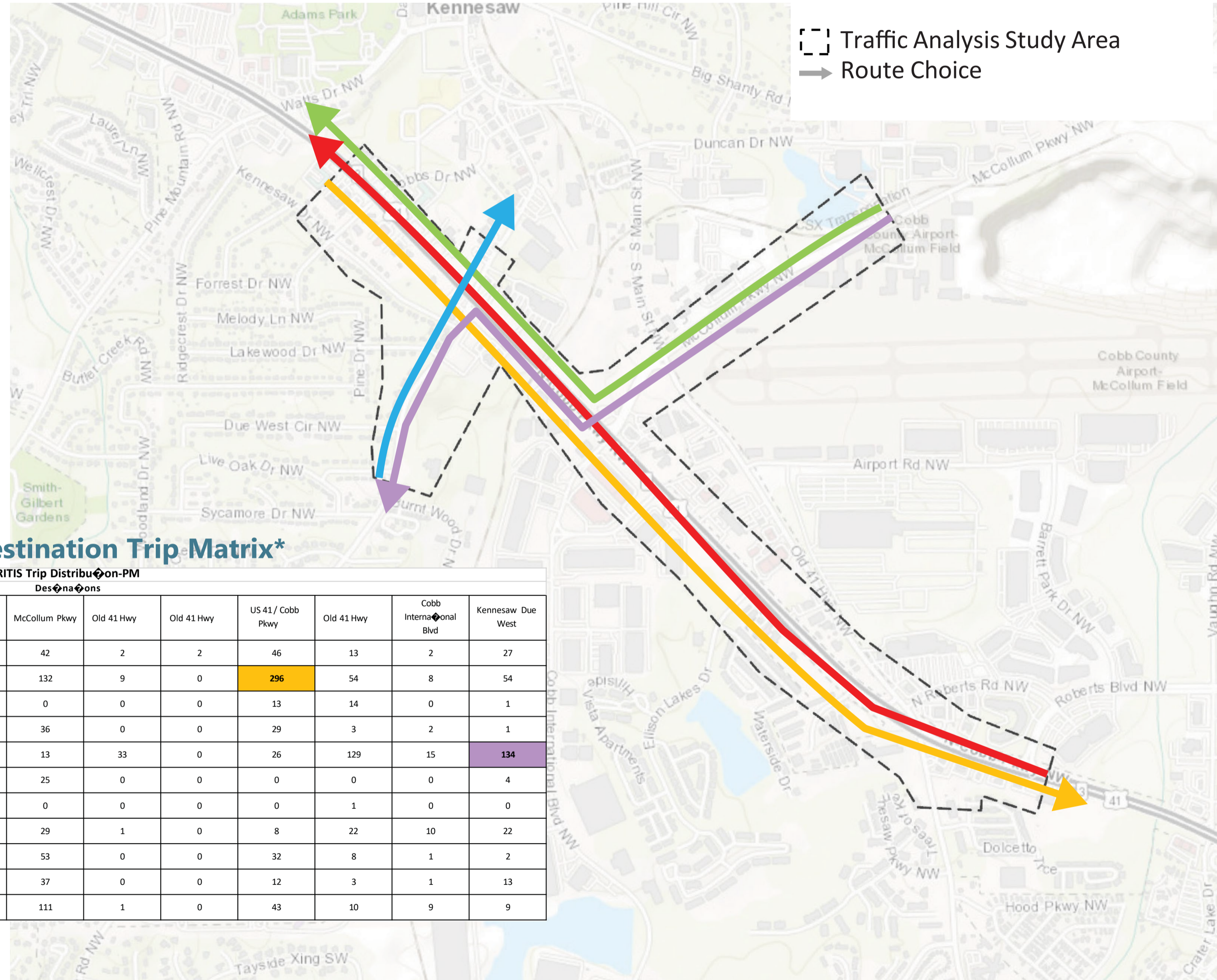
RITIS Trip Distribution - Top 5 Routes (PM Existing Condition 2022)



Public Meeting - May 2023

Top 5 Routes

- 1) US 41/Cobb Pkwy (northbound)
- 2) US 41/Cobb Pkwy (southbound)
- 3) McCollum Pkwy to US 41/Cobb Pkwy
- 4) Kennesaw Due West to Summers St
- 5) McCollum Pkwy to Kennesaw Due West



RITIS Origin Destination Trip Matrix*

		RITIS Trip Distribution-PM										
		Destinations										
Origins	Road Name	Internal	US 41/ Cobb Pkwy	Summers St	S Main St	McCollum Pkwy	Old 41 Hwy	Old 41 Hwy	US 41/ Cobb Pkwy	Old 41 Hwy	Cobb International Blvd	Kennesaw Due West
		Internal	60	84	6	20	42	2	2	46	13	2
	US 41/ Cobb Pkwy	53	66	1	2	132	9	0	296	54	8	54
	Summers St	15	9	1	1	0	0	0	13	14	0	1
	S Main St	10	0	2	4	36	0	0	29	3	2	1
	McCollum Pkwy	45	254	3	74	13	33	0	26	129	15	134
	Old 41 Hwy	3	10	0	50	25	0	0	0	0	0	4
	Old 41 Hwy	2	0	0	1	0	0	0	0	1	0	0
	US 41/ Cobb Pkwy	41	449	8	98	29	1	0	8	22	10	22
	Old 41 Hwy	12	55	0	85	53	0	0	32	8	1	2
	Cobb International Blvd	5	38	1	9	37	0	0	12	3	1	13
	Kennesaw Due West	31	71	159	1	111	1	0	43	10	9	9

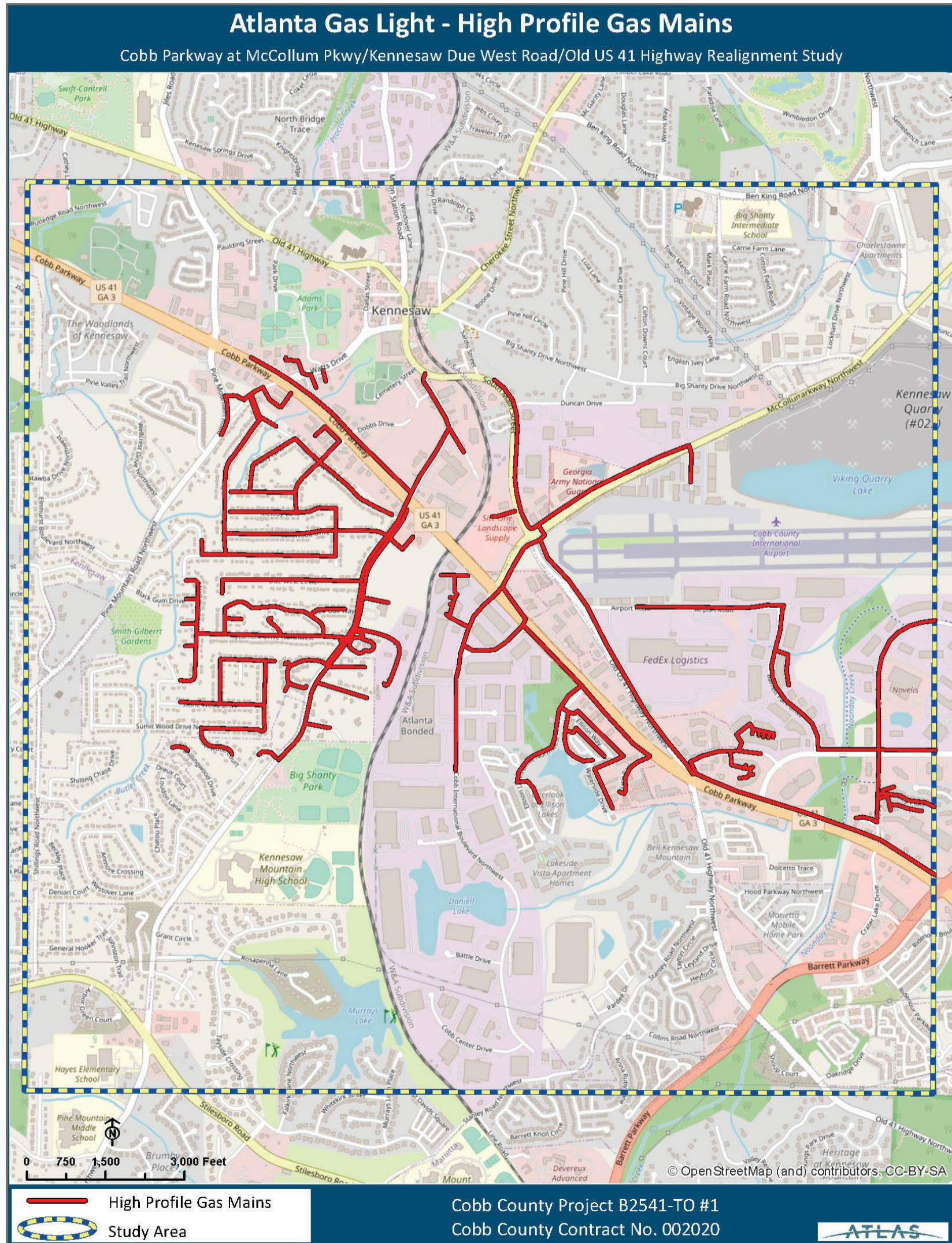
*Highlighted cell represents a top five route



Utilities - Existing Condition (2022)



Public Meeting - May 2023

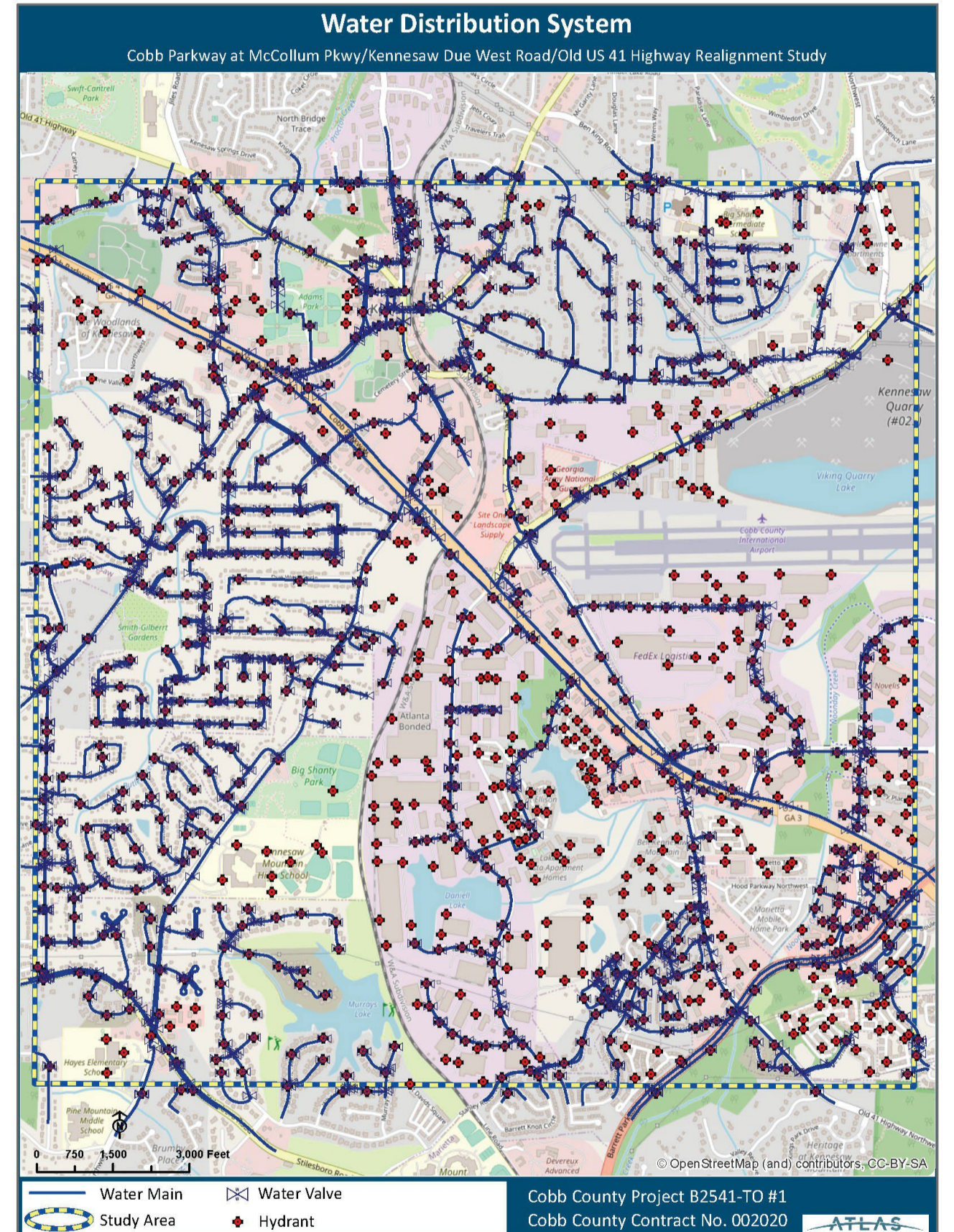
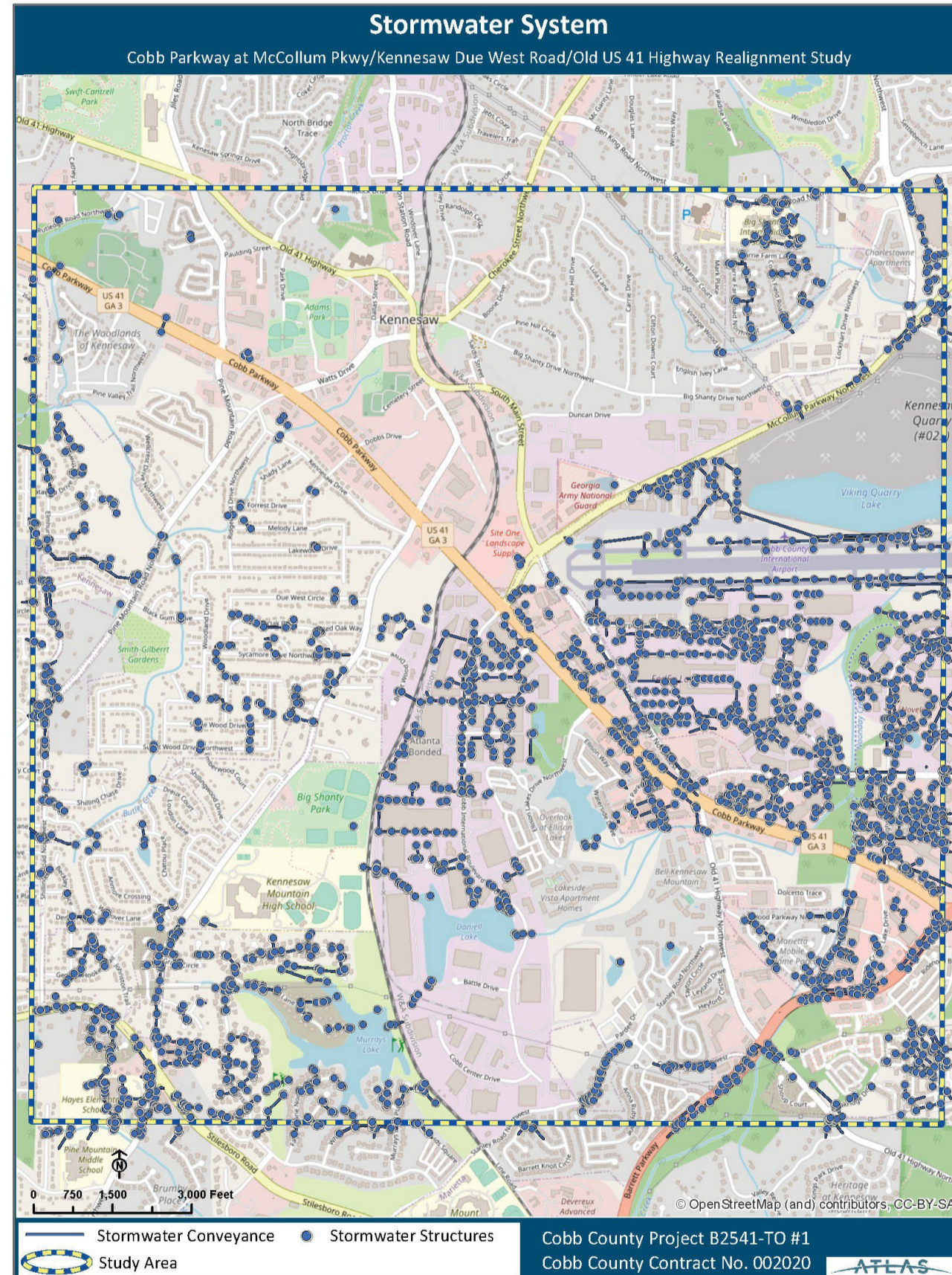




Utilities - Existing Condition (2022)



Public Meeting - May 2023

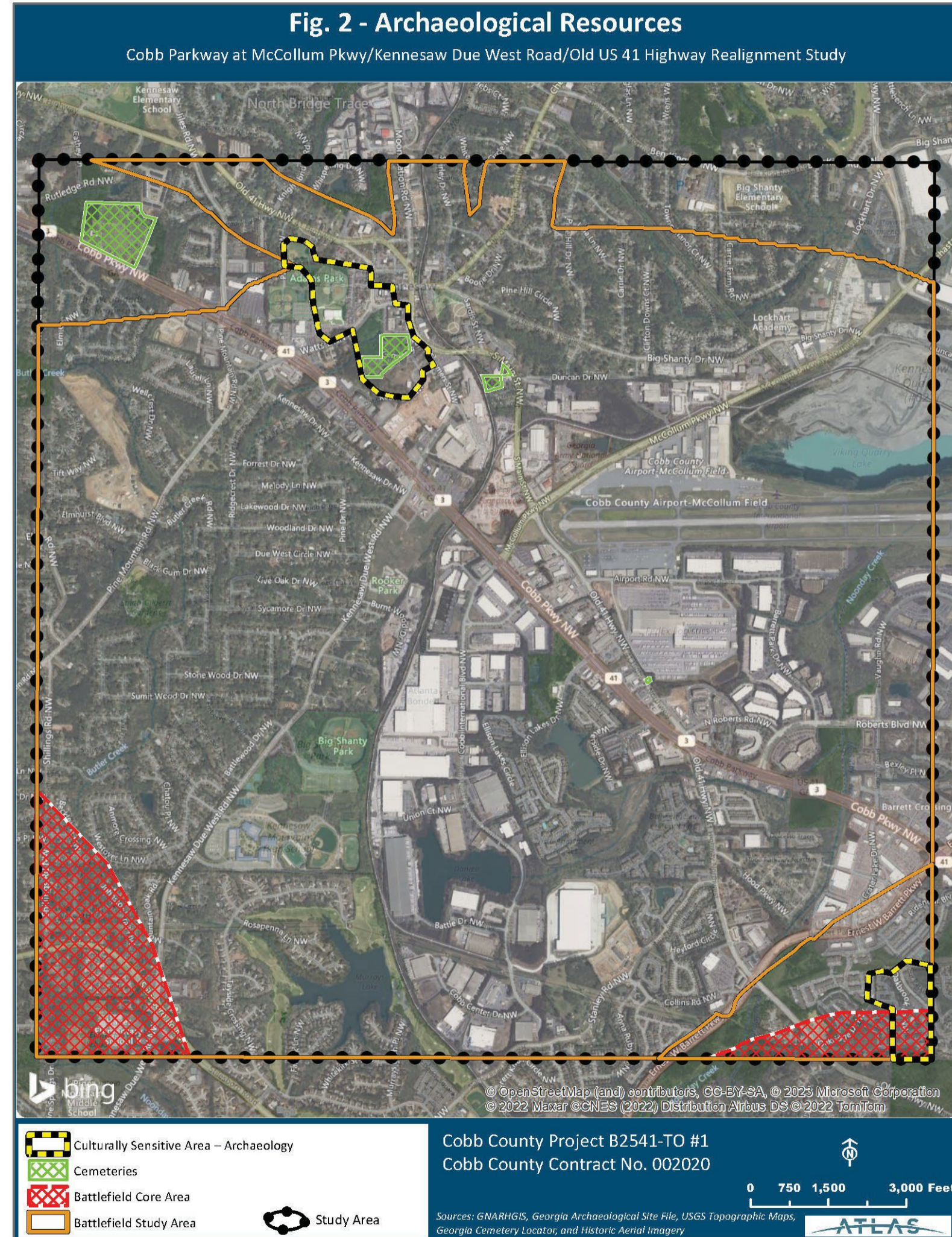




Environmental - Existing Condition (2022)



Public Meeting - May 2023





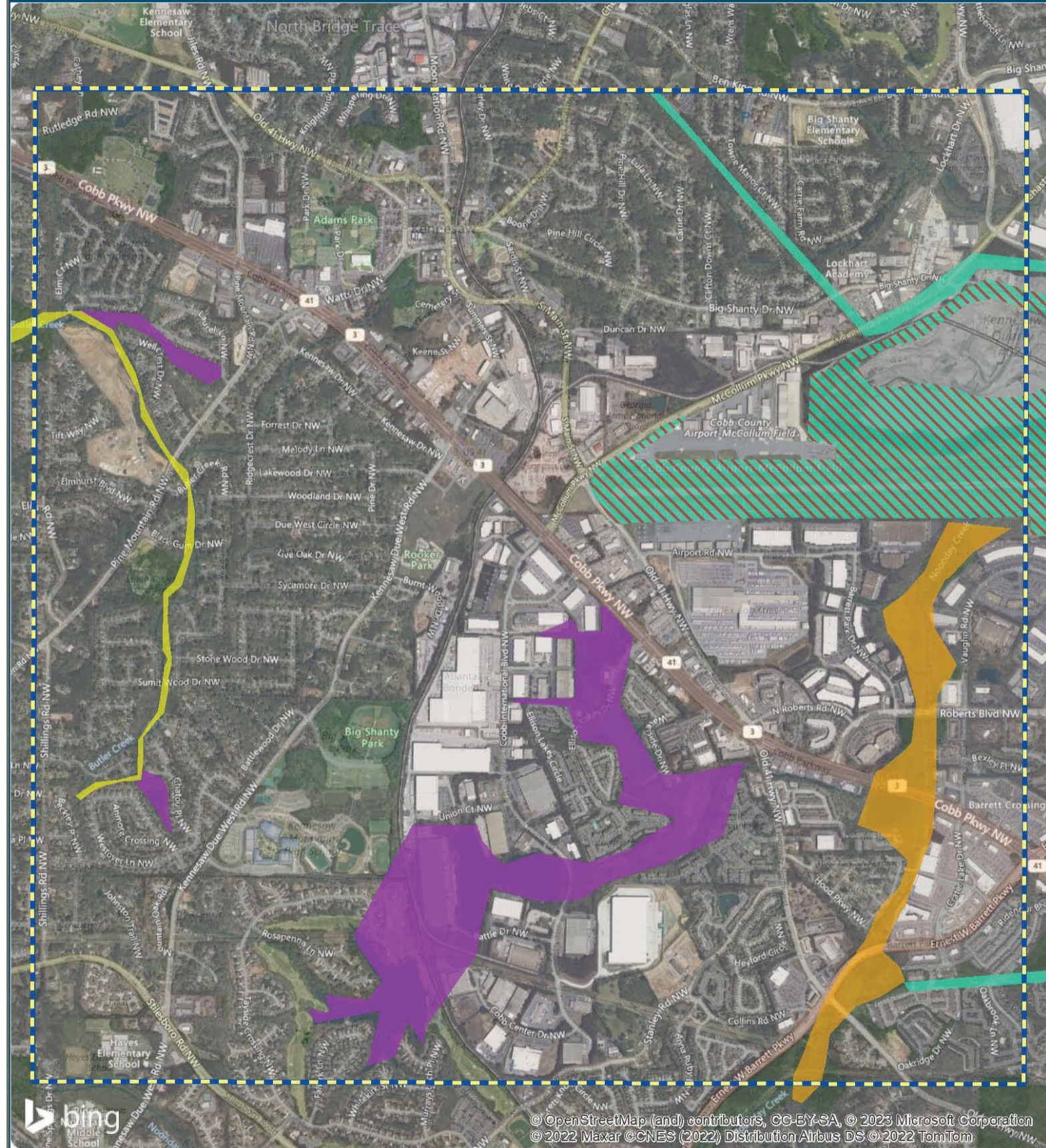
Environmental - Existing Condition (2022)



Public Meeting - May 2023

Fig. 3 - Potentially Suitable Habitat for Protected Species

Cobb Parkway at McCollum Pkwy/Kennesaw Due West Road/Old US 41 Highway Realignment Study



- Tri-colored Bat and Other State Protected Bat Habitat
- Cherokee Darter Habitat
- Georgia Aster Habitat
- Michaux's Sumac Habitat
- White Fringeless Orchid Habitat

Cobb County Project B2541-TO #1
Cobb County Contract No. 002020

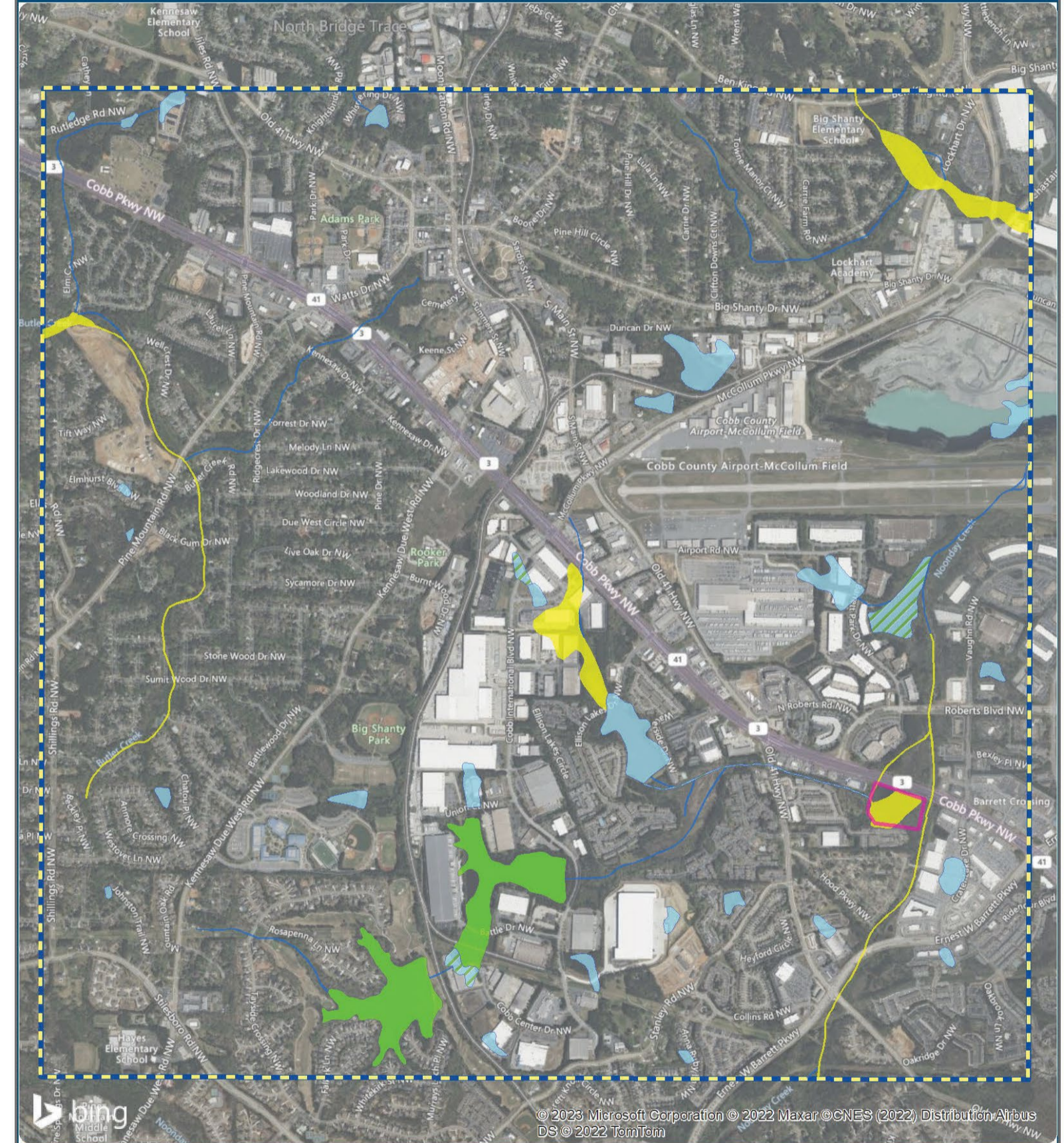
0 750 1,500 3,000 Feet

ATLAS

Sources: USFWS, IPaC, and GNAHRGIS

Fig. 4 - Waters of the U.S.

Cobb Parkway at McCollum Pkwy/Kennesaw Due West Road/Old US 41 Highway Realignment Study



- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Riverine
- Noonday Creek Tributary Mitigation Site

Cobb County Project B2541-TO #1
Cobb County Contract No. 002020

0 750 1,500 3,000 Feet

ATLAS

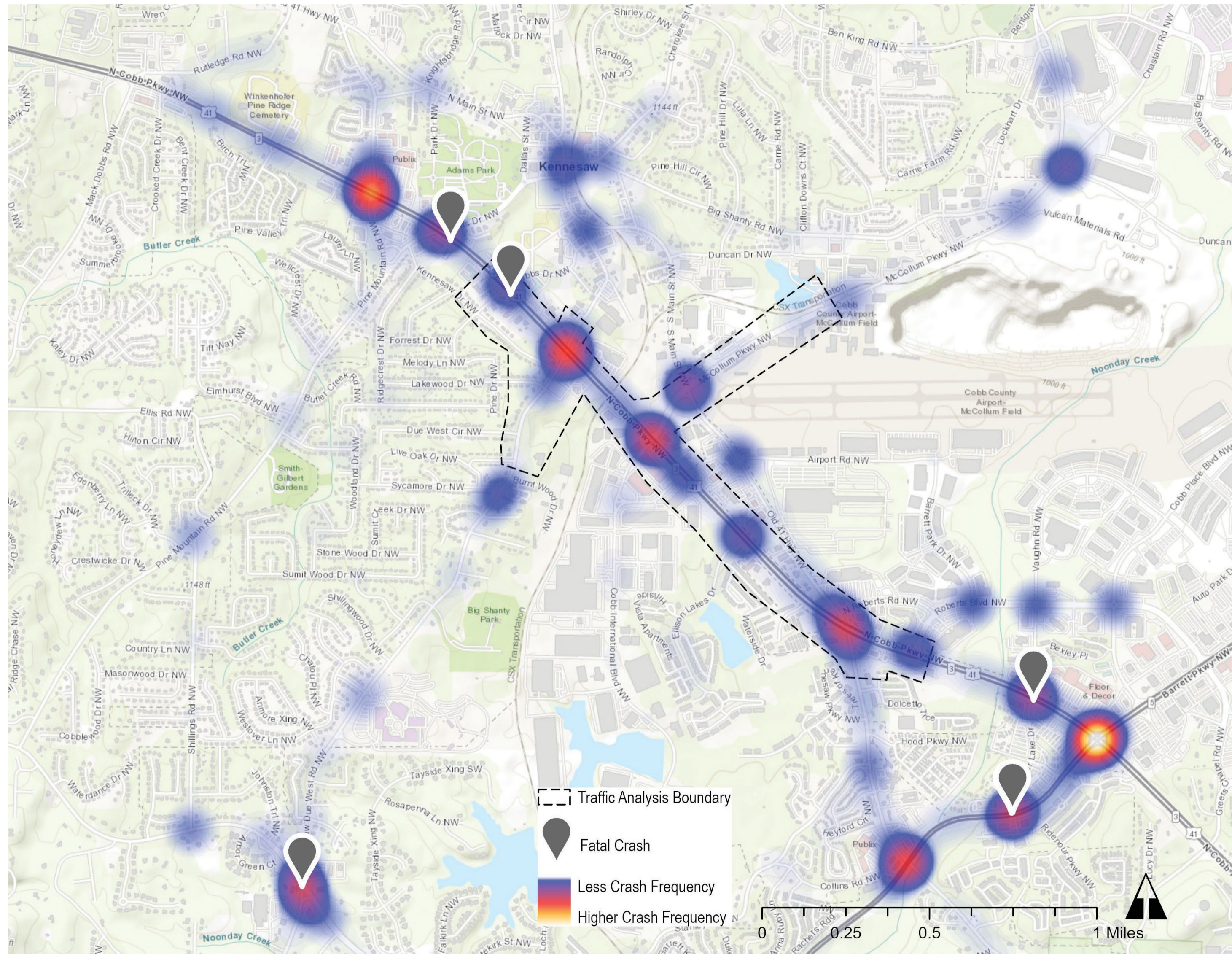
Sources: National Wetlands Inventory & GA EPD Trout Waters Map



Historical Crash Summary - 2017 to 2021



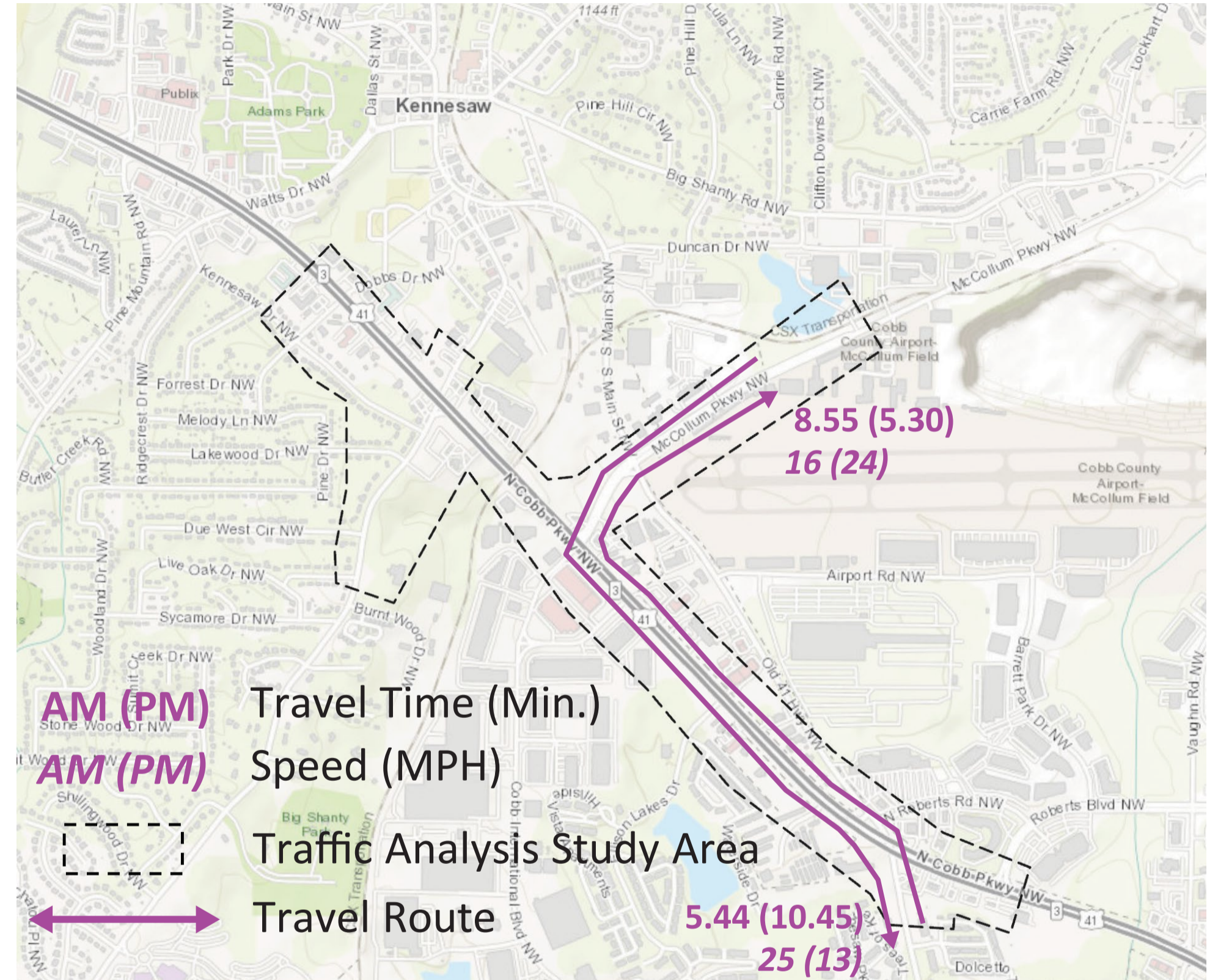
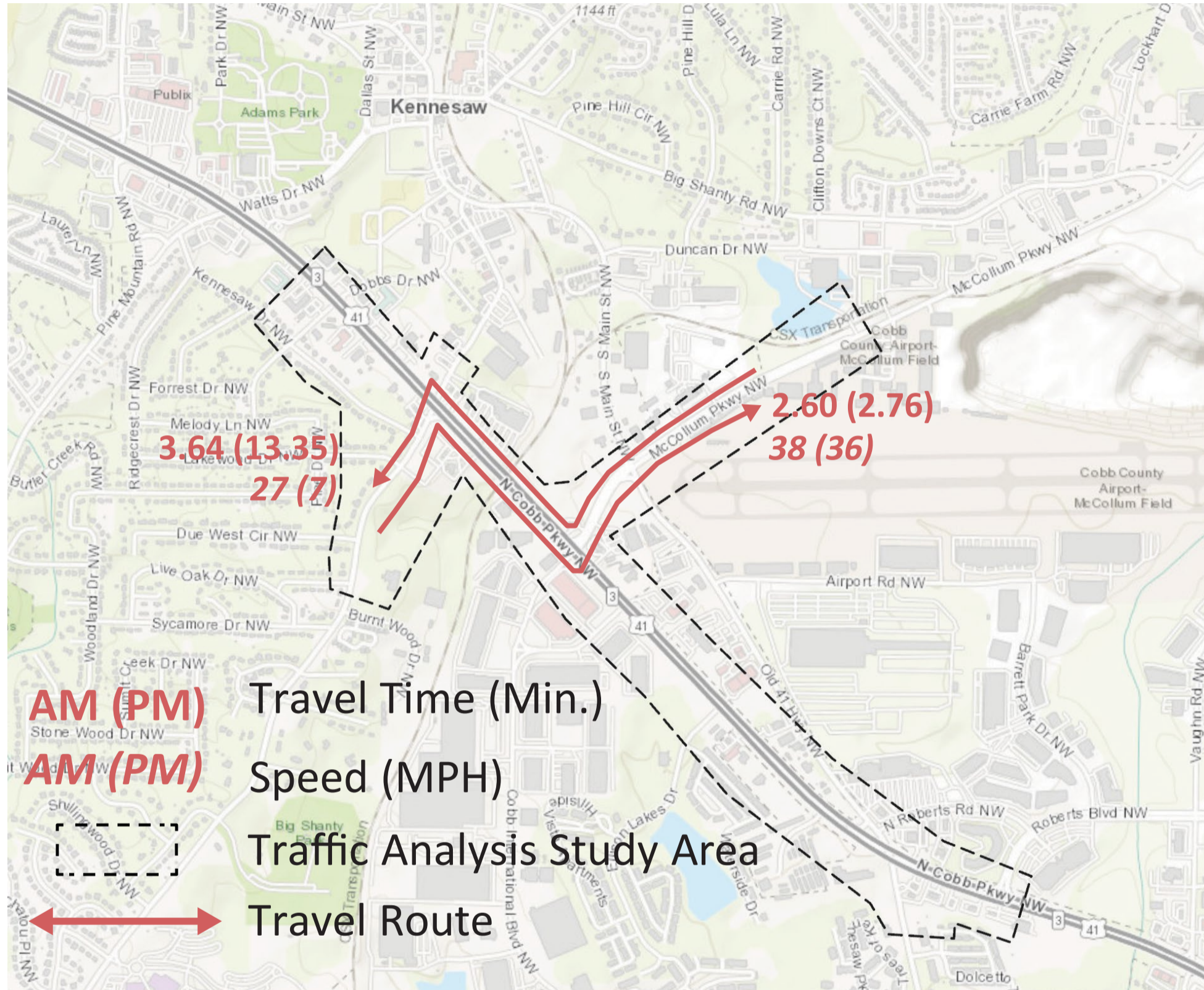
Public Meeting - May 2023





Travel Time Analysis Routes

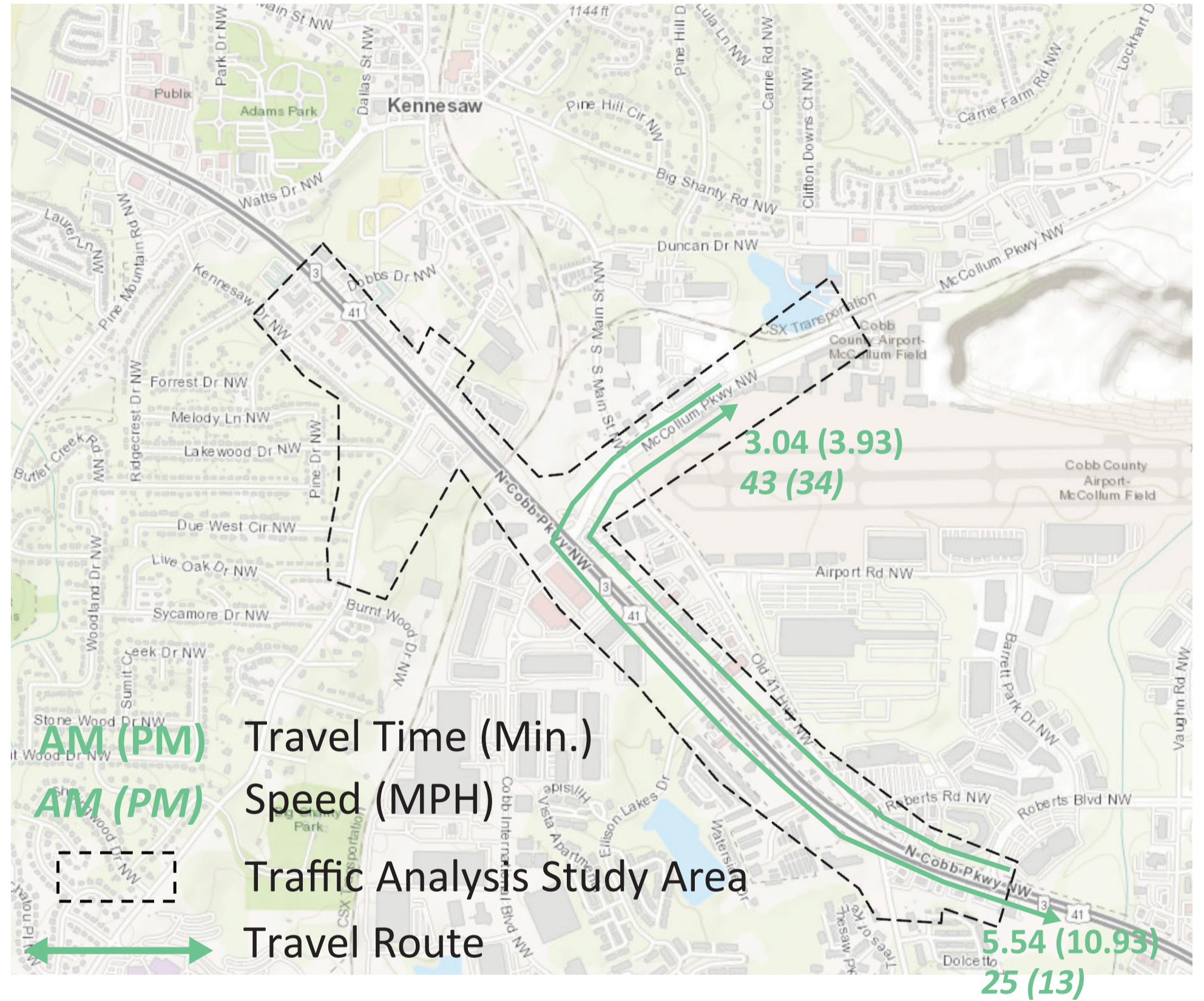
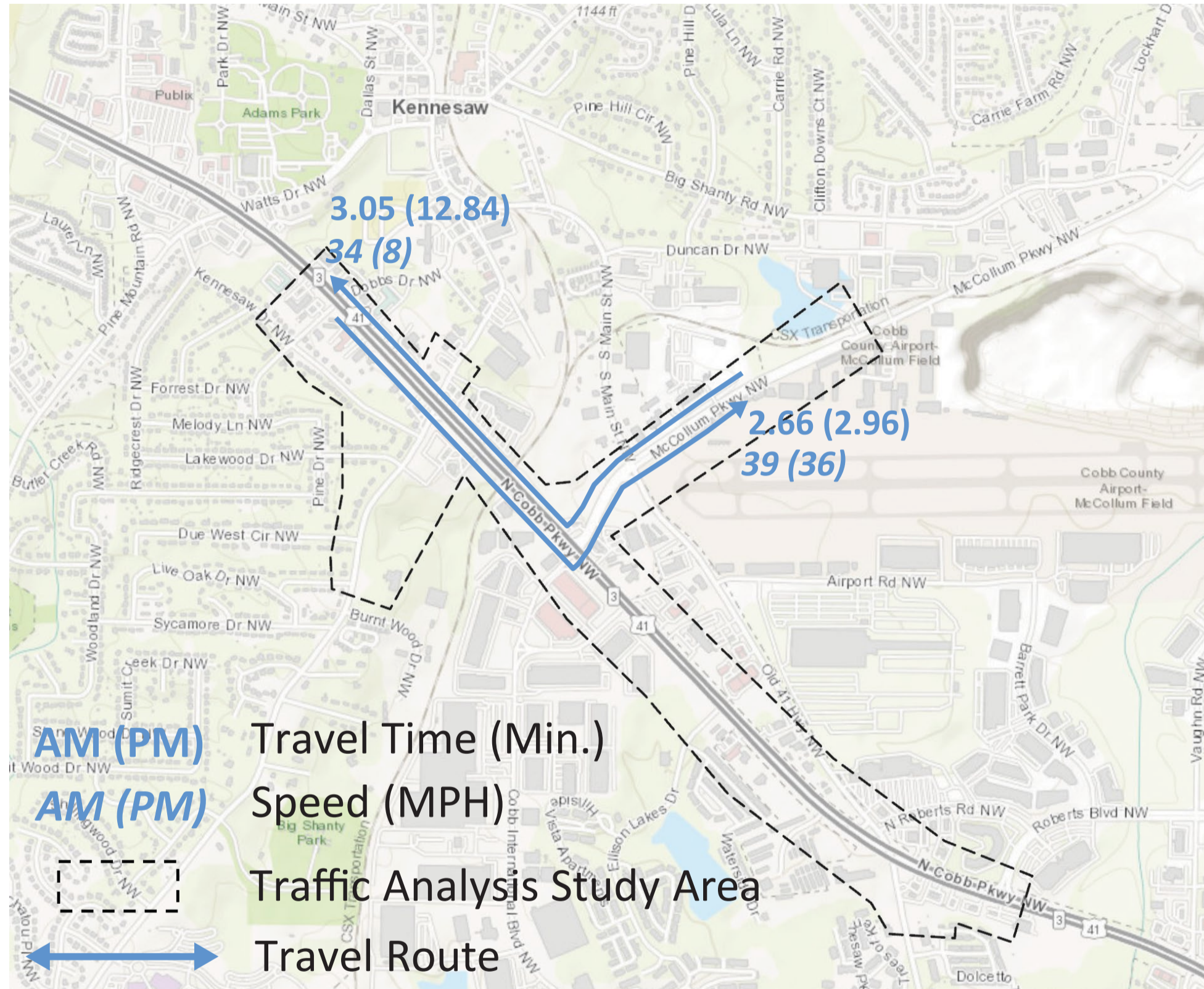
Public Meeting - May 2023





Travel Time Analysis Routes

Public Meeting - May 2023



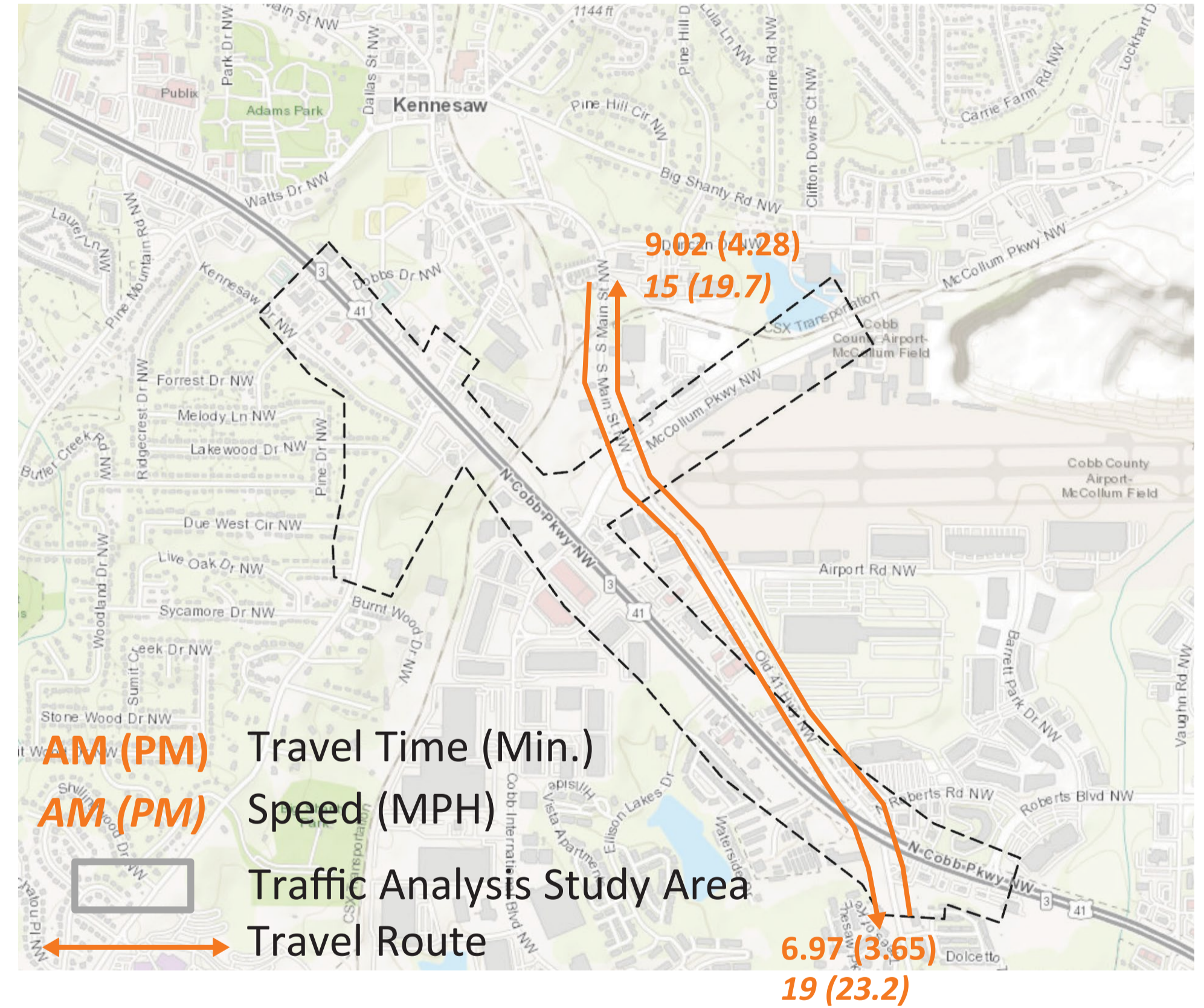
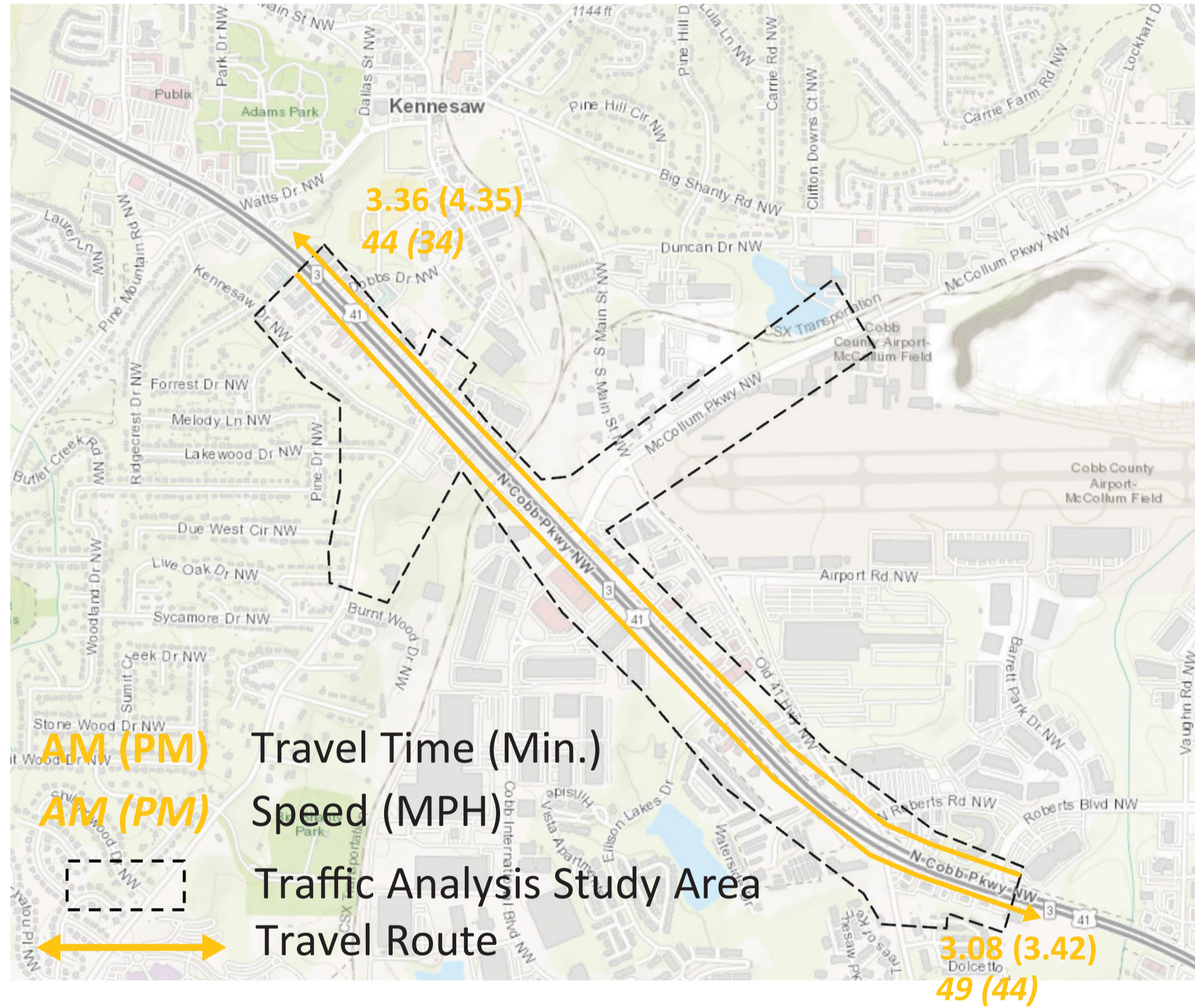
NTS ▲



Travel Time Analysis Routes



Public Meeting - May 2023



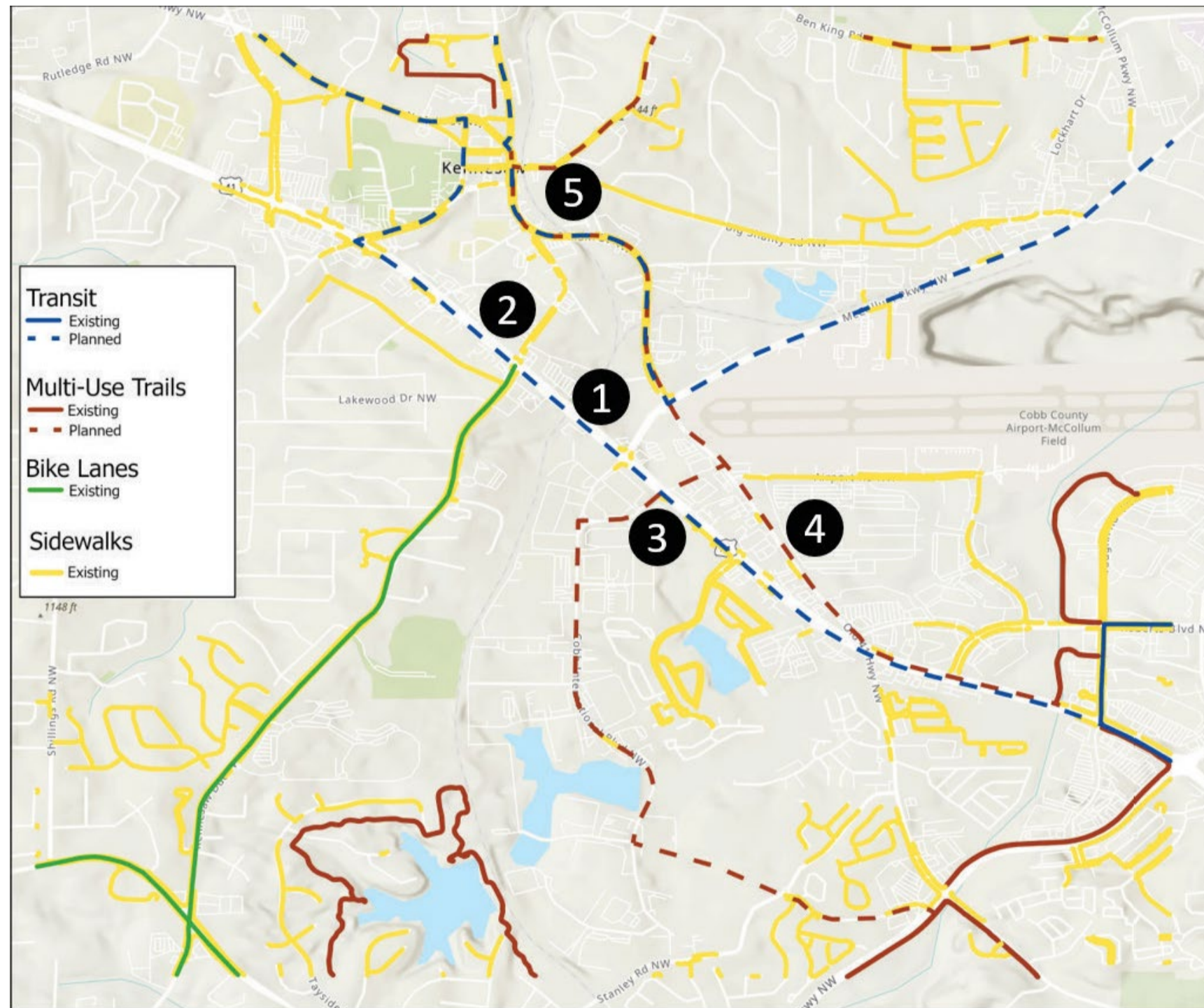
NTS ▲



Active Transportation - Potential Conflicts and Countermeasures

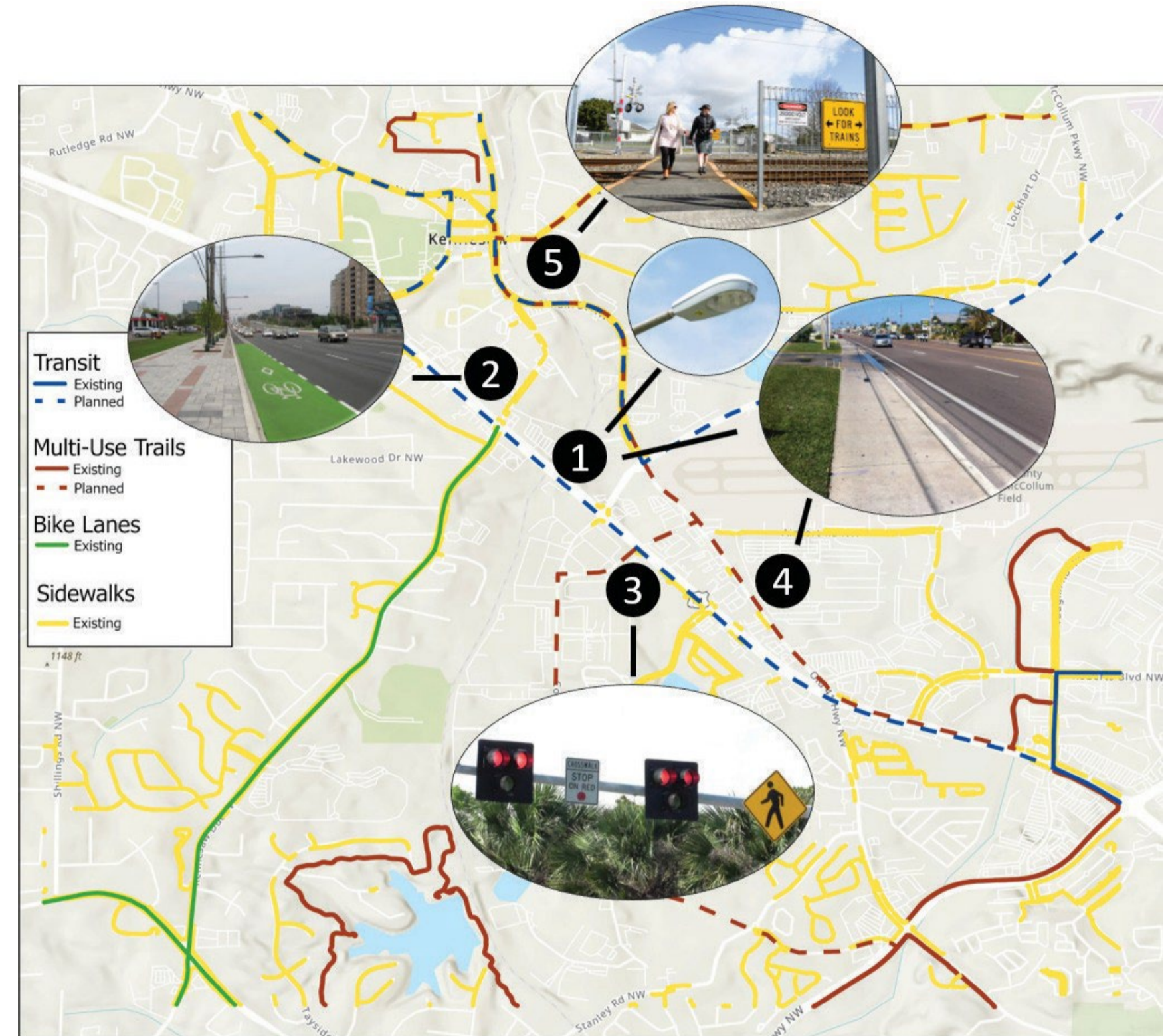


Public Meeting - May 2023



Potential Conflict points:

- 1) Cobb Pkwy - Lack of sidewalks, poor lighting, future transit
- 2) Kennesaw Due West Rd - No bike lane connectivity
- 3) Cobb International Dr - Future trail crossing
- 4) Old 41 Hwy - Lack of sidewalks
- 5) Cherokee St Railroad Crossing - No pedestrian markings/signage



Potential Countermeasures

- 1) Cobb Pkwy - Additional sidewalks, lighting
- 2) Kennesaw Due West Rd - Bike lanes connected to future trails
- 3) Cobb International Dr - Pedestrian hybrid beacon
- 4) Old 41 Hwy - Additional sidewalks
- 5) Cherokee St Railroad Crossing - Pedestrian markings/signage



Aviation Review - Existing Condition (2022)



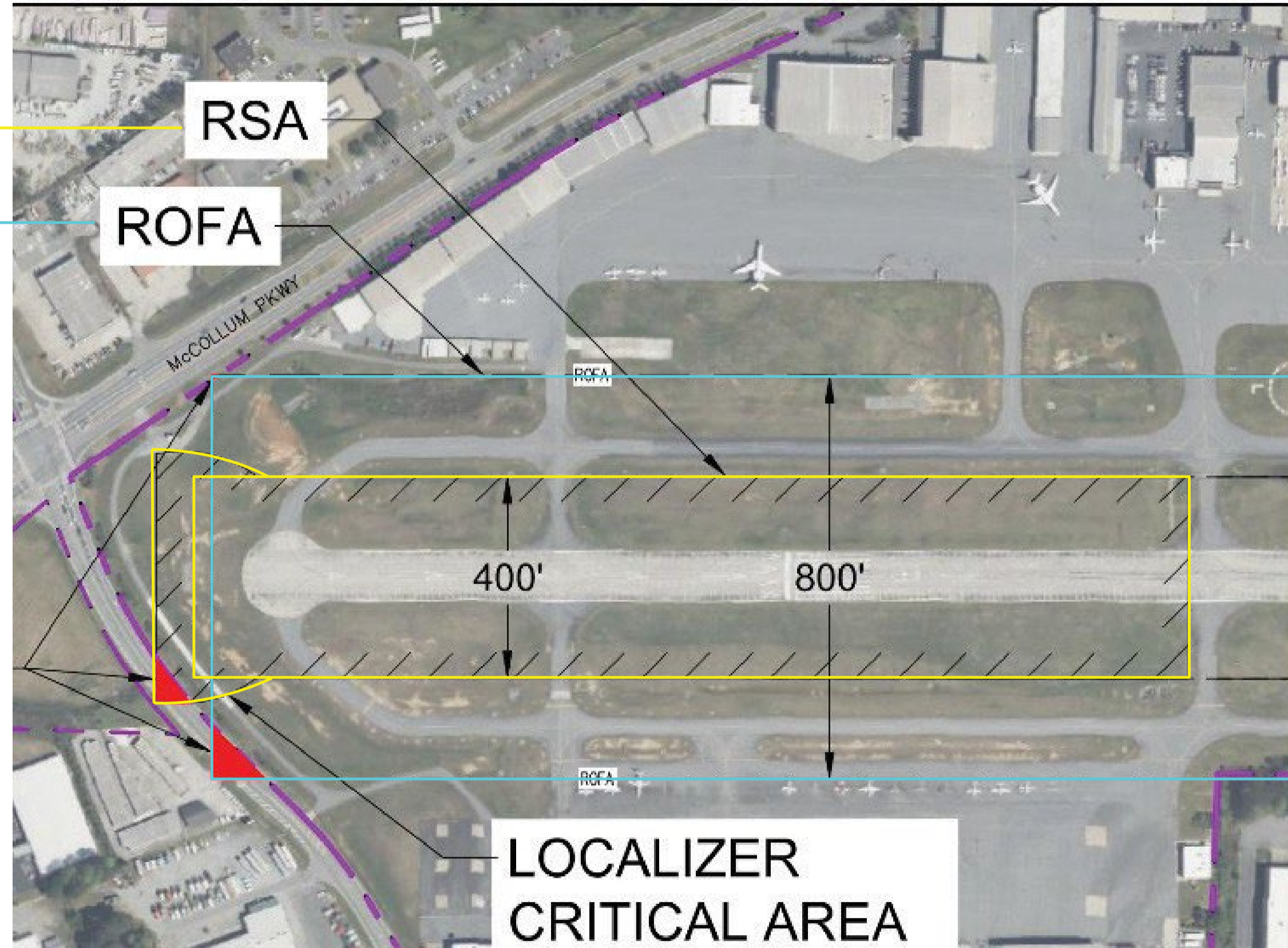
Public Meeting - May 2023

Runway Safety Area (RSA) with Localizer Critical Area

- RSA Dimensions:
 - 400 ft wide
 - 1,000 ft beyond departure end
 - 600 ft prior to threshold
- Localizer Critical Area:
 - 600 to 2,000 ft from departure end of runway
 - **2,910 sq ft** outside airport property

Runway Object Free Area (ROFA)

- ROFA Dimensions:
 - 800 ft wide
 - 1,000 ft beyond departure end
 - 600 ft prior to threshold
 - **5,785 sq ft** outside airport property line





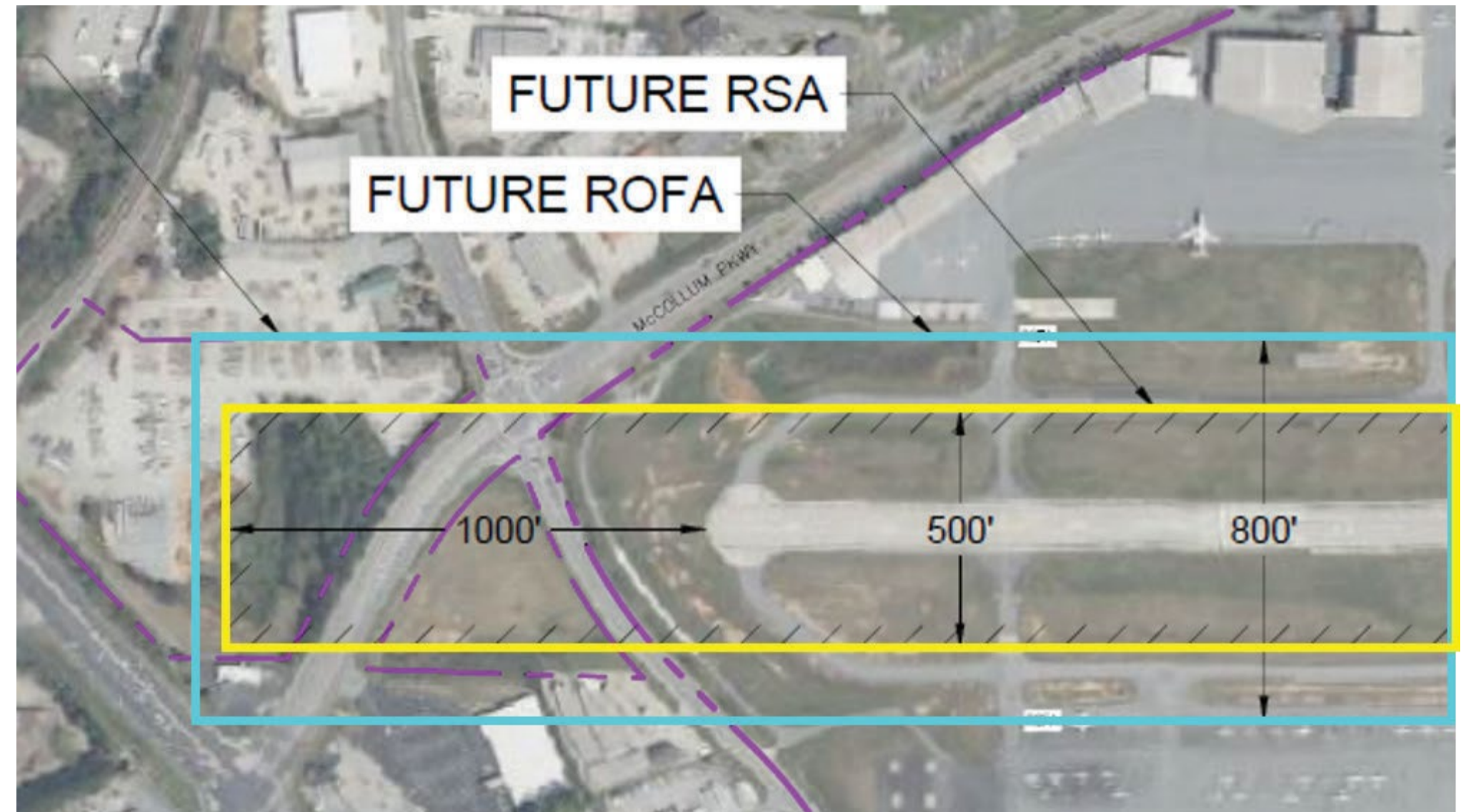
Public Meeting - May 2023

Existing vs Future RSA and ROFA

- Full use of runway length
- 500 ft RSA width, rather than minimum 400 ft



Existing RSA and ROFA



Future RSA and ROFA

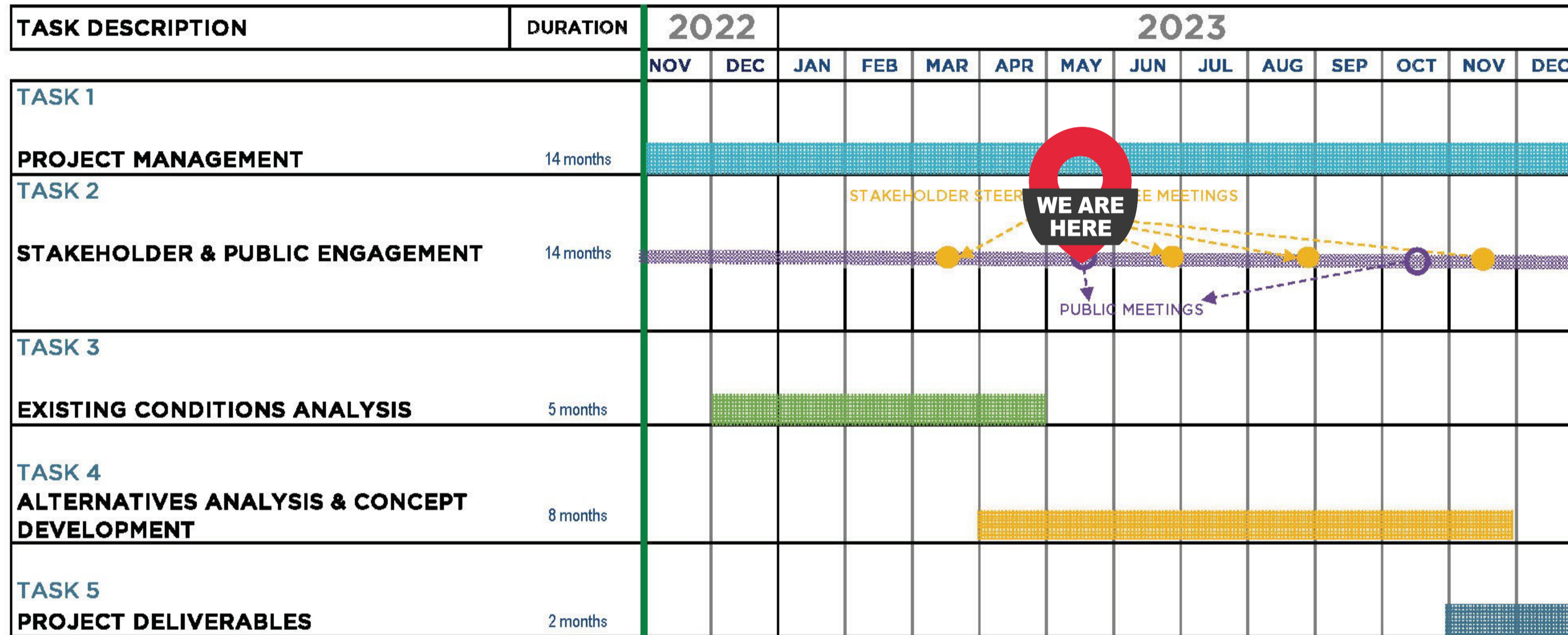


Scoping Study Schedule



Public Meeting - May 2023

SCOPING STUDY - REALIGNMENT OF US 41/MCCOLLUM PARKWAY



STAKEHOLDER STEERING COMMITTEE MEETINGS

PUBLIC MEETINGS

29-Dec-23



Next Steps

Public Meeting - May 2023

- Develop three conceptual alignment alternatives with typical sections
- Include alternative solutions to address potential environmental issues, FHWA proven safety countermeasures, and ARC and GDOT Complete Streets principles
- Consider alternatives to include economic development goals for the study area
- Conduct three stakeholder and one more public meeting
- Evaluate the performance of each alternative
- Evaluate opportunities for access management
- Evaluate feasibility and construction of alternative alignments and sections in logical phases or segments
- Evaluate the impact of each alternative on transit, aviation, environmental resources, utilities, and right-of-way
- Develop conceptual costs
- Select a preferred concept or combine alternatives into one optional concept