SR 306 to SR 369

What's Going On?

Forsyth County, in partnership with the Atlanta Regional Commission, is undertaking a regional transportation planning study of the SR 9 corridor from SR 306 to SR 369.

While this segment of SR 9 serves about 10,000 vehicles a day, projections into the future suggest that traffic and development growth will continue and result in over 25,000 vehicles a day in the future. Similarly, the 2018 Forsyth Comprehensive Transportation Plan identified the need to widen this segment from 2 to 4 lanes. Therefore, this process is being conducted to proactively identify the patterns and impacts of future growth to the corridor, understand the community's vision for the corridor, confirm the need for the widening anticipated in the Transportation Plan, and establish a timeline for the implementation of short and long term improvements along the corridor.

Background STATION







WE ARE

HFRF!

Community

Input

Community

Input

Schedule & Process

This planning process includes four overall phrases that will be completed in a six month process as indicated in the image below.

Phase 1 | Existing Conditions

- Field Observations
- · Collect Traffic Data
- Analyze Existing Capacity
- Safety Analysis
- Environmental Screening

Phase 2 | Needs Assessment

- Develop Vision for Corridor
- Anticipate Future Growth Patterns
 - Analyze Future Capacity
- Identify Corridor Needs

Phase 3 | Evaluation

- Develop & Test Alternatives
- Prepare Concept Layouts
- **Identify Recommendations**

Phase 4 | Action Plan

- Develop Implementation
 Timeframe
- Finalize Concept Layouts
- Concept Report & Plan Documentation



December 2019

Ja<mark>nuary 20</mark>20

February 2020

March 2020

April 2020





SR 306 to SR 369

Existing Conditions



Level of Service? (LOS)

Level of Service (LOS) is a measurement used to express levels of traffic congestion using the letters A through F. In general, conditions of LOS A through D are considered to be acceptable, while LOS E through F conditions suggest capacity and operational improvements may be needed.



At signalized locations, intersection LOS conditions can be measured by determining the average amount of delay vehicles experience in an hour of time. While more detail and analysis is needed to identify specific movements or approaches that experience delay, intersection LOS is a good overall indicator of traffic conditions. For unsignalized locations, the average amount of delay experienced for stop-controlled movements can be used to determine LOS, though results often need to be field verified.







SR 306 to SR 369

Existing Conditions



Safety

Our planning team is also using data to understand where introducing design elements can improve the safety of the corridor. An initial review of crash histories along the corridor indicate that the corridor has a higher rate of crashes when compared to other similar corridors around the state. As a result, our planning team is conducting more in-depth analysis of crashes along the corridor to determine any factors that may increasing the rate.

COMPARISON OF SR 9 TO SIMILAR CORRIDORS ACROSS THE STATE (2014-2018)

Year	Number of Crashes	Crash Rate*	Statewide Average Crash Rate	No of Injury Accidents	Injury Accident Rate*	Statewide Injury Accident Rate
2014	49	1025	329	12	251	97
2015	59	1006	194	11	187	63
2016	51	841	186	9	148	63
2017	23	359	199	9	140	67
2018	61	952	Not Available	10	156	Not Available

^{*} Values for rate of crashes and injury accidents are per 100 million vehicle-miles.

TYPES OF CRASHES ON SR 9 (2014-2018)

				Crash Type						
Year	Total Crashes	Injury Crashes	Fatalities	Angle	Head On	Rear End	Sideswipe	Not with a Motor Vehicle	Other	
2014	49	12	0	10	2	33	3	1	0	
2015	59	11	0	12	0	40	2	5	0	
2016	51	9	0	19	1	24	4	3	0	
2017	23	9	0	5	0	15	1	2	0	
2018	61	10	0	22	1	28	4	6	0	
Total	243	51	0	68	4	140	14	17	0	

CRASHES AT MAJOR INTERSECTIONS (2014-2018)

			Crash Type						
Total Crashes	Injury Crashes	Fatalities	Angle	Head On	Rear End	Sideswipe	Not with a Motor Vehicle	Other	
135	36	1	40	3	83	8	1	0	
27	5	0	10	0	12	2	3	0	
24	5	0	12	1	8	0	3	0	

These initial findings suggest that the large number of rear end crashes may be driving the relatively high crash rate. In addition to the rear ends at the major intersections, many of the rear end crashes are occurring at driveways and smaller intersections, suggesting that a lack of turn lanes for turning vehicles may be causing conditions where these types of crashes are more likely.

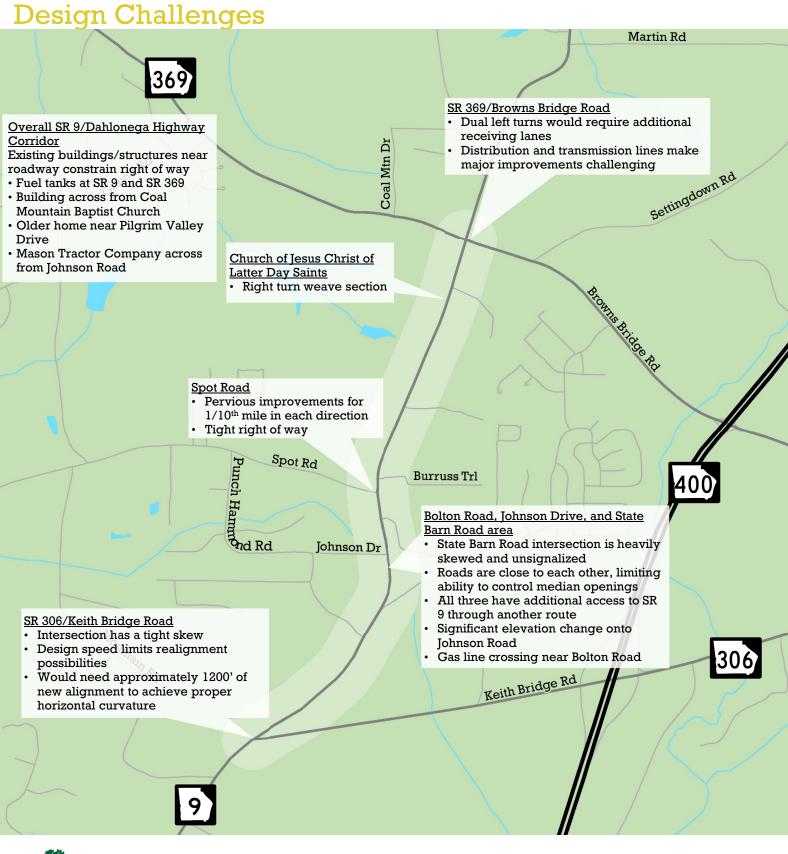




SR 306 to SR 369

Existing Conditions

STATION 2

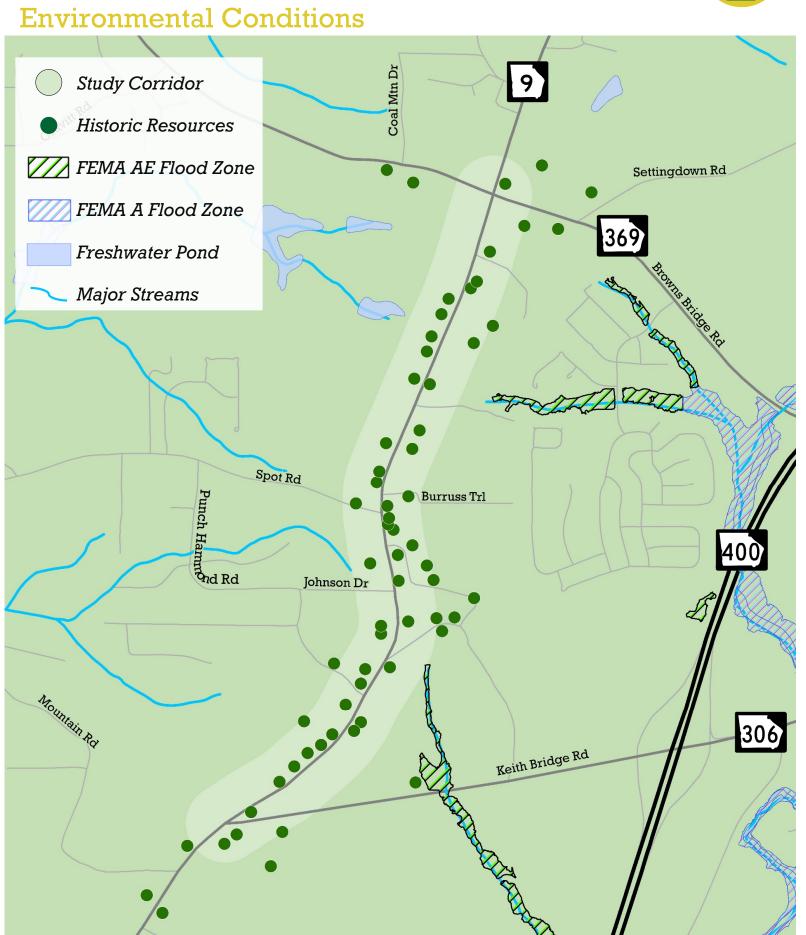




SR 306 to SR 369

Existing Conditions





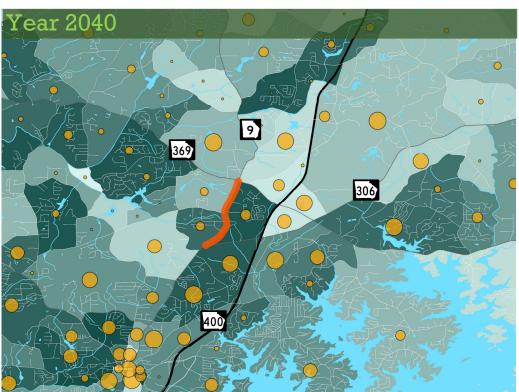
SR 306 to SR 369

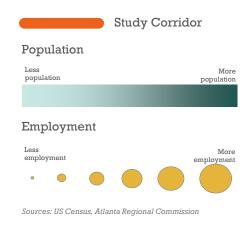
Future Conditions



What Does Future Growth Look Like?







Year 2015

<u>Population (in map view)</u> 66,000 people

Employment (in map view) 21,700 jobs

Year 2040

Population (in map view) 168,200 people

Employment (in map view) 37,700 jobs

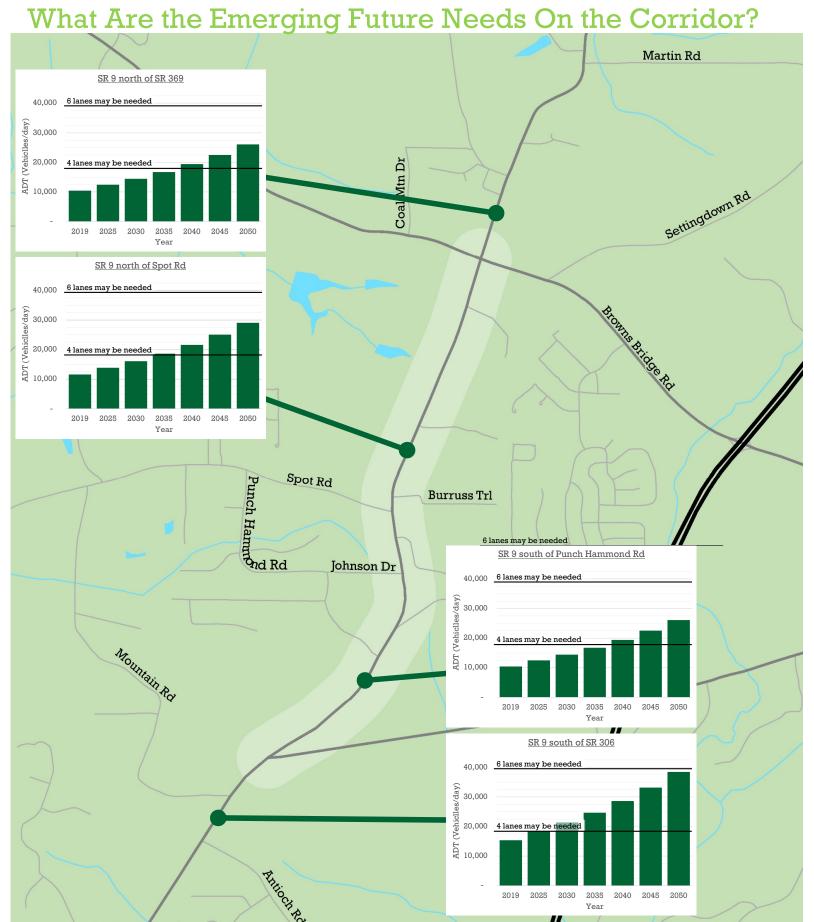
In 25 years, the population of the area is anticipated to increase by 155 percent while area employment is anticipated to increase by 74 percent!



SR 306 to SR 369

Future Conditions





SR 306 to SR 369

Let's Hear From You!

How important are the following strategies to you as we consider improvements to the SR 9 corridor?						
	NOT IMPORTANT AT ALL	NOT IMPORTANT	NEUTRAL	SOMEWHAT IMPORTANT	VERY IMPORTANT	
MOBILITY Identify and implement transportation improvements to address travel times and vehicle speeds through the corridor						
CONGESTION RELIEF Consider intersection improvements to reduce congestion, delays, and traffic queues						
BICYCLE/PEDESTRIAN INFRASTRUCTURE Install bicycle and pedestrian infrastructure to increase safety for bicyclists and pedestrians						
SAFETY Prioritize improvements at high crash locations and safety related improvements.						
FREIGHT MOVEMENTS Identify roadway and intersection improvements to accommodate truck traffic along the corridor						



SR 306 to SR 369

Let's Hear From You!



Use the 6 dots you have been provided to distribute across these 8 categories to indicate what is most important to you.

important to you.	
WIDENING	
Increase the number of travel lanes in order to improve roadway capacity	
INTERSECTION IMPROVEMENTS	
Construct turn lanes and improve intersection geometries	
TRAFFIC SIGNALS	
Install new traffic signals or add turn phases to existing signals	
ROUNDABOUTS	
Construct roundabouts at congested and/or intersections with safety concerns	
SIDEWALKS AND CROSSINGS Construct sidewalks and/or install pedestrian crossings to improve pedestrian accessibility and safety	
MULTI USE PATHS	
Construct multi-use facilities that can be used by pedestrians and bicyclists	
BICYCLE LANES	
Install roadway facilities to accommodate bicyclists	
OTHER	
Please identify any additional objectives or improvements we should consider	



SR 306 to SR 369

Let's Hear From You!



Please place 3 red dots on corridor locations where you regularly experience congestion.

Please place 3 yellow dots on corridor locations that you believe pose a safety concern.

