

# LOWER ROSWELL ROAD

## Project # E6020

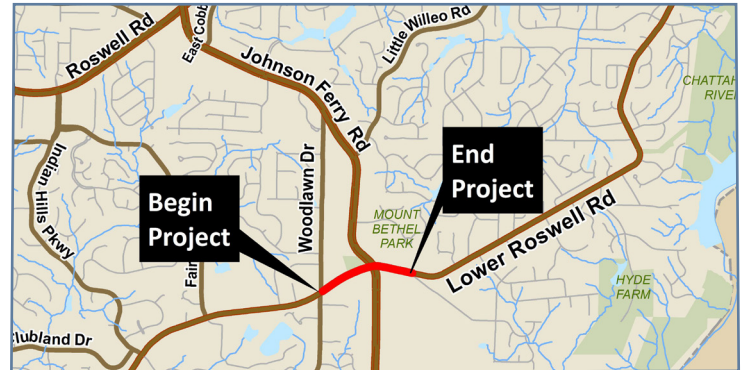


March 2024

As part of the 2011 SPLOST, Cobb County Department of Transportation developed Project #E6020 to improve safety and reduce delay along Lower Roswell Road between Woodlawn Drive and Davidson Road.

The project design team studied five alternatives evaluating each based on potential crash reductions, capacity, probable costs, property impacts, property access, and pedestrian/bicycle accommodation improvements. The preferred alternative, which includes multiple improvements, offers the best balance of these considerations.

The tentative schedule for construction of these improvements is over 24 months from 2024- 2026.



*PROJECT LIMITS: Lower Roswell Road from just west of the intersection with Woodlawn Drive to the intersection with Davidson Road.*

### 4 Key Components to the Improvements:

#### 1. A raised median is being added along Lower Roswell Road between Johnson Ferry Road and Davidson Road

This design will reduce left turn conflicts with through traffic ultimately reducing the number of angular crashes and increasing capacity. According to the Federal Highway Administration (FHWA), the safety benefits of a raised median include increased capacity by 30%, decreased delay by 30%, and total crashes reduced by 15%.

#### 2. Operation and intersection improvements will be made at the Woodlawn Drive intersection

These enhancements will improve capacity and operations. The crash history and volumes along this portion of Lower Roswell Road are less than between Johnson Ferry Road to Davidson Road.

#### 3. A shared-use path extension (varying between 8 and 10 feet wide) will be added from Davidson Road to Woodlawn Drive

This pedestrian and bicycle path is a part of the Master Trails and Greenways Plan adopted by the Cobb County Board of Commissioners.

#### 4. Access to businesses was taken into consideration when analyzing and designing the improvements.

A left turn access will be provided into the Kroger Parkaire Shopping Center as well as McDonald's.

### Project Benefits:



Adds Pedestrian Travel Options



Increases Turn-lane Capacity



Reduces Frequency & Severity of Crashes



Reduces Delay & Travel Times

### Public Outreach:

- Stakeholders and the public have been included since the inception of this project with multiple meetings and engagement opportunities.
- Three Public Information Open Houses (PIOH) (Nov. 2012, Jan. 2013, June 2023)
- Three stakeholder meetings (Nov. 2017, July 2019, June 2022)
- Three outreach meetings (April 2021, Aug. 2022, Sept. 2023)
- Multiple meetings with area businesses

### Project Quick Facts:

- 1
- Safety & operational improvements from Woodlawn Dr to Davidson Rd
- 2
- Westbound right lane carries through intersection with Woodlawn Dr to improve signal timing
- 3
- Dedicated right-turn lane from northbound Woodlawn Dr to eastbound Lower Roswell Rd
- 4
- Dual left-turn lanes provided from westbound Lower Roswell Rd to southbound Johnson Ferry Rd
- 5
- Right-turn lane from westbound Lower Roswell Rd to northbound Johnson Ferry Rd
- 6
- Raised median added on Lower Roswell Rd from Johnson Ferry Rd to Davidson Rd to enhance safety and operations (left-turn bays provide access into Kroger & McDonald’s driveways)
- 7
- Sidewalks provided throughout the corridor including a fourth crosswalk at Woodlawn.

### Projected Crash Reduction

The proposed alternative could eliminate particular types of crashes that occurred during the 10-year study period (2014-2023). Below is a summary of the results. All number of crashes indicated are for the total of the ten year period (2014 – 2023) unless explicitly stated otherwise.

616 total crashes

Along Lower Roswell Rd between Woodlawn Dr. and Davidson Rd.

363 # of crashes

Reported at the Johnson Ferry Rd. intersection.

57 # of crashes

Reported along the east segment of Lower Roswell Rd between Johnson Ferry Rd and Davidson Rd.

114 # of crashes

(Approximately 19%) that resulted in an injury to motorists.

44 # of crashes

Reported at the Davidson Rd intersection.

27 # of crashes

(Approximately 47%) along the east segment are correctable by the installation of a raised median.

115 # of crashes

Reported at the Woodlawn Dr. intersection.

37 # of crashes

Reported along the west segment of Lower Roswell Rd between Woodlawn Dr. and Johnson Ferry Rd.

20% increase in crashes

Along the east segment of Lower Roswell Rd. in recent years.

### Traffic (AADT)

The proposed improvements are expected to save:

- 32 seconds per motorist (approximately 45% reduction) at the Woodlawn Dr. intersection
- 24 seconds per motorist (approximately 22% reduction) at the Johnson Ferry Rd intersection

The Davidson Road intersection operates with nominal delay to motorists and is expected to operate similarly with the proposed improvements.

Annual Average Daily Traffic Volumes: Lower Roswell Road		
Year	West of Johnson Ferry Road	East of Johnson Ferry Road
2024	15,400	18,350
2034	17,000	20,300
2044	18,800	22,400

### Summary of Non-intersection Related Crash History along Lower Roswell Road

Year	Between Woodlawn Drive & Johnson Ferry Road	Between Johnson Ferry Road & Davidson Road
2014	5	5
2015	5	5
2016	3	12
2017	4	6
2018	3	2
2019	1	7
2020	2	1
2021	4	4
2022	6	3
2023	4	12
Total	37	57
Average of first 7 years	3	5
Average of recent 3 years	5	6

**NOTE:** Crash rates fell during the COVID Pandemic likely due to changes in traffic patterns. However, rates seem to have resumed to pre-pandemic levels in 2023.