

Morganton Rd Intersection Improvement

Morganton Rd and Bonanza Dr

Local ID: FAMPO008-I

Purpose: Congestion

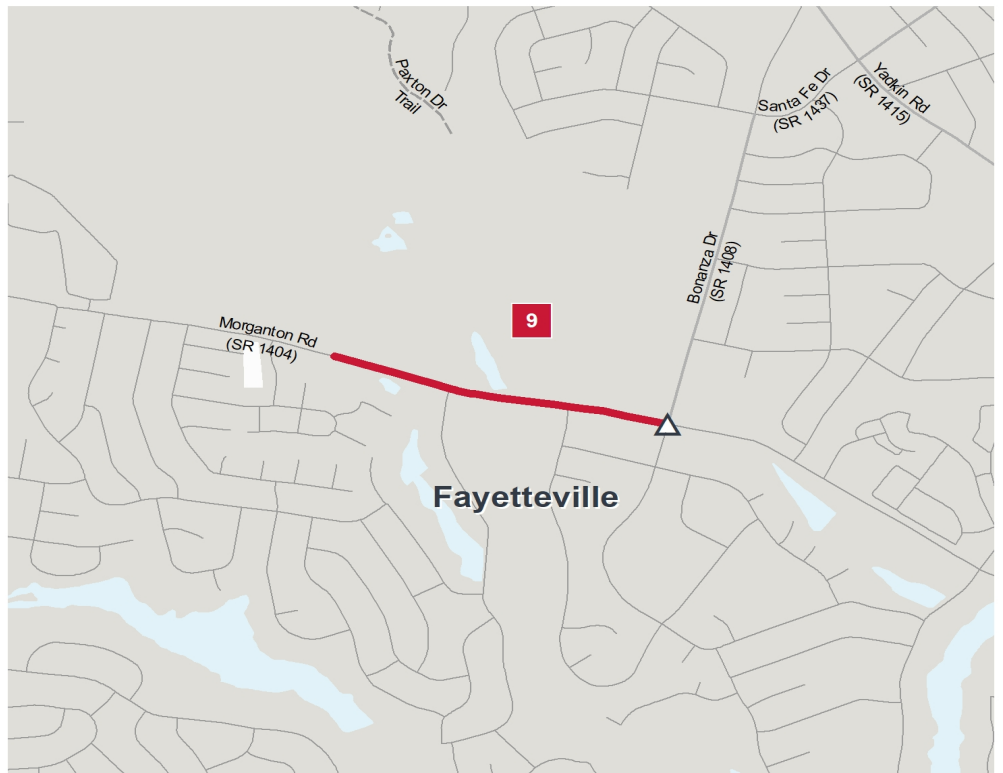
Improvement: Improve Existing

Identified Need

Morganton Rd and Bonanza Dr are projected to be over capacity by year 2045. Improvements are needed to relieve congestion on the existing facility and accommodate projected traffic volumes such that a minimum of Level of Service (LOS) D can be achieved.

Recommendation

Upgrade to multi-lane facility, add raised median and remove the center left turn lane. Include Intersection improvement to alleviate the congestion.



	Local ID #	Improve	New Location		Local ID #	Improve	New Location
Congestion / Mobility	#	Red line	Dotted red line	Interchange	Circle with dot	Square	Square with dot
Access Management / Operations	#	Blue line	Dotted blue line	Bridge / Overpass	Circle with dot	Circle	Circle with dot
Modernization	#	Cyan line	Dotted cyan line	Intersection	Circle with dot	Triangle	Triangle with dot
Other	#	Yellow line	Dotted yellow line				

Proposal At A Glance

Highway Class	Congestion & Mobility
Facility Type	Boulevard
Typical Section	04 B
Section Options	-
Length (miles)	0.62
Existing ROW (feet)	
Safety Risk Score	67

Proposal Data: 2018 Base Year 2045 Future Year

Improved Route	Existing	Without Proposal	With Proposal
<i>Facility Type</i>	Major Thoroughfare Multi-lane	Major Thoroughfare Multi-lane	Boulevard
<i>Travel Lanes</i>	4	4	4
<i>Volume (vpd)</i>	32000	30500	29800
<i>Capacity (vpd)</i>	29000	29000	48100

Impacted Route	Existing	Without Proposal	With Proposal
<i>Facility Type</i>	Major Thoroughfare Multi-lane	Major Thoroughfare Multi-lane	Major Thoroughfare Multi-lane
<i>Travel Lanes</i>	4	-	
<i>Volume (vpd)</i>	22500	19000	22800
<i>Capacity (vpd)</i>	24300	24300	24300

Capacity Data: Year

Facility will be Approaching Capacity (>80%)	-
Facility will be Over Capacity (>=100%)	-

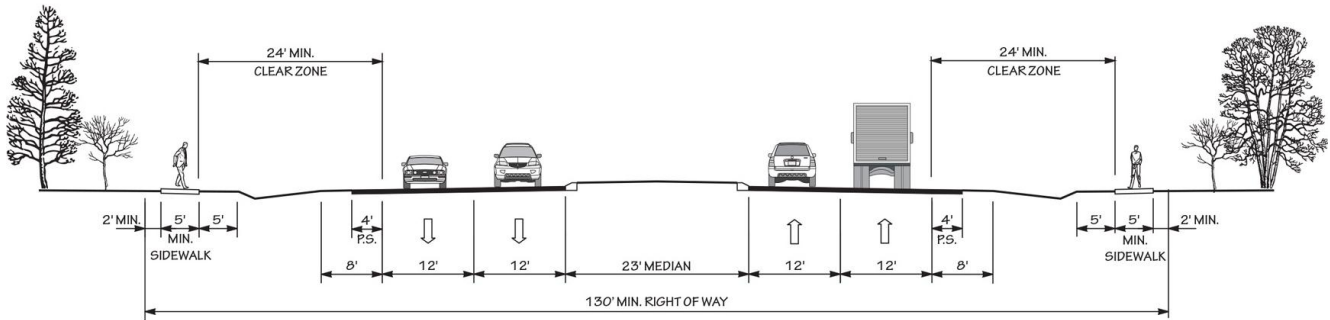


Typical Section Options:

None

TYPICAL SECTION No. 4B

4 LANE DIVIDED (23' RAISED MEDIAN) WITH PAVED SHOULDERS AND SIDEWALKS



POSTED SPEED 35-55 MPH

Project History/Linkage to Other Plans

This network deficiency has been first identified in the FAMPO / Cumberland County CTP, and it is recommended to have an intersection improved to address the deficiencies.

CTP Goal Analysis

Vision, Goals, & Objectives

The purpose of this project is to reduce congestion, reduce travel time, and improve safety along this facility. The Cumberland County / FAMPO CTP Goals include focusing on growth around established municipalities, infrastructure, and strategic nodes while encouraging safe, multi-modal transportation options with adequate connectivity. Additionally Cumberland County / FAMPO CTP goals strive to protect, preserve, and enhance environmental features and open space opportunities in conjunction with recognizing the strategic importance of military installations within and adjacent to the community and promoting economic development growth through transportation and planning means.

Goals & Objectives Survey

FAMPO008-I received one pedestrian map marker during the survey period. The Survey was launched on August 12, 2020 and closed on September 28, 2020. There was an English and Spanish version of the survey. A total of 228 participants created 530 comments / suggestions on the map of Cumberland County / FAMPO.

Potential Impacts

FAMPO008-I occurs within a Natural Heritage Element Occurrences zone and crosses Persimmon Creek.

Additional Information - Environmental

This project is within 150 feet of:

- River(s) and Stream(s)

- NC CREWS (North Carolina Coastal Region Evaluation of Wetland Significance) Area(s)
- Flood Hazard Area(s)
- Managed Area(s)
- National Wetlands Area(s)
- Waterbody(ies)

Additional Information - Title VI

This recommendation passes through one or more Census Blocks with the following characteristics:

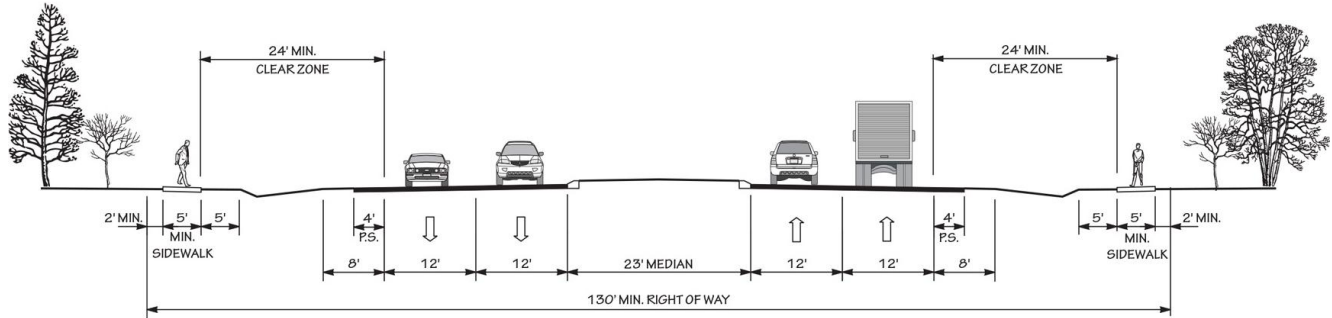
- Between 50% and 75% identify as African American
- Between 0% and 25% identify as 65+
- Between 5% and 15% identify as Asian
- Between 2.5% and 10% identify as Hawaiian or Pacific Islander
- Between 15% and 25% identify as Hispanic and Latino
- Between 0% and 5% identify as Over 18 w/ Limited English Proficiency (LEP) - Asian and Pacific Islander
- 0% identify as Over 18 w/ Limited English Proficiency (LEP) - Indo-European
- 0% identify as Over 18 w/ Limited English Proficiency (LEP) - Other
- Between 0% and 5% identify as Over 18 w/ Limited English Proficiency (LEP) - Spanish
- Between 0% and 15% identify as Native American
- Between 25% and 50% identify as Below Poverty Line
- Between 0% and 5% identify as Some Other Race
- Between 5% and 10% identify as Two of More Races

Typical Section Options:

None

TYPICAL SECTION No. 4B

4 LANE DIVIDED (23' RAISED MEDIAN) WITH PAVED SHOULDERS AND SIDEWALKS



POSTED SPEED 35-55 MPH

- Between 0% and 15% identify as Households with No Car