

McArthur Rd Widening

From Andrews Road to US 401 (Ramsay Road)

Local ID: H171354

Purpose: Congestion

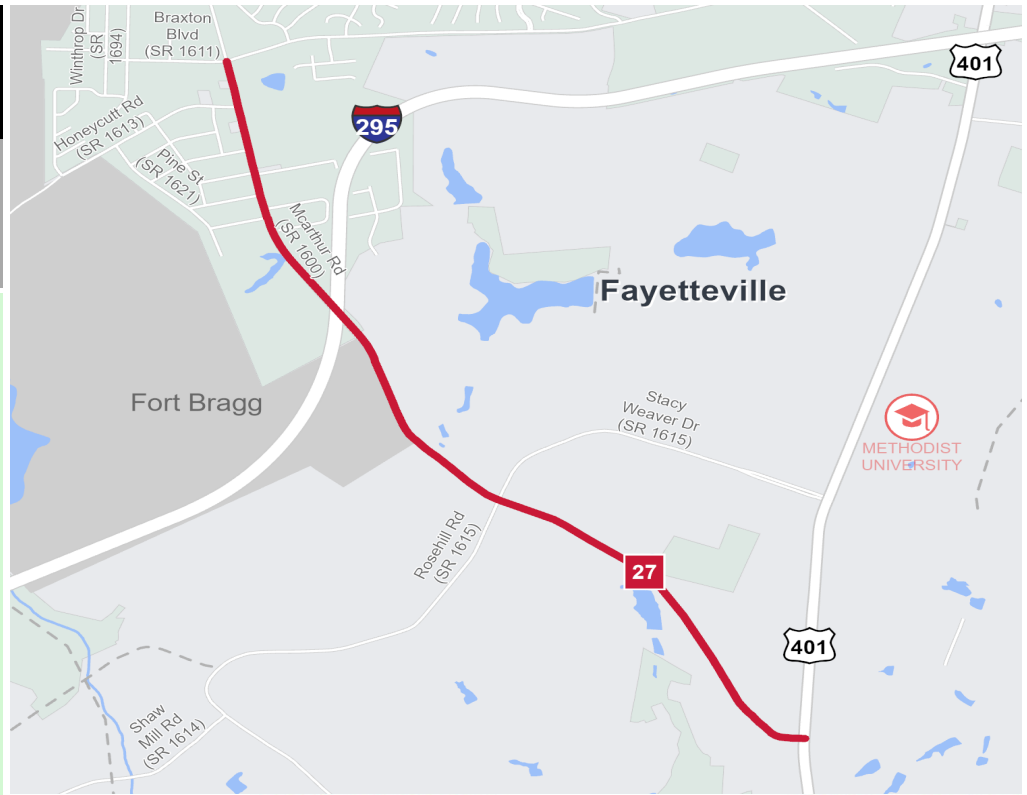
Improvement: Widening

Identified Need

This project, SR 1600 (McArthur Road) From Andrews Road to US 401 (Ramsay Road), is projected to be over capacity by 2045. Improvements are needed to accommodate projected traffic volumes such that a minimum LOS D can be achieved.

Recommendation

The proposal is to widen from 2 Lane Undivided to 4B - 4 Lane Divided (23' Raised Median) with Paved Shoulders and Sidewalks.



	Local ID #	Improve	New Location		Local ID #	Improve	New Location
Congestion / Mobility	#	—	---	Interchange	⊙	□	■
Access Management / Operations	#	—	---	Bridge / Overpass	⊙	○	●
Modernization	#	—	---	Intersection	⊙	∟	▲
Other	#	—	---				

Proposal At A Glance

Highway Class	Congestion & Mobility
Facility Type	Boulevard
Typical Section	04 B
Section Options	04 D
Length (miles)	3.30
Existing ROW (feet)	60-150
Safety Risk Score	56-100

Proposal Data: 2018 Base Year 2045 Future Year

Improved Route	2018 Base Year		2045 Future Year	
	Existing	Without Proposal	With Proposal	
Facility Type	Minor Thoroughfare	Minor Thoroughfare	Boulevard	
Travel Lanes	2	2	4	
Volume (vpd)	8200-18000	7100-18400	8000-23500	
Capacity (vpd)	10200-12700	10200-12700	28100-38100	

Capacity Data: Year

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

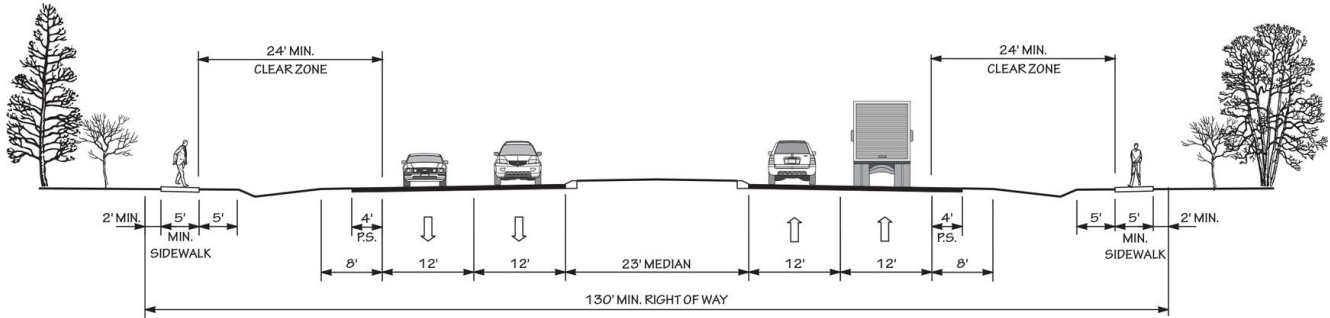


Typical Section Options:

04 D

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

Project history and Linkage to Other Plans

The proposed project is consistent with local and regional development goals and plans, such as the FAMPO 2045 MTP, adopted in 2019. It was also part of NCDOT Spot 5.0

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

H171354 project received 3 comments during the survey period. Comments emphasized the need for transit and to address congestion. 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.

Additional Information - Environmental

This project is within 150 feet of:

- River(s) and Stream(s)
- Land Habitat Indicator Guild(s)
- Managed Area(s)

- National Wetlands Area(s)
- Water Supply Watershed Area(s)
- Targeted Local Watershed Area(s)
- National Heritage Significant Area(s)
- Waterbody(ies)

Additional Information - Title VI

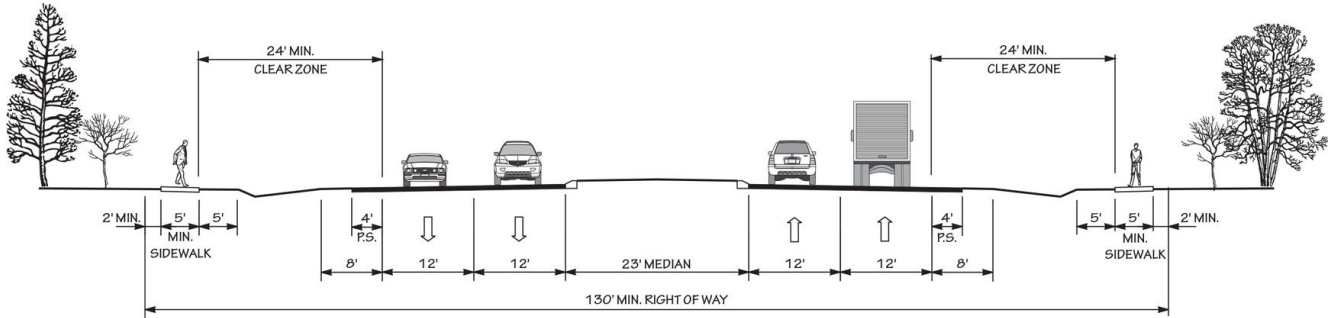
This recommendation passes through one or more Census Blocks with the following characteristics:

- Between 75% and 100% identify as African American
- Between 0% and 25% identify as 65+
- Between 5% and 15% identify as Asian
- Between 0% and 1% identify as Hawaiian or Pacific Islander
- Between 15% and 25% identify as Hispanic and Latino
- Between 5% and 15% 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 0% and 1% identify as Below Poverty Line
- Between 10% and 15% identify as Some Other Race
- Between 10% and 15% identify as Two of More Races

Typical Section Options:
04 D

TYPICAL SECTION No. 4B

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



POSTED SPEED 35-55 MPH

- Between 15% and 20% identify as Households with No Car