

NC 210 Improvements

From I-295 to South of US 401 Bypass

Local ID: U-4900

Purpose: **Mobility**

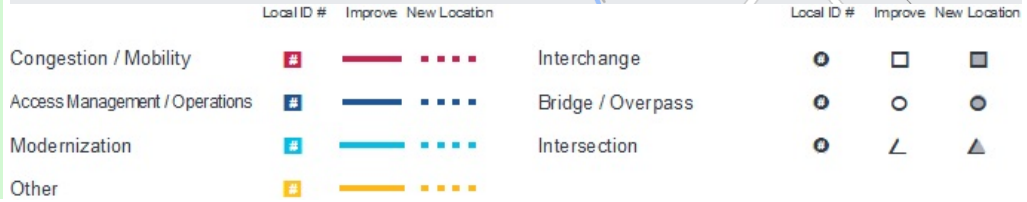
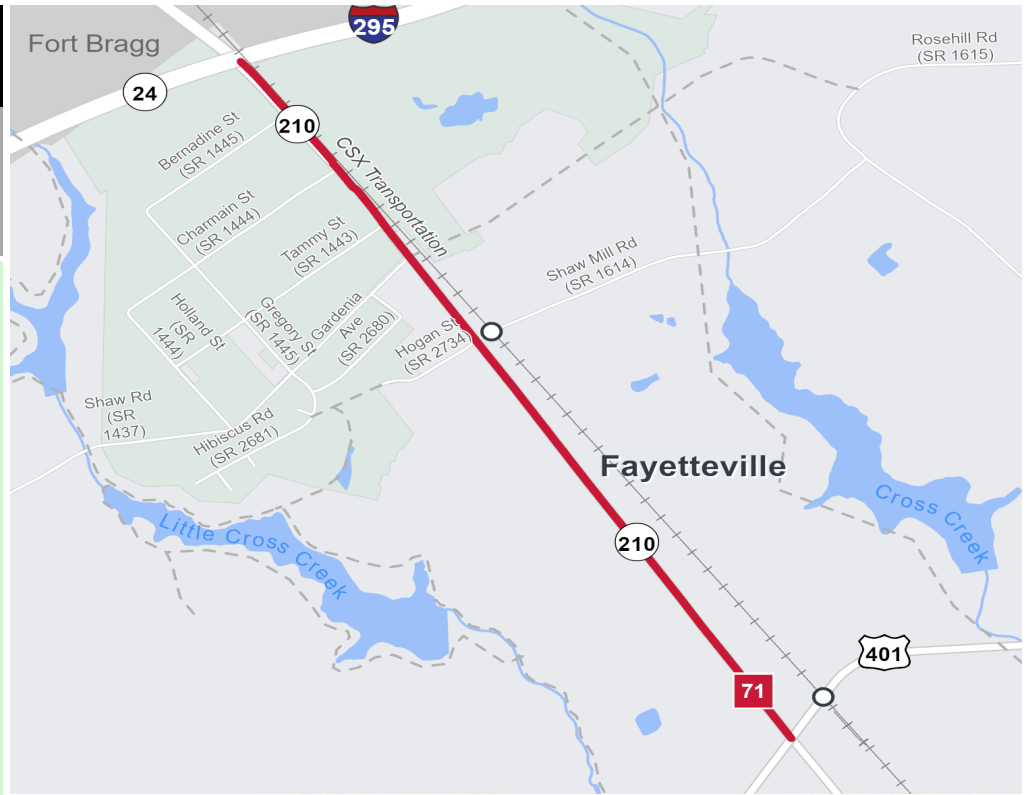
Improvement: **Improve Existing**

Identified Need

NC 210 (Murchison Road) is projected to be near capacity by 2045. Improvements are needed to accommodate projected traffic volumes such that a minimum LOS D can be achieved. The purpose of this project is to improve the traffic operations and mobility for Murchison Road.

Recommendation

The proposal is to convert NC 210 to a 4-lane median divided facility to include Access Management improvements such as replacing the continuous center left turn lane with a raised median, directional crossovers, U-turn bulb outs and bicycle and pedestrian accommodations.



Proposal At A Glance

Highway Class	Congestion & Mobility
Facility Type	Boulevard
Typical Section	04 L
Section Options	-
Length (miles)	2.10
Existing ROW (feet)	60-165
Safety Risk Score	89

Proposal Data: 2018 Base Year 2045 Future Year

Improved Route	2018 Base Year		2045 Future Year	
	Existing	Without Proposal*	Without Proposal*	With Proposal
Facility Type	Major Thoroughfare Multi-lane	Boulevard	Boulevard	Boulevard
Travel Lanes	4	6	6	6
Volume (vpd)	16000-20000	28200-32200	28200-32200	24800-29900
Capacity (vpd)	29000	57200	57200	57200

* Volume (vpd) and Capacity (vpd) values listed under Without Proposal column represents Existing and Committed (E+C) scenario.

Capacity Data: Year

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

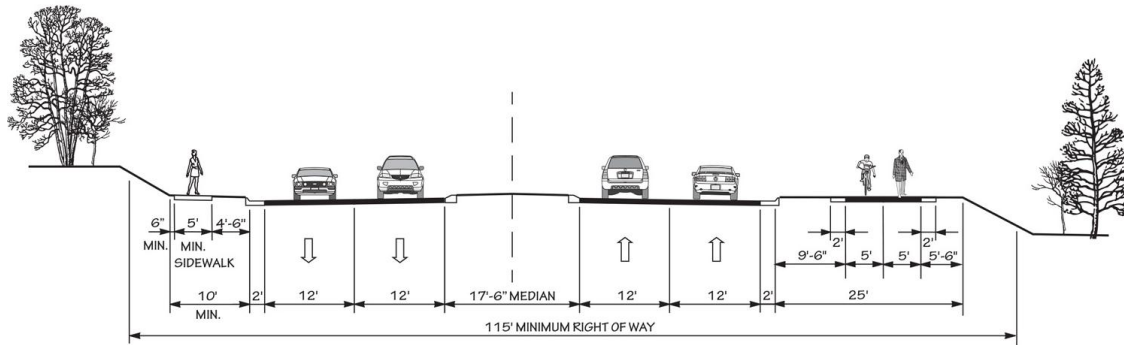


Typical Section Options:

None

TYPICAL SECTION No. 4L

4 LANE DIVIDED (17'-6" RAISED MEDIAN)
WITH CURB & GUTTER, SIDEWALKS AND SIDEPATH



POSTED SPEED 35-45 MPH

Project History/Linkage to Other Plans

The proposed improvements of Murchison Road is expected to provide some relief of the congestion, but heavy traffic congestion is still expected.

In May of 2008, the City of Fayetteville (City), partnered with LandDesign, Inc. and Basile Baumann Prose Cole & Associates, Inc. and released the Land Use and Economic Development Plan: Murchison Road Corridor. This plan outlined the existing state of the corridor, and identified a planning and zoning plan in order to revitalize the project corridor.

The intersection of US 401 Bypass and NC 210 was identified as a strategic location for a "Catalyst Site." The study went on to recommend the area surrounding the intersection to be developed with land uses characterized as medium density residential, neighborhood commercial, and mixed-use.

In December of 2008, Kimley-Horn and Associates, Inc., in conjunction with NCDOT, prepared the Murchison Road Corridor Study Phase II for the City. This study took a further look at some of the concepts outlined in the first report. This included a concept for a catalyst project at the intersection of US 401 Bypass and NC 210, called Pamalee Crossroads. This envisioned the area to develop with additional residential units, a gas station, and the possibility of grocery, personal care, banks, and restaurants in the area. This report went on to comment that "with the appropriate density and mixture of uses, this area could more successfully support the existing transit system."

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

U-4900 project received 3 comments during the survey period. Comments emphasized the need for bicycle accommodation and to address peak hour 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.

Potential Impacts

For more information, please refer project webpage [HERE](#)

Additional Information - Environmental

This project is within 150 feet of:

- Land Habitat Indicator Guild(s)
- Managed Area(s)
- Water Supply Watershed Area(s)
- Targeted Local Watershed Area(s)

Additional Information - Title VI

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

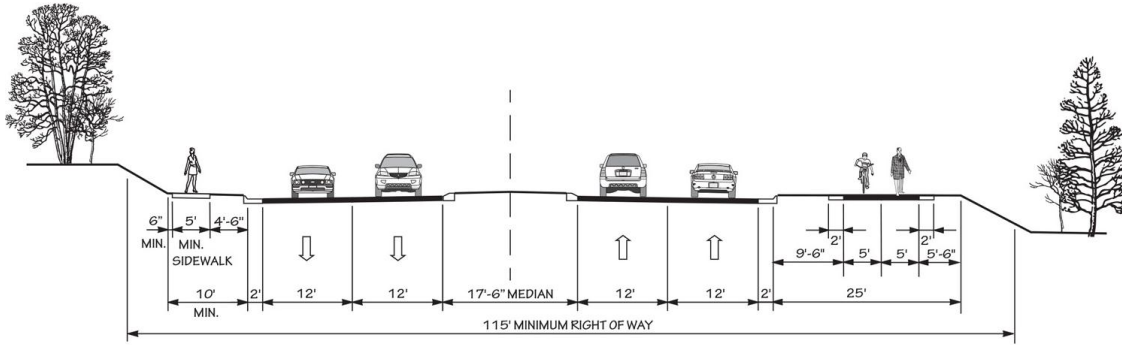
- Between 75% and 100% identify as African American
- Between 0% and 25% identify as 65+

Typical Section Options:

None

TYPICAL SECTION No. 4L

4 LANE DIVIDED (17'-6" RAISED MEDIAN)
WITH CURB & GUTTER, SIDEWALKS AND SIDEPATH



POSTED SPEED 35-45 MPH

- Between 0% and 5% identify as Asian
- Between 0% and 1% identify as Hawaiian or Pacific Islander
- Between 5% and 15% 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 5% and 15% identify as Over 18 w/ Limited English Proficiency (LEP) - Spanish
- Between 0% and 15% identify as Native American
- Between 50% and 75% identify as Below Poverty Line
- Between 5% and 10% identify as Some Other Race
- Between 5% and 10% identify as Two of More Races
- Between 20% and 50% identify as Households with No Car