

Yadkin Rd Widening

From Yadkin Rd ACP to Lake Valley Dr (SR 3499)

Local ID: FAMPO006-H

Purpose: Congestion

Improvement: Improve Existing

Identified Need

Yadkin Rd (SR 1415) in Fayetteville is 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

The proposal is to widen to 4-lane divided (23' Raised Median) with Curb & Gutter, Bike Lanes, and Sidewalks. This shall take into consideration multi-modal travel.



| | 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 D |
| Section Options | 04 G |
| Length (miles) | 2.30 |
| Existing ROW (feet) | 60-160 |
| Safety Risk Score | 78-100 |

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> | 19500-23000 | 18300-25900 | 18300-26000 |
| <i>Capacity (vpd)</i> | 24300 | 24300 | 33100 |

Capacity Data: Year

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

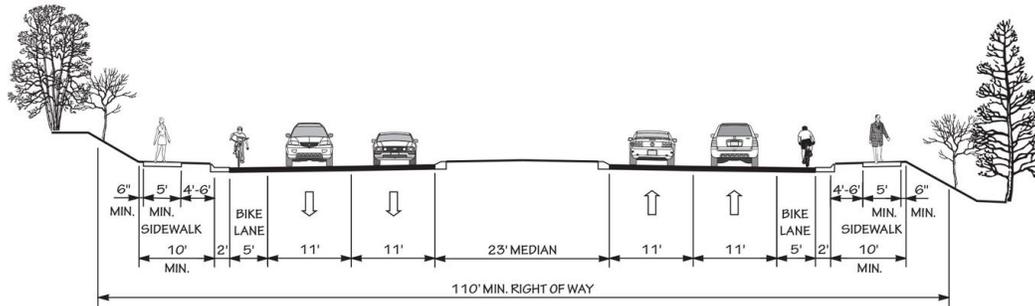


Typical Section Options:

TYPICAL SECTION No. 4D

04 G

4 LANE DIVIDED (23' RAISED MEDIAN) WITH CURB & GUTTER, BIKE LANES, AND SIDEWALKS



POSTED SPEED 35-45 MPH

Project History/Linkage to Other Plans

Yadkin Road (SR 1415) is projected to be over capacity by year 2045, and is proposed to be upgraded to boulevard standards.

B170791 project along this corridor was originally submitted in SPOT 5.0. B170791 project description is to construct sidewalk and pedestrian improvements including pedestrian traffic signals on both sides of Yadkin Road from US 401 (Skibo Road) to Brunswick Road.

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

FAMPO006-H received 4 comments during the survey period. Comments emphasized the need for bicycle and pedestrian accommodations along with roadway improvements. 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

FAMPO006-H occurs within a Natural Heritage Element Occurrences zone and crosses Beaver Creek.

Additional Information - Environmental

This project is within 150 feet of:

- Hazard Substance Disposal Site(s)
- Hazard Waste Facility
- Mitigation Site(s)
- River(s) and Stream(s)
- River(s) and Stream(s)-NCIR
- NC CREWS (North Carolina Coastal Region Evaluation of Wetland Significance) Area(s)
- Flood Hazard 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:

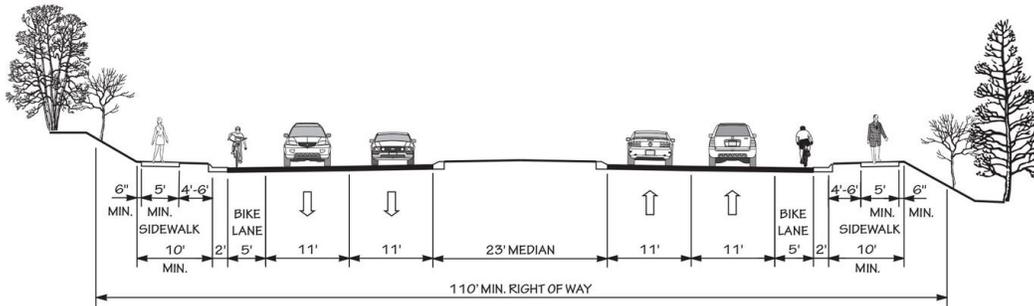
- Between 50% and 75% identify as African American
- Between 25% and 50% identify as 65+
- Between 5% and 15% identify as Asian
- Between 2.5% and 10% identify as Hawaiian or Pacific Islander
- Between 25% and 50% identify as Hispanic and Latino
- Between 0% and 5% identify as Over 18 w/ Limited English Proficiency (LEP) - Asian and Pacific Islander
- 0% identify as Over 18 w/ Limited English Proficiency (LEP) - Indo-European

Typical Section Options:

TYPICAL SECTION No. 4D

04 G

4 LANE DIVIDED (23' RAISED MEDIAN) WITH CURB & GUTTER,
BIKE LANES, AND SIDEWALKS



POSTED SPEED 35-45 MPH

- 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 15% and 25% identify as Below Poverty Line
- Between 5% and 10% identify as Some Other Race
- Between 15% and 20% identify as Two of More Races
- Between 20% and 50% identify as Households with No Car