

NC 87 Improvements

From NC 24 to NC 27

Local ID: HARN0015-H

Purpose: Mobility

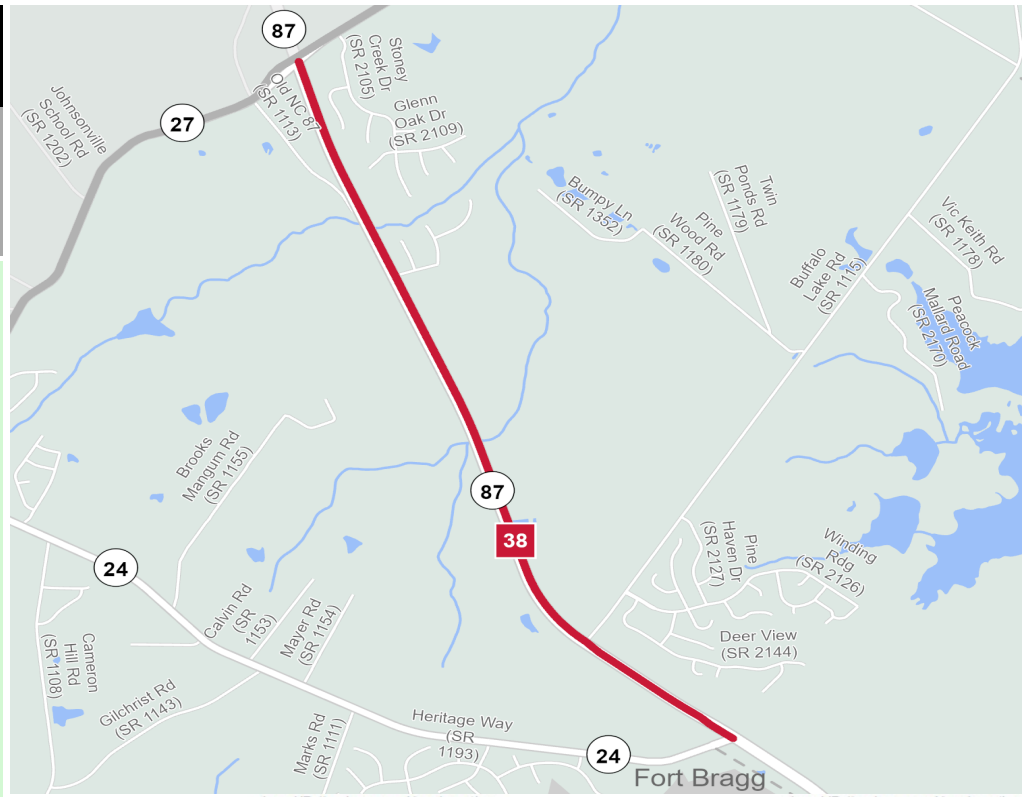
Improvement: Improve Existing

Identified Need

NC 87, between NC 24 and NC 27, is expected to be near capacity by 2045. NC 87 is identified as a Strategic Transportation Corridor (STC). This project is to provide connectivity and mobility within the region.

Recommendation

The CTP project proposal (Local ID HARN0015-H) is to improve a four-lane expressway facility with raised median and convert existing intersections to reduce conflict intersections (RCI).



Proposal At A Glance

Highway Class	Congestion & Mobility
Facility Type	Expressway
Typical Section	04 A
Section Options	-
Length (miles)	3.10
Existing ROW (feet)	75
Safety Risk Score	11

Proposal Data: 2018 Base Year 2045 Future Year

Improved Route	2018 Base Year		2045 Future Year	
	Existing	Without Proposal	With Proposal	
Facility Type	Expressway	Expressway	Expressway	
Travel Lanes	4	4	4	
Volume (vpd)	22500-32000	31400-44100	28500-43500	
Capacity (vpd)	33500-41200	33500-41200	46400-57100	

Capacity Data: Year

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

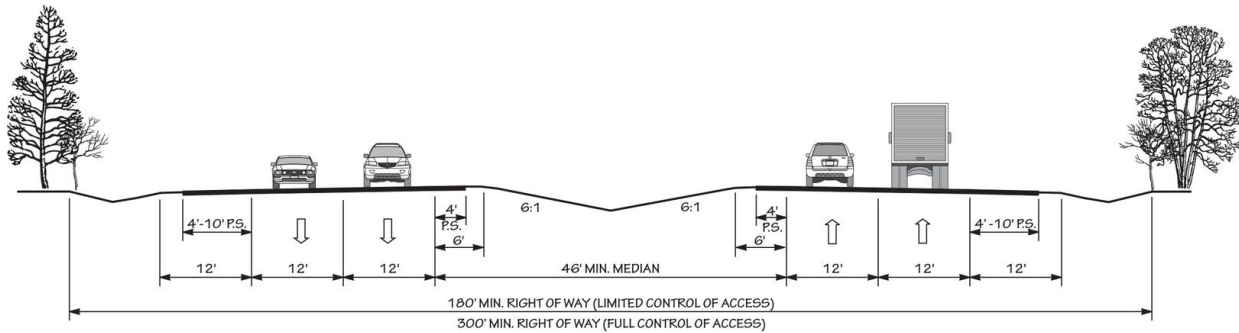


Typical Section Options:

None

TYPICAL SECTION No. 4A

4 LANE DIVIDED (46' DEPRESSED MEDIAN) WITH PAVED SHOULDERS



POSTED SPEED 45-70 MPH

Project History/Linkage to Other Plans

NC 87 is a major facility in Harnett County providing a vital connection for residents in the area that travel South to Fort Liberty and Fayetteville.

NC 87 currently is a 4-lane cross-section. It has been identified as a Strategic Transportation Corridor (STC) corridor K.(US 421/ NC 87).

The 1995 Harnett County Thoroughfare Plan recommended improvement of NC 87 from the Cumberland County line to the intersection with NC 24 to a multi-lane facility. Consistent with this prior recommendation, the 2011 Harnett County CTP and CTP Amendemnt also recommends improvement of the NC 87.

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

HARN0015-H project received no comments 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

Land Use Patterns

Land use adjacent to NC 87 is primarily low density residential and medium density commercial. The commercial land use is primarily located in the Buffalo Lakes area in the southern portion of Harnett County. Residential land use adjacent to existing NC 87 is sparse. Because the facility is divided and high speed, its primary purpose is providing mobility. This will continue to limit direct land use impacts and driveway access along the corridor. However, high growth is expected in the area due to Fort Liberty and commuters to Fayetteville moving into the area are expected. Residential and commercial land use will continue to grow and the need to enhance NC 87 to handle these land uses will be critical.

Natural & Human Environmental Context

NC 87 does go through Fort Liberty, so any improvements will need to be coordinated so that impacts do not negatively affect the military installation.

Additional Information - Environmental

This project is within 150 feet of:

- River(s) and Stream(s)
- River(s) and Stream(s)-NCIR
- 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:

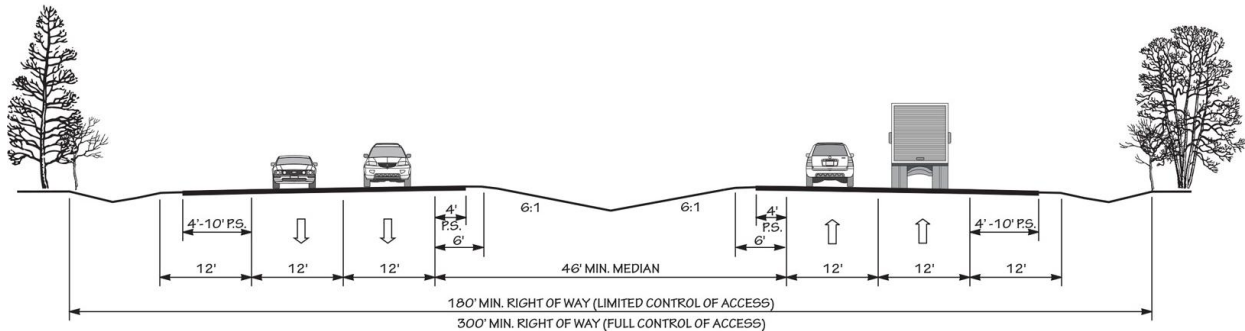
- Between 25% and 50% identify as African American
- Between 0% and 25% identify as 65+

Typical Section Options:

TYPICAL SECTION No. 4A

None

4 LANE DIVIDED (46' DEPRESSED MEDIAN) WITH PAVED SHOULDERS



POSTED SPEED 45-70 MPH

- Between 0% and 5% identify as Asian
- Between 0% and 1% 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
- 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 5% and 15% identify as Below Poverty Line
- Between 10% and 15% identify as Some Other Race
- Between 5% and 10% identify as Two of More Races
- Between 15% and 20% identify as Households with No Car