

NC 87 Upgrade

From SR 2212 (Doc Bennette Road) to Sand Hill Road / Upton Tyson Road

Local ID: H151005

Purpose: Facility Deficiencies

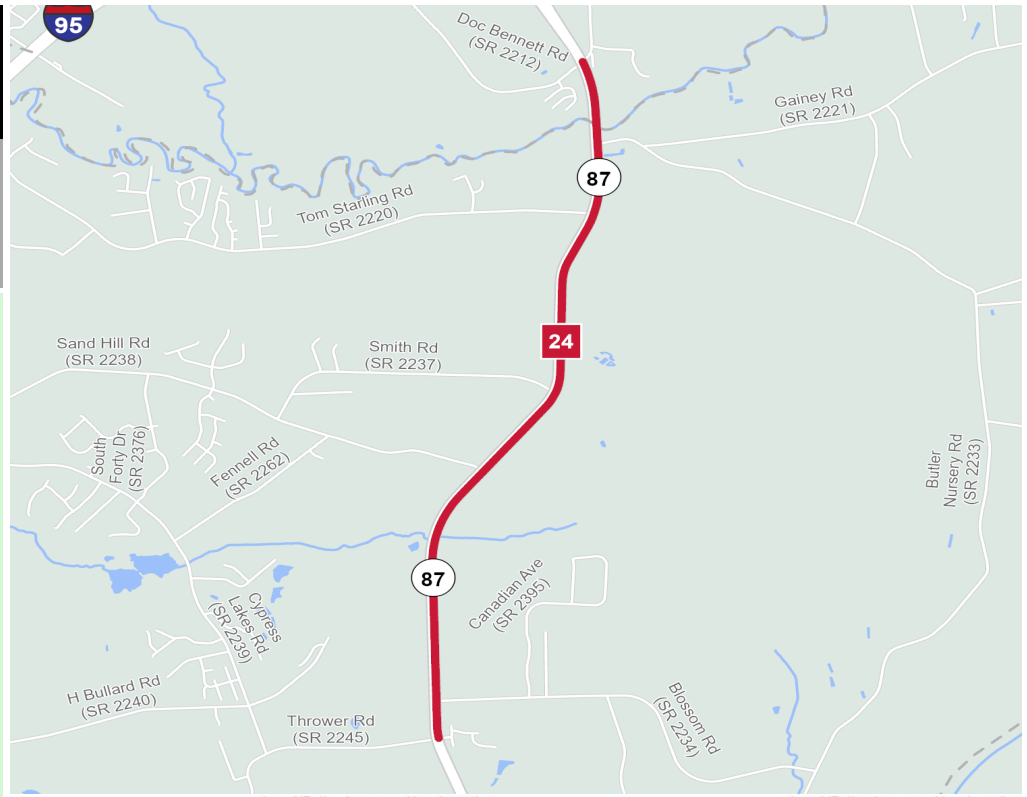
Improvement: Improve Existing

Identified Need

This area is experiencing significant residential growth. As a result, current traffic operations along this corridor are negatively impacted. There is a need to address the facility deficiency.

Recommendation

The proposal is to upgrade from an arterial to a superstreet design and convert existing at-grade intersections to reduce conflict intersections (RCI).



	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	Expressway
Typical Section	04 A
Section Options	-
Length (miles)	3.80
Existing ROW (feet)	75-210
Safety Risk Score	11-67

Proposal Data: 2018 Base Year 2045 Future Year

Improved Route	Existing	Without Proposal	With Proposal
Facility Type	Expressway	Expressway	Expressway
Travel Lanes	4	4	4
Volume (vpd)	13500-18000	18400-23100	17200-21200
Capacity (vpd)	45300	45300	45300

Capacity Data: Year

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

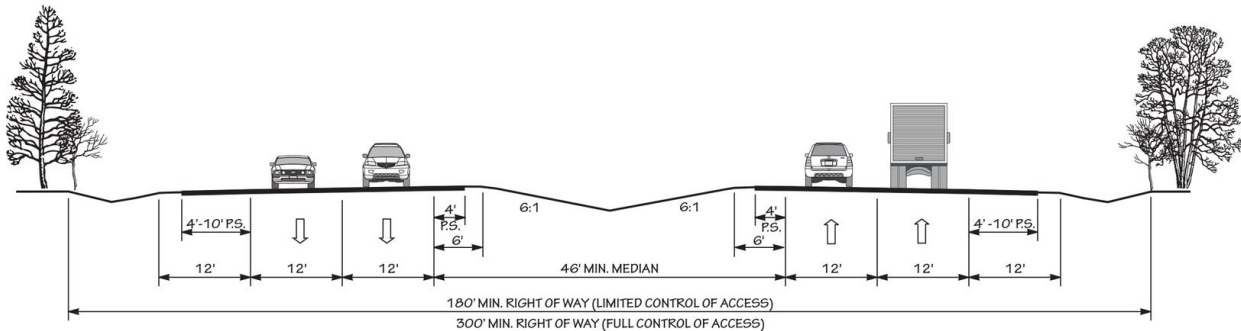


Typical Section Options:

TYPICAL SECTION No. 4A

None

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



POSTED SPEED 45-70 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

This Project is also submitted for SPOT 6.0 (H191620).

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

H151005 project received 2 comments during the survey period. Comments indicated the need for intersection improvement. 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:

- Ambient Water Quality Monitoring Site(s)
- Major River(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)
- Land Habitat Indicator Guild(s)
- National Wetlands 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:

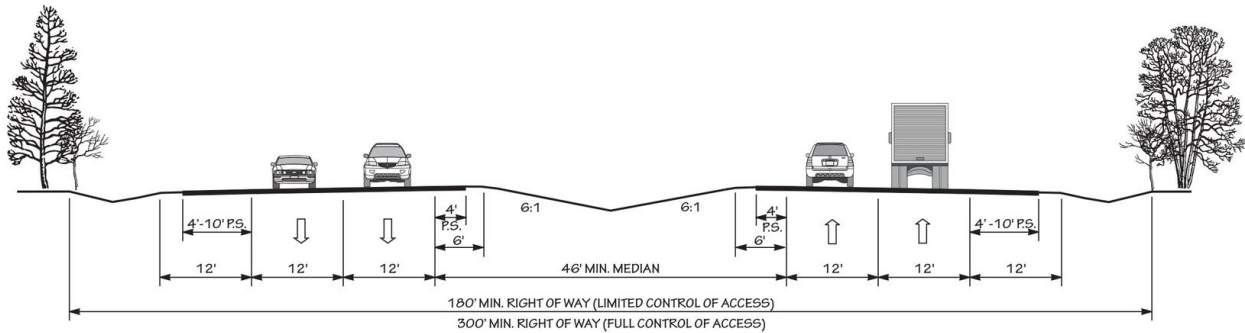
- Between 50% and 75% identify as African American
- Between 0% and 25% identify as 65+
- Between 5% and 15% identify as Asian
- Between 0% and 1% identify as Hawaiian or Pacific Islander
- Between 5% and 15% identify as Hispanic and Latino
- Between 0% and 5% identify as Over 18 w/ Limited English Proficiency (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
- 0% identify as Over 18 w/ Limited English Proficiency (LEP) - Spanish
- Between 0% and 15% identify as Native American

Typical Section Options:

TYPICAL SECTION No. 4A

None

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



POSTED SPEED 45-70 MPH

- Between 15% and 25% identify as Below Poverty Line
- Between 0% and 5% identify as Some Other Race
- Between 0% and 5% identify as Two of More Races
- Between 0% and 15% identify as Households with No Car