

NC-24 Improvements

From the Onslow County boundary to US 70

Local ID: **CART30011-H**

Purpose: **Congestion**

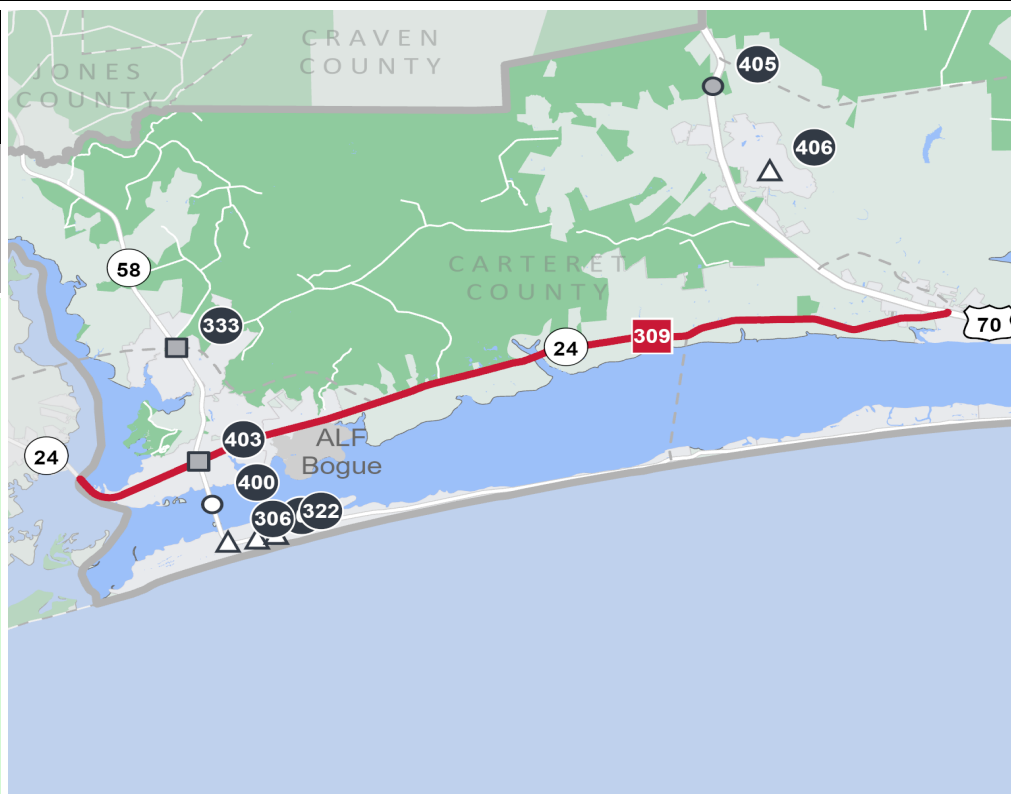
Improvement: **Improve Existing**

Identified Need

NC 24 is projected to be over capacity by year 2050. 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. The multi-use path will help promote biking and walking.

Recommendation

CART30011-H proposes upgrading the roadway from the Onslow County border to US 70 for access management and intersection improvement. This recommendation also includes multi-use path.



	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 J
Section Options	-
Length (miles)	19.00
Existing ROW (feet)	100
Safety Risk Score	11-78

Proposal Data: 2019 Base Year 2050 Future Year

Improved Route	Existing	Without Proposal	With Proposal
Facility Type	Major Thoroughfare Multi-lane	Major Thoroughfare Multi-lane	Expressway
Travel Lanes	4	4	4
Volume (vpd)	18000-32000	25500-51800	13600-42000
Capacity (vpd)	26700-34500	26700-34500	58500

Capacity Data: Year

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

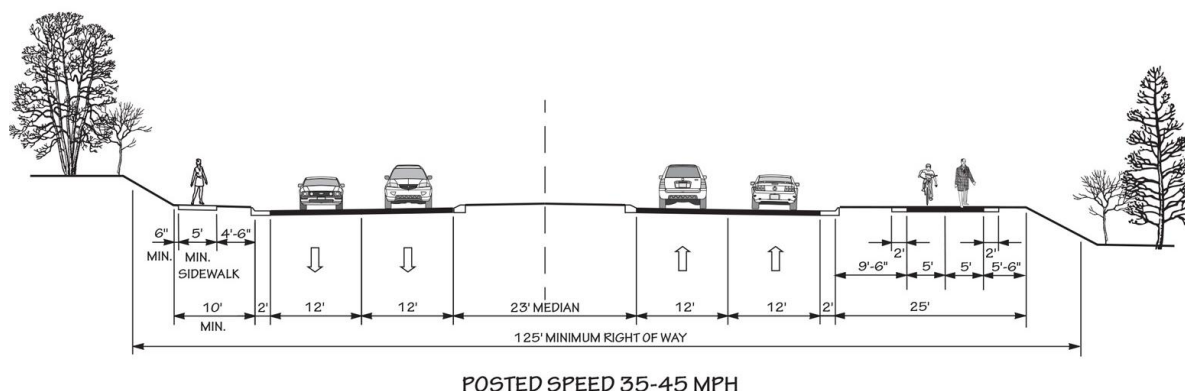


Typical Section Options:

None

TYPICAL SECTION No. 4J

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

**Project History/Linkage to Other Plans**

NC 24 was listed as multiple projects in SPOT (H191103, H191544, and H230752).

The NC 24 corridor is identified as a Strategic Transportation Corridor (STC) within the North Carolina Transportation Network (NCTN). The STC Policy and Map were adopted by the North Carolina Department of Transportation (NCDOT) on March 4, 2015. The purpose of the NCTN is to preserve and maximize mobility and connectivity on a core network of multimodal transportation corridors, promoting environmental stewardship and economic prosperity. NC 24 is designated as Corridor W in the STC Map.

The Carteret County Comprehensive Transportation Plan (CTP), adopted in September 2014, is a long-range plan that studied multi-modal transportation needs through the year 2040. The plan designated NC 24 in the project area as an expressway needing improvement. It recommended a multiuse path be added for the length of the corridor in Carteret County.

The Onslow County Draft CTP (September 2017) recommended NC 24 be upgraded to an expressway in the project area. The plan identified NC 24 as the only major connection between Swansboro and Jacksonville and into Carteret County.

The Cedar Point Comprehensive Plan (2012) noted community concern over traffic safety on NC 24 within the town limits and the need to maintain access to residential communities.

The Draft Cape Carteret Strategic Plan (2014) noted there had been an increase in traffic and collisions along NC 24 and identified a goal to create a safe environment for pedestrian and vehicular traffic. A stated goal in the plan was to reduce the amount of vehicular accidents on NC 58 and throughout the town. The plan identified

methods such as access management and speed reductions to accomplish this. Citizen surveys noted that traffic was one of the most important issues facing the town.

The 2032 Draft Morehead City Plan includes multi-use path recommendations as well, which were included as well.

CTP Goal Analysis**Goals and Objectives Survey**

The vision for Carteret County is to have a safe, diverse, efficient, integrated, and environmentally sensitive and sustainable multi-modal transportation system for its residents, visitors, and businesses. The Carteret County CTP goals include: promoting a safer and more secure transportation network, creating a more efficient transportation system, providing an integrated and multimodal transportation network, supporting regional growth in the transportation network, preserving the social and environmental character of the region, extending the life of the transportation system by developing sustainable transportation solutions, and anticipating future needs of the area in terms of resiliency and flooding.

Public Comments

This Carteret County CTP survey was open from March 1st, 2023 to April 30th, 2023 and there was an English and Spanish version of the survey. There were a total of 439 participants and 1,387 comments as pins on the map were received. This project received 161 comments as pins during the online survey. The main concerns were congestion, maintenance, accidents, and bike and pedestrian needs.

Other Information

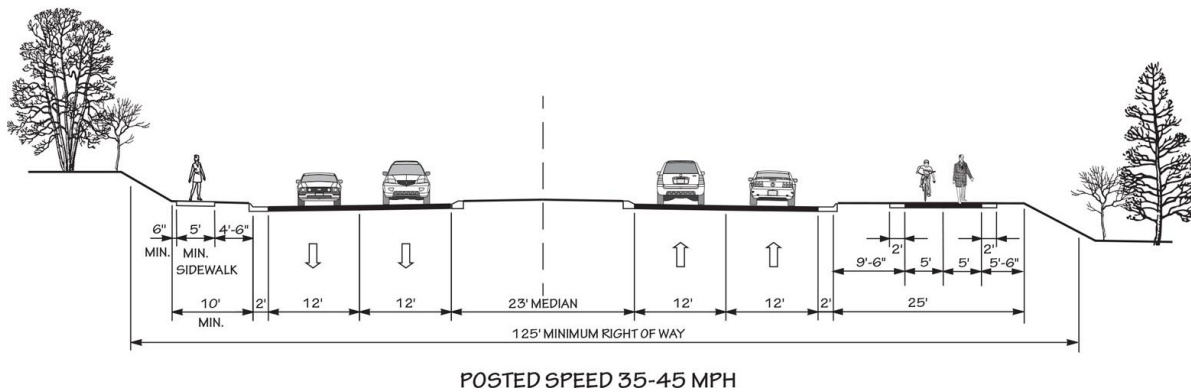
CART10036-H is an alternative to a segment of this project, CART30011-H. CART10036-H recommends adding a bypass for NC 24 near Cape Carteret leading to

Typical Section Options:

None

TYPICAL SECTION No. 4J

4 LANE DIVIDED (23' RAISED MEDIAN)
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**Swansboro.**

All environmental data in the database was considered.
This Project is within 150 feet of:

- 1 Anadromous Fish Spawning Area Feature(s)
- 1 Beach And Waterfront Access Feature(s)
- 37 Benthic Habitat Feature(s)
- 1 Colonial Waterbird Nesting Site Feature(s)
- 64 Coastal Region Evaluation Of Wetland Significance Feature(s)
- 3 Fish Nursery Area Feature(s)
- 35 Flood Hazard Area Feature(s)
- 4 Gameland Feature(s)
- 2 Hazard Substance Disposal Site(s)
- 3 High Quality And Outstanding Resource Water Feature(s)
- 8 Impaired Waters Line Feature(s)
- 4 Impaired Waters Polygon Feature(s)
- 5 Landscape Habitat Indicator Guild Feature(s)
- 6 Major River Feature(s)
- 11 Managed Area Feature(s)
- 22 Natural Heritage Element Occurrence Feature(s)
- 1 Natural Heritage Natural Area Feature(s)
- 57 Wetland Feature(s)
- 19 River And Stream Feature(s)
- 17 Lake And Pond Feature(s)
- 2 Protected Area Feature(s)
- 10 Quality Monitored River And Stream Feature(s)

- 5 Target Local Watershed Feature(s)

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

- Between 25% and 50% identify as 65+
- Between 0% and 25% identify as African American
- Between 5% and 15% identify as Asian
- Between 15% and 25% identify as Hispanic and Latino
- Between 5% and 15% identify as Over 18 with Limited English Proficiency (LEP) - Asian and Pacific Islander
- 0% identify as Over 18 with Limited English Proficiency (LEP) - Indo-European
- Between 0% and 5% identify as Over 18 with Limited English Proficiency (LEP) - Other
- Between 0% and 5% identify as Over 18 with Limited English Proficiency (LEP) - Spanish
- Between 5% and 15% identify as Native American
- Between 1% and 5% identify as Some Other Race
- Between 10% and 15% identify as Two of More Races
- Between 15% and 25% identify as Below Poverty Line
- Between 15% and 20% identify as Households with No Car