

NC 24 Bypass

From NC 24 to the county boundary

Local ID: CART10036-H

Purpose: Congestion

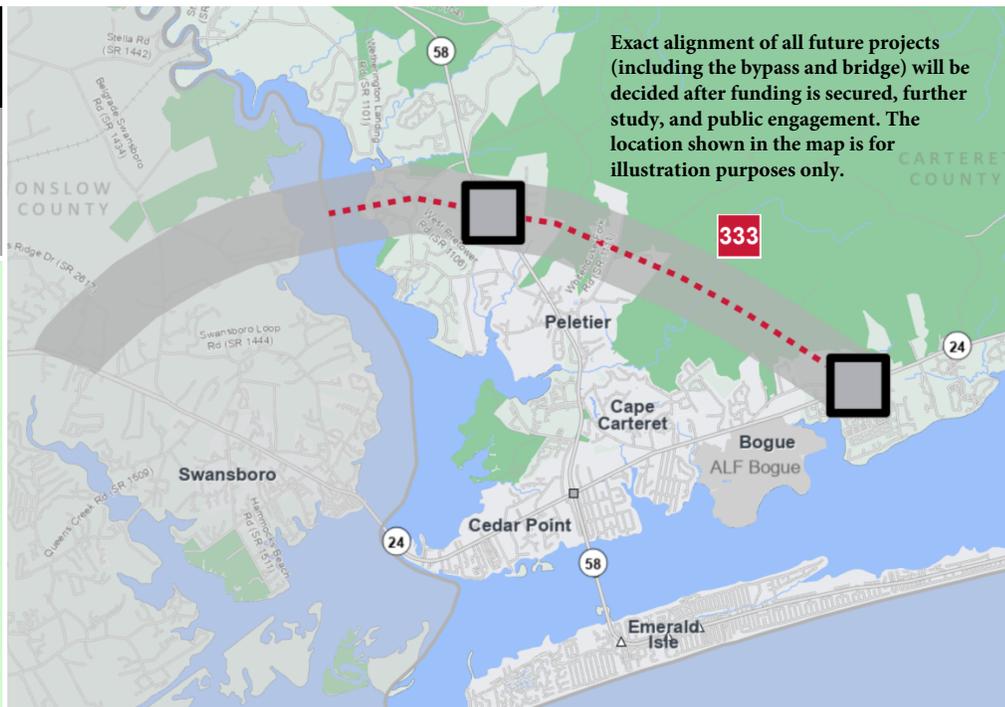
Improvement: New Location

Identified Need

NC 24 is projected to be over capacity by year 2050. Improvements in the area are needed (after further study and public outreach) to relieve congestion on the existing facility.

Recommendation

This project recommendation (after a detailed study and public outreach) is to construct a 4-lane bypass.



Exact alignment of all future projects (including the bypass and bridge) will be decided after funding is secured, further study, and public engagement. The location shown in the map is for illustration purposes only.



Proposal At A Glance

Highway Class	Congestion & Mobility
Facility Type	Freeway
Typical Section	04 A
Section Options	-
Length (miles)	7.40
Existing ROW (feet)	
Safety Risk Score	-

Proposal Data: 2019 Base Year 2050 Future Year

	Existing	Without Proposal	With Proposal
New Location			
Facility Type	-	-	Freeway
Travel Lanes	-	-	4
Volume (vpd)	-	-	28300
Capacity (vpd)	-	-	62600

Capacity Data: Year

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

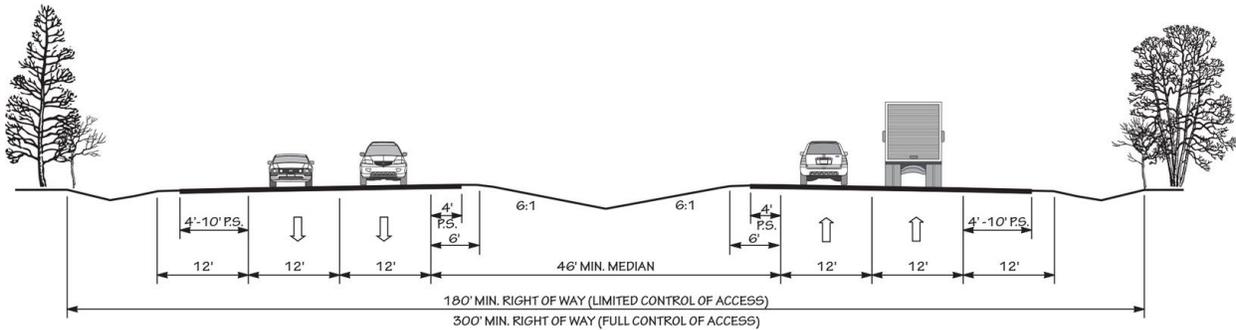


Typical Section Options:

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

The 1993 Swansboro Thoroughfare Plan included a bypass for NC 24. The 2001 Crystal Coast area 'Long-Range' Transportation Plan also included a bypass. The 2006 Swansboro Comprehensive Transportation Plan (CTP) did not include a bypass recommendation. The Cedar Point Comprehensive Plan (2012) noted that 'A 24 bypass of Cedar Point should be considered as a long range plan'.

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 6 comments as pins during the online survey. The main concerns were congestion, accidents, bike and pedestrian.

Other Information

During the alternate analysis phase, NC 24 improvement alternatives were analyzed. NC 24 improvements may

aid in relieving the project congestion on NC 24 near Cedar Point.

The Region 16 Travel Demand Model was used to analyze this bypass scenario.

CART30011-H: Proposes upgrading NC 24 from the Onslow County border to US 70 for access management and intersection improvement.

A portion of CART30011-H is an alternative project to this project, CART10036-H.

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

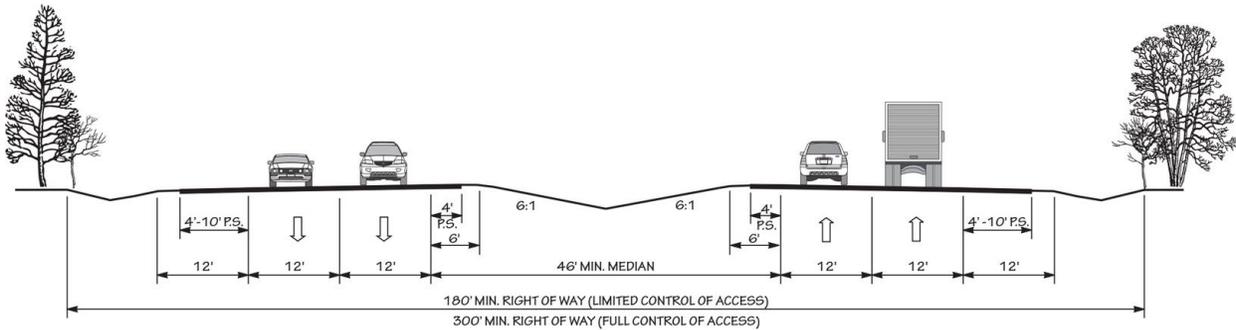
- 2 Anadromous Fish Spawning Area Feature(s)
- 21 Benthic Habitat Feature(s)
- 44 Coastal Region Evaluation Of Wetland Significance Feature(s)
- 15 Flood Hazard Area Feature(s)
- 2 Gameland Feature(s)
- 1 High Quality And Outstanding Resource Water Feature(s)
- 1 Impaired Waters Line Feature(s)
- 5 Landscape Habitat Indicator Guild Feature(s)
- 3 Major River Feature(s)
- 7 Managed Area Feature(s)
- 16 Natural Heritage Element Occurrence Feature(s)
- 1 Natural Heritage Natural Area Feature(s)
- 38 Wetland Feature(s)
- 24 River And Stream Feature(s)
- 7 Lake And Pond Feature(s)

Typical Section Options:

TYPICAL SECTION No. 4A

None

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



POSTED SPEED 45-70 MPH

- 3 Protected Area Feature(s)
- 9 Quality Monitored River And Stream Feature(s)
- 2 Target Local Watershed Feature(s)

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

- Between 0% and 25% identify as 65+
- Between 0% and 25% identify as African American
- Between 0% and 5% identify as Asian
- Between 5% and 15% identify as Hispanic and Latino
- 0% 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
- 0% 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 5% and 10% identify as Two of More Races
- Between 15% and 25% identify as Below Poverty Line
- Between 0% and 15% identify as Households with No Car