

Atlantic Beach Bridge Improvements

Atlantic Beach Bridge

Local ID: CART40028-H

Purpose: Congestion

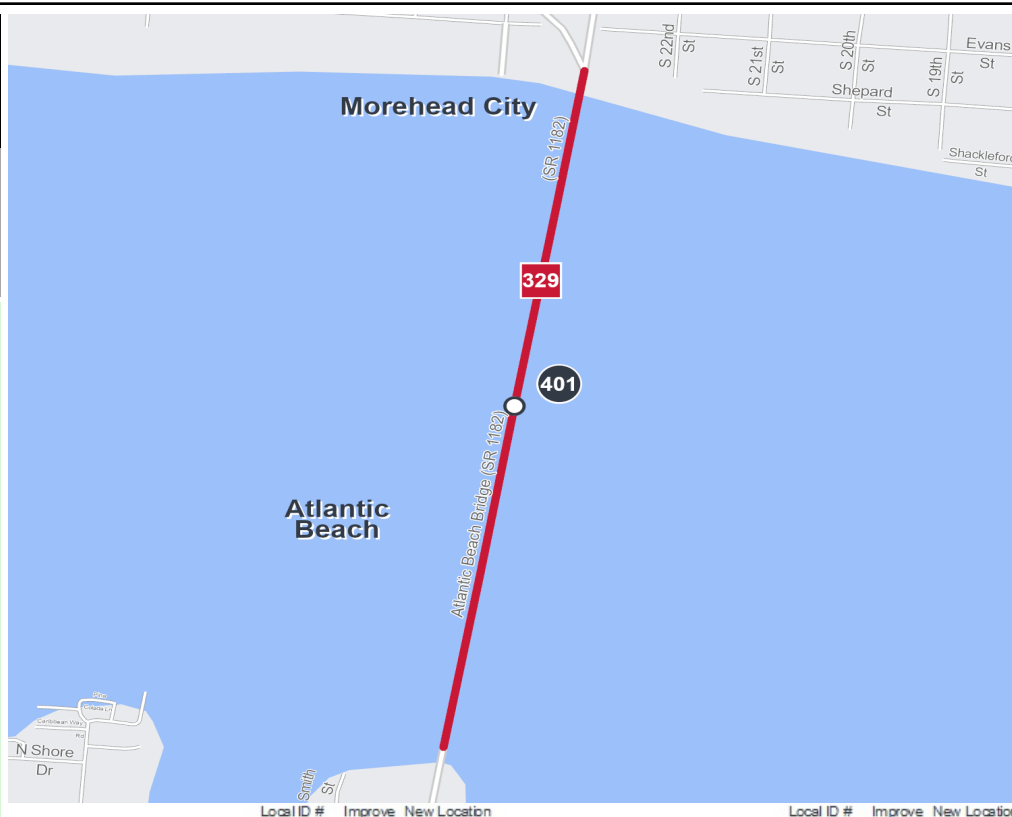
Improvement: Improve Existing

Identified Need

Atlantic Beach Bridge is currently near capacity and projected to be near capacity in 2050. Improvements are needed to accommodate current and projected traffic volumes such that the LOS D can be achieved. The multiuse additions will help provide a route for citizens to walk on.

Recommendation

The recommendation is to widen the Atlantic Beach Bridge to a 4-lane boulevard cross section as well as add sidewalks with an underpass on Evans St. The steering committee suggested to model this bridge after the Surf City Bridge using a jersey barrier for bike and pedes



Proposal At A Glance

Highway Class	Congestion & Mobility
Facility Type	Boulevard
Typical Section	04 K
Section Options	-
Length (miles)	0.73
Existing ROW (feet)	100-200
Safety Risk Score	44

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	Boulevard
Travel Lanes	4	4	4
Volume (vpd)	21500	34200	22700
Capacity (vpd)	26700	26700	38100

Capacity Data: Year

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

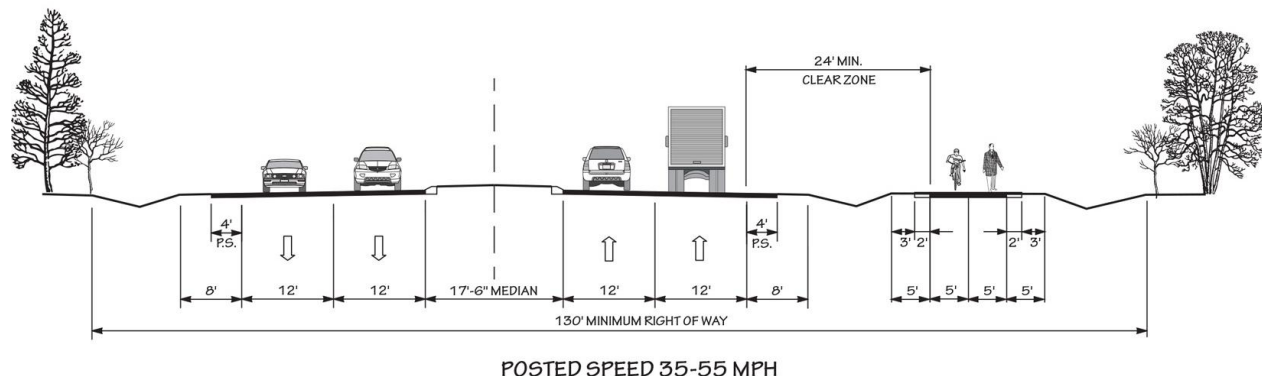


Typical Section Options:

None

TYPICAL SECTION No. 4K

4 LANE DIVIDED (17'-6" RAISED MEDIAN)
WITH PAVED SHOULDERS AND SIDEPATH

**Project History/Linkage to Other Plans****Project History**

The Atlantic Beach Bridge along with the Emerald Isle Bridge and a potential third bridge were studied and discussed extensively during the steering committee meetings.

It is important to note that in this Comprehensive Transportation Plan (CTP), everything is at a high level. The plan looks at the longterm needs of the community. The cross sections and recommendations here are not set in stone - they seek to address the traffic deficiencies and needs of the area so in the future it is easier to apply for funding and be studied in more detail.

The Atlantic Beach Bridge is projected to be near capacity in 2050, and the Emerald Isle Bridge is projected to be over capacity in 2050. A solution is needed for these areas connecting the mainland to the beach island area.

After many CTP steering committee meetings, one on one meetings with the towns of Carteret County, and model runs, the team and communities determined that the best CTP recommendation would be a 4-lane boulevard upgrade for the Atlantic Beach Bridge, a 4-lane boulevard upgrade for the Emerald Isle Bridge, and a 2-lane potential third bridge. This CTP is meant to address the needs of the area, and an exact location of this third bridge is not determined at this point in time.

These three recommendations provide a solution for the traffic concerns for Carteret County, and give an opportunity to apply for different kinds of funding and further study in the future.

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. The Town of Atlantic Beach Bike and Ped Plan also includes a multi-use path here.

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 18 comments as pins during the online survey. The main concerns were congestion and bike and pedestrian needs.

Other Information**Linkage to Other Plans**

There is currently a project listed here on the State Transportation Improvement Program (STIP) website (B-5938). This project is listed as 'under construction' and includes concrete deck overlay, joint replacement, concrete repairs on the substructure and superstructure, cathodic protection of prestressed concrete items, fender system, lighting, and other items of work. Project CART40004-H is in close proximity to this project, and was submitted in SPOT (H191117).

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

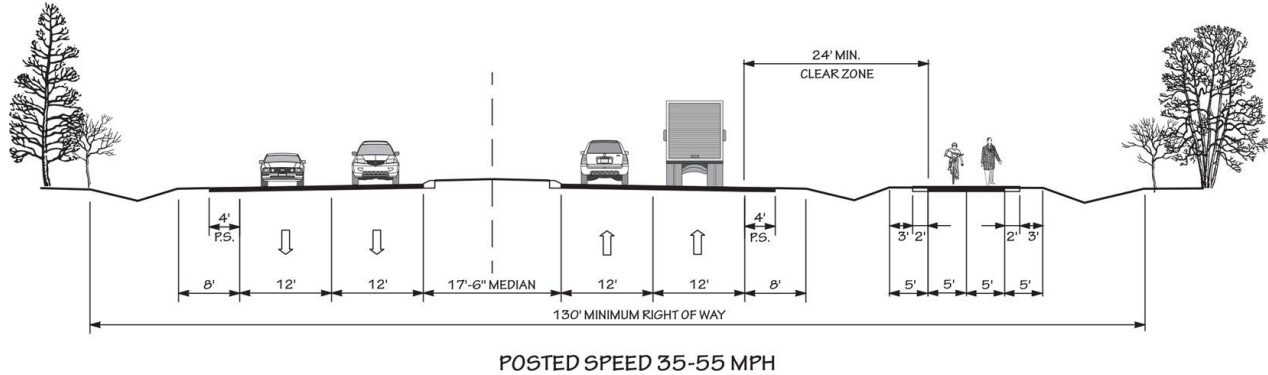
- 1 Beach And Waterfront Access Feature(s)

Typical Section Options:

None

TYPICAL SECTION No. 4K

4 LANE DIVIDED (17'-6" RAISED MEDIAN)
WITH PAVED SHOULDERS AND SIDEPATH



- 4 Benthic Habitat Feature(s)
- 6 Flood Hazard Area Feature(s)
- 1 High Quality And Outstanding Resource Water Feature(s)
- 3 Impaired Waters Line Feature(s)
- 2 Impaired Waters Polygon Feature(s)
- 2 Major River Feature(s)
- 1 Managed Area Feature(s)
- 3 Natural Heritage Element Occurrence Feature(s)
- 3 Wetland Feature(s)
- 2 River And Stream Feature(s)
- 1 Protected Area Feature(s)
- 3 Quality Monitored River And Stream Feature(s)
- 5 Submerged Aquatic Vegetation Feature(s)
- 1 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 0% and 5% identify as Asian
- Between 1% and 5% identify as Hispanic and Latino
- Between 0% and 5% 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

- 0% identify as Over 18 with Limited English Proficiency (LEP) - Spanish
- Between 5% and 15% identify as Native American
- Between 1% and 5% 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