Triangle Bikeway CTP Amendment

Triangle West Transportation Planning Organization

(formerly Durham-Chapel Hill-Carrboro Metropolitan Planning Organization)

Comprehensive Transportation Plan | Adopted [DATE]

Amendment #_ | Triangle Bikeway

The Triangle West Transportation Planning Organization (Triangle West TPO) hereby amends the Comprehensive Transportation Plan (CTP) to add the Triangle Bikeway alignment and replace or modify several bicycle and pedestrian projects along the I-40 and NC 54 corridors within Research Triangle Park (RTP), Durham, and Chapel Hill.

This document presents the reasons for the amendment and includes a table that reflects the proposed amendment for specific adopted CTP projects. Interactive maps of the adopted Comprehensive Transportation Plan are available on the Triangle West TPO's website.

Outreach and Engagement:

Schedule – The Triangle West TPO's Public Participation Plan requires major amendments to the CTP be released for a minimum of a 45-day public comment period. The tentative schedule for the Amendment #_ follows:

- September 22, 2026 | Triangle West TPO Board released Amendment #_ for public comment
- October 27, 2026 | Public Hearing at Triangle West TPO Board Meeting
- November 3, 2026 | Triangle West TPO Technical Committee makes recommendation to Triangle West TPO Board
- November 9, 2026 | The public comment period ends
- November 17, 2026 | Triangle West TPO Board vote to approve or not approve the CTP amendment
- [DATE]* | NCDOT Board to vote to adopt or not adopt the CTP amendment

*Date to be determined by NCDOT Staff

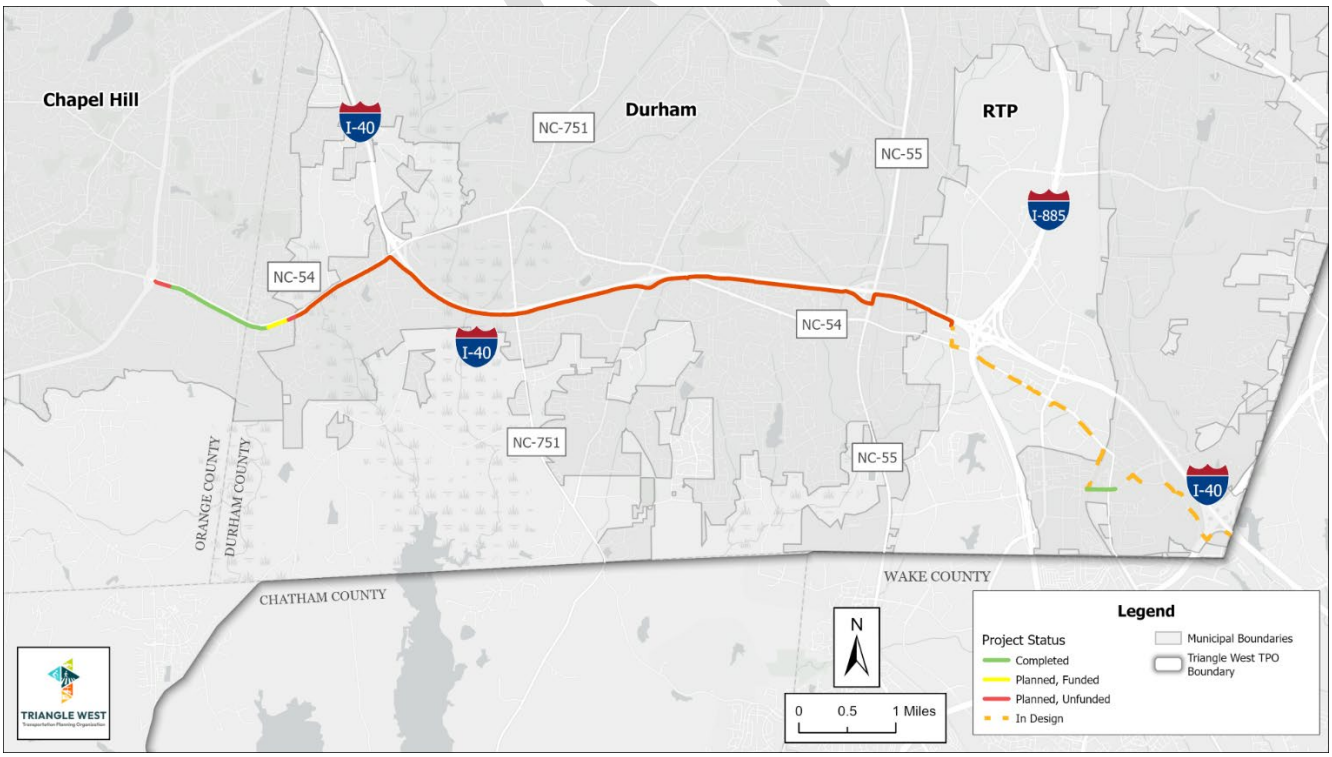
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Notification – The following notifications were provided during the Outreach and Engagement efforts relating to the Amendment:

- Public Notice Announcement
- Email Notifications
- Social Media Posting
- Website Posting

Triangle Bikeway

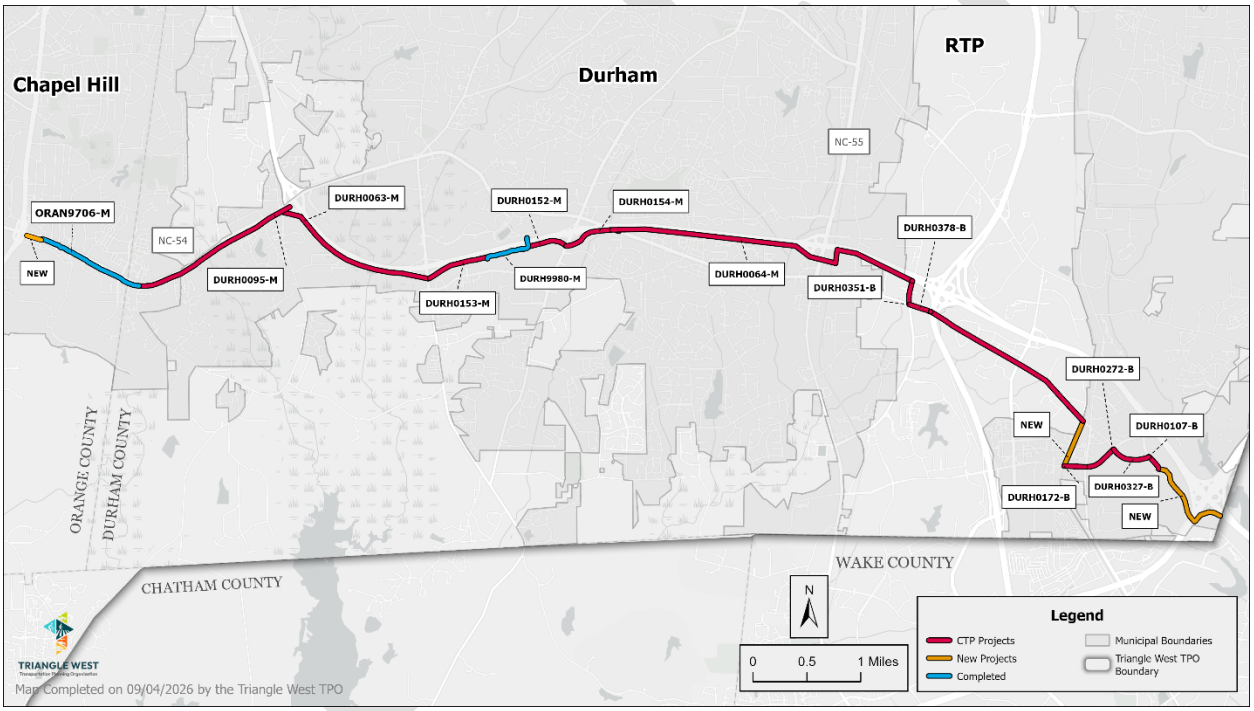
The Triangle Bikeway is an approximate 23-mile multi-use path connecting Raleigh, Cary, Morrisville, RTP, the City of Durham, and Chapel Hill. The Triangle Bikeway East segment is designed to connect Raleigh to RTP. The *Triangle Bikeway East Design Project* (Triangle Bikeway East) is currently underway and is proceeded by the *Triangle Bikeway Feasibility and Implementation Study* (Study), that was adopted in 2022 by Triangle West TPO and Capital Area Metropolitan Planning Organization. The Triangle Bikeway West is proposed to connect from 15-501 in Chapel Hill to the Wake County line in RTP, shown in Map 1.



Map 1

Triangle Bikeway Amendment Justification:

Amendment #_ proposes to add the Triangle Bikeway West alignment of a multi-use path as a single project in the Comprehensive Transportation Plan , thus needing to replace and/or modify several 2017 CTP recommendations, as reflected in Table 1 and Map 2, to not duplicate bicycle and/or pedestrian facilities in the Triangle Bikeway corridor. The Triangle Bikeway is described as a multi-use path suitable for users of all ages and abilities both on foot and by bike. This path will provide the region an active transportation path (bicycle and pedestrian facility) connecting "major employment centers, local neighborhoods, recreational areas, commercial centers, transit networks, and existing bicycle and pedestrian facilities" (taken from the 2022 Study). The multi-use path will be a paved trail separated from vehicular traffic, used by both pedestrians and cyclists and designed to link Chapel Hill, Durham, Raleigh, Cary, Morrisville, and Research Triangle Park.



CTP ID	CTP Mode	Facility Route	Section	Jurisdiction	Amendment
NEW	Multi-Use	Triangle Bikeway West	15-501 to Hamilton Road	Chapel Hill	Include as segment of Triangle Bikeway
(no CTP ID # nor recommendation, facility is existing)	Multi-Use	NC 54 side path (South)	Hamilton Rd to Barbee Chapel Rd	Chapel Hill	Remain as in CTP, built, but Triangle

					Bikeway follows this side path
DURH0095-M	Multi-Use	NC 54 Greenway (south of NC 54)	Meadowmont Ln to New Hope Creek Trail	Chapel Hill, Durham County	Replace with Triangle Bikeway
DURH0063-M	Multi-Use	I-40 Multiuse Path	NC 751 to Durham-Orange Light Rail Transit trail	Durham County	Replace with Triangle Bikeway from NC 54 and I-40 Interchange to NC 751
DURH0153-M	Multi-Use	Southpoint Connector	Spur to NC 751	Durham County	Replace with Triangle Bikeway
(no CTP ID # nor recommendation, facility is existing)	Multi-Use	American Tobacco Trail (ATT)	W Morehead Ave to Chatham County	Durham County	Remain as is in CTP, built, but Triangle Bikeway follows part of ATT connecting Southpoint to ATT north of I-40
DURH0152-M	Multi-Use	Southpoint Connector	Fayetteville Rd to I-40 pedestrian bridge	Durham County	Replace with Triangle Bikeway
DURH0154-M	Multi-Use	Southpoint Connector	NC 54 to Fayetteville Rd	Durham County	Replace with Triangle Bikeway
DURH0064-M	Multi-Use	I-40 Multiuse Path	Page Rd to SouthPointe	Durham County	Replace with Triangle Bikeway, but align along NC 54 east of TW Alexander Drive until rail line, NS H-line

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					(NCRR) in RTP
DURH0351-B	Bicycle	TW Alexander	NC 55 to E Cornwallis Rd	Durham County	Replace with Triangle Bikeway from I-40 to NC 54
DURH0378-B	Bicycle	W Hwy 54	Orange County Line to S Miami Blvd	Durham County	Remove east of TW Alexander Drive
NEW	Multi-Use	Triangle Bikeway West	NC 54 to Hopson Rd (along Norfolk Southern railroad)	Durham, Durham County	Include as segment of Triangle Bikeway along NS H-Line (NCRR)
DURH0172-B	Bicycle	Hopson Rd	Triangle Expressway to S Miami Blvd	Durham County	Replace with Triangle Bikeway from NS H-line (NCRR) to Page Rd and S Miami Blvd Intersection
DURH0272-B	Bicycle	Page Rd	Miami Blvd to US 70	Durham County	Replace with Triangle Bikeway from S Miami Blvd to Slater Rd
DURH0327-B	Bicycle	Slater Rd	Miami Blvd to Emperor Blvd	Durham County	Replace with Triangle Bikeway from Page Rd to Emperor Blvd
DURH0107-B	Bicycle	Emperor Blvd	Miami Blvd to Page Rd	Durham County	Replace with Triangle Bikeway from Slater Rd (west)

					intersection to Slater Rd (east) intersection
NEW	Multi-Use	Slater Rd	Emperor Blvd to Wake County Line	Durham County	Include as segment of Triangle Bikeway along Slater Rd from Emperor Blvd to Wake County Line

Multi-use paths such as the one proposed by this amendment provide several benefits compared to standard bike lanes, regarding safety and accessibility. The separation inherent to multi-use paths reduces the risks associated with drivers misjudging distance, debris along the road edge, and other common hazards for cyclists in a bike lane.

As proposed, the Triangle Bikeway's cross sections separate pedestrians from cyclists within the shared corridor, when feasible, rather than simply separating all non-motorized traffic from cars as a single mixed group. See the preferred typical section in Figure 1 from the 2022 Study (page 102). In the Durham and RTP segments specifically, the bikeway is set back from the road, reducing noise and improving comfort for users.

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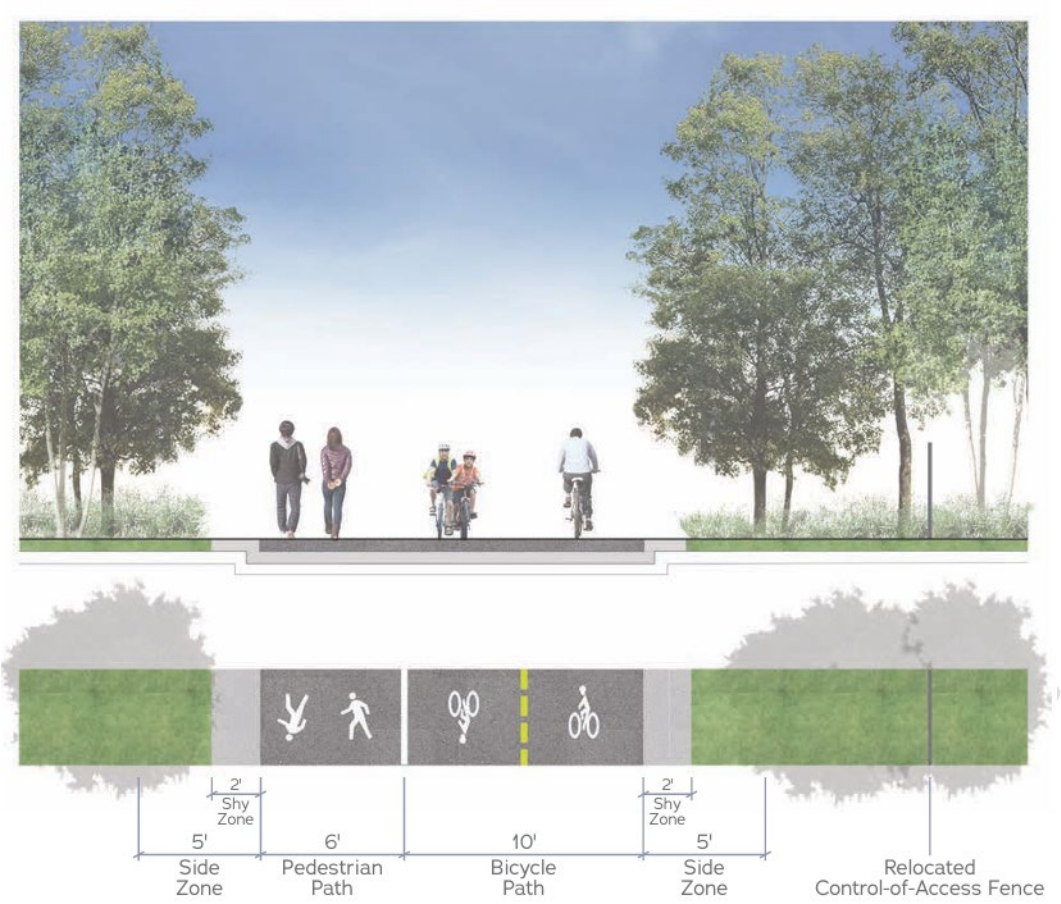


Figure 1

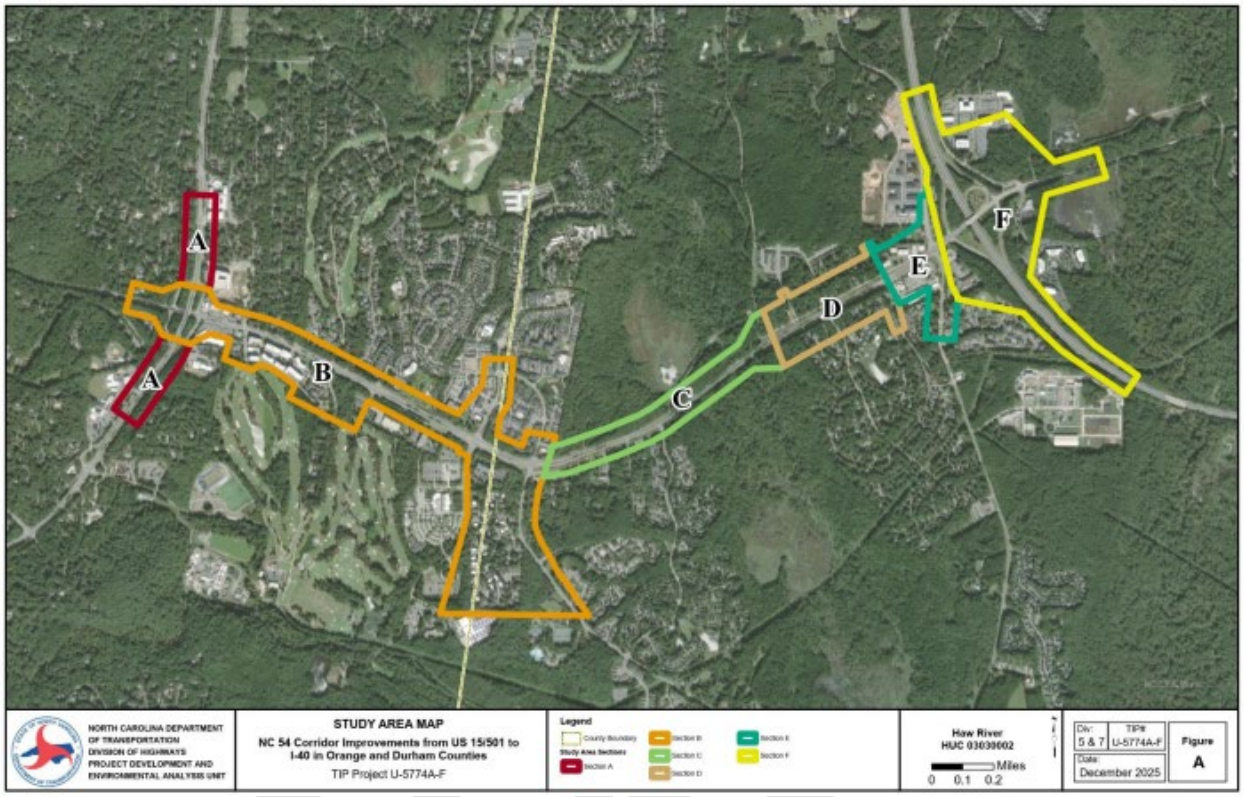
Triangle Bikeway Feasibility and Implementation Study

The *Triangle Bikeway Feasibility and Implementation Study* (Study) served as a feasibility study to analyze the segment from the Hub in RTP to the US 15-501 and NC 54 interchange in Chapel Hill. The study also included design recommendations for the NC 54 multi-use path proposed as a part of the NCDOT STIP U-5774. Goals for the Study included, but were not limited to:

- Transportation Choice
- Connect to Jobs
- Safety
- Regional Collaboration
- Feasibility

A portion of Triangle Bikeway is within the NCDOT STIP U-5774 study area, shown in Map 3. This amendment ensures consistency amongst the Comprehensive Transportation, STIP, and the Triangle Bikeway Feasibility and Implementation Study and included the Triangle

Bikeway multi-use path into the NC 54 – Proposed Improvements from US 15-501 (Fordham Boulevard to NC55).



Map 2

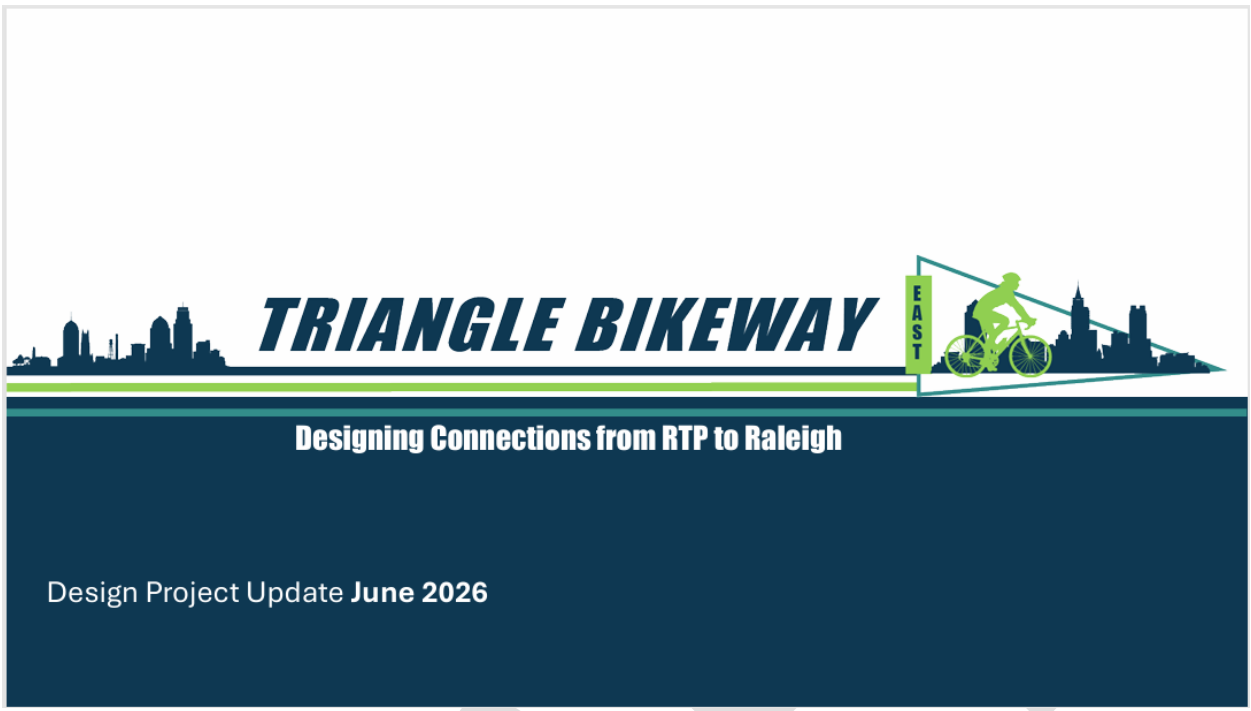
The feasibility study included an analysis of the segment from the Hub in Research Triangle Park to the US 15-501 and NC 54 interchange in Chapel Hill. The analysis provided the typical section of the bikeway, at-grade and grade-separated crossing layouts, conceptual structure type recommendations, conceptual right-of-way requirements, and rough impacts to streams, wetlands, and floodplains. The study also included design recommendations for the NC 54 multi-use path proposed as part of the NCDOT STIP U-5774 project and recommendations for connections to transit, existing and proposed bicycle and pedestrian facilities, neighborhoods and other destinations. The extent of the Triangle Bikeway was first depicted in the Triangle Bikeway Feasibility and Implementation Study.



Triangle Bikeway East Design Project

The Triangle Bikeway East Design Project is to determine the final alignment of four areas between Durham and Raleigh – Wade Avenue Corridor, crossing of I-40 at Lake Crabtree, RTP, and the NC 54 Corridor. The Triangle Bikeway West is reflected as a future phase within the Triangle Bikeway East Design Project and is based upon the initial Triangle Bikeway Feasibility and Implementation Study.

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TRIANGLE BIKEWAY
EAST
Designing Connections from RTP to Raleigh
Design Project Update **June 2026**

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