

GoTriangle Board of Trustees January 24, 2024 12:00 pm-2:30 pm Eastern Time

The GoTriangle Board of Trustees has resumed in-person meetings. The public is encouraged to use the remote option.

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1. Call to Order and Adoption of Agenda

(1 minute Brenda Howerton)

ACTION REQUESTED: Adopt agenda with any changes requested.

II. Public Comment

(Brenda Howerton)

The public comment period is held to give citizens an opportunity to speak on any item. The session is no more than thirty minutes long and speakers are limited to no more than three minutes each. Speakers are required to sign up in advance with the Clerk to the Board at mdawson@gotriangle.org.

III. Consent Agenda

(1 minute Brenda Howerton)

Items listed on the consent agenda are considered as a single motion. At the request of any Board member, or member of the public, items may be removed from the consent agenda and acted on by a separate motion. Items pulled from the consent agenda will be placed at the beginning of the general business agenda for discussion and action. Any Board member wishing to remove an item from the consent agenda should advise staff in advance.

ACTION REQUESTED: Approve consent agenda.

- A. Regular Session Minutes | December 20, 2023
- B. GoTriangle Short Range Transit Plan FY2024 FY2028

OPERATIONS COMMITTEE RECOMMENDATION: Adopt the GoTriangle Short Range Transit Plan.

GoTriangle SRTP FINAL 231226

C. Wake Transit ADA Policy and Service Guidelines and Performance Measures

ADMINISTRATION & GOVERNANCE COMMITTEE RECOMMENDATION: Adopt the Wake Transit ADA Policy and Service Guidelines and Performance Measures.

ADA Policy

Service Guidelines and Performance Measures

IV. Presentations

A. Strategic Plan Information

(25 minutes Meg Scully)

Matt Webb and John Lewis, TransPro

B. Paratransit Service Overview

(15 minutes Tammy Romain)

V. General Business Agenda

Items listed on the general business agenda are for discussion and possible action. Such designation means that the Board intends to discuss the general subject area of that agenda item before making any motion concerning that item.

A. Items Removed from the Consent Agenda

(1 minute Brenda Howerton)

ACTION REQUESTED: Discuss and take action on any items removed from the consent agenda.

B. Financial Review RFP

(10 minutes)

ACTION REQUESTED: Authorize the President/CEO to award a contract to Deloitte Consulting for Financial Process and Enhancement Services for FY2024, with a maximum dollar amount of \$493,756 and execute the contract consistent with those terms and adopt budget ordinance amendment 2024 0001.

Budget change impact

Ordinance 2024 0001

C. Operations Committee Report

(5 minutes Michael Parker)

D. Administration & Governance Committee Report

(5 minutes Mary-Ann Baldwin)

E. New Business

VI. Other Business

A. President & CEO's Report

(5 minutes Charles Lattuca)

Contracts

New Hires & Promotions

1. Operations Update (5 minutes Vinson Hines)

2. Capital Projects Status Report

(5 minutes Katharine Eggleston)

3. Communications Update (5 minutes Eric Curry)

B. General Counsel's Report

(5 minutes Byron Smith)

C. Chair's Report

(5 minutes Brenda Howerton)

- D. Board Member Reports
 - 1. CAMPO Executive Board Representative (5 minutes Patrick Hannah)
 - 2. Regional Transportation Alliance (RTA) Rep. (5 minutes Brenda Howerton)
 - 3. **DCHC MPO Board Representative** (5 minutes Michael Parker)

VII. Adjournment

(Brenda Howerton)



BOARD OF TRUSTEES MEETING MINUTES

4600 Emperor Boulevard Suite 100 Durham, NC 27703

Wednesday, December 20, 2023

12:00 p.m.

GoTriangle Board Room

Board members present | Susan Evans, Patrick Hannah, Brenda Howerton, Vivian Jones, Sally Greene, Leonardo Williams [arr. 1:07 p.m.]

Board members attending remotely | Mary-Ann Baldwin [arr. 12:02 p.m.], Jennifer Robinson [arr. 12:01 p.m.]

Board members absent | Corey Branch, Michael Fox, Valerie Jordan, Michael Parker

Chair Brenda Howerton officially called the meeting to order at 12:00 p.m. A quorum was present.

I. Adoption of Agenda

Action: The agenda was adopted by consensus.

II. Oaths of Office

Board treasurer and Wake Forest Mayor Vivian Jones administered the oath of office to Susan Evans, representative for Wake County.

III. Public Comment

No comments.

IV. Consent Agenda

Action: A motion was made by Jones and seconded by Hannah to approve the consent agenda. Upon vote, the motion was carried unanimously.

The following consent agenda items were approved:

- November 15, 2023 | Regular Session Minutes
- Adopted Resolution 2023 0003*approving the GoTriangle Agency Safety Plan (Revision 1)*
- Authorized the President/CEO to execute a contract for strategic planning services with TransPro Consulting, LLC for an amount not to exceed \$284,220

V. Presentations

A. FY2023 Audit Report

Saundra Freeman first announced that GoTriangle had received its 29th Certificate of Achievement for Excellence in Financing Reporting for FY2022 from the Government Finance Officers Association. She then introduced Scott Anderson, CPA, Cherry Bekaert Director. His presentation is attached and hereby made a part of these minutes.

- GoTriangle was issued an unmodified opinion on its financial statements.
- No corrected or uncorrected misstatements identified.

^{*}These items are attached and hereby made a part of these minutes.

- No inappropriate accounting policies or practices noted.
- No issues noted in related party relationships and transactions.
- No significant unusual transactions.
- No circumstances or relationships that create threats to auditor independence.
- No significant difficulties dealing with management in performing and completing the audit.
- No disagreements with management related to the financial statements.
- No consultations with management on difficult or contentious matters.
- Management representation letter dated November 30, 2023.
- No management consultations with other outside accountants.
- Normal professional discussions with management, no conditions to retention.
- No fraud, illegal acts or violations of laws and regulations noted.
- No events or conditions noted that indicate substantial doubt about GoTriangle's ability to continue.

Anderson clarified that no opinion is expressed on internal controls; however, there is a walkthrough of internal controls for the purpose of designing audit procedures. Generally for government audits Cherry Bekaert will test controls over cash disbursements, cash receipts and payroll in order to determine whether or not ending balances can be relied upon.

VI. General Business Agenda

A. Items Removed from Consent Agenda

None.

B. Planning & Legislative Committee Report

Vivian Jones reported that the committee received a presentation on the onboard customer survey results and the short range transit plan, which will be coming to the board for approval next month.

VII. Other Business

A. President and CEO's Report

A list of contracts approved by the president and CEO is attached and hereby made a part of these minutes.

Highlights:

- The board will receive a presentation on GoTriangle's procurement process in January.
- NCDOT has received a \$1 billion federal grant for the high-speed S-line project.
- GoTriangle will present to the CAMPO executive board in January.
- The sale of property to the Town of Cary is complete. The agreement includes a promise of parking spaces for future rail service.
- Two board members will attend the updated board member orientation in January.
- Board members are encouraged to attend the RTA Annual Meeting January 26.

Meeting Minutes Page 2

- Shared information sheets, "Public Transportation Sales Tax and County Transit Plans."
- CRX and DRX will be suspended December 25-29.

1. Operations Update

The monthly report and presentation are attached and hereby made a part of these minutes.

Vinson Hines shared the following statistics from September:

- Average weekday ridership: 6,327 up 9.7% from 2022; up 2.9% from 2019.
- Average Saturday ridership: 3,671, up 33.2% from 2022; up 133% from 2019.
- Average Sunday ridership: 2,227, up 12.3% from 2022; up 103% from 2019.
- Average weekday boardings paratransit: 149, up 20.2% from 2022; down 1.3% from 2019.
- Average Saturday boardings paratransit: 52, up 33.3% from 2022; up 73.3% from 2019.
- Average Sunday boardings paratransit: 26, up 85.7% from 2022; up 4% from 2019.
- Operators: 71 fulltime, 14 part-time, 10 trainees.
- Police responded to 0 incident in November and EMS, 1.

Hines reported that the next training class is scheduled for January. The CRX and DRX to be suspended December 25-29 due to an operator shortage and reduced holiday demand. The suspension matches the schedule of GoTriangle's university partners. He stated that staff returned to the bus operations and maintenance facility on November 28, following the accidental fire in the parts and inventory room on October 4. He added that there were no injuries. Hines also reported that 47 of 77 legacy fareboxes are operational.

2. Capital Projects Status Report

Katharine Eggleston's presentation is attached and hereby made a part of these minutes.

RUS Bus Update

- Authorization of \$11 million for early private overbuild activities was provided to the developer from the Wake Transit Plan.
- USDOT/FTA gave preliminary approval to the grant agreement amendment related to scope changes with no reduction to grant amount.
- The project is on budget at \$37.9 million with \$2.1 million in contingency.
- Phase 2 construction DBE goal is 13.78%.
- Test piles are complete and no unanticipated conditions were identified.

Eggleston added that the joint MPO rail subcommittee will lead an additional study effort in FY2025 to evaluate in more detail an incremental approach to passenger rail. This will included evaluating opportunities for projects to improve safety, capacity and potential service in addition to Amtrak's Piedmont service.

Williams arrived.

Meeting Minutes Page 3

D. General Counsel's Report

No report.

Board treasurer and Wake Forest Mayor Vivian Jones administered the oath of office to Leonardo Williams, representative for the City of Durham.

E. Chair's Report

Chair Howerton reported that there had been no confirmation of the Town of Chapel Hill appointment to GoTriangle's board. She said should Michael Parker continue in that role, he will represent the board on the DCHC MPO, and she would be the alternate. Patrick Hannah will be the board's representative on the CAMPO Executive Board. She stated that she will serve as the RTA representative. Committees will meet on the 1st Wednesday afternoon of the month in 2024.

VII. Adjournment

Action: Chair Howerton adjourned the meeting at 1:23 p.m.

Prepared by:	
Michelle C. Dawson, CMC	
Clerk to the Board of Trustees	

Meeting Minutes Page 4

AGENDA ACTION ITEM



Connecting all points of the Triangle

Submitted by: Jay Heikes, Planning and Capital Development

Meeting date: January 24, 2024

SUBJECT: GoTriangle Short Range Transit Plan FY2024 – FY2028

Strategic Objective or Initiative Supported

1.2 Pursue service improvements and expansion opportunities

Staff Recommendation

Adopt the GoTriangle Short Range Transit Plan.

Item Summary

The GoTriangle Short Range Transit Plan (SRTP) provides implementation details for bus service changes in fiscal years 2024 through 2028. As a part of its development, the SRTP evaluated and defined service adjustments and expansion concepts that were identified and funded in the Wake Bus Plan, Durham Transit Plan, and Orange Transit Plan. The SRTP also includes post-FY2028 priorities for new and improved service as well as service performance guidelines.

Reflecting the vision and goals of the county transit plans, the Wake Bus Plan and recent ridership trends, the goals of the SRTP are to:

- Ensure the provision of reliable service
- Increase service frequency and off-peak service to address demand and increase access
- Broaden the trip types served by GoTriangle by streamlining and reallocating peak service

This plan builds on the extensive analysis, stakeholder coordination and public engagement completed as a part of the Wake Bus Plan and expands that work to focus on GoTriangle service in Durham and Orange counties. The study team has continued monthly stakeholder coordination meetings, conducted public engagement and facilitated collaboration among GoTriangle staff, including Transit Operators. GoTriangle staff have also provided routine updates to the Planning and Legislative Committee as well as the Operations and Finance Committee on SRTP progress.

The SRTP expands GoTriangle's all-day service and balances its peak-only service to address travel trends and improve Operator schedules to support work/life balance. Specifically the plan will:

- Create two all-day frequent routes with buses operating every 15 minutes on weekdays
- Extend evening service on five routes, and increase early evening frequency on four routes
- Introduce new weekend service on three routes
- Add midday service and early evening service to four routes that are peak-only today
- Streamline four peak-only routes to better connect riders to regional destinations

Financial Impact

None. Short Range Transit Plan recommendations will be incorporated into annual work programs for the county transit plans for Wake, Durham and Orange Counties.

Attachments

Final Short Range Transit Plan

January Operations Committee Question Responses

How much of the changes are an addition of new service compared to a reallocation of existing service?

Between FY2024 and FY2028, the Short Range Transit Plan includes approximately 70,000 new annual hours of revenue service. This represents a 50% increase over the approximately 140,000 revenue hours budgeted in FY2024. Additionally, the Short Range Transit Plan reallocates 34,000 annual revenue hours from peak-only service on Routes 105, 301, 405, 805, DRX, and NRX to support expanded all-day service on Routes 100X, 400, 805 and DRX.

What is the distribution of survey responses among routes? Are there particular routes with a higher concentration of negative responses?

412 responses were received specific to GoTriangle routes during the final phase of public engagement for the Short Range Transit Plan. Overall, 263 responses (64%) to the proposed changes were positive, 45 responses (11%) were negative, and 104 responses (25%) were neutral. Responses received on routes 400, 700, 800, and 805 were on average more positive (67-70%) than responses as a whole (64%).

Routes 800, 805, and CRX had the highest percentage of negative responses ranging from 16-20%, which was higher than the overall average of 11%; however, each of these routes had 2.5-4 times the number of positive responses to negative responses. The most common concern was service reliability, which will be addressed through implementation of the Short Range Transit Plan. Responses to concerns received for each route are included on page 11 of the Short Range Transit Plan.



Table of Contents

	Page
Overview	2
GoTriangle Overview	2
The Wake Transit Plan	2
The Durham Transit Plan	
The Orange Transit Plan	4
Existing Conditions	6
Existing Service	6
The Demand for Transit	
Ridership and Performance	8
Public Engagement Key Findings	
Recommended Projects	13
Introduction	
Operating Projects	13
Reading Project Sheets	15
Future Operating Projects	
Capital Projects	
Appendix A: Operating Statistics Tables	49

Overview

GOTRIANGLE OVERVIEW

GoTriangle is the regional transit provider in the Triangle Region, with service in Wake, Orange, and Durham Counties. GoTriangle provided over 1.5 million fixed route passenger trips annually in 2023¹.

The purpose of the GoTriangle SRTP is to:

- Guide service investments funded through the Wake, Durham, and Orange County Transit Plans.
- Reflect GoTriangle goals and objectives in the short-term and align with County Transit Plans objectives.
- Identify projects for programming and funding in operating and capital models.
- Engage members of the public to ensure their feedback and needs are included in transit investments.

This document brings together work completed for GoTriangle under the Wake Bus Plan and in Durham and Orange Counties after the completion of their respective Transit Plans, providing a schedule of investments for the next three years (Fiscal Years 2025 – 2028). Projects identified for investment between FY28 and FY30 are also referenced, but not detailed in the SRTP. Funding for identified projects is provided through multiple sources, including the GoTriangle general fund, the Wake Transit Plan, the Durham Transit Plan, and the Orange County Transit Plan.

In 2016, voters in Wake County approved a tax package to invest \$2.3 billion in public transit services over a 10-year period between 2017 and 2027. The combined investment strategy, branded as the Wake Transit Plan, reflects a vision for transit service development articulated through "Four Big Moves" which include:

- Connect Regionally: Create cross-county connections by developing a combination of regional bus and higher capacity transit investments.
- Connect All Wake County Communities: Connect all 12
 municipalities in Wake County plus the Research Triangle
 Park (RTP) and Raleigh-Durham International Airport (RDU).
 This investment will include a combination of regional and
 express bus routes.
- Frequent, Reliable Urban Mobility: Develop a frequent transit network in Wake County's urban core. The frequent transit network will include development of bus rapid transit services, plus high frequency bus services along major corridors in the County's most developed communities.
- Enhanced Access to Transit: Directs investment to existing fixed-route services to make service more convenient. The investments include expanding transit operating hours, such as providing more service on weekend days or increasing services on weeknights. Enhancing access to transit also increases the frequency of service on many routes and develops demand-response services in lower density areas.

THE WAKE TRANSIT PLAN

¹ Source: National Transit Database (NTD) GoTriangle 2021 Agency Profile.

In addition to the Four Big Moves, the Wake Transit Plan identifies a series of investment goals to guide transit network development:

- Prioritize investment in ridership-justified routes but continue investment in coverage routes.
- Build a transit network that ensures both residents and jobs in Wake County are accessible by public transportation.
- Balance investments in transit infrastructure and new services to create a network that will be robust and viable in the long term. The Wake Transit Plan emphasizes infrastructure investments that improve the speed and reliability of transit operations.
- Focus investment on projects that will enhance customer service and the user experience. The Wake Transit Plan will prioritize accessibility, comfort, security, reliability, cleanliness, courtesy, and communication.

The Governing Boards directing the implementation of the Wake Transit Plan (hereinafter Wake Transit Governing Boards) are accountable for governing and overseeing implementation of the Wake Transit Plan. The Wake Transit Governing Boards include the Governance ILA parties, which consists of the Capital Area Metropolitan Planning Organization (CAMPO) Executive Board and the GoTriangle Board of Trustees.

The Governance ILA parties established the Wake County Transit Planning Advisory Committee (TPAC), a staff-level advisory committee to coordinate planning and implementation of the Wake Transit Plan. The TPAC is comprised of regional and local governments, as well as the region's transit providers (GoTriangle, City of Raleigh, Town of Cary, and Wake County) and major institutions. The TPAC is overseeing development of the Wake Transit Multi-Year Bus Service Implementation Plan (MYBSIP), also referred to as the Wake Bus Plan. Hands-on management and direction are provided through the Core Technical Team (CTT), a subsidiary of the TPAC.

The Wake Bus Plan

The Wake Transit Plan requires transit stakeholders to prepare and update a multi-year operating plan every four years. The multi-year operating plan, referenced as the Wake Bus Plan, must identify, define, and prioritize Wake County transit investments in alignment with funding available through the Wake Transit Plan. The Wake Bus Plan is a collaborative effort that is developed with Wake transit operators, community stakeholders, and members of the public. The key outcome of the planning process is a financial implementation plan that programs and schedules operating and capital projects until Fiscal Year 2030. Short-Range Transit Plans (SRTP) are a sub-set of the Wake Bus Plan, focused on operating and capital projects scheduled for implementation between Fiscal Years 2025 through 2030. The SRTPs are also aligned with individual transit operators: this SRTP reflects the projects and investments identified for GoTriangle.

The SRTPs recognize the ongoing planning and implementation of high-capacity transit services in Wake County. The region is planning for Bus Rapid Transit (BRT) on Wake County's busiest urban corridors, with the Western Corridor BRT bringing a BRT connection between Cary and Raleigh. While not sponsored by GoTriangle, this service will play a vital role in the regional transit network and the operation and organization of GoTriangle transit services when BRT services begin revenue operation.

Each short-range transit plan (SRTP) provides background information about the transit provider, existing services, transit needs, and gaps in the service area. The plans build on analysis conducted as part of the overall Wake Bus Plan including a regional service assessment designed to enhance the understanding of current ridership trends and future travel markets, an analysis of existing service performance, input received through stakeholder and community engagement, and estimated financial costs. Reports and materials referenced in this plan are available under a separate cover.

THE DURHAM TRANSIT PLAN

In 2011, Durham County voters approved a half-cent sales tax to fund public transportation improvements in Durham and the Triangle region. The Durham County Transit Plan, adopted in 2013 and subsequently updated in 2017 and 2023, contains a program of transit services and projects to be funded by the dedicated local revenues for transit in Durham County through 2040. The Governing Boards directing the implementation of the Durham Transit Plan are accountable for governing and overseeing implementation of the Durham Transit Plan. The Durham Transit Governing Boards include the Governance ILA parties, which consists of the Durham Board of County Commissioners, The Durham-Chapel Hill-Carrboro (DCHC MPO) Executive Board, and the GoTriangle Board of Trustees. The 2013 Interlocal Agreement (ILA), updated in 2023 created a Staff Working Group that includes representatives from Durham County, the City of Durham, GoTriangle, and DCHC MPO to review the Plan and prepare updates as needed, at least every 4 years. The 2023 Plan Update provides over \$1 billion of local transit dedicated dollars to spend on transit improvements in Durham through 2040, guided by four main goals and objectives:

- Accessibility: Providing opportunities for all users to access transit.
- Connectivity: Providing a well-connected, multimodal transportation network.
- Convenience: Creating reliable transit options and providing dependable information to riders.
- Sustainability: Creating resilient infrastructure to meet the needs of existing and future populations.

The projects and priorities identified in the Durham Transit Plan guide the development of short-term planning efforts in Durham County, including the Short-Range Transit Plans for both GoTriangle and GoDurham. The Short Range Transit Plan provides detailed guidance to implement GoTriangle's projects and informs the annual work programs or budgets of the Durham Transit Plan, which are adopted jointly by the Durham Board of County Commissioners and the GoTriangle Board of Trustees.

THE ORANGE TRANSIT PLAN

In 2012, Orange County voters approved a half-cent sales tax to fund transit service and transit infrastructure improvements. These revenues go towards Orange County Public Transportation, Chapel Hill Transit, and GoTriangle. These funds are allocated based on the Orange County Transit Plan, first approved in 2012 and subsequently updated in 2017 and 2023. The Governing Boards directing the implementation of the Durham Transit Plan are accountable for governing and overseeing implementation of the Orange Transit Plan. The Orange Transit Governing Boards include the Governance ILA parties, which consists of the Orange Board of County Commissioners, The Durham-Chapel Hill-Carrboro (DCHC MPO) Executive Board, and the GoTriangle Board of Trustees.

The Orange County Transit Plan is guided by five core community values:

- Equity: Prioritize the transit needs of under-served for transitdependent residents.
- Environmental Sustainability: Prioritize accessible and convenient transit service in areas with existing or planned higher density development.
- Economic Prosperity: Prioritize increasing access to jobs and opportunities.
- Affordable & Attainable Quality of Life: Prioritize transit service connections to affordable housing, recreation, and arts and cultural opportunities.
- Transportation & Access for All: Prioritize transit service that increases transit access for the most people to the most places.

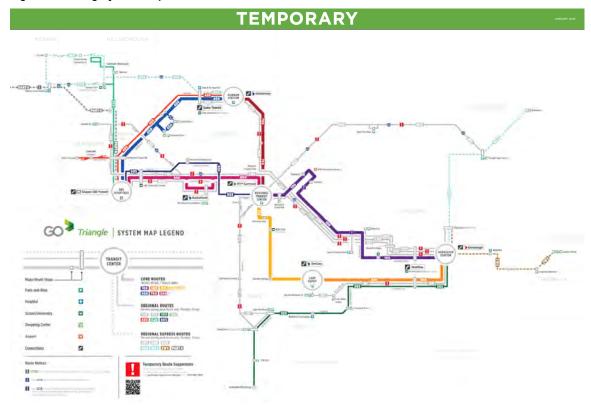
The projects and priorities identified in the Orange County Transit Plan and its updates inform the short-term planning efforts of transit agencies that operate in Orange County, including GoTriangle. The Short Range Transit Plan provides detailed guidance to implement GoTriangle's projects and informs the annual work programs or budgets of the Orange Transit Plan, which are adopted jointly by the Orange Board of County Commissioners and the GoTriangle Board of Trustees.

Existing Conditions

EXISTING SERVICE

GoTriangle provides service throughout the Triangle region, filling in service gaps outside central urban areas and connecting across counties and communities and serving regional destinations (Figure 1). GoTriangle service includes 13 regional routes that operate during peak periods and seven core routes with all-day and weekend service. GoTriangle's network also plays a critical role providing regional connections between local and university systems. Two GoTriangle-sponsored regional express routes are operated by GoRaleigh (WRX and ZWX) and one GoTriangle-sponsored regional route is operated by Chapel Hill Transit (Route 420). As of December 2023, four peak-only regional routes were suspended.

Figure 1 Existing System Map

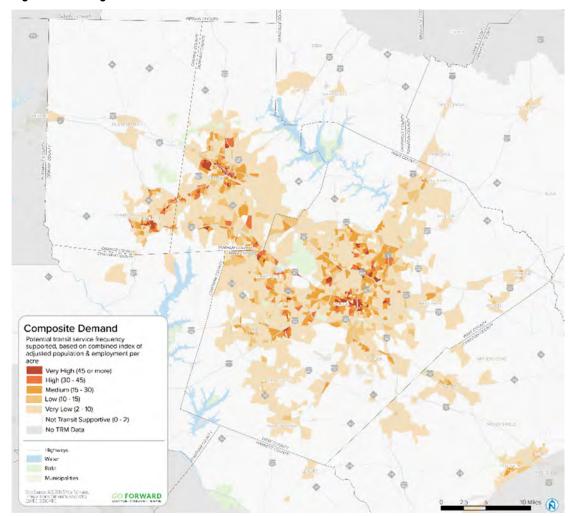


Source: GoTriangle

THE DEMAND FOR TRANSIT

A main factor in determining the demand and need for transit service is density: places where concentrations of people live and work. Generally, transit is accessible to people within walking distance of a bus stop, so the travel market-and the type and amount of service needed to serve this market—is dependent on the number of people who live, work, or visit within walking distance of a bus stop. GoTriangle serves areas across the spectrum of density and composite demand. Figure 2 shows the composite demand of the GoTriangle service area, which ties transit demand to service levels based on a combined index of adjusted population and employment per acre. This measure includes demographic factors linked to transit use, such as access to a personal vehicle, for example. GoTriangle serves many areas with high and very high composite demand, such as city and town centers, but also focuses on lower demand in surrounding towns. Service passes through areas that are not transit supportive to reach outlying very low and low demand areas and connect them to high demand nodes.

Figure 2 GoTriangle Service Area: Transit Demand



Sources: ACS 2019 5-Year Estimates, Triangle Region Onboard Survey (2019), CAMPO, DCHC MPO.

RIDERSHIP AND PERFORMANCE

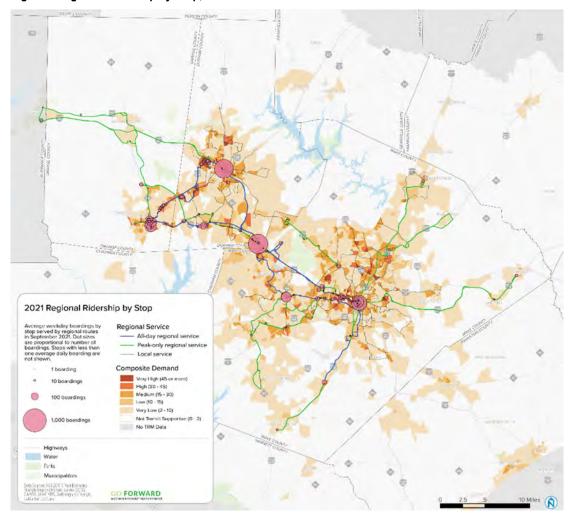
Ridership

Ridership on GoTriangle transit routes is in alignment with the underlying market, with the highest number of daily boardings at transfer locations, job centers, and in the downtowns of major municipalities (see Figure 3).

The following bus stops and transfer locations have the highest regional ridership (in order of highest average weekday boardings):

- The Regional Transit Center in Research Triangle Park
- Durham Station
- GoRaleigh Station / Moore Square
- Cary Depot (downtown Cary)
- UNC Hospitals (multiple stops)

Figure 3 Regional Ridership by Stop, 2021



Sources: CAMPO, GoRaleigh, GoTriangle, GoCary, GoDurham April 2021 ridership data adapted by Nelson\Nygaard Associates, ACS 2019 5-Year Estimates, Triangle Region Onboard Survey (2019), DCHC MPO.

Transit Route Performance Metrics

The Wake Bus Plan reviewed the performance of individual bus routes (see Regional Service Assessment reports for full analysis). The team used the metrics and standards recommended in the Wake Transit Plan Service Guidelines and Performance Measures. Metrics included cost per rider, riders per revenue trip², and on-time performance and vary by the service type. GoTriangle routes were organized into two route classifications: Regional Routes and Express Routes. Different standards are used for existing and new/substantially changed bus routes. The SRTP focused on boardings per revenue trip and operating cost per boarding as key indicators of performance.

Comparing data from April of each year, ridership on most of GoTriangle's regional routes softened at the beginning of the pandemic, leading to lower average weekday boardings per revenue trip (Figure 4). More recent data for FY2022 and FY2023, after the Regional Service Assessment was conducted, shows ridership is steadily increasing and in some cases, exceeding pre-pandemic levels. However, for Express routes, which were suspended in April 2020, ridership is still far below pre-pandemic levels (Figure 5).

Operating cost per boarding has steadily increased across all routes, particularly during the pandemic, reflecting increasing costs and lower ridership. In 2021 with reduced ridership, most regional routes (Figure 6) had operating costs of approximately \$10 - \$20 per boarding, though some had costs as high as \$30 per boarding. However, operating costs per boarding have improved for all regional routes with roughly half having lower costs per boarding than pre-pandemic levels by 2023. Express routes (Figure 7) have generally higher operating costs per boarding, and in 2021, it greatly increased to a range of \$10, to almost

\$60 per boarding. By 2023, Express costs per boarding have marginally improved from 2021, but remain far above pre-pandemic levels.

Figure 4 Weekday Boardings per Revenue Trip, Regional Routes (April)

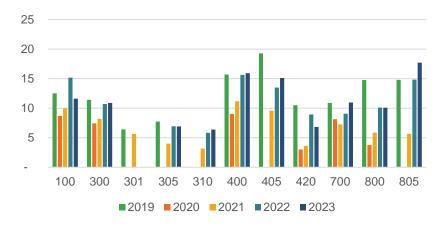
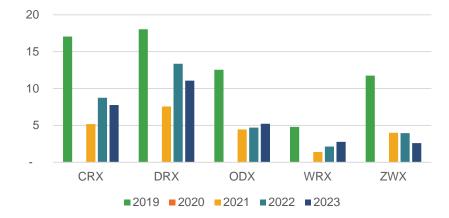


Figure 5 Weekday Boardings per Revenue Trip, Express Routes (April)



² The Wake Transit Plan's recommended Service Guidelines and Performance Standards uses riders per hour for frequent and local services and riders per trip for core regional and express services.

Figure 6 Operating Cost per Boarding, Regional Routes (April)

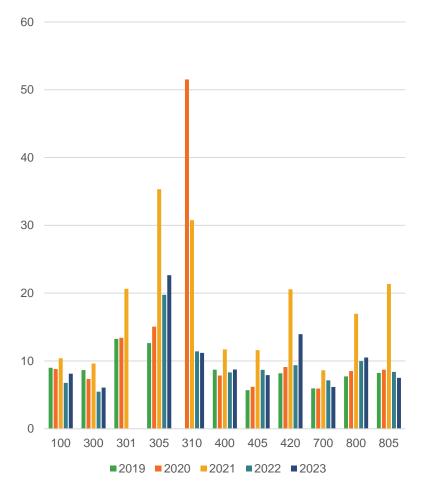
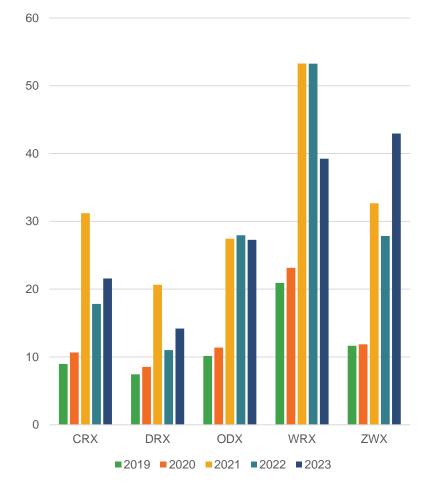


Figure 7 Operating Cost per Boarding, Express Routes (April)



PUBLIC ENGAGEMENT KEY FINDINGS

Wake County

The Wake Bus Plan Working Group conducted public engagement on the Wake Bus Plan project in the Spring 2022 and Winter 2023:

- In April and May 2022, the Wake Bus Plan shared initial service concepts with transit riders, stakeholders, and members of the community.
- In February 2023, the Wake Bus Plan shared draft final versions of the Wake Bus Plan with an emphasis on explaining service changes, including changes to individual routes and changes to the overall transit network.

Feedback collected in Spring 2022 showed that riders and residents want GoTriangle—and other regional service providers—to focus on transit fundamentals, such as reliability and predictability, travel time, and particularly a desire for more all-day service. Travel to work was still the most common use of transit, but service to shopping centers, medical facilities, and schools was also valued.

Durham and Orange Counties

The GoDurham and GoTriangle SRTP Working Group conducted additional stakeholder and community engagement activities to specifically focus on service changes developed and recommended for Durham and Orange counties. Engagement activities were conducted in Summer and Fall 2023; the first round focused on service improvement concepts and the second round shared recommended service changes. The team collected this information through surveys, pop-ups, focus groups, tabling at other events and information boards placed at high ridership bus stops.

Bus riders were generally in favor of both the service concepts and recommendations shared as part of the engagement. Transit riders were enthusiastic about increased service frequency, longer hours of operation, new crosstown routes, and more midday service. The Working Group adjusted draft concepts based on feedback collected through the engagement, including the following:

- Routes 100X and DRX: Continue to serve Duke and VA Hospital, Downtown Durham, NCSU, and Downtown Raleigh on all trips. In order to provide a faster all-day alternative to route 100X and faster midday trips between Duke, VA Hospital, and Downtown Raleigh, provide midday hourly service on Route DRX. Route DRX would run less frequently during peak times, about every 45 minutes, but route 100X would provide service on the same corridor every 15 minutes Monday-Friday until 7pm.
- Routes 400 and 405: Only designate AM Carrboro Durham and PM Durham - Carrboro trips as 405, all other trips between Durham and Chapel Hill would be route 400 to provide consistent service, improve system legibility, and reduce confusion among routes 400 and 405.
- Route 420: Continue to provide direct service to Chapel Hill and UNC Hospitals from Hillsborough
- Route CRX: Improve access to Route CRX in the following ways
 - Include stops near the intersection of South Road and S Columbia St. in Chapel Hill to improve access to Downtown Chapel Hill and to improve transfers between Route CRX and Chapel Hill Transit
 - Work with Chapel Hill Transit to improve wayfinding, communication, and coordination between regional and local services so that riders are able to more easily access regional transit services from more locations in Chapel Hill and Carrboro.
 - Delay implementation of the service change until after the construction on I-40 is completed so that existing park rider users will have consistent overall travel times

before and after the alignment change from Eubanks to a new park and ride near the interchange of NC 54 and I-40.

- Increase park and ride availability near the DRX stop in Durham to improve options for existing CRX riders from Hillsborough and points north and west to access express services to Raleigh.
- Route 800: Improve bus stops and pedestrian access to improve transfer opportunities between Route 800 and Route 805 as well as GoDurham Routes 5 and 12.
- Route ODX: Provide connections between Route ODX and Route 420 as well as Orange County Public Transit Routes at the new northern Hillsborough Park and Ride to provide continued access to Route 420 as well as the Durham Tech Orange County Campus.
- The team also made minor adjustments to alignments and expanded the hours of operation on some routes.



Recommended Projects

INTRODUCTION

The SRTP for GoTriangle is focused on service and capital improvements that address findings from the regional service assessment, reflect feedback heard by riders, service providers, and municipalities, and takes into consideration regional growth, changing demographics, and ridership recovery since the COVID-19 pandemic.

These strategies include:

- Ensuring reliable service
- Strengthening all-day regional connections
- Expanding the types of trips served by GoTriangle by adding midday, evening, and weekend service
- Adjusting peak-only services to reflect changing travel patterns
- Improving the rider's experience at stops and ensuring smooth transfers throughout the system and across modes.

The following operating and capital project sheets detail these strategies.

OPERATING PROJECTS

GoTriangle operating projects are funded based on the counties the service is located within, with some projects receiving support from multiple counties. The projects serving multiple counties were developed and prioritized based upon the transit planning processes in those counties.

For GoTriangle, projects funded by the Wake, Durham, and Orange County Transit Plans for FY2025 to FY2028 include:

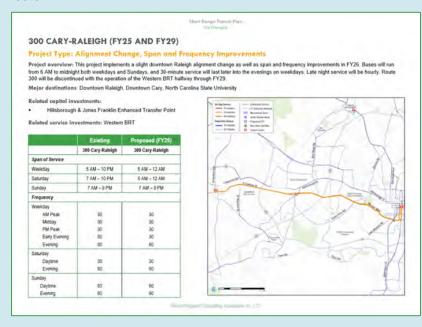
- Extend the hours of operation for Route 300 Cary-Raleigh and improve reliability by shortening its travel path in downtown Raleigh.
- Add midday, evening, and weekend service on Route 305 between Apex and Raleigh, as well as phasing in midday and weekend service to Holly Springs.
- Increase weekday service frequency and add weekend service to Route 310 between Cary, Wake Tech and Regional Transit Center
- Improving bus service in South Durham and Orange Counties to reflect pandemic recovery ridership trends, provide all day connections, and streamline transit services:
 - Realign Route 800 to operate on NC-54 between Southpoint and RTC in conjunction with changes to GoDurham Route 12.
 - Shorten Route 805 and expand its service hours to run between Southpoint, Woodcroft, and UNC all day.
 - To accommodate this improved span, the pre-pandemic service on Route 800S would be discontinued.
- Improving bus service between Durham and Raleigh to reflect pandemic recovery ridership trends, increase frequency, provide all day connections, and expand hours of service:
 - Create a new route (Route 100X) connecting Raleigh, NCSU, Regional Transit Center, Hub RTP, Durham Tech, NCCU, and Durham Station with limited stop service every 15 minutes on weekdays, 30 minutes on weekday early evenings and weekends, and 60 minutes on weekend evenings and weekday late evenings.
 - Increase the hours of operation for the RDU Airport Shuttle with 30 minute-service to RDU Airport at all times,

- providing timed connections to the Route 100X and other GoTriangle routes at the Regional Transit Center.
- To accommodate these new and improved services, the pre-pandemic service on routes 100, 105, and 700 would be discontinued.
- Expand the span of the express DRX route with hourly service in the midday and evening and every 45 minutes during the peak period
- Improve the connection between Downtown Durham and Chapel Hill with more direct service, higher frequency, and longer spans:
 - Realign Route 400 to be more direct, operate later at night, and time with the 405 to provide 15-minute service all day on weekdays, and add service every 30 minutes on weekday early evenings and on Sundays before 7pm.
 - Stagger timing of Route 405 to provide 15-minute service between the 400 and 405 and serve the same alignment at all times.
- Improve the ZWX Zebulon-Wendell Express with midday service and a route realignment to serve shopping, residential neighborhoods, and other destinations in Wendell Falls and Zebulon.
- Reinstate Route 311 between Apex and RTC as an hourly peak-period service.
- Re-align the 420 to take advantage of ongoing and future roadway projects and serve a new Park and Ride in Hillsborough.
- Re-align the CRX to make it more direct and improve reliability for riders.
- Re-align the ODX to make it more direct and improve speed and reliability for riders and serve a new Park and Ride in Hillsborough.

Lastly, GoTriangle Route NRX was suspended during the COVID-19 pandemic (starting in March 2020). This route had low performance prior to the pandemic and serves a peak-focused travel market that has not yet recovered from the pandemic. The Wake Bus Plan evaluated the restoration of this route, but this project had a low priority according to the Project Prioritization Policy, relative to the improvements listed above.

READING PROJECT SHEETS

GoTriangle projects programmed within the SRTP FY28 timeframe are compiled below as a set of "project sheets". Project sheets describe both operating and capital projects, using a combination of maps and detailed information designed to explain changes to each route.



Operating Project Sheets

ROUTE NUMBER AND NAME (FISCAL YEAR OF IMPLEMENTATION)

The Short Range Transit Plan is expressed in fiscal years (FY), which runs from July 1 through June 30. For example, FY25 starts on July 1, 2024, and ends on June 30, 2025.

PROJECTS AND PACKAGES

Project sheets are designed around individual projects. In some cases, projects include multiple route changes that are scheduled to happen at the same time. The package name, if applicable, is shown on the top right of each page to indicate the changes are part of a group, or package.

Project Type

Both new routes and changes to existing routes are proposed in this SRTP. The Project Type indicates what types of changes are part of the project. For changes to existing routes, this includes at least of the following: alignment change, span improvement, and frequency improvement. Alignment changes are adjustments to the path of the bus route. Projects with span improvements may start earlier, end later, or operate on additional days of the week. Frequency improvements increase how often buses run.

Project overview

This section describes the route and specific changes proposed in the project.

Major destinations

List of major activity centers served by the route.

Related capital investments

This section lists the capital investments that accompany the project, if any. Details on capital projects can be found in the capital project sheets.

Related service investments

Projects that are part of a package rely on the implementation of other service investments and changes. Other routes in the package are listed in this section. Eliminated routes do not receive their own project sheet but are included in the Related Service Investment section and shown on the project maps.

Schedule Details

The table on the bottom left of the project sheet describes how service looks before ("Existing") and after ("Proposed") the project is implemented. If a project is a new route, there will be no Existing column. Existing service information uses the Fall 2020 period as a baseline for comparison.

Span of Service refers to the time that service starts and ends (when the final scheduled stop is) on weekdays (Monday – Friday), Saturdays, and Sundays.

Frequency tells you how often a bus is scheduled to run (in minutes). Weekdays are divided into four different time periods, and weekends are divided into two:

- Weekday AM Peak: typically, 6 AM to 9 AM
- Weekday Midday: typically, 9 AM to 3 PM
- Weekday PM Peak: typically, 3 PM to 7 PM
- Weekday Evening: typically, 7 PM to 11 PM
- Weekend Daytime: typically, 6 AM to 7 PM
- Weekend Evening: typically, 7 PM to end of service.

Reading the Map

The project sheet also includes a detailed map showing the route(s):

Frequency: The color used to display the proposed route or routes in the map corresponds to the route's frequency during weekday rush hours. **All-Day Service** routes run throughout the day at 15 minutes (red), 30 minutes (orange), and 60 minutes (brown). **Peak-Only Service** routes run only during weekday AM and PM rush hour peaks, at 30 minutes (dark blue) and 60 minutes (light blue).

Eliminated Service: A black dashed line indicates an area where a bus route previously operated but no longer will under the new project. This may be a fully eliminated line or part of a previous alignment of a route with an alignment change.

Future Bus Network: The solid purple lines represent the proposed bus network for the year the project is proposed for implementation.

Microtransit Zone: Transparent purple polygons represent microtransit zones, within which an on-demand service operates.

Enhanced Transfer Points: For Wake Transit Plan routes, proposed ETPs served by a project are indicated by gray and white dots. More details can be found in the capital project sheets.

Transit Centers: Red "T" icons indicate the region's transit centers in operation the year the project is proposed for implementation.

Capital Projects Sheets

Like the operating project sheets, the capital project sheets are designed to provide detailed information about individual transit investments. Project sheets are grouped by type of investment (Transit Center, Vehicles, Bus Stops, etc.) and by individual projects. Project sheets introduce the investment type, describe why it is important and list relevant information about the investment type, such as amenities included. Individual capital project sheets include:

Location

The location of the planned project.

Project overview

A description of the project and its role/purpose in the Wake Bus Plan implementation.

Estimated Cost by Year

Show estimated cost by year.

Services using Facility

Lists bus routes related to the capital investment within the SRTP timeframe (as appropriate).

300 CARY-RALEIGH (FY25)

Project Type: Alignment Change, Span and Frequency Improvements

Project overview: This project implements a slight downtown Raleigh alignment change as well as span and frequency improvements in FY25. Buses will run from 6 AM to midnight both weekdays and Sundays, and 30-minute service will last later into the evenings on weekdays. Late night service will be hourly. This route will serve Raleigh Union Station Bus (RUS Bus) when it opens in Fall of 2025.

Major destinations: Raleigh Union Station, Downtown Cary, North Carolina State University

Related capital investments:

- Hillsborough & Jones Franklin Enhanced Transfer Point
- Raleigh Union Station Bus (RUS Bus)

	Existing	Proposed (FY25)
	300 Cary-Raleigh	300 Cary-Raleigh
Span of Service		
Weekday	6 AM – 10 PM	6 AM – 12 AM
Saturday	7 AM – 10 PM	6 AM – 12 AM
Sunday	7 AM – 9 PM	7 AM – 9 PM
Frequency		
Weekday		
AM Peak	30	30
Midday	30	30
PM Peak	30	30
Early Evening	60	30
Evening	60	60
Saturday		
Daytime	30	30
Evening	60	60
Sunday		
Daytime	60	60
Evening	60	60



305 HOLLY SPRINGS-APEX-RALEIGH (FY25 AND FY27)

Project Type: Alignment Change, Span and Frequency Improvements

Project overview: This project improves the span, days of service, and frequency of Route 305. Phase 1 of the project in FY 2025 will add midday service between Apex and Raleigh on weekdays so that there is consistent hourly service from 6AM to 9PM. Phase one includes service during peak hours to Holly Springs will operate in both directions. Phase 1 also adds hourly service between Apex and Raleigh on Saturdays from 6 AM to 9 PM and Sundays from 7 AM to 7 PM. Phase 2 in FY 2027 expands service to Holly Springs for all trips with 30-minute frequency during weekday peak, 60-minute service during midday and evening hours, and weekend service. This route will serve Raleigh Union Station Bus (RUS Bus) once it opens in Fall of 2025.

Alignment changes to serve Lake Pine Drive in Apex will occur along with bus stop improvements that are under development already. As part of Phase 1, the Holly Springs portion of the alignment will be adjusted to provide bi-directional service on Main Street.

Major destinations: Apex, Holly Springs, Compare Foods Park and Ride, Lake Pine Plaza Park and Ride, North Carolina State University, Raleigh Union Station Bus (RUS Bus)

Related capital investments:

- Hillsborough & Jones Franklin Enhanced Transfer Point
- Tryon & Kildaire Farm
 Enhanced Transfer Point
- Raleigh Union Station Bus (RUS Bus)

Frequencies with a (*) denote the trips that serve Holly Springs in the peak travel direction only (AM starting in Holly Springs

	Existing	Proposed Phase 1 (FY25)	Proposed Phase 2 (FY27)
	305 Holly Springs-Apex-Raleigh	305 Holly Springs-Apex-Raleigh	305 Holly Springs-Apex-Raleigh
Span of Service			
Weekday	6 AM – 9:30 AM	6 AM – 9 PM	6 AM – 9 PM
	3:45 PM – 7:45 PM	U AIVI – 7 I IVI	O AIVI — 7 I IVI
Saturday	-	6 AM – 9 PM	6 AM – 9 PM
Sunday	-	7 AM – 7 PM	7 AM – 7 PM
Frequency			
Weekday			
AM Peak	60*	60	30
Midday	-	60**	60
PM Peak	60*	60	30
Evening	-	60**	60
Saturday			
Daytime	-	60**	60
Evening	-	60**	60
Sunday			
Daytime	-	60**	60
Evening	-	60**	60

and PM ending in Holly Springs). Frequencies with a (**) denote trips that do not serve Holly Springs



800 CHAPEL HILL-SOUTHPOINT-REGIONAL TRANSIT CENTER (FY25)

SOUTH DURHAM

Project Type: Alignment Change

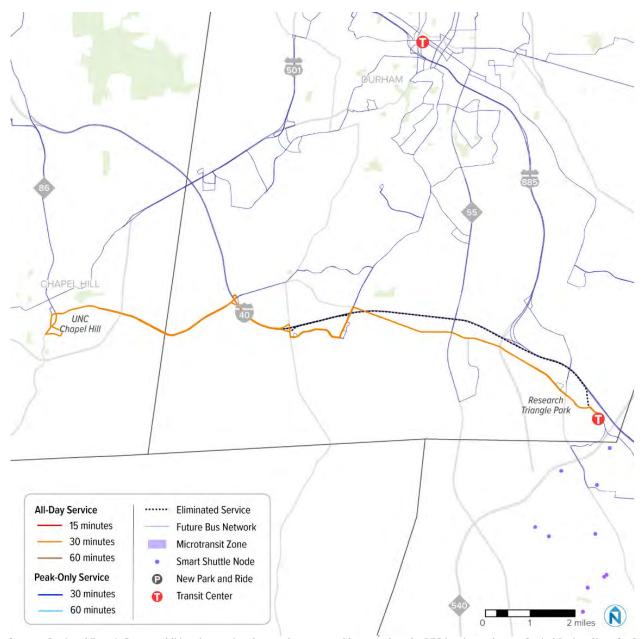
Project overview: In the second half of FY25, Route 800 will travel on NC54 instead of I-40 between Regional Transit Center (RTC) and Southpoint. The route will connect UNC, Chapel Hill, Southpoint, Hub RTP and RTC every 30 minutes Monday through Saturday until 7pm, and every 60 minutes after 7pm and on Sundays. Route 800 will replace segments of GoDurham Routes 12 and 12B and GoTriangle Route 805 along NC 54. Riders can transfer to Routes 5 and 805 at Southpoint, Route 12 at NC 54/55, and Route 100X at RTC. This route will serve the Triangle Mobility Hub (relocated RTC) when completed. The funding for this project is split evenly between Durham and Orange Counties.

Major destinations: UNC, Chapel Hill, Southpoint, Hub RTP, RTC

Related service investments:

- Route 805 Chapel Hill-Woodcroft-Southpoint
- GoDurham 12

	Existing	Proposed (FY25)
	800 Chapel Hill- Southpoint-RTC	800 Chapel Hill- Southpoint-RTC
Span of Service		
Weekday	6 AM – 11 PM	6 AM – 11 PM
Saturday	6:45 AM – 11:15 PM	7 AM – 11 PM
Sunday	6:45 AM – 9:15 PM	7 AM – 9 PM
Frequency		
Weekday		
AM Peak	30	30
Midday	30	30
PM Peak	30	30
Evening	60	60
Saturday		
Daytime	30	30
Evening	60	60
Sunday		
Daytime	60	60
Evening	60	60



Map shows location of current Regional Transit Center, additional operational route changes would occur when the RTC is relocated - see Capital Project Sheet for Regional Transit Center

805 CHAPEL HILL-WOODCROFT-SOUTHPOINT (FY25)

SOUTH DURHAM

Project Type: Alignment Change, Span Improvement

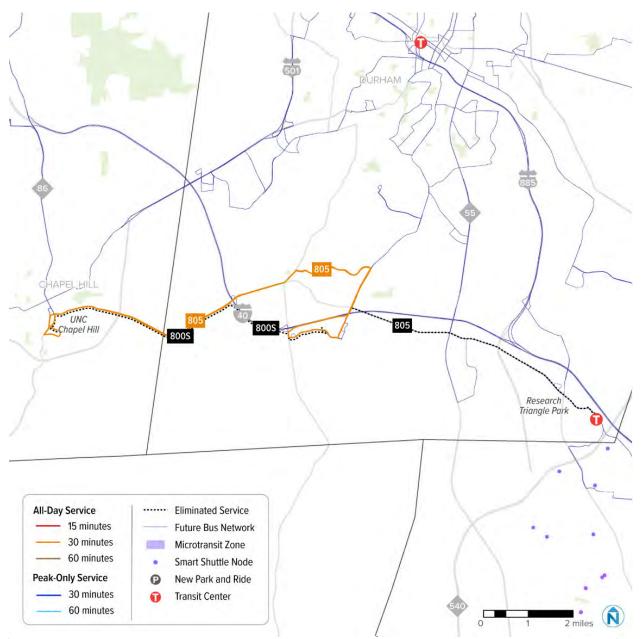
Project overview: In the second half of FY25, Route 805 will become an all-day weekday route, with service every 30 minutes during peak periods and every 75 minutes midday and in the evening. To make this possible the route will be shortened to run between Southpoint, Woodcroft, Jordan High School, Hope Valley Commons, Chapel Hill, and UNC. Resources from the discontinued Route 800S will be invested in Route 805 improvements. The funding for this project is split evenly between Durham and Orange Counties.

Major destinations: UNC, Chapel Hill, Southpoint, Woodcroft, Jordan High School, Hope Valley Commons

Related service investments:

- Route 800 Chapel Hill-Southpoint-RTC
- Elimination of 800S
- GoDurham 12

	Existing	Proposed (FY25)	
	805 Chapel Hill- Woodcroft-Southpoint	805 Chapel Hill- Woodcroft-Southpoint	
Span of Service			
Weekday	6 AM – 10 AM 3:15 PM – 7:30 PM	6 AM – 8 PM	
Saturday	-	-	
Sunday	-	-	
Frequency			
Weekday			
AM Peak	30	30	
Midday	-	75	
PM Peak	30	30	
Evening	-	75	



Map shows location of current Regional Transit Center, additional operational route changes would occur when the RTC is relocated - see Capital Project Sheet for Regional Transit Center

100X RALEIGH-RTC-DURHAM (FY26 AND FY28)

DURHAM-RALEIGH

Project Type: Alignment Change, Span and Frequency Improvements

Project overview: This project improves the span and frequency of Route 100 and extends the route to Durham similar to the alignment of the existing 700, with new direct connections to NCCU, Durham Tech and HUB RTP. The RDU shuttle will provide consistent service to RDU every 30 minutes at all times and Route 100 would no longer serve RDU on evenings and Sundays. The alignment changes will occur in two phases: In FY26, Routes 100 and 700 will be combined, with new service to HUB RTP and no deviation to RDU on evenings and Sundays, and in FY28, the route will operate on Alston and Lawson St in Durham in conjunction with the opening of the Triangle Mobility Hub (new RTC). The funding for this package of route changes is split evenly between Durham and Wake Counties.

Major destinations: Moore Square, Raleigh Union Station Bus (RUS Bus) North Carolina State University, , Regional Transit Center (RTC), Hub RTP, Durham Tech, North Carolina Central University, Downtown Durham

Related capital investments:

- Hillsborough & Meredith College Enhanced Transfer Point
- Hillsborough & Brooks Ave Enhanced Transfer Point
- Raleigh Union Station Bus (RUS Bus)
- Triangle Mobility Hub (new RTC)

Related service changes:

- RDU Shuttle
- Route DRX
- Discontinuation of 105 Raleigh-RTC
- Discontinuation of 700 Durham-RTC

	Existing	Proposed Phase 1 (FY26)	Proposed Phase 2 (FY28)
	100 Raleigh-RDU-RTC	100X Raleigh-RTC- Durham	100X Raleigh-RTC- Durham
Span of Service			
Weekday	6 AM – 11:15 PM	6 AM – 12 AM	6 AM – 12 AM
Saturday	7 AM – 11:15 PM	6 AM – 12 AM	6 AM – 12 AM
Sunday	6:45 AM – 9:15 PM	7 AM – 10 PM	7 AM – 10 PM
Frequency			
Weekday			
AM Peak	30	15	15
Midday	30	15	15
PM Peak	30	15	15
Early Evening	60	30	30
Late Evening	60	60	60
Saturday			
Daytime	30	30	30
Evening	60	60	60
Sunday			
Daytime	60	30	30
Evening	60	60	60

RDU AIRPORT SHUTTLE (FY26)

DURHAM-RALEIGH

Project Type: Span Improvements

Project overview: This project improves the span and days of service of the RDU Airport Shuttle to provide consistent service every 30 minutes to RDU airport at all times. It will operate during the hours the airport was previously served by Route 100 on evenings and on Sundays. The proposed spans match those of the proposed Route 100X such that 30 minute-service to RDU Airport is provided at all times the 100X is in operation, with timed connections to the 100X and other GoTriangle routes at the Regional Transit Center. The funding for this package of route changes is split evenly between Durham and Wake Counties.

Major destinations: Regional Transit Center (RTC), RDU Airport

Related capital investments: Wayfinding improvements at RDU

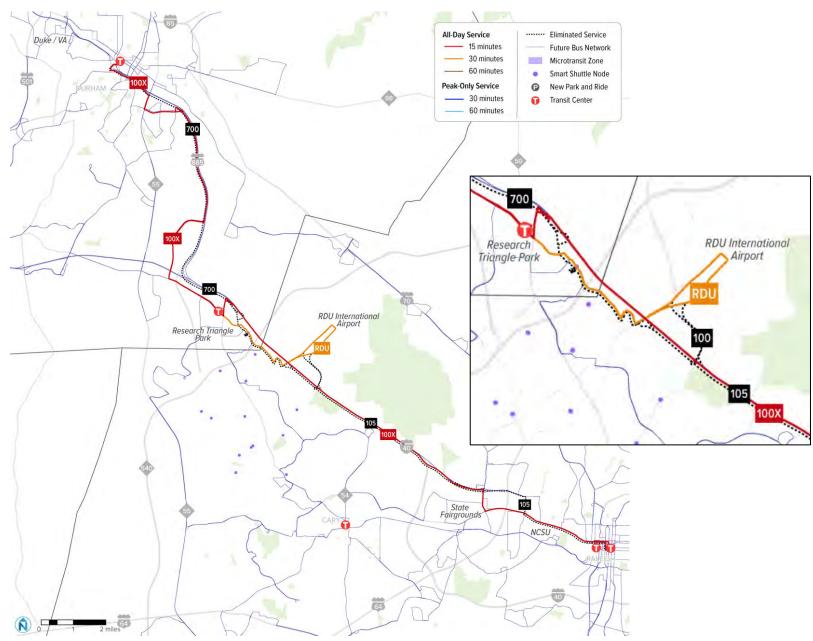
Related service investments:

■ 100X Raleigh-RTC-Durham

Elimination of 105 Raleigh-RTC

Elimination of 700 Durham-RTC

	Existing	Proposed (FY26)
	RDU Airport Shuttle	RDU Airport Shuttle
Span of Service		
Weekday	6:30 AM – 6:30 PM	6 AM – 12 AM
Saturday	7:30 AM – 6:30 PM	6 AM – 12 AM
Sunday	-	7 AM – 10 PM
Frequency		
Weekday		
AM Peak	30	30
Midday	30	30
PM Peak	30	30
Evening	-	30
Saturday		
Daytime	30	30
Evening	-	30
Sunday		
Daytime	-	30
Evening	-	30



Map shows future Regional Transit Center location (see Capital Project Sheet for Regional Transit Center for more details).

DRX DURHAM-RALEIGH EXPRESS (FY26)

Project Type: Alignment Change, Span Improvements

Project overview: In FY26, Route DRX is proposed to reduce peak period service but add hourly midday trips, resulting in all-day service between 5:45 AM and 8:15 PM. The eastern terminus of the route will realign from GoRaleigh Station to the Raleigh Union Station Bus Facility (RUS Bus), seven blocks to the west, where connections to other GoTriangle and GoRaleigh routes will be available. RUS Bus is expected to be completed by Fall 2025. The funding for this project is split evenly between Durham and Wake Counties.

Major destinations: Raleigh Union Station (RUS Bus), NCSU, District Drive Park and Ride, Durham Station, Duke University Hospital, VA Medical Center.

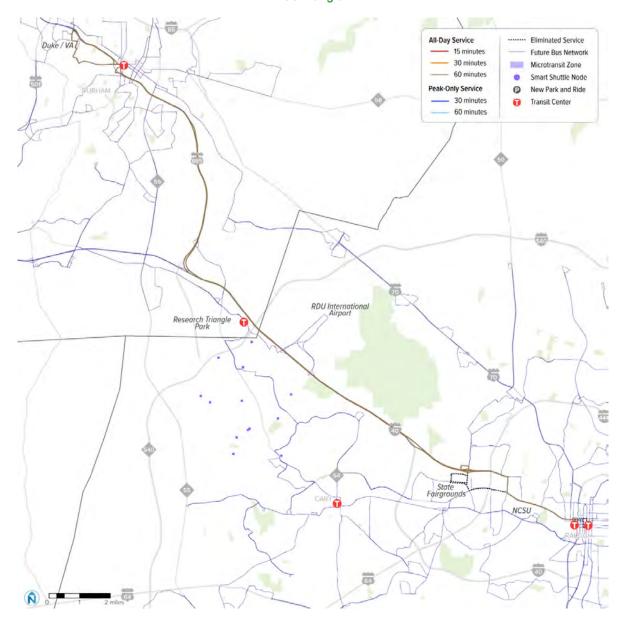
Related capital investments:

• Raleigh Union Station Bus (RUS Bus)

Related Service Changes:

Route 100X

	Existing	Proposed (FY26)
	DRX Durham-Raleigh Express	DRX Durham-Raleigh Express
Span of Service		
Weekday	5:45 AM – 9:45 AM 3 PM – 8:15 PM	5:45 AM – 10:15 AM 3:30 PM – 8:15 PM
Saturday	-	-
Sunday	-	-
Frequency		
Weekday		
AM Peak	25	45
Midday	-	60
PM Peak	30	45
Evening	60	60



400 DURHAM-CHAPEL HILL (FY26)

DURHAM-CHAPEL HILL

Project Type: Alignment Change, Span and Frequency Improvements

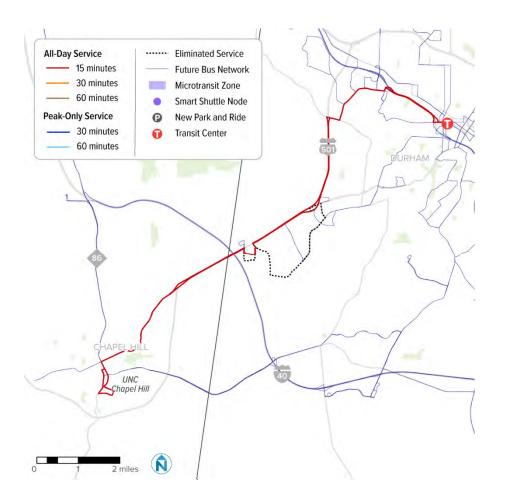
Project overview: In FY26, Route 400 will provide consistent service every 15 min between Chapel Hill, Patterson Place, Duke/VA, and Downtown Durham on weekdays until 7pm, every 30 min on weekdays until 9pm and on weekends until 7pm, and every 60 min at other times. To make frequent service possible, Route 400 will no longer serve Southwest Durham Drive, University Drive, and South Square. At Patterson Place, riders can connect to GoDurham Route 10, which will continue to serve University Dr and South Square every 30 minutes. The funding for this project is split evenly between Durham and Orange Counties.

Major destinations: Downtown Durham, Chapel Hill, UNC, UNC Medical Center, Patterson Place, Duke University Hospital, VA Medical Center.

Related service investments:

405 Durham-Chapel Hill-Carrboro

	Existing	Proposed (FY26)	
	400 Durham-Chapel Hill	400 Durham-Chapel Hill	
Span of Service			
Weekday	6:15 AM – 11 PM	6 AM – 12 AM	
Saturday	7 AM – 11 PM	7 AM – 12 AM	
Sunday	7 AM – 9 PM	7:15 AM – 10 PM	
Frequency			
Weekday			
AM Peak	30	30	
Midday	30	15	
PM Peak	30	30	
Early Evening	60	30	
Late Evening	60	60	
Saturday			
Daytime	30	30	
Evening	60	60	
Sunday			
Daytime	60	30	
Evening	60	60	



405 DURHAM-CHAPEL HILL-CARRBORO (FY26)

DURHAM-CHAPEL HILL

Project Type: Alignment Change

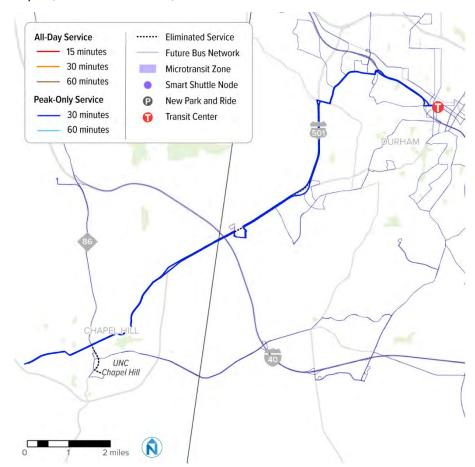
Project overview: In FY26, Route 405 will provide peak-direction service from Carrboro to Durham on weekday mornings and from Durham to Carrboro on weekday afternoons. It will serve Patterson Place on all trips. The funding for this project is split evenly between Durham and Orange Counties.

Major destinations: Carrboro, Chapel Hill, Patterson Place, Duke University Hospital, VA Medical Center, Downtown Durham.

Related service investments:

400 Durham-Chapel Hill

	Existing	Proposed (FY26)
	405 Durham-Chapel Hill-Carrboro	405 Durham-Chapel Hill- Carrboro
Span of Service		
Weekday	5:45 AM – 10 AM	5:45 AM – 9:45 AM
	3:15 PM – 7:15 PM	3:15 PM – 7:15 PM
Saturday	-	-
Sunday	-	-
Frequency		
Weekday		
AM Peak	30	30
Midday	-	-
PM Peak	30	30
Evening	-	-



ZWX ZEBULON-WENDELL-RALEIGH (FY26)

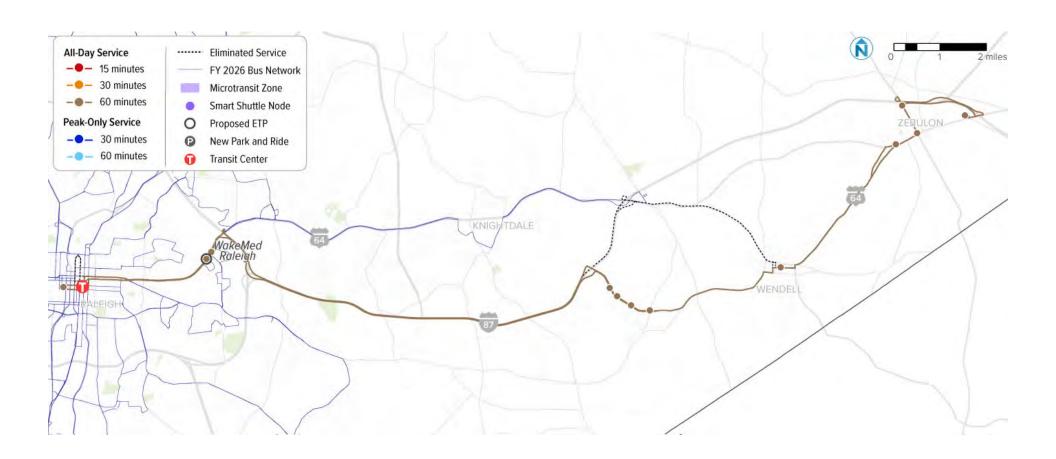
Project Type: Alignment Change and Span Improvements

Project overview: This project adds midday service to the current peak-only express route and adjusts the alignment to serve shopping, residential neighborhoods, and other destinations in Wendell and Zebulon, such as Wendell Falls and the Zebulon Walmart.

Major destinations: Zebulon, Wendell, Wendell Falls, Zebulon Walmart, WakeMed Raleigh

Related capital investments: Bus stop improvements to increase access to residential, shopping, and other destinations in Wendell and Zebulon

	Existing	Proposed (FY26)
	ZWX	ZWX
Span of Service		
Weekday	6 AM – 9 PM 4:15 AM – 7 PM	6 AM – 7 PM
Saturday	-	-
Sunday	-	-
Frequency		
Weekday		
AM Peak	60	60
Midday	-	60
PM Peak	60	60
Evening	-	-



311 APEX-RTC (FY27)

Project Type: Route Reintroduction

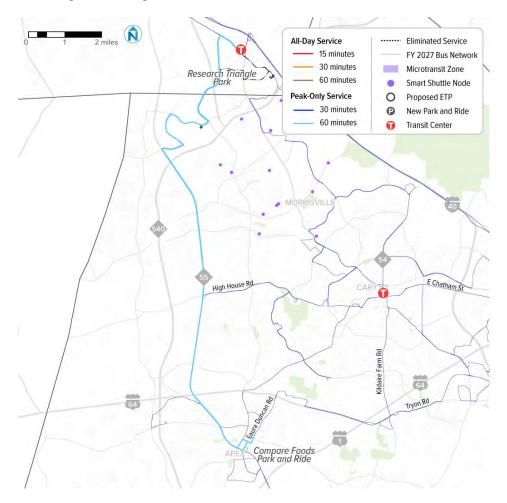
Project overview: This project reintroduces the suspended Route 311 Apex-RTC at a reduced frequency. The 311 would operate between Apex and the Regional Transit Center at 60-minute headways during peak periods, from 6 AM to 8:30 AM and 3:45 PM to 7 PM. The alignment would be almost the same as the previous Route 311, but it would serve the relocated RTC.

Major destinations: Downtown Apex, Compare Foods Park and Ride, Research Triangle Park, Regional Transit Center

Related capital investments: None

Related service investments: None

	Existing	Proposed (FY27)
	311 Apex-RTC	311 Apex-RTC
Span of Service		
Weekday	6 AM – 8:30 AM 3:45 PM – 7 PM	6 AM – 8:30 AM 3:45 PM – 7 PM
Saturday	-	-
Sunday	-	-
Frequency		
Weekday AM Peak Midday PM Peak Early Evening Evening	30 - 30 - -	60 - 60 - -



420 HILLSBOROUGH-CHAPEL HILL (FY27)

Project Type: Alignment Change

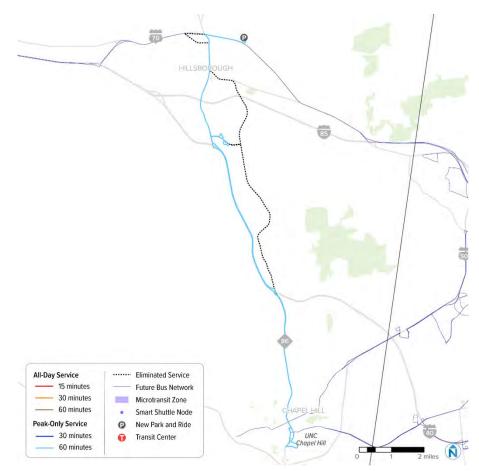
Project overview: In FY27, Route 420 will realign to I-40 and South Churton St instead of NC-86. It will be extended to serve the new Park and Ride at US-70 and Miller Rd. It will continue to connect Downtown Hillsborough, UNC Hospital Hillsborough, Durham Tech Orange County Campus, Chapel Hill, and UNC Hospitals. Route 420 will continue to operate during peak periods only.

Major destinations: Downtown Hillsborough, UNC Hospital Hillsborough, Durham Tech Community College – Orange County Campus, Chapel Hill, UNC Medical Center.

Related capital investments:

North Hillsborough Park and Ride

	Existing	Proposed (FY27)
	420 Hillsborough- Chapel Hill	420 Hillsborough- Chapel Hill
Span of Service		
Weekday	6 AM – 9:15 AM	6 AM – 9:15 AM
	3:45 PM – 7 PM	3:45 PM – 7 PM
Saturday	-	-
Sunday	-	-
Frequency		
Weekday		
AM Peak	40	40
Midday	-	-
PM Peak	40	40
Evening	-	-



CRX CHAPEL HILL-RALEIGH EXPRESS (FY27)

Project Type: Alignment Change

Project overview: In FY27, this project proposes a slight PM peak frequency improvement from 35-minute headways to 30-minute headways to align with AM frequencies and simplify schedules for riders. Route CRX will be realigned to use NC 54 between I-40 and UNC in both directions at all times, making the CRX faster and more reliable. It will serve a new park-and-ride at the NC 54 and I-40 interchange for commuters to NCSU and Raleigh, but not the Eubanks Park-and-Ride. The new routing will provide better access to UNC Hospitals and improve connections between the CRX and all Chapel Hill Transit routes at UNC. The funding for this project is split evenly between Wake and Orange Counties.

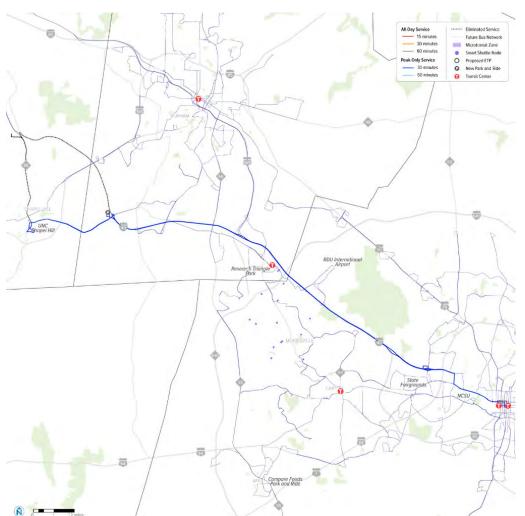
Overall travel time will likely be similar for current park and ride users at the new lot compared to the current Eubanks lot – although driving time to the new lot may be longer for some users, travel time on the bus will be shorter for all users. Additionally, travel times will be shorter for riders transferring from CHT to the CRX or who walk or bike to the CRX in Downtown Chapel Hill.

Major destinations: Downtown Raleigh, UNC, UNC Medical Center, NCSU, NC-54 Park and Ride, District Drive Park and Ride

Related capital investments:

NC 54 Park and Ride

	Existing	Proposed (FY27)
	CRX	CRX
Span of Service		
Weekday	6 AM – 9:45 AM	6 AM – 9:45 AM
	3 PM – 7:45 PM	3 PM – 7:45 PM
Saturday	-	-
Sunday	-	-
Frequency		
Weekday		
AM Peak	30	30
Midday	-	-
PM Peak	30	30
Evening	-	-



ODX ORANGE-DURHAM EXPRESS (FY27)

Project Type: Alignment Change

Project overview: In FY27, Route ODX will be realigned to provide a faster and more direct trip between Mebane, Hillsborough, and Durham. The bus will make stops at Downtown Mebane, Mebane Cone Health Park and Ride, Hillsborough along US 70, a new Park and Ride at US 70 and Miller Rd, Duke and VA Medical Centers, and Durham Station in both directions during morning and afternoon peak periods at all times. The funding for this project is split evenly between Durham and Orange Counties.

Service to Durham Technical Community College - Orange County Campus and Efland-Cheeks Community Center will be removed. Riders can use alternate fixed route and Mobility-On-Demand service provided by OCPT. Riders traveling to the Orange County Campus can also connect to Route 420 at the new North Hillsborough Park and Ride on US 70.

Major destinations: Downtown Mebane, Hillsborough, VA Medical Center, Duke University Hospital, Downtown Durham.

Related capital investments:

North Hillsborough Park and Ride

	Existing	Proposed (FY27)
	ODX	ODX
Span of Service		
Weekday	5:45 AM – 9 AM	5:45 AM – 9 AM
	4 PM – 7:15 PM	4 PM – 7:15 PM
Saturday	-	-
Sunday	-	-
Frequency		
Weekday		
AM Peak	60	60
Midday	-	-
PM Peak	60	60
Evening	-	-



310 CARY-WAKE TECH RTP-RTC (FY28)

Project Type: Alignment Change, Span and Frequency Improvements

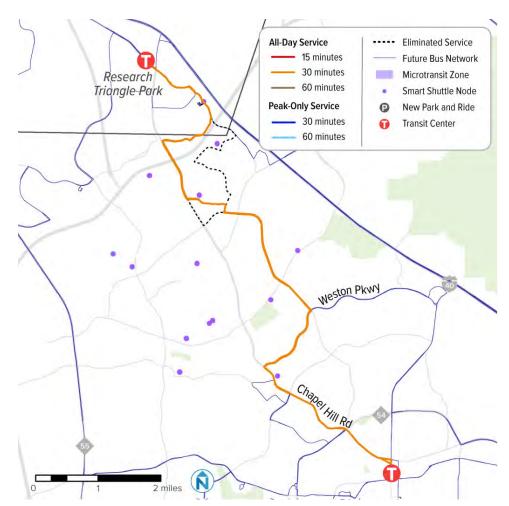
Project overview: In FY28, Route 310 will be rerouted north of Cary to serve the new location of the Regional Transit Center and streamline service near Research Triangle Park. Service will improve to 30 minutes at all times, with weekday service extended from 9:15 PM to 10 PM, and the route will operate on the weekends, with 30 minute service all day on Saturdays from 7:30 AM to 10 PM and Sundays from 8 AM to 9 PM.

Major destinations: Downtown Cary, Research Triangle Park, Regional Transit Center.

Related capital investments:

Regional Transit Center

	Eviating	Dranged (EV20)
	Existing	Proposed (FY28)
	310 Cary-Wake Tech RTP-RTC	310 Cary-Wake Tech RTP-RTC
Span of Service		
Weekday	6:15 AM – 9:15 PM	6:30 AM – 10 PM
Saturday	-	7:30 AM – 10 PM
Sunday	-	8 AM – 9 PM
Frequency		
Weekday		
AM Peak	30	30
Midday	60	30
PM Peak	30	30
Early Evening	60	30
Late Evening	-	30
Saturday		
Daytime	-	30
Evening		30
Sunday		
Daytime	-	30
Evening	-	30



FUTURE OPERATING PROJECTS

The Wake Bus Plan process identified additional transit investments that are within the scope of the Wake Bus Plan but were not prioritized within the FY28 timeframe. There are also projects recommended for implementation after FY30. These projects are described in the FY 2025-2030 Wake Bus Plan document. Additional projects were identified through the Durham Transit Plan and Short Range Transit Plan processes but were not funded or prioritized within the FY28 timeframe. Projects with years next to them are funded in their respective county's transit plan, and otherwise are unfunded potential future improvements that can be revisited as part of future planning processes.

Service Change	Net Annual Operating Cost (FY25\$)	Net Peak Vehicles
Route 100X – Increase service to 30 minutes in the evening	\$591,301	0
Route 300 – Increase service to 30 minutes in the evening and on Sundays	\$559,906	0
Route 400 – Discontinue 405, re-align to serve Carrboro at 15 minutes all day (FY29) *	\$1,590,480	0
Route 420 – Expand service span to all day	\$882,501	1
Route 800 – Increase frequency to 15 minutes all day, improve evening and Sunday service	\$2,765,171	4
Route 805 – Increase service span in the evening and add weekend service	\$1,078,118	0
Route DRX – Increase frequency to 30 minutes all day	\$399,227	1
Route ODX – Increase frequency to 30 minutes during the peak, add 60-minute off-peak service	\$1,113,633	2
RDU Shuttle – Increase service to 15 minutes all day on weekdays	\$546,310	1
Route 200 – New route between North Hills, Brier Creek, and Durham Station	\$4,915,145	5
Route 210 – New route between Brier Creek and RTC	\$881,842	1
Route 710 – New route between The Village in Durham and RTC**	\$1,763,684	2
Route TRX – New Western Wake route from Wake Tech to RTC via Triangle Expressway	\$756,430	4

^{*}Durham and Orange Transit Plan

^{**}Project sponsor has not been determined, but GoTriangle costs are used to estimate annual operating cost.

CAPITAL PROJECTS

GoTriangle's SRTP includes capital projects planned in Wake and Durham counties. These investments are designed to support transit service improvements scheduled between FY2025 and FY2028. Projects planned during the SRTP timeframe are included in this section, with Wake County projects listed first, followed by projects in Durham County.

Transit Plan-funded capital projects include a series of investments in passenger and maintenance facilities. Between FY2025 and FY2028, the following projects sponsored by GoTriangle are scheduled for investment in the Wake Transit Plan:

- Construction and opening of Raleigh Union Station Bus Facility (RUS Bus)
- Construction of the Triangle Mobility Hub (relocated Regional Transit Center (RTC))
- Improvements existing park-and-ride facilities
- Expansion of GoTriangle Operations and Maintenance Facility
- Improvements to existing bus stops and development of new bus stops
- Replacement and expansion fixed route vehicles to operate transit-plan funded services

Transit Centers

Transit Centers are locations where multiple bus routes meet. They are designed to support transfers between multiple bus routes and serve large volumes of passengers. Transit Centers are connected with the frequent transit network, and most will also offer connections with the Wake Bus Rapid Transit network.

As the largest transfer locations in the system, these facilities offer the highest level of passenger amenities in the network. All Transit

Centers will be fully ADA compliant. They will include either indoor waiting areas or large passenger shelters that offer refuge from weather. In addition, transit centers have been programmed to include the following amenities:

- Information systems including real-time passenger information, signposts, maps, bus schedules.
- Wi-Fi hot spots
- Safety features include lighting, emergency phones, and cameras.
- Ticket vending machines
- Space for park and ride users (as appropriate)
- Bicycle parking

Park and Rides

Park and ride lots provide vehicle access to the transit network, either through drive and park, or drop off facilities. The Wake Bus Plan builds on the region's existing park and ride lots by adding additional facilities to support regional and frequent transit routes.

The Wake Bus Plan programmed Park-and-Ride lots with the following package of amenities and services:

- Park-and-ride lot identification markers
- Passenger shelter and benches
- ADA upgrades (curb cuts)
- Safety amenities, including lighting, security cameras and emergency phones.
- Passenger information, including maps.
- Trash and recycling bins
- Bike storage

Bus Stop Improvements

The transit plans include funding to support investments in existing bus stops to ensure stops comply with the Americans with Disabilities (ADA) standards. There is also funding to develop new bus stops along bus routes where alignments have changed and/or new bus routes.

The Wake Bus Plan bus stop program assumes different amenities levels based on the volume of riders using (or expected to use) each bus stop:

- "Simple" bus stops assume bus stop signage, a bench, a trash can, solar light post, and a modest amount of sidewalk improvements (6" or less).
- "Standard" bus stops, which include all the simple bus stop amenities plus a shelter, maps and cases, and additional lighting solar lighting. Standard bus stops also assume acquisition of right of way (ROW) easement.
- "Safety" bus stops are located along major arterials and require pull-outs to ensure buses can safely pull over to allow riders to get on or off the bus.

Funding in the Wake Bus Plan included a mix of funding for simple, standard, and safety bus stops. GoTriangle's service means it is more likely to operate on arterial roadway; as a result, bus stop investments require more safety stops as compared with other transit providers in Wake County.

Enhanced Transfer Points

The Bus Plan and GoTriangle Short Range Transit Plan recommend Enhanced Transfer Points (ETPs) to support transfers, especially in cases where frequent routes connect to other transit plan funded routes and/or there are high volumes of riders.

While the level of amenities and services may vary at least location, ETPs will include a minimum of the following:

- Larger shelter with benches and lighting
- Information systems, including real-time information systems.
- Extended sidewalks and crosswalks
- Wi-Fi hot spots, trash cans, and bike racks

WAKE COUNTY: RALEIGH UNION STATION BUS FACILITY (RUS BUS)

Facility Type: Transit Center

Location: Downtown Raleigh

Project Description: RUS Bus facility will expand transit passenger and operational facilities in downtown Raleigh, including connections between Amtrak intercity passenger rail, planned commuter rail, bus rapid transit projects, and local bus service. The facility will be bike- and pedestrian-friendly. No additional capital funding is assigned to this project, instead Wake Bus Plan includes funding from GoTriangle to the Bus Plan to account for funding from a state grant that was delayed.

The Wake Bus Plan assumes the RUS Bus will be a staffed facility with indoor, climate-controlled passenger waiting areas. Staffing assumptions included in the Wake Bus Plan are high level estimates only and reflect an assumption that the RUS BUS will be open 365 days per year and with 18 hours of staff time per day. The refinement and deployment of these resources will be refined as part of a facility staffing plan.

Estimated Operating and Maintenance Costs by Year

Year	Cost
FY25	\$265,000*
FY26	\$543,000
FY27	\$557,000
FY28	\$571,000

^{*}assumes half-year of funding

Services using Facility:

- GoTriangle Routes: 100X, 300, 305, CRX, DRX, WRX, ZWX
- GoRaleigh Routes: TBD, Union Station currently serviced by Routes 8, 13, and R-line



Representative image: project elements and design will vary by location.

WAKE COUNTY: IMPROVEMENTS TO EXISTING FACILITIES

Facility Type: Park-and-Ride

Location: All locations

Project Description: The Wake Transit Plan provides resources to upgrade existing park-and-ride lots to enhance customers' experience. Improved facilities will include:

- Lot identification
- New or upgraded shelter with bench
- Lighting, security cameras and emergency phones
- Bus service information (signs, maps)
- ADA improvements as needed
- Other amenities to enhance passenger comfort

Estimated Cost by Year

Year	Cost
FY24	\$355,000
FY25	\$57,000
FY27	\$62,000



Representative image: project elements and design will vary by location.

DURHAM, ORANGE AND WAKE COUNTIES: REGIONAL TRANSIT CENTER (RTC)

Facility Type: Transit Center

Location: Slater Road - Durham

Project Description: The GoTriangle Regional Transit Center (RTC) is the primary hub for GoTriangle regional services, offering connections to Wake, Durham, and Orange counties as well as the Raleigh Durham International Airport (RDU) and the Research Triangle Park (RTP). RTC will relocate the existing facility to a location with more convenient freeway access and better positioned to serve RTP.

Investment costs associated with this project include relocation costs as well as updates to the passenger amenities. The transit plans currently assume a local share of \$13.6 million split 70-20-10 among the Wake-Durham-Orange transit plans. This \$13.6 million will be used to match discretionary federal grants to support the full cost of the facility, which is assumed to be \$34,000,000 in FY24. Ongoing schematic design will include revised cost estimates.

The Wake Bus Plan includes funding to support ongoing operating and maintenance costs associated with the facility. Ongoing operating costs will be included in the Wake Transit Plan when the RTC opens in FY28.

Services using Facility:

- RTP Connect
- GoTriangle Routes 100,105, 310, 311, 700, 800, 805, NRX

Year	Cost	Phase
Prior Year	\$6,000,000	Design + Acquisition
FY25	\$2,000,000	Construction
FY26	\$5,000,000	Construction
FY27	\$14,000,000	Construction
FY28	\$7,000,000	Construction



Representative image: project elements and design will vary by location.

<u>DURHAM, ORANGE AND WAKE COUNTIES:</u> GOTRIANGLE BUS OPERATIONS AND MAINTENANCE FACILITY

Facility Type: Maintenance Facility

Location: 5201 Nelson Road

Project Description: The GoTriangle Operations and Maintenance Facility was originally constructed in 1998. In 2006, the facility was updated to add space for administrative functions. The existing facility has multiple deficiencies, including maintenance base, administrative space, and parking, in part because it was sized to accommodate GoTriangle's operations before transit plan expansions; the facility has been operating over-capacity since FY14.

Transit plans will share the cost of the \$40 million facility, splitting 55-30-15 percent among the Wake-Durham-Orange transit plans based on the approximate ratio of revenue hours of transit plan funded service funded by the plans. GoTriangle will submit applications for discretionary federal grant funding to offset the costs to the transit plans.

This project will renovate and expand the capacity to service, maintain, and dispatch the increased service funded by the transit plans. By FY28, GoTriangle will operate approximately 209,200 annual revenue hours of service, an increase of 76,000 revenue hours 57% as compared to FY23 revenue hours (133,000). Increased service hours mean more buses will be on the road for longer periods of the day and more days per week, reducing the time available to service and maintain vehicles. The facility expansion will increase capacity to maintain and service GoTriangle's buses in shorter windows. It will also accommodate the larger workforce of operators necessary to support the service increase.

Estimated Cost by Year

Year	Cost	Phase
Prior Year	\$3,500,000	Design
FY25	\$3,500,000	Design
FY26	\$5,000,000	Construction
FY27	\$14,000,000	Construction
FY28	\$14,000,000	Construction



Representative site plans, project elements and design will vary.

DURHAM, ORANGE AND WAKE COUNTIES: BUS STOPS

Facility Type: Bus Stops

The Wake, Durham and Orange transit plans supports development of new bus stops in accordance with new or revised bus routes. Improvements at each location will vary but are expected to include signage and accessibility according to the federal Americans with Disabilities (ADA) standards (where practical). The development of new bus stops and improvements of existing bus stops in FY25 and FY26 include stops associated with GoTriangle Routes 100, 311 and ZWX. In most cases, but stop improvements are scheduled to occur the year before service begins.

Programmed bus stops are assumed to include the following package of amenities and services:

- Shelter(s)
- Benches
- Lighting
- Passenger information, including real-time information systems.

The Wake Transit Plan provides funding to upgrade existing bus stops to meet ADA standards (as practical) and improve passenger safety and comfort.



Representative image: vehicle type, size, and appearance will vary by project operator.

Year	Wake Existing Bus Stops (Estimate)	Wake New Bus Stops (Estimate)	Durham Bus Stop Improvement Program	Orange Bus Stop Improvements
FY25	\$304,000	\$2,878,200	\$4,056,000	
FY26	\$2,487,000	\$217,000	\$4,218,240	\$1,000,000
FY27	\$329,000	-	\$4,386,970	
FY28	\$342,000	-	\$4,562,448	
FY29	\$356,000	-	\$3,405,747	
FY30	\$370,000	-	\$2,542,300	

WAKE AND DURHAM COUNTIES: FIXED-ROUTE VEHICLE IMPACTS

Project overview: As the fixed route network grows, so will the need for fixed-route buses. The SRTP development process estimated the number of peak buses, revenue hours and revenue miles required to support service expansion planned as part of the Wake and Durham SRTPs (including service to Orange County). The county transit plans estimate the number of vehicles associated with service expansion (e.g., expansion vehicles), including spare vehicles. The transit plan funding assumes funding for clean diesel vehicles, with the potential for alternative fuel vehicles (electric or hydrogen) available if additional funding is secured through other grant programs. As much of the service expansion funded by the transit plans is during midday, evening, and weekend periods GoTriangle's peak fleet needs increase by a small percentage. However, vehicle utilization as well as wear and tear increase significantly as the transit plans fund an increase of 66,662 annual revenue hours, a 49% increase over FY23. During the same time period annual revenue miles will increase by roughly 46% from 2.57 million miles in FY23 to 3.3.75 million in FY28.

To address and program vehicle needs for GoTriangle, the transit plans funded a fleet and facilities study. This effort will determine vehicle needs based on the results of the SRTP and produce an update to GoTriangle's fleet plan that will be programmed into the annual work programs of the county transit plans and GoTriangle's Capital Improvement Plan.

Related service investments: Service/route expansions related to the Wake and Durham SRTP Operating Models.

GoTriangle Fleet Impacts by Year (Estimated, includes service in Durham, Orange, and Wake counties)

	Revenue Hours	Revenue Miles	Peak Vehicles	Spare Vehicles (rounded)	Change in Peak Vehicles + Spares
FY23*	134,901	2,574,951	53	10	-
FY24*	134,901	2,574,951	54 10		1
FY25	148,381	2,679,368	54	10	-
FY26	192,915	3,410,025	56	11	3
FY27	201,563	3,580,343	60	12	5
FY28	201,563	3,753,478	60	12	-

DURHAM COUNTY: ENHANCED TRANSFER POINTS (FY24 – FY28)

Facility Type: Enhanced Transfer Points

Project Description: Eleven enhanced transfer points (ETPs) are programmed as part of the GoDurham SRTP. The ETPs are planned at GoDurham's high ridership stops and at bus stops served by two or more frequent bus routes. These larger bus stops are designed to improve rider comfort and safety with more facilities and amenities. The ETPs will be developed by either GoDurham or GoTriangle, depending on the location. Programmed costs assume that planning and design is started in year one with any land or right-of-way purchases and construction of the site scheduled for year two.

ETPs are planned for the following locations with the five ETPs scheduled for development during the SRTP planning period:

- Guess / Horton (serves Routes 1 and 14)
- Duke / Veteran's Administration (serves Routes 6 and 11)
- NC 55 / Lawson (serves Routes 8 and 12)
- NC 54 and NC 55 (serves Routes 12 and 800)
- North Duke (Horton/Roxboro) (serves Routes 4 and 14)
- NC 55 and Riddle (serves Routes 8 and 12)
- Fayetteville and Riddle (serves Routes 5, 7 and 8)
- Hub RTP (Routes 100X, 800, RTP connect)
- Patterson Place (funded) (serves Routes 10,400 and 405)
- Two locations to be determined.

Year	Programmed ETP's	Planning & Design	Real Estate & Construction	Total
FY25	-	\$141,404	-	\$141,404
FY26	1	\$294,120	\$565,616	\$859,736
FY27	2	\$305,885	\$1,176,481	\$1,482,366
FY28	2	\$477,181	\$1,223,541	\$1,700,721



Representative image: project elements and design will vary by location.

Appendix A: Operating Statistics Tables

SYSTEM SUMMARY

Peak Buses	FY2023 Authorized	FY2025 (1st half)	FY2025 (2nd half)	FY2026	FY2027	FY2028
Weekday	53	54	51	56	60	60
Sat	15	17	18	18	19	22
Sun	8	10	10	15	16	19
Revenue Vehicle Miles	FY2023 Authorized	FY2025 (1st half)	FY2025 (2nd half)	FY2026	FY2027	FY2028
Daily Weekday	8,859	9,193	8,963	11,620	12,204	12,593
Daily Sat	3,865	4,405	4,349	4,713	4,932	5,676
Daily Sun	2,018	2,425	2,381	3,540	3,715	4,335
Annual Total	2,574,951		2,679,368	3,410,025	3,580,343	3,753,478
Revenue Vehicle Hours	FY2023 Authorized	FY2025 (1st half)	FY2025 (2nd half)	FY2026	FY2027	FY2028
Daily Weekday	467	505	507	657	686	708
Daily Sat	195	227	239	267	282	324
Daily Sun	99	123	132	200	212	248
Annual Total	134,901		148,381	192,915	201,563	211,536
Operating Cost	FY2023 Authorized	FY2025 (1st half)	FY2025 (2nd half)	FY2026	FY2027	FY2028
Daily Weekday	\$73,292	\$83,183	\$83,591	\$111,061	\$118,715	\$125,676
Daily Sat	\$30,523	\$37,342	\$39,387	\$45,017	\$48,740	\$57,412
Daily Sun	\$15,502	\$20,242	\$21,671	\$33,784	\$36,706	\$44,013
Annual Total	\$21,160,333	n/a	\$24,453,147	\$32,587,170	\$34,899,073	\$37,541,558

ANNUAL REVENUE VEHICLE HOURS AND OPERATING COST BY ROUTE BY YEAR

Davita	EVOCCO Ande		I Revenue Vehicle		EV2020	EVOQOQ A4l-		nual Operating C		FV2020
Route	FY2023 Auth.	FY2025	FY2026	FY2027	FY2028	FY2023 Auth.	FY2025	FY2026	FY2027	FY2028
100	14,939.00	14,939.00	-	-	-	\$2,343,310	\$2,461,940	\$0	\$0	\$0
700	9,729.75	9,729.75	-	-	-	\$1,526,194	\$1,603,458	\$0	\$0	\$0
100X	-	-	46,860.00	46,860.00	51,014.00	\$0	\$0	\$7,915,567	\$8,113,456	\$9,053,507
300	10,020.50	13,538.00	13,538.00	13,538.00	13,538.00	\$1,571,801	\$2,231,056	\$2,286,832	\$2,344,003	\$2,402,603
301	-	-	-	-	-	\$0	\$0	\$0	\$0	\$0
305	5,313.00	14,331.00	14,331.00	20,358.00	20,358.00	\$833,389	\$2,361,742	\$2,420,785	\$3,524,834	\$3,612,955
310	8,855.00	8,855.00	8,855.00	8,855.00	14,659.50	\$1,388,982	\$1,459,300	\$1,495,782	\$1,533,177	\$2,601,637
311	-	-	-	3,036.00	3,036.00	\$0	\$0	\$0	\$525,661	\$538,802
400	18,453.50	18,453.50	33,982.50	33,982.50	33,982.50	\$2,894,589	\$3,041,128	\$5,740,306	\$5,883,814	\$6,030,909
405	5,945.50	5,945.50	3,415.50	3,415.50	3,415.50	\$932,602	\$979,815	\$576,945	\$591,368	\$606,152
420	4,554.00	4,554.00	4,554.00	4,554.00	4,554.00	\$714,334	\$750,497	\$769,259	\$788,491	\$808,203
800	17,020.62	18,222.81	19,425.00	19,425.00	19,425.00	\$2,669,830	\$3,003,110	\$3,281,261	\$3,363,293	\$3,447,375
800S	-	-	-	-	-	\$0	\$0	\$0	\$0	\$0
805	6,957.50	6,641.25	6,325.00	6,325.00	6,325.00	\$1,091,343	\$1,094,475	\$1,068,416	\$1,095,126	\$1,122,504
CRX	9,740.50	9,740.50	9,740.50	8,855.00	8,855.00	\$1,527,881	\$1,605,230	\$1,645,360	\$1,533,177	\$1,571,506
DRX	11,549.45	11,549.45	11,549.45	11,549.45	11,549.45	\$1,811,630	\$1,903,344	\$1,950,927	\$1,999,700	\$2,049,693
ODX	2,739.99	2,739.99	2,739.99	3,162.50	3,162.50	\$429,791	\$451,549	\$462,838	\$547,563	\$561,252
RDU	3,597.00	3,597.00	6,298.00	6,298.00	6,298.00	\$564,220	\$592,784	\$1,063,855	\$1,090,451	\$1,117,713
WRX	2,530.00	2,530.00	2,530.00	2,530.00	2,530.00	\$396,852	\$416,943	\$427,366	\$438,050	\$449,002
ZWX	2,024.00	2,024.00	7,590.00	7,590.00	7,590.00	\$317,482	\$333,554	\$1,282,099	\$1,314,151	\$1,347,005

PEAK VEHICLES BY ROUTE BY YEAR

			Weekda						Saturda						Sunday			
Route	FY23	FY25 P1	FY25 P2	FY26	FY27	FY28	FY23	FY25 P1	FY25 P2	FY26	FY27	FY28	FY23	FY25 P1	FY25 P2	FY26	FY27	FY28
100	3	3	3	0	0	0	3	3	3	0	0	0	2	2	2	0	0	0
700	2	2	2	0	0	0	2	2	2	0	0	0	1	1	1	0	0	0
100X	0	0	0	11	11	11	0	0	0	5	5	6	0	0	0	5	5	6
300	2	3	3	3	3	3	2	2	2	2	2	2	1	1	1	1	1	1
301	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
305	3	3	3	3	6	6	0	2	2	2	3	3	0	2	2	2	3	3
310	3	3	3	3	3	3	0	0	0	0	0	2	0	0	0	0	0	2
311	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0
400	5	5	5	7	7	7	4	4	4	4	4	4	2	2	2	4	4	4
405	4	4	4	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0
420	3	3	3	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0
800	4	4	4	4	4	4	3	3	4	4	4	4	2	2	2	2	2	2
800S	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
805	4	4	3	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0
CRX	6	6	6	6	5	5	0	0	0	0	0	0	0	0	0	0	0	0
DRX	5	5	5	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0
ODX	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0
RDU	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1
WRX	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0
ZWX	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0

AGENDA ACTION ITEM



Connecting all points of the Triangle

Submitted by: Michelle Peele, Capital Development

Meeting date: January 3, 2024

SUBJECT: Wake Transit ADA Policy and Service Guidelines and Performance Measures
Administrative Document

Strategic Objective or Initiative Supported

Ensure an attractive and accessible transit environment

Staff Recommendation

Staff requests the committee to adopt both the Wake Transit ADA Policy and Service Guidelines and Performance Measures document.

Item Summary

Wake Transit ADA Funding Policy

The Wake Transit Plan also includes investments in demand-response services, such as complementary paratransit, which is required by the Federal Transit Administration (FTA) and the Americans with Disability Act (ADA) to ensure access to public transit for individuals unable to use or travel to or from fixed-route transit services due to a disability. As the Wake Transit Plan expands fixed-route transit service, there will be an increase in the availability and use of complementary paratransit, particularly at times or in places where transit service was not previously available.

The policy recommends how the Wake Transit Plan will account for the costs of providing complementary paratransit (ADA paratransit) associated with an expanded transit network in Wake County. In the context of the Wake Transit Plan, accounting for ADA paratransit costs includes:

- Budgeting or the process for estimating the amount of money the Wake Transit Plan should set aside to pay for growth in ADA paratransit.
- Reimbursements, or how individual transit agency partners should seek payment (reimbursements) from the Wake Transit Plan for ADA paratransit costs incurred as part of implementing the Wake Transit Plan.

This policy applies to the providers that provide ADA complementary services required by fixed route transit service funded through Wake Transit. This policy does not apply to providers who received funding from the Community Area Funding Program. The ADA funding policy recommends the Wake Transit Plan creates a 15% set aside for ADA paratransit costs representing 15% of the fixed-route budget for each provider.

Wake Transit Service Guidelines and Performance Measures

The Wake Transit Plan Service Guidelines and Performance Measures establish a framework and rationale for the operation and investment in transit services in Wake County. Service design guidelines set consistent standards by service type, so that similar types of service are implemented the same way across the county, so riders can trust that services will be available when they need them. Performance measures track and report on the productivity of individual services and the overall network. The combined framework is intended to communicate a clear, consistent, and equitable investment strategy that is understandable to the Wake Transit Bus Plan's stakeholders, including transit riders, transit operators, elected officials, and taxpayers.

The service level standards are determined based on five standards:

- 1. Span of Service: Sets route start and end times.
- 2. Service Frequencies: Recommends how often transit service is operated.
- 3. Passenger Loads: Establishes acceptable levels of passenger volumes relative to the number of available seats.
- 4. Bus Stop Spacing and Amenities: Recommends stop spacing and amenity investments.

The performance measures includes metrics that focus on service quality, service effectiveness, cost effectiveness, service impact, and customer satisfaction.

- 1. Service Quality: On-time performance compares scheduled and actual bus departure and arrival times at fixed time points.
- 2. Service Effectiveness: Productivity
 - i. Riders per revenue hour the number of boarding's divided by the total number of hours the vehicles on a route are in service.
 - ii. Riders per revenue trip the number of boarding's divided by the number of trips a route makes during the day. Peer agencies use this metric as a more appropriate way to measure routes that run fewer trips each day over longer distances
- 3. Cost Effectiveness: Operating Costs
 - Operating Cost per Rider the amount spent on operating a bus route (fuel, vehicle maintenance and repairs, and operator wages and benefits) divided by the number of riders carried on the bus route.
- 4. Service Impact: Equity
 - The Service Impact measure qualifies bus routes for a relaxed standard, given the added impact of serving low-income and historically disadvantaged communities.
 - ii. CAMPO's 2050 Metropolitan Transportation Plan developed a methodology to identify "communities of concern" for environmental justice analysis using six American Community Survey metrics: race (non-

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Research Triangle Park, NC 27709 P: 919.485.7510 | F: 919.485.7547 white), ethnicity (Hispanic or Latino origin), poverty (below 150% of the poverty line), elderly population (65+), vehicle availability (zero-vehicle households), and English proficiency (people who do not speak Englishor speak English "less than very well"). A block group meets the indicator threshold for each metric if the percentage of the targeted population is in the 75th percentile of all CAMPO block groups.

- iii. Bus routes would be eligible for a FIXED service impact benefit if at least 50% of the stops are located within one-quarter mile of block groups that include at least four (4) equity groups identified on CAMPO's communities of concern map.
- iv. Bus routes that qualify for the FIXED service impact benefit are required to meet 80% of the standard for riders per hour / riders per trip and 120% of the standard for cost per rider.
- v. Bus routes would be eligible for a VARIABLE service impact benefit if at least 25% of the stops are located within one-quarter mile of block groups that include at least four (4) equity groups identified on CAMPO'S communities of concern map.
- vi. Bus routes that qualify for the VARIABLE service impact benefit are required to meet the annual standard for riders per hour/riders per trip less 5% (-5%) and the annual standard for cost per rider plus 5% (+5%).
- 5. Customer Satisfaction Customer Satisfaction Survey
 - Each of the transit providers in Wake County will administer an annual customer satisfaction survey to gauge customer satisfaction. The goal is to ensure each transit provider prioritizes accessibility, comfort, security, reliability, cleanliness, courtesy, and communication.

Financial Impact

<u>ADA Policy</u>: GoTriangle will be reimbursed by the Wake Transit Plan for federally mandated paratransit trips provided in Wake County. The policy authorizes GoTriangle to be reimbursed 15% of the total amount of fixed service transit operations funded by the Wake Transit Plan recommended by the board, the proposed policy will have zero financial impact to the FY24 Wake Transit Work Plan. The FY25 financial impact is currently being calculated as part of the FY25 Wake Transit Work Plan development process and is anticipated to be \$627,495.

<u>Service Guidelines and Performance Measures</u>: If recommended by the board, the proposed policy will have no financial impact

Attachments

- ADA Policy
- Service Standards and Performance Guidelines

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WAKE BUS PLAN: ADA FUNDING POLICY

WAKE BUS PLAN: ADA FUNDING POLICY draft was recommended by the TPAC Program Development Subcommittee on October 24, 2023. Public engagement period conducted from November 6-20, 2023. TPAC consideration is scheduled on December 13, 2023, with Wake Transit governing board consideration anticipated to occur in January 2024.

Once adopted, this policy will take effect in the next full quarter of Wake Transit Operations. If adopted on the schedule noted above, it will become applicable for the reimbursement of ADA paratransit expenditures accrued within the 3rd quarter of FY2024 (January 1-March 31, 2024).



1 Introduction

The Wake Transit Plan supports increased transit investment in Wake County, with transit development organized around "Four Big Moves":

- Connect the region
- Connect all Wake County communities
- Create frequency and reliable urban mobility
- Enhance access to transit

The Wake Transit Plan also includes investments in demand-response services, such as complementary paratransit, which is required by the Federal Transit Administration (FTA) and the Americans with Disability Act (ADA) to ensure access to public transit for individuals unable to use or travel to or from fixed-route transit services due to a disability. As the Wake Transit Plan expands fixed-route transit service, there will be an increase in the availability and use of complementary paratransit, particularly at times or in places where transit service was not previously available.

This technical memorandum recommends a policy for how the Wake Transit Plan will account for the costs of providing complementary paratransit (ADA paratransit) associated with an expanded transit network in Wake County. In the context of the Wake Transit Plan, accounting for ADA paratransit costs includes:

- Budgeting or the process for estimating the amount of money the Wake Transit Plan should set aside to pay for growth in ADA paratransit.
- Reimbursements, or how individual transit agency partners should seek payment (reimbursements) from the Wake Transit Plan for ADA paratransit costs incurred as part of implementing the Wake Transit Plan.

This policy applies to the providers that provide ADA complementary services required by fixed route transit service funded through Wake Transit. This policy does not apply to providers who received funding from the Community Area Funding Program.

TASK OVERVIEW

The ADA Funding Policy was prepared as part of the 2023 Wake Transit Plan's Wake Bus Plan; it was designed to clarify the process for budgeting and reimbursing costs of providing ADA paratransit associated with expansion and growth in the underlying regional fixed-route network. The policy was intended to be simple to understand, easy to use and replicate, and reward efficient operations. The policy also seeks to balance differences among the Wake transit providers while creating a consistent approach.

ADA COMPLEMENTARY PARATRANSIT REQUIREMENTS

Under the ADA, transit agencies providing non-commuter fixed-route transit services must offer demand-response paratransit service as a complement to their fixed-routes. Complementary paratransit (or ADA paratransit) is intended to provide service to people with disabilities who cannot access fixed route service because of a disability.

In a bus system, ADA paratransit must be provided to eligible individuals during the same days and hours and within ¾ mile of fixed routes, and paratransit fares cannot exceed twice the fixed-route fares. Transit agencies must accept trip requests up to the day prior to travel and must accommodate demand without constraints on capacity. Individuals wishing to travel on ADA paratransit must apply for and be determined eligible for the service. The Federal Transit Administration (FTA), which oversees transit agency ADA compliance published an ADA Circular¹ that more fully describes these requirements and offers technical guidance on implementation.



¹ https://www.transit.dot.gov/regulations-and-guidance/fta-circulars/americans-disabilities-act-guidance-pdf

2 Existing Conditions: ADA Budgets and Reimbursements

OVERVIEW

The first step in developing a policy for future processes was to consider how the budgeting and reimbursements work today. The Wake Bus Plan team examined existing conditions by reviewing the 2018 Wake Bus Plan and Annual Work Plans. The team also interviewed representatives of each of the three transit providers to understand how they budget ADA costs, estimated costs, and requested reimbursements. The team asked agency staff for their perspectives on how well the existing methods work and used the meetings to request available data specific to ADA budgeting and reimbursements.

Key findings from the data and conversations included:

- Transit providers spend a considerable portion of their operating budgets providing ADA paratransit services. ADA paratransit costs have been increasing year on year for the past several years (see
- Transit operators have not consistently requested reimbursement for ADA costs incurred as part of the Wake Transit Plan.
- Figure 1)².
- ADA costs are increasing, due in part to inflation, escalation in driver pay, and regional population growth.
- ADA ridership is in flux. After year-on-year increases between FY16 and FY19, ridership softened, as the impact of COVID-19 was felt across all services. ADA ridership, like all transit ridership, started to recover in 2021 and 2022. ADA riders are returning to the system in part because of the suspension of fares means ADA services are also free.

GoRaleigh and GoTriangle are spending an increasing portion of their systemwide costs on ADA services. Depending on the agency, ADA paratransit costs represent between 15% and 25% of overall operating costs (see Source: National Transit Database (adapted by Nelson\Nygaard)

Figure 2).

² GoCary is not included because analysis is based on NTD. GoCary's ADA costs are combined with other demand response service operated by the agency.

Wake Bus Plan ADA Funding Policy

- National experience suggests that ADA demand (or ridership) is broadly linked to
 population, poverty levels, and the underlying transit service. ADA demand is also
 influenced by the overall usability of the network; as the network expands and fills in, it
 will provide access to more destination, be more useful to more people, including people
 using ADA service.
- Both the budgeting process for setting aside funds to cover ADA costs and the process to request reimbursement for ADA expenses has been inconsistent and complicated for transit operators.
- There is a strong desire among providers currently operating ADA complementary service to support Wake Transit funded projects, for the process to both estimate (budget) costs and reimburse expenses using a method that is clear, consistent, and simple.
- Over time, Wake Transit Plan funded bus services will be mixed in with nearly all bus
 routes operating in the County. This means that it will become harder to attribute
 increased ADA costs to specific Wake Transit Plan bus route or service investments.
- Transit operators have not consistently requested reimbursement for ADA costs incurred as part of the Wake Transit Plan.

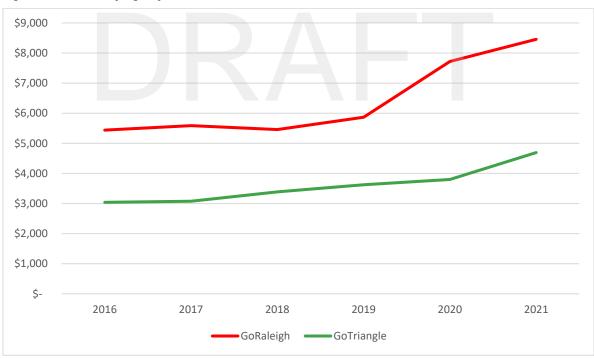


Figure 1 ADA Costs by Agency (2016 - 2021) in 000s

Source: National Transit Database (adapted by Nelson\Nygaard)

Wake Bus Plan ADA Funding Policy

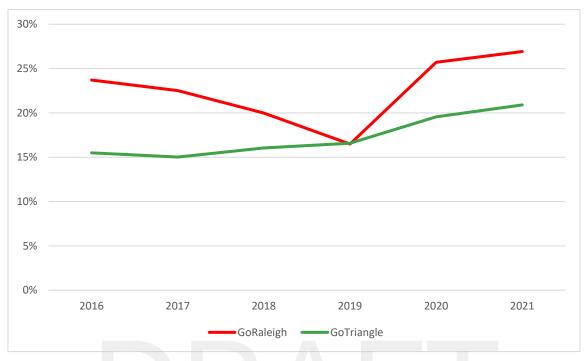


Figure 2 ADA Costs as a Percentage of Fixed Route Costs (2016 -2021)

Source: National Transit Database (adapted by Nelson\Nygaard)

ADA BUDGETING AND REIMBURSEMENT METHODS

Background

As part of the Wake Transit Plan, regional stakeholders prepare a multi-year operating and capital plan (the Wake Bus Plan) every four years. The Bus Plan creates a long- and short-term strategy for how the Wake Transit Plan will invest in bus service over a nine-year period (FY19 – FY27) as well as short range transit plans for the four-to-five-year period (FY19 – FY23). Fixed route service and capital are planned, prioritized, and programmed as part of this process within the financial constraints of available revenues. The costs of providing ADA services are included as part of this process.

The Wake Transit Plan refines the projects programmed in the Wake Bus Plan each year as part of developing Annual Work Plans. As part of the Annual Work Plans, stakeholders adjust and refine the projects recommended in the Wake Bus Plan based on changes and recent experience with implementation.

The 2018 Wake Bus Plan programmed service and capital investments for the years between FY18 and FY27 and prepared short range transit plans for FY18 – FY23. The 2023 Wake Bus Plan estimated ADA operating costs as a separate line item that is not assigned to individual transit operators. The cost estimates were developed based on changes to the overall (systemwide) bus service investments, such as increased span of service on several bus routes and new fixed route bus projects that expand service into new areas. Funds budgeted for ADA, however, were not assigned to a specific transit operator.

Budgeting ADA Paratransit Costs

As the Wake Bus Plan transitioned into Annual Work Plans, the process for estimating the cost of ADA services evolved, reflecting a combination of experience and need:

- FY 2018 and FY 2019: ADA costs were estimated on a system-wide basis, based on fixed route investments: As described above, initial cost estimates for ADA services were influenced by the programmed fixed-route services but developed separately. They did not assignment costs or budgets to individual transit operators.
- FY 2020: ADA costs budgeted as part of specific fixed route service costs:, As part of the Wake Transit Plan Vision Update, ADA costs were assigned as a separate line item and tied to specific fixed route investments. In some cases, costs (funds) were assigned to specific transit operators. For example, GoRaleigh's Northwest Route Additions were budgeted at \$4,385,463 and associated ADA costs were budgeted at \$356,700.
- FY2021 FY 2023: ADA costs budgeted as single line items: Beginning with the FY21 Annual Work Plan and continuing through FY23, each provider's anticipated ADA costs were presented as a separate line item. In FY23, annual workplans also include a reserve fund titled ADA/Paratransit Operations Expansion.

Reimbursing ADA Paratransit Costs

Neither the Wake Bus Plan nor the Annual Work Plan specified a process for reimbursing operators for the costs of ADA services. This contrasts with reimbursements for fixed route service improvements, where costs are clearly included in the annual work plans; each fixed route project has an associated cost estimate. Operators agree to implement these fixed route projects and request reimbursement based on actual costs.

The transit operators do not have a specific method for requesting reimbursements. Each operator used different methods to estimate the additional cost of ADA services and requested funding, or in some cases operators did not request reimbursement at all. Indeed, only GoRaleigh requested reimbursements each year; GoCary requested reimbursements for ADA services in FY22 and GoTriangle has not requested any costs associated with operating ADA services to date.

TRANSIT OPERATOR PERSPECTIVE

Individual transit operators have had different experiences and taken different approaches with regards to ADA services. The experience of each operator is described below together with available data on funding assigned to ADA services and the amount reimbursed.

GoCary

GoCary is the smallest transit provider in Wake County, both in terms of its service area and in the amount of service operates. GoCary operates ADA paratransit beyond the ¾-mile minimum required by ADA and operates demand-responsive services for residents aged 60 or older. Data included in this analysis is for the ADA service associated with the Wake Transit Plan only. See Appendix A for additional background and data sources.

Wake Bus Plan ADA Funding Policy

GoCary implemented new fixed route service projects each year between FY18 and FY22. In the first two years, there was not a separate line item for ADA costs, but ADA costs were called out in FY20, FY21 and FY22. There is no clear justification for how the estimate for ADA costs was developed; as a portion of fixed route services, the budgeted cost estimate ranges from 4.4% in FY20 to 6.4% in FY21 (see Figure 3).

GoCary has requested reimbursements from the Wake Transit Plan each year, but historically has not requested the full amounts allocated. In FY20 when ADA costs had a specific amount set aside for ADA service, GoCary did not request reimbursement. FY21 was the first year that GoCary requested reimbursements for increased ADA service costs; it is unclear if GoCary submitted materials or information to justify the reimbursement.

Figure 3 GoCary Fixed Route and ADA Budgets and Reimbursements FY18 - FY22

Mode/Year	FY18	FY19	FY20	FY21	FY22
Work Plan budgeting method	Combined	Combined	Project-based	ADA/fixed separate	ADA/fixed separate
Budgets					
Fixed route budget	N/A	N/A	\$1,928,755	\$1,941,795	\$2,135,974
ADA budget	N/A	N/A	\$84,554	\$125,000	\$132,360
Combined ADA and FR budget	\$938,522	\$1,422,046	\$2,013,309	\$2,066,795	\$2,268,334
ADA percentage of FR budget	N/A	N/A	4.4%	6.4%	6.2%
Reimbursements					
Reimbursed fixed route	\$304,411	\$695,650	\$874,612	\$1,126,278	TBD
Reimbursed ADA	N/A	N/A	N/A	\$125,000	TBD
Total Reimbursed	\$304,411	\$695,650	\$874,612	\$1,401,278	TBD

Source: Adopted work plans, GoTriangle; N/A - not available

GoRaleigh

The region's largest transit provider, GoRaleigh operates more bus routes than any other provider; it also provides more ADA trips. Between 2019 and 2021, GoRaleigh's systemwide ADA costs were between 16% and 27% of the costs of their fixed route³. Additional information on GoRaleigh's service is available in Appendix A.

GoRaleigh has been at the forefront of Wake Transit Plan development, responsible for implementing significant portions of the fixed route service expansion. Wake Transit Plan budget increases range from \$1.6 million in projects in FY18 to more than \$15 million in FY22. Costs for expanded ADA services were also included in the budget. As a percentage of Wake Transit funded fixed route service, the ADA allocations were 11.5% in FY20 and FY21 and 14.1% in FY22 (see Figure 4).

7

³ National Transit Database

GoRaleigh has been requesting ADA reimbursements from the Wake Transit Plan. GoRaleigh's invoices for ADA service ranged between 8.8% and 21.2% of amounts invoiced for fixed route service. The reimbursement process varied according to the budgeting method. When the published Wake Transit Plan did not include a specific line item for ADA paratransit costs,

- In FY18, when ADA costs could easily be tracked to the addition of Sunday ADA service, it was billed to the Wake Transit Plan.
- FY19 ADA costs reflect the addition of routes in southeast and northwest Raleigh, as well as some additional costs not explicitly specified.
- In FY20 and FY21, GoRaleigh adjusted costs it billed to Wake Transit Plan funds to account demand and experience in the field.

Figure 4 GoRaleigh Fixed Route and ADA Budgets and Reimbursements FY18 - FY22

Mode/Year	FY18	FY19	FY20	FY21	FY22				
Work Plan budgeting method	Combined	Combined	Project-based	ADA/fixed separate	ADA/fixed separate				
Budgets									
Fixed route budget	N/A	N/A	\$13,612,492	\$10,844,012	\$10,514,774				
ADA budget	N/A	N/A	\$1,563,457	\$1,247,999	\$1,477,885				
Combined budget	\$1,550,920	\$7,123,875	\$15,175,949	\$12,092,011	\$11,992,659				
ADA percentage of FR budget	N/A	N/A	11.5%	11.5%	14.1%				
Reimbursements f	rom Wake Transit	Plan							
Reimbursed fixed route	\$1,279,511	\$5,015,851	\$6,700,241	\$7,662,647	TBD				
Reimbursed ADA	\$271,409	\$440,754	\$1,378,490	\$1,083,679	TBD				
Total Reimbursed	\$1,550,920	\$5,456,605	\$8,078,731	\$8,746,326	TBD				
ADA percentage of FR budget	21.2%	8.8%	20.6%	14.1%	N/A				

Source: Adopted work plans, GoTriangle, GoRaleigh

Note: although not specified in the FY18 and FY19 Adopted Work Plans, GoRaleigh separately provided ADA budget amounts, which are shown in the table.

GoTriangle

As the provider of regional fixed-route transit service, GoTriangle provides regional ADA trips. Compared with other transit providers in Wake County, GoTriangle's ADA trips are longer distance and more expensive to deliver. Between 2019 and 2021, GoTriangle ADA costs were roughly 20% of fixed route costs⁴ (see Appendix A for additional background and data sources).

⁴ National Transit Database

GoTriangle expanded their fixed route services each year between FY18 and FY22. Wake Transit Plan budgets also include funding to cover the costs of expanded ADA services. The amounts budgeted, however, range considerably from 6.3% in FY20 to 10.8% in FY22 (see Figure 5).

GoTriangle has requested reimbursements for costs associated with fixed route service expansion, but not ADA service.

Figure 5 GoTriangle Fixed Route ADA Budgets and Reimbursements FY18 – FY22

Mode/Year	FY18	FY19	FY20	FY21	FY22
Work Plan budgeting method	Combined	Combined	Project-based	ADA/fixed separate	ADA/fixed separate
GoTriangle Budgete	d Funding from \	Wake Transit Plan			
Fixed route budget	N/A	N/A	\$2,422,837	\$3,405,704	\$4,344,213
ADA budget	N/A	N/A	\$152,902	\$187,285	\$468,385
Combined ADA and fixed-route budget	\$1,749,590	\$2,071,419	\$2,728,641	\$3,672,989	\$4,812,598
ADA percentage of FR budget	N/A	N/A	6.3%	5.4%	10.8%
Reimbursements					
FR reimbursed	N/A	N/A	N/A	\$2,267,868	TBD
ADA reimbursed	N/A	N/A	N/A	N/A	TBD
Total Reimbursed	\$1,494,580	\$1,940,842	\$2,068,929	\$2,267,868	TBD

Source: Adopted work plans, GoTriangle; N/A – not available

3 ADA Funding Policy

The ADA Funding Policy is designed to clarify and layout a process for budgeting and reimbursing costs associated with providing ADA paratransit services related to expansion and growth of Wake Transit Plan funded fixed-route transit investments. Direction from the Wake Transit Plan Working Group specified that the recommended policy should be simple, easy to understand, easy to administer, and ideally reward efficient operations.

METHODS DEVELOPED AND EVALUATED

The consultant team investigated three methods for budgeting and reimbursing ADA paratransit costs. These methods reflect direction provided by the Working Group as well as existing conditions, provider feedback, and available data. The methods were selected to reflect increased ADA costs attributable to fixed-route expansion and not ADA cost growth that occurs over time regardless of fixed-route system expansion. ADA cost growth unrelated to fixed-route expansion is typical, primarily due to inflationary pressures (i.e., wages, benefits, and fuel costs).

The three potential methods include (see also Figure 6):

- 1. A ridership growth analysis that relies on spatial analysis to attempt to identify ADA paratransit trip growth associated with specific Wake Transit Plan investments.
- A ridership and cost-trend analysis using data from prior years to develop a baseline of ADA costs and use increases above this baseline to estimate costs attributable to Wake Transit Plan investments.
- A budget and reimbursement analysis that uses spending on fixed-route service as a proxy for ADA costs.

Figure 6 Summary of Methods Considered for Attributing ADA Costs to Wake Transit Plan

Method	Description	Summary of Findings
Spatial Analysis	Identify where services have been added. Measure the addition of new riders traveling from/to these newly served areas or benefitting from stronger connections to key parts of the transit network.	This method was not pursued because not enough time has elapsed since routes were implemented and data was not available on growth in new riders or increased travel within areas of new service.
Ridership and Cost Trend Analysis	Evaluate historical data on trips provided, operating expenses, productivity, and other metrics and use trends to forecast future demand.	Clear patterns did not emerge from provider reports or from FTA National Transit Database (NTD) data. The pandemic is partly to blame for this lack of clarity.

Method	Description	Summary of Findings
Budget and Reimbursement Analysis Based on Fixed-Route	Ties growth in ADA costs to growth in fixed-route costs and compares budgets and reimbursements to identify trends.	This method is recommended, focusing on ADA as a percentage – or ratio - of fixed-route costs.

SPATIAL ANALYSIS

Overview

One way to account for ADA trip costs is to identify places where new or more frequent bus service is added and assign trips in the travel shed to the Wake Transit Plan. Indeed, this was one of the earlier techniques used to estimate ADA costs attributed to the Wake Transit Plan.

With new ADA service areas mapped, this approach looks to identify important destinations (e.g., medical and shopping) that would be served by new routes as well as people living in newly served areas. In addition to considering the uses within these zones, the method evaluates registered riders whose addresses fall within 3/4 mile of new bus routes.

A key benefit of this approach is the ability to see changes directly attributable to service being added where no fixed-route service previously operated. In places where service spans are increasing, or where stronger connections are provided, a related potential measure is increased travel. To use this approach, reliable data on registered riders and their travel patterns is required. In other words, if more people are applying for ADA paratransit eligibility or previously eligible riders are traveling more frequently or to new areas, trends associated with fixed-route expansion would emerge.

A key challenge of this approach is the need to evaluate the origins and destinations of individual trips and to evaluate these locations spatially to determine whether the trip is due to new or expanded service. Further, as the Wake Transit Plan is implemented, the addition of new routes, increased frequencies and longer spans of service will continue to improve regional mobility by strengthening connections. For those residing in or traveling to newly served areas, access to ADA within ¾ mile of new fixed routes should lead to growth in ADA travel.

Application of Approach

The team requested data on location-based travel and the number of newly eligible riders from each provider. We used this information to "test" the approach and evaluate how well the approach reflected the experiences of each operator.

- GoRaleigh provided data for a single month across 2017–2020 including top destinations served by address and zip code. This is useful information to compare trends but did not show any commonalities between destinations and zip codes. The data on certifications was presented for a single year.
- GoTriangle provided the geographic location of registered riders along with service detailed and cost statistics by month. This information enabled analysis of ridership trends but did not include information on new rider growth or trends in individual rider travel.

GoCary provided tracking data on annual growth in registered riders from 2016–2021.
They also provided detailed information on pickup and drop-off addresses of all trips
provided by the client. This information would prove useful for a spatial analysis, but
GoCary had not implemented any expansion of service until 2021 and not enough time
had passed for meaningful analysis.

Evaluating the data showed that it is not technically expedient or efficient. The data readily available from the operators was not sufficiently detailed to estimate increased demand for ADA trips or the cost of providing those trips. In addition, not enough time passed between implementation of new or expanded fixed-route services to identify clear trends, particularly due to ridership declines once the pandemic began in March 2020. As a result, the team does not recommend pursuing this strategy to estimate ADA demand or costs:

- The availability of data from each of the three providers and the relatively short time that
 has elapsed between initiation of expanded fixed-route services and the onset of the
 pandemic. Future ADA funding policy modifications could consider a spatial approach,
 particularly for providers that can readily track this data.
- As time passes, the integration of Wake Transit Plan funded services into the existing network will make it harder to determine how to assign costs.
- Providers that have access to trend data that can attribute ADA cost growth to fixed-route service expansion can provide such documentation as the basis for seeking higher than budgeted ADA reimbursements.

RIDERSHIP AND COST TREND ANALYSIS

Overview

Another method for budgeting and reimbursing costs is to establish a baseline of ADA costs and attribute additional ADA costs to the Wake Transit Plan. The approach is intuitively appealing, because it allocates increased activity (either new trips or costs above a baseline amount) to increased growth and development of funded Wake Transit Plan investments.

Application of Approach

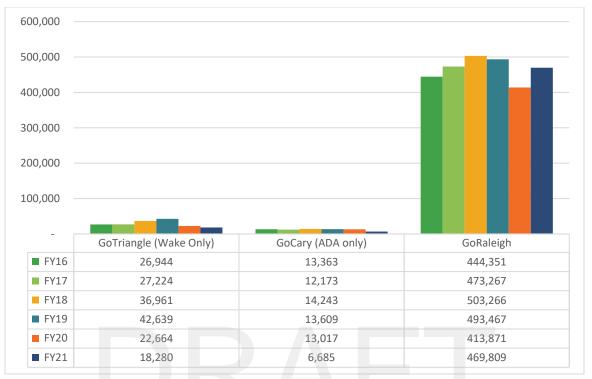
As mentioned, for each potential method of estimating ADA demand and costs, the team tested the approach to determine how well it would replicate the experiences of each operator.

The Wake Bus Plan team needed to establish a baseline, which could either be the number of ADA trips or the costs of providing ADA service. The team used data available from the Federal Transit Administration (FTA) National Transit Database (NTD) to understand ADA ridership, cost, and productivity. The data was isolated to include GoTriangle ADA trips made within Wake County and to limit GoCary's demand response service to ADA trips only.

The data shows COVID had a negative impact on ADA demand and costs; providers provided fewer trips in FY20 compared with previous years. There are no clear costs and ridership trends over the four-year period. Ridership data indicates that while GoTriangle has showed clear, steady growth in ADA paratransit trips, GoCary's demand has been flat and GoRaleigh's demand for ADA first increased and then decreased (even before COVID) (see Figure 7). Cost data shows year-on-year growth for all three providers. The rate of growth is not consistent, making

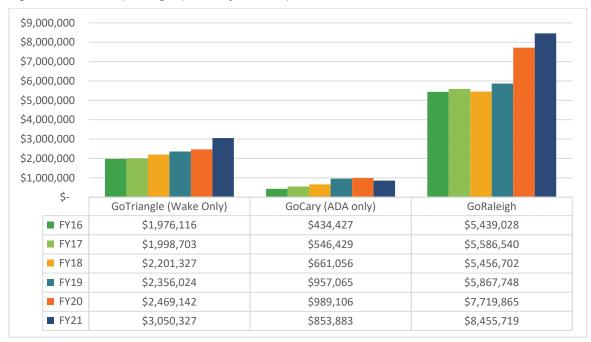
the reimbursement stream uneven and suggesting it would require annual adjustments (see Figure 8).

Figure 7 ADA Trips Provided (FY16 – FY21)



Source: NTD Note: GoTriangle data adjusted for Wake County service; GoCary data is adjusted for ADA only

Figure 8 ADA Operating Expenses by Transit Operator (FY16 – FY21)



Source: NTD Note: GoTriangle data adjusted for Wake County service; GoCary data is adjusted for ADA only

A comparison of total ADA operating expenses over the baseline year (FY16) using NTD data (see Figure 9) shows year on year growth for GoTriangle and GoCary. ADA reimbursement data for these years is not available since it was either combined with fixed route reimbursements or not requested. GoRaleigh's costs and reimbursements vary, meaning that clear patterns or trends could not be isolated to support this method.

Figure 9 Total ADA Expenses (Baseline (FY16) to FY21) from NTD and Reimbursements

Provider/Category	FY16	FY17	FY18	FY19	FY20	FY21
GoTriangle (NTD)	\$1,976,116	\$1,998,703	\$2,201,327	\$2,356,024	\$2,469,142	\$3,050,237
Baseline	\$1,976,116					
Amount over baseline		\$22,587	\$225,211	\$379,908	\$493,026	\$1,074,210
Amount reimbursed	N/A	N/A	N/A	N/A	N/A	
Difference	N/A	N/A	N/A	N/A	N/A	
Go Raleigh (NTD)	\$5,439,028	\$5,586,540	\$5,456,702	\$5,867,148	\$7,719,865	\$8,455,719
Baseline	\$5,439,028					
Amount over baseline		\$147,512	\$17,674	\$428,120	\$2,280,837	\$3,016,691
Amount reimbursed	N/A	N/A	\$271,408	\$441,754	\$1,378,490	\$1,083,679
Difference	N/A	N/A	\$(253,734)	\$(13,634)	\$902,347	\$1,933,012
GoCary (NTD)	\$443,427	\$546,429	\$661,056	\$951,065	\$989,106	\$853,889
Baseline	\$443,427					
Amount over baseline		\$103,002	\$217,629	\$507,638	\$545,679	\$419,462
Amount reimbursed	N/A	N/A	N/A	N/A	N/A	\$125,000
Difference	N/A	N/A	N/A	N/A	N/A	\$294,462

Sources: FTA NTD data, GoTriangle, GoRaleigh

Notes: GoTriangle NTD data adjusted for Wake County service (65% of all Access costs); GoCary data is ADA only (33% of all demand-response service)

ADA reimbursements for several years of data were not separately available for GoCary or GoTriangle; first year of ADA reimbursements was FY18.

The team reviewed and analyzed other potential metrics that track ADA demand and costs and could be used as a baseline such as ADA cost as a percent of fixed route, cost per hour, cost per trip, and trips per revenue vehicle hour. Similar difficulties arose with considering other metrics, namely trends are not consistent within or across providers. Further, while the increases over the baseline work for a reimbursement policy, it is not helpful in estimating an amount to be included in work plan budgets (e.g., future costs).

While the approach was compelling and offered a simple, straightforward way to reimburse costs, the lack of robust, comparable data to create a baseline undermined any potential advantages.

Further, the inability to use the baseline approach to estimate future costs suggests that this is not the recommended approach.

ADA COSTS AS PERCENTAGE OF FIXED ROUTE

Overview

A third potential method is to budget ADA costs as a percentage of fixed route costs. This is an appealing approach because:

- It is simple and straightforward. It potentially allows transit agencies to be treated equally.
- It can be used to budget for future costs as well as a broad tool for reimbursing transit agency costs.
- It is consistent with the past few Wake Transit Plan budgeting approaches, where ADA
 was estimated as a percentage of spending on fixed routes. This approach has also
 generally worked since it has set aside enough resources to pay for agency costs
 associated with ADA service.
- ADA costs can be set in line with total fixed route spending, so that as agencies spend more money on fixed route services, they have larger budgets for ADA service.

Application of Approach

The team initially considered recommending setting aside 10% of fixed route service costs for ADA funding. This amount was used in the past and historically has been sufficient to cover reimbursements. However, the data shows that <u>systemwide</u> ADA costs are between 15% and 25% of fixed route costs (i.e., for every \$1.00 spent on fixed route service, operators spend between \$0.15 and \$0.25 on ADA service). While the marginal cost of ADA costs associated with service expansion will be lower than for the system overall, 10% was too conservative especially given wage and fuel increases experienced by operators in the past several years.

The Wake Bus team evaluated the potential of using 15% as the amount for budgeting and reimbursement purposes, considering both how well the 15% set aside would have matched with amounts allocated in the Wake Transit Plan and requested for reimbursement. The analysis suggests that the flat 15% would be higher than the amount included in the Annual Work Plan for both GoTriangle and GoCary. The amount allocated for GoRaleigh, however, was closer, adding roughly \$100,000 to the budgeted amount.

Despite overestimating the historical budgets and reimbursements, this approach has some technical merits, namely:

- Data for the past few years shows that GoCary, GoRaleigh and GoTriangle spend between 15% and 25% on ADA service as a portion of fixed route service.
- The marginal cost of Wake Transit Plan investment in fixed route service is expected to be less than 20% and 25% because investments have been associated with increased hours of operation and frequency of service, which will lead to lower levels of ADA demand due to increased access to fixed route services. Even assuming lower marginal costs, the data suggests that the Wake Transit Plan may have been underestimating the increased costs associated with ADA service.

- As new bus routes are added and the network expands overall, the usefulness of ADA will increase and encourage more trips by more riders.
- Using a 15% standard or benchmark is easily understandable for transit operators, stakeholders, and members of the public. It is also traceable such that if reimbursements increase dramatically, they can be compared with systemwide spending on ADA to ensure transit operators are not shifting ADA costs associated with the existing system to the Wake Transit Plan.

An important caveat to estimating costs and permitting reimbursements based on a portion of fixed route service is limited accountability between funding and service delivery, including service efficiency. For many transit operators, the cost of providing each trip has significantly outpaced demand, meaning transit operators are spending more to provide less service. While service and cost efficiency are an important consideration, given historic challenges with budgeting and reimbursements, our recommendation is to use the Service Guidelines and Performance Measures to monitor efficiency and keep the costing and reimbursements straightforward.

Based on these findings and recommendations, the Wake Bus Plan team recommends budgeting and reimbursing ADA costs at a rate of 15% of the costs of fixed route service. This means for example, if a transit operator spends \$1.00 to implement Wake Transit Plan funded fixed route service, they should be reimbursed \$0.15.

Figure 8 Comparison of Budgeted Wake Transit Plan ADA Costs vs. Possible 15% allocation FY22

	GoTriangle	GoCary	GoRaleigh	Total
Fixed Route Service Budgets (Increased Service Funded by Wake Transit Plan)	\$4,464,213	\$2,003,614	\$10,514,774	\$16,982,601
Amount Budgeted for Increased ADA Costs	\$348,385	\$132,360	\$1,477,855	\$1,958,630
15% ADA allocation (Hypothetical)	\$669,632	\$300,542	\$1,577,216	\$2,547,390
Difference (Amount Budgeted Compared with Proposed Allocation)	\$321,247	\$166,182	\$99,331	\$588,760

Sources: FY21 and FY22 Adopted Wake Transit Work Plans, Nelson\Nygaard analysis (rounded to nearest \$100,000)

4 Recommendations

The Nelson\Nygaard team offers several recommendations for budgeting, reimbursements, ADA eligibility, and needs for future data that will simplify the process for future work plans, lead to better policies, and address growth in ADA demand.

BUDGETING ADA COSTS

Budget ADA at 15% of fixed route costs.

The ADA funding policy recommends the Wake Transit Plan creates a 15% set aside for ADA paratransit costs representing 15% of the fixed-route budget for each provider. The team recommends this approach because it is simple and straightforward and strikes an appropriate balance between ensuring an appropriate amount is set aside so ADA costs can be reimbursed and not restricting funds needed for other Wake Transit Plan investments.

The 15% set aside should be based on the costs associated with Wake Transit Plan-funded fixed route transit services, so that as the costs of the bus network increase, so do resources for ADA paratransit services.

The 15% set aside be used for budgeting purposes as early as the FY24 Annual Work Program.

REIMBURSING ADA COSTS

As discussed, the ADA funding policy set out to recommend an approach for both budgeting and reimbursing ADA paratransit costs.

Reimburse ADA costs at 15% of fixed route costs.

The ADA funding policy recommends that individual transit providers should request reimbursements from the Wake Transit Plan for 15% of fixed route costs. This reimbursement may be requested without requiring justification beyond proof of implementing fixed route service.

Using a percentage of fixed route costs indirectly rewards efficiencies by capping the rate of reimbursements and rewarding agencies who can provide service for less than that amount. Further, service efficiency and cost effectiveness will be monitored in the Wake Transit Plan Service Guidelines and Performance Measures.

The flat 15% rate could be used for reimbursements as early as FY24.

Reimbursements Over 15%

The ADA funding policy recommends that individual transit providers may request reimbursement for costs incurred beyond 15% if they are able to provide justification for the additional costs. The method each provider uses should reflect access to internal data and be consistently applied each year. Examples include increases in the number of eligible riders, increased trips taken per rider, or higher service delivery costs that are greater than previous trends.

If a request for reimbursement is more than 15%, the provider must request approval by TPAC. Upon approval by TPAC, the Tax District Administration may authorize the release of funding to the requestor.

SUPPORTING RECOMMENDATIONS

Include ADA in Service Guidelines and Performance Measures

The cost of providing ADA paratransit service has increased between FY16 and FY21. Some of the cost increases reflect inflationary pressures on driver wages and fuel costs, the suspension of fares as well as changes in how riders use the service. As mentioned, using a ratio of 15% for reimbursements puts a cap on the amount of funds available to provide the service and incentivizing agencies who can deliver service for less than that amount.

At the same time, the ADA funding policy also recommends using the Wake Bus Plan Service Guidelines and Performance Measures to track and monitor the cost efficiency and service effectiveness of ADA services by transit agency.

ADA Paratransit Eligibility and Access to Bus Stops

ADA paratransit is intended to serve as a safety net for individuals who, because of their functional disabilities, cannot travel to/from or ride fixed-route transit. In fact, the DOT ADA regulations require transit agencies to "strictly limit" ADA paratransit eligibility to individuals who meet the regulatory criteria for eligibility. This involves having a robust and consistently applied eligibility determination process, and for those who can use fixed-route service under certain circumstances, designing and then applying travel rules that encourage rides to travel on fixed-route service when they are able. As an outgrowth of the adopted Coordinated Public Transit-Human Services Transportation Plan, the region's transit providers are working to create a consistent framework for Wake County's ADA services and to coordinate the management and delivery of ADA services. This vehicle should also be used to develop consistent data metrics that can be used for the WTP ADA funding.

In addition, as part this project's capital planning task, the team is identifying priority locations to improve access to transit. Implementing sidewalk and curb ramp improvements will of course help all individuals who walk or roll along these corridors. It will also help encourage individuals with disabilities who can ride a fixed-route bus to do so instead of having to reserve paratransit trips in advance.

ADA Data Tracking and Reporting

Better data is needed to measure changes in ADA demand associated with fixed-route service expansion attributable to Wake Transit Plan. While each provider compiles service data for the

Federal Transit Administration's National Transit Database (NTD), and each has access to additional data, the work completed for this task has shown that it is difficult to discern patterns in ridership growth. Some of the challenges are inherent to the variability in demand, other factors that contribute to growth such as the rapid growth in regional population, and the way that paratransit is operated, including fare policies. Further, current challenges in hiring and retaining drivers have driven costs higher.

Tracking Growth in ADA Riders

The team recommends dedicating ADA staff resources to tracking the number of ADA-eligible riders by provider and working to attribute growth to WTP implementation vs. organic growth. This requires research into each provider's rider database to confirm which riders have traveled within a certain period and designating such riders as active. This can be done in conjunction with a periodic recertification process (typically every three years). Having a registry of active riders can serve as a baseline for tracking both the growth in the number of registered riders and the number of trips each rider takes.

It is important to note that some riders are registered with more than one provider, particularly if they make regional trips. For the WPT, it is also important to track those riders who travel within Wake County and whose travel is within 3/4 mile of a fixed-bus route.



Appendix A Provider Overview

GoTriangle, GoCary, and GoRaleigh each provided historical service data as well as information on ADA ridership growth. The Nelson\Nygaard team analyzed the growth data but could not find clear patterns or trends that linked changes in ADA ridership with investments in the Wake Transit Plan. Analysis of the provided data did not offer conclusive information that could support analysis of the ridership growth impacts associated with bus plan implementation. The following is a summary of each provider's service delivery model and the information provided by each agency along with a summary of their service delivery.

GoTriangle

As the regional transit service provider, GoTriangle operates a combination of commuter oriented and all-day services that connect regional destinations. GoTriangle's ADA services, therefore, tend to be longer and carry riders across jurisdictional boundaries.

ADA Service Delivery Model

- GoTriangle directly operates its ADA service. The service area includes Wake, Durham, and Orange counties.
- GoTriangle works with GoRaleigh and GoDurham to coordinate regional trips beyond its own required ADA service area to avoid riders having to transfer between providers. ADA service coordination will be expanded to include GoCary and Chapel Hill.

Data Provided

- Registered riders (current year)
- Trips by average day of week (weekday, Saturday, and Sunday) by month (FY16–FY21))
- Service costs, revenue hours, mileage, etc. (FY16–FY20)
- Unique trips by rider (FY16–FY21)
- Cost per rider per year (FY16- FY21)

GoCary

GoCary operates eight fixed-route transit routes, which operate within the Towns of Cary, Apex, and Morrisville. GoCary also offers demand response transit services for riders aged 60 or older and comingles demand response trips with ADA trips.

Delivery Model

- The service is operated under contract with MV Transportation.
- ADA trips are provided anywhere within the Town of Cary, even if beyond the ¾-mile minimum ADA requirement. However, these trips outside of the ¾-mile area are subject to additional fares.
- Demand-response services are also provided to residents 60+, regardless of functional ability.

Data Provided

- Active ADA clients and annual growth (prior to FY16, FY16–FY21)
- Active senior (non-ADA) clients
- ADA recertifications
- Daily trips, revenue hours, revenue miles
- Operating expenses
- Top 20 destinations

GoRaleigh

GoRaleigh operates the largest network of fixed route transit services in Wake County with 27 fixed routes. GoRaleigh also operates five regional/express routes in partnership with GoTriangle.

Delivery Model

• The service is operated under contract with MV Transportation and supplemented through subcontracts with local taxicab companies.

Data Provided

- Cost per trip for three October sample months (2018–2020)
- Trips provided in five October sample months (2016–2020)
- Top destinations served by year (2016–2020)
- New rider certifications by month in 2020
- Annual ADA WTP billings (FY18–FY20)

Figure A-1 Annual ADA Allocation Using 10% of Fixed Route in \$Million (FY21-FY30) and Budgeted ADA Reserve

	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30
GoTriangle										
Total fixed route operating budget	\$3.49	\$4.34	\$4.47	\$4.60	\$6.37	\$6.55	\$4.32	\$2.01	\$2.75	\$3.06
10% ADA allocation	\$0.35	\$0.43	\$0.45	\$0.46	\$0.64	\$0.65	\$0.43	\$0.20	\$0.27	\$0.31
Budgeted ADA	\$0.19	\$0.47	\$0.48	\$0.49	\$0.29	\$0.29	\$0.30	\$0.31	\$0.31	\$0.32
Difference	\$0.16	\$(0.03)	\$(0.03)	\$(0.03)	\$0.35	\$0.36	\$0.13	\$(0.11)	\$(0.04)	\$(0.02)
GoCary										
Total fixed route operating budget	\$1.82	\$2.00	\$3.72	\$3.82	\$3.91	\$4.01	\$4.11	\$4.21	\$4.32	\$4.43
10% ADA allocation	\$0.18	\$0.20	\$0.37	\$0.38	\$0.39	\$0.40	\$0.41	\$0.42	\$0.43	\$0.44
Budgeted ADA	\$0.13	\$0.13	\$0.14	\$0.14	\$0.14	\$0.15	\$0.15	\$0.15	\$0.16	\$0.16
Difference	\$0.06	\$0.07	\$0.24	\$0.24	\$0.25	\$0.25	\$0.26	\$0.27	\$0.27	\$0.28
GoRaleigh										
Total fixed route operating budget	\$10.84	\$10.51	\$12.61	\$13.03	\$12.85	\$16.40	\$20.84	\$23.87	\$25.57	\$26.56
10% ADA allocation	\$1.08	\$1.05	\$1.26	\$1.30	\$1.28	\$1.64	\$2.08	\$2.39	\$2.56	\$2.66
Budgeted ADA	\$1.25	\$1.48	\$1.51	\$1.55	\$1.59	\$1.63	\$1.67	\$1.71	\$1.76	\$1.80
Difference	\$(0.16)	\$(0.43)	\$(0.25)	\$(0.25)	\$(0.31)	\$0.01	\$0.41	\$0.67	\$0.80	\$0.86
Total										
Total fixed route operating budget	\$16.15	\$16.86	\$20.80	\$21.44	\$23.13	\$26.96	\$29.28	\$30.09	\$32.64	\$34.04
10% ADA allocation	\$1.61	\$1.69	\$2.08	\$2.14	\$2.31	\$2.70	\$2.93	\$3.01	\$3.26	\$3.40
Budgeted ADA	\$1.56	\$2.08	\$2.13	\$2.18	\$2.02	\$2.07	\$2.12	\$2.17	\$2.23	\$2.28
Difference	\$0.05	\$(0.39)	\$(0.05)	\$(0.04)	\$0.29	\$0.63	\$0.81	\$0.83	\$1.03	\$1.12
Currently budgeted ADA reserve	N/A	N/A	\$1.03	\$1.31	\$1.63	\$2.75	\$3.65	\$4.64	\$5.66	\$6.39

Source: FY22 Adopted Wake Transit Work Plan, Nelson\Nygaard analysis

Engagement Summary Report Section for ADA Funding Policy Public Review Draft

Appendix A: Engagement Summary Report

As part of the FY2025-2030 Wake Bus Plan development process, community stakeholders, a core technical team and program staff reviewed the previously adopted ADA Funding Policy, which

- 1. Establishes a process for budgeting ADA related expenses in the Wake Transit financial model, and
- 2. Establishes a process for reimbursing ADA expenses associated with Wake Transit implementation.

Complimentary ADA/Paratransit services are federally required to ensure that individuals who are unable to ride on or get to and from general transit stops and stations, will still have access to transportation services. There are many guidelines that transit operators follow to meet the federal standards for these services. It was noted that ADA service costs are variable.

ADA costs will adjust based on fixed route service. As routes expand or operate longer hours, or more days, there may be more demand for ADA service. Other factors that influence ADA demand include overall population, poverty rates and the strength of the overall network.

After evaluating several possible options to budget and reimburse future ADA expenditures, the recommended path forward is to aet aside an amount equal to 15% of Wake Transit's annual fixed route budget for each provider, to be used for ADA reimbursement. It was also determined that projects funded as part of the Community Funding Area Program would not fall under these policy guidelines and instead will remain reimbursed through their CFAP budget allocations.

The draft Wake Bus Plan: ADA Funding Policy, incorporating those recommended policy changes, was recommended by the TPAC's Program Development Subcommittee on October 24, 2023. It is being released, along with an update to the Wake Bus Plan: Service Standards and Performance Guidelines, for a 14-day public review and comment period from November 6th-November 20th, 2023. This engagement effort is being conducted in accordance with the Wake Transit Community Engagement Policy.

Members of the community can visit https://www.goforwardnc.org/wake-county/get-involved/ to view documents available for public review and other Wake Transit-related outreach and communications activities. On that page, you can submit questions and comments to the planning team as well as sign up to receive emails for future Wake Transit program updates and activities.

This section, Engagement Summary Report, will be updated with information and comments collected during the public review period to be provided to the CAMPO and GoTriangle governing boards prior to their consideration for adoption.

WAKE BUS PLAN: Service Standards and Performance Guidelines

WAKE BUS PLAN: Service Standards and Performance Guidelines draft was recommended by the TPAC Program Development Subcommittee on October 24, 2023. Public engagement was conducted from November 6-20, 2023. TPAC consideration is scheduled on December 13, 2023, with Wake Transit governing board consideration anticipated to occur in January 2024.

Once adopted, the updated standards and performance metrics will be used in the summer of 2024 to conduct the annual Bus Service Performance Review.



Wake Transit Plan - Wake Transit Bus Plan

Table of Contents

		Page
1	Overview	2
2	Transit Service Policies, Design Principles and Best Practices	5
3	Service Level Standards	13
4	Performance Measures	19
5	Measuring Customer Satisfaction	25
.	.l.l. of Finance	
Ia	ıble of Figures	Page
Fia	gure 1 Transit Supportive Population and Employment Densities	•
_	gure 2 Productivity Model and Coverage Services	
_	gure 3 Transit Service Types in the Wake Transit Bus Plan	
_	gure 4 Minimum Span of Service (Hours of the Day)	
•	gure 5 Minimum Service Frequency (Frequency in Minutes)	
_	gure 6 Average Vehicle Loading Maximums	
	gure 8 Industry Standard Bus Stop Spacing Standards	
	gure 9 Bus Stop and Transit Station Types	
_	gure 14 Minimum Productivity Levels	
-	gure 15 Operating Cost per Boarding	
Fig	gure 18 Onboard Customer Satisfaction Survey (20238 GoCary)	26
	gure 16 Wake County Transit Provider Policy Guidelines	
Fig	gure 13 Wake County Transit Providers and Peer Systems – Fixed Route Service Statistic (2021)(2021)	
Fig	gure 14 Wake County Transit Providers and Peer Systems – Fixed Route Operating Statistics (2021)	35
Fig	gure 15 Wake County Transit Providers and Peer Systems – Demand-Response and ADA Paratransit Statistics (2021)	

Figure 16 | Performance Standards Reported by Aspirational Peers.......37

1 Overview

Introduction

In 2016, Wake County residents voted to fund the Wake Transit Plan. The Wake Transit Plan recommended a variety of transit services designed to link communities in Wake County and the surrounding region. It also included a range of solutions from high-capacity services, such as frequent bus routes, to lower capacity options, such as demand-response services. As part of investing in and growing the transit network, the Wake Transit Plan assured voters that their tax resources would be invested prudently and sustainably. The Wake Transit Plan Service Design Guidelines and Performance Measures are designed to help the Wake Transit Plan meet balance the two goals of implementing the Wake Transit Plan and maintaining financial sustainability.

The Wake Transit Plan Service Guidelines and Performance Measures establish a framework and rationale for the operation and investment in transit services in Wake County. Service design guidelines set consistent standards by service type, so that similar types of service are implemented the same way across the county, so riders can trust that services will be available when they need them. Performance measures track and report on the productivity of individual services and the overall network. The combined framework is intended to communicate a clear, consistent, and equitable investment strategy that is understandable to the Wake Transit Bus Plan's stakeholders, including transit riders, transit operators, elected officials, and taxpayers.

The service guidelines, route classifications, and performance measures included in this report reflect service operations and development envisioned by the Wake Transit Bus Plan. While the framework is designed to be flexible and accommodate changes, the Transit Planning Advisory Committee (TPAC) recommends that the guidelines, standards, measures, and targets are reviewed at least once every four years to ensure they continue to represent best practices and are successfully guiding development of the Wake Transit Bus Plan. Indeed, this set of Service Guidelines and Performance Measures, adopted in 2023 is an update of the original document produced in 2018.

Wake Transit Plan and Individual Transit Providers

Wake County's transit providers—GoRaleigh, GoTriangle, GoCary, and GoWake Access — have agency specific service guidelines and performance measures that direct their local investments. These locally developed guidelines and measures both shape and communicate development and monitor the performance of transit service funded through local resources. An overview of the existing standards and guidelines used by individual providers is included as **Appendix A**.

The service guidelines and performance measures recommended as part of the Wake Transit Bus Plan consider—but do not entirely replicate—existing local measures and standards. Instead, the Wake Transit Bus Plan guidelines and measures are intended to supplement local policies

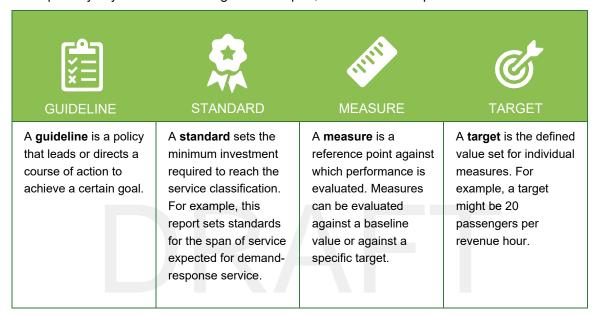
Wake Transit Plan - Wake Transit Bus Plan

and be utilized in parallel with any local measures and standards. The recommended guidelines and measures also reflect best practices developed by transit agencies across the United States.

It is anticipated that the service design guidelines and performance measures will be approved by both the Wake Transit Governing Boards and individual transit providers and be used to govern investments associated with the Wake Transit Bus Plan

Key Terms

To help clarify key terms used throughout the report, below are four important definitions:



Transit Service Guidelines and Performance Measure Goals

Aside from the adage "you can't manage what you don't measure," there are several reasons why service guidelines are critical for transit agencies. Transit service guidelines and performance measures should:

- Reflect the vision and goals of the overall transit network: Transit service guidelines and performance measures reflect community values for transit service. An agency that values extensive geographic coverage above concentrating service in high-demand corridors will adhere to a different set of service guidelines and performance measures than one that focuses on most-efficiently serving demand. There is not a standard or accepted set of service guidelines and performance measures. However, the Wake Transit Bus Plan service guidelines and performance measures are designed to reflect the value of good transit service. Namely service that is efficient, effective, and customer friendly.
- Ensure consistency among Wake County transit service providers: The Wake
 Transit Bus Plan is in a unique position of developing a network of transit services that
 will be implemented by multiple independent operators. Establishing overarching service

Wake Transit Plan - Wake Transit Bus Plan

- guidelines and performance measures that apply to all operators will set baseline expectations for a consistent, integrated, and coordinated network of services.
- Provide transparency: Service guidelines and performance measures provide benchmarks and performance indicators that reflect realistic and appropriate levels of productivity and cost-effectiveness. These indicators track the development of the network and can be shared with elected boards and members of the public. Accordingly, the service guidelines and performance measures must be easy to understand, directly related to network goals, and instill confidence in the stakeholders.
- Establish evaluation criteria for all services: Service guidelines and performance measures include evaluation metrics and tools to shape, define, and evaluate individual transit routes and the emerging transit network. The guidelines will direct attention and investments to specific parts of the network. They will also create a clear, consistent, and equitable framework for decision-making and investment.
- Prioritize funding: By conducting frequent service evaluations, transit providers can identify areas of short-term and ongoing additional funding needs. As an example, longer-term projects such as expanding park-and-ride facilities may not arise in traditional transit guidelines, standards, and measures, but they are critical in ensuring ridership growth if capacity is maximized.
- Support Federal Transit Administration (FTA) compliance: Transit service will be implemented using a combination of local and state funding, as well as FTA federal funding. Transit operators who receive FTA funding are required to adhere to a series of policies and regulations, including requirements associated with Title VI of the Civil Rights Act of 1964. The FTA monitors these requirements through a triennial review process. However, by integrating service guidelines and performance measures into management practices, there is an assurance of compliance. The guidelines, standards, measures, and targets included in this document are consistent with the FTA Circular 4702.1B (Title VI), which includes establishing service guidelines for vehicle loads and headways, on-time performance, service availability, and equitable distribution of transit amenities and vehicle assignments.

2 Transit Service Policies, Design Principles and Best Practices

Overview

Transit service design guidelines are intended to match the product (type of transit service) with the market (who is going to use it). While the entire document describes the transit service policies and design principles that guide implementation of the Wake Transit Plan, this section focuses on the key decisions that create the building blocks for other parts of the process. This includes – for example – the policies and options for allocating service by area and the categorization of service types. These policies lead to Service Design Guidelines (Chapter 3) and the Performance Measures (Chapter 4).

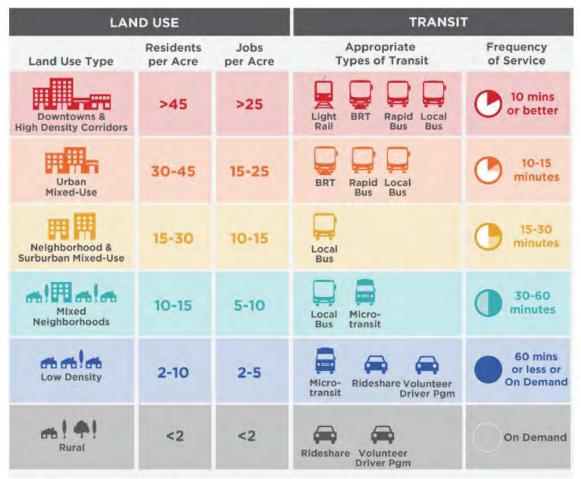
Service Coverage/Availability

Service coverage standards guide the development of new services, not existing services. They are used to evaluate when to provide new services, including the characteristics of any new service, such as the service type and quantity. **The Wake Transit Plan has set a strategic direction for new services, so that transit service will be available to 55% of the population and 81% of the jobs within Wake County.** As of 2021, the Wake Transit Plan was close to meeting these goals and by 2027, the investments project that the plan will meet the goals for residential and job access within $\frac{3}{4}$ of a mile of all day transit service.

In a rapidly growing and urbanized area, like much of Wake County, it is likely that the Wake Transit Plan will need to continue to update bus services to match the underlying markets. Transit market analyses prepared for the Wake Bus Plan in 2023 estimate the need for future services based on population and employment forecasts and available development plans. As mentioned, new bus services should reflect the underlying markets and needs for service and be coordinated with population and employment densities, demographic data and development factors such as the supply and/or cost of parking, traffic conditions, etc. (see Figure 1).

Wake Transit Plan - Wake Transit Bus Plan

Figure 1 | Transit Supportive Population and Employment Densities



Source: Thresholds based on research by Nelson\Nygaard.

Service Allocation

Service allocation guidelines refer to the balance of transit investment between "ridership" and "coverage" oriented service (see Figure 2). Most transit agencies and systems offer a balance between these types of services. Ridership-oriented transit services typically operate in higher-density urban areas; these routes are almost always more resource intensive because they operate frequently, for longer hours of the day and carry higher numbers of riders. Coverage-oriented services operate in rural or lower-density suburban areas; they tend to be less resource intensive but less productive. In some areas a combination of services is appropriate, such as feeder routes or shuttles that provide connections to higher-capacity transit services, like bus rapid transit or light rail (see Figure 2).

Policy guidelines shape how transit investments are allocated between these two types of services. The Wake Transit Plan set a goal for the entire Wake Transit Plan of providing approximately 70% of the Transit Plan's operating dollars to "productivity" services that will be justified by high ridership. For purposes of the Wake Transit Plan ridership or productivity routes, are defined as bus routes that operate every 30 minutes or better. The Plan allocates the

Wake Transit Plan - Wake Transit Bus Plan

remaining 30% to coverage-oriented services. The Wake Bus Plan broadly defines coverage-oriented services as bus routes with frequencies of more than every 30 minutes.

As of 2023, the Wake Transit Plan has made significant progress towards that goal, with the network currently balanced with roughly 55% ridership and 45% coverage-oriented routes. By 2027, the 2023 Wake Bus Plan investments will shift the network to 68% ridership and 32% coverage.

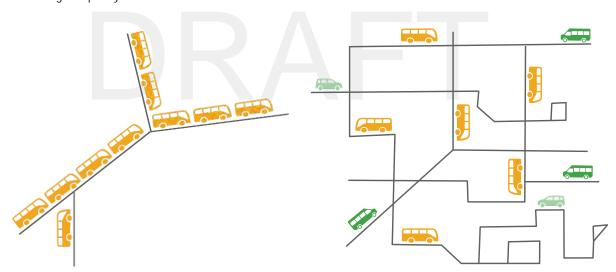
Figure 2 | Productivity Model and Coverage Services

Productivity Services

The productivity model concentrates service on collector streets that serve denser areas with extensive pedestrian infrastructure. Service tends to be more direct, faster, and more productive (i.e., carrying more riders). Productivity oriented bus services tend to assume most people will walk to and from their bus route. Ridership-oriented services tend to feature higher frequencies, operate longer service spans, and carry more riders than coverage-oriented services. Examples include light rail and bus rapid transit, but also high frequency bus corridors.

Coverage Services

The coverage model spreads bus service on more streets and more local services, even if service is less frequent. Coverage services provide nearby access to bus service with shorter walks. Coverage services tend to have lower frequencies and shorter spans of service. They also tend to carry fewer riders, as compared with ridership-oriented services. Examples include community bus routes, microtransit and dial-a-ride.



Transit Service Policies

Transit providers directly control the product and set characteristics such as service quality (cleanliness of the vehicle, reliability of service, friendliness of the driver, etc.), service design (how efficiently the service transports passengers to their desired destinations), and the price of the trip or fare. However, transit agencies have less direct control over their operating

Wake Transit Plan - Wake Transit Bus Plan

environments and many of the most significant factors influencing transit ridership, such as land use, including the number of people within walking distance of a transit route (density); the safety, comfort, and attractiveness of the built environment; the type of development (housing, jobs, shopping, etc.); and the amount and cost of parking.

Density is the largest single factor influencing transit demand, as the number of people within walking distance of a bus route determines the overall demand for travel, or market size. Accordingly, if there are more people living or working within walking distance (e.g., denser development), there are more potential users of the service. Further, because land tends to be more expensive in high-density communities, these areas also feature less parking and are more likely to charge for parking. Land use also shapes transit demand; office space, for example, usually has higher demand on weekdays while shopping areas may have demand on weekdays and weekends. Other critical factors influencing transit ridership are parking (limited parking and/or parking fees make transit relatively more attractive and pedestrian facilities, like sidewalks, crosswalks, and manageable street crossings.

The context of transportation and land use helps orient two of the building blocks that shape the service guidelines and performance standards: service allocation and route classifications.

Route Classifications

Wake County is a large and diverse region. Consequently, the Wake Transit Plan consists of a variety of services, including high productivity/high-capacity services (frequent transit) to lower productivity, coverage-oriented services (local bus routes or demand-response services). Given different types of service require different levels of investment and have different operating expectations, the Wake Bus Plan uses a route classification system to categorize service types and set standards based on classifications. The classification system also facilitates investment and development of individual routes, by allowing individual routes to move up and down the classification hierarchy. This means that a route that over-performs the expectations for its classification category, could be "upgraded" with additional investment in service hours and frequency if it can meet the defined performance expectations.

In 2023, the Wake Bus Plan updated the classifications of bus routes funded by the Wake Transit Bus Plan: frequent routes; local routes; community routes; microtransit services; demand-response services; all-day regional routes; and peak-only routes. (Figure 3). Each service type is linked with service level guidelines and productivity measures outlined in subsequent sections. Bus routes included in the 2023 Wake Bus Plan are classified and listed in Appendix B.

Transit service design principles generally discourage route branches and service deviations because they complicate rather than simplify service. As a result, branches and deviations should be justified based on ridership or coverage goals and be judged according to the same standards as other similar routes when they are required.

Wake Transit Plan - Wake Transit Bus Plan

Figure 3 | Transit Service Types in the Wake Transit Bus Plan

Service	e Type	Characteristics
Ö	Frequent Routes	Frequent routes are high-capacity, high productivity services that should operate along densely developed primary arterials with 15-minute or better headways during the day on weekdays. They form the "backbone" of the service network and provide connections to network hubs. Most other routes will connect to them, and routes should be simple and direct.
Q Q	Local Routes	Local routes also operate along primary arterials, but in areas of less dense development patterns. They also typically are anchored at a transit hub, either downtown or at the end of a frequent route or BRT. These routes offer relatively frequent, simple, and direct service, usually within neighborhoods or between local destinations. Routes are typically productive with moderate to strong ridership.
•	Community Routes	Community routes serve low-density communities and neighborhoods, providing local connections or bringing passengers to transit hubs or higher capacity services. Community routes are exclusively focused on widening geographic service coverage, or "filling in the gaps" of the transit network. Productivity is usually low.
	All-Day Regional Routes	All-day regional routes provide longer-distance service connecting the major activity centers across jurisdictions on weekdays and weekends. They provide the backbone of the region's transit network, and prioritize connecting transit centers to facilitate transfers. They have limited stops to provide fast travel times and use freeways and expressways where appropriate.
	Peak-Only Routes	Peak-only routes operate during traditional commuter peak-periods only, designed primarily to bring people from residential areas to employment centers. They make few stops, often at park & ride facilities or transit centers, before traveling non-stop to the employment center via highways or freeways.
0	Microtransit Services	Microtransit is an on-demand service in rural or low-density communities and can be operated directly by the transit agency or contracted with Transportation Network Companies. Services are typically curb-to-curb or door-to-door within a specified zone or based around designated "nodes".
Ê	Demand- Response Services	Demand-response service offers curb-to-curb or door-to-door service upon request. Services are well suited for serving low-density areas and can be provided by a range of providers, from traditional transit agencies to app-based ride-hailing providers. Demand-response service includes ADA paratransit service, which operates under specific FTA guidelines, serving individuals with disabilities and older adults

Transit Service Design Guidelines

While "good" bus routes can look different depending on their role or function within the network, they should all be relatively simple for both existing and new riders to understand. They should also be coordinated within the large system or route to facilitate transfer and access. The following section highlights best practices and service design guidelines to help service providers develop a network of logical, consistent, and user-friendly services.

Transit is best supported by mixed uses and density.

Bus routes are more efficient when they serve areas of high transit demand, or areas where people live (i.e., residential density) and work (i.e., employment density). While density of jobs or residents are good indicators of transit demand, a mix of land use in the same areas can produce even more demand and either alone. Mixed use areas create a steady demand for transit throughout the day and evening. Other transit-supportive land uses include commercial and institutional areas, which attract large numbers of employees, patrons, and guides.

Service Should be Simple.

A simple transit route design and simple schedules will attract more riders than a complex transit system. For people to use transit, they must be able to understand it, and simpler services are easier for riders to rely on them.

Routes Should Operate Along a Direct Path.

Routes should be designed to operate as directly as possible to keep travel time lower while maintaining access to key destinations.

The fewer turns a route makes, the easier it is for riders to understand. Conversely, circuitous paths are disorienting and difficult to remember, which can impact the reliability of the route. Direct routes also maximize average speed for the bus and minimize travel time for passengers while maintaining access to service.

Route Deviations Should be Minimized.

As described above, service should be as direct as possible. Consistent with this idea, the use of route deviations—traveling off the most direct route—should be minimized.

There are instances when deviating service from the most direct route is appropriate, such as avoiding a bottleneck or providing service to major shopping centers, employment sites, medical centers, schools, etc. In these cases, the benefits of deviating service from the main route must be weighed against the inconvenience caused to passengers already on board. Route deviations should be implemented only if:

- The deviation will increase the route's overall productivity.
- The number of new passengers served is equal to or greater than 25% of the number of passengers inconvenienced by the additional travel time on any particular deviated trip
- The deviation does not interfere with the provision of regular service frequencies and/or the provision of coordinated service with other routes operating in the same corridor

Wake Transit Plan - Wake Transit Bus Plan

 Pedestrian access to a large trip generator is unsafe due to a lack of infrastructure, or inaccessible due to a dendritic street pattern

In most cases, where route deviations are provided, they should operate for the entire service period. Exceptions are during times when the sites that the route deviations serve have no activity—for example, route deviations to shopping centers do not need to serve those locations early in the morning before employees start commuting to work.

Major Routes Should Operate Along Arterials.

Frequent and local routes should operate on major roadways and should avoid deviations to provide local circulation. Riders and potential transit users typically have a general knowledge of an area's arterial road system and use that knowledge for geographic points of reference. The operation of bus service along arterials makes transit service faster and easier for riders to understand and use. This principle applies only to routes with a productivity-based strategy.

Routes Should be Symmetrical.

Routes should operate along the same alignment in both directions to make it easy for riders to know how to return to their trip origin location. For example, if a route follows High Street into downtown, it should use High Street on its outbound trip. Exceptions can be made in cases where such operation is not possible due to one-way streets or turn restrictions. In those cases, routes should be designed so that the opposite direction alignments run parallel as closely as possible.

Routes Should Serve Well-Defined Markets.

Service should be developed to serve well-defined markets. Ideally, major corridors should be served by only one route of each service type—for example, one frequent route and one local route, and not by multiple frequent routes or multiple local routes. Exceptions can and should be made when multiple routes should logically operate through the same corridor to unique destinations.

Services Should be Well-Coordinated.

When multiple routes operate through the same corridor but serve different destinations, service should be coordinated to maximize utility and minimize redundancy. To avoid bunching buses and to balance loads, major routes of the same service type using the same corridor should be scheduled to operate at similar frequencies and should alternate trips at even intervals.

Most routes intersect with other routes at transfer centers, stations, and street intersections. At major transfer locations, schedules should be coordinated to the greatest extent possible to minimize connection times for the predominant transfer flows.

Service Should be Consistent.

Routes should operate along consistent alignments and at regular intervals (headways). People can easily remember repeating patterns but have difficulty remembering irregular ones. For example, routes that provide four trips an hour should depart every 15 minutes. Limited

Wake Transit Plan - Wake Transit Bus Plan

exceptions can be made in cases where demand spikes during a short period to eliminate or reduce crowding on individual trips.

Vehicle Type Should be Appropriate for Service.

Transit vehicles should be matched to service types by vehicle type and capacity. For example, the standard fixed-route transit vehicle is typically a 40' transit bus and is appropriate for most services. However, high ridership routes may warrant 60' articulated vehicles, and conversely, lower ridership routes such as local routes or shuttles may only require 30' vehicles. Flex service and demand-response vehicles typically utilize smaller vehicles.

Additionally, as required by Title VI, transit providers must distribute vehicle assignments evenly throughout the system so newer vehicles are equitably deployed across the service area.



3 Service Level Standards

Service level standards help transit providers determine how much transit service to provide, given the underlying local market and operating conditions. Setting expectations for service levels also creates a coordinated and consistent network of service by establishing uniform standards for each service type.

The service level standards work in concert with the service productivity measures (Chapter 4) to create a network that is easy for operators to communicate with riders and stakeholders. The standards should work collectively to create a transit network that is productive and efficient.

The combined standards and measures also create a framework for expanding and contracting bus service. Transit operators can provide more service on any route or market, as deemed appropriate, but must provide at least the minimum proposed standard to meet the service type requirements.

The service level standards are determined based on five standards:

- 1. Span of Service: Sets route start and end times.
- 2. **Service Frequencies:** Recommends how often transit service is operated.
- Passenger Loads: Establishes acceptable levels of passenger volumes relative to the number of available seats.
- 4. **Bus Stop Spacing and Amenities:** Recommends stop spacing and amenity investments.

As discussed, service level standards set required <u>minimum</u> service levels for each route type, including hours of service, service frequencies, and acceptable passenger loads. Investments in a route may be increased (longer service span or increased frequency), if or when ridership increases to levels that exceed maximum loading standards. Conversely, service may be reduced when ridership falls below the minimum productivity measures. Likewise, service spans may be lengthened to extend service earlier in the morning and later at night, if minimum productivity targets can be met.

Minimum Span of Service

The span of service —operating hours - is the length of time a route is available, typically measured by the time a bus route begins and ends. It determines how usable an individual bus route is for riders. Consistent standards and expectations for the span of service also ensure the network overall will be able to offer connections and transfers between routes. However, operating hours are one of the most important factors in determining how much a route will cost. Developing an appropriate span of service—one that will meet rider and network needs, but not result in empty buses—is an essential component of an effective transit network.

Wake Transit Plan - Wake Transit Bus Plan

Service standards establish the required <u>minimum</u> span of service for each route type (Figure 4). The span of service varies by day of the week (weekdays, Saturdays, and Sundays), recognizing that the amount of activity, and consequently the need or demand for transit service, varies by day of the week. The standard reflects the **shortest** period of time that different route types of service should operate. The span of service for any individual route can be greater—but not less—than the standard. While transit operators may extend the span of service for any particular route, these trips must meet the minimum productivity and efficiency expectations for that category of service (see Section 4).

Figure 4 | Minimum Span of Service (Hours of the Day)

	Frequent Route	Local Route	Community Route	All Day Regional Route	Peak Only Route	Microtransit
Weekday	18	16	14	14	6	12
Saturday	18	16	12	12	Optional	Optional
Sunday	17	12	10	12	Optional	Optional

¹ Does not supersede ADA paratransit legal requirements.

Minimum Service Frequencies

Service frequency reflects the time interval between two vehicles traveling in the same direction on the same route, or how often the bus serves a particular stop. Service frequency is critical to establish transit service as an attractive and viable travel mode, and significantly influences transit ridership. Like span of service, frequency has a significant impact on operating costs. For example, improving a route from a 60-minute frequency to a 30 minute-frequency doubles the route's operating costs. Because operating high-frequency service is so expensive, transit service frequency can vary throughout the day (i.e. peak and off-peak periods) to reflect existing or potential demand. Service frequencies are also set to ensure there are enough vehicles on the route to accommodate passenger volumes while not exceeding recommended loading standards.

The required service frequencies for routes in the Wake Transit Bus Plan are shown in Figure 6. These service frequencies set the *minimum* expectation for the frequency of bus service to ensure network compatibility. Consistent with the span of service expectations, transit operators are permitted to provide higher service frequencies. However, these additional trips are expected to meet the minimum productivity expectations for the category of service (see Section 5).

Service frequencies are listed in terms of "clock face intervals" (e.g., every 10, 15, 20, 30, or 60 minutes) as these intervals are easier for passengers to remember and can help facilitate better transfer connections between routes. Whenever possible, frequencies should be set at regular clock-face intervals. However, there are two key exceptions:

 Where individual trips must be adjusted away from clock face intervals to meet shift times, work times, transfer connections, coordinate with pulse schedules, or other special circumstances.

Wake Transit Plan - Wake Transit Bus Plan

Where the desired frequency of service causes round trip recovery time to exceed 20% of the total round trip vehicle time. In such cases, the inefficiency of the schedule outweighs the benefit of a clock face schedule.

Figure 5 | Minimum Service Frequency (Frequency in Minutes)

	Frequent Route	Local Route	Community Route	Microtransit*	All-Day Regional Route	Peak-Only Route
Weekdays						
Early AM	30	60	60	_	60	_
AM Peak	15	30	30	20	60	3 peak direction trips
Midday	15	30	60	20	60	_
PM Peak	15	30	30	20	60	3 peak direction trips
Night	30	60	60	_	60	_
Saturdays						
All Day	30	60	60	Optional	60	Optional
Sundays						
All Day	30	60	60	Optional	60	Optional

^{*}Microtransit frequency is predicted wait time

Note: "— "indicates that the standard does not apply. Also, the standard applies to services that are provided, and does not imply that all services will be provided at all times.

Vehicle Loads

Vehicle loads refer to the number of riders on the bus relative to the seating capacity of the vehicle. Vehicle loads are typically measured in terms of maximum standards to capture the time (or portion of the route) when the greatest number of riders are on the vehicle at the same time. They are also expressed in percentages to reflect the number of people on the vehicle in proportion to the number of seats. A standard of 100%, for example, sets a goal of ensuring every passenger has a seat. A standard of 120% allows for some standing passengers. If a bus route consistently exceeds the vehicle loading standards, additional capacity (more or larger buses) should be added to the route.

Transit providers can adjust services to keep the number of passengers on their vehicles at a comfortable level, always within the limits of safety. In peak periods, this means that some passengers may be expected to stand for a portion of the trip. In off-peak times and/or for services that operate over longer distances, service will be designed to try to provide a seat to all customers. Transit operators maintain passenger loads within acceptable levels by matching capacity to demand. They can accomplish this by matching vehicle types with ridership levels (i.e. assign larger vehicles to higher ridership routes) by increasing (or decreasing) the frequency of service.

Wake Transit Plan - Wake Transit Bus Plan

The Wake Transit Plan service standards set requirements for the maximum average vehicle loads by service type and time of day (Figure 6). The standard reflects the average number of passengers relative to seating capacity for both the peak and off-peak periods, at the busiest point on the route.

Figure 6 | Average Vehicle Loading Maximums

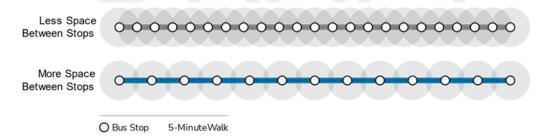
	Frequent Route	Local Route	Community Route	Microtransit	All-Day Regional Route	Peak-Only Route
Peak	120%	120%	100%	100%	100%	100%
Off-Peak	100%	100%	100%	100%	100%	100%

Note: Maximums are averages over one-hour periods; individual trips may exceed averages.

Bus Stop Spacing

Spacing bus stops is an essential part of effective transit service. Closely spaced stops provide convenient access because riders are more likely to have a shorter walk to the nearest bus stop. However, closely spaced bus stops make bus service slow, as each additional stop requires the bus to decelerate, come to a complete stop, load, and unload riders, and then accelerate and remerge into traffic. Since most riders want service that balances convenience and speed, the number and location of stops is a key component of determining that balance.

Bus stop spacing should also reflect service types. In general, services that emphasize speed and productivity (e.g., frequent routes) should have fewer stops that are spaced further apart, while services that emphasize accessibility (e.g., community routes) have stops spaced more closely together.



Standards for minimum stop spacing (or maximum stops per mile) are shown in Figure 8 |. Where multiple routes operate in the same corridor, the standard for the highest level of service operation applies. Exceptions to these standards should only be made in locations where walking conditions are particularly dangerous, significant topographical challenges impede pedestrian access, or factors compromise safe bus operations and dwelling. This includes level of walkability, the absence of pedestrian accommodations, and the presence of a dendritic street network throughout much of the region.

Wake Transit Plan - Wake Transit Bus Plan

Figure 7 | Industry Standard Bus Stop Spacing Standards

	Frequent Route	Local Route	Community Route	All-Day Regional Route	Peak-Only Route
Minimum Stop Spacing in Feet					
Moderate to High Density	1,300	1,300	1,300	2,600	_
Low Density	1,300	1,300	1,300	2,600	_
Maximum Number of Bus Stops per Mile					
Moderate to High Density	4	4	4	2	_

Notes: Moderate to high density defined as greater than or equal to 4,000 persons per square mile; low density defined as less than 4,000 persons per square mile

Bus Stop Amenities

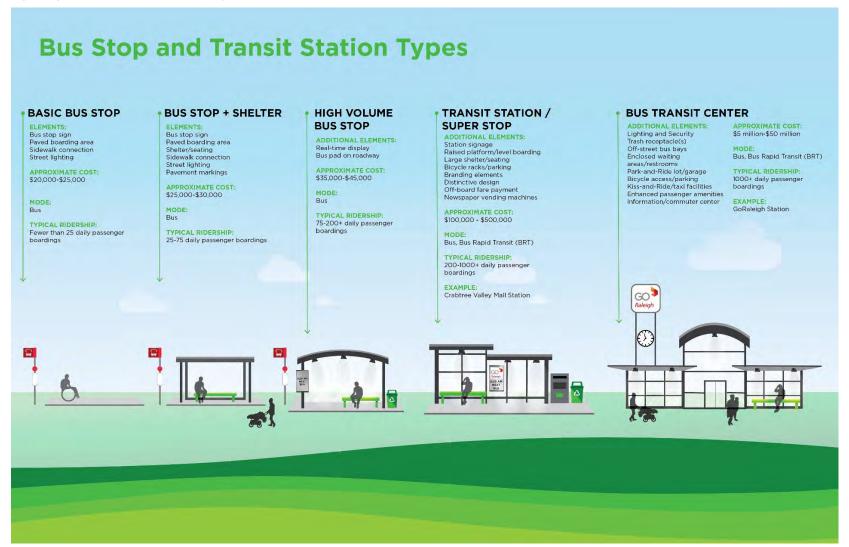
Bus stops should include passenger amenities that are appropriate for the level of passenger activity occurring at each stop. This standard serves several purposes: it ensures amenities are distributed with equity, as required by Title VI, as well as ensuring transit providers are efficiently investing capital resources in locations where it is most appropriate. Since passenger amenities enhance multiple routes, these standards are not specific to the type of service, only the total number of boardings, as described.

Where practicable, all new or improved bus stops and passenger waiting areas must conform to the ADA requirements as laid out in the Department of Transportation ADA standards for Transportation Facilities (2006). These standards specify a variety of requirements for platform surface, widths, and connectivity to surrounding sidewalk infrastructure and shelter facilities. As funds are available, existing bus stops and passenger waiting areas should be updated to meet ADA requirements.

Additionally, all stops should include clear signage. Additional amenities such as benches should be provided, as appropriate, depending on the level of passenger activity. Figure 9 provides a description of recommended amenities by type of stop.

Wake Transit Plan - Wake Transit Bus Plan

Figure 8 | Bus Stop and Transit Station Types



4 Performance Measures

Introduction

The Wake Transit Plan measures a combination of network-level and route specific performance measures. Network-level performance measures will measure progress towards overall goals and guide investment at a strategic level. An examples of a network-level performance measures in the Wake Transit Plan is the percentage of Wake County residents and jobs within ¾ of a mile of all-day transit. Ensuring progress towards this goal is incorporated into the project prioritization process and determining where to develop new bus routes.

Route-level performance measures, on the other hand, are designed to ensure the productivity of individual bus routes matches the level of investment. The process of tracking and evaluating individual bus routes helps both the Wake Transit Plan and individual transit operators to identify which bus routes meet their performance targets, as well as routes that may be over performing the expectations for the classification and potentially warrant additional investment. Likewise, bus routes that are under-performing relative to their standards may require adjustments or reduced investment. In this way, the performance standards guide investment in individual bus routes and encourage transit operators to adjust service levels to match expectations.

Performance measures consist of a limited set of measures that capture the critical aspects of service productivity, efficiency, and effectiveness; at the same time, these performance measures can be easily reproduced and communicated. Performance measures are set for each of the six service classification types, recognizing that the productivity of individual bus route will be shaped by the underlying market and operating characteristics.

The performance measures included in this report were developed by:

- Considering the existing performance measures and productivity levels of similar services as measured in the 2021 Route Performance Assessment.
- Reviewing performance measures and productivity levels used by peer agencies, including both peers of the current network as well as peers applicable to the evolving transit network (see Appendix B).

Updates to Performance Measures

In 2018, the Wake Transit Plan Service Guidelines and Performance Measures included four route-level metrics, one of which was designed to track service quality (on-time performance) and three related to service productivity (riders per hour or trip, cost per rider and farebox recovery rate). The 2018 guidelines and measures also set expectations for measuring customer satisfaction through a rider survey conducted regularly (see Chapter 6).

The 2023 Wake Bus Plan evaluated individual bus routes according to the metrics set out in the Wake Transit Plan Service Guidelines and Performance Measures. The analysis was based on

data for the month of April for the six-year period between 2016 and 2021. While the impact of the pandemic on transit ridership and bus route performance was clear, the evaluation process routes revealed opportunities and challenges with the approach developed in 2018, namely:

- In some cases, standards require adjusting because they were too stringent ortoo lenient. Examples include operating cost per rider and riders per trip.
- Farebox recovery ratio became meaningless when transit agencies eliminated fares during the pandemic. It also did not offer additional meaningful insights into route productivity beyond operating cost per rider.
- While on-time performance is an important measure of service quality, it might not be the most appropriate metric for the Wake Transit Plan.
- A renewed emphasis and desire to capture the value or impact of service, especially for the lowest income residents, people of color and other historically disadvantaged populations.

Wake Transit Plan Performance Measures

As part of updating the Service Guidelines and Performance Measures in 2023, the Wake Bus Plan Working Group recommended adjusting the 2018 measures (or metrics) to focus on service quality, service effectiveness, service effectiveness and customer satisfaction.



Service Quality

The Wake Transit Plan uses on-time performance to capture service quality. It measures how closely a transit service adheres to its published schedule, indicating the percentage of time a route is arriving on time, early or late. It is an important customer facing measure because it impacts service reliability.

 On-time performance – compares scheduled and actual bus departure and arrival times at fixed time points.



Service Effectiveness

Service effectiveness measures provide insights into how many riders benefit from using Wake Transit Plan funded service compared to how much that service costs to operate and maintain. These measures are designed to ensure the Wake Transit Plan is a good steward of taxpayer funds. Service effectiveness is measured in two ways – productivity and cost effectiveness.

Productivity

The productivity of a bus route is measured according to:

 Riders per revenue hour – the number of boardings divided by the total number of hours the vehicles on a route are in service. • Riders per revenue trip – the number of boardings divided by the number of trips a route makes during the day. Peer agencies use this metric as a more appropriate way to measure routes that run fewer trips each day over longer distances.

The standard sets a minimum for the average number of passenger boardings that a route should generate for each service hour (Figure 14). The standards vary by service type and by day of the week and time of day.

Figure 9 | Minimum Productivity Levels

	Frequent Route	Local Route	Community Route	Microtransit	All-Day Regional Route	Peak-Only Route
Weekdays – All Day	25/hour	15/hour	8/hour	2/hour	10/trip	10/trip
Weekdays – Early Morning and Late Night	15/hour	8/hour	8/hour	2/hour	6/trip	-
Saturday	20/hour	10/hour	8/hour	2/hour	8/trip	-
Sunday	15/hour	8/hour	8/hour	2/hour	6/trip	-

Note: "Early Morning and Late Night" refers to service before and after the minimum span of service. All day refers to the complete span of service, including early morning and late night service. "—" indicates that the standard does not apply.

Cost Effectiveness

Measuring a route's operating cost per rider shows how many people are using the bus route compared to how much it costs to run.

Operating Cost per Rider – the amount spent on operating a bus route (fuel, vehicle
maintenance and repairs, and operator wages and benefits) divided by the number of
riders carried on the bus route.

Operating cost per rider varies by route type (see Figure 15).

Figure 10 | Operating Cost per Boarding

	Frequent Route	Local Route	Community Route	Microtransit	All-Day Regional Route	Peak-Only Route
Cost per boarding	\$5.00	\$10.00	\$10.00	\$30.00	\$10.00	\$10.00



Productivity and cost effectiveness alone cannot capture the full impact and importance of transit service to individual neighborhoods and the region overall. A route that has low productivity, for example, may serve residents in neighborhoods with historic disinvestment and/or higher

concentrations of individuals and families with low incomes. The value – or impact – of these bus routes may not be reflected purely in cost per rider or rider per hour (or trip).

Rather than a standard, the Service Impact measure qualifies bus routes for a relaxed standard, given the added impact of serving low-income and historically disadvantaged communities.

- CAMPO's 2050 Metropolitan Transportation Plan developed a methodology to identify "communities of concern" for environmental justice analysis using six American Community Survey metrics: race (non-white), ethnicity (Hispanic or Latino origin), poverty (below 150% of the poverty line), elderly population (65+), vehicle availability (zero-vehicle households), and English proficiency (people who do not speak English or speak English "less than very well"). A block group meets the indicator threshold for each metric if the percentage of the targeted population is in the 75" percentile of all CAMPO block groups.¹
- Bus routes would be eligible for a FIXED service impact benefit if at least 50% of the stops are located within one-quarter mile of block groups that include at least four (4) equity groups identified on CAMPO's communities of concern map.
- Bus routes that qualify for the FIXED service impact benefit are required to meet 80% of the standard for riders per hour / riders per trip and 120% of the standard for cost per rider.
- Bus routes would be eligible for a VARIABLE service impact benefit if at least 25% of the stops are located within one-quarter mile of block groups that include at least four (4) equity groups identified on CAMPO'S communities of concern map.
- Bus routes that qualify for the **VARIABLE** service impact benefit are required to meet the annual standard for riders per hour/riders per trip less 5% (-5%) and the annual standard for cost per rider plus 5% (+5%).

Fiscal Year	Performance Standard (Wake Transit Routes)	Performance Standard (Cost Effectiveness)	Service Impact Benefit (Equity Routes – 50%)	Service Impact Benefit (Equity Routes 25%)
FY2017-2023	80% of Service Targets	120% of Cost Targets	80%/120%	80%/120%
FY2024-2026	90% of Service Targets	110% of Cost Targets	80%/120%	85%/115%
FY2027 and beyond	100% of Service Targets	100% of Cost Targets	80%/120%	95%/105%

¹ https://www.campo-nc.us/transportation-plan/2050-metropolitan-transportation-plan-mtp

Phasing Performance Standards

Service effectiveness performance measures are designed to evaluate routes in year 2027 of the Wake Transit Plan. Individual route performance is expected to improve as the overall network of transit service expands and improves. The standards set out in this document reflect the service effectiveness expected from a mature and complete transit network. Bus services associated with the Wake Transit Bus Plan will be phased in over time as are the expectations associated with individual routes. This approach ensures the performance targets will be appropriate for the life of the Wake Transit Plan. *Phasing does not apply to measures of service quality or service impact.*

The measure of productivity (riders per revenue hour and riders per trip) will be phased in over time, with individual routes and services evaluated according to the following schedule:

- Fiscal Years 2017-2021 80% of target
- Fiscal Years 2022-2026 90% of target
- Fiscal Year 2027 and beyond 100% of target

The measure of cost effectiveness (operating cost per passenger boarding) is expected to decrease as service improves and ridership increases. For that reason, the phased schedule is the inverse and will be evaluated according to the following schedule:

- Fiscal Years 2017-2021 120% of target
- Fiscal Years 2022-2026 110% of target
- Fiscal Year 2027 and beyond 100% of target

Applying the Performance Standards

The TPAC understands that transit providers are solely responsible for operating their services. As such, transit providers have discretion to recommend and implement changes to their routes as needed. Transit providers are encouraged to integrate the Service Guidelines and Performance Measures as they review and evaluate their transit services. This internal review process, as proposed for the Wake Transit Bus Plan, should consider transit operations as well as the impact of exogenous variables that may impact route productivity, such as gas prices.

However, the TPAC designed these performance standards and measures to strike a balance between setting realistic and achievable goals with a desire to encourage ongoing improvement. As such, the TPAC recommends that transit providers compare route performance relative to the Wake Transit Bus Plan standards. Routes that consistently over-perform relative to the Wake Transit Plan may warrant additional investment; and conversely routes that consistently underperform relative to their standard may warrant a reduced investment. Recognizing that not every bus route will meet all performance standards, all the time, over-performing routes are defined as services that surpass at least three performance measures for three or more consecutive quarters. Under-performing routes are defined as routes that fall below the minimum standards for three or more performance measures for a period of three or more consecutive quarters.

Local transit providers will develop a report, submitted to the TPAC quarterly, that shows performance on individual performance measures at a route level. This report will also include information on the number of consecutive quarters the route has over- or under-performed relative to the standards. The TPAC will not be taking action on the routes on a quarterly basis, but transit providers will make the information available on a quarterly basis.

Wake Transit Plan - Wake Transit Bus Plan

The TPAC recommends a tiered system for addressing over- and under- performing routes. This process is designed to be clear, consistent, and fair while ensuring the most cost-effective investments are prioritized.

- New routes or routes undergoing significant changes (defined as a 20% change in revenue miles or hours) will be classified as new and exempt from performance measures services for a period of 18 months to build ridership and themarket for transit services. This grace period is intended to reflect the major changes in transit service development in Wake County. The time period is longer than the one currently adopted by GoTriangle and GoRaleigh.
- 2. Local transit providers will review route productivity annually (in conjunction with the annual work plan process). Routes identified as under- or over-performing will be considered as part of the local transit provider's existing route review process. This process will be conducted in advance of the annual work plan development process and may consider corrective actions such as minor changes to include service design, strengthening connections, coordination with other routes; and/or marketing or information systems. Any actions resulting from this are at the discretion of the transit providers.
- 3. Any significant changes to the funding of individual routes will be recommended as part of the update to the Wake Transit Bus Plan, a process that is envisioned to occur at least once every four years. As part of this process, routes that have over- or under-performed relative to at least three of their respective standards for the pastthree or more consecutive quarters will be subjected to more strenuous review. This process will include reviewing:
 - o The specific performance measures where over- or under-performance has been recorded, including duration and the magnitude of the gap.
 - Exogenous variables out of the transit providers' control may have contributed to over- or under-performance.
 - Efforts under-taken by the transit provider to address over- or underperformance.

Routes that consistently over-perform set targets and have not received additional investment **may** be considered for additional resources. Additional resources may be used to advance the route classification to a higher tier or service (i.e., graduate service from a local route to a frequent route).

Likewise, routes that have exhausted their route development period and have notimproved with annual adjustments **may** be recommended for a reduction or elimination of funding. For example, a reduction in funding may be used to move a route down a classification tier (i.e., from a community route to a demand response service).

5 Measuring Customer Satisfaction

Customer satisfaction is a critical element of the Wake Transit Plan as the vision adopted by the voters includes clear guidelines for enhancing customer service. The goal with these guidelines is a transit system that prioritizes accessibility, comfort, security, reliability, cleanliness, courtesy, and communication. Customer satisfaction measures also allow TPAC member agencies to understand if complaints are incidental to a particular individual or systemic to the overall network. Regular, periodic customer satisfaction surveys also allow Wake Transit Governing Boards to track satisfaction in the overall transit network as it evolves.

Customer Satisfaction Survey

Each of the transit providers in Wake County will administer an annual customer satisfaction survey to gauge customer satisfaction (see Figure 18). The annual survey should include four key elements:

- Create a baseline survey: The fiscal year 2019 survey will be the first comprehensive survey among all providers in Wake County. This survey will provide the baseline to compare future surveys against as transit improvements are implemented.
- Survey by provider and region: The core of the survey instrument should include a set
 of identical questions for each transit provider. Uniform questions will allow the survey to
 provide comparable data among providers and assess regional satisfaction, while
 providing useful data to individual providers.
- 3. **Survey annually:** To utilize the survey as a performance measure, surveys should be conducted annually to monitor changes in customer satisfaction.
- 4. **Ensure statistical confidence:** The survey should obtain a 95% level of confidence for each provider.

Survey results should be reported annually to the TPAC, along with the network-level performance measures. Success or challenges identified in the survey process can be incorporated into the annual work plan review process to make minor adjustments as needed. Recommendations for major changes that result from the customer satisfaction survey process should be included in the major review process schedule.

Wake Transit Plan - Wake Transit Bus Plan

Figure 11 | Onboard Customer Satisfaction Survey (20238 GoCary)

PASSENGER SURVEY — Please tell us about how you use	GoCary El cuestiono	rio er	espo	ก็ol s	e enc	uentr	о еп	el otn	o lado
Cary 1. In a <u>typical week</u> on how many days do you currently use GoCary? (Circle only one) 0 (None – Not a regular GoCary rider) 1 2 3 4 5 6 7	In the past 30 days, how would you rate GoCary on the following services?	Excellent	Very Good	Good	Neutral	Poor	Very Poor	Extremely poor	Does not apply
Before the pandemic which began in March 2020, on how many days a week did you typically	16. Buses running on-time	7	6	5	4	3	2	1	0
use GoCary? 0 (Did not use GoCary then) 1 2 3 4 5 6 7	17. Frequency of service on weekdays	7	6	5	4	3	2	1	
3. During the pendemic in 2020 and 2021, on how many days a week did you typically use	18. Frequency of service on Saturday	7	6	5	4	3	2	.0	
GoCary? 0 (Did not use GoCary then) 1 2 3 4 5 6 7	19. Frequency of service on Sunday	7	6	5	4	3	2	1	
4. What is the ONE main purpose for which you <u>most often</u> use the GoCary bus? Is it to go to or from	20. Hours the buses operate weekdays	7	6	5	4	3	2	1	0
1 ☐ Work 2 ☐ School/college 3 ☐ Shopping 4 ☐ Medical/dental 5 ☐ Recreation/event 4 ☐ Other	21. Hours the buses operate Saturday	7	6	5	4	3	2	1	
	22. Hours the buses operate Sunday	7	6	5	4	3	2	1	
5. Please check <u>oil!</u> Triangle Region bus systems you use in a <u>hypicol</u> week 1 GoRaleigh 2 GoTriangle 3 GoDurham 4 GoCary 5 Chapel Hill Transit	23. Total time it takes for your usual trip	7	6	5	4	3	2	1	
4 □ Duke Transit 7 □ Wolfline	24. Service to all locations you want to go	7	6	5	4	3	2	1	
10 🗆 None of these	25. Ease of transfer among GoCary routes	7	6	5	4	3	2	1	0
6. Please mark <u>all</u> of the following that apply to you. Are you 1 □ Employed full time 2 □ Employed part time 3 □ Unemployed	26. Ease of transferring between GoCary and other area bus transit systems	7	6	5	4	3	2	1	
↑ ☐ Homemaker 5 ☐ Student/Retired 7 ☐ Volunteer position	27. Cleanliness of the bus interiors	7	6	5	4	3	2	3	0
7. If you are employed, are you currently working remotely or does your work require you to be onsite? □ Remote only □ Remote some days; onsite other days □ Onsite only	28. Cleanliness of the bus shelters and transit centers	7	6	5	4	3	2	1	0
8. Which GoCary routes do you use regularly? (Circle the ones that apply) 0 1 2 3 4 5 6 7 8 ACX	29. Your sense of personal safety from other passengers on the buses	7	6	5	4	3	2	1	0
9. How old are you? Years old	30. Courtesy & helpfulness of bus operators	7	6	5	4	3	2	1	
10. Do you identify as I D Male 2 D Female 3 D Non-binary 4 D Prefer not to answer	31. Usefulness of information from 485-RIDE telephone operators	7	6	5	4	3	2	1	0
11. Do you consider yourself to be (Please check all that apply to you) 1 □ African American/Black 2 □ Asian 3 □ Caucasian/White 4 □ Hispanic 5 □ Native American Indian 6 □ Other:	32. Usefulness of printed information such as schedule or brochures	7	6	5	4	3	2	ii	0
12. What language do you most often speak at home? (Check only one)	33. Quality of WIFI service	7	6	5	4	3	2	1	0
1 □ English 2 □ Spanish 3 □ Other:	34. The overall quality of GoCary service	7	6	5	4	3	2	1	
13. What is your total annual household income? (Check only one) Less than \$10,000 2 \$10,000 to \$14,999 3 \$15,000 to \$19,999 \$20,000 to \$24,999 5 \$25,000 to \$34,999 6 \$35,000 to \$49,999	35. Of the services in questions 16 to 33 above if service is already very good or excellent, if Most important 2nd most Comments:	to mai			ree mo	ost imp	ortani	to im	prove or
15. Do you use a transit app on your cell phone? 1 ☐ Yes 2 ☐ No 3 ☐ No cell phone If you use a transit app, which one?	-								

Appendix A Existing Service Policies of Wake County Transit Providers

Four independent transit agencies operate public transportation services in Wake County. Each operator follows prescribed guidelines and performance measures to govern the provision of transit services (Figure 16).

Figure 12 | Wake County Transit Provider Policy Guidelines

Transit Provider	Governing Service Guidelines and Performance Measures
GoRaleigh	 GoRaleigh Service Change Initiation Policy GoRaleigh Rider Notification Policy GoRaleigh Shelter and Bench Policy GoRaleigh Title VI Program
GoTriangle	GoTriangle Regional Bus Service StandardsGoTriangle Title VI Program
GoCary	 Town of Cary Fixed Route Transit Service Standards Town of Cary Title VI Program
WCTS	Wake Coordinated Transportation Service Operations Guide

GoRaleigh Policies

Several GoRaleigh policies are related to transit service changes and the provision of transit amenities. GoRaleigh adopted its Service Change Initiation Policy in 2002. The policy states that no changes shall be made to a new route for at least six months after service initiation, unless safety, operational, or productivity issues warrant review by the provider.

GoRaleigh's Rider Notification Policy defines changes in transit service and outlines the required procedure for handling major service changes. According to GoRaleigh's Shelter and Bench Policy, shelters and benches are warranted at bus stops where there are at least 25 and 10 boardings a day, respectively. The policy states that special facilities should be provided, if necessary, at locations such as hospitals, clinics, senior centers, or recreation facilities serving seniors or persons with disabilities.

In addition to these written policies, GoRaleigh tracks:

- Predictive policy: Review routes with farebox revenue less than 50% of the systemwide average
- On-time performance: Defined as zero minutes early and five minutes late. Routes performing at 74.9% or less require review.

GoRaleigh also maintains standards based on Title VI requirements. These standards guide Title VI compliance, ensuring that minority and low-income individuals receive equitable transit service. The GoRaleigh Title VI Program defines the following standards:

- Load: Routes experiencing passenger load ratios between 1.01 to greater than 1.50at any point should be reviewed
- Headway: Headways shall vary between peak periods and off-peak periods where demand dictates in order to minimize operating expenses and provide the most efficient service during weekday peak demand periods.
- On-time performance: 85% of trips should be completed no later than five minutes after the scheduled time point.
- Service availability: Evaluate the availability of transit service within Raleigh's minority
 Census Block Groups
- Passenger amenities: Provide bus shelters for stops with 25 daily boardings or more and benches for stops with 10 boardings or more.
- Vehicle assignments: Randomly assign vehicles to routes on a daily basis to ensure that buses are distributed equitably.

GoTriangle Policies

GoTriangle's service guidelines are contained within the 2004 GoTriangle Regional Bus Service Standards. This document provides detailed expectations for GoTriangle services and establishes several service performance indicators, including:

- Unlinked Passenger trips per Vehicle Revenue Hour
- Cost Recovery Ratio
- Operating Cost per Unlinked Passenger Trip
- Subsidy per Passenger
- Unlinked Passenger Trips per Vehicle Revenue Mile

GoTriangle classifies routes as Peak Period, Daytime, Evening, or Weekend; routes are also classified as New (in operation for less than six months) or regular (in operation for six months or more) services. For each service standard, GoTriangle sets performance expectations based on the average of all routes in the category. Accordingly, once an average has been calculated, each route can be classified as low-performing (less than 75% of average), average (from 75% to 125% of average), or high-performing (greater than 125% of average).

According to the Regional Bus Service Standards, GoTriangle uses the results of the performance evaluation to address both low-performing routes and high-performing routes. Low-performing routes are defined as routes that score "low" on three to five indicators; depending on the indicators, GoTriangle will consider alignment modifications or schedule changes to improve performance. Passenger amenity improvements are often recommended for high-performing GoTriangle routes.

The Regional Bus Service Standards also guide Title VI compliance. Although Title VI evaluations are processed separately from service standards, GoTriangle evaluates additional indicators to compare predominantly minority Census tracts with predominantly non-minority Census tracts, to ensure they are distributing and allocating services, amenities, and other resources equitably. Indicators considered under GoTriangle's Title VI evaluation include:

 Impact on minority communities and minority-owned businesses during and after construction.

- Impacts that may be felt in minority communities, including increased traffic and the amount of available parking.
- Transit vehicle load factors between minority and non-minority Census tracts.
- Vehicle headways in minority and non-minority Census tracts.
- Distribution of amenities (benches, shelters, etc.) in minority and non-minority Census tracts.
- Transit access (distribution of transit services, number of people within a one-half mile walking distance to the system) in minority and non-minority Census tracts.

GoCary Policies

GoCary developed Fixed Route Transit Service Standards in 2014, in part to ensure that the Town of Cary complies with nondiscrimination laws and regulations, including Title VI. The goal of the service standards is to establish policies necessary to ensure that GoCary service does not create disparate impacts on minority populations nor pose disproportionate burdens on low-income populations. Beyond this overarching goal, the document also outlines several standards:

- Vehicle loads: Vehicle loads should not exceed seating capacity on 30% or more of the trips provided on a given route, or exceed a load factor of 1.30.
- Vehicles will be assigned based on ridership demand.
- Service frequency: Thirty minute frequency on allroutes during peak periods and 60minute frequency on all fixed loop routes and off-peak period service
- On-time performance: Average system-wide on-time performance of 95%
- Service availability: Provide bus service to at least 50% of Cary residents living within three-quarters of a mile of a bus route
- Distribution of amenities: Provide a shelter at bus stops with over 20 boardings per day

WCTS Policies

WCTS's Operations Guide (2015) outlines how the system's coordinated public and human service transportation operations are designed, operated, and delivered. The requirements and standards included in the Operations Guide are specific to coordinated service provision.

WCTS's primary service indicator is on-time performance. The Operations Guide states that the contractor is responsible for maintaining a minimum standard of "on-time vehicle trips" of 95% on both a daily trip basis and over the course of the contract period. The operations guide also sets several requirements regarding scheduling and dispatch, including:

- Daily scheduling sets a target that establishes that 99% of all trips (individual riders) do not spend more than one hour "in-vehicle" riding time.
- On-time performance measures the actual pick-up time with the scheduled pick-up time, as well as arrival prior to appointment time. A trip is considered "on-time" if the vehicle arrives for the rider within ± 30 minutes of the scheduled time in addition to arriving at appointment no later than appointment time. A minimum of 95% of all trips within Raleigh should be picked up within 60 minutes. Outside of Raleigh, a minimum of 95% of all trips should be picked up within 90 minutes.

 The contractor should schedule and dispatch services that average at least 1.5 trips per hour monthly.



Appendix B Wake Bus Plan Classification of Routes

All Wake Transit Plan funded fixed route bus routes have been categorized according to the recommended and updated service guidelines (see Figure 13). Categorized routes include bus routes in the 2023 Wake Bus Plan and funded through Fiscal Year 2025.



Wake Transit Plan - Wake Transit Bus Plan

Figure 13 Wake Transit Plan Funded Routes by Category (2023)

	GoRaleigh	GoCary	GoTriangle
Frequent Route	 1 Capital 5 Biltmore Hills (FY24) 6 Glenwood (FY24) 7 South Saunders 9 Hillsborough (FY24) 11 Avent Ferry (FY25) 15 WakeMed (replaced FY25) 19 Apollo Heights 		
Local Route	 2 Falls of Neuse 3 Glascock 4 Rex Hospital 8 Six Forks 10 Longview 12 Method 16 Oberlin 18 Poole 21 Caraleigh 27L Blue Ridge-Trinity 36 Creedmoor 		
Community Route	 11L Southwest 15L Trawick Connector 17 Rock Quarry 18L Poole-Barwell 20 Garner 25L Triangle Town Link Wake Forest Loop 	 1 Crossroads 3 Harrison Ave 4 High House Road 5 Kildaire Farm Road 6 Buck Jones Road 8 Cary Parkway 7 Weston 11 East Cary-Fairgrounds 12 Apex-Cary 	
All-Day Regional Route	33 Knightdale40X Wake Tech Express70X Glenwood North		 100X Raleigh-RTC-Durham 300 Cary-Raleigh 305 Holly Springs-Apex-Raleigh 310 Cary-RTC
Peak-Only Route	 55X Poole Road Express FRX Fuquay-Varina- Raleigh Express WRX Wake Forest-Raleigh Express 		 CRX Chapel Hill-Raleigh Express DVX Duke-VA Express ZWX Zebulon-Wendell- Raleigh Express

Appendix C Peer Review

Peer transit systems were identified through the National Transit Database (NTD) to determine appropriate performance measures for the Wake Transit Bus Plan. This process identified 11 peers, including four North Carolina agencies (Charlotte, Durham, Greensboro, and Winston-Salem); and eight national peers (Charleston, SC; Fort Wright, KY; Indianapolis, IN; Little Rock, AR; Madison, WI; Nashville, TN; Phoenix, AZ; and Richmond, VA). As a reference, the document also includes standards used by national leaders in transit service development and aspirational peers for Wake County. These agencies include the Regional Transit District in Denver; Tri-Met in Portland, Oregon; and Miami-Dade Transit in Miami; and Sound Transit in Seattle.

The information obtained in this peer review:

- Identifies best practices used in the setting and development of performancemeasures by transit agencies.
- Explores the existing productivity levels of transit providers operating service within Wake County
- Considers the performance standards achieved by similarly sized and positioned peer transit agencies, as well as three aspirational peers.

Best Practices

This review of transit performance measures identified best practices that ensure performance measures are used in a constructive and appropriate way and work to encourage ongoing improvement and development. The most relevant of these best practices include:

- Setting performance standards based on route type.
- Adjusting performance expectations to reflect new and existing services.
- Calculating performance based on specific standards, not averages, which by designare continually shifting and result in an unstable baseline and target that can never be achieved.
- · Collecting data on route performance quarterly, but evaluating routes annually

Peer Systems and Underlying Operating Characteristics

The peer review includes operating characteristics (service area, service area population, annual operating costs, and peak vehicles) to help interpret relative performance (Figure 14 |. Data on both the operating characteristics and performance measures were compiled using the National Transit Database (NTD) (2021 reporting data). Figure 15 compares GoTriangle, GoRaleigh, and GoCary to the selected peers on several measures of service performance and efficiency, while Figure 15 provides the same information for WCTS.

As part of setting performance measures, this document balances what is realistic in Wake County today (2023) with the future expected investment in the transit network. The frequent and regional bus service operated by agencies in Denver, Portland, Miami, and Seattle are monitored under standards comparable to the Wake Service Guidelines and Performance Measures (see Figure 17).

Wake Transit Plan - Wake Transit Bus Plan

Figure 14 | Wake County Transit Providers and Peer Systems – Fixed Route Service Statistics (2021)

City	Service Provider	Service Area Size (sq. mi.)	Service Area Population (2010)	Annual Operating Costs (in millions)	Fixed-Route Vehicles in Peak Service			
Transit Agencies Operating in Wake County								
Triangle Region, NC.2	GoTriangle	1,665	1,924,805	\$22.5	61			
Raleigh, NC	GoRaleigh	125	474,069	\$31.4	75			
Cary, NC	GoCary	59	173,587	\$3.9	11			
Peer Agencies								
Charleston, SC	Charleston Area Regional Transportation Authority	138	351,988	\$16.8	52			
Charlotte, NC	CATS	675	1,302,619	\$104.1	159			
Durham, NC	Durham Area Transit Authority	93	283,506	\$24.8	43			
Fort Wright, KY	TANK	267	278,653	\$19.0	97			
Greensboro, NC	Greensboro Transit Authority	127	269,666	\$16.1	41			
Indianapolis, IN	IndyGo	396	928,281	\$83.9	127			
Little Rock, AR	Rock Region Metro	64	126,103	\$15.4	34			
Madison, WI	Metro Transit	126	348,359	\$47.4	139			
Nashville, TN	Metropolitan Transit Authority	504	694,144	\$76.5	117			
Phoenix, AZ	Valley Metro	520	2,034,618	\$179.7	421			
Richmond, VA	GRTC	185	492,198	\$44.9	122			
Winston-Salem, NC	Winston- Salem Transit Authority	134	252,434	\$15.1	31			
Peer Average		269	613,547	\$53.6	115			

Source: National Transit Database (2021), U.S. Census and local provider data

² Includes service outside of Wake County

Wake Transit Plan - Wake Transit Bus Plan

Figure 15 | Wake County Transit Providers and Peer Systems – Fixed Route Operating Statistics (2021)

				1	,	,			
City	Service Provider	Passenger Boardings per Revenue Hour	Passenger Boardings per Revenue Mile	Operating Cost per Passenger Boarding	Cost per Revenue Hour	Farebox Recovery (%)			
Transit Agencies Operating in Wake County									
Triangle Region, NC.3	GoTriangle	8.8	0.4	\$19.24	\$168.87	10.3%			
Raleigh, NC	GoRaleigh	10.8	0.9	\$9.20	\$99.10	14.2%			
Cary, NC	GoCary	4.3	0.3	\$20.87	\$89.90	9.5%			
Peer Agencies									
Charleston, SC	Charleston Area Regional Transportation Authority	9.8	0.8	\$9.19	\$90.09	19.05%			
Charlotte, NC	CATS	8.5	0.6	\$17.62	\$149.33	6.34%			
Durham, NC	Durham Area Transit Authority	20.7	1.6	\$5.62	\$116.63	0.00%			
Fort Wright, KY	TANK	7	0.5	\$14.28	\$100.69	9.16%			
Greensboro, NC	Greensboro Transit Authority	11.3	0.9	\$8.95	\$101.04	7.47%			
Indianapolis, IN	IndyGo	7.5	0.6	\$20.14	\$150.40	4.55%			
Little Rock, AR	Rock Region Metro	9.9	0.7	\$12.71	\$126.26	5.45%			
Madison, WI	Metro Transit	16.2	1.3	\$8.80	\$142.30	17.56%			
Nashville, TN	Metropolitan Transit Authority	10.7	0.9	\$18.43	\$197.06	4.89%			
Phoenix, AZ	Valley Metro	14.3	1.3	\$7.32	\$104.46	1.22%			
Richmond, VA	GRTC	11.3	0.9	\$8.82	\$99.45	5.07%			
Winston-Salem, NC	Winston-Salem Transit Authority	9.8	0.8	\$9.19	\$90.09	19.05%			
Peer Average		22.1	1.7	\$4.38	\$93.62	20.4%			

Source: National Transit Database (2021) and local provider data

³ Includes service outside of Wake County

Wake Transit Plan - Wake Transit Bus Plan

Figure 16 | Wake County Transit Providers and Peer Systems – Demand-Response and ADA Paratransit Statistics (2021)

City	Service Provider	Passenger Boardings per Revenue Hour	Passenger Boardings per Revenue Mile	Operating Cost per Passenger Boarding	Cost per Revenue Hour	Farebox Recovery (%)
Transit Agencies Op	erating in Wake Cou	nty				
Wake County, NC	WCTS	1.3	0.1	\$44.52	\$57.44	48.1%
Triangle Region, NC.4	GoTriangle	2.1	0.1	\$166.87	\$358.67	0.1%
Raleigh, NC	GoRaleigh	1.9	0.2	\$18.00	\$34.58	0.5%
Cary, NC	GoCary	1.1	0.1	\$127.74	\$138.11	1.8%
Peer Agencies						
Charleston, SC	Charleston Area Regional Transportation Authority	1.8	0.1	\$42.44	\$74.30	3.00%
Charlotte, NC	CATS	1.2	0.1	\$97.18	\$120.09	3.27%
Durham, NC	Durham Area Transit Authority	2	0.1	\$61.85	\$102.89	0.00%
Fort Wright, KY	TANK	1.4	0.1	\$55.30	\$76.10	8.46%
Greensboro, NC	Greensboro Transit Authority	2	0.1	\$33.60	\$67.80	1.60%
Indianapolis, IN	IndyGo	1.9	0.1	\$61.10	\$118.92	5.65%
Little Rock, AR	Rock Region Metro	2.3	0.1	\$28.75	\$65.43	5.81%
Madison, WI	Metro Transit	1.4	0.1	\$38.85	\$54.04	22.45%
Nashville, TN	Metropolitan Transit Authority	1.7	0.1	\$85.51	\$144.12	3.43%
Phoenix, AZ	Valley Metro	1.2	0.1	\$69.72	\$82.13	0.09%
Richmond, VA	GRTC	1.7	0.1	\$30.63	\$51.61	0.00%
Winston-Salem, NC	Winston-Salem Transit Authority	2.5	0.2	\$27.32	\$68.06	9.21%
Peer Average		1.8	0.1	\$52.69	\$85.46	0.05%

Source: National Transit Database (2021) and local provider data

⁴Includes service outside of Wake County

Wake Transit Plan – Wake Transit Bus Plan

Figure 17 | Performance Standards Reported by Aspirational Peers

City Service Provider Revenue Hour Passenger Boardings per Revenue Hour Passenger Boarding (%) Portland, OR Tri-Met 15	Frequent Route Performance Standards								
Portland, OR Tri-Met 15	City	Service Provider	Boardings per						
Miami, FL Miami-Dade County Seattle, WA Sound Transit N/A N/A N/A Wake County, NC Wake Transit Bus Plan (Proposed) Core Regional Route Performance Standards City Service Provider Passenger Boardings per Revenue Hour Denver, CO RTD Portland, OR Tri-Met 15 Seattle, WA Sound Transit Bus Plan (Proposed) Wake Transit Bus Plan (Proposed) Wake Transit Bus Plan (Proposed) Demand-Response Performance Standards City Service Provider Passenger Boarding Passenger Boarding Passenger Boarding Wake Transit Bus Plan (Proposed) Demand-Response Performance Standards City Service Provider Passenger Boarding Passenger Boardings per Revenue Hour Denver, CO RTD 1.5 Miami, FL Miami-Dade County	Denver, CO	RTD	25	\$6.28	30%				
Seattle, WA Sound Transit N/A N/A N/A N/A Wake County, NC Wake Transit Bus Plan (Proposed) Core Regional Route Performance Standards City Service Provider Possenger Boardings per Revenue Hour Passenger Boarding Cost per Passenger Boarding Passenger Boarding Passenger Boarding Passenger Boarding Performance Standards Miami, FL Miami-Dade County 30 s Seattle, WA Sound Transit Seattle, WA Sound Transit Sus Plan (Proposed) Demand-Response Performance Standards City Service Provider Passenger Boarding Cost per Passenger Boarding Passenger Passenger Boarding Passenger Boarding Passenger Boarding Passenge	Portland, OR	Tri-Met	15						
Wake County, NC Wake Transit Bus Plan (Proposed) 25 \$6.00 20% Core Regional Route (Performance Standards City Service Provider Passenger Boarding Passenger Boarding Passenger Boarding Operating Cost per Passenger Boarding Farebox Recovery (%) Denver, CO RTD Portland, OR Tri-Met 15 Miami, FL Miami-Dade County 30 s Seattle, WA Sound Transit 25 (all day), 15 (limited service) Wake County, NC Wake Transit Bus Plan (Proposed) 20 s \$6 20% Demand-Response Performance Standards Passenger Boarding Passenger Boarding Passenger Boarding Passenger Boarding Passenger Boarding Operating Cost per Passenger Boarding (%) Farebox Recovery (%) Denver, CO RTD 1.5 Miami, FL Miami-Dade County Miami, FL Miami-Dade County	Miami, FL		30		20%				
Wake County, NC Bus Plan (Proposed) Core Regional Route Performance Standards City Service Provider Possenger Boarding Passenger Revenue Hour Portland, OR Tri-Met 15 Miami, FL Miami-Dade County Service Provider Passenger Bus Plan (Proposed) Demand-Response Performance Standards City Service Provider Passenger Boarding (%) Demand-Response Performance Standards City Service Provider Passenger Boarding Passenger Boa	Seattle, WA	Sound Transit	N/A	N/A	N/A				
City Service Provider Boardings per Revenue Hour Operating Cost per Passenger Boarding (%) Denver, CO RTD Portland, OR Tri-Met 15 Miami, FL Miami-Dade County 30.5 Seattle, WA Sound Transit Bus Plan (Proposed) Demand-Response Performance Standards City Service Provider Boardings per Revenue Hour Passenger Boarding Passenger Boa	Wake County, NC	Bus Plan	25	\$6.00	20%				
City Service Provider Boardings per Revenue Hour Passenger Boarding (%) Denver, CO RTD	Core Regional Rou	<u>te</u> Performance Star	ndards						
Portland, OR Tri-Met 15 Miami, FL Miami-Dade County 30s Seattle, WA Sound Transit 25 (all day), 15 (limited service) Wake County, NC Wake Transit Bus Plan (Proposed) 20e \$6 20% Demand-Response Performance Standards City Service Provider Passenger Boarding Passenger Revenue Hour Passenger Boarding (%) Denver, CO RTD 1.5 Portland, OR Tri-Met Miami, FL Miami-Dade County	City	Service Provider	Boardings per						
Miami, FL Miami-Dade County 30.5 Seattle, WA Sound Transit 25 (all day), 15 (limited service) Wake County, NC Wake Transit Bus Plan (Proposed) 20.6 \$6 20% Demand-Response Performance Standards City Service Provider Provider Provider Revenue Hour Passenger Boarding Passenger Boarding (%) Farebox Recovery (%) Denver, CO RTD 1.5 Portland, OR Tri-Met Miami, FL Miami-Dade County	Denver, CO	RTD							
Seattle, WA Sound Transit 25 (all day), 15 (limited service)	Portland, OR	Tri-Met	15						
Wake County, NC Wake Transit Bus Plan (Proposed) Demand-Response Performance Standards City Service Provider City Denver, CO RTD 1.5 Portland, OR Tri-Met Tri-Met Miami, FL Miami, FL Wake Transit Bus Plan (Proposed) Passenger Boardings per Revenue Hour Operating Cost per Passenger Boarding (%) Farebox Recovery (%) Farebox Recovery Farebox Recovery Farebox Recovery Miami-Dade County Tri-Met Miami-Dade County	Miami, FL		30.5						
Wake County, NCBus Plan (Proposed)20.6\$620%Demand-Response Performance StandardsCityService Provider Provid	Seattle, WA	Sound Transit							
City Service Provider Passenger Revenue Hour Operating Cost per Passenger Boarding (%) Denver, CO RTD 1.5 Portland, OR Tri-Met Miami, FL Miami-Dade County	Wake County, NC	Bus Plan	20.6	\$6	20%				
City Service Provider Boardings per Revenue Hour Passenger Boarding (%) Denver, CO RTD 1.5 Miami, FL Miami-Dade County	Demand-Response	Performance Stand	ards						
Portland, OR Tri-Met Miami, FL Miami-Dade County	City	Service Provider	Boardings per						
Miami, FL Miami-Dade	Denver, CO	RTD	1.5						
County	Portland, OR	Tri-Met							
Seattle, WA Sound Transit N/A N/A N/A	Miami, FL								
	Seattle, WA	Sound Transit	N/A	N/A	N/A				

⁵ Passengers pertrip

⁶ Passengers pertrip

Wake Transit Plan - Wake Transit Bus Plan

Wake County, NC	Wake Transit Bus Plan (Proposed)	1.5	\$30	59	6

Sources: TriMet Service Guidelines Framework (2014), RTD Transit Service Policies and Standards (2016), Miami-Dade Transit Service Standards (2009)



Engagement Summary Report Section for Service Standards and Performance Guidelines Public Review Draft

Appendix A: Engagement Summary Report

As part of the FY2025-2030 Wake Bus Plan development process, community stakeholders, a core technical team and program staff reviewed the previously adopted Service Standards and Performance Guidelines, which provides Wake Transit program staff with a blue-print for conducting the annual Bus Service Performance review, informs the transit provider's quarterly reporting process, and ultimately is used to help inform investment into future transit services.

- <u>Service design guidelines</u> set consistent standards by service type, so that similar types of service are implemented the same way across the county.
- Performance measures track and report on the productivity of individual routes and the overall network.

This combined framework sets a clear, consistent, and equitable investment strategy that is understandable to Wake Transit's stakeholders, including transit riders, transit operators, elected officials, and the taxpayers.

Throughout the COVID-19 pandemic, Wake County fixed-route transit operators have suspended fare collection on all routes making fare collection a moot performance metric. It has been removed from the updated policy.

A notable addition to the policy was made in direct response to increased public and agency attention to ensuring equitable transit services throughout Wake County. The

Performance Measures Current Proposed · Operating Cost per Passenger Service Quality Boarding · On-time performance · Passenger Boardings Per Hour Service Effectiveness · Cost per rider · Farebox Recovery · Riders per hour/trip · On-Time Performance Service Impact Reduction in standards for routes with increased impact

Service Impact Benefit provides reduces the route performance standard by a set amount for those routes that have a high community impact by providing regular transit access to transportation disadvantaged community members.

The draft Wake Bus Plan: Service Standards and Performance Guidelines was recommended by the TPAC's Program Development Subcommittee on October 24, 2023. It is being released, along with an update to the Wake Bus Plan: ADA Funding Policy, for a 14-day public review and comment period from November 6th-November 20th, 2023. This engagement effort is being conducted in accordance with the Wake Transit Community Engagement Policy.

Members of the community can visit https://www.goforwardnc.org/wake-county/get-involved/ to view documents available for public review and other Wake Transit-related outreach and communications activities. On that page, you can submit questions and comments to the planning team as well as sign up to receive emails for future Wake Transit program updates and activities.

This section, Engagement Summary Report, will be updated with information and comments collected during the public review period to be provided to the CAMPO and GoTriangle governing boards prior to their consideration for adoption.

AGENDA ACTION ITEM



Connecting all points of the Triangle

Submitted by: Saundra Freeman, Scott Thomas

Meeting date: January 24, 2024

SUBJECT: Financial Review RFP

Strategic Objective or Initiative Supported

- Create and adopt financial management and oversight policies to include debt management and capital and operating reserves
- Establish new budget accountability and expenditure forecasting process

Staff Recommendations

Authorize the President/CEO to award a contract to Deloitte Consulting for Financial Process and Enhancement Services for FY2024, with a maximum dollar amount of \$493,756 and execute the contract consistent with those terms.

Adopt budget ordinance amendment 2024 0001.

Item Summary

GoTriangle issued an RFP seeking consultants to provide insight in several areas including (1) operational analysis; (2) budget development; (3) financial reporting and (4) forecasting and projecting methods.

Deloitte Consulting was the team recommendation to provide these services.

Vendor	Prime Home Office Location	Prime Local Office Location	Prime DBE/MWBE Status	Subcontractor DBE/MWBE Firms
Deloitte Consulting	Arlington, VA	Morrisville, NC	N/A	Under discussion with Deloitte

Financial Impact

The total project cost is \$493,756. The project will be locally funded by GoTriangle and will require a budget amendment (attached).

Attachments

- Budget change impact
- Budget ordinance amendment 2024 0001

FY24 Budget GoTriangle Budget Amendment #1 Impact

Reserve/Cash

	<u>Revenue</u>	<u>Expenditures</u>	<u>Impact</u>	<u>Comments</u>
FY24 Adopted Budget	\$73,362,288	\$74,609,039	(\$1,246,751)	
Increase Expense		493,756	(493,756)	Increase due to cost of contract for Financial Process and Enhancement Services
Revised FY23 Budget	\$73,362,288	\$75,102,795	(\$1,740,507)	
Change	-	\$493,756	(\$493,756)	

GoTriangle FY2024 BUDGET ORDINANCE AMENDMENT

BE IT ORDAINED by the Research Triangle Regional Public Transportation Authority Board of Trustees:

Section 1. It is estimated that the following revenues will be available in the **General Fund** for the fiscal year beginning July 1, 2023, and ending June 30, 2024:

	Original	Revised
Undesignated Fund Balance Appropriated	\$ 2,651,146	\$ 2,700,522
Operating Transfer from Major Transit Investment Fund	12,755,375	13,199,755
Vehicle Registration Tax	6,911,520	6,911,520
Investment Earnings	440,000	440,000
Prior Year Carryforward	1,307,295	1,307,295
Durham allocation	293,450	293,450
Orange allocation	114,100	114,100
Wake allocation	219,500	219,500
GTCR	111,155	111,155
Indirect Cost Credits	<u>1,707,931</u>	<u>1,707,931</u>
Total	\$ 26,511,472	\$ 27,005,228

Section 2. The following amounts hereby are appropriated in the **General Fund** for the management of the Authority and its activities for the fiscal year beginning July 1, 2023, and ending June 30, 2024:

	Original	Revised
Board of Trustees	\$ 207,987	\$ 207,987
Executive Office	1,144,292	1,144,292
Communications & Public Affairs	1,014,677	1,014,677
Administration	521,768	521,768
Human Resources	891,830	891,830
Finance	2,563,912	3,057,668
EEO/DBE	200,362	200,362
Legal	945,279	945,279
Johnston County	111,155	111,155
Real Estate	451,114	451,114
Capital Development	744,745	744,745
Unemployment Claims	50,000	50,000
Plaza	552,600	552,600
Operating Transfer to Bus Fund	14,069,413	14,069,413
Operating Transfer to Rideshare Fund	572,836	572,836
Operating Transfer to Bus Capital Fund	1,832,071	1,832,071
Operating Transfer to Advanced Technology Fund	<u>637,431</u>	<u>637,431</u>
Total	\$ 26,511,472	\$ 27,005,228

Section 3. It is estimated that the following revenues will be available in the **Ridesharing Fund** for the fiscal year beginning July 1, 2023, and ending June 30, 2024:

	Original	Revised
Regional TDM grant	\$ 963,731	\$ 963,731
Reimbursements from other local authorities	966,479	966,479
Wake allocation	6,400	6,400
Transfer from General Fund	<u>572,836</u>	<u>572,836</u>
Total	\$ 2,509,446	\$ 2,509,446

Section 4. The following amounts hereby are appropriated in the **Ridesharing Fund** for the fiscal year beginning July 1, 2023, and ending June 30, 2024:

	Original	Revised
Regional Services - Planning	\$ 515,124	\$ 515,124
Sustainable Travel Services	856,782	856,782
Regional Call Center	<u>1,137,540</u>	<u>1,137,540</u>
Total	\$ 2,509,446	\$ 2,509,446

Section 5. It is estimated that the following revenues will be available in the **Regional Bus Service Fund** for the fiscal year beginning July 1, 2023, and ending June 30, 2024:

	Original	Revised
NCDOT Grant Revenue	\$ 2,800,000	\$ 2,800,000
Federal Grant Revenue	1,600,000	1,600,000
Transit Service Revenue – Bus	7,308,992	7,308,992
Transit Service Revenue – Paratransit	558,502	558,502
Bus accident reimbursement	40,000	40,000
Paratransit Service Revenue	466,423	466,423
Operating Transfer from General Fund	<u>14,069,413</u>	14,069,413
Total	\$ 26,843,330	\$ 26,843,330

Section 6. The following amounts hereby are appropriated in the **Regional Bus Service Fund** for the fiscal year beginning July 1, 2023, and ending June 30, 2024:

	Original	Revised
Bus supervision	\$ 3,714,719	\$ 3,714,719
Bus operations	12,737,028	12,737,028
Bus maintenance	6,002,386	6,002,386
Vanpool	263,097	263,097
Paratransit services	<u>4,126,100</u>	<u>4,126,100</u>
Total	\$ 26.843.330	\$ 26.843.330

Section 7. Copies of this Budget Ordinance shall be furnished to the Clerk to the Board of Trustees and to the Budget Officer of this Authority to be kept on file for their direction in the disbursement of funds.

ATTEST:	ADOPTED THIS THE 24 TH DAY OF JANUARY 2024.
Michelle C. Dawson, Clerk to the Board	Brenda Howerton, Board of Trustees Chair



BOARD OF TRUSTEES OPERATIONS COMMITTEE MEETING MINUTES

4600 Emperor Boulevard Suite 100 Durham, NC 27703

Wednesday, January 3, 2024

2:00 p.m.

Remote | Microsoft Teams

Board members present | Corey Branch, Patrick Hannah, Vivian Jones, Michael Parker

Board members absent | Valerie Jordan

GoTriangle President/CEO Chuck Lattuca called the meeting to order at 2:03 p.m. A quorum was present.

I. Election of Committee Chair

Lattuca asked for nominations for committee chair.

Action: Hannah nominated Michael Parker for committee chair. The motion was seconded by Branch. Upon vote the motion was carried unanimously.

II. Election of Committee Vice Chair

Committee chair Parker asked for nominations for vice chair.

Action: Jones nominated Corey Branch for committee vice chair. The motion was seconded by Parker. Upon vote the motion was carried unanimously.

III. Adoption of Agenda

Action: A motion was made by Branch and seconded by Hannah to adopt the agenda. Upon vote the motion was carried unanimously.

IV. Task Order for Bus Stop Design

Bong Vang's presentation is attached and hereby made a part of these minutes. He provided an overview of the bus improvement program and the scope of services for task order 5 with Kittelson & Associates. He added that each stop can take from 9 to twenty-four months depending on whether property must be acquired and if coordination with NCDOT and utility companies is needed. Vang also said that GoTriangle has committed to completing stop improvements to 50 bus stops in both fiscal years 2024 and 2025 and 75 in FY2026 for a total investment of \$10.5 million.

Lattuca added that this is an aggressive schedule and is funded through the Durham Transit Plan.

Branch asked who owns the stops. Gary Tober, Director of Real Estate, responded if right-of-way is acquired, the transit access easement is conveyed to Durham. He said GoTriangle is acting as Durham's agent. Branch then asked about condemnation. Tober explained that condemnation is not used in the bus stop improvement program. If a property owner is

unwilling to participate the improvement plan is adjusted, the stop relocated or left unimproved. Branch asked if there are other alternatives for improvements in such cases. Vang replied, yes, semi-seats might be used if a bench cannot be installed.

Branch then asked if the stops on the list are owned by GoTriangle or the City of Durham. Meg Scully stated those numbers are not readily available, but it is a mix. She added that only a few GoTriangle stops remain unimproved. Jay Heikes clarified that the Durham Transit Plan has funded improvements for all the stops within Durham County that are not part of a city-sponsored project. He said this is unique from funding in the other county transit plans. The following information was provided following the meeting in response to the question:

The following table identifies the transit agencies that use the 111 bus stops that have been improved in Durham County by GoTriangle with funding through the Durham County Transit Plan. It includes the 56 stops in the Kittleson Construction Task Order 5.

Agency serving stop	Number of stops	Status of bus stop improvement
GoDurham	95	Completed
GoDurham	52	In Kittelson TO5 to be constructed
GoTriangle	2	Completed
GoDurham and GoTriangle	13	Completed
GoDurham and GoTriangle	4	In Kittelson TO5 to be constructed
GoDurham and Duke Transit	1	Completed

Action: A motion was made by Hannah and seconded Branch by to recommend the Board authorize the President/CEO to execute a task order with Kittelson & Associates under Contract 21-076C Design Services for Bus Stop Improvements: Durham County Task Order 5 for FY2024, with a maximum dollar amount of \$844,270. Upon vote by roll call, the motion was carried unanimously.

V. GoTriangle Short Range Transit Plan

Jay Heikes' presentation is attached and hereby made a part of these minutes. He stated that throughout the past ten months there has been extensive internal coordination with multiple departments including operations and frontline operators, as well as partner transit agencies, local governments and institutional partners. This Short Range Transit Plan combines the three county transit plans, the Wake Bus Plan, performance data, and other analyses into a roadmap for bus service improvements for the next five years.

Short Range Transit Plan Goals

- Ensure reliable service
- Respond to ridership trends
 - o Increase all-day service frequency in high-demand corridors
 - Add weekend service
 - Increase evening service
- Broad trip purposes served by GoTriangle

- Convert peak-only regional service to consistent all-day service
- o Reorient and strengthen peak-only express routes

Short Range Transit Plan Recommendations

- 15 minute frequent service in high demand corridors
 - o Route 100X Raleigh-RTP-Durham
 - o Route 400 Durham-Chapel Hill
- Add weekend service
 - o Route 305 Raleigh-Tryon Road-Apex-Holly Springs
 - o Route 310 Cary-RTP
 - RDU shuttle [Sunday]
- Increase evening service
 - o Route 100X Raleigh-RTP-Durham
 - o Route 300 Raleigh-Cary
 - o Route 305 Raleigh-Tryon Road-Apex-Holly Springs
 - o Route 400 Durham-Chapel Hill
 - o RDU shuttle
- Convert peak-only regional service to consistent all-day service
 - o Route 305 Raleigh-Tryon Road-Apex-Holly Springs
 - o Route 805 Chapel Hill-Woodcroft- Southpoint
 - Route DRX Durham-Raleigh express
 - o Route ZWX Raleigh-Wendell-Zebulon
- Reorient and strengthen peak-only express routes
 - Route 311 Apex-RTP
 - o Route 420 Hillsborough-Chapel Hill
 - Route CRX Chapel Hill-Raleigh express
 - Route ODX Orange-Durham express

Heikes also shared a summary of engagement activities and materials, noting that 750 online surveys responses were received and over 1,200 in-person interactions. Additionally print materials were distributed to 250 organizations and community facilities and 25 in-person events were held.

Key findings

- 63% said proposed changes would make it easier to ride the bus
- 20% were neutral about the changes
- 10% said changes would make it more difficult to ride the bus

Feedback received

- Positive responses
 - Increased frequency
 - Extended service hours
 - o Route 100X more frequent service and one-seat ride
- Concerns expressed
 - o Want more 15-minute service on more routes

- Want changes sooner
- o Want more frequent service to RDU, direct service even
- o Reliability of service
- Mixed responses
 - CRX realignment most supported the change; however, some expressed a
 desire for stops closer to downtown Chapel Hill and over the change of the parkand-ride location
 - o 100X received broad support with concern about first mile/last mile access
 - o DRX most support all-day service; however, some prefer more peak service

Parker asked how much of these changes are accomplished through the reallocation of existing resources and how much is based on increased funding from the three county transit plans. Heikes stated that staff will provide that information.

Action: A motion was made by Branch and seconded by Hannah to recommend board adoption of the GoTriangle Short Range Transit Plan. Upon vote by roll call, the motion was carried unanimously.

VI. Adjournment

Prepared by:

Action: Chair Parker adjourned the meeting at 2:52 p.m.

Michelle C. Dawson, CMC

Clerk to the Board of Trustees



BOARD OF TRUSTEES COMMITTEE ADMINISTRATION & GOVERNANCE MEETING MINUTES

4600 Emperor Boulevard Suite 100 Durham, NC 27703

Wednesday, January 3, 2024

3:00 p.m.

Remote | Microsoft Teams

Board members present | Mary-Ann Baldwin, Susan Evans, Sally Greene, Jennifer Robinson, Leo Williams [arr. 3:18 p.m.]

Board members absent | Valerie Jordan

GoTriangle President/CEO Chuck Lattuca called the meeting to order at 3:08 p.m. A quorum was present.

I. Election of Committee Chair

Lattuca asked for nominations for committee chair. Committee members discussed some of the responsibilities of the committee: organizational structure, how the board governs, board composition related to elected officials as well as the creation of a business advisory board and potential term limits of board members.

Action: Greene nominated Mary-Ann Baldwin for committee chair. The motion was seconded by Evans and upon vote, carried unanimously.

II. Election of Committee Vice Chair

Committee chair Baldwin asked for nominations for vice chair.

Action: Evans nominated Sally Greene for committee vice chair. The motion was seconded by Robinson and upon vote, carried unanimously.

III. Adoption of Agenda

Action: A motion was made by Greene and seconded by Robinson to adopt the agenda. Upon vote by roll call, the motion was carried unanimously.

IV. Wake ADA Policy

Michelle Peele's presentation is attached and hereby made a part of these minutes. She presented two administrative documents to support how fixed route operations are funded by Wake Transit:

- ADA funding policy
 - o Individual transit agencies receive 15% of their Wake Transit Plan fixed route costs for ADA paratransit trips
 - Higher reimbursements may be requested with justification [significant increases in the number of eligible riders, increased trips taken per rider, higher service delivery costs]
- Service guidelines and performance measures
 - o Service quality: On-time performance

- Service effectiveness: cost per rider and riders per hour/trip
- Service impact: reduction in standards for routes with higher community impact [serving historically disadvantaged communities]

Action: A motion was made by Robinson and seconded by Greene to recommend board adoption of the Wake Transit ADA Policy and Service Guidelines and Performance Measures. Upon vote by roll call, the motion was carried unanimously.

VIII. Adjournment

Action: Chair Baldwin adjourned the meeting at 3:31 p.m.

Prepared by:
Michalla C. Dawson, CMC
Michelle C. Dawson, CMC



December 2023

CEO's Monthly
Executed Contracts

The CEO shall have the power and authority without Board approval but within budgetary and other limitations established by the Authority, to enter into and execute contracts for and on behalf of the Authority for construction, alterations, supplies, equipment, repairs, maintenance, and services; and for the purchase, sale, or lease of any property. The CEO shall report monthly to the Board the actions taken pursuant to this authority.

	Construct	tion/Repair Projec	ts		Prof	essional And Non-F (Incl. Oper. L		vices	Appara	Purchase and l atus, Supplies, M		ipment
Cost Threshold	<\$10,000	\$10,000 - <\$50,000	\$50,000 - <\$500,000	\$500,000 and above	<\$10,000	\$10,000 - <\$50,000	\$50,000 - <250,000	\$250,000 and above	<\$10,000	\$10,000 - <\$90,000	\$90,000 - <\$250,000	\$250,000 and above
	BID AND SOL	ICITATION PROVISI	ONS:									
Bid/Proposal Type	N/A	Informal Bid	Formal Bid	Formal Bid	N/A	Informal Quotes/RFP	Formal RFP	Formal RFP	N/A	Informal Bid	Formal Bid	Formal Bid
Number of Bids Required	One or more	Attempt To Get 3 or more bids	Attempt To Get 3 or more bids	3 required on 1st ad; if 2nd ad-no specific requirement	One or more	Attempt To Get 3 or more quotes	Attempt To Get 3 or more proposals	Attempt To Get 3 or more proposals	One or more	Attempt To Get 3 or more bids	Attempt To Get 3 or more bids	Attempt To Get 3 or more bids
Advertisement on Website	No	\$30K and over	\$30K and over	Required 7-full days prior to bid opening	No *** (see NOTES below)	\$30K and over, 14- days prior to due date	14-days prior to due date	14-days prior to due date	No	Yes	Required 7-full days prior to bid opening	Required 7-full days prior to bid opening
<u>coi</u>	NTRACT HANDLIN	G AND APROVAL F	PROVISIONS:									
Contract and Routing Required?	>\$3,500 PO Required	Yes	Yes	Yes	>\$3,500 PO Required	Yes	Yes	Yes	>\$3,500 PO Required	Usually PO	Usually PO	Usually PO
Approval By	Dept / Manager	Dept / Director CEO	Dept / Director CEO	Board	Dept / Manager	Dept / Director CEO	Dept / Director CEO	Board	Dept / Manager	Dept / Director CEO	Dept / Director CEO	Board
Executed By	Dept / Manager	CEO	CEO	CEO	Dept / Manager	CEO	CEO	CEO	Dept / Manager	CEO	CEO	CEO

All Federal Funding Procurements Shall Go Through the Procurement Department Regardless Of Dollar Amount

NOTES: MWBE/DBE GOOD FAITH EFFORTS ARE REQUIRED FOR ALL OF THE ABOVE.

*** ALL PROFESSIONAL DESIGN SERVICES (architectural, engineering, design, surveying, & construction management at risk) ARE REQUIRED TO BE ANNOUNCED (ADVERTISED AT ANY DOLLAR LEVEL) - Non- Professional Services do not need to be advertised at this dollar amount. (However, for projects where the professional service fee is less than \$50,000, GoTriangle can exempt itself in writing with approval by the CEO for locally funded projects. Submit requests to Procurement Department.)

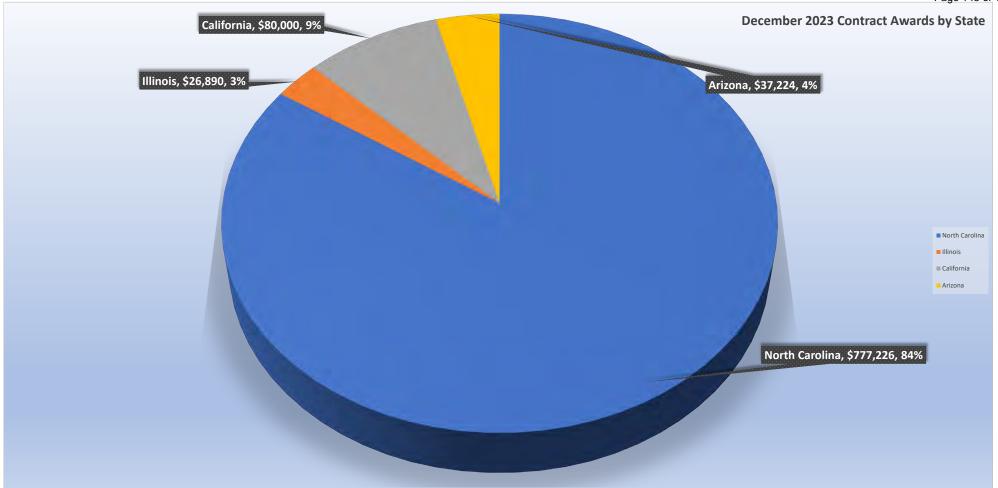
Gasoline, Diesel Fuel, Alcohol Fuel	No \$ Limits		Approval
Motor Oil or Fuel Oil		Attempt To Get 3 or more quotes	CFO
GS 143-129 Gas, Fuel and Oil- Purchases of Gasoline, Diesel Fuel, Alcohol Fu	el, Motor Oil, Fuel Oil or Natural G	as are	
not subject to the formal bidding requirements. These purchases are subjec	t to the informal procedures of GS	3 143-131	
Informal threshold is \$30,000-\$90,000			

December 2023-Monthly Executed Contracts Report (<250K)



Contract #	Contractor (or subject if no contract listed)	Location	Contract Amount	Subject	DBE/MWBE/HUB Business FTA DBE Goal 13.57%	COMMENTS	CEO Executed Date
1372	Velocity Truck Centers	3500 Yonkers Rd Raleigh, NC 27604	\$50,000	ВРО	N/A	Parts	12/3/2023
1373	Gillig	PO Box 45569 San Francisco, CA 94145	\$80,000	ВРО	N/A	Parts	12/3/2023
1366	Couch Oil Company Of Durham	PO Box 2753 Durham, NC 27715-2753	\$5,000	ВРО	N/A	Parts	12/3/2023
1375	Trapeze	5265 Rockwell Drive NE Cedar Rapids, IA 52402	\$26,890	Maintenance	N/A	Maintenance Agreement	12/5/2023
1376	Whitley Contracting, Inc	5735 Brogden Rd Smithfield, NC 27577	\$16,800	Repair	DBE/WBE/HUB	Bus Stop Improvements	12/8/2023
23-081	City of Raleigh	PO Box 590 Raleigh, NC 27602	\$575,100	Survey	N/A	ILA Agreement	12/18/2023
1385	Creative Business Interiors	8720 Fleet Service Drive Raleigh, NC 27617	\$26,326	Renovation	N/A	Professional Services	12/19/2023
1394	City of Raleigh	PO Box 590 Raleigh, NC 27602	\$104,000	Easement	N/A	Easement Agreement	12/27/2023
1395	QCM Technologies, Inc.	9060 E. Via Linda, Suite 220 Scottsdale, AZ 85258	\$37,224	Maintenance	N/A	Maintenance Agreement	12/27/2023

Total \$921,340



Thursday, January 4, 2024 1:23:58 PM

All Executed Contracts

December 2023

Contractor	Executed Date	Contract No	Amount	Department				
<u>Trapeze</u>	12/20/2023	07-010	\$6,900.00	Bus Operations				
Amendment No. 10- Trapeze/TripSp	ark-CAD/AVL-OPS							
Department Bus Operations								
<u>Trapeze</u>	12/5/2023	1375	\$26,890.00	Bus Operations				
Number of Workstations : 1 Up to 58 Peak Vehicles Coverage period 2/1/2024 - 1/31/20	25							
Department Bus Operations		_						
			\$33,790.00					
<u>CPL</u>	12/13/2023	20-076	\$0.00	CapDev				
20-076 REGIONAL FLEET AND FACILITIES STUDY-Amendment Two								
Department CapDev								
Whitley Contracting, Inc	12/8/2023	1376	\$16,800.00	CapDev				
BUS STOP SIMME SEAT AND SOLAR PANEL INSTALLATION								
Department CapDev		_						
			\$16,800.00					
Creative Business Interiors	12/19/2023	1385	\$26,326.25	Facilities				
Second Floor Renovations								
Department Facilities								

						Page 146 of 169
Contractor		Executed Date	Contract No	Amount	Department	
City of Raleigh a	nd CAMPO	12/21/2023	23-058	\$0.00	Legal	
Special Capital F	unding Agreement for Bus Rapid	Transit				
Planning						
Department	Legal					
City of Raleigh		12/21/2023	23-051	\$0.00	Legal	
General Capital F	Funding Agreement for Bus Acqui	sition				
Department	Legal					
City of Raleigh		12/21/2023	23-055	\$0.00	Legal	
Special Capital F	unding Agreement for Bus Infrast	ructure				
Department	Legal					
<u>City of Raleigh</u>		12/19/2023	23-044	\$0.00	Legal	
General Operatir	ng Funding Agreement for Transit	Plan				
Administration						
Department	Legal					
Town of Knightd	ale and CAMPO	12/14/2023	23-057	\$0.00	Legal	
	unding Agreement for Bus Infrast ding Area Program	ructure				
Department	Legal					
•	own of Cary and CAMPO	12/21/2023	23-059	\$0.00	Legal	
	g Funding Agreement Web Hostii				-3	
Maintenance of		ng ana				
Department	Legal					
City of Raleigh		12/21/2023	23-049	\$0.00	Legal	
General Capital A	Agreement for Bus Infrastructure					
Department	Legal					
Town of Cary		12/26/2023	21-072	\$0.00	Legal	
	FY22 Special Capital Funding Ag	reement				
For Bus Infrastru	cture					
_						

Department

Legal

Contractor	Executed Date	Contract No	Amount	Department	Page 147 of 169
			\$0.00		
Couch Oil Company Of Durham	12/3/2023	1366	\$50,000.00	Maintenance	
BPO-Fluids					
Department Maintenance					
Gillig	12/3/2023	1373	\$80,000.00	Maintenance	
BPO-Parts					
Department Maintenance					
<u>Velocity Truck Centers</u>	12/3/2023	1372	\$50,000.00	Maintenance	
BPO-Parts					
Department Maintenance					
Petroleum Traders Corporation	12/6/2023	1368	\$5,612.24	Maintenance	
Fuel					
Department Maintenance	40.40.40.00	40.00	******		
Petroleum Traders Corporation	12/6/2023	1368	\$13,991.30	Maintenance	
Fuel					
Department Maintenance	12/12/2022	1270	¢10.211.60	Maintanana	
Petroleum Traders Corporation	12/13/2023	1370	\$19,211.60	Maintenance	
Fuel Maintenance					
Department Maintenance Petroleum Traders Corporation	12/19/2023	1371	\$18,143.29	Maintenance	
Fuel	12/13/2023	1371	\$10,143.23	iviaiiiteiiaiite	
Department Maintenance					
Petroleum Traders Corporation	12/20/2023	1387	\$19,458.99	Maintenance	
Fuel	12/20/2023	1307	φ 1.5, 1. 50.55	Mantenance	
Department Maintenance					
Department					

						Page 148 of 169
Contractor		Executed Date	Contract No	Amount	Department	
Petroleum Trade	<u>rs Corporation</u>	12/27/2023	1391	\$18,038.99	Maintenance	
Fuel						
Department	Maintenance					
Griffin Chemical	CO LLC	12/4/2023	137	\$4,306.61	Maintenance	
Fluids						
Department	Maintenance					
Petroleum Trade		12/4/2023	1367	\$21,810.87	Maintenance	
	is Corporation	12/4/2023	1307	\$21,010.07	Maintenance	
Fuel						
Department	Maintenance		_		_	
				\$300,573.89		
QCM Technolog	es, Inc.	12/27/2023	1395	\$37,224.29	Marketing	
23-085 Maintena	nce Agreement-Mecatran-Gaslar	mp Feb 2024-Jan 2025				
Department	Marketing					
Берагипен	Warketing		_	\$37,224.29		
				\$51, 224.2 9		
Town of Cary		12/19/2023	23-083	\$0.00	Real Estate	
Property Sale						
Department	Real Estate					
City of Raleigh		12/27/2023	1394	\$104,000.00	Real Estate	
	truction Ecomont Agroomant (TC			7		
· · ·	truction Easement Agreement (TC	LE)				
Department	Real Estate				_	

\$104,000.00

					Page 149
Contractor	Executed Date	Contract No	Amount	Department	
City of Raleigh	12/18/2023	23-081	\$575,100.00	TOD	
City of Raleigh-Reimbursement Agreement-On-be Origin Destination Survey	oard				
Department TOD					
			\$575,100.00		
<u>Enterprise</u>	12/20/2023	17-066	\$0.00	Transit Partnerships	
Amendment Two-Contract Extension					
Department Transit Partnerships		_		_	
			\$0.00		
35		-	\$1,125,244.86	_	



Connecting all points of the Triangle

HUMAN RESOURCES BOARD REPORT - JANUARY 2024

NEW HIRES

Kameeka Johnson - Transit Operator Krystal Graves - Transit Operator Marcus McKnight – Transit Operator Tyrone Lawson Jr – Transit Operator Wongtsu Henriques - Transit Operator Christopher Whitaker - Transit Operator Anthony Jones - Maintenance Tech II Yohance Rawlins - Maintenance Tech II Quanshaun Morgan - Transit Operator

SERVICE AWARDS

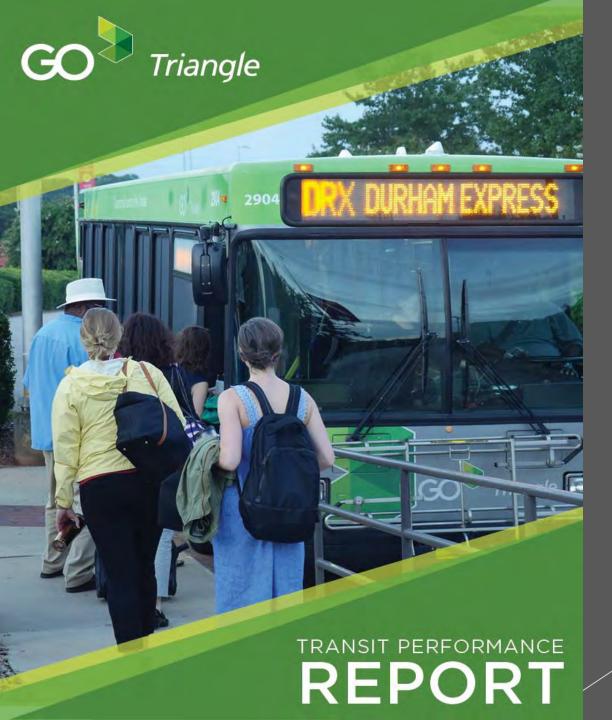
George Hodgin - Maintenance Training Supervisor 20 Years Bridgette Dunston - Office Assistant 10 Years

PROMOTIONS

Jay W. Heikes, Transit Service Planning Manager Effective Date 01/08/2024

RECRUITING

Transit Operator – Part Time & Full Time Human Resources Generalist Maintenance Supervisor Transit Service Supervisor



December 2023



Fixed Route

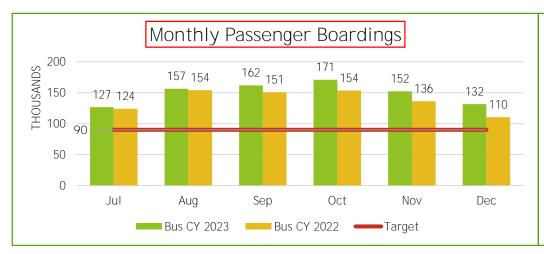
Consists of vehicles operating along a defined route on a consistent schedule

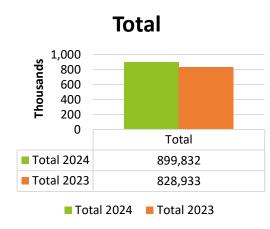
Fixed Route Year-to-Year Summary

	YTD 2024	YTD 2023	Dec 2023	Dec 2022
Passenger Boardings	899,832	828,933	131,552	110,390
Passengers/Revenue Hour	16.3	16.4	14.7	13.3
On-Time Performance	78.9%	83.8%	82.4%	84.2%
Total Mechanical Failures	144	92	16	13
Mean Distance Between Failures	75,471	122,157	213,567	169,826
Bus Total Miles	1,358,478	1,086,787	213,567	169,826
Collisions per 100,000 Revenue Miles	0.58	0.65	0.00	0.00
Verified Complaints per 100,000 Passengers	2.8	2.7	4.6	3.6

Passenger Boardings

- Defined as the number of times passengers board public transportation vehicles
- ► All years shown are the fiscal year of the latest month

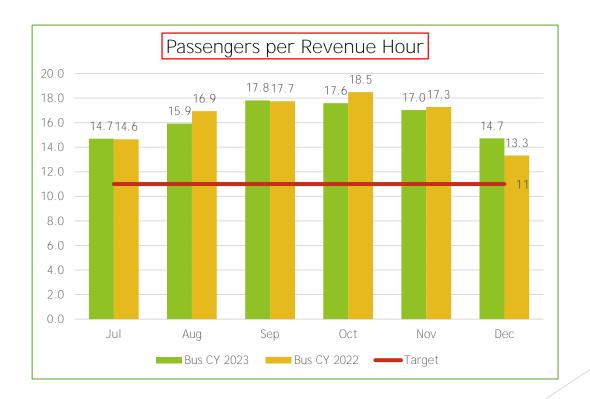






Passengers per Revenue Hour

Measures total fixed route bus ridership, divided by total fixed route bus revenue service hours



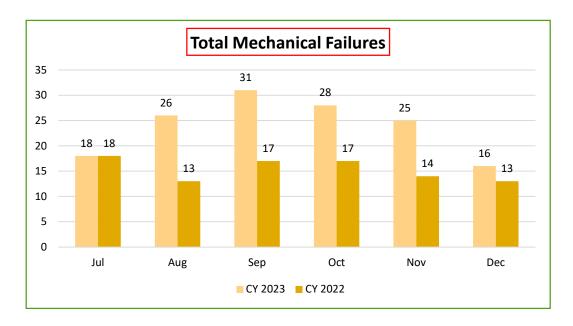
On-Time Performance

Measures on-time performance of fixed route bus service. On-time is defined as bus arrival at the stop between one minute early and five minutes late.



Mechanical Failures

Measures the total number of mechanical failures, major and other, of the bus fleet.

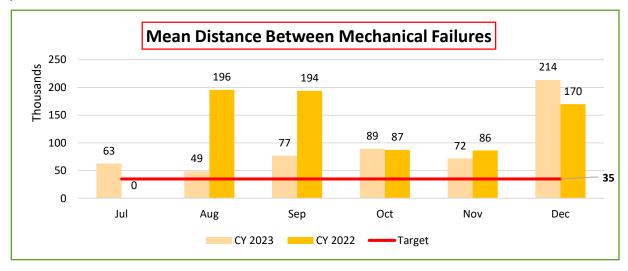


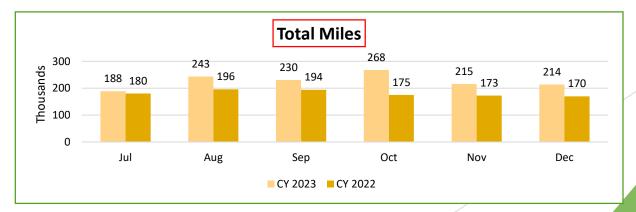
CY 2023									
	Jul	Aug	Sep	Oct	Nov	Dec			
Major	3	5	3	3	3	1			
Other	15	21	28	25	22	15			
Total	18	26	31	28	25	16			

CY 2022								
	Jul	Aug	Sep	Oct	Nov	Dec		
Major	0	1	1	1	2	1		
Other	18	12	16	16	12	12		
Total	18	13	17	17	14	13		

Mean Distance Between Failures

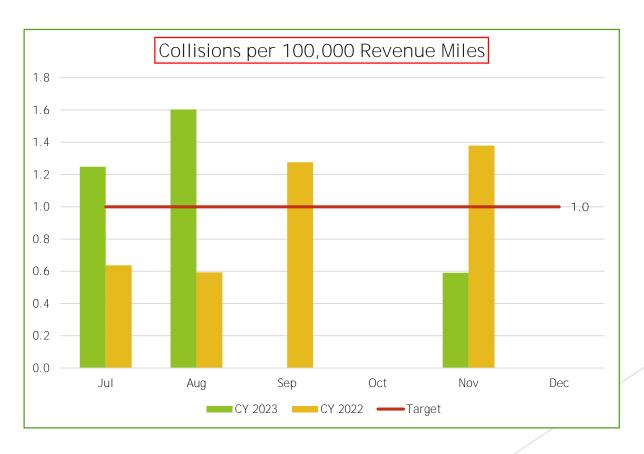
Measures the miles between major mechanical failures on the fixed route fleet (Note: Higher Bus Mean Distance Between Failures is better.)





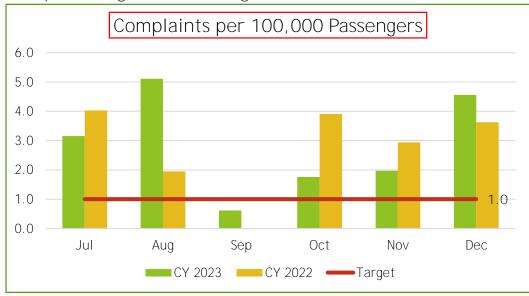
Collisions per 100,000 Revenue Miles

Measures the number of preventable collisions involving bus service per 100,000 miles.



Customer Satisfaction

Measures verified customer complaints about bus service per 100,000 bus passenger boardings.







Paratransit

ADA service where passengers request trips and vehicles respond to the request.

Paratransit Year-to-Year Summary

	Dec 2023	Dec 2022	YTD 2024	YTD 2023
Passenger Boardings	2,803	2,438	20,052	17,152
Passengers/Revenue Hour	1.8	1.8	1.8	1.9
On-Time Performance	87.7%	0.0%	89.7%	88.9%
Total Mechanical Failures	1	1	4	2
Mean Distance Between Failures	No failures	No failures	No failures	No failures
ACCESS Total Miles	46,396	63,203	332,392	343,328
Collisions per 10,000 Revenue Miles	0.0	0.0	0.2	0.00
Verified Complaints per 1000 Passengers	0.0	0.0	0.25	0.17

Passenger Boardings

Defined as the number of times passengers board public transportation vehicles







Passengers per Revenue Hour

Measures total ridership, divided by total service hours.



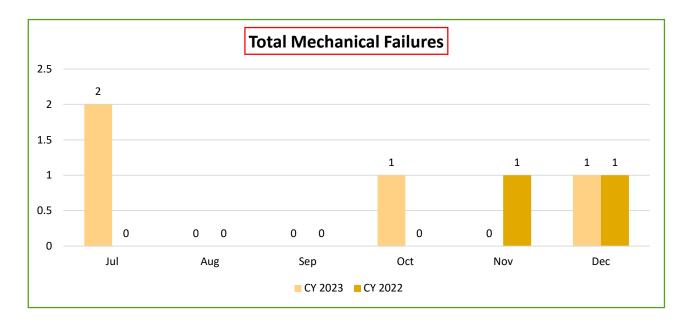
On-Time Performance

Define as being picked up between 15 minutes before and 15 minutes after requested pickup time.



Mechanical Failures

Measures the total number of mechanical failures, major and other, of the paratransit fleet.



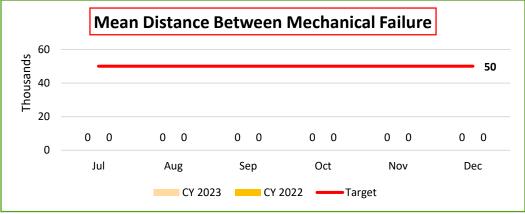
CY 2023									
	Jul	Aug	Sep	Oct	Nov	Dec			
Major	0	0	0	0	0	0			
Other	2	0	0	1	0	1			
Total	2	0	0	1	0	1			

CY 2022								
	Jul	Aug	Sep	Oct	Nov	Dec		
Major	0	0	0	0	0	0		
Other	0	0	0	0	1	1		
Total	0	0	0	0	1	1		

Mean Distance Between Failures

Measures the miles between major mechanical failures on the Paratransit fleet. (Note: Higher Mean Distance Between Failures is

better.)

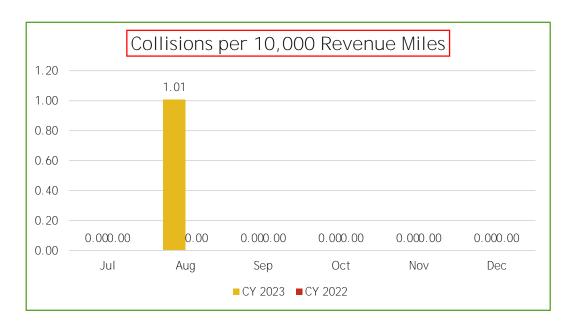


(0 indicates no mechanical failures for the month. There were no failures for July.)



Collisions per 10,000 Revenue Miles

Measures the number of preventable collisions involving paratransit service per 10,000 miles.



Customer Satisfaction

Measures verified customer complaints about paratransit service per 1,000 passenger boardings.

