GO Triangle

Quarterly Update

Durham County

October 1, 2018

Introduction

- Dedicated Transit Revenues
- Transit Plan Capital Improvements
- GoTriangle Short-Range Plan
- Durham-Orange Light Rail Transit Project

Success Starts with Partnerships



Richard Major
Capital Development

Terry Bellamy
Transportation Dept.

Patrick Young
City-County Planning

Better Bus Stops Program; Capital Projects Oversight

Approve Plans, Projects, Budgets and Schedules; Tactical Transit!

New Streamlined
Development
Review Process



Better Bus Stops

A stakeholder-driven, data-supported approach to development of a methodology for prioritizing bus stop improvements:

- Continue providing clean, attractive, innovatively designed bus stops and transit facilities
- Focus on customers' safety, security, mobility, opportunity and accessibility
- Compliance with Title VI and Environmental Justice requirements
- Community Participation is Key!





PURPOSE

Provide equitably prioritized bus stop improvements and amenities that are safe, secure and accessible.



GOAL

- Adopt Better Bus Stops Initiative
- Identify Prioritization Method
- · Flexible decision making
- Compliance with Title VI and EJ
- Continuous community feedback
- · Assessment of all stops
- · Attractive, well-maintained bus stops
- Align BBS & Bus Stop Guidelines



OBJECTIVES

- Increase the Ridership
- Incorporate Innovations
- Positive Image of Transit
- Culture of Safety
- Strengthen Partnerships
- Deliver Reliable Service
- Customer-Friendly Experience
- Engaged Community
- Attractive & Accessible Environment



STRATEGY

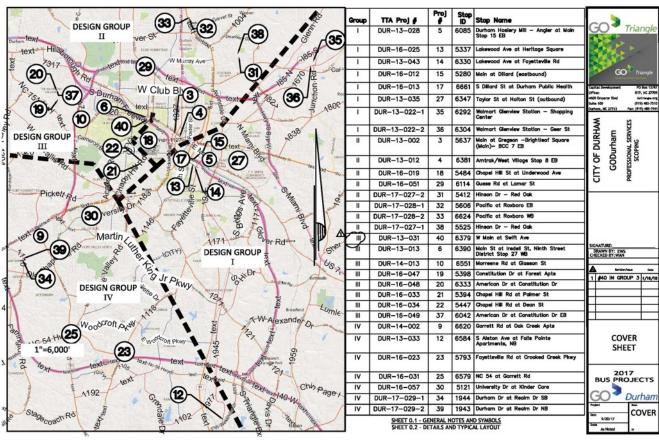
- Team Kickoff Meeting: FY19 Q2
- Prepare WBS and ICE: FY19 Q2
- Hire Consultant: FY19 Q3
- Bus Stops Inventory: FY19 Q3
- Adopt BBS Policy: FY19 Q4
- Update BBS Process: Recurring

Initial meeting with cross-functional team will be held in October

On-Call Services to Design 31 Bus Stops

The City of Durham signed a multi-year contract for On-Call Professional Services with fourteen engineering firms to provide technical support for the three year period beginning in March 2016. A list of prioritized bus stop locations was then approved by the Transportation Department; and Supplemental Agreements were executed with four On-Call firms to design 31 bus stops.





Schedule for Design of 31 Durham Bus Stops

Selected Four Engineering Firms

- A. Morton Thomas Assoc.
- Gannett Fleming

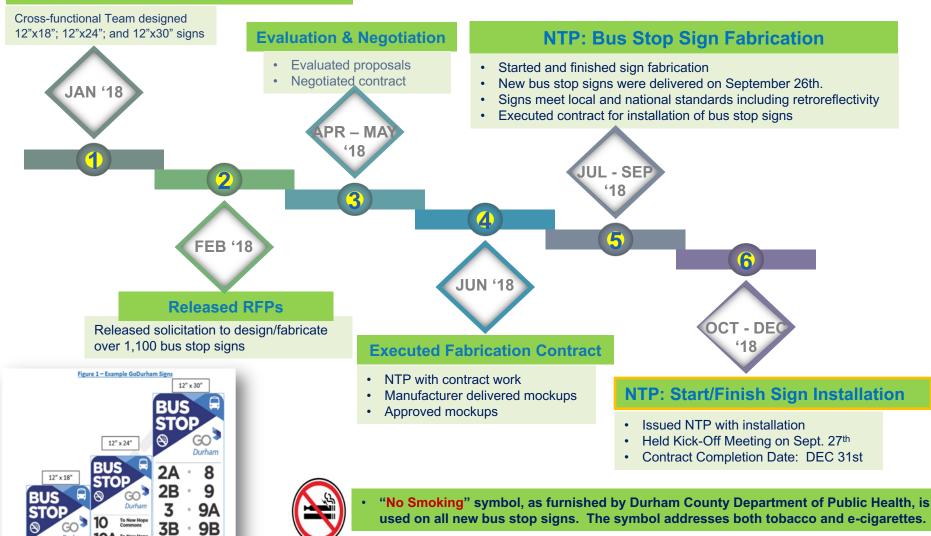


Note: The General Contractor will be given immediate NTP with construction as site plans are approved .

Furnish construction cost estimates
Furnish construction permits

GoDurham Bus Stop Sign Replacement

Created Custom Sign Concept Design





Problem Solving



Through Teamwork & Partnering



Addressing the Need for Amenities

Problem:

Support City of Durham Transportation Director, Mr. Terry Bellamy, with implementation of "Tactical Transit", which is a deliberate, phased approach to instigating change; an offering of local ideas for local planning challenges; short-term commitment, realistic expectation and a low-risk, with possibly a high reward.



Standard Bench



Simme-Seat Bench

Solution & Benefits

Tactical Transit emphasizes identification of bus stop locations that have a critical need for improvements and expedited implementation of those improvements. This is especially important where Title VI and Environmental Justice objectives can be achieved.

This resulted in the following:

- Purchased and installed 18 standard benches
- Installed 4 new bus shelters with benches
- Installed 25 pole-mounted "Simme-Seat" benches
- Purchased 10 solar-light kits for retrofit into bus shelters
- Identified funding for purchase and installation of an additional 25 Simme-Seat benches
- Received formal thanks from riders, businesses and other stakeholders.
- Identify 50 bus stops for priority improvements

Reducing Bus Stop Design Costs

Problem Solving:

The cost to design a GoDurham bus stop, using the former Development Review process, averaged between \$15K and \$22K. Accordingly, the Development Review process was revised; and we sought to identify and implement an innovative procurement process.



Solution & Benefits

The City of Durham's Transportation Director recognized the benefit of reducing the scope-of-services to design bus stops, and approved a new approach to hiring firms. The FTA also approved our proposed solution.

- Reduce the Scope of Services: Rather than assign all 31 bus stops to one firm, we split the package into four groups.
- Concurrent Design: By assigning eight or so sites to four engineering firms, we achieved concurrent designs
- Benefits: Ensures that the work, which would normally take up to eighteen months, can be accomplished within 6 months
- Cost Reduction: By using smaller groups, we reduced the amount of time required to obtain approvals through Durham's new Development Services Center.

By negotiating individual agreements with four On-Call firms, and performing concurrent designs, our estimated cost was reduced from \$580K to \$368K. This amount represents a 36% reduction in estimated design costs!

Budget Status Report FY19 Stop Improvements

| Cost Category | FY19 Budget | Contract Amount |
|-----------------------------------|-------------|-----------------|
| Real Estate | \$0 | \$0 |
| Design & Engineering (See Note 1) | \$580,000 | \$368,000 |
| Construction | \$366,000 | (See Note 2) |
| Oversight/Management | \$51,398 | \$51,398 |
| Total Capital Costs | \$997,398 | |

Notes

- 1. Design cost savings will be reinvested into related bus stop improvements.
- 2. Construction contract costs will be determined before approval of designs.

Durham and Orange Revenue

| Durham | | |
|---|--|--|
| | | |
| Article 43 Half-Cent Sales and Use Tax | | |
| Article 50 Five-Percent Vehicle Rental Tax | | |
| Article 51 Three-Dollar Increase to Regional Vehicle Registration Fee | | |
| Article 52 Seven-Dollar County Vehicle Registration Fee | | |
| Total Dedicated Local Revenues | | |

| 2017 | | 2018 | | |
|------------------------------------|------------------|------------------------------------|------------------|--|
| Transit Plan Revenue Projection | Revenue Actuals* | Transit Plan Revenue Projection | Revenue Actuals* | |
| \$27.15 M | \$27.15 M | \$28.58 M | \$29.89 M | |
| \$1.17 M | \$1.22 M | \$1.22 M | \$1.25 M | |
| \$0.70 M | \$0.69 M | \$0.72 M | \$0.69 M | |
| \$1.62 M | \$1.61 M | \$1.68 M | \$1.62 M | |
| \$30.6 M | \$30.7 M | \$32.2 M | \$33.5 M | |

| Orange | | |
|---|--|--|
| | | |
| Article 43 Half-Cent Sales and Use Tax | | |
| Article 50 Five-Percent Vehicle Rental Tax | | |
| Article 51 Three-Dollar Increase to Regional Vehicle Registration Fee | | |
| Article 52 Seven-Dollar County Vehicle Registration Fee | | |
| Total Dedicated Local Revenues | | |

| 2017 | | 2018 | |
|---------------------------------|-----------------|------------------------------------|------------------|
| Transit Plan Revenue Projection | Revenue Actuals | Transit Plan Revenue Projection | Revenue Actuals* |
| \$6.69 M | \$6.85 M | \$7.00 M | \$7.34 M |
| \$0.57 M | \$0.60 M | \$0.60 M | \$0.61 M |
| \$0.35 M | \$0.33 M | \$0.36 M | \$0.33 M |
| \$0.81 M | \$0.78 M | \$0.84 M | \$0.77 M |
| \$8.4 M | \$8.6 M | \$8.8 M | \$9.1 M |

Transit Plan Revenue Projections for 2017 and 2018 based on:

- Half-Cent Sales and Use Tax Moody's analytics forecasts
- Five-Percent Vehicle Rental Tax Dr. Michael Walden (NCSU) forecasts
- Three-Dollar Increase to Regional Vehicle Registration Fee Dr. Michael Walden (NCSU) forecasts
- · Seven-Dollar County Vehicle Registration Fee Dr. Michael Walden (NCSU) forecasts



^{*} FY18 revenue is based on un-audited actuals.

Purpose of the Short Range Transit Plan

- Provide a roadmap for transit in Durham County that incorporates a regional approach to mobility
- Define appropriate methods to serve both urban and rural needs in Durham County
- Integrate light rail into the future transit network in Durham County

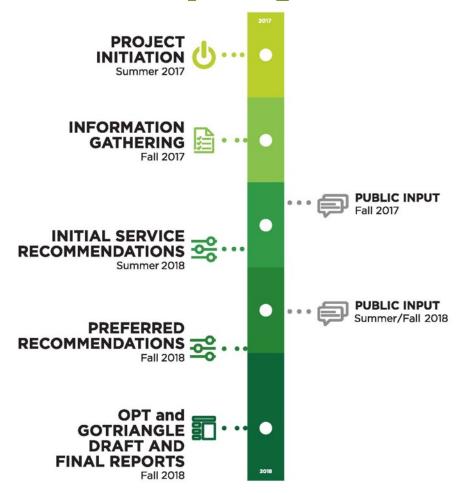
Short Range Transit Plan Goals

- Make service faster and more competitive
- Provide more frequent service
- Provide more all-day service

GoTriangle Short-Range Transit Plan

| Route # | Name | Operator | Future Route # | Proposal S | Start Year |
|--|---------------------------------|------------|-------------------|--|------------|
| 400 | Durham-Chapel Hill | GoTriangle | 400 | More direct, faster service between Durham and Chapel Hill. Service to SW Durham Dr would be removed. Other providers would cover that section. Along with Route 405, 15 minute service at peak | FY20 |
| 405 | Durham-Chapel Hill- Carrboro | GoTriangle | 405 | Would serve Patterson Place. Along with Route 400, 15 minute service at peak | e FY20 |
| 700 | Durham-RTC | GoTriangle | 700 | Direct service between Durham Station and RTC | FY20 |
| 800 | Chapel Hill-Southpoint-RTC | GoTriangle | 800 | A consistent pattern would be provided. Route 800 would tak I-40 at all times and not use NC 54 in the middle of the day, nights, and weekends. Service on NC 54 would be provided by Route 805 and GoDurham services | |
| 800S | Chapel Hill-Southpoint | GoTriangle | 800S | No changes | W. |
| 805 | Chapel Hill-Woodcroft-RTC | GoTriangle | 805 | Some underutilized reverse-peak direction trips will be remove | ed FY20 |
| DRX | Durham-Raleigh Express | GoTriangle | DRX | No changes | |
| ODX | Orange-Durham Express | GoTriangle | ODX | Increased frequency from hourly to 30 minute at peak and a streamlined pattern using I-85 and I-40 instead of US-70 | FY21 |
| North Durham/ Rougemont Vanpool Services | | | | Vanpool services to serve Northern Durham | FY20 |

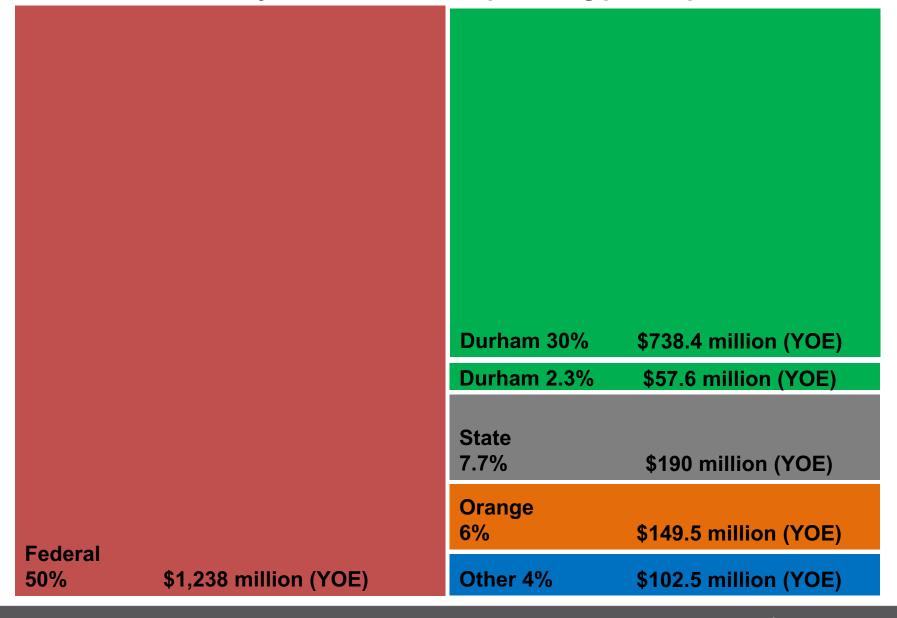
What are the project timelines?



Light Rail Update

- Still on track for a federal investment of over \$1 billion through anticipated grant agreement (FFGA) in September 2019.
- Letters confirmed plans to commit additional dedicated transit revenues from Durham County.
- Cost sharing agreement and transit plan updates anticipated January-February.

D-O LRT Project: \$190 million cap funding plan / updated





Tentative GoTriangle Federal Grant (FFGA) Schedule

- Anticipated execution of \$1.238 billion grant agreement in September 2019.
- Apply for grant agreement by April 2019.
- Execute remaining critical agreements and commit remaining non-CIG funding by early 2019.
- Risk Assessment tentative for October 2018.

Critical Agreements

- Working with our partners to execute agreements critical for the FFGA.
- Universities NCCU, Duke, UNC
- Utilities AT&T, PSNC, Duke Energy
- Municipalities Durham and Chapel Hill
- Railroads Norfolk Southern and NCRR
- Durham VA Health Care System



Supplemental Environmental Assessment

- Supplemental Environmental Assessment (SEA) expected to be published end of October.
- SEA evaluates proposed refinements to the Light Rail design including:
 - Blackwell/Mangum Station, Gateway Station shift, Erwin Rd elevation, Pettigrew St adjustments, MLK Jr. Station park and ride, Shannon Rd underpass, Patterson Place Station shift, Alston Ave adjustments

Erwin Road

Challenges:

- Unique utilities beneath the road
- Emergency access to medical centers
- Avoiding expensive property impacts and impacts to strategically important facilities

Proposed Solution:

 Elevated structure from LaSalle east along Erwin and beyond. Elevated stations at LaSalle & Duke/VA Medical Centers.



Pettigrew Grade Crossings

Challenge:

 The abrupt change from sloping roadways to flat tracks at railroad crossings in downtown Durham would make it possible for large vehicles to bottom out near the tracks.

Proposed Solution:

 Raise the elevation of Pettigrew and connecting roadways to more closely match freight track elevation.



Blackwell Street

Challenge:

 Raising Pettigrew and connecting roadways at Blackwell St could cause significant impacts to the Old Bull Building, a national historic landmark.

Proposed Solution:

 Close Blackwell St at the railroad crossing in downtown Durham. Develop a mitigation to maintain bike and pedestrian connectivity.



Dillard Street

Challenge:

 Railroad gate timing and coordination in downtown Durham poses challenges to vehicular, pedestrian, and Light Rail traffic at the Dillard St railroad crossing.

Proposed Solution:

 One-way Dillard St southbound at the railroad crossing to reduce the potential for traffic conflicts and gate timing issues.

The Downtown Loop (Ramseur)

- SEA includes proposal to two-way the Loop from Dillard to Chapel Hill St.
- Provides westbound access for buses and other vehicles.
- Helps Durham achieve a major objective with matching federal funds as a part of the Light Rail Project.

Operations & Maintenance Facility

- GoTriangle seeking rezoning with a development plan, Future Land Use Map amendment, and annexation.
- Planning Commission hearing on October
 9; Durham City Council action to follow.
- Project schedule requires action by the end of the calendar year.

Design Schedule

- The design has surpassed the 50% milestone and is progressing toward 90%.
- Informal over-the-shoulder reviews with third-party stakeholders are ongoing.
- 90% design anticipated by summer 2019.
- 100% design milestones anticipated beginning in November 2019.

DBE Participation

| | Amount |
|--------------------------------------|---------|
| Total DBE Firms Engaged [#] | 28 |
| Total DBE Participation to Date [\$] | \$9.7 M |
| Total DBE Participation to Date [%] | 11% |

Note: Table reflects amounts approved for payment through August 31, 2018 and includes contracts with the Project Development Consultant, General Engineering Consultant, Program Management Consultant, and Construction Management Consultant.

On track toward reaching DBE goals for the three primary consulting contracts:

- 14% for the GEC
- 14% for the PMC
- 15% for the CMC

Workforce Development

- Local sources of labor limit risks related to Light Rail construction costs.
- A broader coalition is needed to implement a robust workforce development program for the Light Rail Project.
- Significant opportunity for sustainable jobs is a large part of the return on Durham's investment in Light Rail.

Light Rail & Affordable Housing

- 2 out of every 3 DHA homes are in a Light Rail station area.
- Of roughly 11,000 Durham housing units in a station area, 15-20% are legally-binding affordable housing.
- Durham is planning for the future of affordable housing in downtown Light Rail station areas.

GO Triangle

Questions