



Durham-Orange Light Rail Transit Project

DCHC MPO Board
August 8, 2018

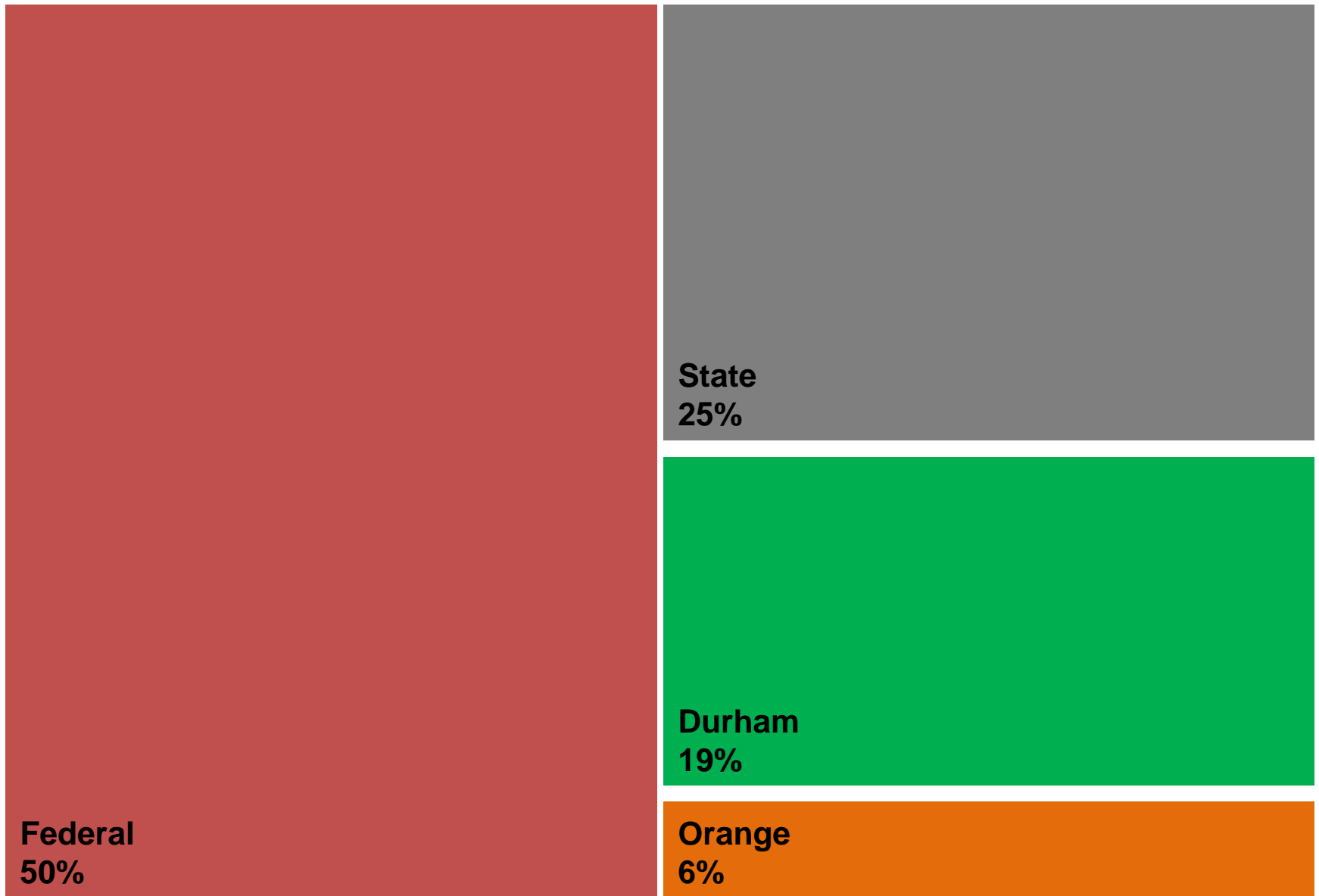
Staying on Track

- We're still on track for a federal investment of over a billion dollars in our region.
- Changes to State law have created new funding challenges
- To stay on track, FFGA critical tasks must be completed by the end of 2018.
- Design, cost, budget, and schedule all play roles in determining FFGA outcome. Third-party coordination creates significant schedule risk.
- Requesting input on two proposed project design changes

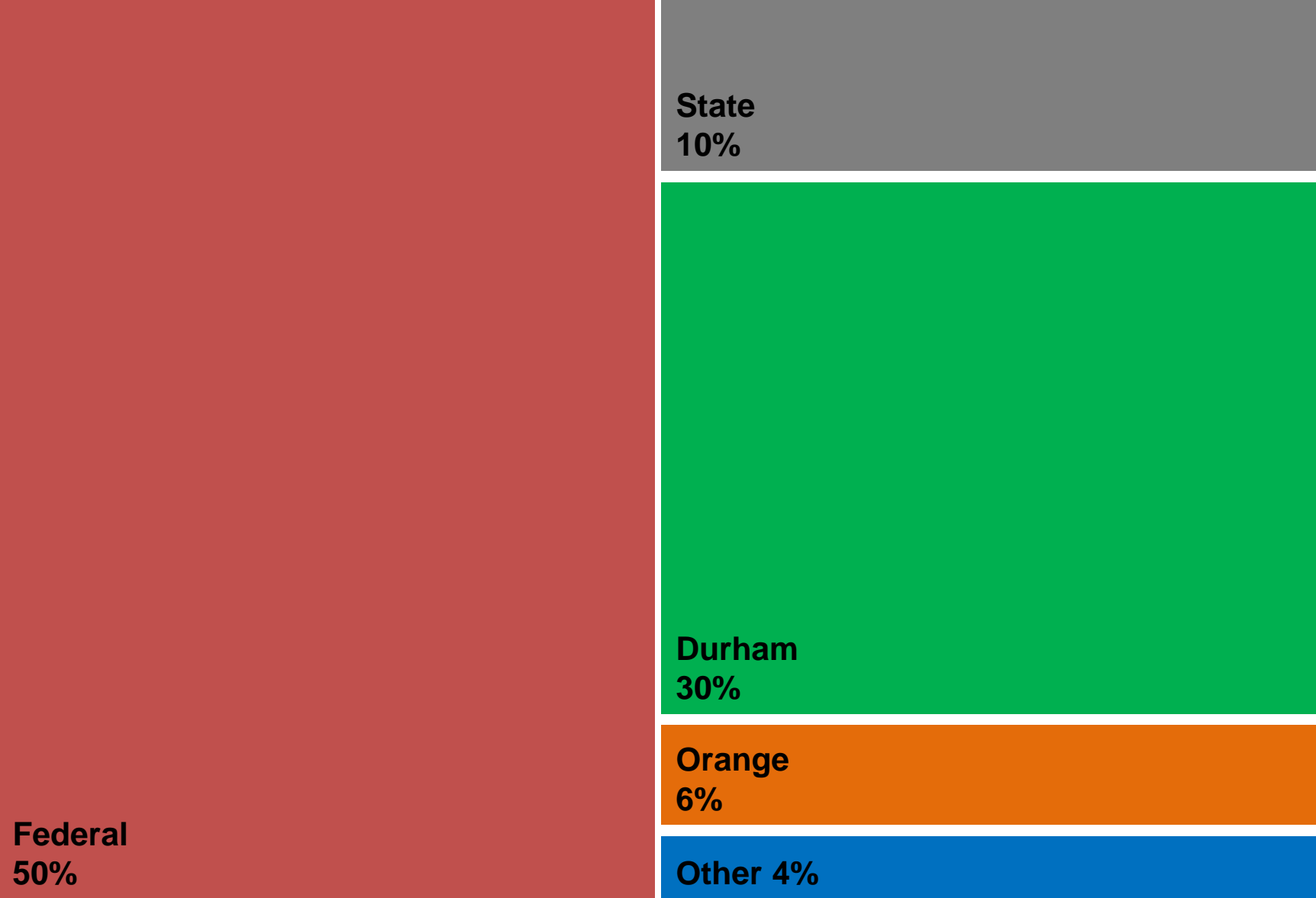
Funding update

- Fiscal Year 2019 state budget required D-O LRT Project to secure all non-State funds (including federal funds) before entering SPOT process
- Session Law 2018-97 (the FY2019 budget “technical corrections” bill) removed provision but added new restrictions:
 1. \$190 million cap for State funding (down from approx. \$247.6 million)
 2. **April 30, 2019** deadline for securing all non-State and non-Federal funds (e.g. local tax revenues & private)
 3. **November 30, 2019** deadline for securing all non-State funds (e.g. federal FFGA)

D-O LRT Project: Original funding plan



D-O LRT Project: STI 10% cap funding plan



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

State
7.7% **\$190 million (YOE)**

Durham
30% **\$738.4 million (YOE)**

Orange
6% **\$149.5 million (YOE)**

Other
6.3% **\$102.5 + \$57.6 million (YOE)**

Federal
50% **\$1,238 million (YOE)**

Funding update

- Changes in State law leave a \$57.6 million gap
- GoTriangle is working with its partners on ways to fill that gap
- Also working expeditiously to meet the April and November 2019 deadlines, which are consistent with our existing FFGA application dates

Critical Agreements

- To remain eligible for FY19 FFGA, all critical commitments and agreements must be obtained by the end of 2018.
- GoTriangle will enter into additional agreements following FFGA application

Critical Agreements by end of 2018

- **Universities**
 - Duke University
 - NCCU
 - UNC
- **Local government**
 - City of Durham
 - Town of Chapel Hill
- **Railroad**
 - Norfolk Southern
 - NCRR
- **Private utilities**
 - AT&T
 - Duke Energy
 - PSNC Energy
- **Federal**
 - Durham/VA Medical Center

Pettigrew Street Challenges

- Any costs associated with engineering challenges must be contained within the budget, which is set.
- Coordination with Railroads includes FFQA critical agreements.
- Downtown Durham grade crossings present design/coordination challenges.

Supp. Environmental Assessment

- GoTriangle is completing a supplemental environmental assessment of proposed engineering updates.
- The assessment is scheduled to be released for public comment this fall.
- GoTriangle will work with the FTA to ensure compliance and address impacts.

Economic Growth

The light rail project doesn't just belong to Durham and Orange Counties. It shows incredible potential for short and long-term economic growth in the Triangle and across North Carolina. We need to access our networks to get the word out.

Statewide Impact

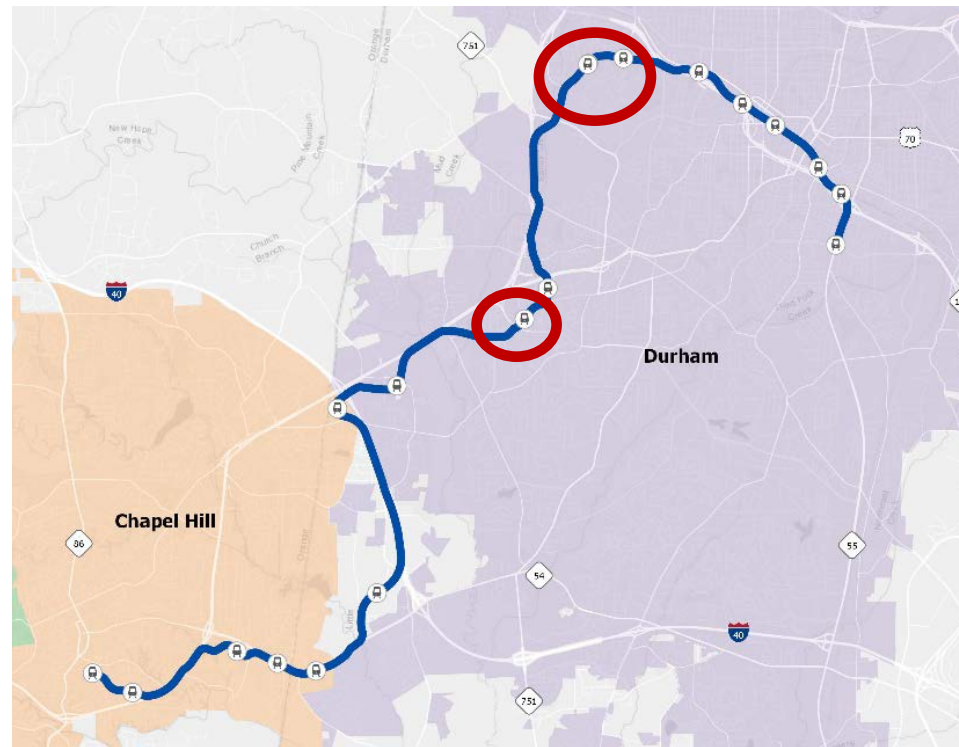
- How have major transit investments benefited Charlotte and Mecklenburg County?
- How will major transit investments benefit Wake County and even Johnston and Alamance Counties?
- How can transit investments statewide promote productivity, efficiency, and sustainable growth?

Value Chain Analysis

- Currently, there are 27 members of the American Public Transportation Association (APTA) in North Carolina. These are major suppliers, designers, and manufacturers of transportation technology.
- These corporations include ABB in Cary, IMPulse in Mount Olive, Heico in Hickory, Saft America in Valdese, and Huesker in Shelby.
- According to NCDOT, there are over 600 material vendors in North Carolina involved in the transit manufacturing supply chain.

Input on two design changes

- MLK Jr. Parkway station park-and-ride
- Erwin Road alignment



MLK Jr. Blvd modifications

- Former vacant commercial development on site now active, increasing acquisition cost
- Reconfigured park-and-ride: Loss of 250 spaces
- **Approximate savings:** \$8-10 million vs baseline
- South Square Station park-and-ride lot being refined to add additional 350 spaces



D-O LRT Project Baseline Scope MLK Jr. Parkway Park-and-Ride

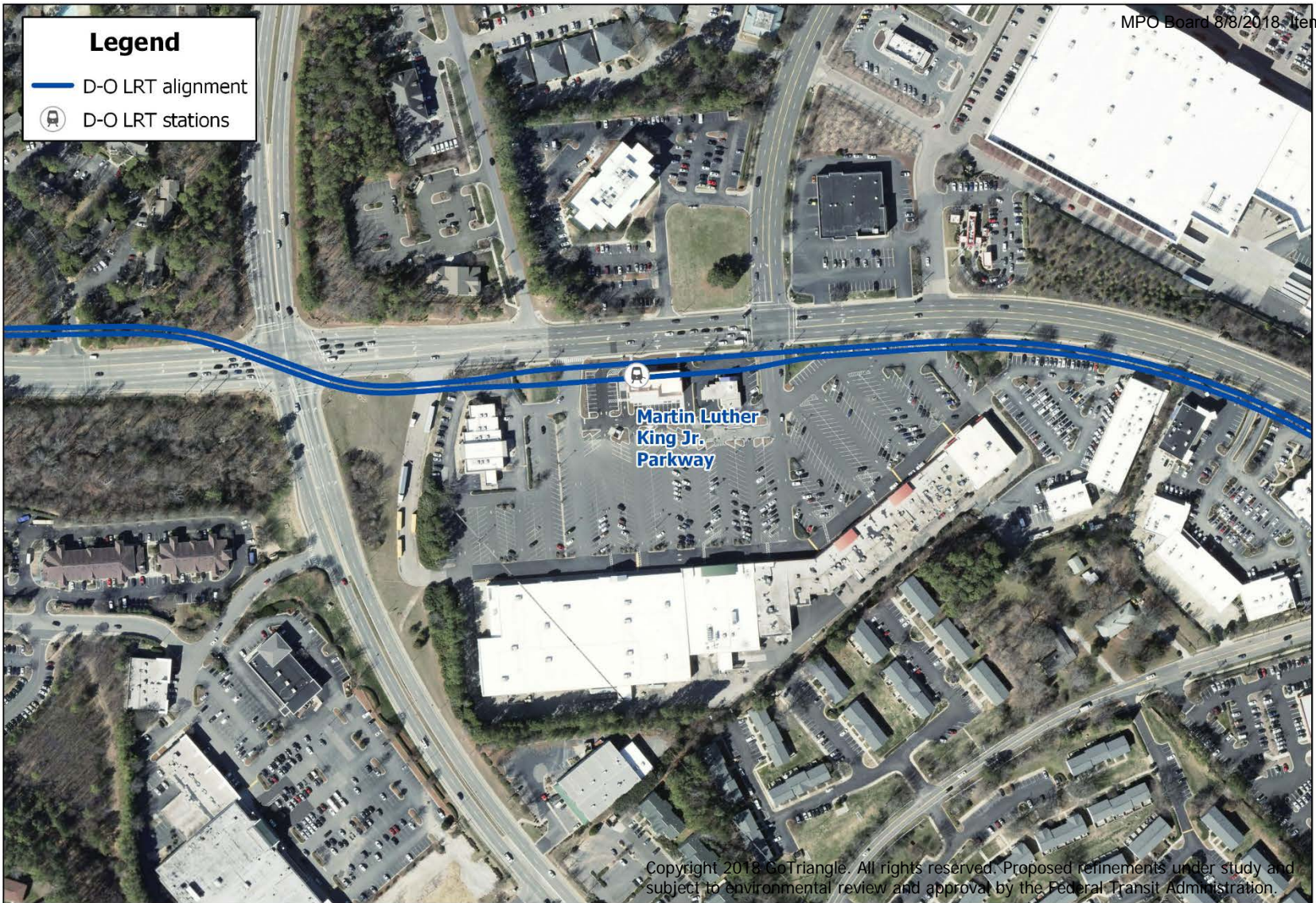


MLK Jr. Parkway station — baseline scenario with removal of At Home store

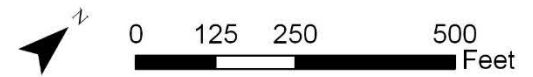
	<p>September 21, 2017</p>		<p>Google earth Data SIO, NOAA, U.S. Navy, NGA, GEBCO Image Landsat / Copernicus Additional Content © GoTriangle 2017</p>	<p>Proposed Martin Luther King Jr. Parkway Station DRAFT for planning purposes only. Subject to change.</p> <p>Illustrative Plan Durham - Orange LRT Corridor</p>
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Legend

-  D-O LRT alignment
-  D-O LRT stations



**D-O LRT Project with Proposed Refinements
MLK Jr. Parkway Station**



Erwin Road challenges

- Emergency access to medical centers
- Unique utilities beneath the road
- Impact of required road widening to Duke property
- Traffic impacts

Erwin Road modifications

- Original alignment along median of Erwin Road, from Cameron Blvd (NC 751) to Anderson St
- Proposed modification
 - South of Erwin Road, at-grade from Cameron Blvd to LaSalle St
 - Transition to elevated and median-running, LaSalle Street to Anderson St
 - Duke/VA Medical Centers station relocated
- **Approximate cost:** \$90 million vs baseline




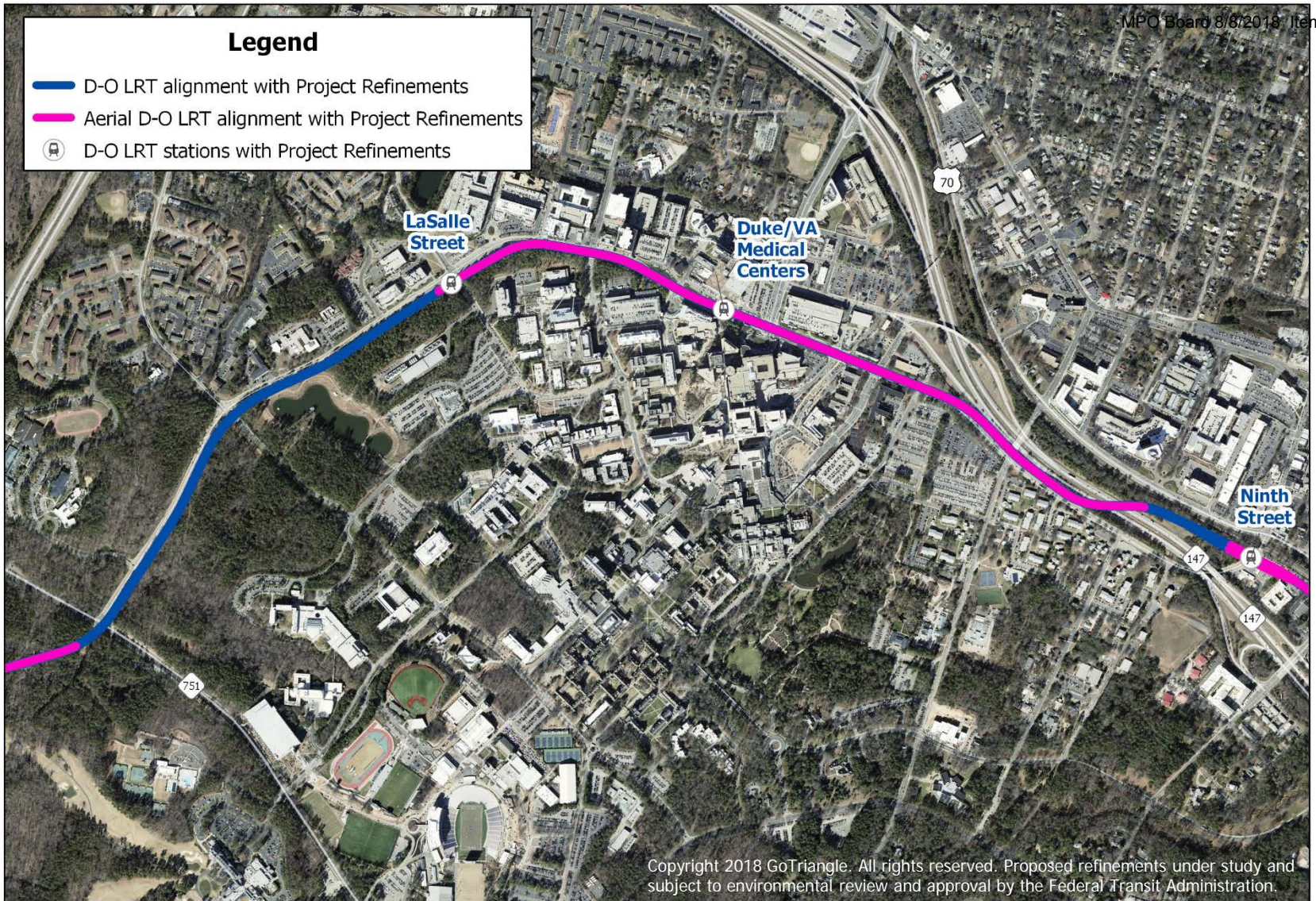
**D-O LRT Project baseline scope
Erwin Road segment**

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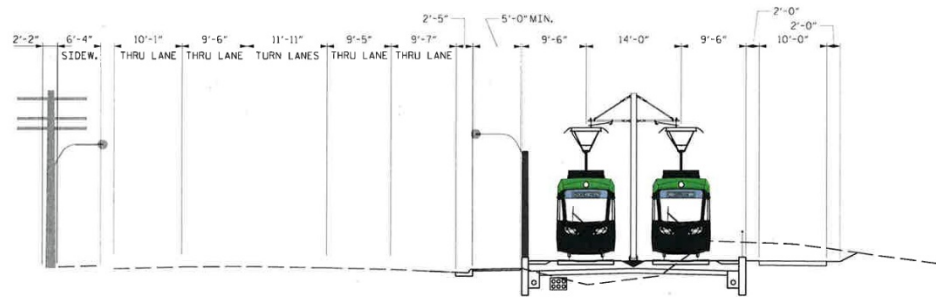
Legend

- D-O LRT alignment with Project Refinements
- Aerial D-O LRT alignment with Project Refinements
-  D-O LRT stations with Project Refinements



**D-O LRT Project with Proposed Refinements
Erwin Road segment**





DUKE CENTER FOR LIVING TYPICAL SECTION
(LOOKING EAST)

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 Path: C:\Users\jgarcia\AppData\Local\Temp\1943\1943.dwg

PRELIMINARY PLANS

DO NOT USE FOR CONSTRUCTION
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES ARE COMPLETED

DESIGNED BY:
WA
DRAWN BY:
BS
CHECKED BY:
ZH
DATE:
2/27/18



HDR Engineering, Inc.
555 Fayetteville Street, Suite 900
Raleigh, NC 27601-3034



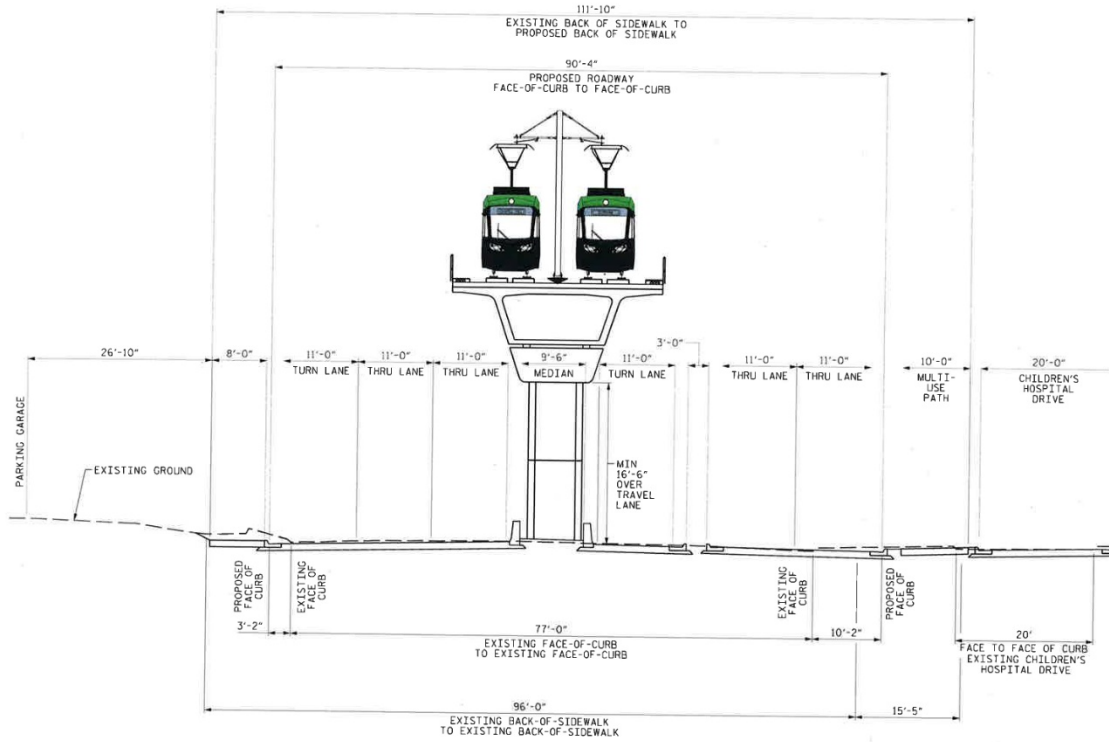
DURHAM-ORANGE LIGHT RAIL TRANSIT PROJECT

**ERWIN ROAD ALTERNATIVE
DUKE CENTER FOR LIVING TYPICAL SECTION
ERWIN ROAD PRELIMINARY DESIGN**

DRAWING NO.: C03-PSH013

SHEET NO.:

REV.



PARKING GARAGE TYPICAL SECTION
(LOOKING EAST)

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PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES ARE COMPLETED

DESIGNED BY: PL	
DRAWN BY: BS	
CHECKED BY: ZH	
DATE: 2-27-18	

HDR
HDR Engineering, Inc.
555 Fayetteville Street, Suite 900
Raleigh, NC 27601-3034

GO Triangle

DURHAM-ORANGE LIGHT RAIL TRANSIT PROJECT
ERWIN ROAD ALTERNATIVE
PARKING GARAGE TYPICAL SECTION
ERWIN ROAD PRELIMINARY DESIGN

DRAWING NO.: C013-PSH18	SHEET NO.:	REV.:
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Questions