











Steering Committee Meeting

Redbud Room, William & Ida Friday Center March 13, 2015

Durham-Orange Light Rail Transit **Project**



Agenda



- Welcome and Introductions
- Meeting Objectives
- Quick Project Update
- What We Study
- Five Key Decisions in DEIS: Reviewing the DATA
- Action Items
- Adjourn

Meeting Objectives





Quick Project Update





What's Changed Since November?

- Results of Data Analysis between UNC Hospitals and Trent/Flowers Stations
- Future Railroad Capacity Requirements defined by NCRR for their Right-of-Way
- Alignment Refined between Trent/Flowers and Alston Ave Stations in Collaboration with NCRR and City of Durham
 - Elevated guideway continues over Swift Avenue
 - Shifts in alignment and station locations
 - Bi-directional Transitway: one-way eastbound automobile traffic on Pettigrew
 Street between Chapel Hill and Dillard Streets
- May 2015: Results of Data Analysis between Trent/Flowers and Alston Avenue
 Stations

Current Schedule & Milestones

PROJECT DEVELOPMENT TASKS	PROJECTED SCHEDULE					
Technical and Communications Advisory, and Steering Committee Meetings: UNC Hospitals to Trent Flowers	February - March 2015					
Open House Public Meetings: UNC Hospitals to Trent/Flowers	March 18 and 19, 2015					
Technical and Communications Advisory, and Steering Committee Meetings: UNC Hospitals to Alston Avenue	May 2015					
Open House Public Meetings: UNC Hospitals to Alston Avenue	June 4 and 6, 2015					

Current Schedule & Milestones



PROJECT DEVELOPMENT TASKS	PROJECTED SCHEDULE
Development of Recommended NEPA Preferred Alternative	April – May 2015
Administrative DEIS submitted to FTA	June 2015
45-day Public Review and Comment Period on DEIS	Sept – Oct 2015
Publication of the FEIS /ROD by FTA	Feb 2016

What We Study



- Transit Ridership
- Regional Travel Patterns
- Capital & Operating Costs
- Noise / Vibration
- Cultural & Historic Resources
- Public Parklands
- Natural Resources
- Energy Use
- Traffic
- Utilities
- Air Quality

- Water Quality
- Land Use
- Bicycle & Pedestrian Facilities
- Visual & Aesthetic
- Minority & Low-Income Population Impacts
- Neighborhoods
- Business & Residential Impacts
- Population Served
- Employment Served
- Construction Impacts



Five Key Decisions
In

"Project Development"

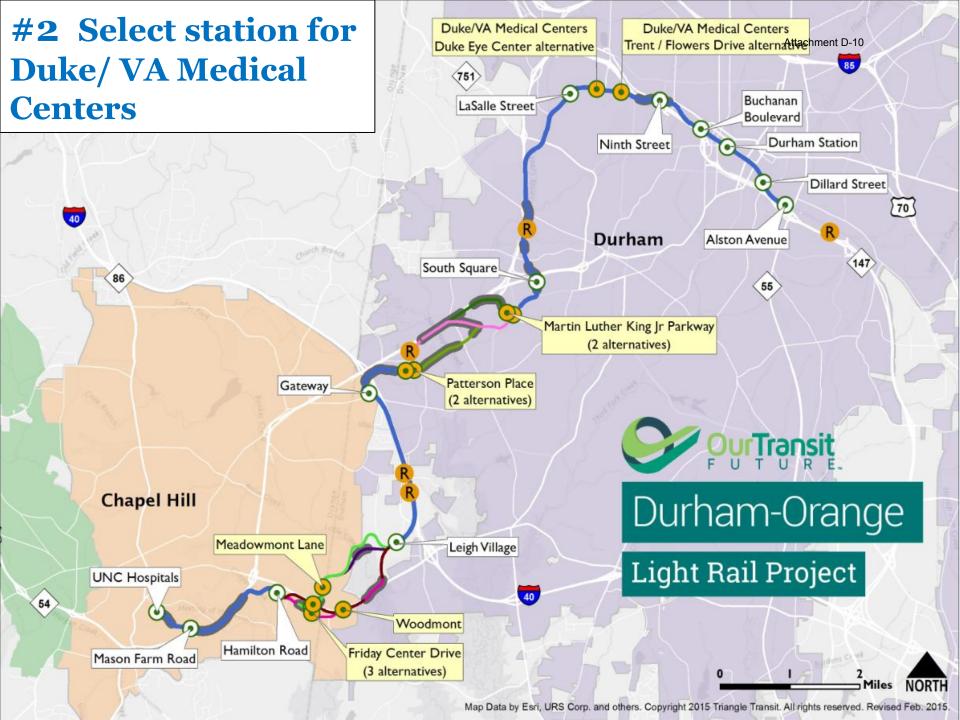
#1- To Build or Not to Build

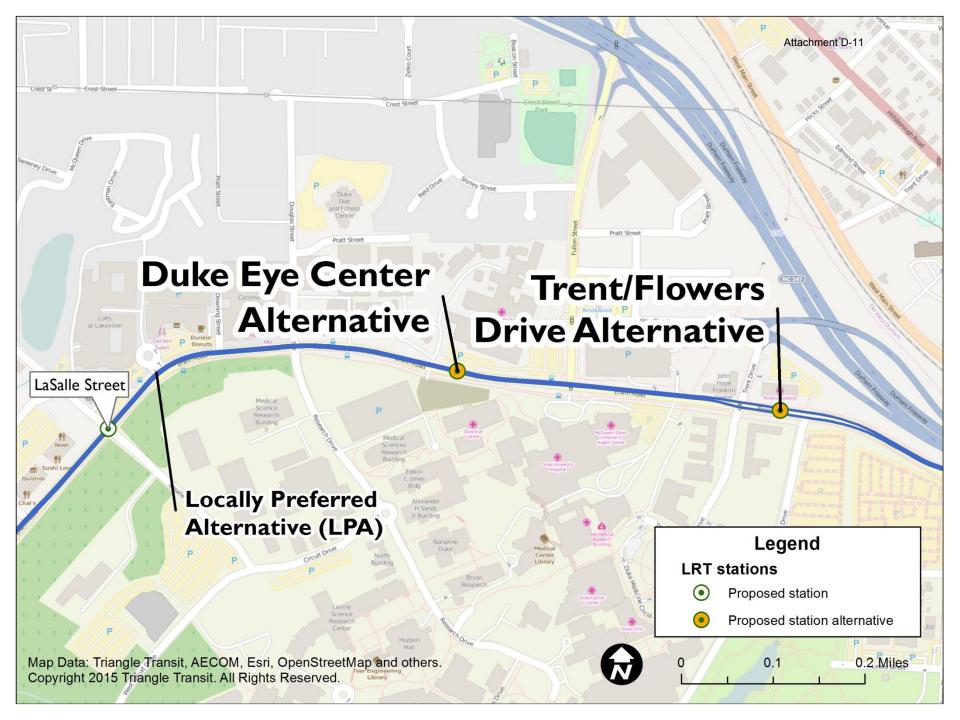
Build

No Build









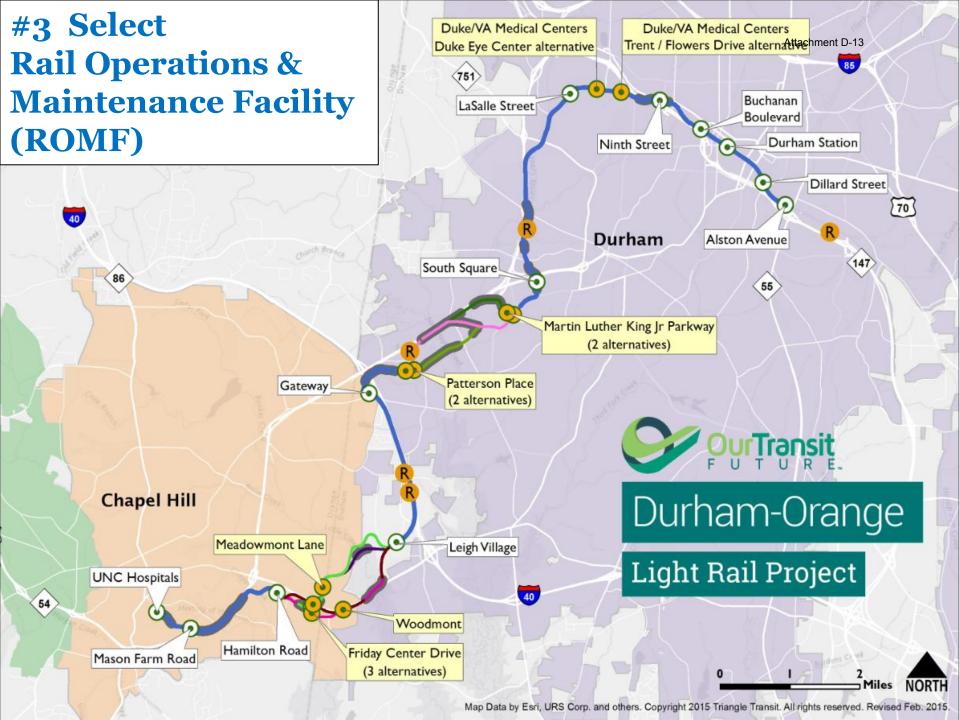
Duke/VA Medical Centers: Summary



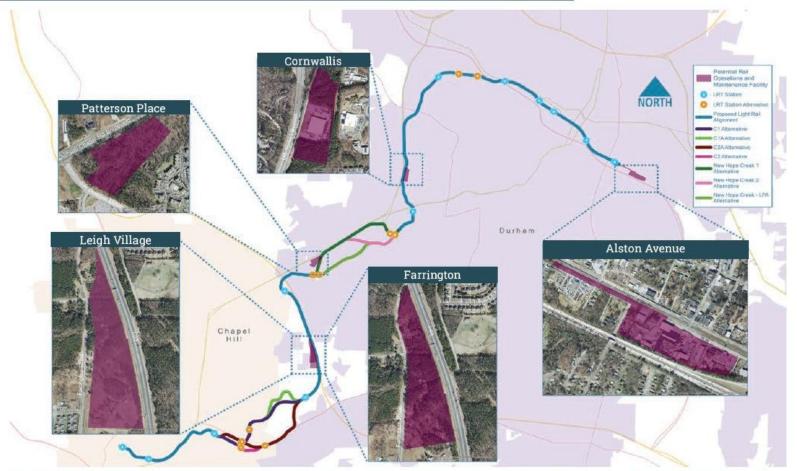
- Duke and VA have expressed preference for Trent/Flowers station location due to:
 - Less traffic and pedestrian congestion compared to Eye Care Center Drive area
 - Future Duke University plans for West Campus
- Eye Care Center and Trent/Flowers station locations largely perform exactly the same across virtually all metrics
- Differences in ridership and population served in 2040 are very minor







Select the Rail Operations & Maintenance Facility Location



The five Rail Operations & Maintenance Facility (ROMF) alternatives under consideration in this area will be evaluated based on the assessment criteria. In certain instances, criteria are uniform across the alternatives while other criteria will help to inform the study and to distinguish and select an alternative.

Our Transit

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ROMF: Capital Cost



Alternatives	Leigh	Farrington	Patterson	Cornwallis	Alston
	Village	Rd	Place	Rd	Ave
Capital Cost (millions of \$2015)	\$50-\$65	\$50-\$65	\$70-85	\$65-\$80	\$55-\$70*

*Additional costs to be determined pending completion of downtown Durham

alignment analysis



ROMF: Acquisitions & Displacements

Alternative	Leigh Village	Farrington Rd	Patterson Place	Cornwallis Rd	Alston Ave
Residential Acquisitions	1	6	0	0	2
Commercial Acquisitions	2	0	0	1	6
Vacant Land Acquisitions	2	5	2	0	11
Full Acquisitions	5	11	2	1	19*
Residential (land only)	2	0	0	0	0
Agriculture	0	0	1	0	0
Partial Acquisitions	2	0	1	0	0*

ROMF: Hazardous, Contaminated & Regulated Materials

Alternatives	Leigh Village	Farrington Rd	Patterson Place	Cornwallis Rd	Alston Ave
High Risk Sites	0	0	0	0	2
Medium Risk Sites	0	0	0	1	8



Attachment D-18

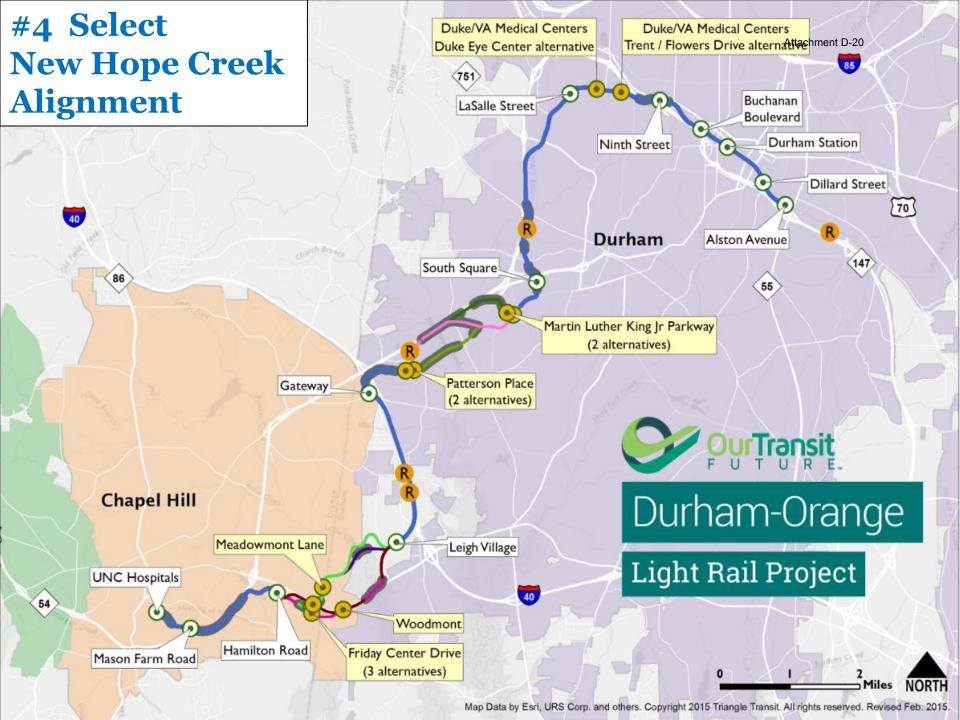
ROMF: Socioeconomic & Demographic Conditions

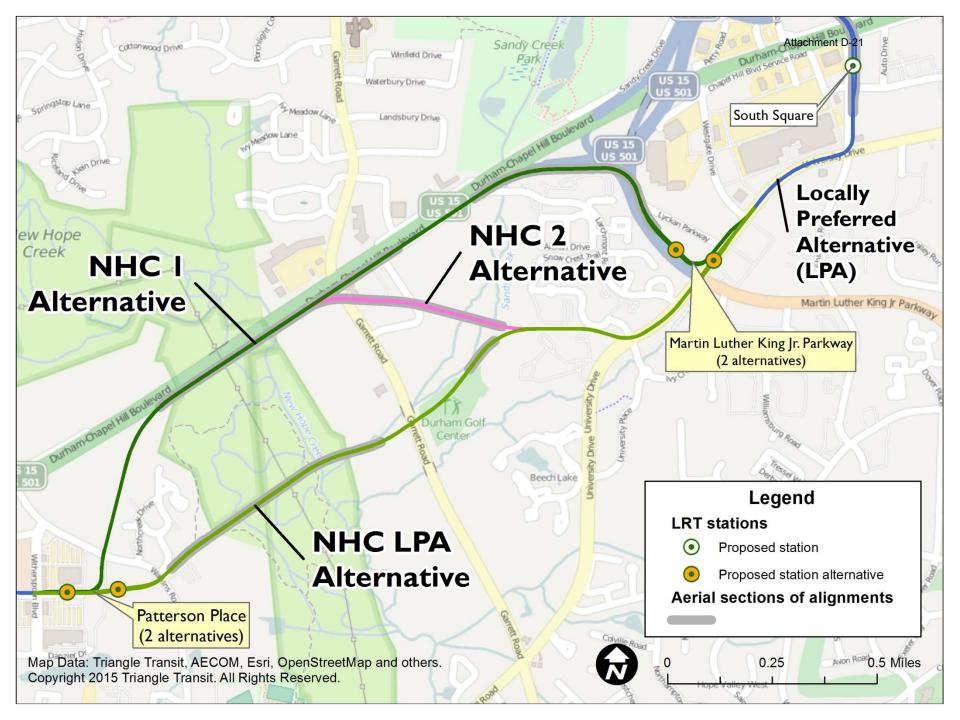
Alternatives	Leigh Village	Farrington Rd	Patterson Place	Cornwallis Rd	Alston Ave	
Minority Population (%)	29%	29%	55%	55%	94%	
Below Poverty (%)	15%	15%	24%	24%	48%	
Zero Car Households (0%)	5%	5%	12%	12%	50%	
Limited English Proficiency (%)	5%	5%	16%	16%	5%	

ROMF Sites: Summary



- Patterson Place ROMF site most expensive, only works with NHC-LPA. Choosing NHC1 or NHC2 alignment eliminates Patterson Place ROMF site
- Leigh Village and Farrington ROMF sites overlap; FTA to determine eligibility of historic resource on Leigh Village ROMF site
- Cornwallis Road ROMF site may have implementation challenges including access, topography, constructability and connection to the LRT alignment
- Alston Avenue ROMF site cost may rise and also result in schedule impacts due to cleanup, and the requirements of business relocations (including one business with a freight rail spur)





New Hope Creek: Travel Time

Alternative	NHC-LPA	NHC1	NHC2
Minutes: Seconds	8:44	8:47	9:15



- NHC1 is 3 seconds slower than NHC-LPA
 - NHC2 is 28 seconds slower than NHC1

New Hope Creek: Ridership

Alternative	NHC-LPA	NHC1	NHC2
Additional Daily Boardings	+220	+390	



- Lowest ridership alternative: C1A, NHC2, Duke Eye Care Center Station with 23,560 daily boardings
- NHC-LPA adds 220 daily boardings compared to NHC2
- NHC1 adds 390 daily boardings compared to NHC2

New Hope Creek: Capital Cost



Alternative	NHC-LPA	NHC1	NHC2
Additional Cost (\$ millions)		+\$16.3 m	+\$3.4 m

- Lowest capital cost alternative: C2, NHC-LPA, either Duke/VA station at \$1.522 billion
- NHC1 adds \$16.3m in capital cost
- NHC2 adds \$3.4m in capital cost

Attachment D-25

New Hope Creek: Operating Cost



Alternative	NHC-LPA	NHC1	NHC2
Additional Cost (\$)		+ \$180,100/year	+ \$75,600/year

- Lowest operating cost alternative: C1, NHC-LPA, either Duke/VA station at \$16,846,000/year
- NHC1 adds \$180,100/year in operating/maintenance cost
- NHC2 adds \$75,600/year in operating/maintenance cost

Attachment D-26

New Hope Creek: Natural Resources

Alternative	NHC-LPA	NHC1	NHC2
Bottomland (Acres)	4	2	3
Alluvial (Acres)	-	-	-
Mesic Mixed (Acres)	5	5	8
Maintained/Disturbed (Acres)	19	22	17
Total Biotic Resources Impacted (Acres)	28	29	28



New Hope Creek: Key Differences



NHC-LPA

- Lowest capital and operating costs
- Introduces a new transportation corridor

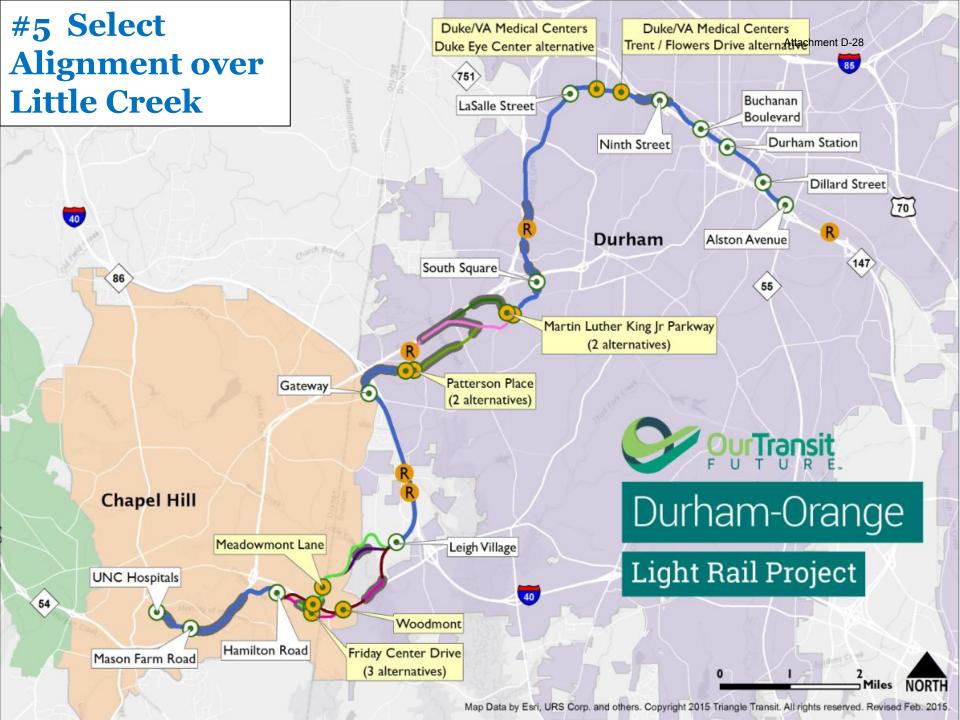
NHC Alt 1

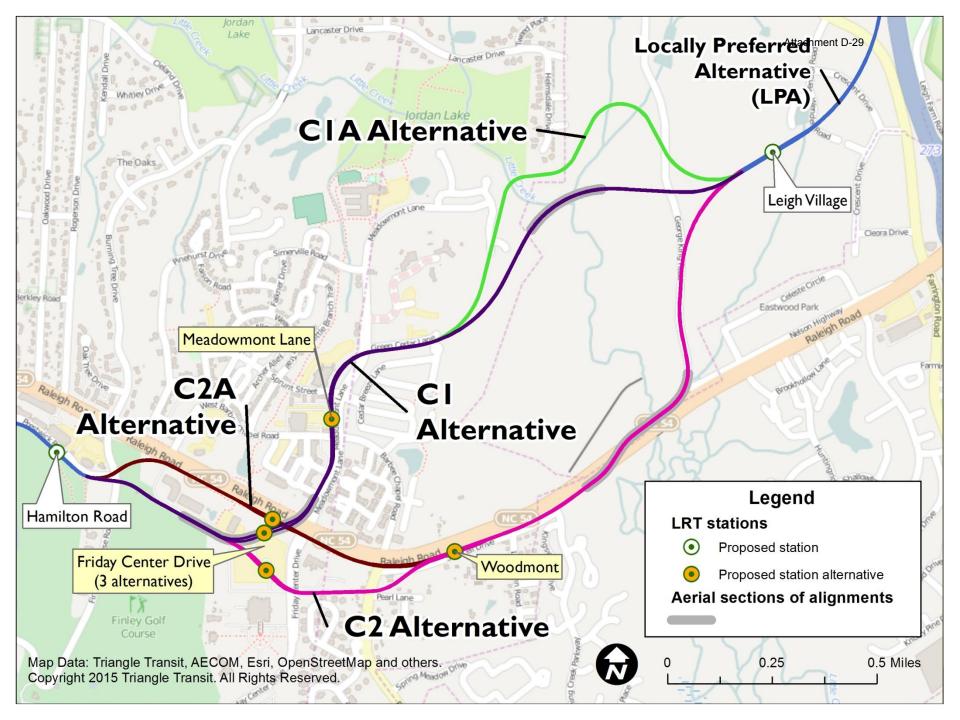
- Highest capital and operating costs
- Impacts the highest number of businesses

NHC-Alt 2

- Less bottomland impact than LPA
- Slightly less water resource impacts than LPA
- Capital cost closer to LPA than NHC 1



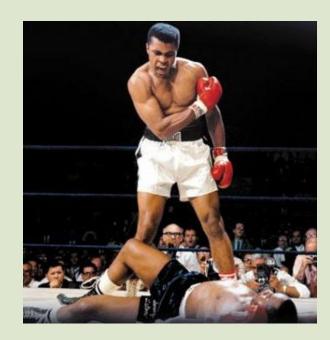




Little Creek: C1 Eliminated



- US Army Corps of Engineers provided a letter stating that C1A, C2, and C2A were viable alternatives but that C1 was not.
- USACOE would not authorize use of federal government property (game lands and a waterfowl impoundment) for C1 "given the availability of less damaging alternatives."



Little Creek: Travel Time



Alternative	C1A	C2	C2A
Minutes: Seconds	6:59	6:03	5:53

- C2 time 56 seconds shorter than C1A
- C2A time 10 seconds shorter than C2



Little Creek: Ridership

Alternative	C1A	C2	C2A
Additional Daily Boardings		+720	+730

- Lowest ridership alternative: C1A, NHC2, Duke Eye Care Center Station with 23,560 daily riders
- C2 and C2A both add over 700 daily riders compared to C1A





Little Creek: Capital Cost



Alternative	C1A	C2	C2A
Additional Cost (\$2015 millions)	+ \$36.0 m		+\$7.6 m

- Lowest capital cost alternative: C2, NHC-LPA, either Duke/VA station at \$1.522
 billion
- C2A adds \$7.6m in capital cost
- C1A adds \$36.0m in capital cost



Little Creek: Operating Cost



Alternative	C1A	C2	C2A
Additional Cost (\$)	+ \$82,100/year	+ \$56,900/year	+ \$56,900/year

- Lowest operating cost alternative: C1 (eliminated),
 NHC-LPA, either Duke/VA station at \$16,846,000/year
- C2 and C2A add \$56,900/year in operating/maintenance cost
- C1A adds \$82,100/year in operating/maintenance cost

So what do you think?





Our work continues...



- Ongoing Public Outreach seeking engagement with business and property owners, residents and tenants within the Corridor
- Development of DEIS Technical Reports and Analyses
- Ongoing collaboration with FTA, Resource and Regulatory Agencies, Local Governments and other Project Partners



We could use your help!



Steering Committee

- Provide Triangle Transit with input on the 5 Key Decisions to inform the proposed NEPA Preferred Alternative (April - May 2015)
- Request additional information or briefings
- Develop formal comments from your organization or jurisdiction for submission before or during the 45-day Public Review and Comment Period on the DEIS (Sept-Oct 2015)
- Next Steering Committee meeting: May 20th or 21st

Adjourn





For more information, please check OurTransitFuture.org