

CITY OF DURHAM
DEPARTMENT OF PARKS AND RECREATION

2019

TRAIL IMPLEMENTATION PROGRAM

PRESENTATION OUTLINE

- Durham's Trails
- Review of the draft Trail Implementation Program
 - Trail Network Review
 - Priority Trail Corridor Feasibility Analysis
 - Draft Document and Components
- Next Steps

DURHAM'S TRAILS



CITY OF DURHAM TRAIL IMPLEMENTATION PROGRAM

DURHAM'S TRAILS

- **First Trail:** Ellerbe Creek Trail Phase I (1985)
- **Most Recent Trail:** West Ellerbe Creek Trail Phase II (2018)
- 37 Years between 1985 – 2022 (today)
- 31.8 Total Miles of Trail
- 0.86 miles of trail per year



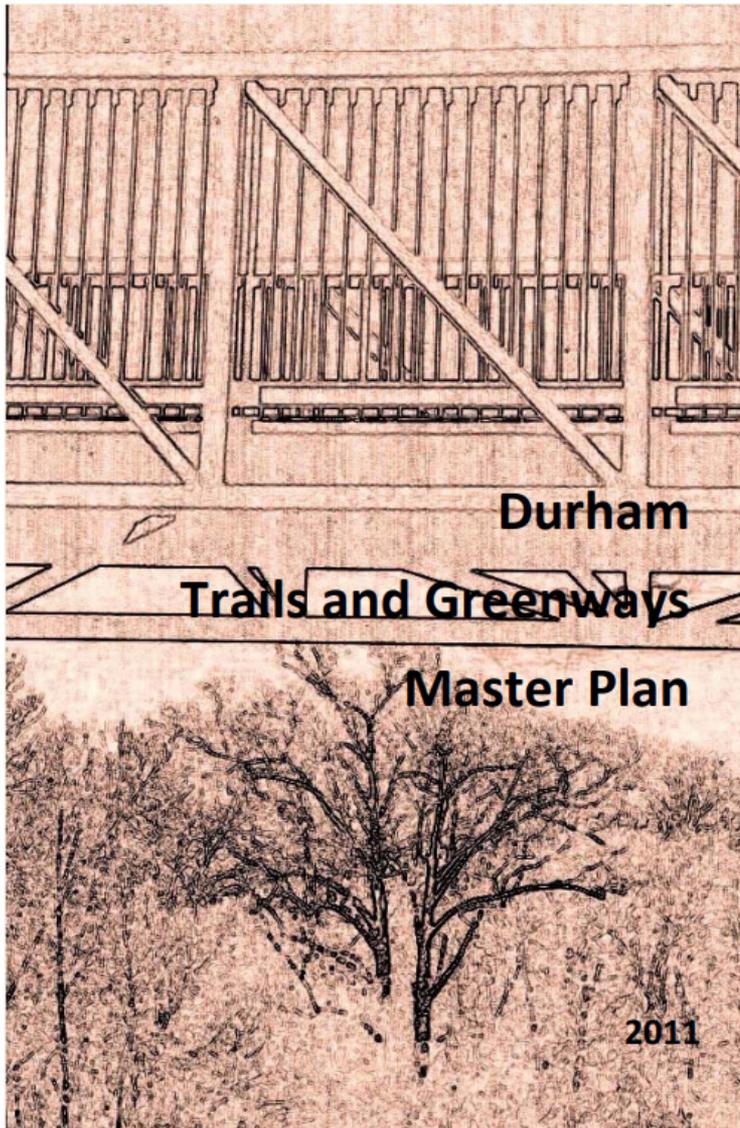
DURHAM'S TRAILS

(A Quick Peer City Review)

City	Trail Mileage	Population	Trails/100k Pop
Durham	31	283,506	11 miles/100k (rounded)
Raleigh	115	467,665	25 miles/100k (rounded)
Chapel Hill	18	61,960	30 miles/100k (rounded)
Cary	80	174,721	46 miles/100k (rounded)

Population data from U.S. Census Bureau April 1, 2020 Estimates

2011 MASTER PLAN PROGRESS



TRAIL NAME	LIMITS	LENGTH (MILES)
R. Kelly Bryant Pedestrian Bridge (2012)	Alston Avenue to Lakeland Street	0.3
American Tobacco Trail (2014)	NC 54 to Chatham County line	4.1
West Ellerbe Creek Trail Phase II (2018)	Westover Park to Broad Street	1.7



Time for Implementation:

*The Trail Implementation Program
Process & Document Development*

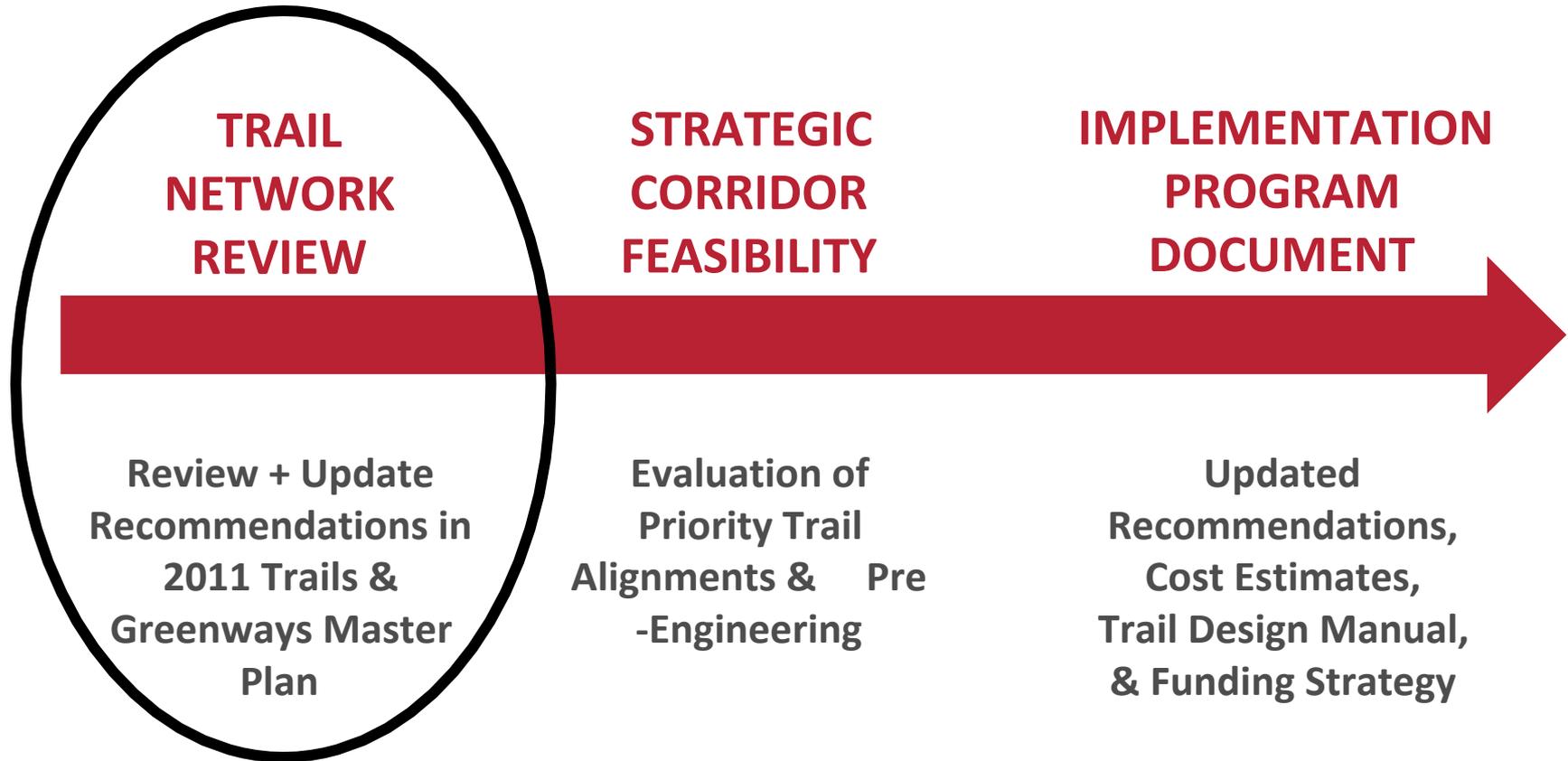


WHY THIS STUDY – Lessons Learned

- Right-of-Way Acquisition
- Design Constraints
- Cost Estimates vs. Construction Bids
- Funding Strategy
- Permitting Challenges

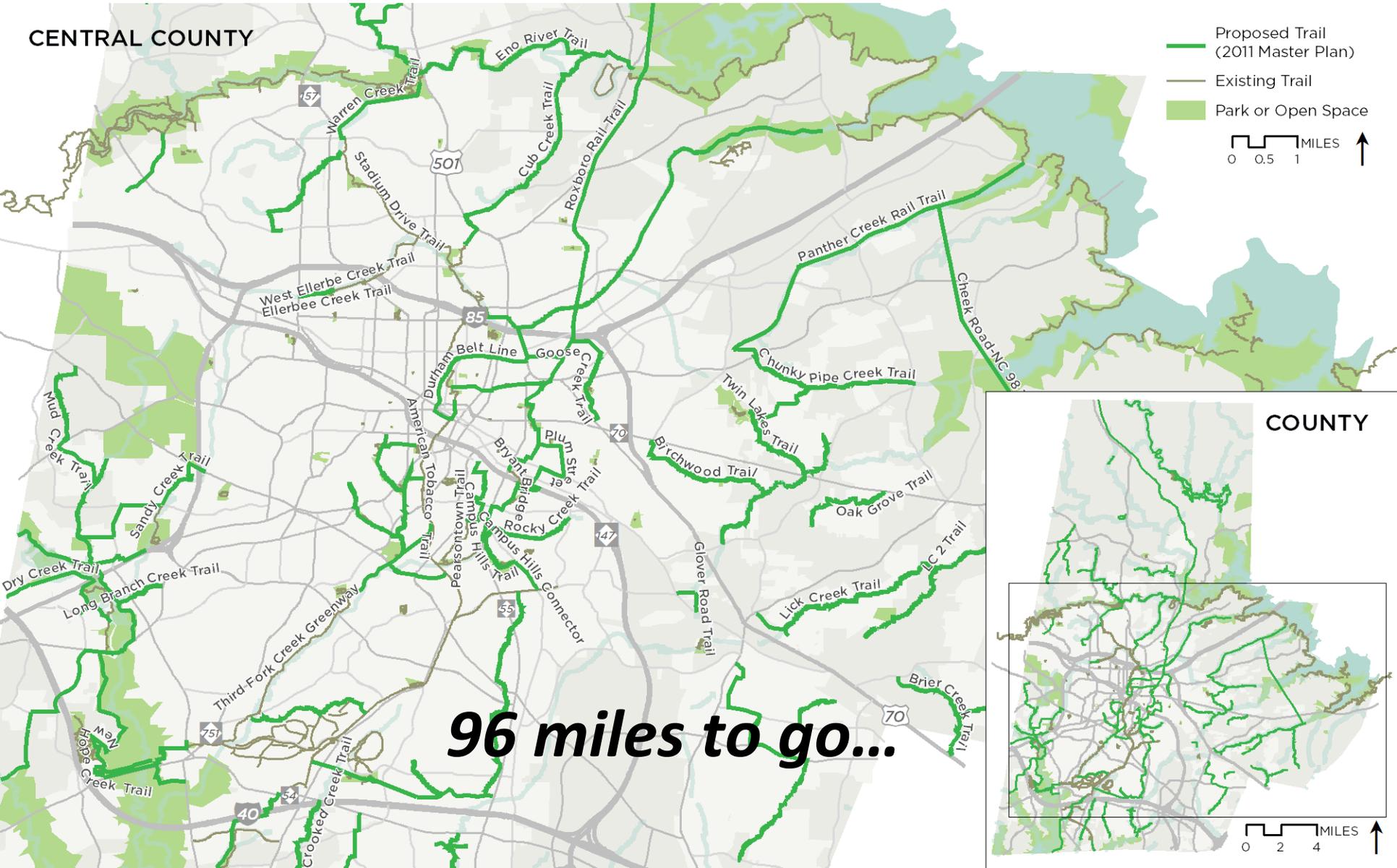


STUDY OVERVIEW/Scope of Work



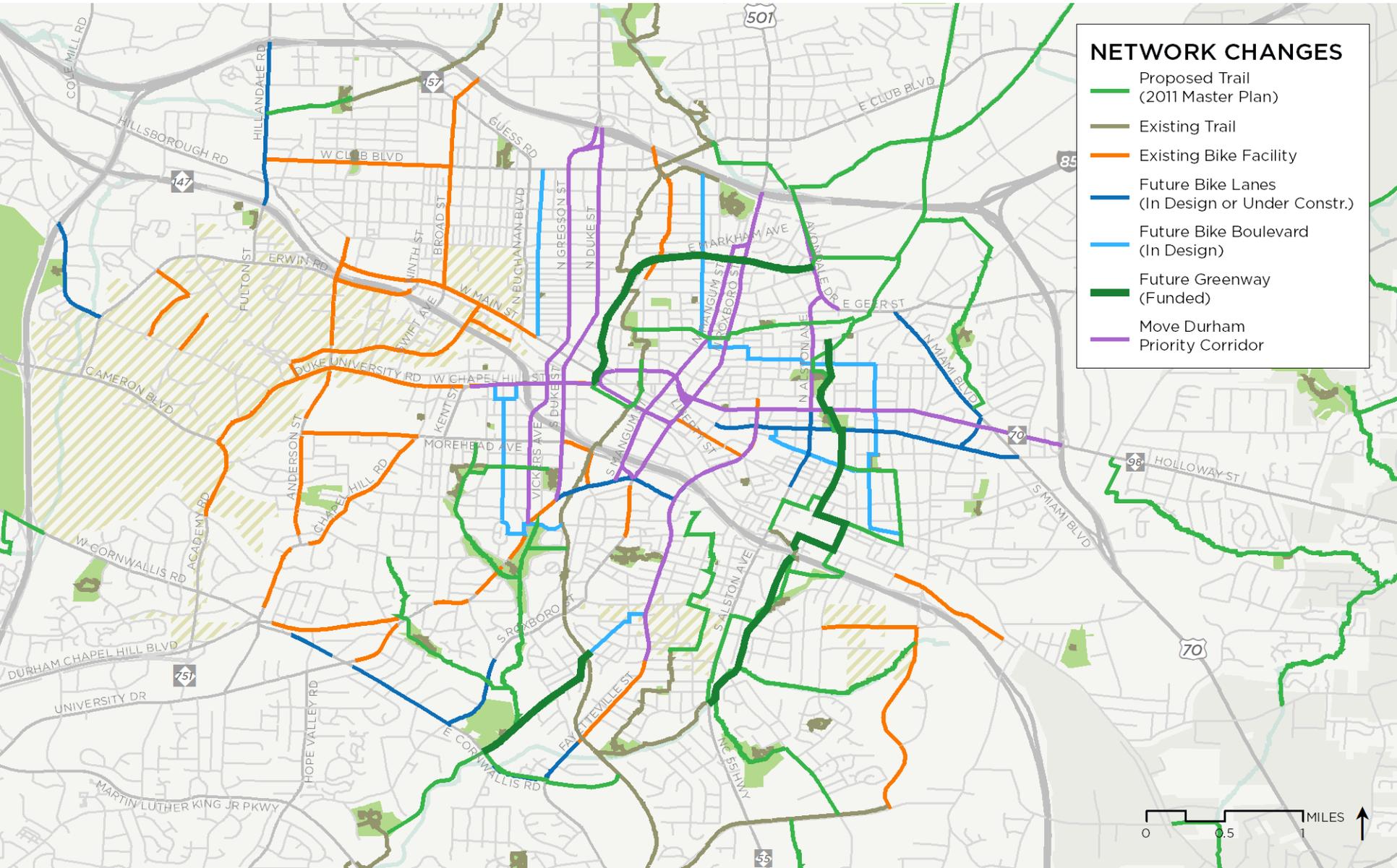
REVIEW OF 2011 TRAIL NETWORK

CENTRAL COUNTY

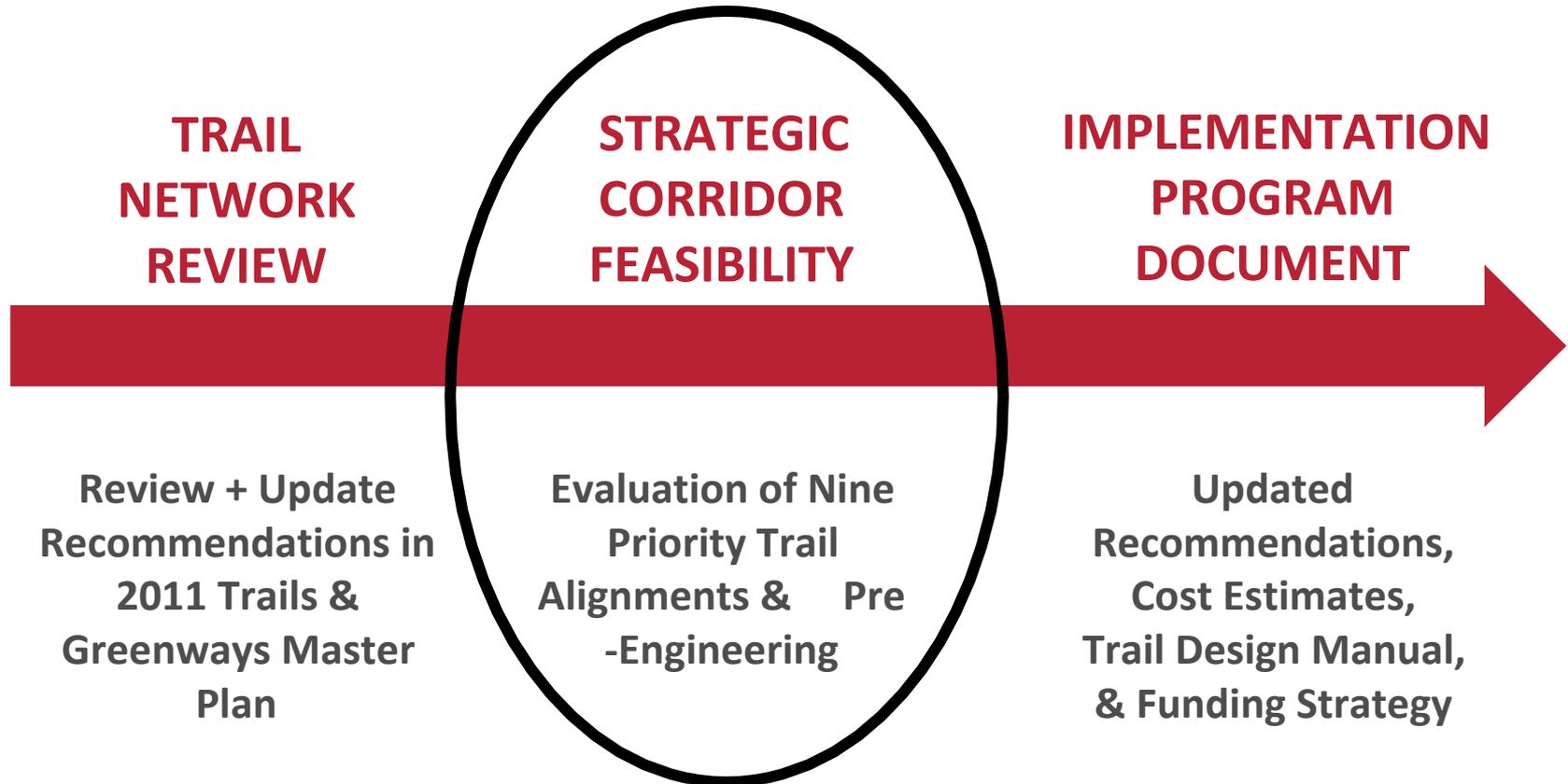


96 miles to go...

REDUNDANCY & OPPORTUNITIES/CONSTRAINTS REVIEW



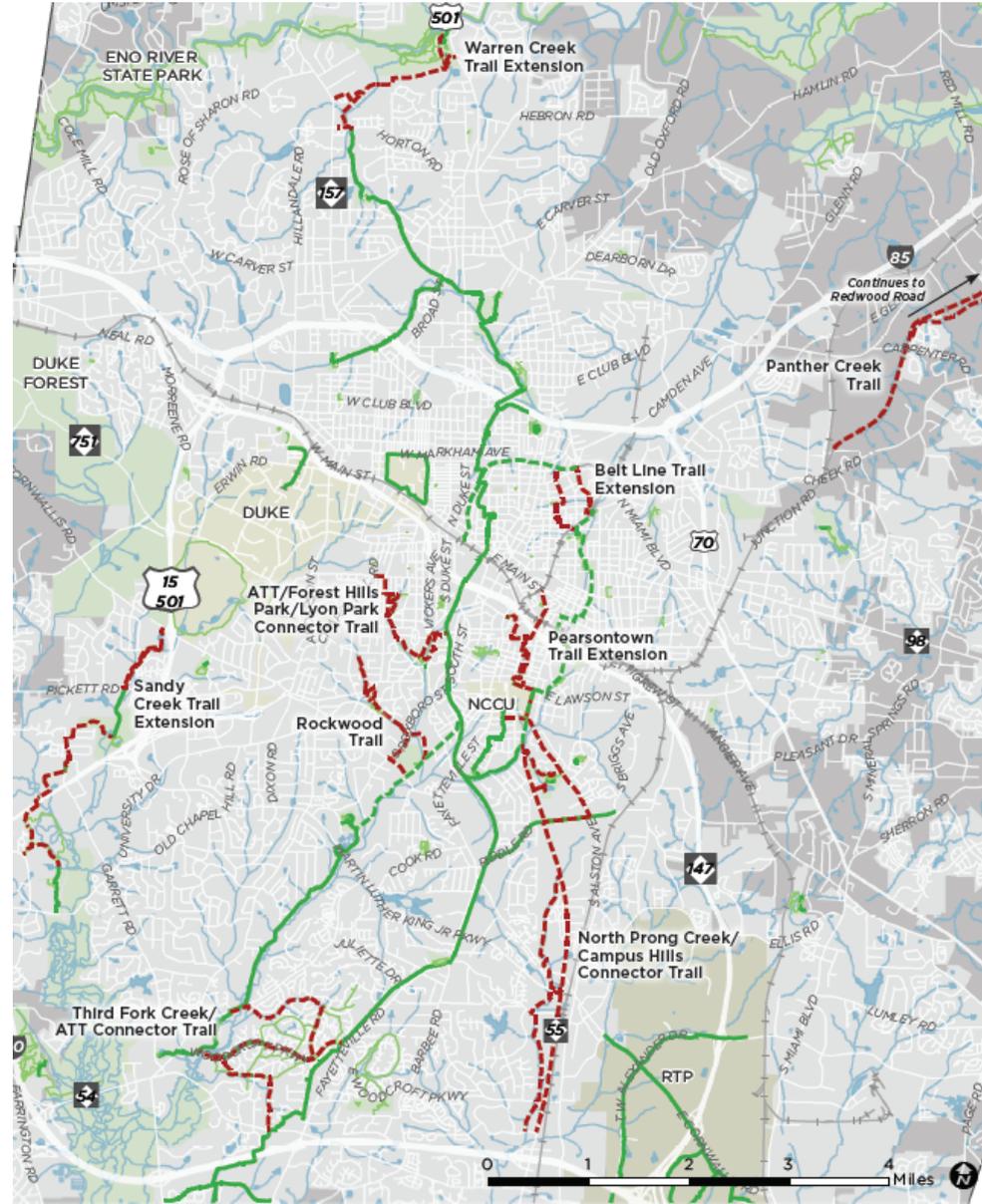
STUDY OVERVIEW/Scope of Work



NINE PRIORITY TRAILS*

- Downtown Rail-Trail Connector to R. Kelly Bryant Trail
- Pearsontown Trail Extension
- ATT/Forest Hills Park to Lyon Park Connector Trail
- Rockwood Trail
- North Prong Creek Trail/ Campus Hills Connector Trail
- Third Fork Creek Tributary Trail
- Warren Creek Trail Extension
- Sandy Creek Trail Extension
- Panther Creek Rail-Trail

**Selected by DOST*



FEASIBILITY & PRIORITIES

CONSTRUCTABILITY FACTORS

HYDROLOGY

WETLANDS

STREAM
CROSSINGS

STRUCTURES

TOPOGRAPHY

LAND
OWNERSHIP

COMMUNITY CONTEXT FACTORS

KEY
DESTINATIONS

TRIP
GENERATORS

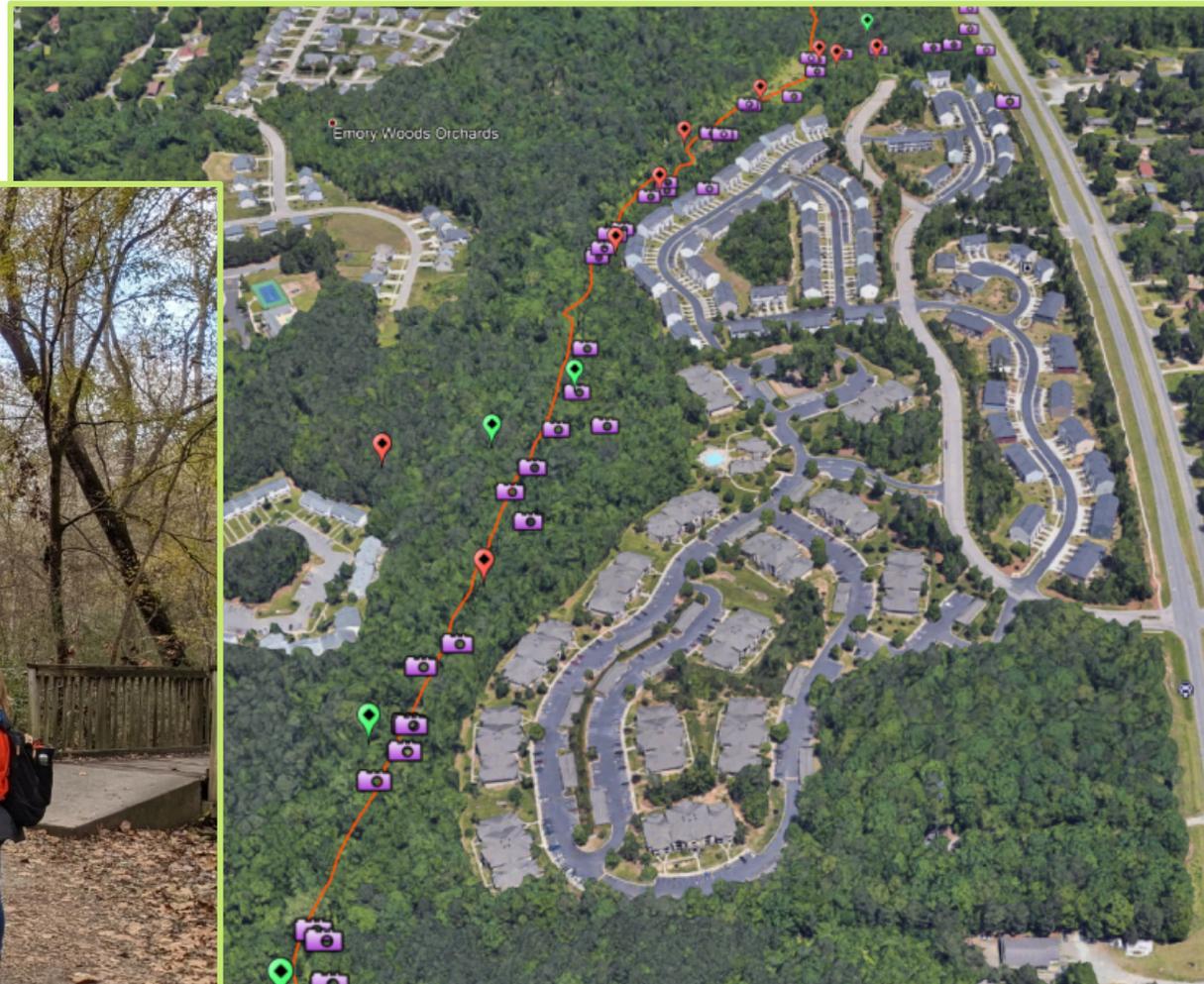
NETWORK
CONNECTIVITY

MULTIMODAL
ACCESS

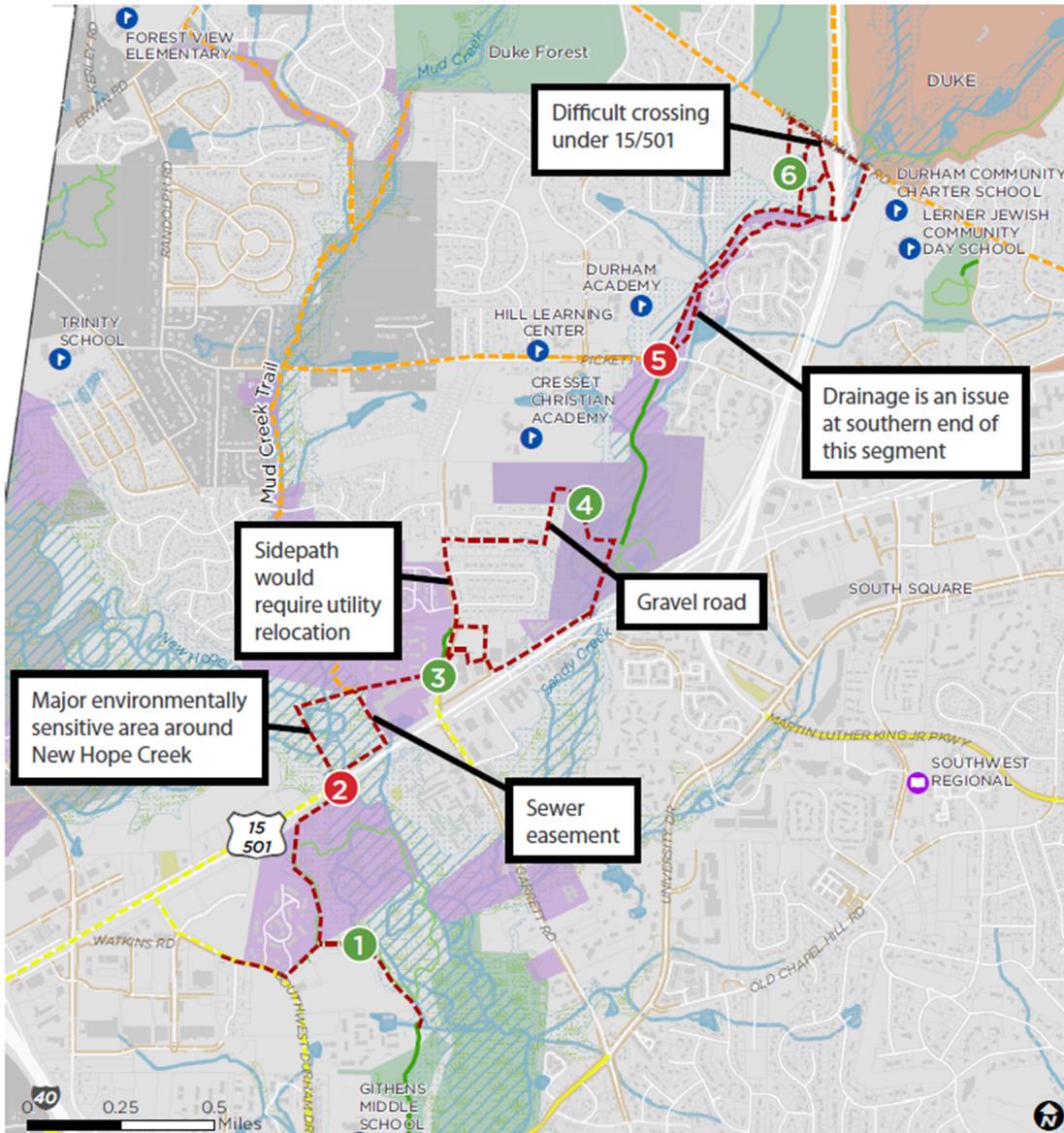
SAFETY

EQUITY

SITE ANALYSIS



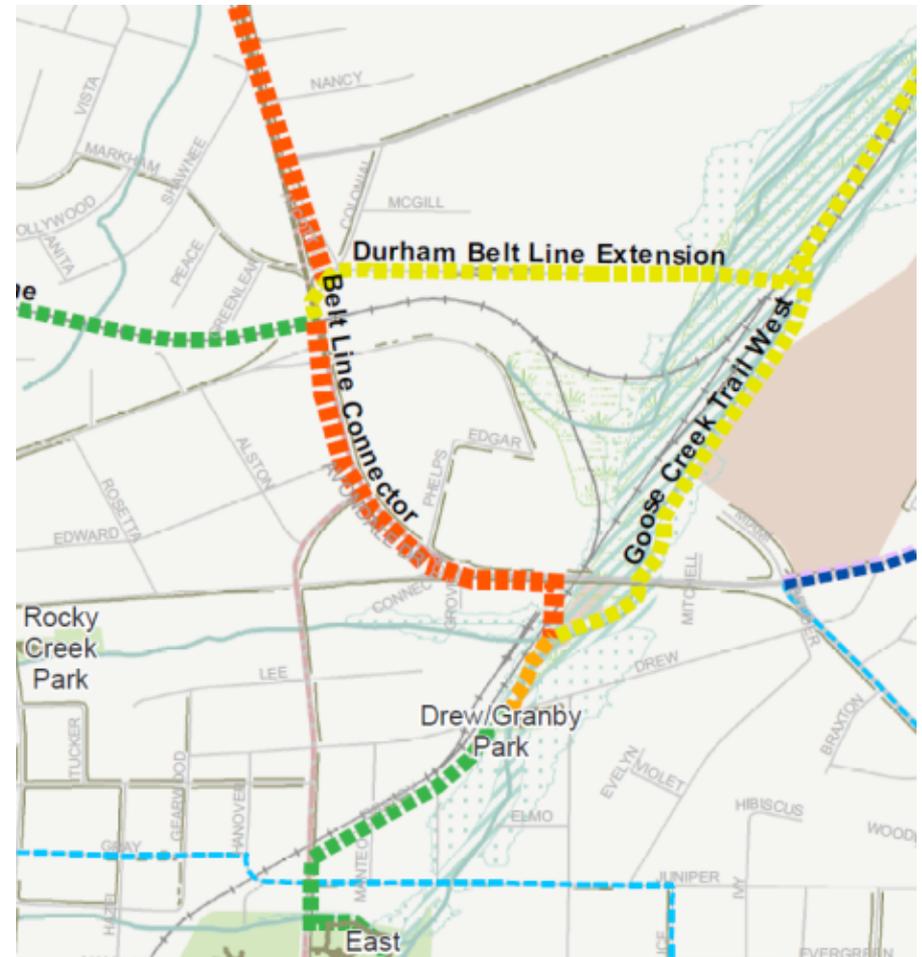
ALIGNMENT EVALUATIONS



-  Alignment Alternatives included in evaluation
-  Connectivity to other facilities

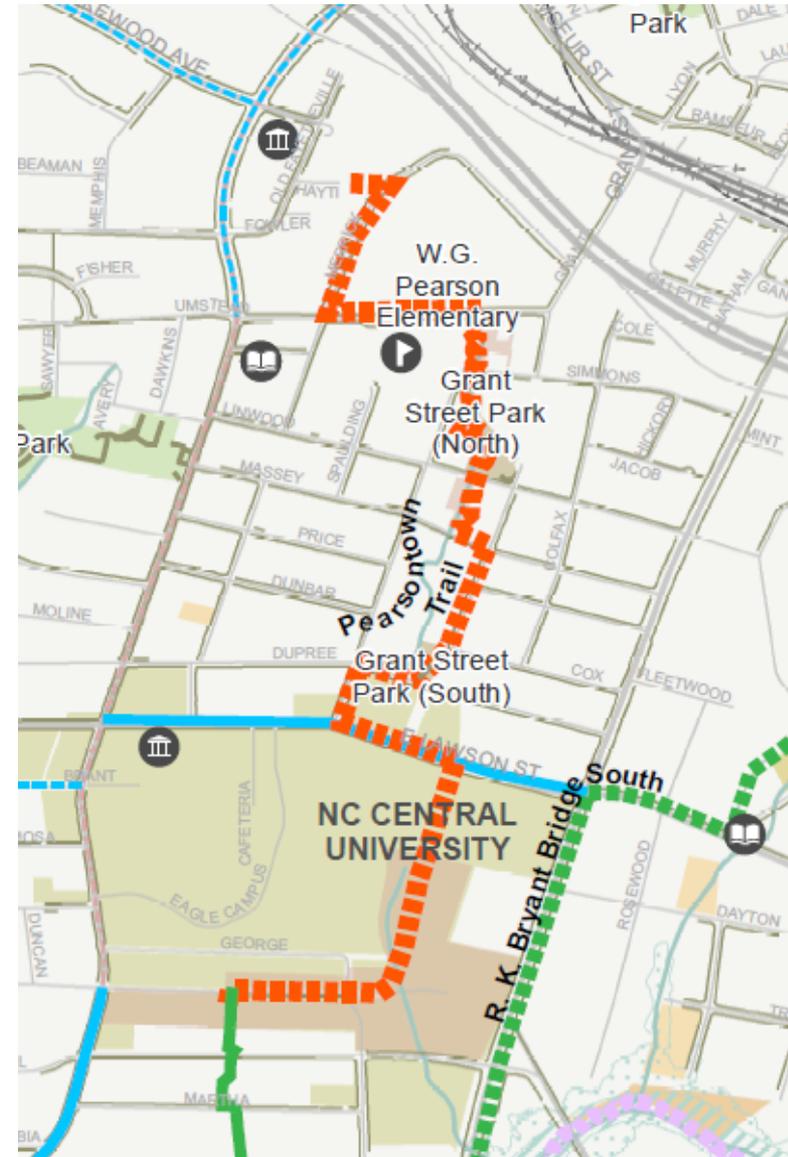
Downtown Rail-Trail to R. Kelly Bryant Trail Connector

- Access to many downtown destinations
- Connects the Rail-Trail to the R. Kelly Bryant Trail
- Avondale Drive is a “Move Durham” priority corridor
- Potential alternative alignment along Rosetta and Gearwood
- **COST: \$4,067,000**



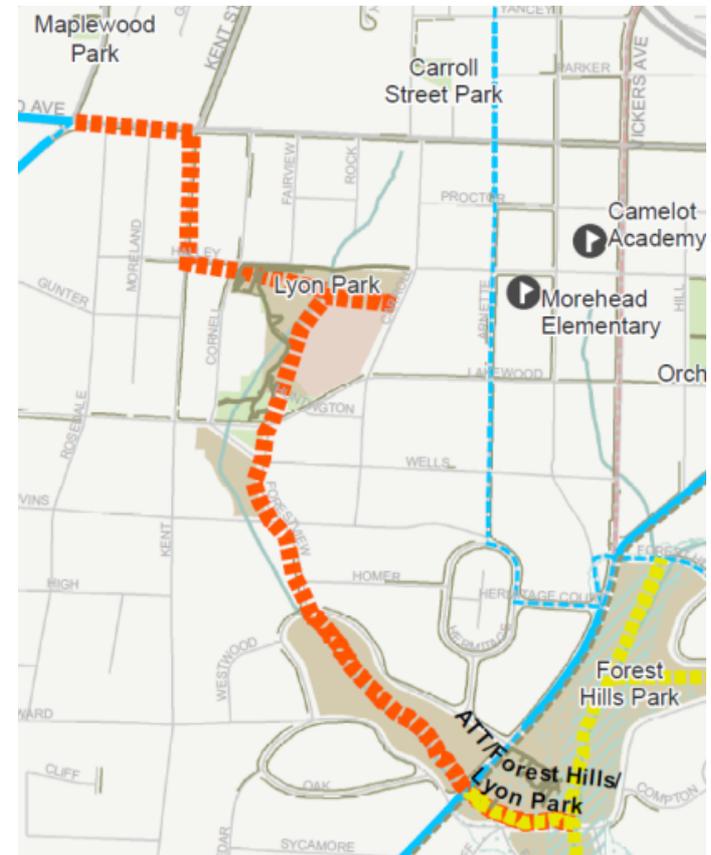
Pearson Trail Extension

- Access to NCCU, Hayti Heritage Center, Durham County Library
- Connections to existing Pearsons Trail, Rocky Creek Greenway, bike lanes on Lawson Street, and R. Kelly Bryant Trail
- Alternative transportation corridor to Alston Avenue
- Located in a “transportation disadvantaged” area
- **COST: \$4,519,000**



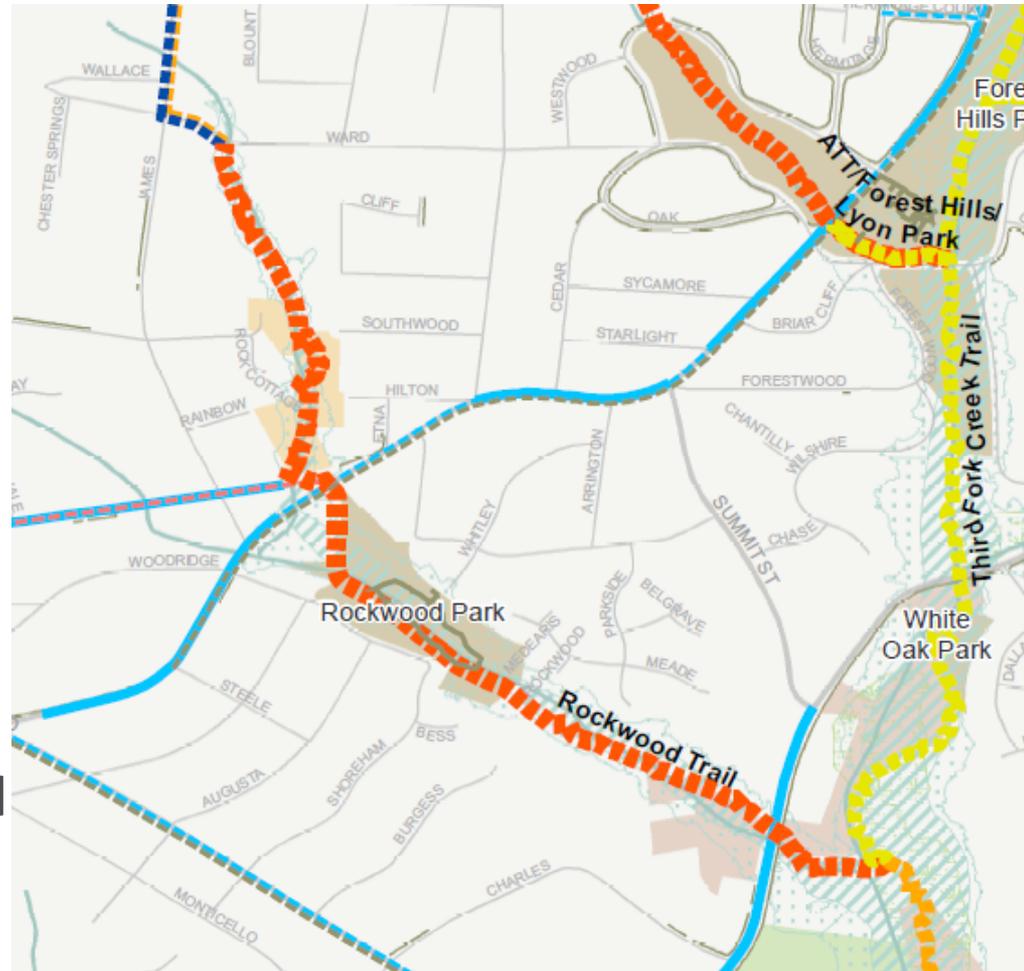
ATT/Forest Hills Park to Lyon Park Connector

- Parallels the Rockwood Trail
- Connects the Lyon Park neighborhood to the American Tobacco Trail and Morehead Avenue
- Access to Morehead Montessori Elementary School and Lyon Park
- Connection of bicycle lanes on University Drive
- **COST: \$4,300,000**



Rockwood Trail

- Parallels the proposed ATT/Forest Hills to Lyon Park Connector Trail
- Access to Rockwood Park and Weaver Street Recreation Center
- Provides connection across University Drive/US 15-501 Business
- Connects to bike lanes on Roxboro Street and Chapel Hill Road
- Runs along the floodway
- **COST: \$10,023,000**



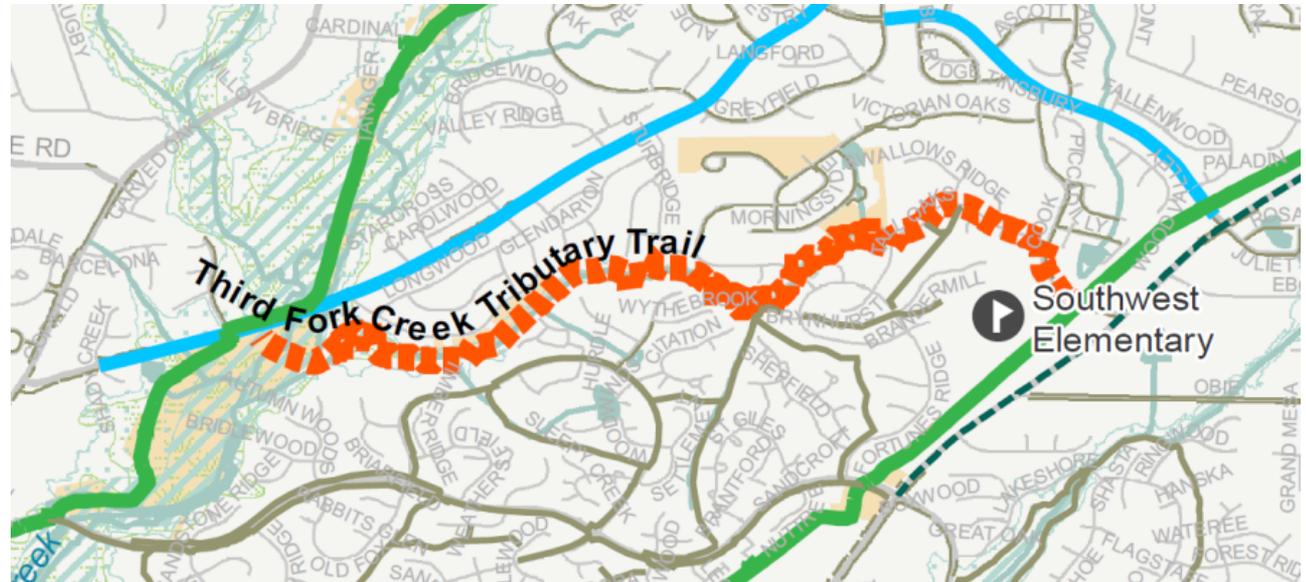
North Prong Creek Trail/Campus Hills Connector

- Connects to the existing Pearsontown-Rocky Creek Greenway and the R. Kelly Bryant Trail
- Alternative transportation route (parallels Highway 55)
- Access to NCCU, Shephard Middle School, employment centers, and neighborhood walking trails
- Developer-built project partnership
- Proposed alignment follows the North Prong Creek
- **COST: \$13,880,000**



Third Fork Creek Tributary Trail

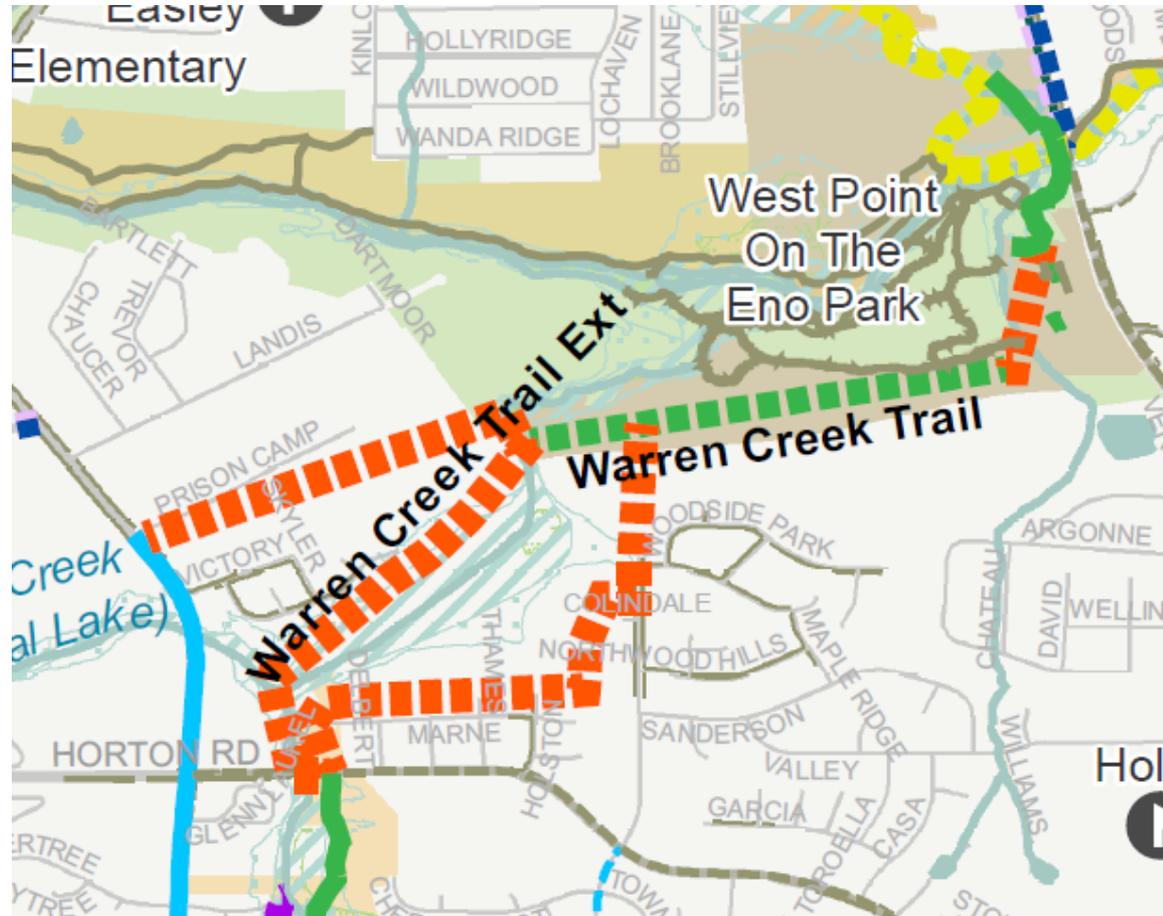
- Connection between existing ATT and Third Fork Creek Trails
- Within walking distance of Southwest Elementary School and neighborhood trails



- Potential alignment runs along narrow wetlands and floodways and is located in Jordan Lake Protected Area
- Possibility of exploring unpaved trail recommendation (maintenance, ADA, etc.)
- **COST: \$2,804,000**

Warren Creek Trail Extension

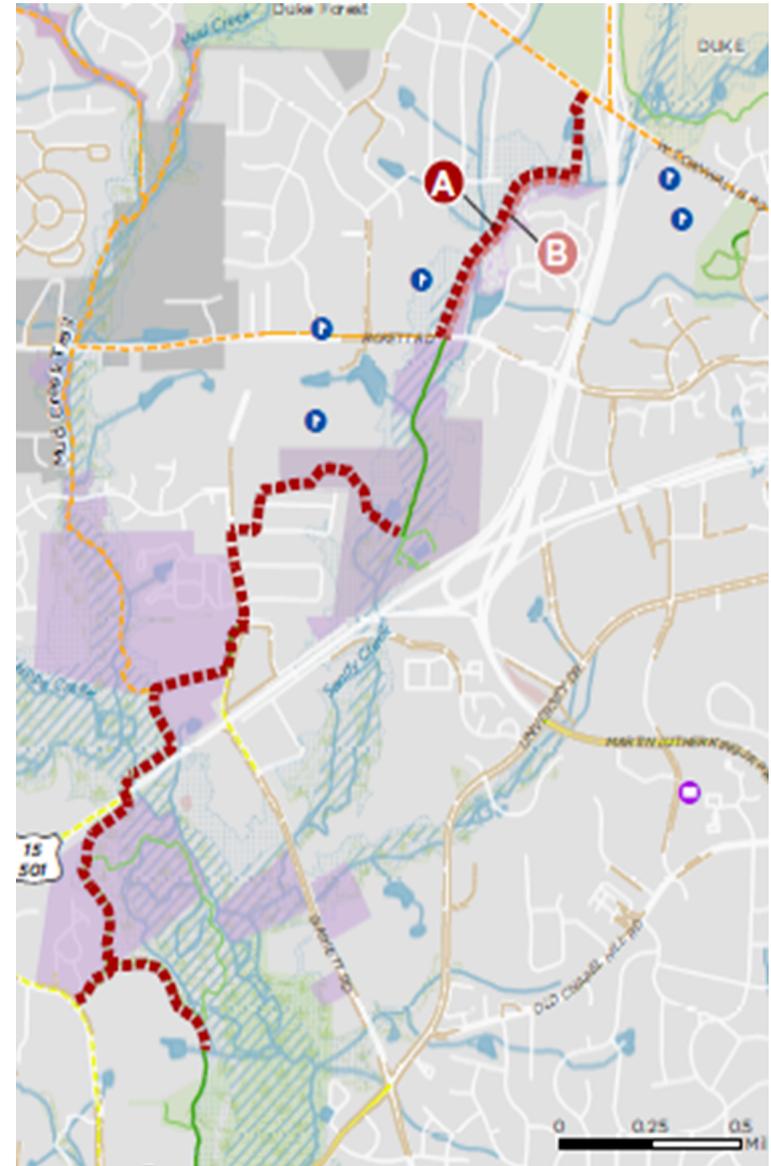
- Connects existing Warren Creek Trail with pedestrian bridge over the Eno River
- Recreational asset & transportation corridor
- Potential for a portion of trail to be constructed by WestPoint development
- Potential alternative alignments along a planned sewer line project



- Trail has previously been submitted for CIP funding
- **COST: \$9,145,000**

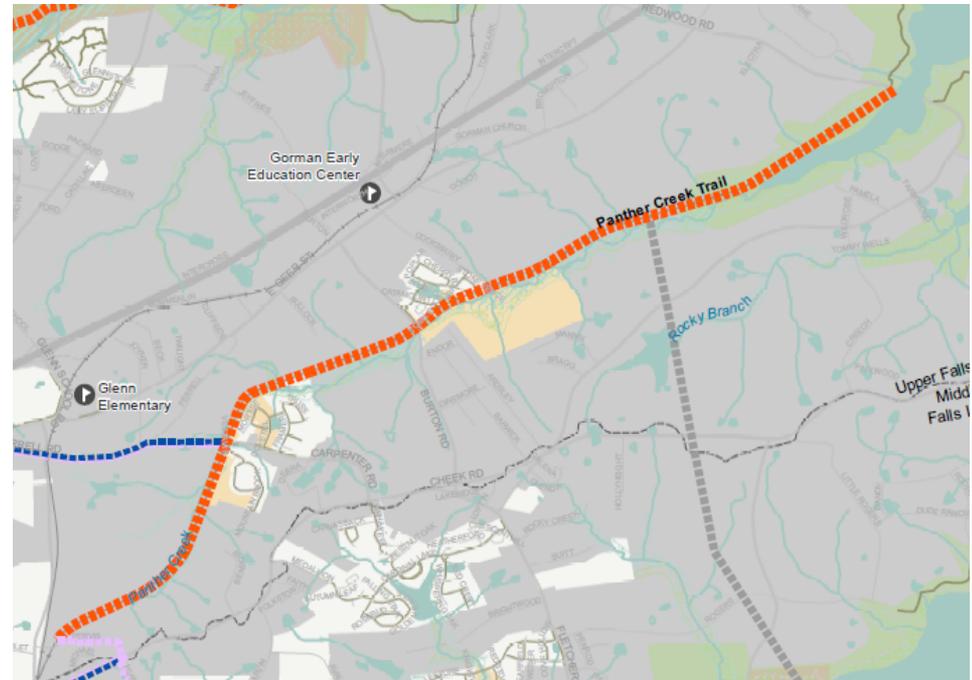
Sandy Creek Trail Extension

- Most of the trail is in the Sandy Creek floodway or floodplain
- Connects to Patterson Place, several neighborhoods, Old Chapel Hill Road Park, and Sherwood Githens Middle School
- Links several neighborhoods to the existing Sandy Creek Park and Sandy Creek Trail
- Links to Cameron Blvd/Duke University area
- Traverses many private properties, some have conveyed easements
- **COST: \$16,114,000**



Panther Creek Trail

- Connection from Cheek Road to Falls Lake and Mountains-to-Sea Trail
- Within the Jordan Lake Protected Area and Jordan Lake Critical Area
- Located along an abandoned rail line with right-of-way reverted back to adjacent property owners
- Largely recreational use trail, partnering with Durham County is key for the success of this project.
- **COST: \$10,599,000**



STUDY OVERVIEW/Scope of Work

TRAIL NETWORK REVIEW

Review + Update
Recommendations in
2011 Trails &
Greenways Master
Plan

STRATEGIC CORRIDOR FEASIBILITY

Evaluation of
Priority Trail
Alignments & Pre
-Engineering

IMPLEMENTATION PROGRAM DOCUMENT

Updated Priority Trail
Recommendations,
Cost Estimates,
Trail Design Manual,
& Funding Strategy



PRIORITY TRAILS: Implementation & Funding Strategy

- Alignment Options
- Probable Costs
- Permitting Needs
- Funding Strategy
 - City CIP
 - NCDOT SPOT Process
 - Grants
 - Agreements through the Development Review process



Funding Strategy & DOST Priorities

FEDERAL TRANSPORTATION FUNDING(competitive NCDOT SPOT process)

- Downtown Rail-Trail Connection to RKBB Trail (\$4,067,000)
- Pearisontown Trail Extension (\$4,519,000)
- ATT/Forest Hills Park/Lyon Park Connector Trail (\$4,300,000)

CITY CAPITAL IMPROVEMENT PROGRAM (CIP) FUNDING

- Rockwood Trail (\$10,023,000)
- North Prong Creek/Campus Hills Connector Trail (\$13,880,000)

CITY CIP/PRIVATE PARTNERSHIPS(Grants/Development Agreements)

- Third Fork Creek/ATT Connector Trail (\$2,804,000)
- Warren Creek Trail Extension (\$9,145,000)
- Sandy Creek Trail Extension (\$16,114,000)
- ❖ Panther Creek Trail (\$10,599,000)

- ❖ The Panther Creek Trail does not perform strongly across the City's priority metrics. It is recommended that this trail be pursued in partnership with Durham County.

Next Steps:

- Collaborate interdepartmentally to create an appropriate Equitable Public Engagement Strategy and timeline in conformance with the Equitable Engagement Blueprint.
- Conduct equitable public engagement with a focus on the nine priority trail corridors.
- Incorporate public comment and influence into decision making for priority trail corridors.
- Prioritize projects for funding based on input received.

Thank You

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