



RTC Relocation Study GoTriangle Board

April 28, 2021



Requested Board Action

Adopt a relocation strategy:

- ▶ Preferred relocation site
- ▶ Conceptual program
- ▶ Implementation approach



Regional Transit Center Relocation Study



Agenda

- ▶ Study Purpose
- ▶ Site Search & Evaluation
- ▶ Preferred Site Location
- ▶ Conceptual Program
- ▶ Implementation Approach
- ▶ Next Steps



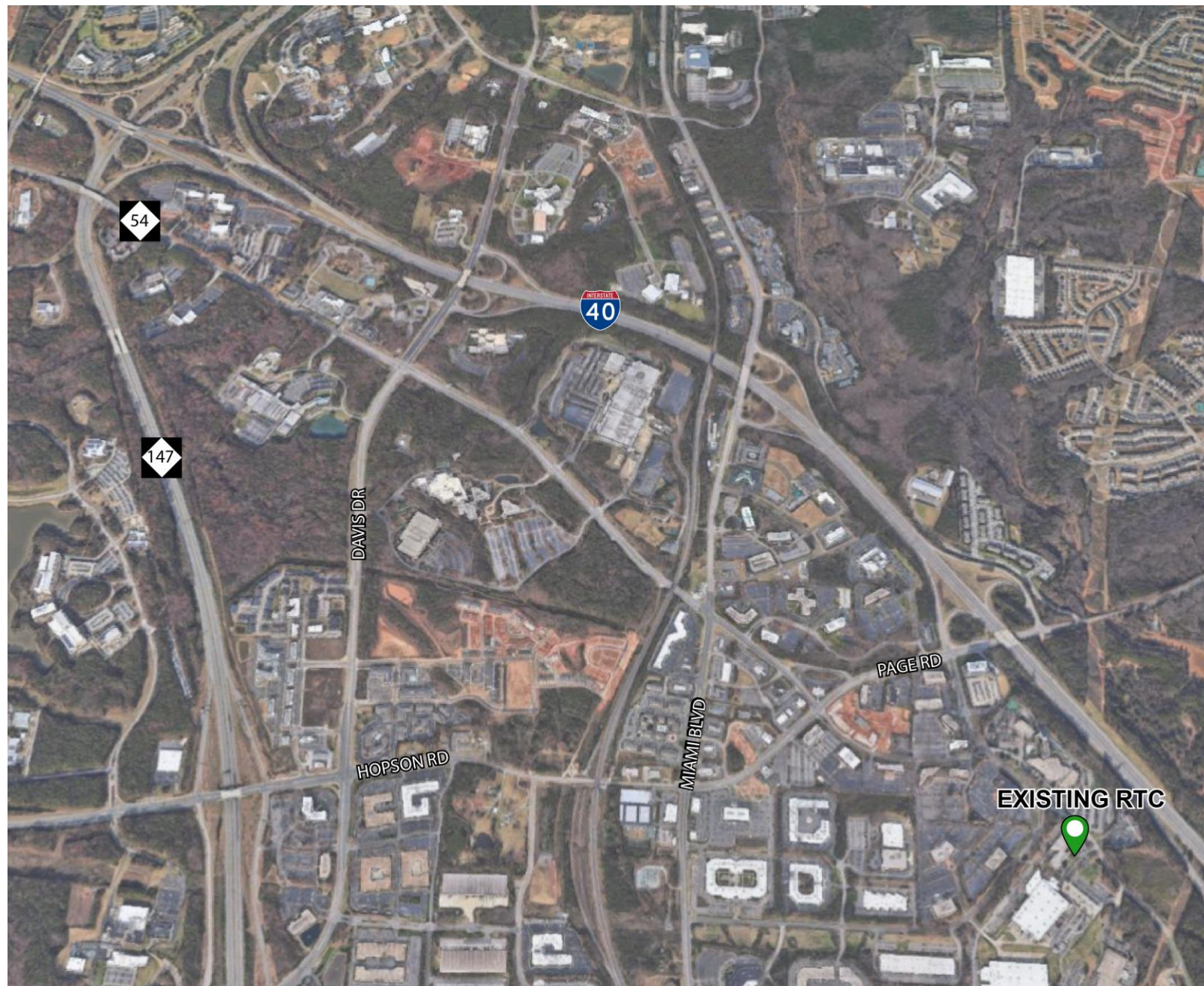


Safety

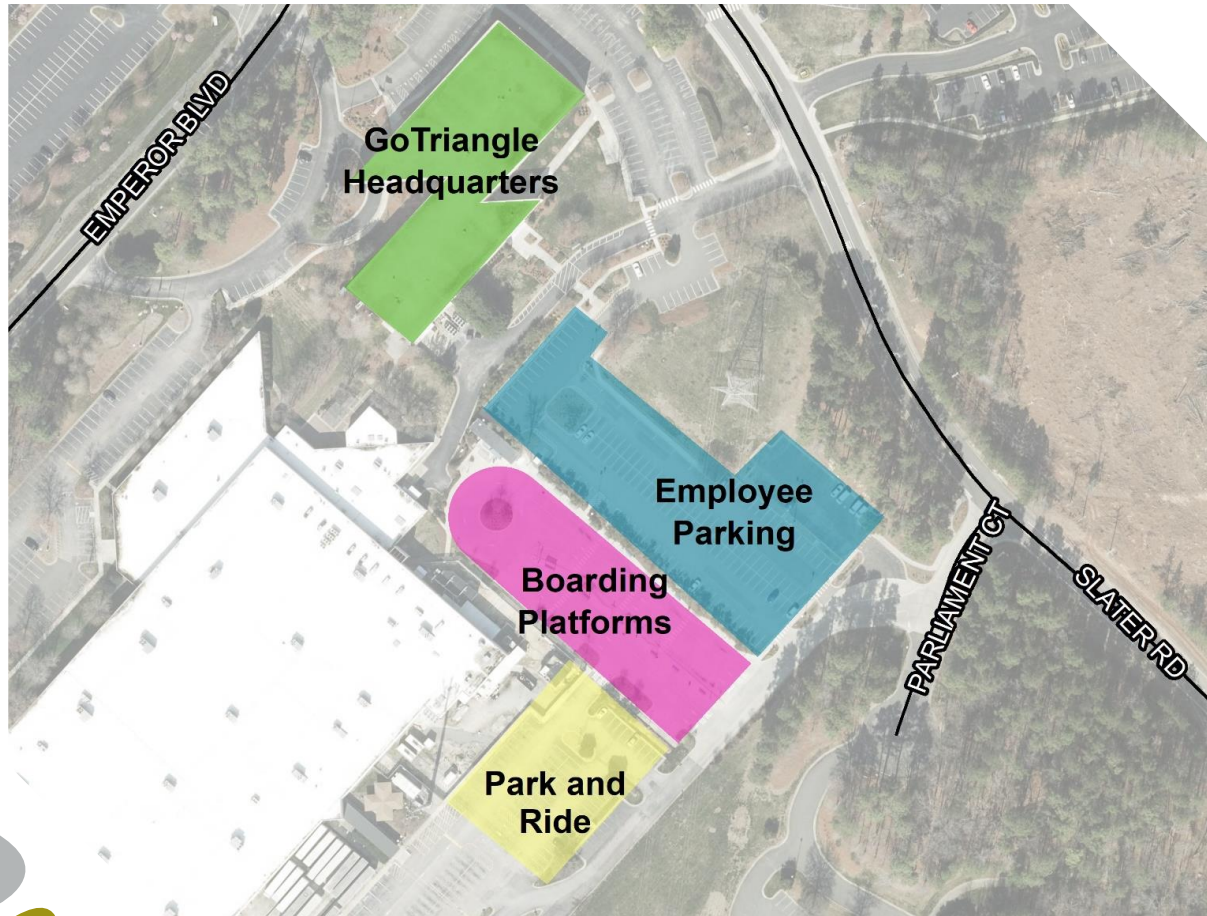


Purpose: Evaluate opportunities to relocate and improve the Regional Transit Center to enhance functionality, connectivity, and reliability.

Existing Regional Transit Center



Existing Conditions



- ▶ Serves 10 routes
- ▶ 1,000 daily boardings
- ▶ 100 daily park & ride users
- ▶ Own headquarters building
- ▶ Lease park & ride and RTC



Safety and Accessibility

- ▶ Platform space limited and constrained
- ▶ Limited separation between users
- ▶ Buses share driveway with other vehicles



Passenger Amenities

What would improve the experience outside on the bus platforms? (Choose all that apply)



61% More shelters



48% WiFi access



48% Wayfinding signage

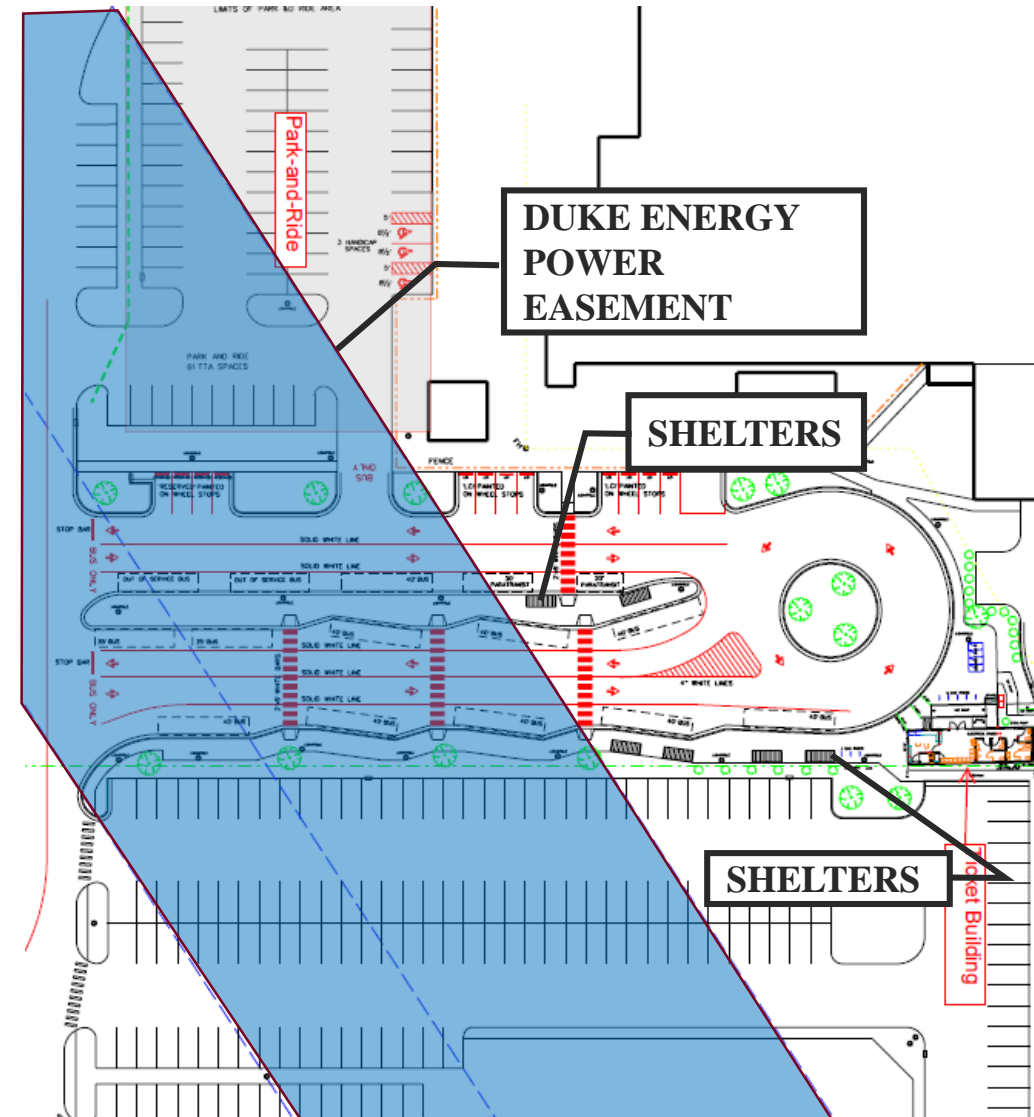


44% More benches



Passenger Amenities

- ▶ Limited shelter coverage
- ▶ Duke Energy Easement precludes ability to add more shelters on site



Access

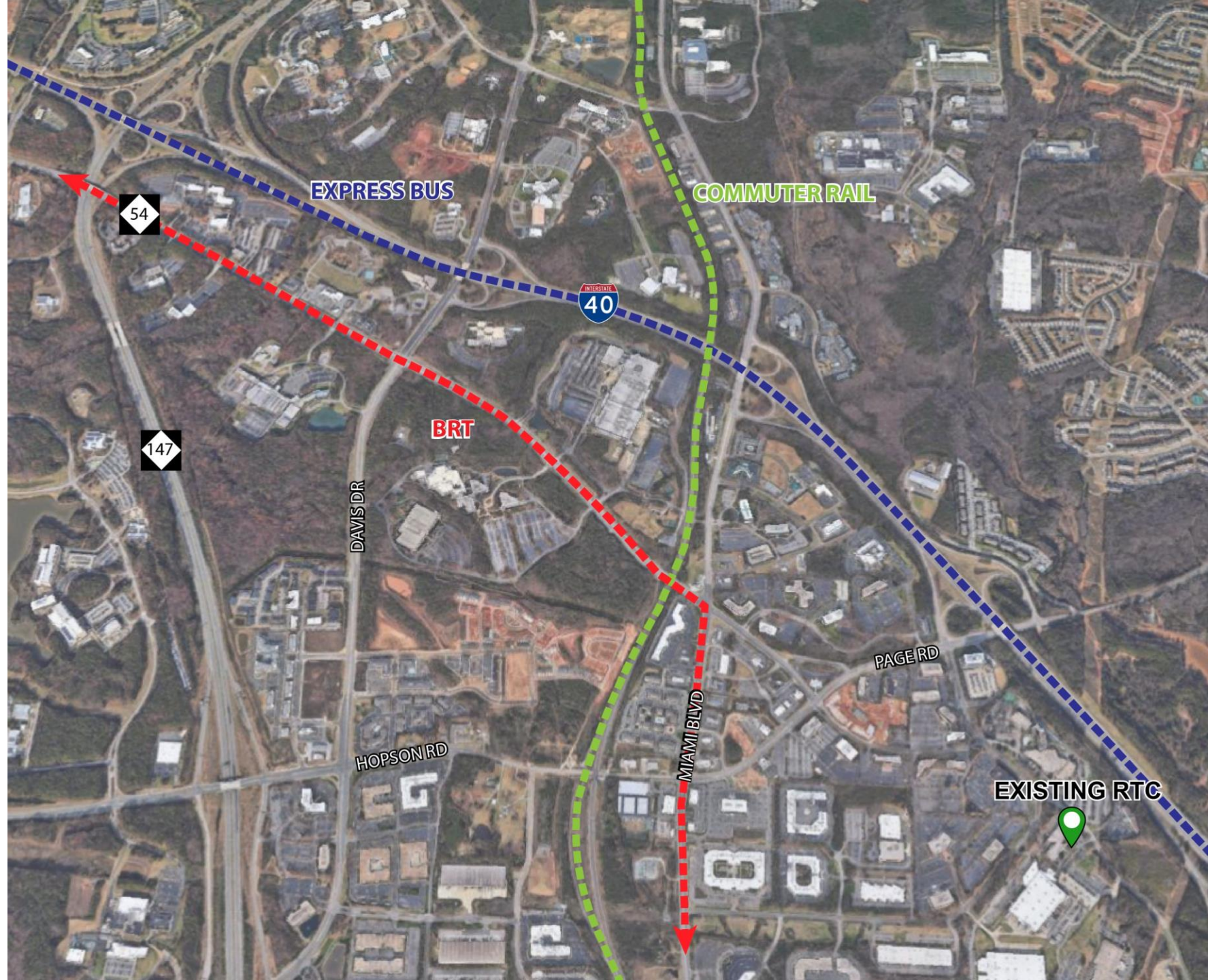
What would improve the experience at the RTC?



60% Shops and Services Nearby



Connectivity



Reliability



56% Arrive late and/or miss transfer due to delays

- ▶ Shared, unsignalized entrance to the site causes delays for buses
- ▶ Boarding platform location creates access conflicts between cars and buses

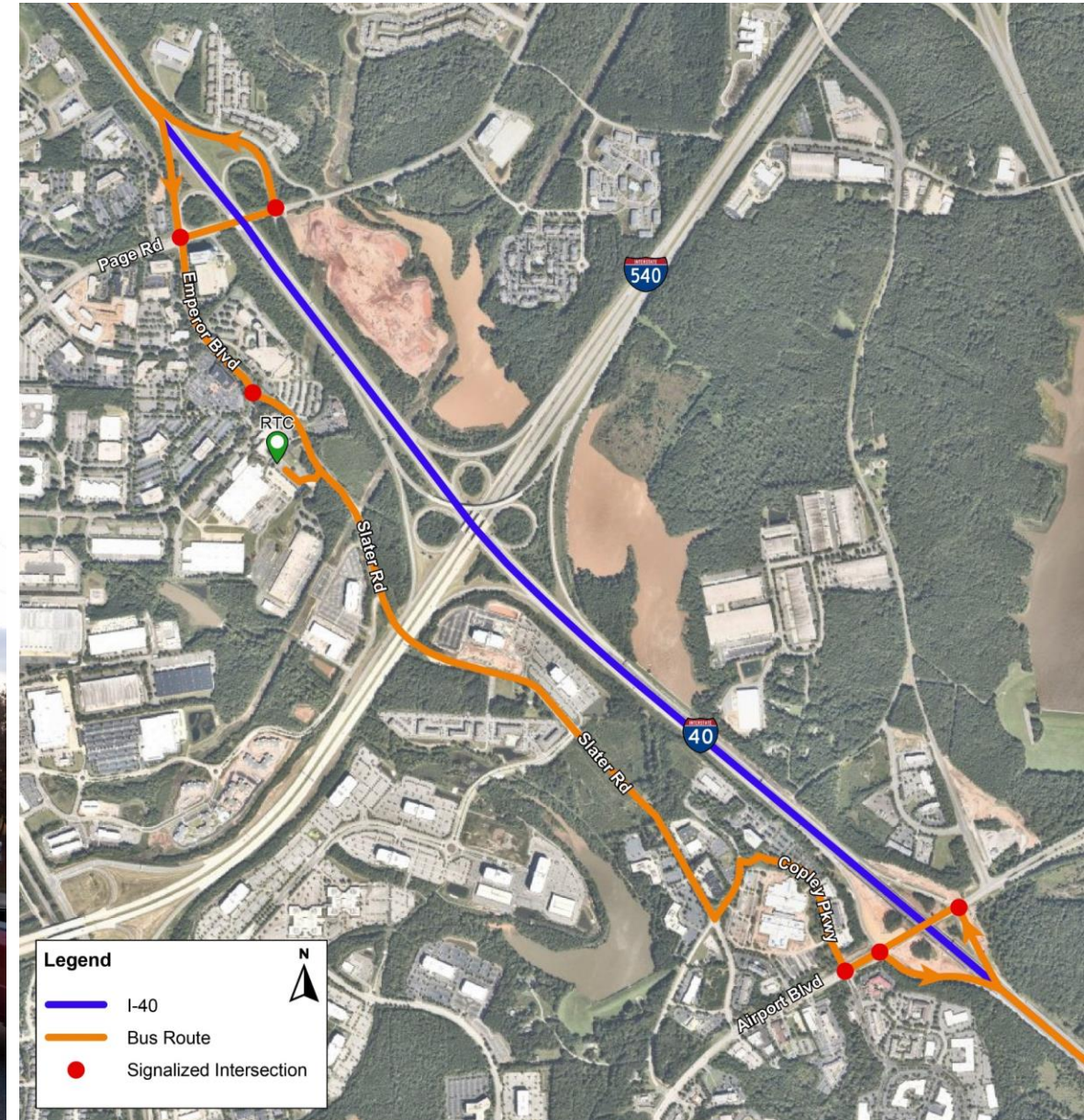


Speed



82% Rated improving bus speeds as important or very important

- ▶ Access to freeway network
- ▶ Multiple areas of delay



Site Search and Evaluation

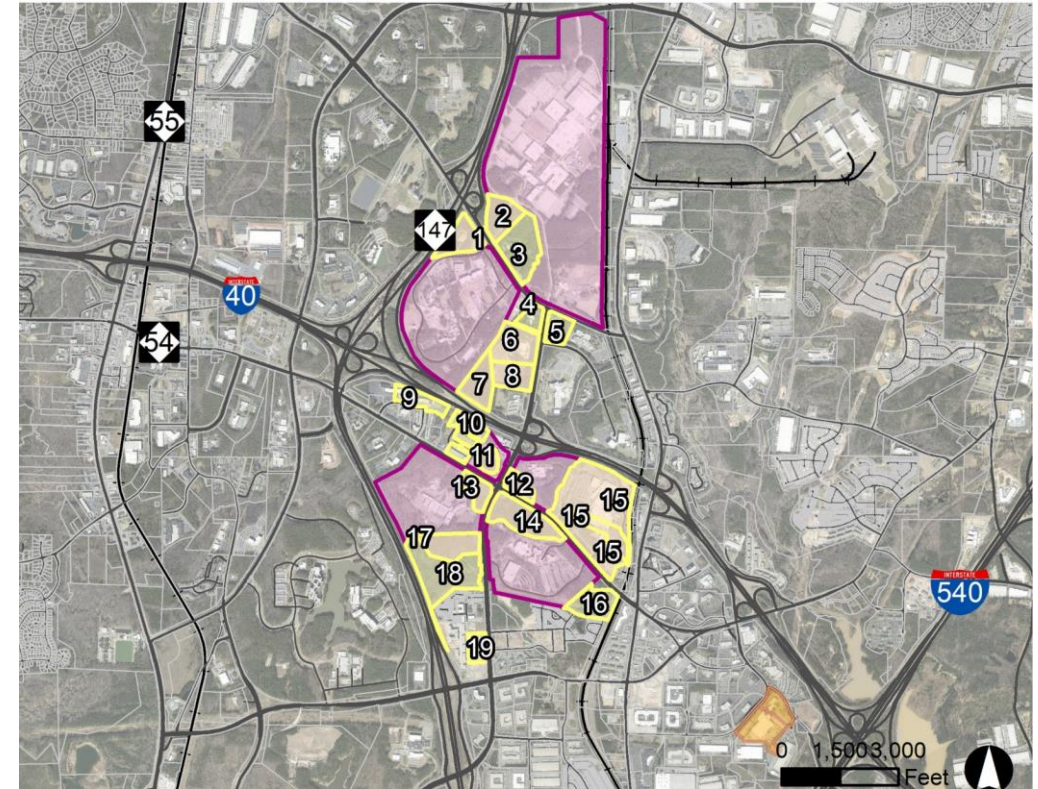


Site Requirements

- ▶ Multiple points of entry
- ▶ 1 mile max. from I-40
- ▶ Close to other major freeways
- ▶ Signalized and dedicated entrance
- ▶ 200 park-and-ride spaces min.
- ▶ **Without** headquarters: **7 acres min.**
- ▶ **With** headquarters and/or potential Joint Development: **14 acres min.**

Regional Transit Center Relocation Study Round 4

- Regional Transit Center
- Identified Parcel
- Parcels to be Subdivided
- Parcel
- Rail



Parcel Search Process

Round 1
• 113 sites



Round 2
• 97 sites



Round 3
• 43 sites



Round 4
• 19 Sites

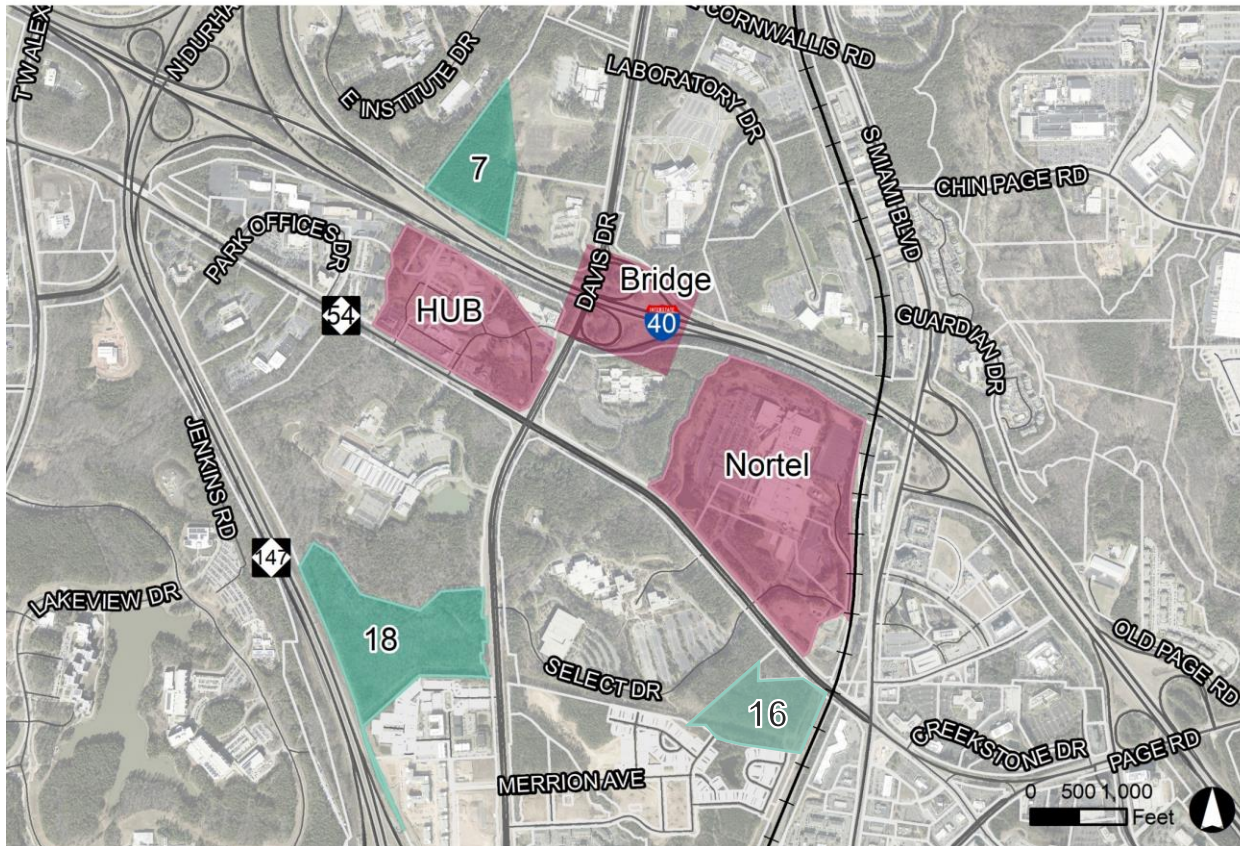


Round 5
• 6 sites

Parcel Search Process – Results

Regional Transit Center Relocation Study
Context Map

Potential Site Rail
Opportunity Site Parcel

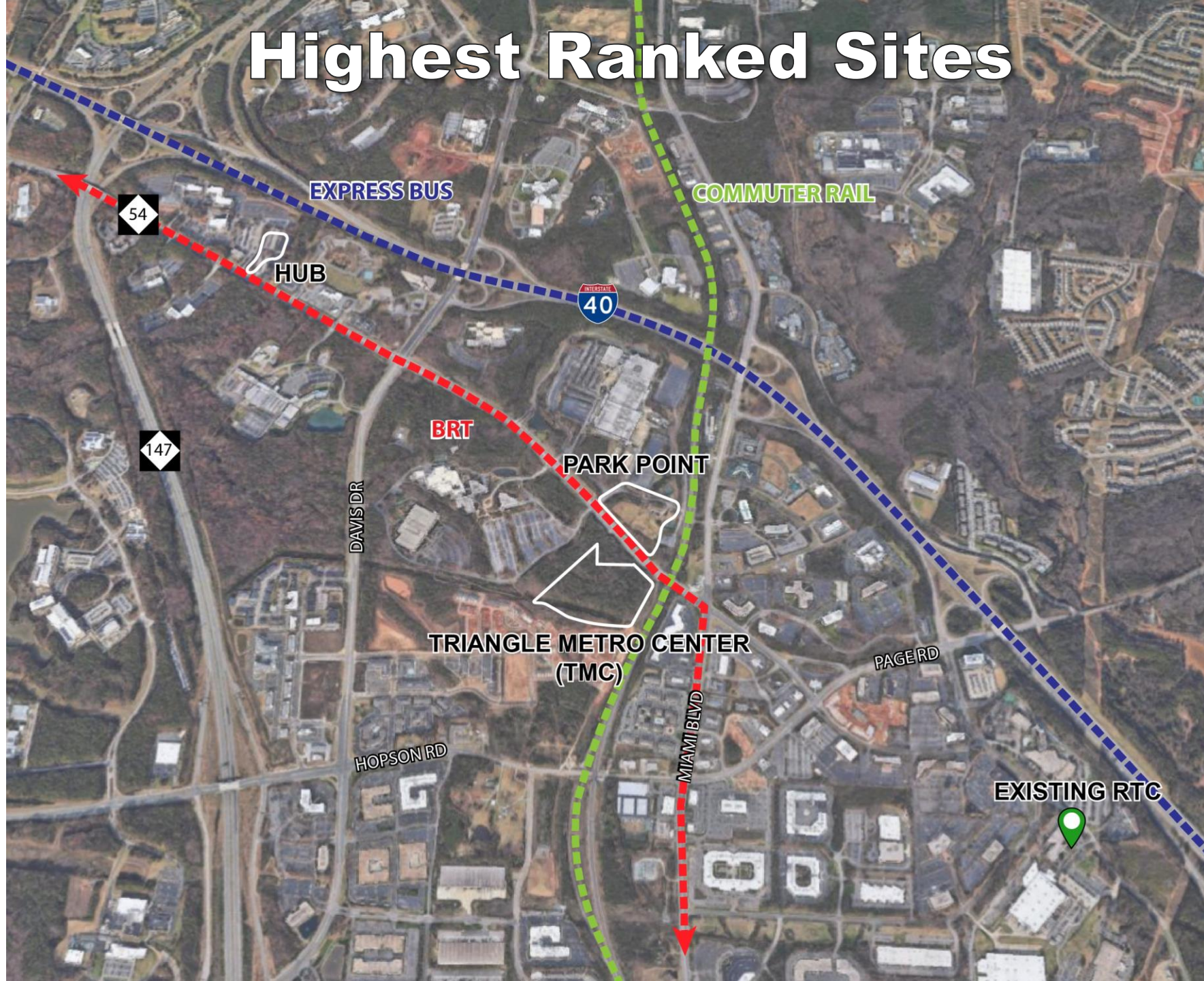


- ▶ Parcel search process yielded 6 potential sites
- ▶ 3 sites are GoTriangle identified opportunity sites

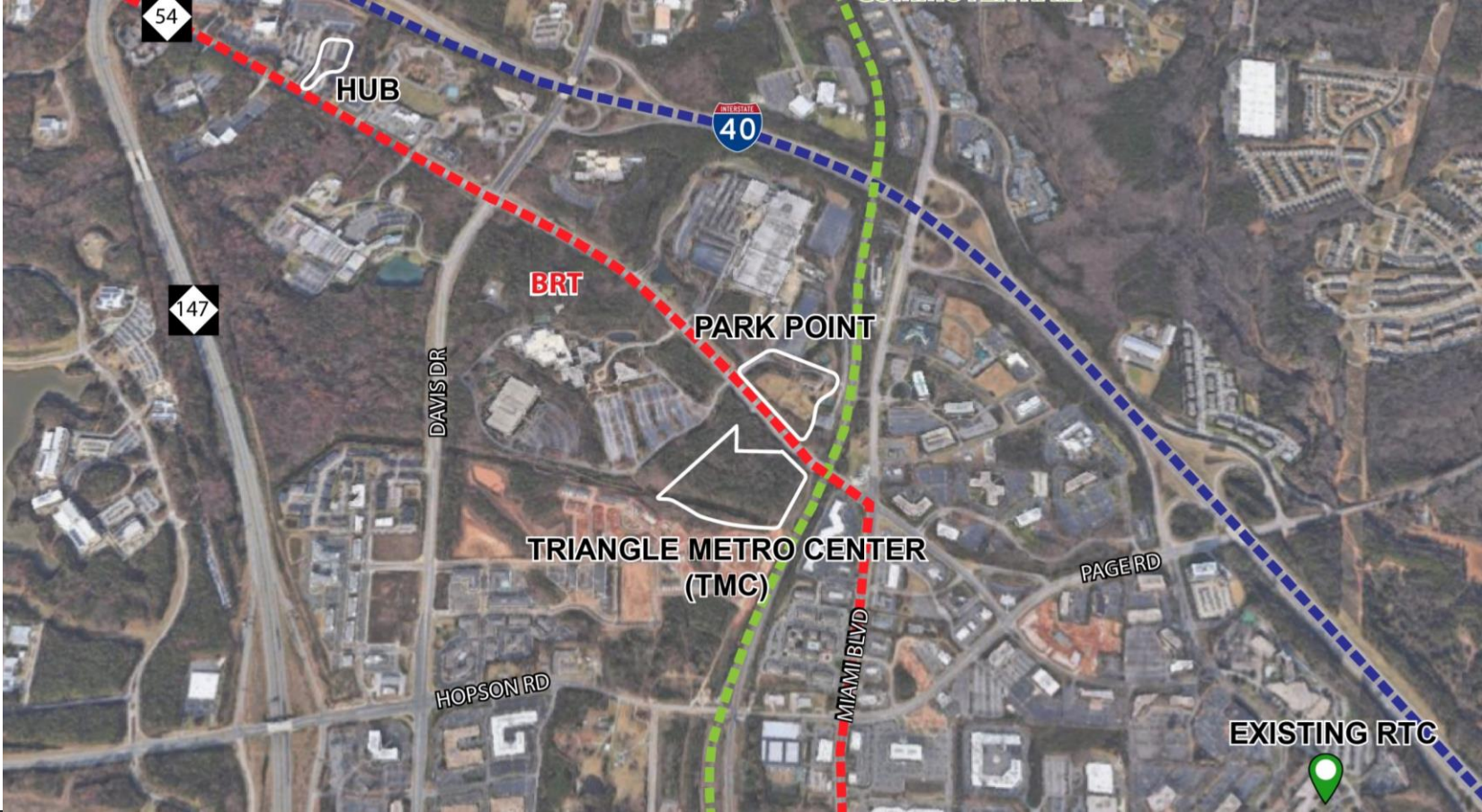
Top Scoring Sites



Highest Ranked Sites



Location Evaluation



Goal		HUB	Park Point	TMC	Existing
Mobility (30%)	Reduce travel time to and from highway network	3.80	3.80	3.00	2.60
Community (20%)	Improved access to goods, services, and potential development	4.50	4.50	3.00	1.25
Viability (20%)	Ease of acquisition and constructability	3.40	3.40	3.80	2.40
Walk Access (10%)	Access to existing employment	2.00	3.00	4.00	1.00
Multimodal (20%)	Provide connections to commuter rail and BRT	3.60	5.00	5.00	1.35
Total		3.64	4.02	3.66	1.88

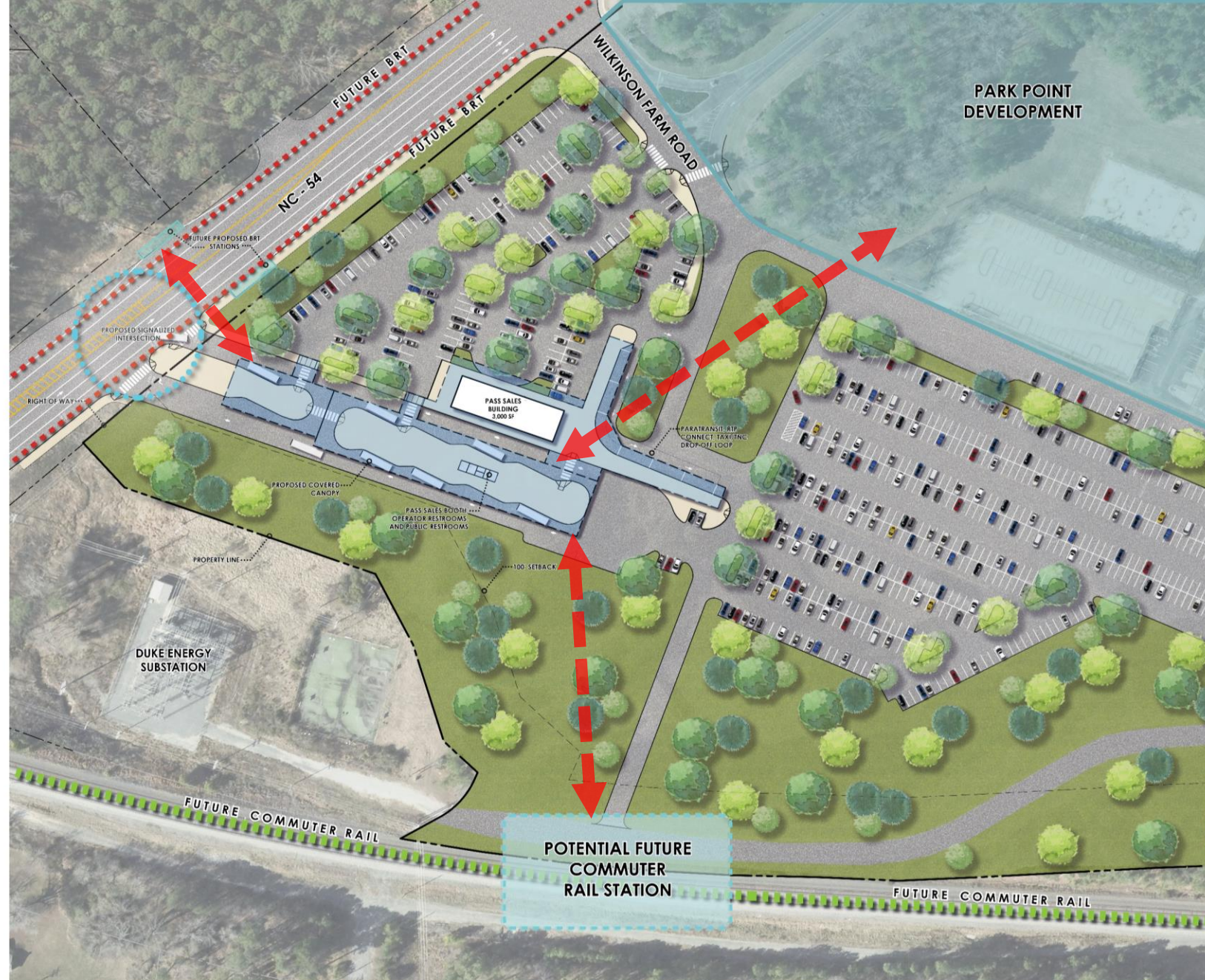
Conceptual Program:

The following design concepts and renderings are illustrative and they are intended to convey the approximate size, connections, capacity, and level of investment in the facility. They are not indicative of final site layout and are subject to change.



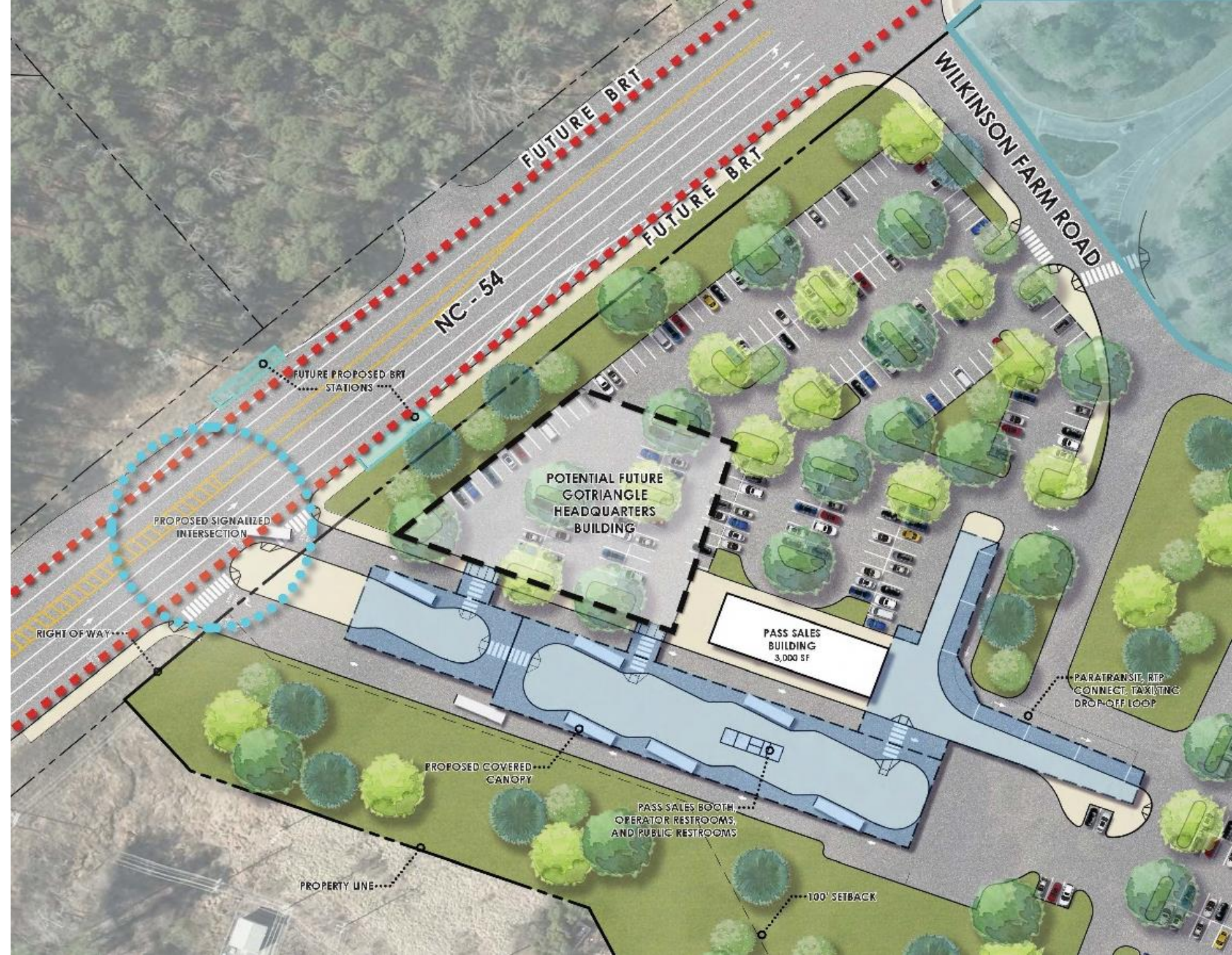
Conceptual Program

- ▶ Bus-only driveway and traffic signal at NC 54
- ▶ Access to planned Bus Rapid Transit, Commuter Rail, Triangle Bikeway
- ▶ First / mile last mile connectivity to Hub RTP

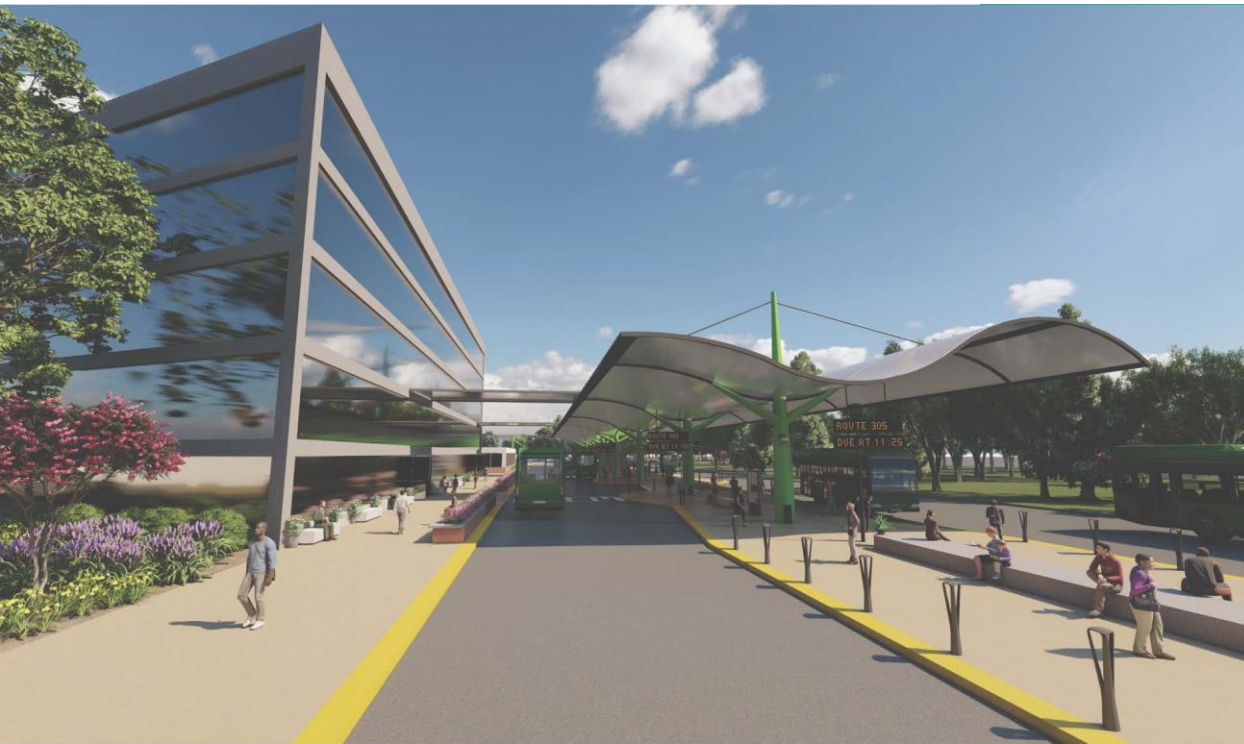


Conceptual Program

- ▶ 10 Bus Boarding Bays
- ▶ 2 Out-of-Service Bays
- ▶ Drop-Off Loop
- ▶ Pass sales booth & comfort station on boarding platform
- ▶ 5,000 SF Waiting room / meeting space / office
- ▶ Potential administrative building on site



Renderings

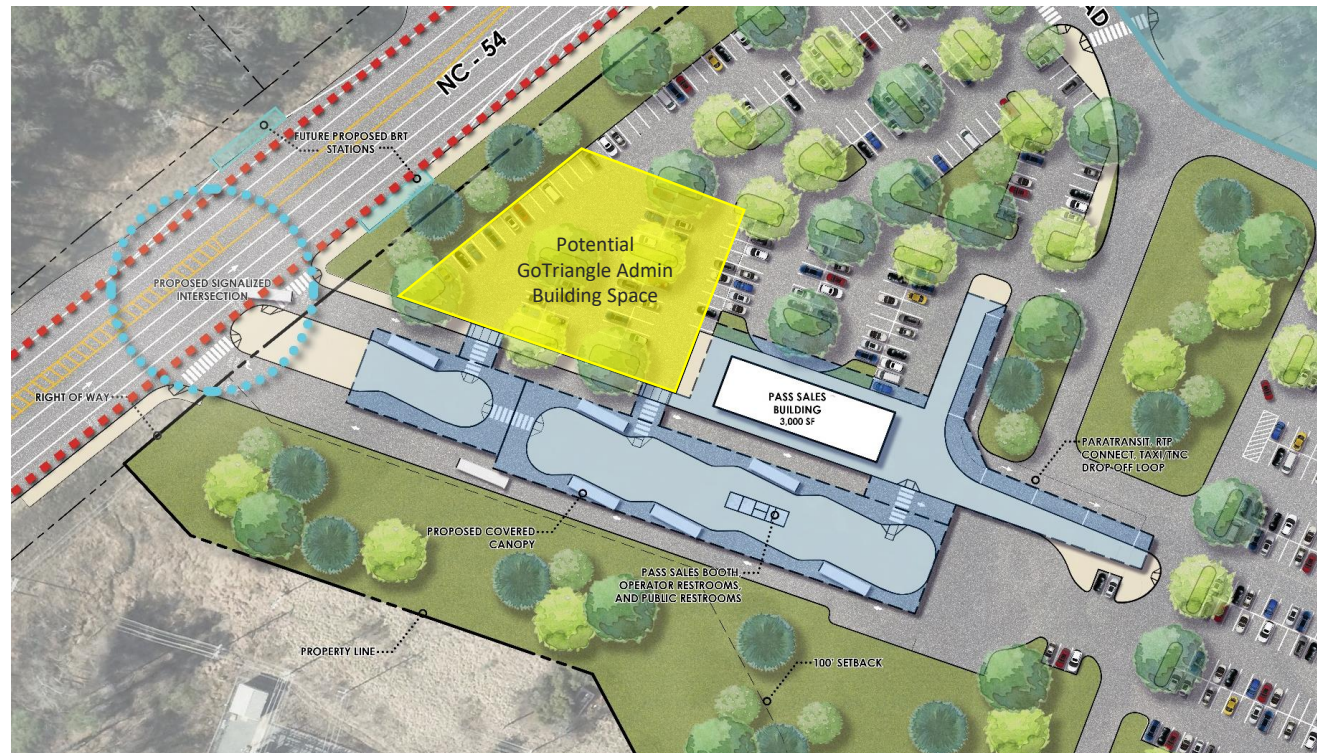


Implementation Approach

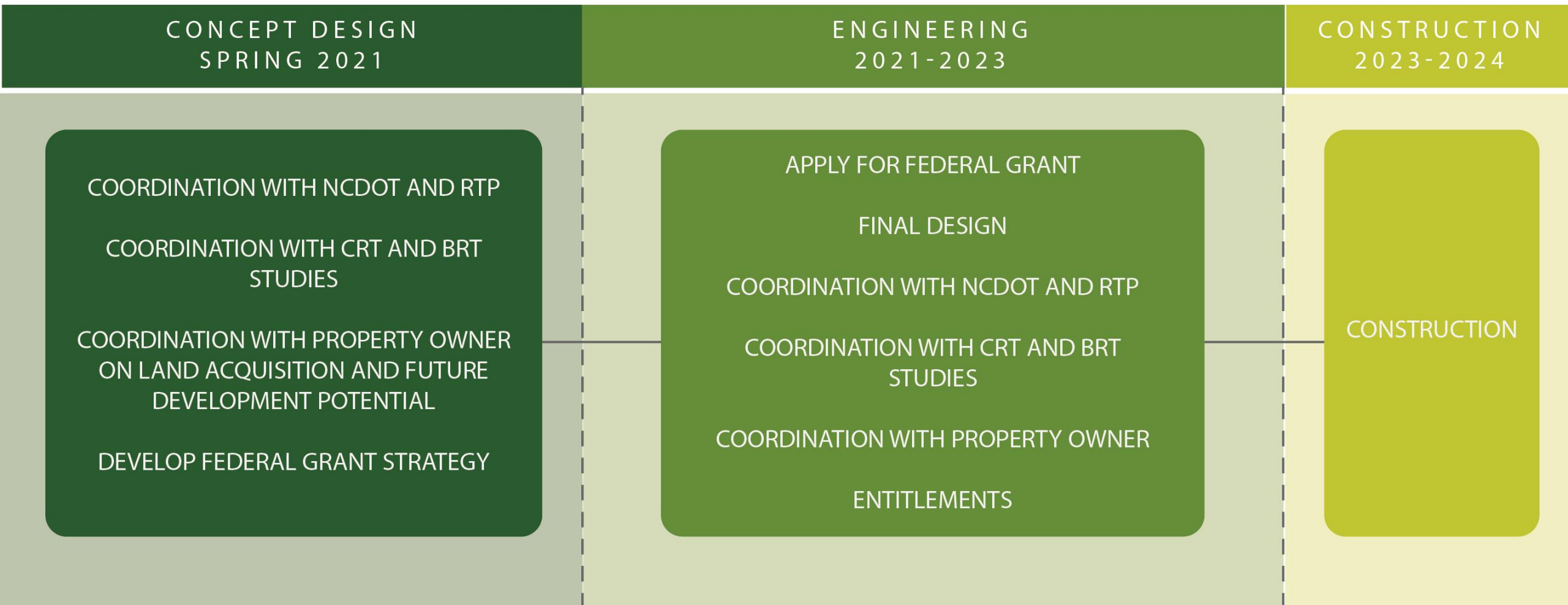


Implementation Approach

- ▶ Begin design and implementation of transit center
- ▶ Fund design and land acquisition in FY22 County Transit Plan annual workplans
- ▶ Continue to evaluate potential relocation of GoTriangle admin space to the new regional transit center location



Next Steps



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