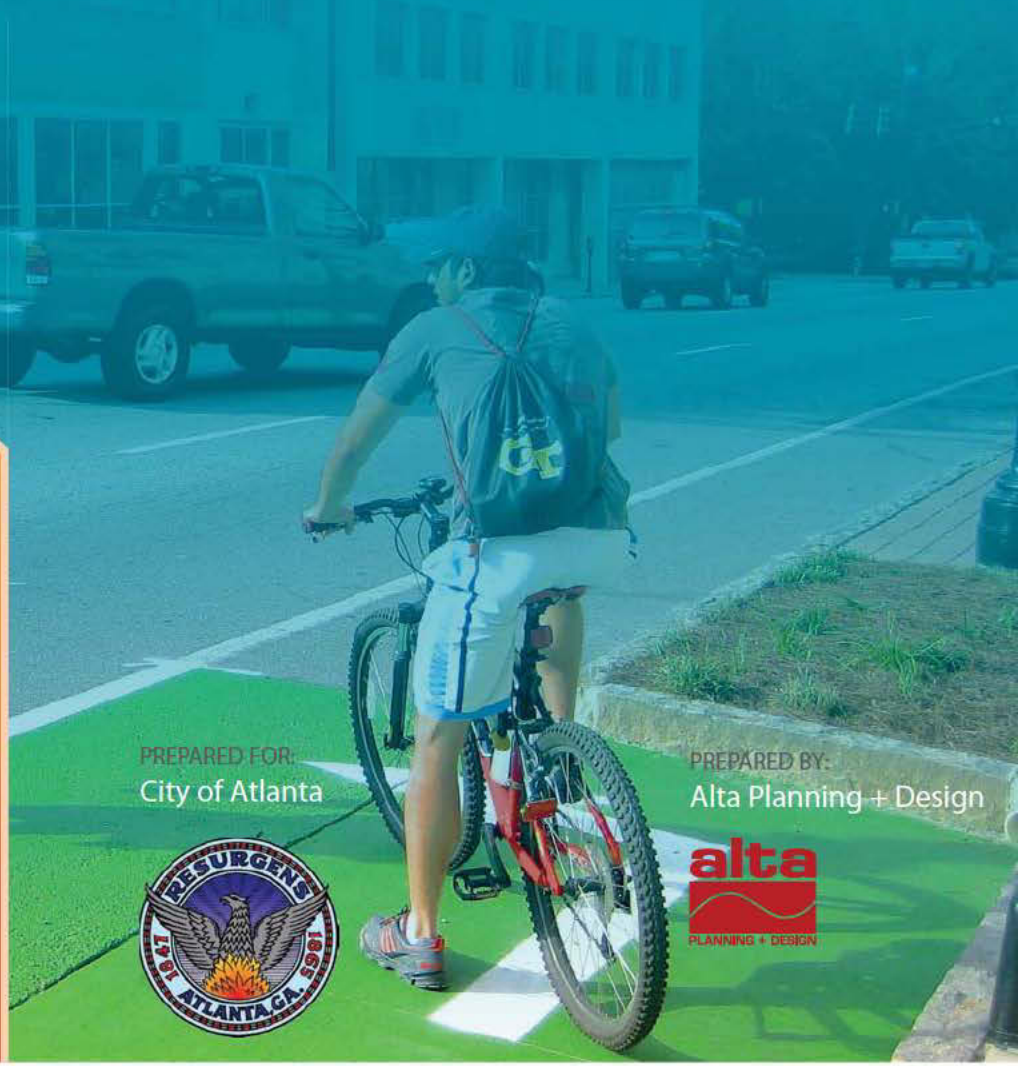
Cycle Atlanta: Phase 1.0 Study

A supplement to the Connect Atlanta Plan



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Introduction

An overview of findings and recommendations

Overview

The *Cycle Atlanta: Phase 1.0 Study* represents **a strategy to create a complete and connected network of high-quality bicycle facilities in the core of the city.** The focus of the study is on five cycling corridors that extend from the Atlanta BeltLine into the center of the city. Completing the bikeway network along each of these corridors will **improve cycling conditions and expand route options that are desirable for a wide range of cyclists.** When implemented, the improved and expanded bikeway network will **enhance connections between neighborhoods, job centers, transit stations, tourist attractions, shops, and restaurants, as well as other daily destinations.**

The *Cycle Atlanta: Phase 1.0 Study* is a supplement to the *Connect Atlanta Plan*, which is the adopted transportation plan for the City of Atlanta. While the *Connect Atlanta Plan* includes a city-wide network strategy to improve cycling routes, it does not provide specifics related to facility types and alignments along the five corridors that are the focus of this study.

Additionally, since the adoption of the *Connect Atlanta Plan*, the City of Atlanta has continued to experience tremendous growth in cycling rates and bikeway facility design has advanced considerably. Now, new and innovative bikeway facility treatments go beyond shared lane markings and standard bike lanes, which were the main bikeway facilities described in the *Connect Atlanta Plan*.

To address the growing demand for better cycling conditions and provide more specific details for implementation, this study was developed. **In short, the *Cycle Atlanta: Phase 1.0 Study* is an implementation strategy to develop dedicated, high-quality bikeways in the core of the City.**

The Atlanta BeltLine Eastside Trail supports recreation and transportation needs in Atlanta.

The 10th Street cycle track provides a protected bikeway facility connection between the Atlanta BeltLine Eastside Trail, Piedmont Park, and Midtown Atlanta.

Study Highlights

The *Cycle Atlanta: Phase 1.0 Study* is a comprehensive implementation strategy for bicycling improvements in the core of the City. Important facts and features include:

Expand network of high-quality bicycle facilities - When implemented, the *Cycle Atlanta: Phase 1.0 Study* will add 31 miles of bikeway facilities that will include bike lanes, cycle tracks and multi-use paths. This addition more than doubles the existing network of 30 miles of bikeway facilities in the *Cycle Atlanta: Phase 1.0 Study area*.

Create a complete and connected bikeway network - When implemented, the proposed network will "fill the gaps" in the existing bikeway network by providing cyclists with a contiguous bikeway network in the city center.

Connect bicyclists to transit - The *Cycle Atlanta: Phase 1.0 Study* corridors connect to all of the MARTA stations within the Atlanta BeltLine loop as well as the Atlanta Streetcar. In total, the corridors connect directly with 12 of the 24 MARTA stations in the City of Atlanta.

Connect people to jobs - The study corridors connect two of the largest job centers in the Atlanta Region – Midtown and Downtown – as well as major employment hubs including universities, hospitals, and other civic institutions.

Connect people to neighborhoods - The study corridors pass through 35 neighborhoods. The proposed bikeway network will help people who live in the core of the city connect to jobs, parks and green spaces, and other daily destinations.

Develop new data metrics for cycling in Atlanta - In coordination with the Atlanta Regional Commission and the Atlanta Bicycle Coalition, researchers at the Georgia Institute of Technology worked with the City of Atlanta to develop a cycling-specific app. The app is being used to identify who is riding, where are they riding, and track changes in cycling rates over time as investments in cycling infrastructure are made.

Connect people to and from the Atlanta BeltLine - The Atlanta BeltLine is becoming a destination as well as a route option for people biking to different destinations in the City. The *Cycle Atlanta: Phase 1.0 Study* bikeway network improves cycling connections to the Atlanta BeltLine by providing dedicated bicycle facilities along major street corridors.

Support a healthy and positive city image - The image of a 21st century city is one where people are active, healthy, and social. Completing the bikeway network will help the City increase cycling rates, which will in turn create an positive and active image of Atlanta.

Expand sustainable transportation options - The City of Atlanta is committed to expanding mobility options and reducing the carbon footprint of people living in, working in, and visiting the City. Cycling is a clean mode of transportation that reduces the need for fossil fuels and minimizes the impacts of transportation on air quality.

Create supportive cycling environment for a bike share system - One of the city-wide cycling goals for Atlanta is to launch a bike share system. Building the recommended bikeway network will create a supportive cycling environment for the wide range of bike share users.

Goals

The goals for *Cycle Atlanta: Phase 1.0 Study* support the larger city-wide goals for cycling and transportation. As mentioned previously, this study is a supplement to the larger transportation strategy for Atlanta, which is outlined in the *Connect Atlanta Plan*.

City-Wide Transportation Goals

The overall goals defined in the *Connect Atlanta Plan* include:

- **Build Transit Infrastructure**
- **Improve Existing Transit Service**
- **Promote Sustainable Travel Modes**
- **Untangle 'Hot Spots'**
- **Achieve a State of Good Repair**
- **Develop New Funding Sources**

The *Cycle Atlanta: Phase 1.0 Study* supports these larger goals by improving access to transit and expanding infrastructure that supports bicycling. It improves and expands travel options for residents, workers, and visitors, while improving street conditions and taking advantage of new or previously untapped funding sources.

City-wide Cycling Goals

Looking specifically at cycling in Atlanta, this planning study is part of an overall effort by the City of Atlanta to improve cycling conditions and rates in Atlanta. City-wide goals for cycling improvements include:

- **Double bicycle commute to work mode share to 2.2% by 2016**
- **Become top ten city in US for cycling to work (#23 in 2012)**
- **Become top ten city for cycling safety (#17 in 2012)**
- **Double miles of high-quality bicycle lanes/cycle tracks to 60 miles**
- **Double miles of high-quality linked shared-use paths to 60 miles**
- **Secure Silver or Gold Bicycle Friendly Community status**
- **Introduce bicycle sharing program that supports local economy**
- **Address several strategies in Power to Change, the City's long-term sustainability plan, including: air quality, community health/vitality, jobs and competitiveness and transportation**

Cycle Atlanta: Phase 1.0 Study Goals

In addition to the city-wide cycling goals, several specific goals were developed for *Cycle Atlanta: Phase 1.0 Study*. They include:

- **Prioritize "high quality" bikeway projects**
- **Design bikeway networks and facilities to attract riders that categorize themselves as "interested but concerned"**
- **Expand bicycle connectivity to all segments of the city**
- **Emphasize connectivity and accessibility for bikeway networks and facilities**
- **Develop baseline data for cycling rates, activities, and users to track impact of investment in bicycle infrastructure**
- **Raise awareness of the bikeability of Atlanta with education and promotional activities**

The design and implementation strategies presented as part of this study support all of the goals outlined above.

Design Cyclists

Development of route options and the types of facilities for this project focused on the type of cyclists that should be accommodated with new investments in bike infrastructure. The Handlebar Committee, along with the public, developed the following criteria for the type of cyclists that bike facilities should accommodate:

- **Women**
- **Parents and their children**
- **College students**
- **Seniors and older adults**
- **Minorities**
- **Youth – Make it safer for elementary, middle, and high school students to ride a bike to school**
- **City residents and workers that commute to job centers or to or from MARTA stations by bike**

The overall focus with these cyclists is that cycling is something everyone should feel comfortable doing, regardless of their skill level, race, economic background, or age. Additionally, if facilities are designed that accommodate people that are more cautious about riding in traffic, you can also improve the riding experience for those that are more skilled or willing to ride in traffic. This approach was a key factor guiding the development of the *Cycle Atlanta: Phase 1.0 Study* bikeway network and corresponding bikeway facilities.

Network Overview

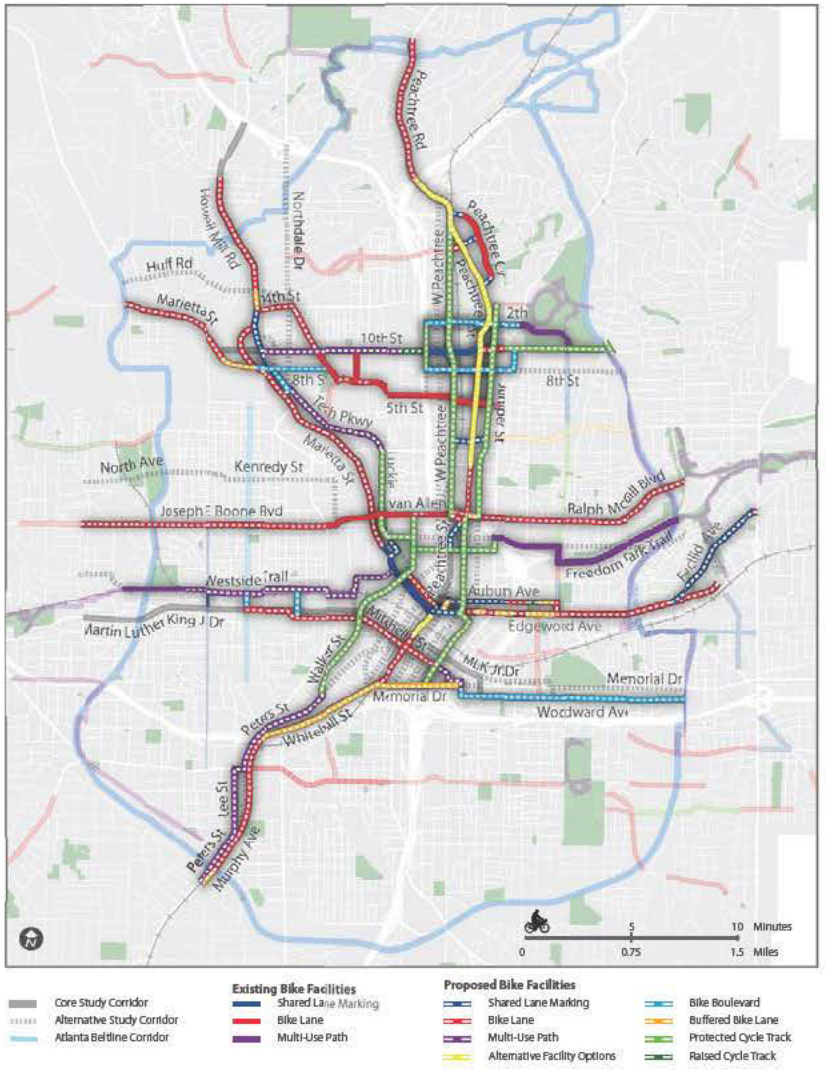
The overall goal for network design with this project is to develop five high-quality corridors that are complete and extend from the Atlanta BeltLine to the core of the city. Additionally, the goal is to develop a network that includes higher quality facilities that accommodate a wider range of cyclists.

Each of the five corridors analyzed and designed as part of this study were identified as "Core Bicycle Corridors" in the *Connect Atlanta Plan*, the City of Atlanta's Comprehensive Transportation Plan. Additionally, each of the five corridors include "Secondary Bicycle Corridors" that offer alternative alignment options for each corridor. Each of the five corridors are summarized on the subsequent page and described in detail in their respective chapters of this report.

The maps on this page highlight the Connect Atlanta routes that established the study area and the refined network map that presents the proposed alignments and associated facility types proposed for *Cycle Atlanta: Phase 1.0 Study*.

Connect Atlanta Route Alignment Map

Cycle Atlanta: Phase 1.0 Study Network Map



Corridor Summary

The core bicycle facilities and their alternative route options were used to guide the alignments for each corridor. Below is a summary of the context for each corridor. Additionally, each corridor has a stand-alone chapter in this report that describes the proposed network and facility designs in detail.

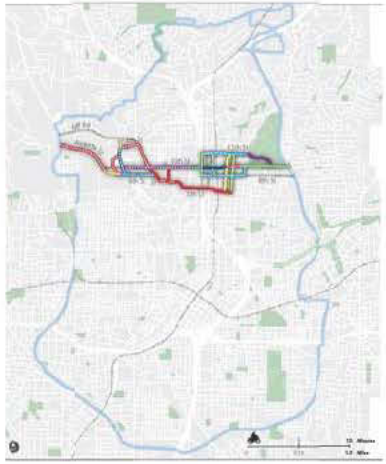
Corridor A

Peachtree Rd – W Peachtree St (US 19/SR 9) – Peachtree St – Whitehall St – Murphy Ave

- **7.1 miles** or **47 minutes** by bike
- Connects **8 MARTA stations**
- Connects **14 neighborhoods**
- Connects **5 NPUs**
- Connects **7 council districts**

Corridor B

W Marietta St – 10th St



- **3.6 miles** or **24 minutes** by bike
- Connects **1 MARTA station**
- Connects **6 neighborhoods**
- Connects **3 NPUs**
- Connects **3 council districts**

Corridor C

JE Boone Blvd – I Allen Jr Blvd – R McGill Blvd

- **4.5 miles** or **30 minutes** by bike
- Connects **1 MARTA station**
- Connects **9 neighborhoods**
- Connects **3 NPUs**
- Connects **2 council districts**

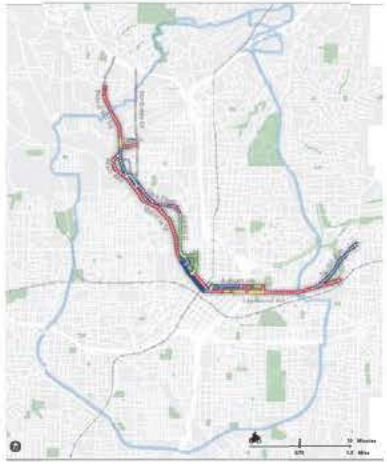
Corridor D

ML King Jr Dr – Woodward Ave

- **4.3 miles** or **28 minutes** by bike
- Connects **3 MARTA stations**
- Connects **11 neighborhoods**
- Connects **5 NPUs**
- Connects **5 council districts**

Corridor E

Howell Mill Rd – Marietta St – Edgewood Ave – Euclid Ave



- **6.7 miles** or **45 minutes** by bike
- Connects **3 MARTA stations**
- Connects **11 neighborhoods**
- Connects **4 NPUs**
- Connects **3 council districts**

Expanding the Network

When implemented, the *Cycle Atlanta: Phase 1.0 Study* recommendations will expand the existing bikeway network and "fill the gaps" between existing facilities. The completed network will increase the number of miles of bikeway facilities within the *Cycle Atlanta: Phase 1.0 Study* area by 103%, from 30 miles to 61 miles. The sections and charts below summarize existing conditions in the study area as well as the distribution of facility types. The recommendations will expand the number of miles of bikeway facilities available for cyclists and the type of facilities cyclists can use.

Within the study area, there are...

30 miles of existing bikeways.

31 miles of proposed bikeways.

The proposed bikeways will expand the study area network by...

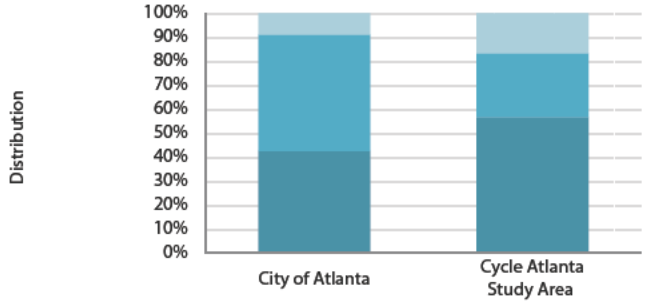
103% when implemented.

Existing Bikeway Facilities

At the end of 2012, the City of Atlanta had 69 miles of bikeway facilities. These facilities included shared lane markings, bike lanes, and multi-use paths. Within the study area, there are 30 miles of bikeways. Additionally, the facilities within the study area represent 44% of all of the facilities in Atlanta.

By facility type, the majority of facilities city-wide and within the study area are bike lanes and multi-use paths. Within the study area, the majority of facilities are multi-use paths, followed by bike lanes and shared lane markings.

Existing Bikeway Facilities



	City of Atlanta	Cycle Atlanta Study Area
Shared Lane Marking	6	5
Bike Lane	34	8
Multi-Use Path	29	17
Total	69	30

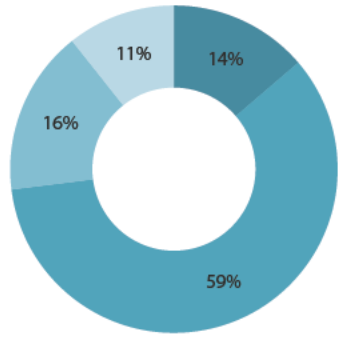
Proposed Bikeway Facilities

By implementing the recommendations for this study, the City of Atlanta will double the bikeway network in the core of the City. In total, the recommendations for *Cycle Atlanta: Phase 1.0 Study* represent 31 miles of new bikeway facilities.

By facility type, bike lanes represent the majority of the bikeway facilities with 18 miles, or 59%, recommended. Shared lane markings represent 16%, or 4 miles, of recommended bikeway facilities.

The recommendations also significantly expand the amount of separated facilities, including cycle tracks and multi-use paths. These facilities are desired by a wider range of cyclist skill levels, particularly those not comfortable riding in traffic. The recommendations add 5 miles of cycle tracks and 3 miles of multi-use paths. These facilities represent 25% of the recommended bikeway miles for this study.

Proposed Bikeway Facilities



	Distance (miles)
Shared Lane Markings	4
Bike Lanes	18
Cycle Tracks	5
Multi-Use Paths	3
	31

Funding Strategy

The cost estimates for this project were developed to help the City of Atlanta and its partners prioritize the bikeway projects presented in this study. The cost estimates can be used to develop stand-alone projects for implementation or they can be incorporated into broader transportation projects. Example projects include resurfacing projects, streetscape projects, re-striping projects, or other transportation projects that present an opportunity to incorporate the bikeway recommendations in this study.

The subsequent sections on this page describe the cost estimate methodology, the distribution of cost by corridor and bikeway facility type, as well as a summary of the Peachtree Street alternative treatment options. Additionally, project cost estimates are summarized at the beginning of each corridor chapter and in the appendix.

Cost Estimate Methodology

The cost estimates for *Cycle Atlanta: Phase 1.0 Study* are planning-level cost estimates. They include an estimate of probable cost for construction, design, and contingency. Construction costs may include pavement marking removal, new pavement marking, bicycle signals and traffic signals, tubular markers, and multi-use path construction. Design costs are estimated to be 25% of construction costs and contingency is estimated to be 20% of construction costs.

The cost estimates do not include estimates for utility re-location, resurfacing, or right-of-way acquisition. These costs will need to be identified and developed as the projects go through the scoping, design, and construction phases. For projects that do need additional scope development, it has been noted in the *Design Schematics* section for each corridor chapter.

Resurfacing costs were specifically not included because not all of the streets with proposed bikeways require resurfacing. Some of the facilities can be implemented simply with removal of existing lane markings and the application of new pavement markings, signage, or signals. To estimate an order of magnitude cost, the City of Atlanta uses $250,000 per mile for resurfacing planning-level cost estimates.

Peachtree Street Alternative Treatment Options

For this study, two cost estimates for Peachtree Street, from Interstate 85 to Linden Avenue, were developed. One option is for bike lanes and the estimated cost is $376,163. A second option is for shared lane markings and the estimated cost is $75,235. The cost estimate summaries on this page include the bike lane option and do not include the shared lane marking option. Additionally for more detailed information about the considerations associated with each option, see the *Corridor A* chapter.

Cost Summary

Overall, the cost estimates for all *Cycle Atlanta: Phase 1.0 Study* projects is $8,819,965, or $284,515 per mile. The most expensive corridor to implement will be Corridor A. It is also the longest corridor and will cost $4,216,955, or 48% of the total estimated cost for this study. The least expensive corridor to implement is Corridor D. It is also the shortest corridor and will cost $322,502, or 4% of the total estimated cost for this study.

Cost By Corridor

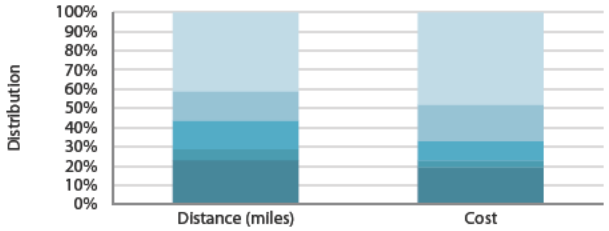
By cost, Corridor A is the most expensive corridor but also the longest corridor. It will costs $4,216,955, or 48% of the total estimated cost for this study, to implement. Corridor D is the least expensive corridor but also the shortest. It will cost $322,502, or 4% of the total estimated cost for this study, to implement.

Cost by Facility Type

By facility type, bike lanes are the most expensive bikeway facility and represent 41% of the total estimated costs for this study. However, they also represent 58%, or 18 miles, of the total new bikeway miles for this study. Shared lane markings are the least expensive bikeway facility and represent just 5% of the total estimated costs for this study. However, they represent 13%, or 4 miles, of the total new bikeway miles for this study.

It should be noted that there is a balance between cost and level of protection or separation between cyclists and vehicles. In relative terms, the cost per mile is higher for cycle tracks and multi-use paths. However these facilities offer greater comfort and safety for cyclists. Likewise, bike lanes and shared lane markings have lower costs per mile but offer less protection and separation between vehicles and cyclists. As projects are prioritized, these considerations will need to be taken into account.

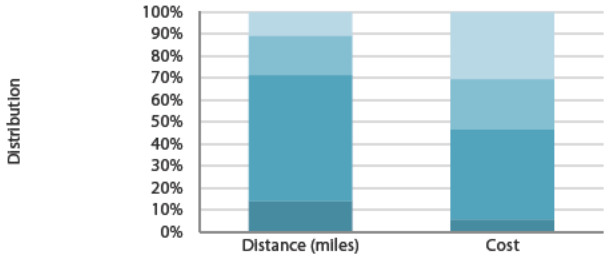
Proposed Facilities Length and Cost by Corridor



	Distance (miles)	Cost
Corridor A	13	$4,216,955
Corridor B	5	$1,703,098
Corridor C	5	$882,881
Corridor D	2	$322,502
Corridor E	7	$1,694,529
Total	31	$8,819,965

Note: Costs include construction, design, and contingency.

Proposed Facilities Length and Cost by Facility Type



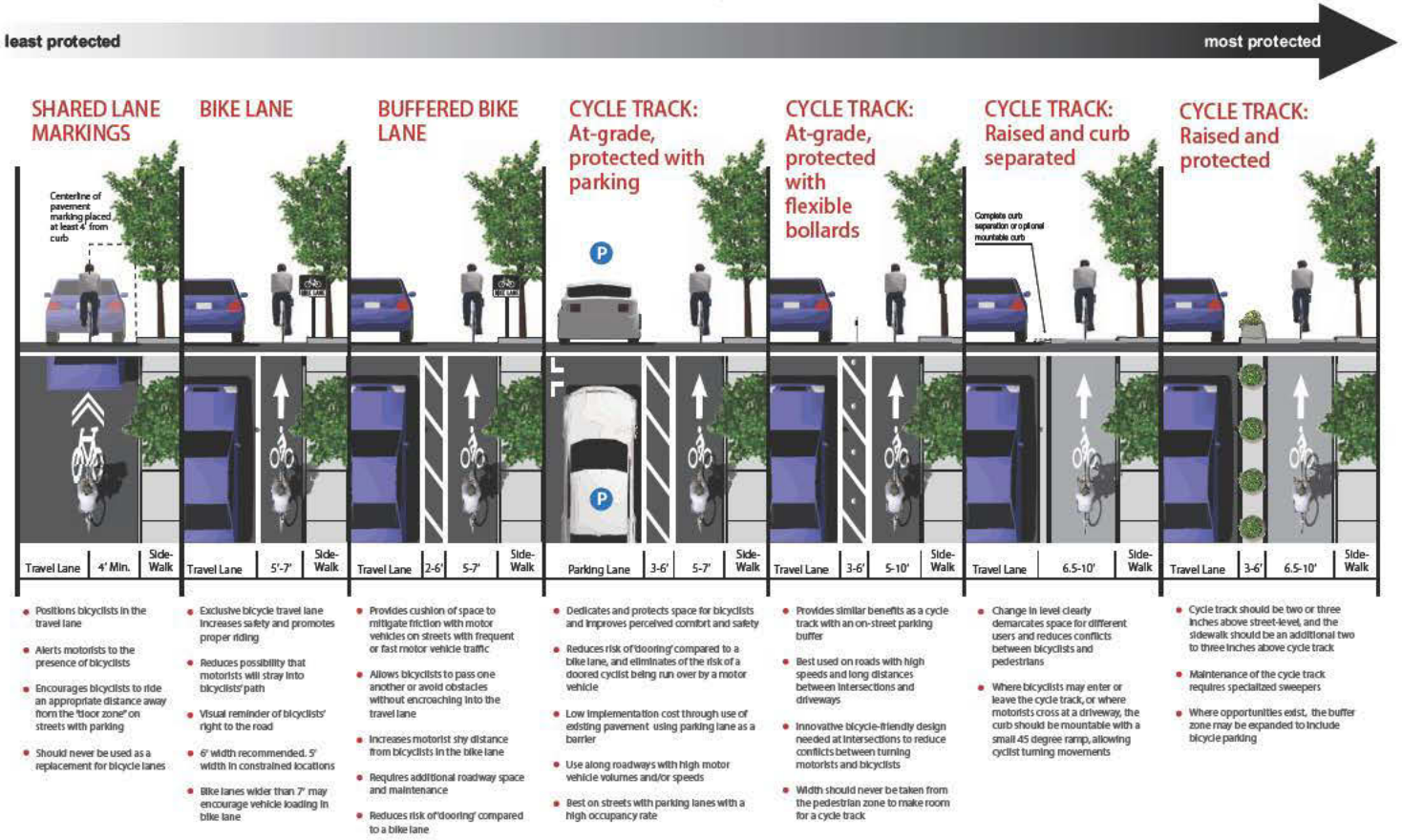
	Distance (miles)	Cost
Multi-Use Paths	3	$2,697,748
Cycle Tracks	6	$2,015,132
Bike Lanes	18	$3,615,899
Shared Lane Markings	4	$491,186
Total	31	$8,819,965

Notes: Costs include construction, design, and contingency.; Bike lane category includes bike lanes, contra-flow bike lanes and buffered bike lanes.

On-Street Marked Bikeway Continuum

As a general rule, the level of comfort for cyclists is a balance between traffic volumes, speeds, and physical separation from vehicular traffic. On streets with lower traffic volumes and speeds, people can feel safe sharing travel lanes with vehicles. For these streets, shared lane markings can suffice to improve the level of comfort for cyclists. However, along streets with higher traffic volumes and speeds, and dedicated and protected space for people, cycling helps improve safety and the perception of safety for interested cyclists.

The diagram on this page provides a graphic summary of the continuum of on-street marked bikeway facilities. For this project, a full range of facility types was selected to create a balanced bikeway network that can accommodate a wider range of rider types.



- Positions bicyclists in the travel lane
- Alerts motorists to the presence of bicyclists
- Encourages bicyclists to ride an appropriate distance away from the "door zone" on streets with parking
- Should never be used as a replacement for bicycle lanes

- Exclusive bicycle travel lane increases safety and promotes proper riding
- Reduces possibility that motorists will stray into bicyclists' path
- Visual reminder of bicyclists' right to the road
- 6' width recommended. 5' width in constrained locations
- Bike lanes wider than 7' may encourage vehicle loading in bike lane

- Provides cushion of space to mitigate friction with motor vehicles on streets with frequent or fast motor vehicle traffic
- Allows bicyclists to pass one another or avoid obstacles without encroaching into the travel lane
- Increases motorist shy distance from bicyclists in the bike lane
- Requires additional roadway space and maintenance
- Reduces risk of 'dooring' compared to a bike lane

- Dedicates and protects space for bicyclists and improves perceived comfort and safety
- Reduces risk of 'dooring' compared to a bike lane, and eliminates of the risk of a doored cyclist being run over by a motor vehicle
- Low implementation cost through use of existing pavement using parking lane as a barrier
- Use along roadways with high motor vehicle volumes and/or speeds
- Best on streets with parking lanes with a high occupancy rate

- Provides similar benefits as a cycle track with an on-street parking buffer
- Best used on roads with high speeds and long distances between intersections and driveways
- Innovative bicycle-friendly design needed at intersections to reduce conflicts between turning motorists and bicyclists
- Width should never be taken from the pedestrian zone to make room for a cycle track

- Change in level clearly demarcates space for different users and reduces conflicts between bicyclists and pedestrians
- Where bicyclists may enter or leave the cycle track, or where motorists cross at a driveway, the curb should be mountable with a small 45 degree ramp, allowing cyclist turning movements

- Cycle track should be two or three inches above street-level, and the sidewalk should be an additional two to three inches above cycle track
- Maintenance of the cycle track requires specialized sweepers
- Where opportunities exist, the buffer zone may be expanded to include bicycle parking

Cycle Atlanta: Phase 1.0 Study Facility Types

A variety of bicycle facilities have been used to develop the *Cycle Atlanta: Phase 1.0 Study* network. The facilities were selected with the overall goal of providing the most protection and separation possible given the conditions along each corridor. Below is a description of the facilities that are described throughout this document in maps and graphics.

Shared Lane Marking

Shared lane markings, or "sharrows," are road markings used to indicate a shared lane environment for bicycles and automobiles. Among other benefits, shared lane markings reinforce the legitimacy of bicycle traffic on the street, recommend proper bicycle positioning, and may be configured to offer directional and wayfinding guidance. It should be noted that shared lane markings are not a facility type, but rather a pavement parking with a variety of use to support a complete bikeway network.

Bike Boulevard

Bicycle boulevards are streets with low motorized traffic volumes and speeds, designated and designed to give priority to bicycle travel. Bicycle Boulevards use signs, pavement markings, and speed volume management measures to discourage through trips by motor vehicles and create safe, convenient crossings of busy arterial streets.

Bike Lane

Bike lanes designate an exclusive space for bicyclists through the use of pavement markings and signage. The bike lane is located adjacent to motor vehicle travel lanes and flows in the same direction as motor vehicle traffic. Bike lanes enable bicyclists to ride at their preferred speed without interference from prevailing traffic conditions.

Buffered Bike Lane

Buffered bike lanes are conventional bicycle lanes paired with a designated buffer space separating the bicycle lane from the adjacent motor vehicle travel lane and/or parking lane. These lanes provide greater separation between bicyclists and motor vehicles, and appeal to a wider cross-section of bicycle users.

Contra-Flow Bike Lane

Contra-flow bicycle lanes are bicycle lanes designed to allow bicyclists to ride in the opposite direction of motor vehicle traffic. They convert a one-way traffic street into a two-way street: one direction of motor vehicles and bikes, and the other bikes only. These lanes are used along corridors where alternative routes include unsafe or uncomfortable streets with high traffic volumes and/or no bicycle facilities or where two-way connections between bicycle facilities are needed along one-way streets.

Protected Cycle Track

A cycle track is an exclusive bike facility that combines the user experience of a separated path with on-street infrastructure of a conventional bike lane. A cycle track is physically separated from motor vehicles and distinct from the sidewalk. Cycle tracks may be one-way or two-way. By separating cyclists from motor traffic, cycle tracks can offer a higher level of security than bike lanes and are attractive to a wider spectrum of the public.

Raised Cycle Track

A raised cycle track is a type of cycle track that is vertically separated from motor vehicle traffic. They may be at the level of the adjacent sidewalk, or set at an intermediate level between the roadway and sidewalk to segregate the cycle track from the pedestrian area. They may also be designed for one-way or two-way travel by bicyclists. A raised cycle track can provide additional separation and protection between bicyclists and motor vehicles.

Multi-Use Path

Multi-use paths are off-street bike facilities that are designed to accommodate bicyclists and pedestrians. Multi-use paths can be placed adjacent to a street and take the place of a sidewalk or be completely separated from a street, such as along a greenway. Multi-use paths for the *Cycle Atlanta: Phase 1.0 Study* are used to connect the off-street multi-use path network to on-street bike facilities.

Source: Text adapted from the *NACTO Urban Bikeway Design Guide*.

Network Design

The focus for this study was on five bicycle corridors identified in the *Connect Atlanta Plan*, the City of Atlanta's transportation plan. The proposed network design for this study presents a complete and connected network that links the five study corridors to each other, as well as other existing and proposed bikeway facilities. It should be noted that this study does not preclude the need to develop a city-wide bicycle network or to provide bicycle accommodations as part of complete street provisions on all streets in the City.

Several factors were considered when developing the alignments for the *Cycle Atlanta: Phase 1.0 Study* bikeway network. No one factor was given more weight than the others when considering the entire network design. However for different sections of corridors, some factors were given more priority than others.

For example, the corridor alignment along the southern portion of Corridor A provides two parallel route options. One alignment is a protected facility along the western edge of the rail lines and the MARTA lines as the corridor travels from the Atlanta BeltLine to the Centennial Olympic Park area. The other parallel alignment is a bike lane that runs along the eastern edge of the rail lines and MARTA lines as the corridor travels from the Atlanta BeltLine to Downtown. Because there are few places to cross the rail lines in this area, bike facilities are proposed along both sides of the rail lines.

This strategy was used for several reasons. For one, the alignments provide bike facilities for neighborhoods on both sides of the rail lines and accommodate different types of cyclists. The alignments also connect to different destinations once Corridor A enters Downtown.

Additionally, traffic volumes are relatively low along both routes, which allow for travel lane reductions to accommodate bike facilities within the existing curb-to-curb width. However, the street widths and the number of travel lanes along the western alignment more easily accommodate a protected facility while the same considerations along the eastern alignment more easily accommodate bike lanes. This balanced approach of considering a range of design factors was applied to each *Cycle Atlanta: Phase 1.0 Study* corridor when developing the bikeway network.

Network Design Factors

Existing facilities

Completing the network of existing facilities was a key consideration with the network development. The focus was on creating continuous bike facility routes along each of the five study corridors.

Connections to destinations

Providing people with the option of biking to major destinations in Atlanta using dedicated bike facilities was given significant consideration.

Transit connectivity

Improving connections to MARTA stations was an important factor in developing the route alignments. Whether traveling to or from a MARTA station, cyclists will have improved route options to get to their destinations by combining a bike and transit trip.

Route choice

The study alignments are designed to give cyclists more than one route option where possible. People may need to travel one way in the morning from home to work and another way from work to the grocery store in the afternoon. For a variety of reasons, people need more than one route option to get to their destinations by bike. Corridor alignments were developed with this consideration in mind.

Accommodating different rider types

Not every cyclist is comfortable riding along a street with bike lanes or shared lane markings. For some, having a protected facility or a route along a street with low vehicle volumes is preferred. Where possible, parallel route alignments were developed to provide a protected facility or "low stress" route option and a bike lane or shared lane marking route option.

Proposed projects and project coordination

There are many transportation improvement projects that have been proposed or are the process of being implemented. The proposed bike facilities were developed with consideration for previous planning studies, projects scheduled for construction, or projects currently being designed and developed.

Traffic volumes and speeds

Motor vehicle volumes and speeds along proposed routes were one of several factors considered when selecting corridor alignments and the facility type for each alignment. Where motor vehicle volumes and speeds are high, more separation between cyclists and motorists is warranted. Furthermore along many of the study corridors, travel lane reductions are necessary to accommodate bike facilities without moving the existing curb locations. The capacity of roadways to handle motor vehicle traffic with reduced travel lanes was reviewed.

Physical barriers

Physical barriers, such as interstates and rail lines, are a part of traveling in Atlanta. They limit the number of places one can cross from one side to the other and often concentrate all modes of travel to confined crossings, such as bridges or underpasses. Wherever possible, route alignments used existing bridges and underpasses to cross over or under these barriers. Additionally, parallel routes were designed to expand route options on either side of these barriers where possible.

Street network (one way vs two way, short trip vs long trip)

The street network in Atlanta can provide convenience or inconvenience depending on the type of trip and one's final destination. One-way streets can mean having to travel extra distances to get to one's final destination. Additionally, signal timing and the frequency of intersections along certain routes can speed up or slow down one's trip time. With innovations in bike facility designs, two-way cycle tracks and contra-flow bike lanes can create opportunities for two-way bicycle facilities along one-way streets for vehicles. These treatments are often used to provide alternative bicycle routes to major streets with confined right-of-way widths and high vehicular volumes. Additionally, some routes are designed with commuters or longer trips in mind, while other routes are designed to accommodate shorter or more localized trips.

Facility Design

Like the network design approach, several factors were considered when developing the facility designs along each corridor. No one factor was given more weight than the others when considering the entire network design. However for different sections of corridors, some factors were given more priority than others.

Facility design was developed parallel with the network design. For most of the proposed facilities along each corridor, cross sections have been developed for a particular segment. Where a facility type changes or the lane configurations and facility dimensions change, a new cross section was developed. With this project, every corridor has a proposed facility type with dimensions and associated cost estimates, has a project that is already designed and programmed for construction, or already has an existing facility.

Additionally, corridor segments that have already been designed or are going through the construction process do not have cross sections for this study because the designs have already been developed. Examples include the two-way cycle track along 10th Street between Monroe Drive and Piedmont Road, as well as the new streetscape project along MLK Jr. Drive from Ollie Street to Northside Drive.

Facility Design Factors

Right-of-way width

One of the primary considerations with facility design was 'what can be done within the existing right-of-way?' Moving curbs and relocating utilities can increase project costs and the amount of time it takes to design and build a project. For most of the projects developed, the strategy was to use the existing width between the existing curbs to install bikeway facilities and re-configure travel lanes.

Safety

Safety was considered for all roadway users. For many projects, adding bikeway facilities and re-configuring lanes improves street conditions for people driving, biking, and walking. For example, many of the projects include lane reductions that add a center turn lane and bike facilities to a street. The center turn lane can improve the safety of left turn movements for vehicles while the lane reduction creates dedicated space for bicyclists riding along a street. This same approach often has the added benefit of reducing vehicle speeds, which benefits everyone using the street from a safety perspective.

Likewise, important intersections were given extra consideration in order to develop treatments that mitigate conflicts between people driving and biking. The intersection designs are also developed to improve visibility of cyclists at intersections and help bicyclists cross through intersections more safely.

Lane configuration and alignment

Adding bikeway facilities along most of the corridors also required travel lane re-configuration or new alignments, particularly at intersections. The type of facility along each corridor segment, which side of the street they are applied, and how all of the bike lanes and travel lanes align as they change along the corridor was taken into consideration.

Intersection design

As mentioned with other facility design factors, intersection design was considered, particularly at key intersections. Issues like improving vehicular turning movements, improving bicycle turning movements, enhancing bicycle visibility, and improving wayfinding for bicyclists at intersections were all taken into account when developing intersection designs and facility cross sections.

On-street parking

The design strategy for on-street parking was to preserve existing on-street parking wherever possible. However, in select cases on-street parking needs to be removed or re-located to safely accommodate the addition of a bike facility. Where existing on-street parking is impacted, it is noted in the corridor schematics section of this report.

Additionally creating opportunities for on-street parking was also considered. On-street parking was added where it could improve access to businesses or residential areas or safety and comfort for cyclists (to create a buffer between cyclists and travel lanes).

Motor vehicular capacity

Balancing roadway motor vehicular capacity with the need of all street users was also a consideration. Many of Atlanta's streets have excess capacity and present an opportunity to remove a travel lane to accommodate a bike facility. For more on this approach, see the *Lane Reduction and Street Design Strategy* section of this chapter.

Cost

Managing cost was an important component of developing facility designs. Developing projects that work with the existing curb-to-curb width helps keep project costs down and reduces the time it takes to construct facilities. Moving street curbs adds additional cost because of construction requirements, the need to move utilities (above and below ground), or the purchase of right-of-way.

Lane Reduction and Street Design Strategy

In urban settings, street space is a premium and often has to be prioritized based on the needs of people traveling along the street as well as the businesses and residences that live and work along the street. As described and analyzed in the *Connect Atlanta Plan*, many of Atlanta's streets have been designed to accommodate high-speed traffic flow. Some of these street design strategies include one-way streets, reversible lanes, multi-lane streets with large spacing between signals among others. While these design strategies may have improved travel time for people driving, they have often created unsafe conditions for people using the street because of higher vehicle speeds and created "bottle necks" at key intersections due to the rate at which vehicles can travel from one intersection to another.

To improve safety and create space for a wider range of people using the street, *Connect Atlanta* outlined several strategies for travel lane reductions or travel lane re-configurations that can improve safety, mobility and access for the wider range of people driving, walking, biking, and taking public transportation.

One of the most cost-effective strategies is the removal of one or more travel lanes for vehicles. The removal of a travel lane can create street space for bike facilities or sidewalks and improve driving conditions all at the same time. As described and analyzed in the *Connect Atlanta Plan*, many of Atlanta's streets are candidates for lane reductions. For a four-lane street, the *Connect Atlanta Plan* threshold for consideration of a lane reduction from four to three lanes is 25,000 vehicles per day. For a six-lane street, the *Connect Atlanta Plan* threshold for consideration of a lane reduction from six to five lanes is 35,000.

For *Cycle Atlanta: Phase 1.0 Study*, these thresholds were used as a guide to consider street design strategies along the five study corridors. Many other factors were also considered and are outlined in the *Network Design* and *Facility Design* sections of this chapter. As is illustrated in the chapters for each corridor, many of the streets along each corridor are over-built and can have one or more travel lanes removed to accommodate the proposed bikeway facilities.

Beyond simply removing a lane, the *Connect Atlanta Plan* outlined several other street design strategies that can be used as part of a lane reduction or on their own to create space for bike facilities and improve safety for all street users. They include the following:

- **Left turn lanes to restore capacity** – Many of Atlanta's streets are four- or six-lane undivided streets with no medians or left turn lanes. In urban conditions where left turns can be frequent, the lack of dedicated space for left-turning vehicles can actually reduce the vehicular capacity of travel lanes and create unsafe conditions for people driving. Adding a left turn lane can actually improve vehicular capacity for outside travel lanes, which can preserve or improve vehicular capacity along a street. Additionally, the left turn lane can improve turning safety at intersections or midblock.
- **Correct lane imbalances** – Some streets in Atlanta have additional travel lanes for one direction of travel, e.g., one travel lane for north-bound traffic and two travel lanes for south-bound traffic. While these streets may have needed the additional lane in the past, often times these additional lanes are no longer needed and can present an opportunity to create additional space for bikeway facilities. Likewise, some of the imbalances have created confusion or awkward turning movements at intersections. Re-configuring the alignment of lanes, particularly at intersections, can often improve safety for people driving, walking, and biking through intersections. These strategies were used to create space for bikeway facilities and in some cases improve safety conditions for all users.
- **Re-calibrate speeds** – Posted travel speeds and actual travel speeds can often be different because of the street's physical design. Travel lane widths and the presence (or lack) of street elements, such as trees or on-street parking, can influence how fast people feel comfortable driving. Along some of Atlanta's streets, vehicular speeds are high because they are overly wide or have few street elements that would encourage people to slow down. The effect is that streets can be uncomfortable and unsafe for all users, including people walking and biking. Lane narrowing, adding on-street parking, reducing travel lanes, and adding bikeway facilities were all used as strategies to re-calibrate streets to be safer and more comfortable for all users.

In the illustration above from the *Connect Atlanta Plan*, the number of travel lanes is reduced from four lanes to three lanes. With one fewer lane, the extra street space can be used for expansion of sidewalks, street trees, or bikeway facilities. The addition of the center turn lane helps preserve vehicular capacity for the outside travel lanes while also improving safety for vehicles making left turns, either midblock or at intersections. This type of street design strategy was used frequently with this study to create space for bikeway facilities.

CycleAtlanta App

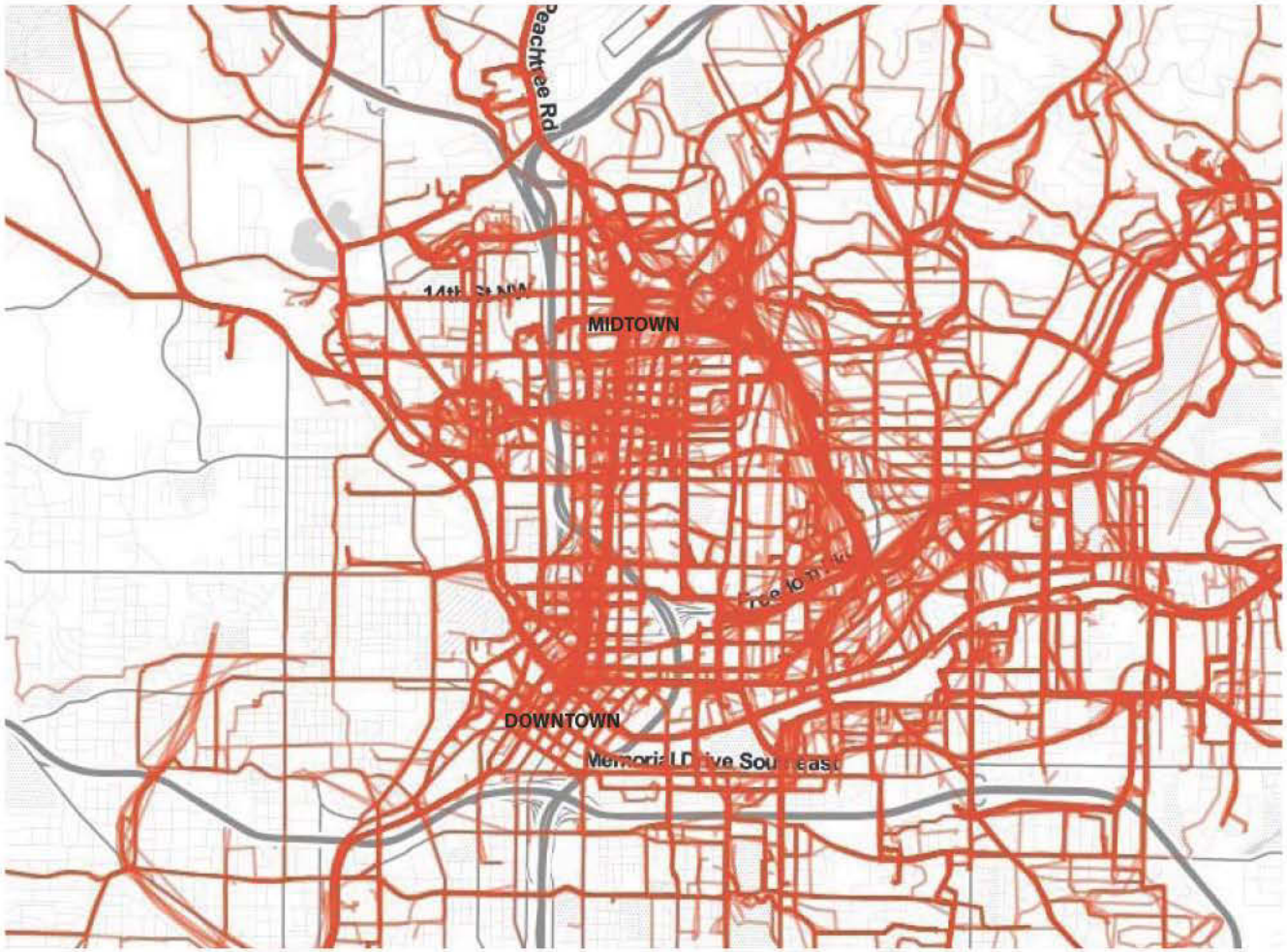
In tandem with this study, the City of Atlanta collaborated with the Georgia Institute of Technology (Georgia Tech), the Atlanta Bicycle Coalition (ABC), and the Atlanta Regional Commission (ARC) to develop an innovative smartphone app that can be used to collect information about the routes people are using to bicycle. The information collected through April 2013 was used to inform the network and facility design for this study. Below is a summary of the app and its development.

Preliminary analysis results are presented in the *Analysis* section of this report. The data collected as part of this effort will be used to track changes in cycling behavior in Atlanta as bikeway facilities are built and the *Cycle Atlanta: Phase 1.0 Study* bikeway network is completed.

What is the CycleAtlanta app?

CycleAtlanta (http://cycleatlanta.org/) is an application for iPhone and Android that collects data about cyclists' routes, origins, destinations, demographics, and features of note in the City of Atlanta. The initial version of the app uses a smartphone's geolocative capabilities to record a cyclist's bike route as she travels to her destination. This allows City of Atlanta transportation planners to see which roads are avoided and which are popular, and use this information to inform future decisions about where infrastructure is needed to create bike-friendly routes through the city. The app also allows cyclists to enter their demographic data, rider type, and ride frequency to further analyze data collected.

In the first major revision of the app, the CycleAtlanta team has added the ability to crowdsource issues and amenities found en route, allowing users to contextualize or elaborate on a specific route. Users 'pin' noteworthy spots along their route, such as amenities (bike parking, bike shops or repair kits, public restrooms, secret passages, and water fountains) or infrastructure conditions that need improvement (pavement issues, traffic signals, enforcement, bike parking or bike lane issues). The goal of the project is to connect citizens to local government through the app, allowing them to participate in the planning process without being inhibited by spatial or temporal limitations in existing participatory planning practices.



The CycleAtlanta app has collected thousands of trips that help illustrate the route preferences of cyclists in the City. Some riders have also provided demographic and other information that helps answer questions like "Who is riding?", "Why are they riding?", and "How can cycling conditions being improved?" All of the data collected is being used to establish base-line metrics. These metrics will be used to analyze changes in cycling rates, attitudes, conditions, and demographics over the next five years as the recommendations from this study are implemented.

How do cyclists use CycleAtlanta app?

Once the app is launched, cyclists simply tap "Start" to beging recording their ride. When the ride is over, they tap "Save" and add additional detail about trip purpose and optional comments. After the data is uploaded, CycleAtlanta displays the map of the ride, showing the route, distance travelled, and average speed. The app user can visit their previous trips details (date, time, distance, speed, CO_2 saved, and calories burned) by looking at "My Trips" in the app. To note an issue or amenity, the cyclist taps "Note that" and selects the feature from a rolling menu. Upon hitting "Save," they are able to enter additional details or upload a picture to the app. By clicking on "My Notes," the previously entered notes can be viewed. The app will allow users to optionally add input personal demographic information, select categories for their cycling frequency and rider type, and provide their email address to receive updates about the study from the City of Atlanta.

Why is CycleAtlanta app needed?

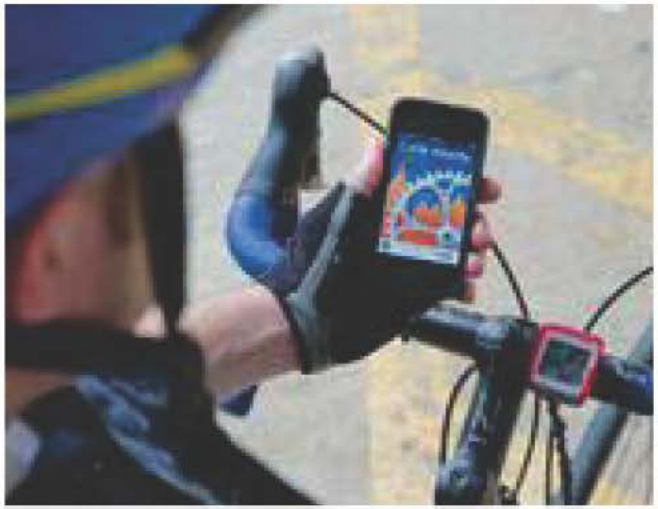
50% of all trips in the U.S. are 3 miles or less, yet only 1.8% of those trips are taken by bicycle[1]. Meanwhile, 35.7% of US adults are obese[2] and the transportation sector accounts for 32% of US greenhouse gases[3]. By increasing the use of bicycle transportation, we may begin to make an impact on the health and environmental issues facing our country.

One of the main reasons citizens do not use the healthier mode of cycling is due to a lack of safe infrastructure—dedicated bicycle routes, roads with bicycle lanes, and other designated bicycle facilities. Cyclists in general prefer riding on dedicated infrastructure[4], and many demographic groups, particularly women, have specific preferences regarding bike infrastructure[5]. The City of Atlanta has a desire to put proper cycling infrastructure in place but needs information from citizens to prioritize improvements in a fiscally-constrained environment. Therefore, the purpose of CycleAtlanta is to involve citizens in bicycle infrastructure improvement decisions in the City of Atlanta, both to maximize the benefit of bike infrastructure funding and to empower citizens to be more active in transportation decisions.

Who is on the CycleAtlanta app team?

Dr. Kari Edison Watkins of Civil and Environmental Engineering and Dr. Christopher LeDantec of Digital Media, both Assistant Professors at Georgia Tech, are leading the project. Their team of students includes Mariam Asad, Anhong Guo, Aditi Misra, Alex Poznanski, and Caleb Southern. CycleAtlanta is a joint project between the City of Atlanta Department of Planning & Community Development, Georgia Institute of Technology, Atlanta Bicycle Coalition, and Atlanta Regional Commission (ARC). It is funded through a contribution from the Atlanta Bicycle Coalition and the Atlanta Regional Commission's Livable Centers Initiative planning program. Additional support is provided by the GVU Center and the Institute for People and Technology at Georgia Tech.

CycleAtlanta is based on the open-source CycleTracks application originally developed for San Francisco, CA, and adopted in Austin, TX and Charlottesville, NC[6]. The Cycle Atlanta project team has already contributed substantial revisions to the code base and plans to continue to do so throughout the project.



CycleAtlanta app users can use their smartphone to track their cycling trips.

In addition to tracking route information and other information like trip purpose, version two of the app has additional features like making notes about conditions that need to be improved or cycling-supportive community features, such as bike shops.

1. League of American Bicyclists, 2010, http://www.bikeleague.org/resources/reports/pdfs/nhts09.pdf
2. Centers for Disease Control and Prevention, 2012, http://www.cdc.gov/nchs/data/databriefs/db82.pdf
3. International Transport Forum, 2010, http://www.internationaltransportforum.org/jtrc/environment/CO2/USA.pdf
4. Tilahun, N. Y., D. M. Levinson, and K. J. Krizek. Trails, lanes, or traffic: Valuing bicycle facilities with an adaptive stated preference survey. Transportation Research Part A: Policy and Practice, Vol. 41, May 2007, pp. 287–301.
5. Krizek, K. J., P. J. Johnson, and N. Tilahun. Gender Differences in Bicycling Behavior and Facility Preferences. Research on Women's Issues in Transportation, Transportation Research Board of the National Academies. 2004.
6. http://www.sfcta.org/content/category/12/97/483/

CycleAtlanta App Data Analysis

One of the goals for this study is to develop baseline data for cycling rates, activities, and users to track the impact of investment in bicycle infrastructure. The CycleAtlanta App was developed to help with this effort. Since its initial launch, it has collected information about thousands of trips and rider information, which app users could elect whether to provide.

The information in the subsequent sections is a summary of findings developed by Alex Poznanski, one of the CycleAtlanta App team members. The findings are part of his thesis at the Georgia Institute of Technology.

The charts compare CycleAtlanta app data (CATL) to external data sets including the National Household Travel Survey (NHTS) and the 2012 Atlanta Bike to Work Challenge (BTW). Each chart notes the sample size for each data set used for analysis.

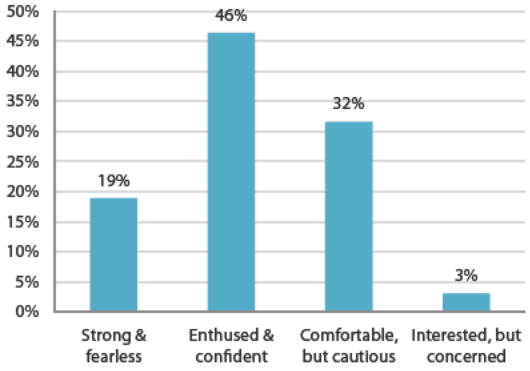
For more detailed analysis, see Alex Poznaski's thesis.

> Poznanski, Alex J. "Analyzing Demographic and Geographic Characteristics of "Cycle Atlanta" Smartphone Application Users." Thesis. Georgia Institute of Technology, 2013. Print.

What type of rider are app users?

Of the app users that provide information about the type of cyclist they consider themselves, the majority of themselves as "enthused and confident" or "comfortable but cautious." Another goal for this study is to increase the cycling rates for those that consider themselves "interested but concerned." More protected facilities and enhanced intersections can help increase the cycling rates for this portion of the community.

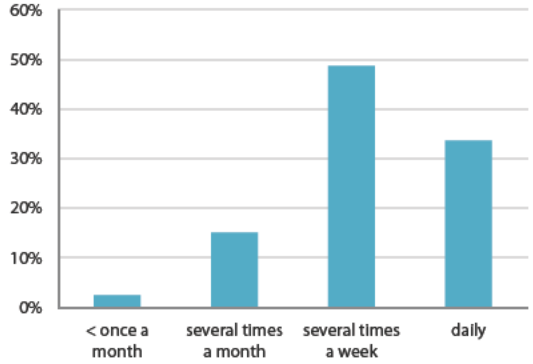
Cyclist Type



How often are app users riding?

The majority of CycleAtlanta app users ride often (several times a week or daily). One of the goals for this study is to increase the frequency of cycling in Atlanta to be a part of daily life. A more complete and connected cycling network in Atlanta can help make cycling a part of every day trips and recreation.

Cycling Frequency



Who is riding?

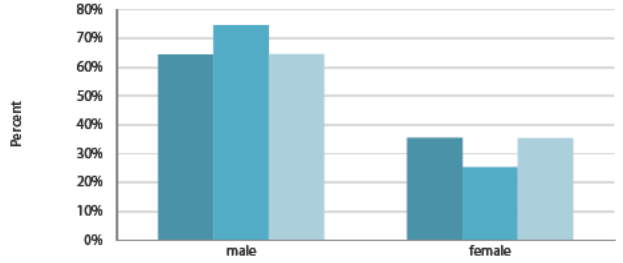
Cyclists in Atlanta today are predominately young men. However, surveys and the CycleAtlanta app data shows that people of all ages, races, and genders are riding. A major goal for this study and city-wide cycling is to increase the cycling rate for these minority groups. The goal is to make cycling a transportation option that is safe and convenient for anyone in the community, regardless of age, gender, or ethnicity.

NHTS - National Household Travel Survey

CATL - Cycle Atlanta

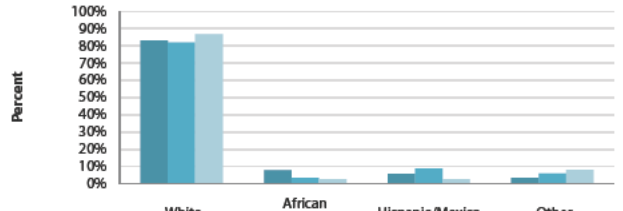
BTW - Bike to Work Challenge

Cyclist Gender



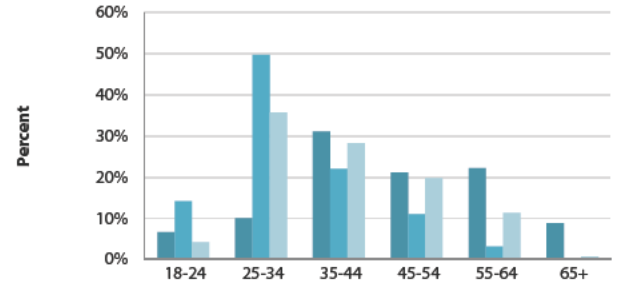
	male	female
NHTS (n=90)	64%	36%
CATL (n=311)	75%	25%
BTW (n=282)	65%	35%

Cyclist Ethnicity



	White	African American	Hispanic/Mexican/Latino	Other
NHTS (n=90)	83%	8%	6%	3%
CATL (n=295)	82%	3%	9%	6%
BTW (n=274)	87%	3%	3%	8%

Cyclist Age



	18-24	25-34	35-44	45-54	55-64	65+
NHTS (n=90)	7%	10%	31%	21%	22%	9%
CATL (n=318)	14%	50%	22%	11%	3%	0%
BTW (n=283)	4%	36%	28%	20%	11%	1%

Community Involvement

Community involvement for this study was a collaborative effort between the design team, City of Atlanta officials, stakeholders, and the public. The process was used to establish project goals, develop and refine concepts, and collect feedback and data as the study was developed. Input was collected through meetings with the public and stakeholders, as well as the CycleAtlanta app, an innovative smartphone application developed for this project to collect cycling data from users in real time. A summary of the community input opportunities used to develop this study are discussed in more detail below.

Handlebar Committee

The Handlebar Committee served as the technical review committee for this study. The group included city transportation officials, advocacy groups, university officials, and business owners, as well as transit and transportation partners. The Handlebar Committee met three times during the study including a project kick-off meeting in the Fall of 2012 (to establish the goals for the project), during the charrette (to review work in progress), and in the Spring of 2013 (to review the final plan).

Charrette

The *Cycle Atlanta: Phase 1.0 Study* charrette was held over a four-day period from Monday, February 11 to Thursday, February 14. During the charrette, the design team used a series of feedback loops between stakeholders, the public, and representatives from the City of Atlanta to propose, test, and refine recommendations for each study corridor. In particular, the design team:

- Reviewed and analyzed existing conditions along the study corridors
- Collected input from the key stakeholders and the public
- Developed initial concepts for each corridor
- Tested the concepts with field visits and assessments
- Refined design concepts for each corridor
- Developed a working list of treatments for each corridor based on input received

Stakeholder Meetings

Stakeholder meetings were conducted during the charrette and were conducted on a rolling basis over the four days. The stakeholder interviews allowed the design team to have one-on-one discussions with key stakeholders that have technical expertise or intimate knowledge about particular project corridors or projects along or near the study area that could impact the development of this study. Stakeholders included non-profits, such as the PATH Foundation, advocacy groups, such as the Atlanta Bicycle Coalition, business representatives, such as Coca-Cola, university leaders, such as campus planners from Georgia State University, as well as other city departments, such as the Department of Watershed Management.

Public Meeting

One public meeting was held at the Invest Atlanta office on Tuesday, February 12, 2013, which was in coordination with the second day of the charrette. Over 20 attendees received a presentation about the project and divided into smaller groups to provide detailed feedback on "work in progress" for the charrette. The input from the meeting was used to refine the proposed corridor alignments and facility types along each of the five corridors.

CycleAtlanta App

As of August 2013, the CycleAtlanta app had collected over 12,000 trips and over 1,000 users. The app data was used on a continuous basis through the project to identify routes cyclists are currently using, identify the types of routes cyclists are selected based on the self-assigned skill level, or routes based on other demographics, such as age and gender.

Stakeholders met one-on-one with the design team and city officials during the charrette to discuss project goals and proposed concepts in detail.

The public meeting provided an opportunity for the community to learn about the project, share their desires for better cycling conditions in Atlanta, and help the design team develop the plan recommendations.

Work by the design team during the charrette included field work to measure and test design concepts.

Corridor A. Brookwood - Midtown - Downtown - West End

Peachtree Rd. – W Peachtree St. (US 19/SR 9) – Peachtree St. – Whitehall St. – Murphy Ave.

Overview

Corridor A is the longest of the five *Cycle Atlanta: Phase 1.0 Study* corridors and it also the most significant in terms of connections. The corridor connects to the most MARTA stations (8 of 24 Atlanta stations) of the five corridors, the most destinations of all of the corridors, and to all four of the other *Cycle Atlanta: Phase 1.0 Study* corridors. Corridor A, or the "Peachtree Corridor," is the "spine" of the cycling network in Atlanta.

The CycleAtlanta smartphone app data confirms this statement. Besides the Eastside Trail along the Atlanta BeltLine, the segment of Peachtree Street from Amtrak Station to the Five Points MARTA station appears to have recorded the greatest volume of trips. From the route data, it appears many bicyclists are using Peachtree Street either as a portion of their route navigating Midtown or Downtown or as their trip destination or origin along Peachtree Street. Either way, Peachtree Street is a significant bike route today even without dedicated bike facilities. With growth in cycling rates anticipated and with the City of Atlanta pursuing the launch of a city-wide bike share system, this study looked at ways to accommodate a wider range of bicyclists along the street.

In particular, the segment of Peachtree Street from the bridge over Interstate 85 to Linden Avenue was given additional focus. This focus was due to the significance of this route in terms of context, connectedness, and complexity.

For this stretch of Peachtree Street, two bikeway scenarios were developed. One scenario includes keeping the current lane configuration and applying shared lane markings to the outside travel lanes. This treatment would be the least costly to implement and would raise awareness of cyclists. However, it does not provide a dedicated space for bicyclists, which is necessary to attract a wider range of cyclists.

The second scenario includes reducing the number of travel lanes to create space for bike lanes. This treatment would be more costly to implement and could impact vehicular traffic patterns. However, it would also provide dedicated space for cyclists. The character of the street would likely change too to one that is more comfortable to walk and bike along because of the anticipated reduction in vehicle speeds and volumes.

Through the planning process for this study, the bike lane option was determined to be the preferred option. Before a final treatment is selected, additional discussion and analysis should focus on what the impact in Midtown might do to the image and function of Peacthree Street by adding bike lanes.

Network Design

Corridor A contains the greatest destination connectivity. To accommodate this consideration and to give cyclists a variety of route options, the alignment often includes parallel routes with a variety of bikeway types.

From the north, Peachtree Road connects Buckhead neighborhoods and Piedmont Hospital to bikeway facilities in Midtown. Once in Midtown, cyclists will have several route options depending on their destination, skill level, and direction of travel.

West Peachtree Street, Peachtree Street, Juniper Street, and Piedmont Avenue will provide north-south options through Midtown and provide a connection to Downtown. These streets also provide connections to east-west corridor routes along 8th/10th/12th Streets and Joseph E. Boone/Ralph McGill Boulevard.

In Downtown, the primary north-south facilities will diverge off of Peachtree Street to avoid the Atlanta Streetcar. One route option will be a cycle track along Peachtree Center Avenue/Gilmer Street/Courtland Street/Washington Street. This route option will provide a continuous, protected facility from Peachtree Street and Ralph McGill Boulevard to Memorial Drive.

The other primary route option will be a cycle track along John Portman Boulevard, Centennial Olympic Park Drive, and Walker Street. This route option will provide a continuous, protected facility from Peachtree Street and John Portman Boulevard to Castleberry Hill and Peters Street.

From the southern end of the corridor, people will travel along Lee Street/ Peters Street or Murphy Avenue/Whitehall Street. This stretch of the corridor is split by active rail lines and there are only a few areas one can cross from one side to the other. To accommodate people on both sides of the rail lines and to provide the option of using a protected facility or dedicated bike lane, both alignments have been developed.

Along Peters Street and Lee Street, traffic volumes and right-of-way allow for a multi-use path to be installed. This facility will provide a protected facility connection from the Atlanta BeltLine to West End and areas of Downtown. Along Murphy Avenue and Whitehall Street, street right-of-way widths and traffic volumes are more accommodating for bike lanes.

Facility Design

Corridor A has the greatest length of protected bike facilities of all the corridors. This is the result of the longer corridor length and wider streets with excess lane capacity. If bike lanes are selected as the preferred facility type along Peachtree Street in Midtown, bicyclists will be able to ride their bike in a bike lane or protected facility, such as a cycle track or multi-use path from Buckhead to West End.

Because many of the route alignments run along major streets and they connect to other major streets, intersection designs will be more important and complex. The additional focus on intersection design will improve safety for all roadway users. Several intersection concept designs have been developed with this project, including the area around the West End MARTA station, Centennial Olympic Park and the Peachtree Street- Ralph McGill Boulevard-Peachtree Center Avenue intersection. As projects along this corridor are implemented, design professionals should prioritize safe intersection design. This is particularly true for the facilities in Midtown and Downtown.

Corridor A Core and Alternative Routes

Corridor Length

7.1 miles
47 minutes by bike

Major Destinations

Atlanta BeltLine
Piedmont Hospital
Savannah College of Art and Design
High Museum of Art
Midtown Mile
Fox Theatre
Georgia Institute of Technology
Emory University Hospital Midtown
Peachtree Center
Woodruff Park
Georgia State University
Underground Atlanta
Fulton County Government Center
Georgia State Capital
City of Atlanta City Hall
Centennial Olympic Park
Georgia World Congress Center
Georgia Dome/Philips Arena/CNN Center
Atlanta University Center
West End Business District

MARTA Stations

Arts Center
Midtown
North Avenue
Civic Center
Peachtree Center
Five Points
Garnett
West End

Neighborhoods

Colonial Homes
Ardmore
Brookwood Hills
Midtown
Ansley Park
Downtown
Castleberry Hill
Mechanicsville
Pittsburgh
Adair Park
The Villages at Castleberry Hill
Atlanta University Center
Westend
Oakland City

NPU

C
E
M
T
V

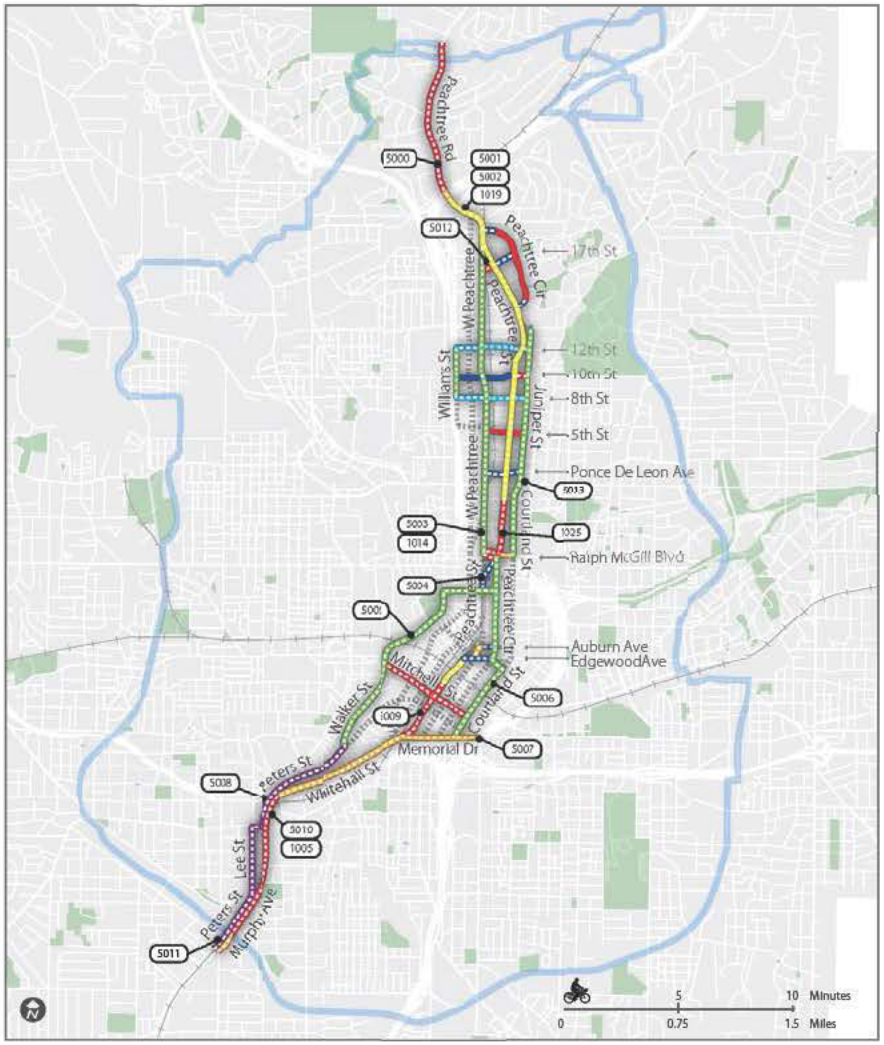
Council Districts

2
4
5
6
7
8
12

Relevant Plans

Atlanta BeltLine Subarea 7 Master Plan
Atlanta BeltLine Subarea 1 Master Plan
Atlanta BeltLine Subarea 2 Master Plan
Brookwood Alliance Master Plan
Greenprint Midtown
The Atlanta Connector Project
Imagine Downtown: ENCORE LCI
West End LCI

Corridor A Network Design Map



Corridor A Projects

The projects listed in the table below are the projects currently programmed for construction along the corridor as well as new projects proposed as part of the *Cycle Atlanta: Phase 1.0 Study*. Facility type, the street that the project applies to, a description of the start and end points for the projects and a summary cost estimate are provided. Additional project cost information is provided in the Appendix for each project.

ID	Facility Type	Street	To	From	Cross Section(s)	Cost
1005	Bike Lane	Murphy Avenue	Ralph David Abernathy Boulevard	Sylvan Road		n/a
1014	Protected Cycle Track	West Peachtree Street	12th Street	North Avenue		n/a
1019	Shared Lane Marking	Peachtree Street	West Peachtree Street	North Avenue		n/a
1025	Bike Lane	Peachtree Street	North Avenue	Ivan Allen Jr Boulevard		n/a
5000	Bike Lane	Peachtree Road	Colonial Homes Drive	Interstate 85	A1, A2, A3, A4	$229,841
5001	Bike Lane	Peachtree Street	Interstate 85	Linden Avenue	A5, A6b, A7b, A8b, A13b, A14b, A16b, A19b, A21b	$478,072
5002	Shared Lane Marking	Peachtree Street	Interstate 85	Linden Avenue	A5, A6a, A7a, A8a, A13a, A14a, A16a, A19a, A21a	$98,221
5003	Cycle Track	West Peachtree Street	Peachtree Street	Porter Place	A12, A15, A17, A18, A20, A22, A24, A26, A27	$280,876
5004	Shared Lane Markings	Peachtree Street	Porter Place	John Portman Boulevard	A28, A48	$4,899
5005	Cycle Track	Centennial Olympic Park Drive	Marietta Street	Nelson Street	A43, A44, A45, A46	$264,858
5006	Cycle Track	Gilmer Street-Courtland Street-Washington Street	Peachtree Center Avenue	Memorial Drive	A29, A30	$286,312
5007	Buffered Bike Lane	Memorial Drive	Peachtree Street	Fraser Avenue	A32	$142,496
5008	Multi-Use Path	Peters Street-Whitehall Street	Walker Street	Ralph David Abernathy Boulevard	A34, A35, A37	$885,364
5009	Bike Lane	Peachtree Street	Mitchell Street	Memorial Drive	A31	$84,859
5010	Bike Lane	Whitehall Street-Murphy Avenue	Peachtree Street	Sylvan Road	A33, A36, A39, A40, A42	$241,995
5011	Multi-Use Path	Lee Street	Sylvan Road	Ralph David Abernathy Boulevard	A38, A41	$990,568
5012	Bike Lane/Shared Lane Marking	17th Street	West Peachtree Street	Peachtree Circle	A9, A10, A11	$17,117
5013	Cycle Track	Courtland Street	Ponce de Leon Avenue	Ralph McGill Boulevard	A47	$93,590

Notes

1. 1000 series: Facilities to be built in 2013
2. 2000 series: Facilities to be built in 2014
3. 3000 series: Facilities to be built in 2015
4. 4000 series: Unfunded high-priority projects we hope to fund by 2016
5. 5000 series: Facilities developed as part of the *Cycle Atlanta: Phase 1.0 Study*; 5000 - 5019 is for Corridor A projects, 5020 - 5039 is for Corridor B projects, 5040-5059 is for Corridor C projects, 5060 - 5079 is for Corridor D projects, and 5080 - 5099 is for Corridor E projects
6. Cost estimates include an estimate of probable cost for construction, design cost (25% of construction cost), and contingency cost (20% of construction costs). Construction costs can include re-striping costs, signal improvements, new pavement markings, and multi-use path construction. Construction costs do not include resurfacing costs. Cost estimates for 1000 to 4000 series projects are not provided because they have already been funded, are in the process of being designed, or are in the process of being constructed.

Corridor A Design Schematics

The cross sections, plan concepts, and accompanying notes provide a description for the design of the proposed facilities along the corridor. A typical cross section has been developed for every segment of the corridor where a facility is proposed as part of the *Cycle Atlanta: Phase 1.0 Study* and where projects have been programmed but the facility design has not been finalized. Cross sections were not developed for corridor segments that already have a facility, where the facility has already been programmed for construction or where the facility has already been designed through another project or planning effort.

The typical cross sections and plan concepts form the basis for the cost estimates presented on the previous page. Each project consists of one or more cross section or plan concept segments. The design schematics were used to provide details about facility design for projects, particularly where cross sections change along the corridor or intersection design is more complex.

The legend below provides a summary of the different symbols and line types used to describe existing conditions or proposed features along the corridor.

Design Schematics Legend

EXISTING BIKE FACILITIES

- Shared Lane Marking
- Bike Lane
- Multi-Use Path

PROPOSED BIKE FACILITIES

- Shared Lane Marking
- Bike Lane
- Multi-Use Path
- Bike Boulevard
- Buffered Bike Lane
- Protected Cycle Track
- Alternative Facility Options
- Raised Cycle Track

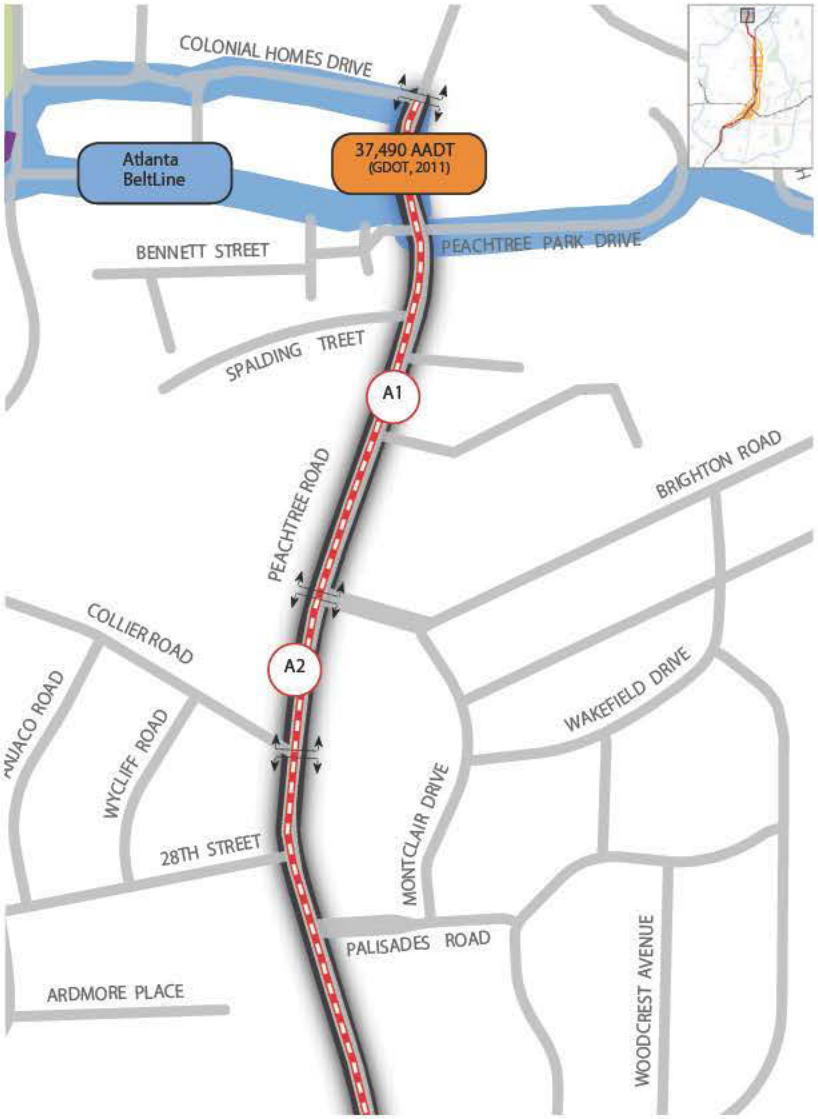
STUDY FOCUS FEATURES

- Core Study Corridor
- Alternative Study Corridor
- Atlanta BeltLine Corridor
- MARTA Rail Station

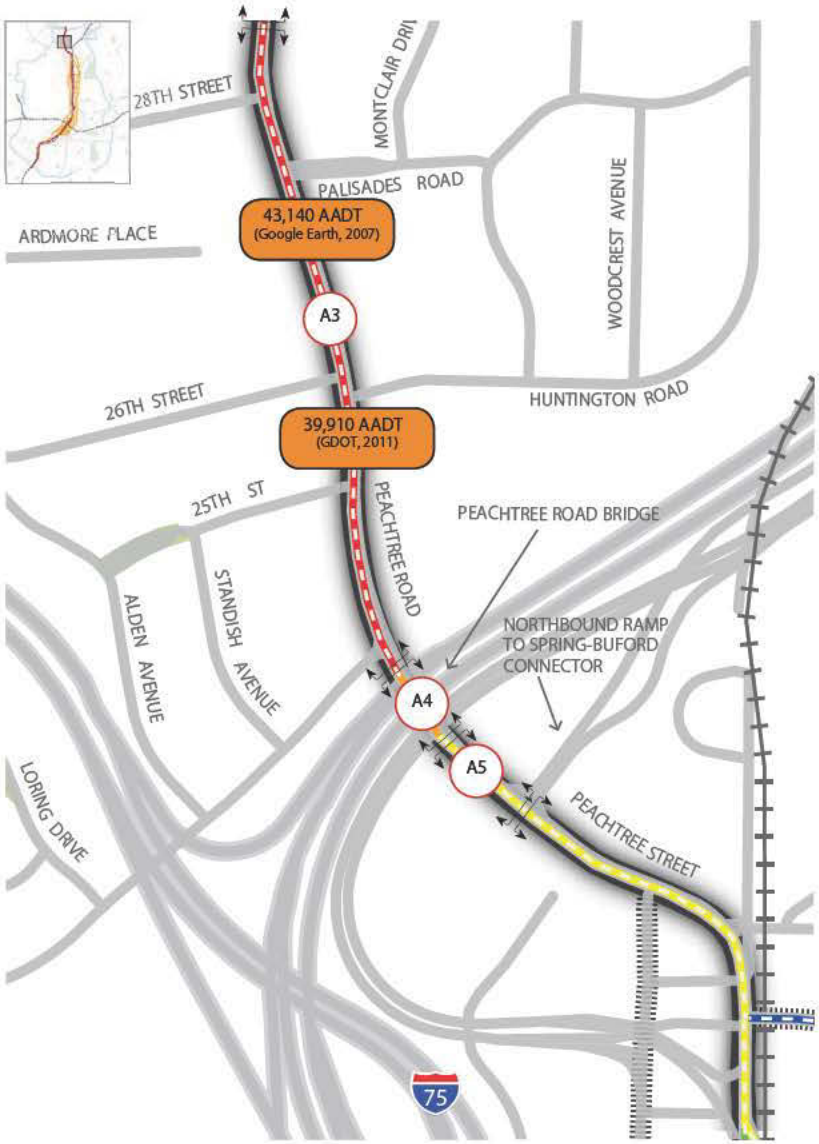
ANNOTATION SYMBOLS

- Cross Section Application Location
- Map Annotation
- Cross Section Segment To/From Point
- Corridor Connection to Atlanta BeltLine
- Annual Average Daily Traffic

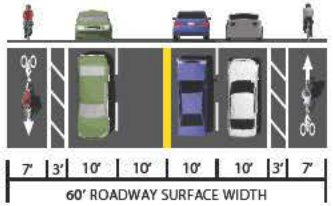
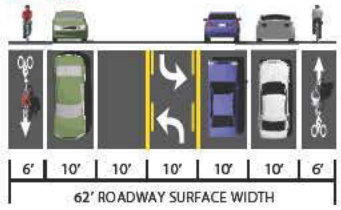
Cross Section ID	Cross Section	Street	From	To	Existing Travel Lanes	Proposed Travel Lanes	Notes
A1		Peachtree Road	Colonial Homes Drive	Brighton Road	6	5	4 travel lanes; center turn lane/ medianettes
A2		Peachtree Road	Brighton Road	Collier Road	6	5	4 travel lanes; center turn lane/ medianettes



5.0 Minutes — 2.5
0.75 Miles — 0.375 — 0

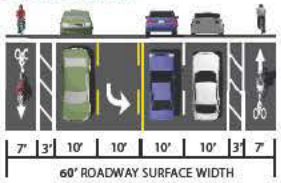


Cross Section ID	Cross Section	Street	From	To	Existing Travel Lanes	Proposed Travel Lanes	Notes
A3	BIKE LANES 	Peachtree Road	Collier Road	Peachtree Road Bridge	6	5	4 travel lanes; center turn lane
A4	BUFFERED BIKE LANES 	Peachtree Road	Peachtree Road Bridge	Peachtree Road Bridge	6	5	4 travel lanes; center turn lane
A5	BUFFERED BIKE LANES 	Peachtree Street	Peachtree Road Bridge	Northbound ramp to Spring-Buford Connector	6	5	4 travel lanes; center turn lane

Cross Section ID	Cross Section	Street	From	To	Existing Travel Lanes	Proposed Travel Lanes	Notes
A6A	BUFFERED BIKE LANE / SHARED LANE MARKINGS 	Peachtree Street	Northbound ramp to Spring-Buford Connector	Spring Street	6	5	5 travel lanes
A6B	BUFFERED BIKE LANE 	Peachtree Street	Northbound ramp to Spring-Buford Connector	Spring Street	6	4	4 travel lanes Due to high frequency of right turns on to northbound ramp to Spring-Buford Connector, outside north bound land may need to be right turn only. Alternatively, bike lane and buffer may need to be re-configured to accommodate a dedicated right turn only lane. Additional study should be give to this intersection.
A7A	SHARED LANE MARKINGS 	Peachtree Street	Spring Street	Peachtree Circle	6	6	Maintain existing lanes
A7B	BIKE LANES 	Peachtree Street	Spring Street	Peachtree Circle	6	5	4 travel lanes; center turn lane Additional study is needed for intersection of Peachtree Circle and Peachtree Street. Southbound cyclists along Peachtree Street will need help making left turn on to Peachtree Circle. A potential treatment is two-stage turn queue boxes for cyclists at the intersection.

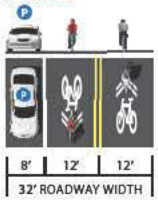
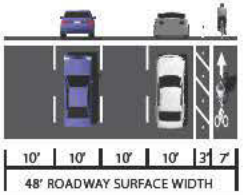
5.0 Minutes — 2.5 — 0

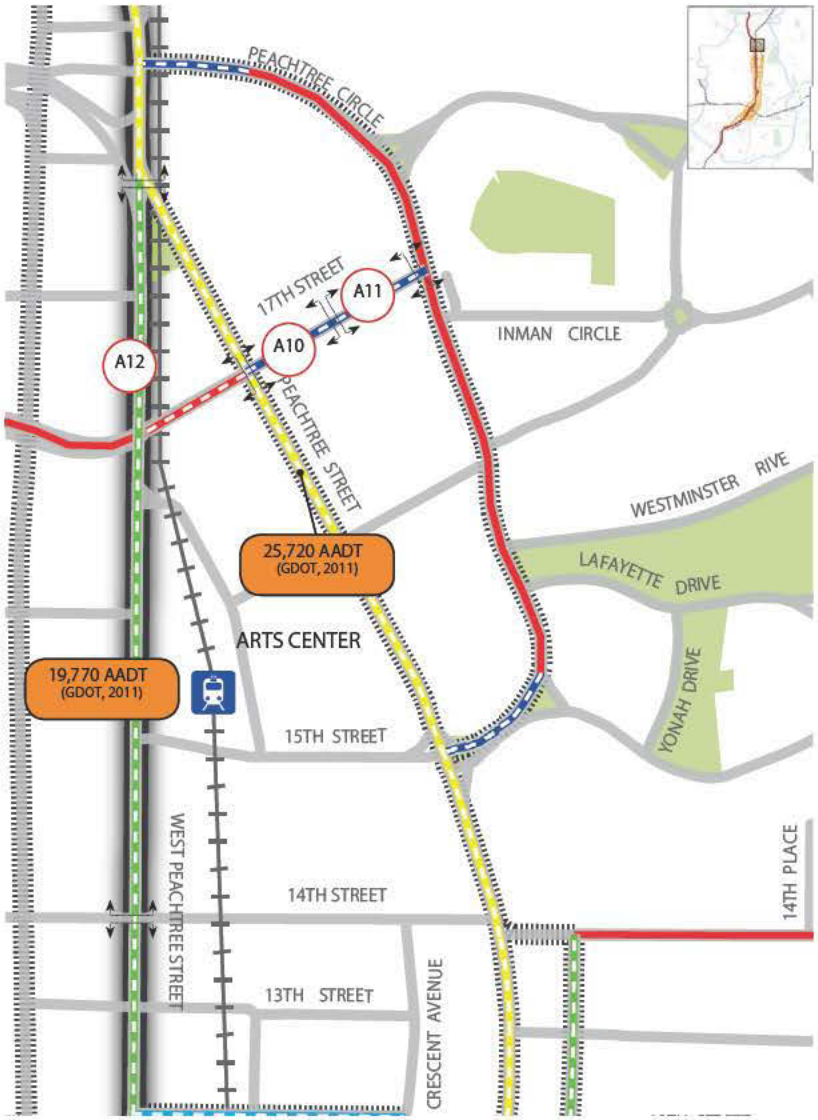
0.75 Miles — 0.375

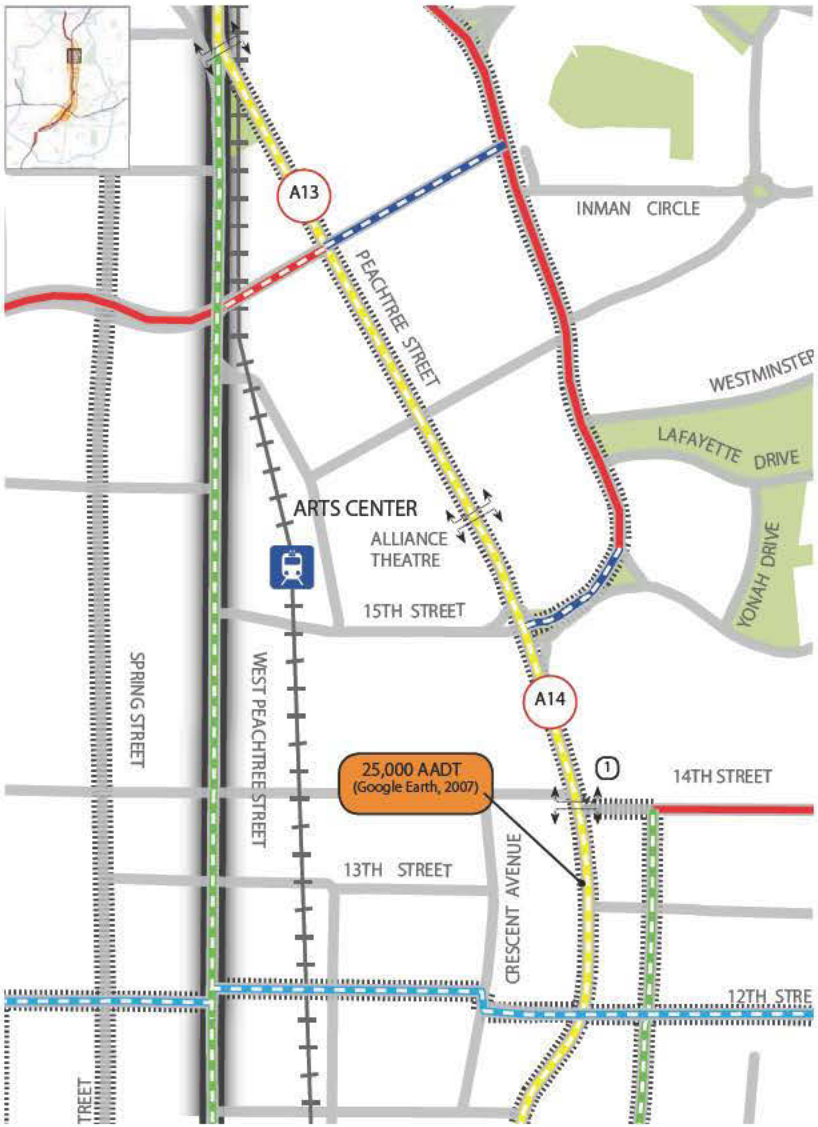
Cross Section ID	Cross Section	Street	From	To	Existing Travel Lanes	Proposed Travel Lanes	Notes
A8A	SHARED LANE MARKINGS 	Peachtree Street	Peachtree Circle	West Peachtree Street	6	6	5 travel lanes; turn lane
A8B	BUFFERED BIKE LANE 	Peachtree Street	Peachtree Circle	West Peachtree Street	6	4	3 travel lanes; turn lane Remove existing median
A9	BIKE LANES 	17th Street	West Peachtree Street	Peachtree Street	3	2	2 travel lanes As required in agreement between the City of Atlanta and Ansley Park Civic Association, 17th Street between Peachtree Street and West Peachtree Street should be re-striped to two travel lanes. Doing so creates roadway space for bike lanes. Project should be coordinated with the Ansley Park Civic Associations. As properties develop along either side of this cross section, there may be an opportunity to increase the width of the roadway from curb to curb. The increased width could expand travel lane and bike facility configuration options.

Additional Notes

1	The segment from the end of the bike lanes on Peachtree Circle to Peachtree Street should have shared lane markings added. These can be added as a spot treatment or applied when Peachtree Circle is re-striped.
2	The segment from the end of the bike lanes on Peachtree Circle to Peachtree Street should have shared lane markings added. These can be added as a spot treatment or applied when Peachtree Circle is re-striped. Additionally if the dedicated left turn lane is for vehicles making left from Peachtree Circle to southbound Peachtree Street, space can be created for bike lanes on Peachtree Circle to extend all the way to Peachtree Street.
3	15th Street could be a connection to the MARTA station from West Peachtree Street or Peachtree Street. If designated as a bicycle connection street, shared lane markings or wayfinding signage should be used to help cyclists navigate to the primary bicycle station entrance from Arts Center Way.
4	A southbound bicycle connection is needed from 17th Street to Arts Center Way to improve bicycle access to the Arts Center MARTA station. The sidewalk along the east side of West Peachtree Street from 17th Street to Arts Center Way could be re-purposed as a raised cycle track or multi-use path to create this bicycle connection.

Cross Section ID	Cross Section	Street	From	To	Existing Trravel Lanes	Proposed Travel Lanes	Notes
A10	SHARED LANE MARKINGS 	17th Street	Peachtree Street	End of back of commercial buildings	2	2	
A11	SHARED LANE MARKINGS 	17th Street	Back of commercial buildings	Peachtree Circle	2	2	
A12	CYCLE TRACK 	West Peachtree Street	Peachtree Street	14th Street	5	3	3 travel lanes; on-street parking



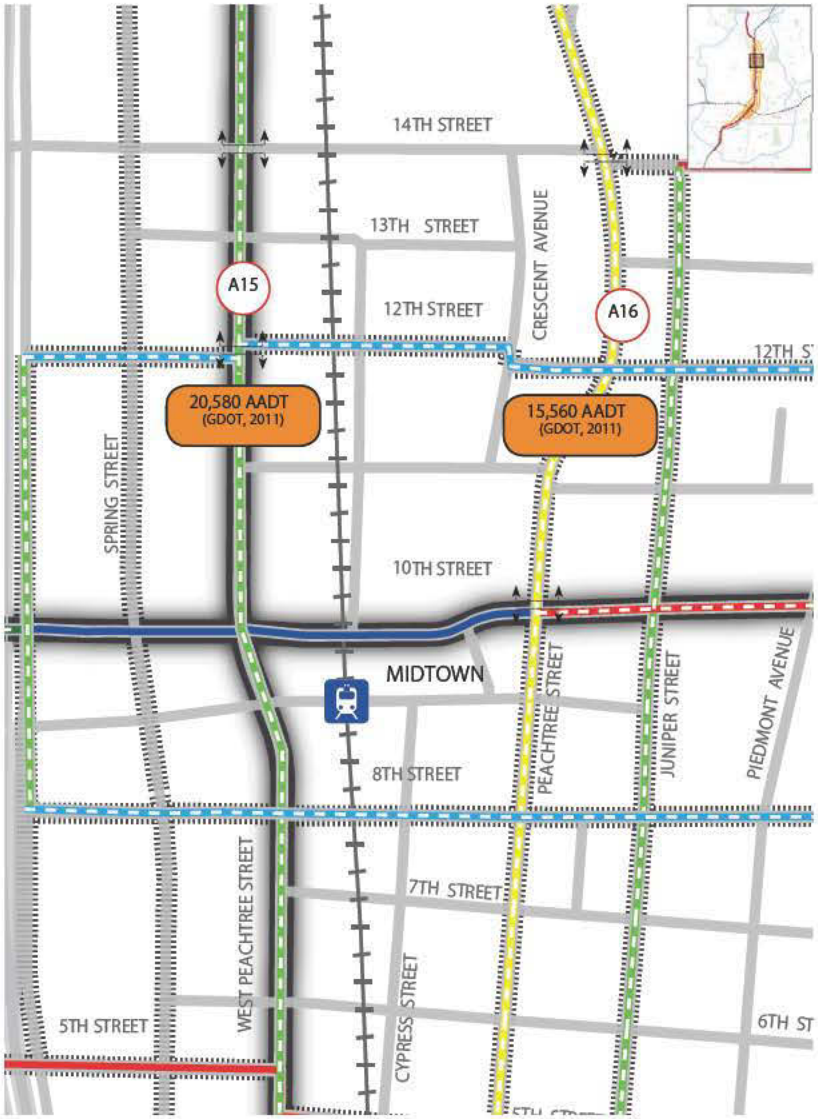


Cross Section ID	Cross Section	Street	From	To	Existing Travel Lanes	Proposed Travel Lanes	Notes
A13A	SHARED LANE MARKINGS 	Peachtree Street	West Peachtree Street	Alliance Theatre	4	4	0
A13B	BIKE LANES 	Peachtree Street	West Peachtree Street	Alliance Theatre	4	3	2 travel lanes; center turn lane
A14A	SHARED LANE MARKINGS 	Peachtree Street	Alliance Theatre	14th Street	5	5	4 travel lanes; center turn lane
A14B	BUFFERED BIKE LANES 	Peachtree Street	Alliance Theatre	14th Street	5	3	2 travel lanes; center turn lane Preserve medians

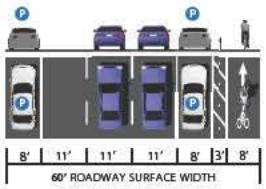
Additional Notes

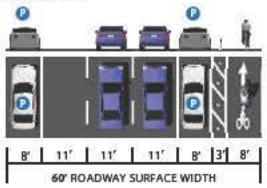
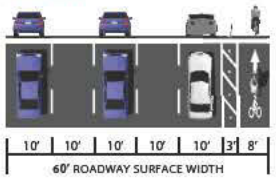
1	The 14th Street and Peachtree Street intersection needs additional focus. Intersection improvements should be made to help southbound cyclists along Peachtree Street make a left turn onto 14th Street. This improved left turn for cyclists will enhance bicycle connectivity between bicycle facilities on Peachtree Street, 14th Street, and Juniper Street.

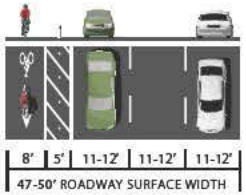
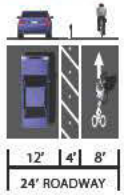
Cross Section ID	Cross Section	Street	From	To	Existing Travel Lanes	Proposed Travel Lanes	Notes
A15	CYCLE TRACK 	West Peachtree Street	14th Street	12th Street	5	3	3 travel lanes; on-street parking
A16A	SHARED LANE MARKINGS 	Peachtree Street	14th Street	10th Street	5	5	4 travel lanes; center turn lane
A16B	BUFFERED BIKE LANES 	Peachtree Street	14th Street	10th Street	5	3	2 travel lanes; center turn lane



5.0 Minutes — 2.5
0.75 Miles — 0.375 — 0

Cross Section ID	Cross Section	Street	From	To	Existing Travel Lanes	Proposed Travel Lanes	Notes
A17	CYCLE TRACK 	West Peachtree Street	12th Street	8th Street	4	3	3 travel lanes Between 8th Street and 10th Street, remove dedicated right turn lane and convert this lane to cycle track. The far right travel lane becomes a straight or right turn lane. Between Peachtree Place and 10th Street, convert far left lane to left turn only lane.
A18	CYCLE TRACK 	West Peachtree Street	8th Street	5th Street	4	3	3 travel lanes At intersections, preserve curb extensions with street trees, drop parking lane, and provide bike lane. Additionally on-street parking adjacent to cycle track may be dropped at intersections to accommodate right turn only lane. Remove curb extensions with street trees between blocks to provide a continues cycle track.
A19a	SHARED LANE MARKINGS 	Peachtree Street	10th Street	North Avenue	4	4	4 travel lanes
A19b	BIKE LANES 	Peachtree Street	10th Street	North Avenue	4	3	2 travel lanes; center turn lane

Cross Section ID	Cross Section	Street	From	To	Existing Travel Lanes	Proposed Travel Lanes	Notes
A20	CYCLE TRACK 	West Peachtree Street	5th Street	North Avenue	4	3	3 travel lanes At intersections, preserve curb extensions with street trees, drop parking lane, and provide bike lane. Remove curb extensions with street trees between blocks to provide a continues cycle track.
A21a	SHARED LANE MARKINGS 	Peachtree Street	North Avenue	Linden Avenue	5	5	5 travel lanes
A21b	BIKE LANES 	Peachtree Street	North Avenue	Linden Avenue	5	4	2 travel lanes; center turn lane; right turn only lane traveling northbound
A22	CYCLE TRACK 	West Peachtree Street	North Avenue	Baltimore Place	6	5	5 travel lanes

Cross Section ID	Cross Section	Street	From	To	Existing Travel Lanes	Proposed Travel Lanes	Notes
A47	CYCLE TRACK 	Courtland Street	Ponce de Leon Avenue	Ralph McGill Boulevard	5	4	4 travel lanes Along western side of roadway and just south of the intersection of Renaissance Place and Courtland Street, add a sidewalk where it currently does not exist. The same application should be used along the western side of the roadway and just north of the intersection of Curier Street and Courtland Street. To accommodate this sidewalk addition with the proposed cross section, drop the buffer adjacent to the bike lane and shift the bike lane so that it is adjacent the travel lane.
A23	BIKE LANES 	Peachtree Street	Linden Avenue	Pine Street	6	4	4 travel lanes This cross section starts midblock between North Avenue and Linden Avenue.
A24	CYCLE TRACK 	West Peachtree Street	Baltimore Place	Pine Street	2	1	1 travel lane
A25	BIKE LANES 	Peachtree Street	Pine Street	Ivan Allen Jr Boulevard	6	5	4 travel lanes; center turn lane Across the bridge, the center turn lane is removed and a buffer is added between the outside travel lanes and the bike lane.

Additional Notes

1	Long-term, Piedmont Avenue could be re-striped to include a buffered bike lane or cycle track. This lane re-configuration could extend from Ralph McGill Boulevard to 14th Street. A dedicated bicycle facility along Piedmont Avenue would provide a northbound alternative to Juniper Street/Courtland Street and Peachtree Street.

Cross Section ID	Cross Section	Street	From	To	Existing Travel Lanes	Proposed Travel Lanes	Notes
A26	SHARED LANE MARKINGS 	West Peachtree Street	Ivan Allen Jr Boulevard	Porter Place	4	3	3 travel lanes Add directional shared lane markings for inside southbound travel lane for wayfinding purposes. The intent with these shared lane markings is to help cyclists make the connection between Porter Place, West Peachtree Street, and Ivan Allen Jr. Boulevard. Add additional wayfinding signs at West Peachtree Street and Ivan Allen Jr. Boulevard to help cyclists understand route options.
A27	CYCLE TRACK 	West Peachtree Street	Pine Street	Ivan Allen Jr Boulevard	5	4	2 travel lanes; 2 bus only lanes Drop bus only lane and add handicap parking in front of federal building along West Peachtree Street; Parking relocated from Ivan Allen Jr. Boulevard.
A48	SHARED LANE MARKINGS 	Peachtree Street	Porter Place	West Peachtree Street	4	3	4 travel lanes
A28	SHARED LANE MARKINGS 	Peachtree Street	West Peachtree Street	John Portman Boulevard	5	3	3 travel lanes On-street parking is along western edge of roadway. There will be one southbound travel lane and two northbound travel lanes.

5.0 Minutes 2.5
0.75 Miles 0.375 0

Peachtree-Ralph McGill-Peachtree Center-Courtland Intersection Concepts

Overview

Concept Summary

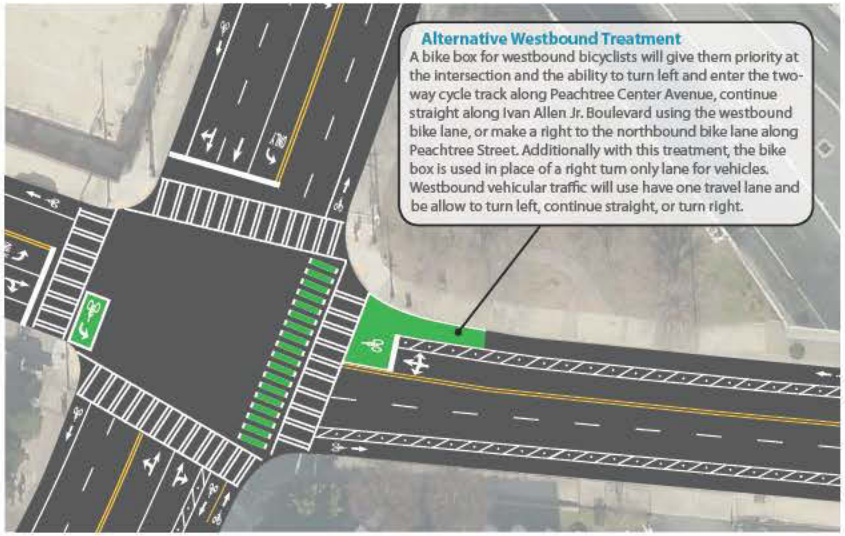
The overall design goal for these intersections is to create a safe and comfortable connection at a junction of several important bike routes. This location connects Midtown, Downtown, and the adjacent neighborhoods east and west. Below is a summary of the different routes and their connection to these intersections.

- **West Peachtree Street/Porter Place** - People will be able to use Porter Place to connect between Peachtree Street/Peachtree Center Avenue and West Peachtree/Ivan Allen Jr. Boulevard.
- **Peachtree Center Avenue** - The two-way cycle track will connect people from Midtown into Downtown, or vice versa, or to bike lanes that run east-west along Ivan Allen/Ralph McGill.
- **Peachtree Street** - Bike lanes will run north and south across the bridge into Midtown. South of Porter Place, people will be able to use the Peachtree Center Avenue cycle track or the shared lane marking along Peachtree Street to the Portman Boulevard cycle track.
- **Ivan Allen Jr Boulevard/Ralph McGill Boulevard** - Bike lanes along both streets will connect to the Peachtree Street and the Peachtree Center Avenue cycle track.
- **Courtland Street** – People biking southbound along Courtland Street using the cycle track will be able to continue south bound using a protected facility along Peachtree Center Avenue.

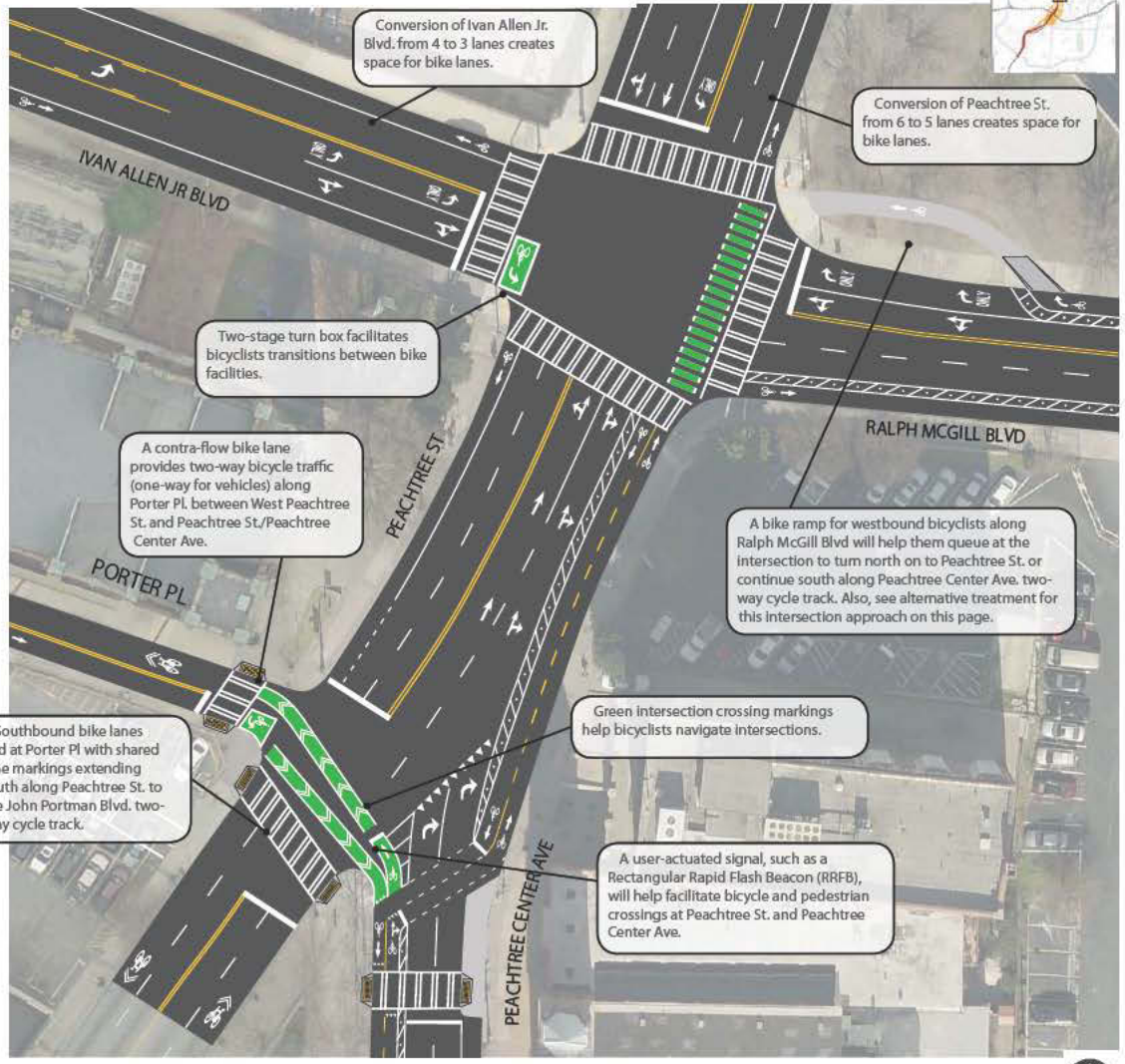
This image is not to scale and is presented for illustrative purposes only.

Peachtree-Ralph McGill-Peachtree Center-Courtland Intersection Concepts

Part 1: Peachtree St. at Ralph McGill/Porter/Peachtree Center



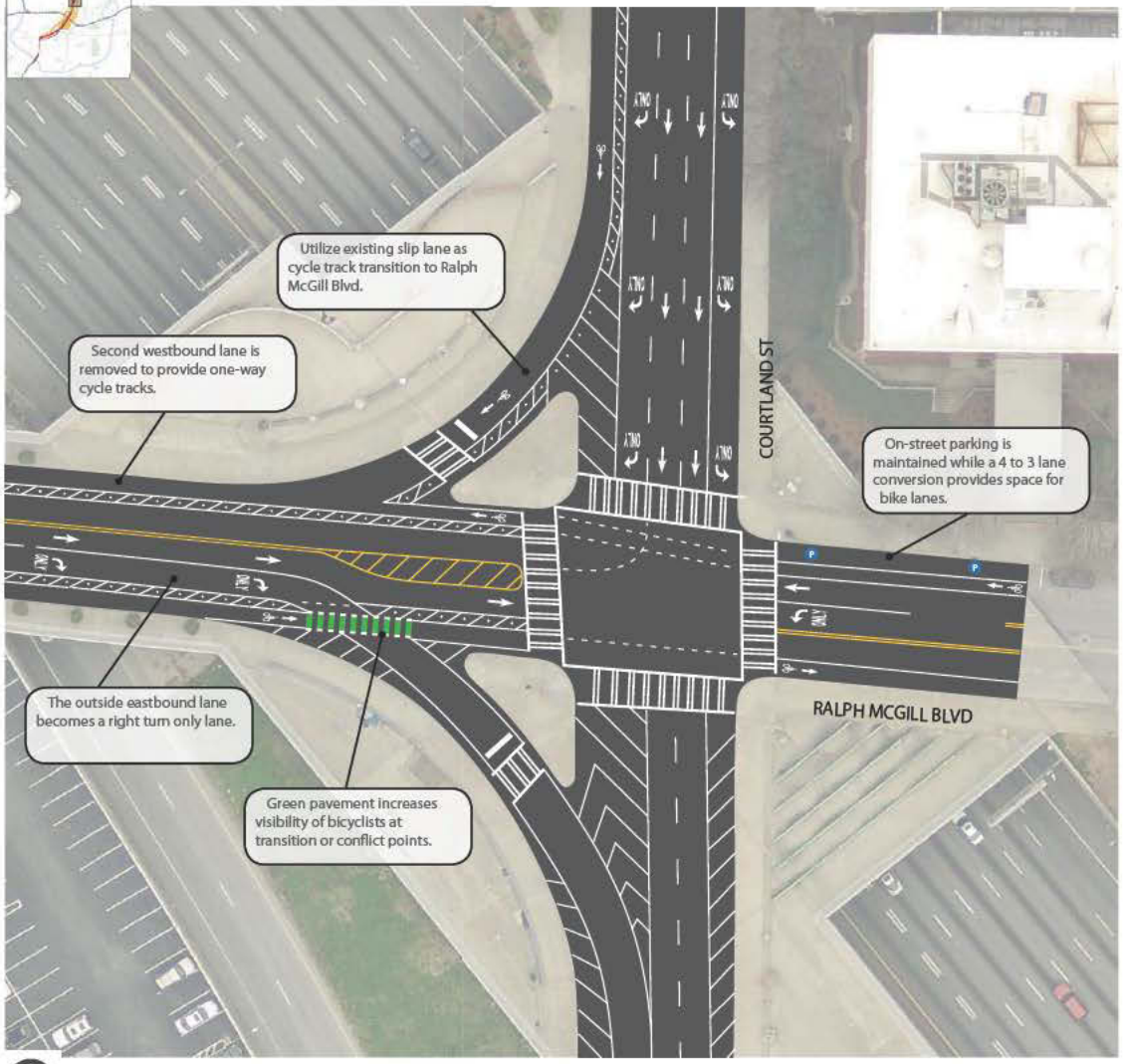
Green pavement markings can be applied at intersections to enhance the visibility of bicyclists, improve wayfinding, and help them navigate intersections safely.



This image is not to scale and is presented for illustrative purposes only.

Peachtree-Ralph McGill-Peachtree Center-Courtland Intersection Concepts

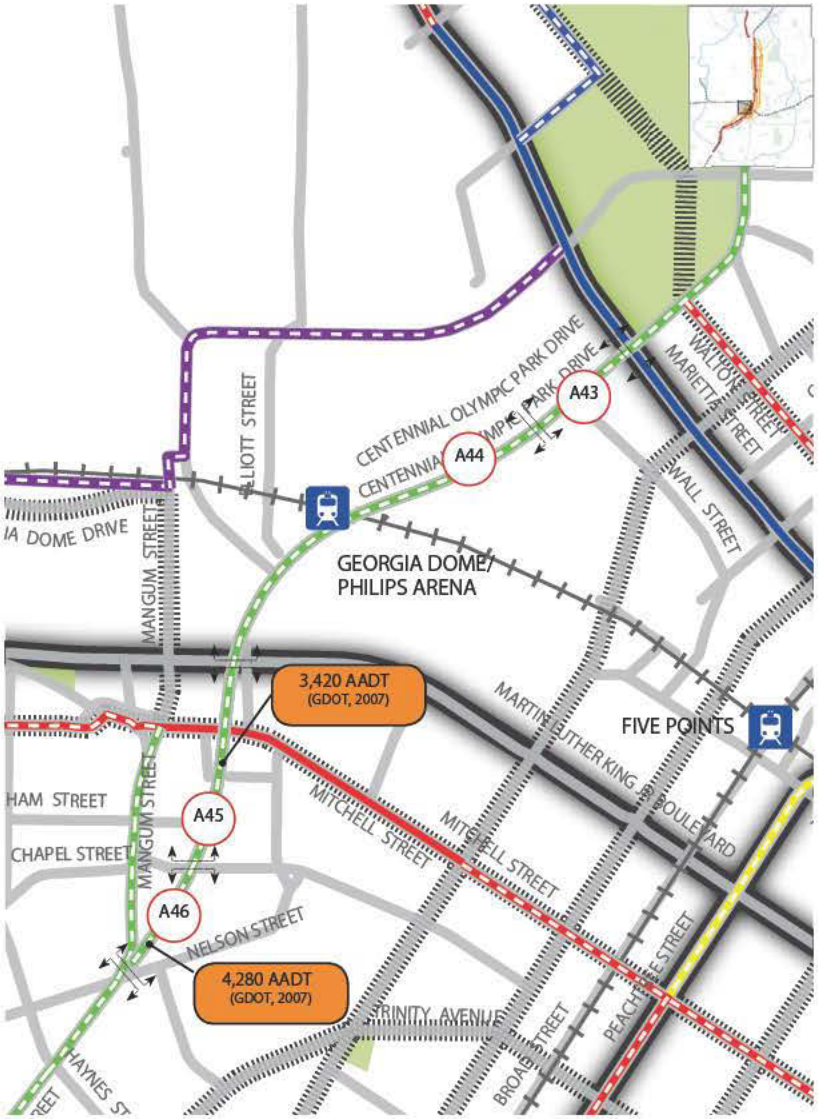
Part 2: Ralph McGill at Courtland



This image is not to scale and is presented for illustrative purposes only.

Green pavement markings can be applied where vehicular lanes and bikeway facilities intersect to raise awareness of bicyclist movements. In this image, green pavement markings are applied where vehicular traffic may enter a dedicated right turn only lane while the bike lane continues along the street. This application is similar to the treatment for the eastbound cycle track along Ralph McGill Boulevard as it approaches the intersection at Courtland Street.

Cross Section ID	Cross Section	Street	From	To	Existing Travel Lanes	Proposed Travel Lanes	Notes
A43	2-WAY CYCLE TRACK  	Centennial Olympic Park Drive	Marietta Street	Phillips Arena	4	2	2 travel lanes On-street parking lanes may be designed to be on-street parking during non-event periods and travel lanes or loading lanes during events. If Centennial Olympic Park Drive is converted from one-way to two-way, the cross section can be changed from two southbound travel lanes to one southbound travel lane and one northbound travel lane.
A44	CYCLE TRACK  	Centennial Olympic Park Drive	Phillips Arena	Martin Luther King Jr Drive	4	2	2 travel lanes On-street parking lanes may be designed to be on-street parking during non-event periods and travel lanes or loading lanes during events. If Centennial Olympic Park Drive is converted from one-way to two-way, the cross section can be changed from two southbound travel lanes to one southbound travel lane and one northbound travel lane.
A45	2-WAY CYCLE TRACK  	Centennial Olympic Park Drive	Martin Luther King Jr. Drive	Chapel Street	5	4	4 travel lanes
A46	2-WAY CYCLE TRACK  	Centennial Olympic Park Drive	Chapel Street	Nelson Street	4	3	3 travel lanes

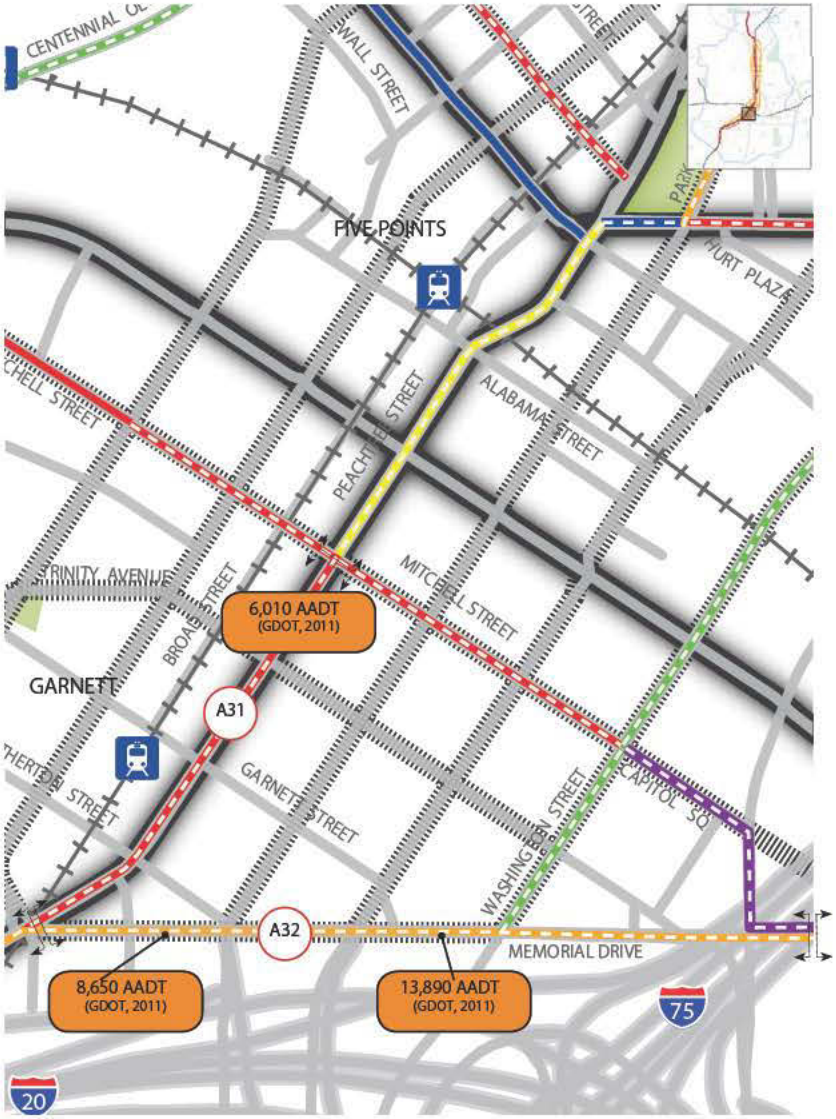


Cross Section ID	Cross Section	Street	From	To	Existing Travel Lanes	Proposed Travel Lanes	Notes
A29	2 WAY CYCLE TRACK 	Gilmer Street	Peachtree Center Avenue	Courtland Avenue	3	2	2 travel lanes; on-street parking both sides of street
A30	2-WAY CYCLE TRACK 	Courtland Street/ Washington Street	Gilmer Street	Memorial Drive	4	3	3 travel lanes

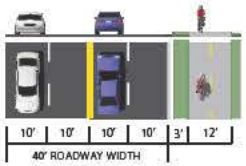
Additional Notes

1	The Atlanta Downtown Improvement District (ADID) is currently working on a streetscape and plaza project for Peachtree Street near the Five Points MARTA station. Specifically, ADID is developing concepts for the segment of Peachtree Street from Martin Luther KIng Jr. Boulevard to Marietta Street. The overall goal for this segment is to design a street environment that is more supportive of transit and pedestrians. With the emphasis on pedestrians, low vehicular volumes, and speeds, the street will likely not need a dedicated bike facility. However as designs are developed, they should consider design elements that support a bicycle connection to the Five Points MARTA station.
2	Once the Atlanta Streetcar construction is completed, a bicycle facility connection should be developed to connect cyclists between Walton Street and Auburn Avenue and Edgewood Avenue.
3	A new Georgia State MARTA station entrance has been proposed at Courtland Avenue. If this station entrance is developed, this entrance should be developed as the primary bicycle entrance for the station.

Cross Section ID	Cross Section	Street	From	To	Existing Travel Lanes	Proposed Travel Lanes	Notes
A31	BIKE LANES 	Peachtree Street	Martin Luther King Jr. Boulevard	Memorial Drive	4	3	2 travel lanes; center turn lane
A32	BUFFERED BIKE LANE 	Memorial Drive	Peachtree Street	Fraser Street	5	3	2 travel lanes; center turn lane



5.0 Minutes 2.5
0.75 Miles 0.375 0

Cross Section ID	Cross Section	Street	From	To	Existing Travel Lanes	Proposed Travel Lanes	Notes
A33	BUFFERED BIKE LANES 	Whitehall Street	Peachtree Street	Interstate 20	4	2	2 travel lanes
A34	MULTI-USE PATH 	Peters Street	Walker Street	Chapel Street	6	4	4 travel lanes The buffer between the multi-use path and the roadway should be preserved and expanded where right-of-way allows. The buffer increases separation between path users and vehicles and increases path user comfort.

Additional Notes

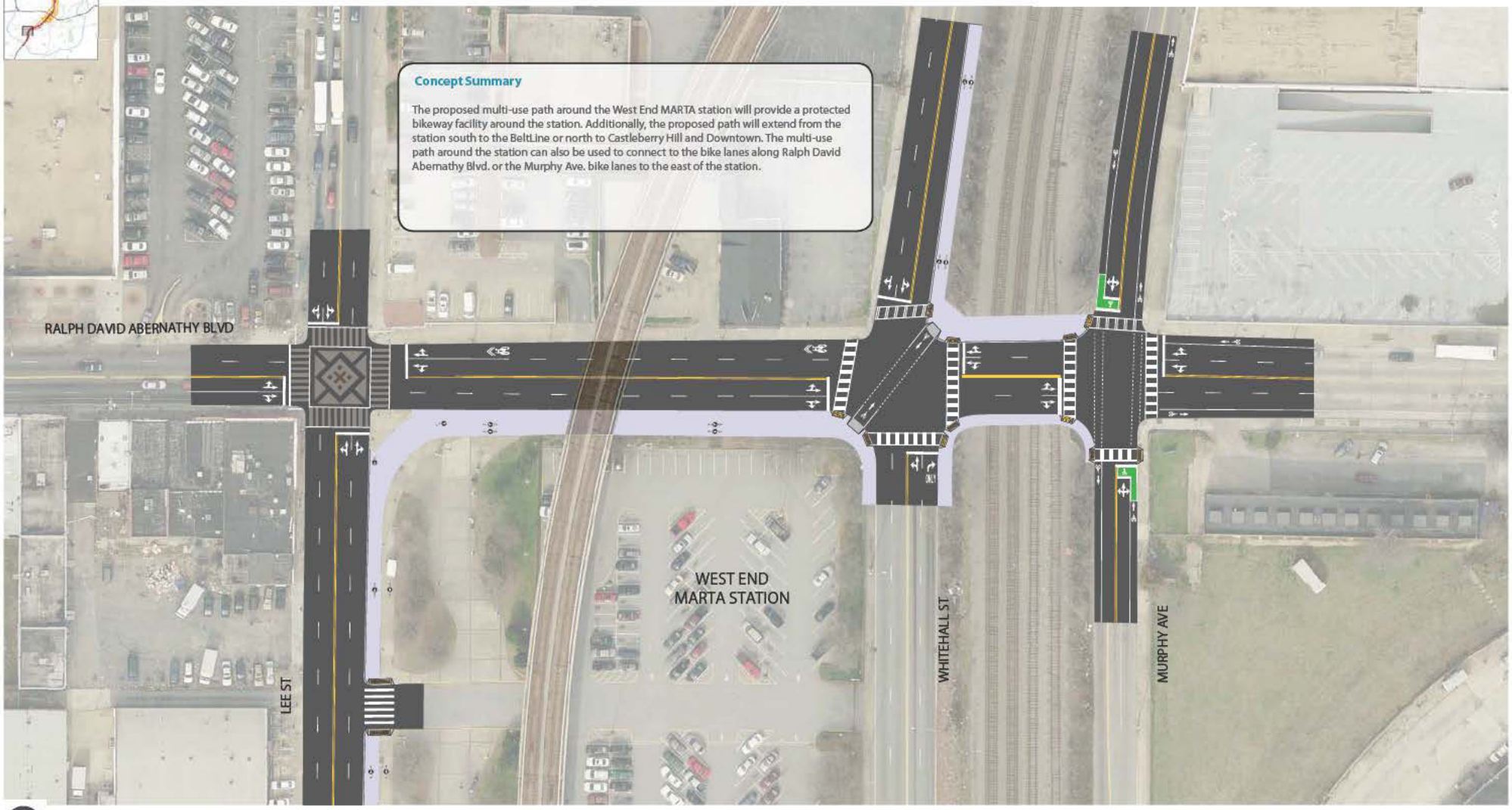
1	The intersection of Walker Street and Peters Street requires future study. The alignment and transition between the two-way cycle track along Walker Street and the multi-use path along Peters Street needs additional consideration.

Cross Section ID	Cross Section	Street	From	To	Existing Travel Lanes	Proposed Travel Lanes	Notes
A35	MULTI-USE PATH 	Whitehall Street	Chapel Street	Oak Street	5	4	4 travel lanes No buffer between the path and the roadway is shown because of the constrained right-of-way conditions along the corridor. If additional right-of-way is available when the project is developed, a buffer between the path and the roadway should be provided.
A36	BIKE LANES 	Murphy Avenue	Interstate 20	Lee Street	3	2	2 travel lanes
A37	MULTI-USE PATH 	Whitehall Street	Oak Street	Ralph David Abernathy Boulevard	4	3	2 travel lanes; center turn lane No buffer between the path and the roadway is shown because of the constrained right-of-way conditions along the corridor. If additional right-of-way is available when the project is developed, a buffer between the path and the roadway should be provided.

5.0 Minutes 2.5
0.75 Miles 0.375 0

West End MARTA Station Intersection Concepts

Overview



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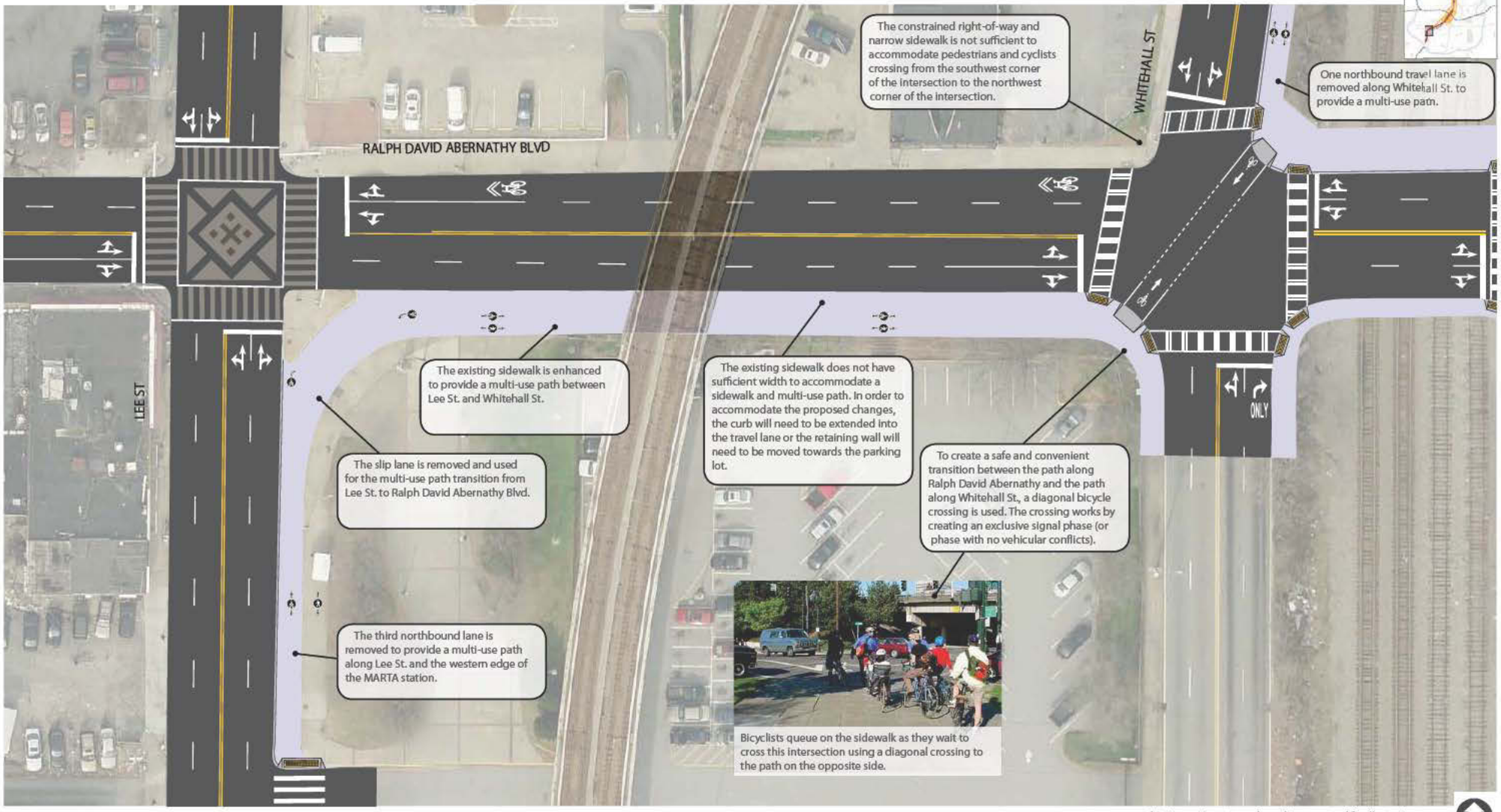
West End MARTA Station Intersection Concepts

Part 1: Ralph David Abernathy Blvd. from Lee St. to Whitehall St.



Bicyclists queue on the sidewalk as they wait to cross this intersection using a diagonal crossing to the path on the opposite side.

This image is not to scale and is presented for illustrative purposes only.

Cross Section ID	Cross Section	Street	From	To	Existing Travel Lanes	Proposed Travel Lanes	Notes
A38		Lee Street	Ralph David Abernathy Boulevard	Murphy Avenue	5	4	4 travel lanes
A39		Murphy Avenue	Lee Street	Allene Avenue	2	2	2 travel lanes
A40		Murphy Avenue	Allene Avenue	Atlanta BeltLine	2	2	2 travel lanes Debris and soil must be cleared from the edge of the roadway to create the proposed roadway width. The extra roadway width will allow the existing travel lanes to be preserved while adding bike lanes.

Cross Section ID	Cross Section	Street	From	To	Existing Travel Lanes	Proposed Travel Lanes	Notes
A41	MULTI-USE PATH 	Lee Street	Murphy Avenue	Sylvan Road	5	4	4 travel lanes Right-of-way may need to be acquired to accommodate the new street trees and multi-use path. Coordinate with GDOT and MARTA.
A42	BUFFERED BIKE LANES 	Murphy Avenue	Atlanta BeltLine	Sylvan Road	2	2	2 travel lanes

Corridor B. Knight Park – Midtown – Virginia-Highland

W Marietta St. – 10th St.

Overview

Corridor B is the shortest of the five corridors at 3.6 miles and one of three Cycle Atlanta corridors that cross the city exclusively from west to east. The corridor connects to two other Cycle Atlanta corridors – Corridor E and Corridor A. From the west, it starts along West Marietta Street and the northwest segment of the BeltLine, connects to Georgia Tech and Midtown, and then finishes on the eastern end of the corridor by connecting to Piedmont Park and the Eastside Trail.

Network Design

From the Atlanta BeltLine and the western end of the corridor, West Marietta Street is the only route option along the corridor that is proposed for implementation. This side of Corridor B is limited by industrial land uses and the limited number of options to cross over the active rail lines.

At Howell Mill Road, bicyclists will have two and sometimes three options to continue east along the corridor. Around Georgia Tech, cyclists will have the option of traveling along a bike lane or multi-use path along 10th Street. Bicyclists will also have the option to travel along 8th Street and Ferst Drive.

At the interstate, cyclists will be able to travel over the 10th Street bridge using a raised cycle track or over the 5th Street bridge using the existing bike lanes. Once over the interstate on 5th Street, bicyclists can continue east in the existing bike lanes to proposed protected bike facilities along West Peachtree Street, Juniper Street, and Piedmont Avenue, as well as the bike facilities along Peachtree Street.

East of the 10th Street bridge into Midtown, cyclists will have the option of continuing along 10th Street or use a protected two-way cycle track along Williams Street to 12th Street or 8th Street bike boulevards. 12th Street and 8th Street are designed as bike boulevards to offer a "low stress," low traffic volume alternative to 10th Street. Both routes include shared lane markings along the two-way sections of the bike boulevards and contra-flow bicycle lanes along the one-way stretches of the routes.

In terms of destinations, the 12th Street bike boulevard connects to Piedmont Park and its popular off-street paths. Likewise, the 8th Street bike boulevard connects to Piedmont Park and the two-way cycle track along 10th street. People can use this cycle track to connect to the BeltLine and the Eastside Trail. Both of these routes connect to the West Peachtree Street, Peachtree Street, Juniper Street, and Piedmont Avenue bike facilities.

Facility Design

For the western portion of the corridor and around Georgia Tech, bike lanes are the primary facility type. This is largely a result of the existing street-curb-to-curb widths. Bike lanes along can be included without significantly impacting vehicular capacity. The facility exception in this area is the 10th Street multi-use path along 10th Street from Northside Drive to Fowler Drive.

In Midtown, a two-way cycle track over the 10th Street bridge and along Williams Street will allow people traveling east to enter Midtown using a protected facility. Once in Midtown, bicyclists comfortable riding along higher traffic volume streets can continue along 10th Street or riders that are more comfortable on lower traffic volume streets can use 12th Street and 8th Street. Both routes will have low motor vehicle volumes and speed and will be comfortable for most bicyclists.

One of the characteristics that will keep vehicle volumes low along 12th Street and 8th Street are the existing one-way streets along both routes. For the one-way stretches of the routes, contra-flow bike lanes will be provided to allow for two-way bike travel and one-way vehicle travel. Having the one-way streets for vehicles discourages through traffic along these streets and keeps traffic volumes low.

On the eastern edge of the corridor, a two-way cycle track will connect people traveling along the corridor to Piedmont Park, the Eastside Trail, and Virginia-Highland.

Corridor B Core and Alternative Routes

Corridor Length

3.6 miles
24 minutes by bike

Major Destinations

Atlanta BeltLine
King Plow Arts Center
Westside/Marietta Commercial District
Georgia Institute of Technology
Midtown Mile
Piedmont Park
Grady High School

MARTA Stations

Midtown

Neighborhoods

Knight Park/Howell Station
English Avenue
Home Park
Georgia Tech
Midtown
Virginia-Highland

NPU

E
K
L

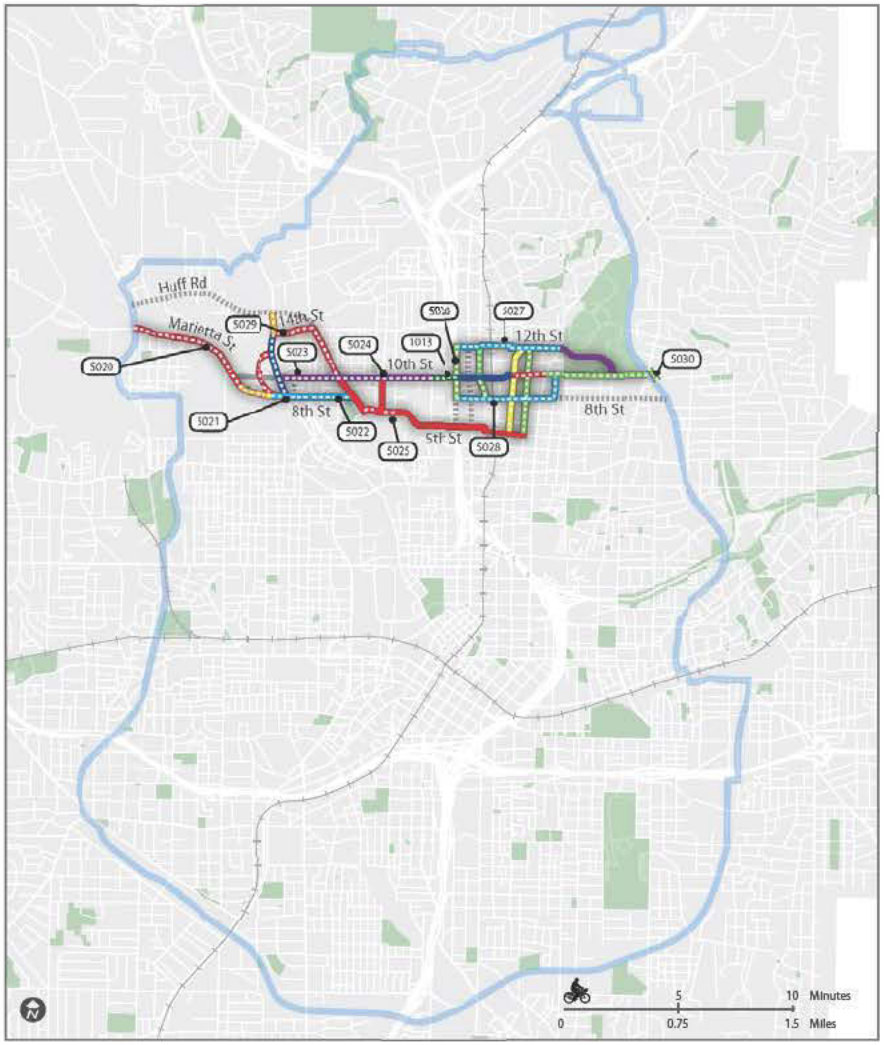
Council Districts

2
3
6

Relevant Plans

Atlanta BeltLine Subarea 9 Master Plan
Atlanta BeltLine Subarea 8 Master Plan
Atlanta BeltLine Subarea 6 Master Plan
Upper Westside LCI

Corridor B Network Design Map



Corridor B Projects

The projects listed in the table below are the projects currently programmed for construction along the corridor as well as new projects proposed as part of the *Cycle Atlanta: Phase 1.0 Study*. Facility type, the street that the project applies to, a description of the start and end points for the projects, and a summary cost estimate are provided. Additional project cost information is provided in the Appendix for each project.

ID	Facility Type	Street	To	From	Cross Section(s)	Cost
1013	Raised Cycle Track	10th Street	Williams Street	Fowler Street		n/a
5020	Bike Lane-Buffered Bike Lane	West Marietta Street	Marietta Boulevard	Marietta Street	B1, B2, B3	$238,234
5021	Bike Boulevard	8th Street	Brady Avenue	Northside Drive	B4	$1,925
5022	Bike Boulevard	8th Street	Northside Drive	Hemphill	B5	$137,754
5023	Multi-Use Path	10th Street	Howell Mill Road	Northside Drive	B23	$350,900
5024	Multi-Use Path	10th Street	Northside Drive	Fowler Street	B7	$674,685
5025	Bike Lane	Ferst Drive	Hemphill Avenue	Atlantic Drive	B6, B8	$13,503
5026	Cycle Track	Williams Street	12th Street	8th Street	B9	$135,642
5027	Bike Boulevard	12th Street	Williams Street	Piedmont Avenue	B10, B11, B12, B13, B14, B15	$29,428
5028	Bike Boulevard	8th Street	Williams Street	10th Street	B16, B17, B18, B19, B20, B21, B22	$22,770
5029	Bike Lane	14th Street	Howell Mill Road	Hemphill Avenue	B24	$45,586
5030	Cycle Track	Kanuga Street	Virginia Avenue	Monroe Drive	B25	$15,325

Notes

1. 1000 series: Facilities to be built in 2013

2. 2000 series: Facilities to be built in 2014

3. 3000 series: Facilities to be built in 2015

4. 4000 series: Unfunded high-priority projects we hope to fund by 2016

5. 5000 series: Facilities developed as part of the *Cycle Atlanta: Phase 1.0 Study*; 5000 - 5019 is for Corridor A projects, 5020 - 5039 is for Corridor B projects, 5040-5059 is for Corridor C projects, 5060 - 5079 is for Corridor D projects, and 5080 - 5099 is for Corridor E projects

6. Cost estimates include an estimate of probable cost for construction, design cost (25% of construction cost), and contingency cost (20% of construction costs). Construction costs can include re-striping costs, signal improvements, new pavement markings, and multi-use path construction. Construction costs do not include resurfacing costs. Cost estimates for 1000 to 4000 series projects are not provided because they have already been funded, are in the process of being designed, or are in the process of being constructed.

Corridor B Design Schematics

The cross sections, plan concepts, and accompanying notes provide a description for the design of the proposed facilities along the corridor. A typical cross section has been developed for every segment of the corridor where a facility is proposed as part of the *Cycle Atlanta: Phase 1.0 Study* and where projects have been programmed but the facility design has not been finalized. Cross sections were not developed for corridor segments that already have a facility, where the facility has already been programmed for construction, or where the facility has already been designed through another project or planning effort.

The typical cross sections and plan concepts form the basis for the cost estimates presented on the previous page. Each project consists of one or more cross sections or plan concept segments. The design schematics were used to provide details about facility design for projects, particularly where cross sections change along the corridor or intersection design is more complex.

The legend below provides a summary of the different symbols and line types used to describe existing conditions or proposed features along the corridor.

Design Schematics Legend

EXISTING BIKE FACILITIES

- Shared Lane Marking
- Bike Lane
- Multi-Use Path

PROPOSED BIKE FACILITIES

- Shared Lane Marking
- Bike Lane
- Multi-Use Path
- Bike Boulevard
- Buffered Bike Lane
- Protected Cycle Track
- Alternative Facility Options
- Raised Cycle Track

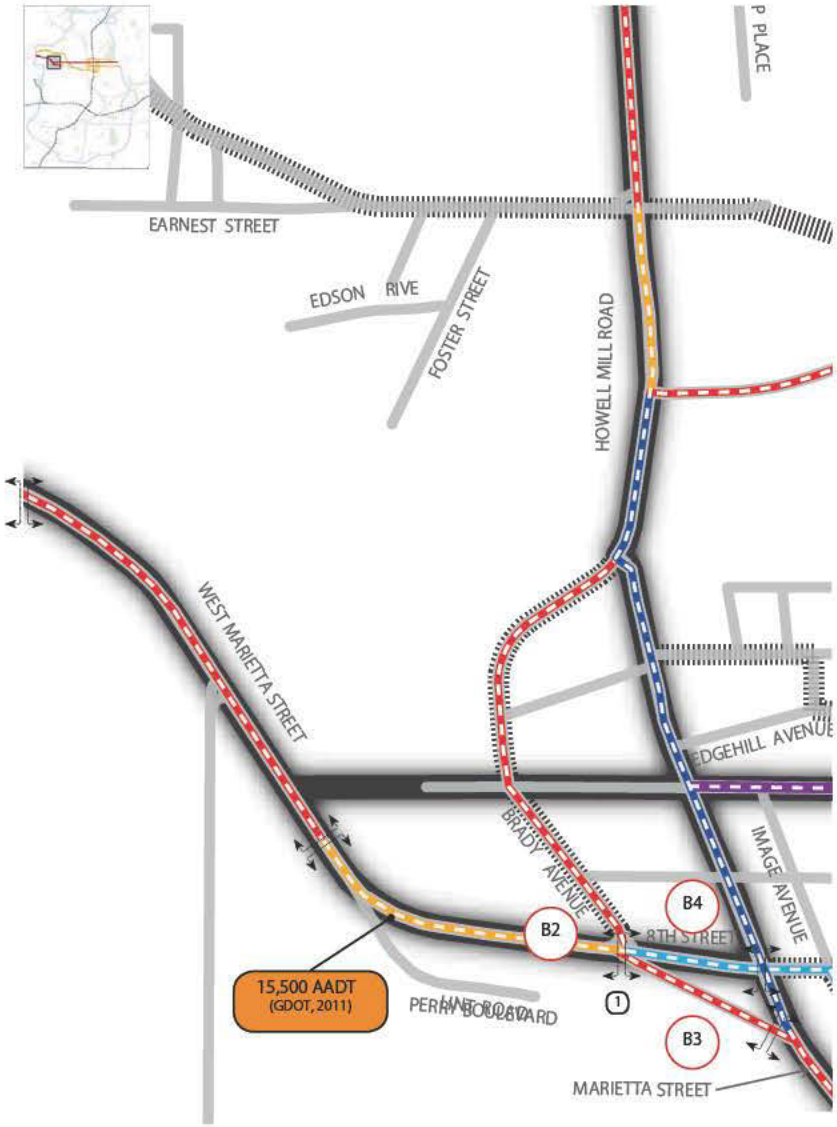
STUDY FOCUS FEATURES

- Core Study Corridor
- Alternative Study Corridor
- Atlanta BeltLine Corridor
- MARTA Rail Station

ANNOTATION SYMBOLS

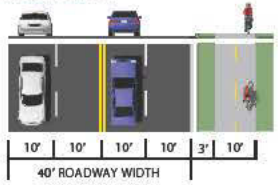
- Cross Section Application Location
- Map Annotation
- Cross Section Segment To/From Point
- Corridor Connection to Atlanta BeltLine
- Annual Average Daily Traffic

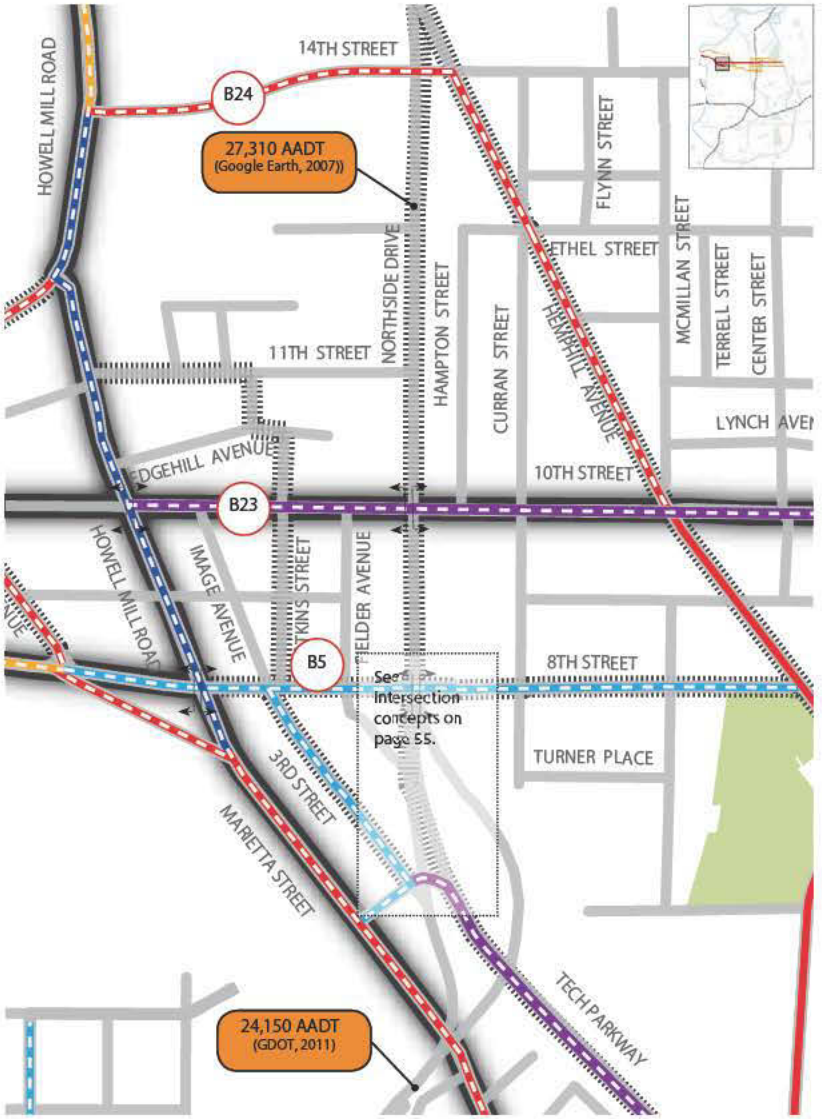
Cross Section ID	Cross Section	Street	From	To	Existing Travel Lanes	Proposed Travel Lanes	Notes
B1		West Marietta Street	Marietta Boulevard	Perry Boulevard	4	3	2 travel lanes; center turn lane Truck traffic is significant along this segment and it is a designated truck route. Travel lanes should be a minimum of 11' and 12' where possible. The minimum bike lane width is 4'.



Cross Section ID	Cross Section	Street	From	To	Existing Travel Lanes	Proposed Travel Lanes	Notes
B2	BUFFERED BIKE LANES 	West Marietta Street	Perry Boulevard	Brady Avenue	4	3	2 travel lanes; center turn lane
B3	BIKE LANE / SHARED LANE MARKINGS 	West Marlettta Street	Brady Avenue	Marietta Street	2	2	2 travel lanes
B4	SHARED LANE MARKINGS 	8th Street	Brady Avenue	Howell Mill Road	2	2	2 travel lanes

Additional Notes	
1	The intersection of West Marietta Street, Brady Avenue, and 8th Street requires future study. The alignment and transition between the intersecting bikeways needs additional consideration to help cyclists navigate the intersection comfortably and safely.

Cross Section ID	Cross Section	Street	From	To	Existing Travel Lanes	Proposed Travel Lanes	Notes
B5	SHARED LANE MARKINGS 	8th Street	Howell Mill Road	Northside Drive	2	2	2 travel lanes
B23	MULTI-USE PATH 	10th Street	Howell Mill Road	Northside Drive	4	4	4 travel lanes A multi-use path can be created along the southern edge of the roadway as properties re-develop. Instead of requiring new development to add on-street parking like development along the northern edge of the roadway, new development should improve and expand the sidewalk to accommodate a multi-use path. The buffer between the multi-use path and the roadway should be preserved and expanded where right-of-way allows. The buffer increases separation between path users and vehicles and increases path user comfort.
B24	BIKE LANES 	14th Street	Howell Mill Road	Hemphill Avenue	4	3	2 travel lanes; center turn lane



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Northside at 8th and Tech Parkway Intersection Concepts

Overview

Concept Summary

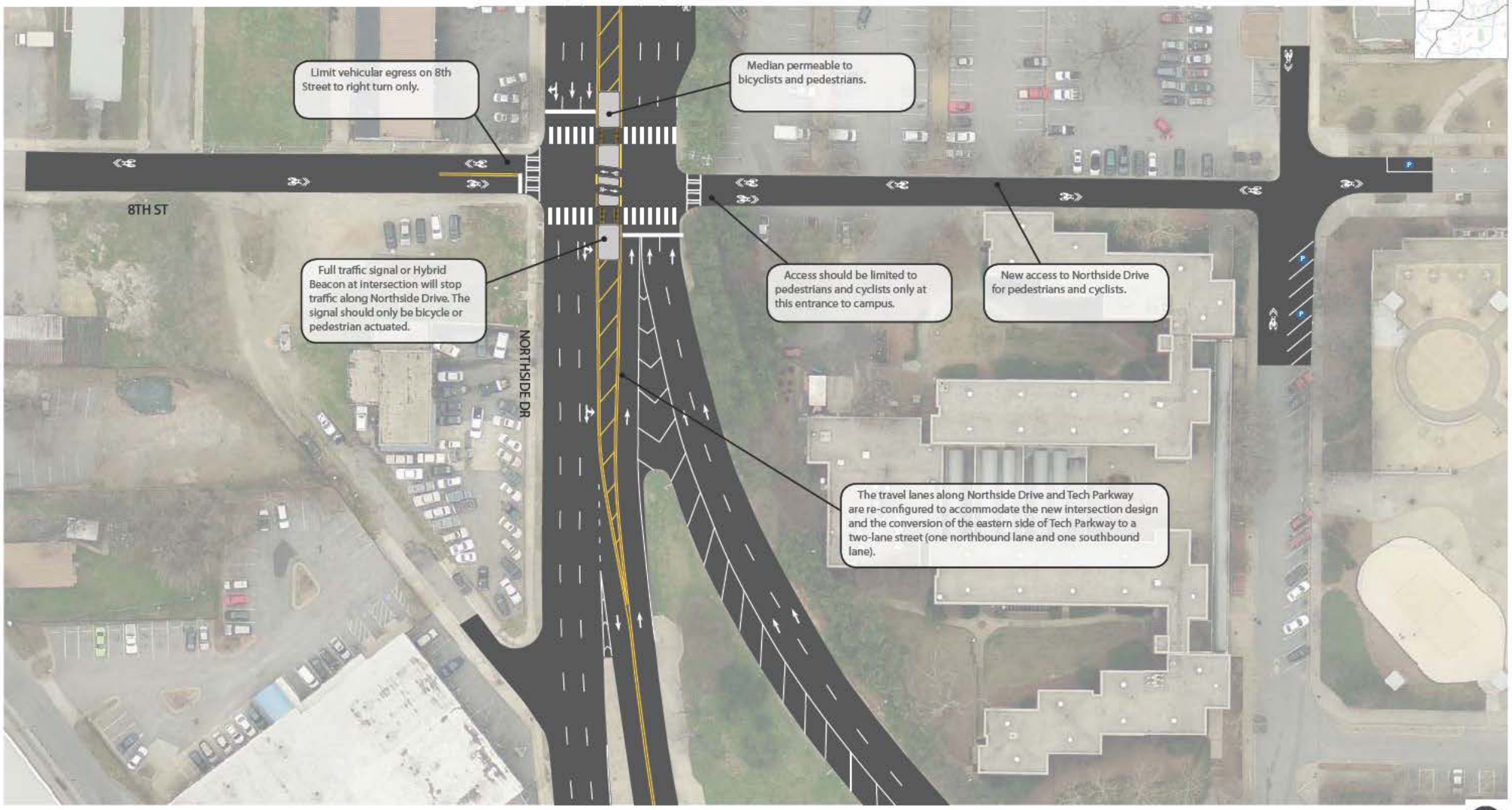
The goal with this concept is to provide a safe and convenient bicycle connection from the Marietta corridor to Georgia Tech and Tech Parkway. Currently, the Northside Drive and Tech Parkway intersection serves as a significant barrier between the area west of Georgia Tech and Georgia Tech. With these intersection improvements, bicyclists will be able to cross Northside Drive more easily and with a greater level of safety.

The intersection at 8th Street and Northside drive includes a new segment of 8th Street from Northside Drive to Curran Street on campus. This new street or path segment will be for bicyclists and pedestrians only and allow bicyclists to connect to the Hemphill Avenue and Ferst Drive bike lanes that continue east to Midtown. To help bicyclists and pedestrians cross at 8th Street and Northside Drive, the intersection will be signalized and a median refuge island will be installed. Lastly, the travel lanes for Northside Drive and Tech Parkway are re-aligned to accommodate the new intersection design and the conversion of Tech Parkway to a two-way street (one northbound lane and one southbound lane).

At the intersection of Tech Parkway, Northside Drive, and Hampton Drive, a bicycle and pedestrian crossing is proposed. This new crossing will allow pedestrians and bicyclists to more easily cross from the northern end of the Tech Parkway greenway and the Marietta Street corridor. To help with crossing Northside Drive, a special bicycle and pedestrian signal will be installed to alert motor vehicles to stop as they cross. Once across Northside Drive, bicyclists will be able to use Hampton Street or 3rd Street to connect to Marietta Street and Howell Mill Road.

Northside at 8th and Tech Parkway Intersection Concepts

Part 1: Northside Drive and 8th Street



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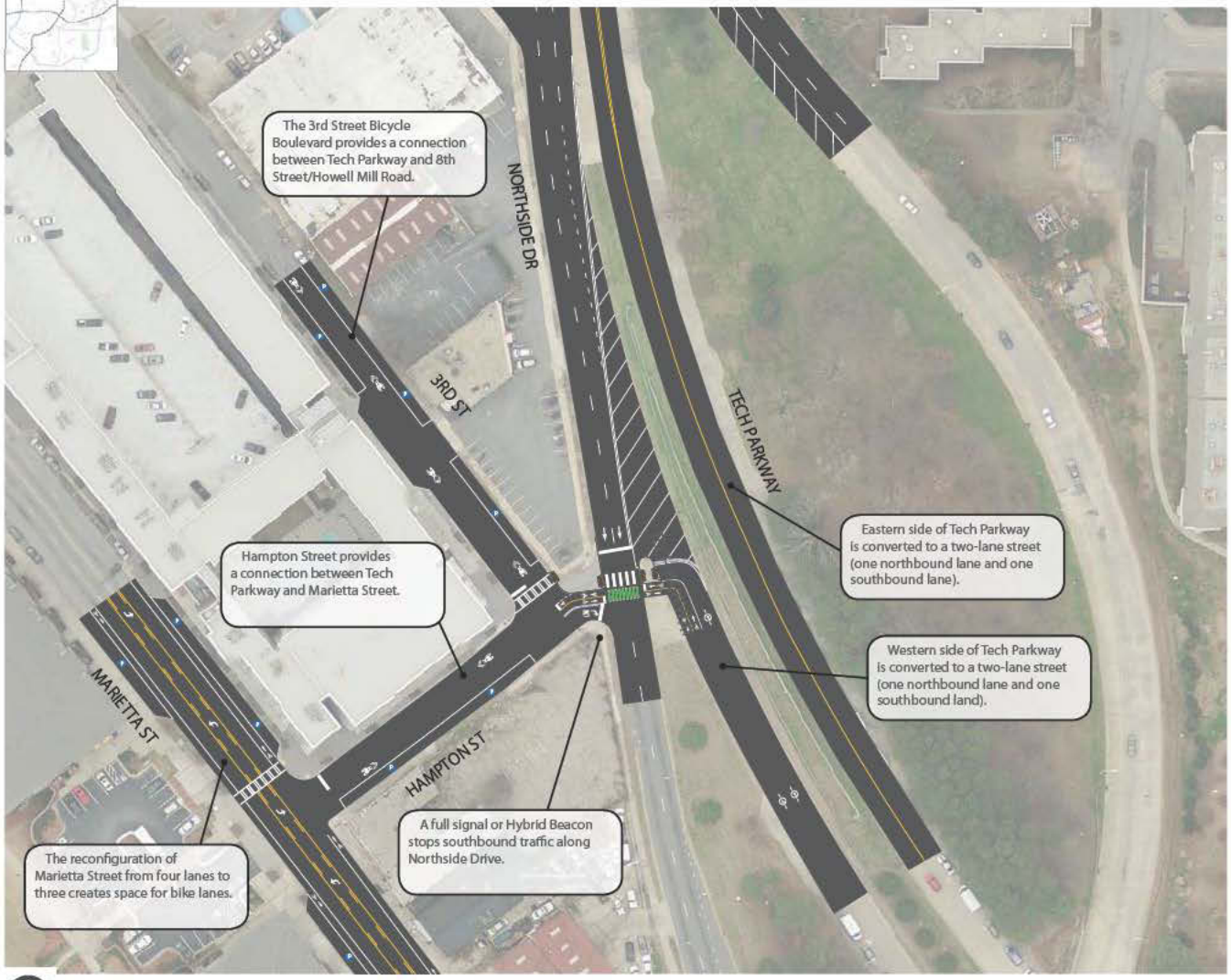
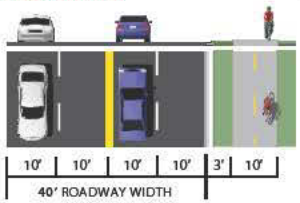
Northside at 8th and Tech Parkway Intersection Concepts

Part 2: Northside Drive at Tech Parkway-Hampton Street-3rd Street



The intent for the intersection of Hampton Street/Tech Parkway and Northside Drive is similar to this photo - to provide a signalized street crossing for cyclists and pedestrians to cross safely.

This image is not to scale and is presented for illustrative purposes only.

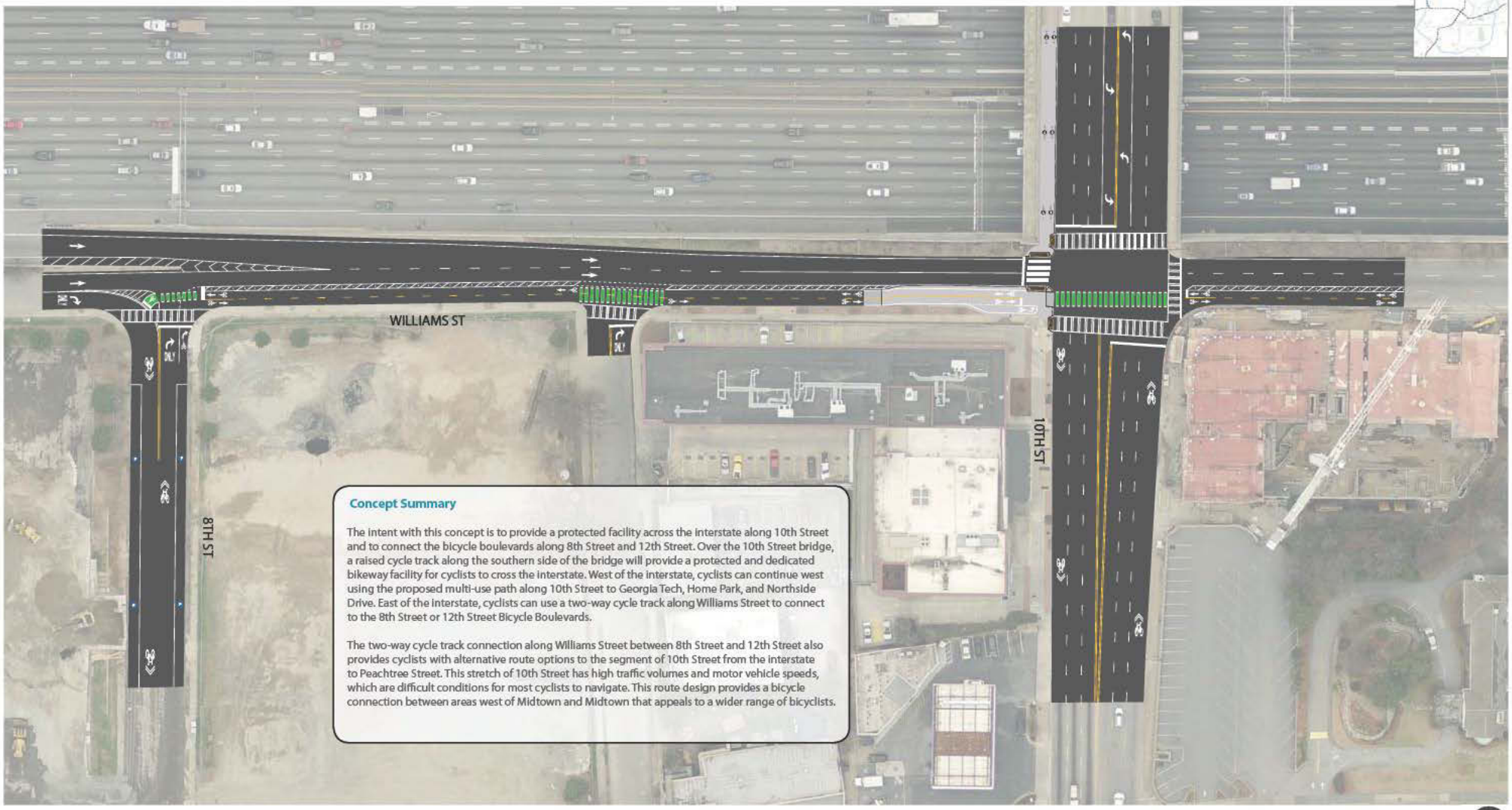
Cross Section ID	Cross Section	Street	From	To	Existing Vehicular Lanes	Proposed Vehicular Lanes	Notes
B6	BIKE LANES 	Ferst Drive	Hemphill Avenue	Dalney Street	2	2	2 travel lanes
B7	MULTI-USE PATH 	10th Street	Northside Drive	Fowler Street	4	4	4 travel lanes The buffer between the multi-use path and the roadway should be preserved and expanded where right-of-way allows. The buffer increases separation between path users and vehicles and increases path user comfort.

Cross Section ID	Cross Section	Street	From	To	Existing Travel Lanes	Proposed Travel Lanes	Notes
B8	BIKE LANES 	Ferst Drive	State Street	Atlantic Drive	2	2	2 travel lanes

Cross Section ID	Cross Section	Street	From	To	Existing Travel Lanes	Proposed Travel Lanes	Notes
B9	2-WAY CYCLE TRACK 	Williams Street	8th Street	12th Street	3	2	2 travel lanes

Williams Street at 8th and 10th Street Intersection Concepts

Overview



Concept Summary

The intent with this concept is to provide a protected facility across the interstate along 10th Street and to connect the bicycle boulevards along 8th Street and 12th Street. Over the 10th Street bridge, a raised cycle track along the southern side of the bridge will provide a protected and dedicated bikeway facility for cyclists to cross the interstate. West of the interstate, cyclists can continue west using the proposed multi-use path along 10th Street to Georgia Tech, Home Park, and Northside Drive. East of the interstate, cyclists can use a two-way cycle track along Williams Street to connect to the 8th Street or 12th Street Bicycle Boulevards.

The two-way cycle track connection along Williams Street between 8th Street and 12th Street also provides cyclists with alternative route options to the segment of 10th Street from the interstate to Peachtree Street. This stretch of 10th Street has high traffic volumes and motor vehicle speeds, which are difficult conditions for most cyclists to navigate. This route design provides a bicycle connection between areas west of Midtown and Midtown that appeals to a wider range of bicyclists.

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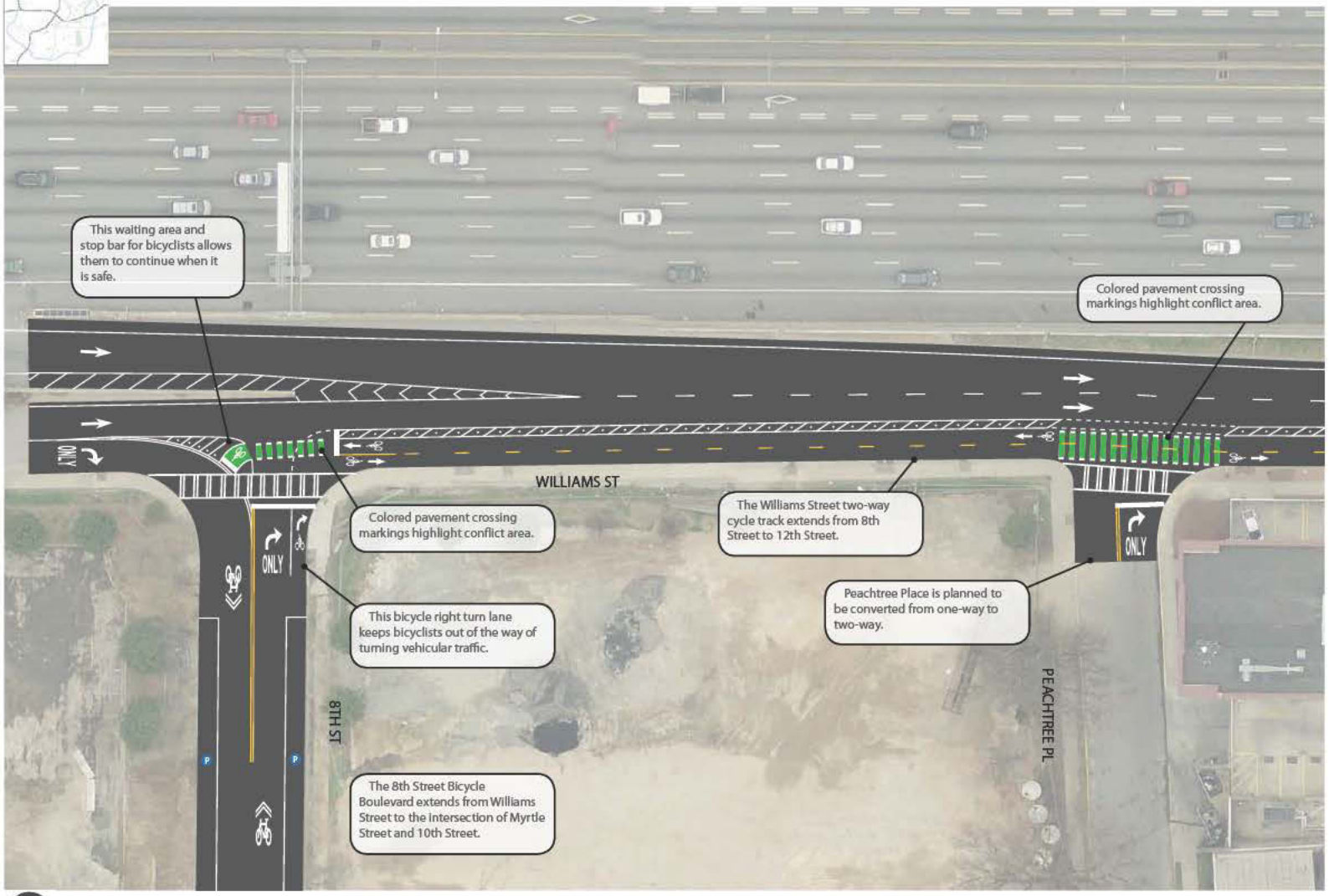
Williams Street at 8th and 10th Street Intersection Concepts

Part 1: Williams Street at 8th Street



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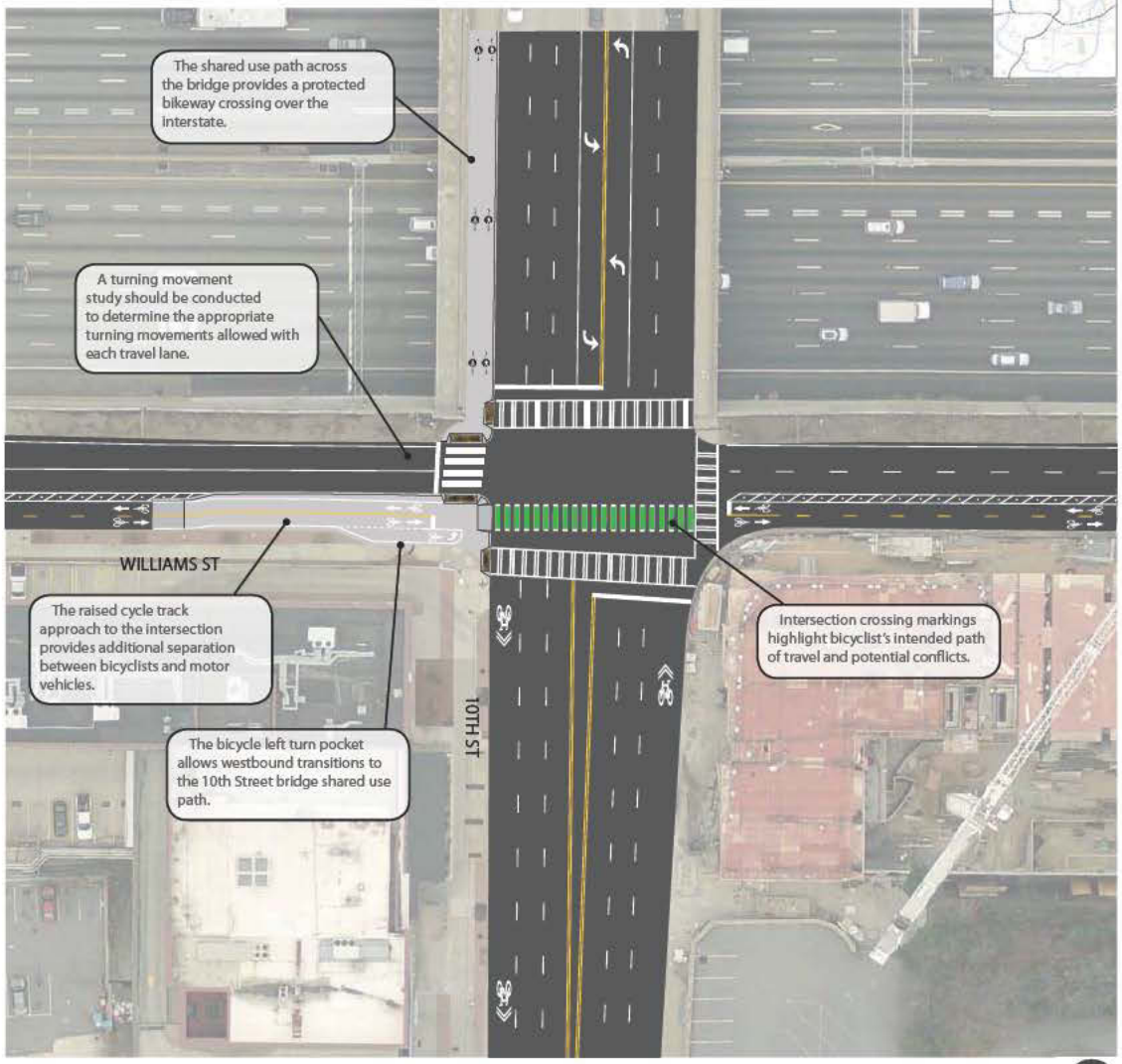
Williams Street at 8th and 10th Street Intersection Concepts

Part 2: Williams Street at 10th Street

The raised cycle track approach to 10th Street along Williams will function similarly to the one above. It is designed to provide vertical separation from motor vehicles. It also provides space for pedestrians and bicyclists to wait before crossing Williams Street to the 10th Street bridge.



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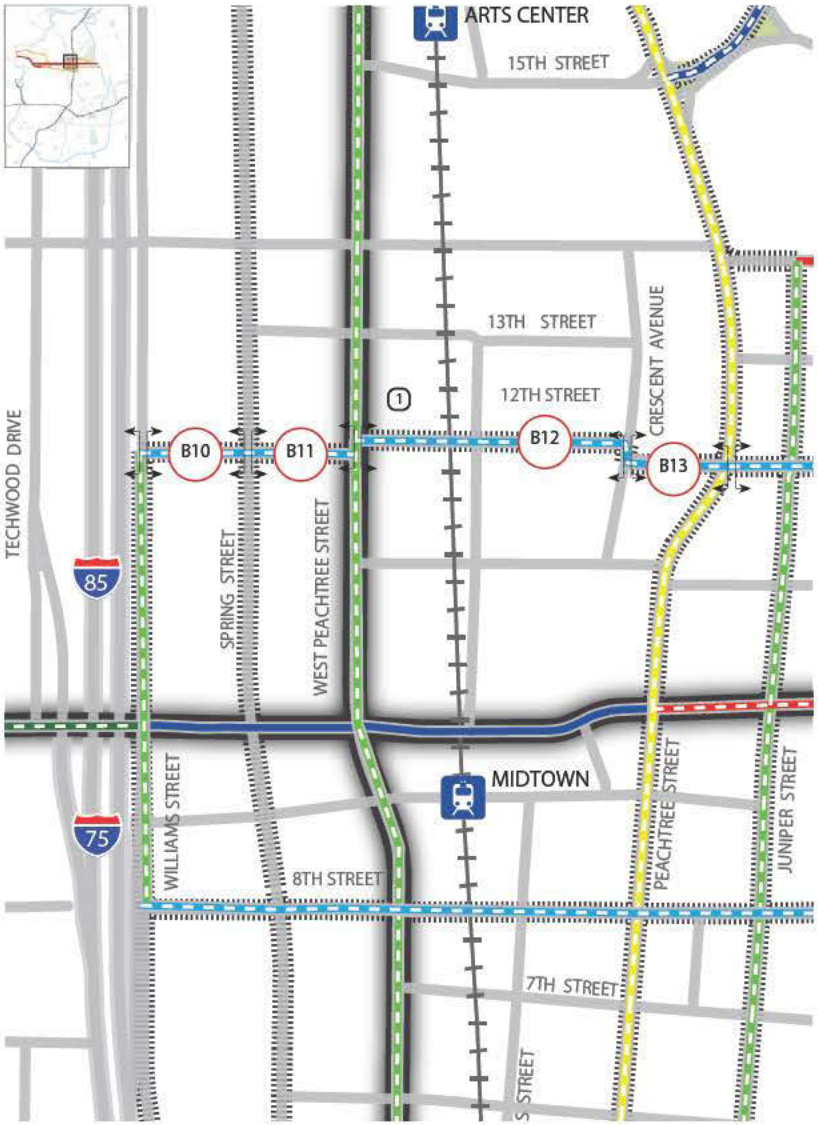
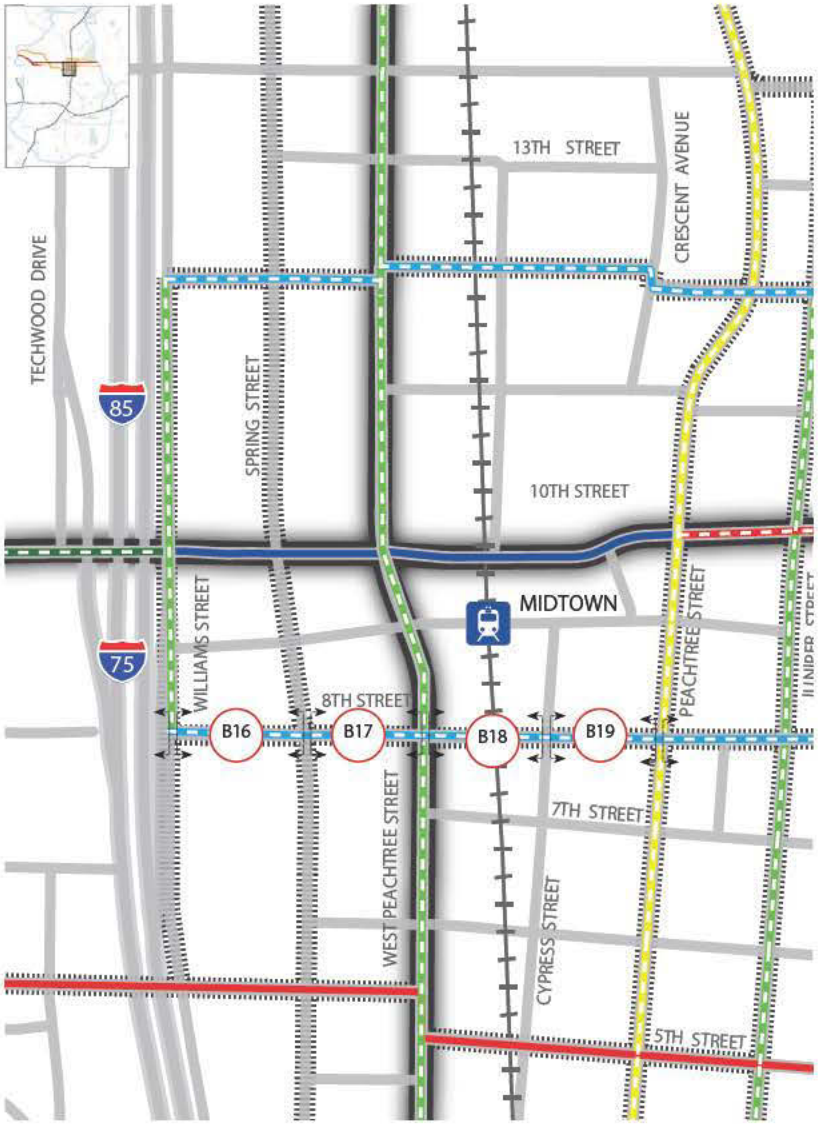


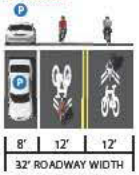
Cross Section ID	Cross Section	Street	From	To	Existing Travel Lanes	Proposed Travel Lanes	Notes
B10	BIKE LANES 	12th Street	Williams Street	Spring Street	2	2	2 travel lanes
B11	SHARED LANE MARKINGS 	12th Street	Spring Street	West Peachtree Street	2	2	2 travel lanes
B12	SHARED LANE MARKINGS / CONTRA FLOW BIKE LANE 	12th Street	West Peachtree Street	Crescent Avenue	1	1	1 travel lane If this segment is converted from one-way to two-way, traffic volume management strategies should be considered for the 12th Street Bike Boulevard.
B13	SHARED LANE MARKINGS 	12th Street	Crescent Avenue	Peachtree Street	2	2	2 travel lanes Center line should be solid at intersections at dashed midblock.

Additional Notes	
1	The intersection at 12th Street and West Peachtree Street will be re-aligned.

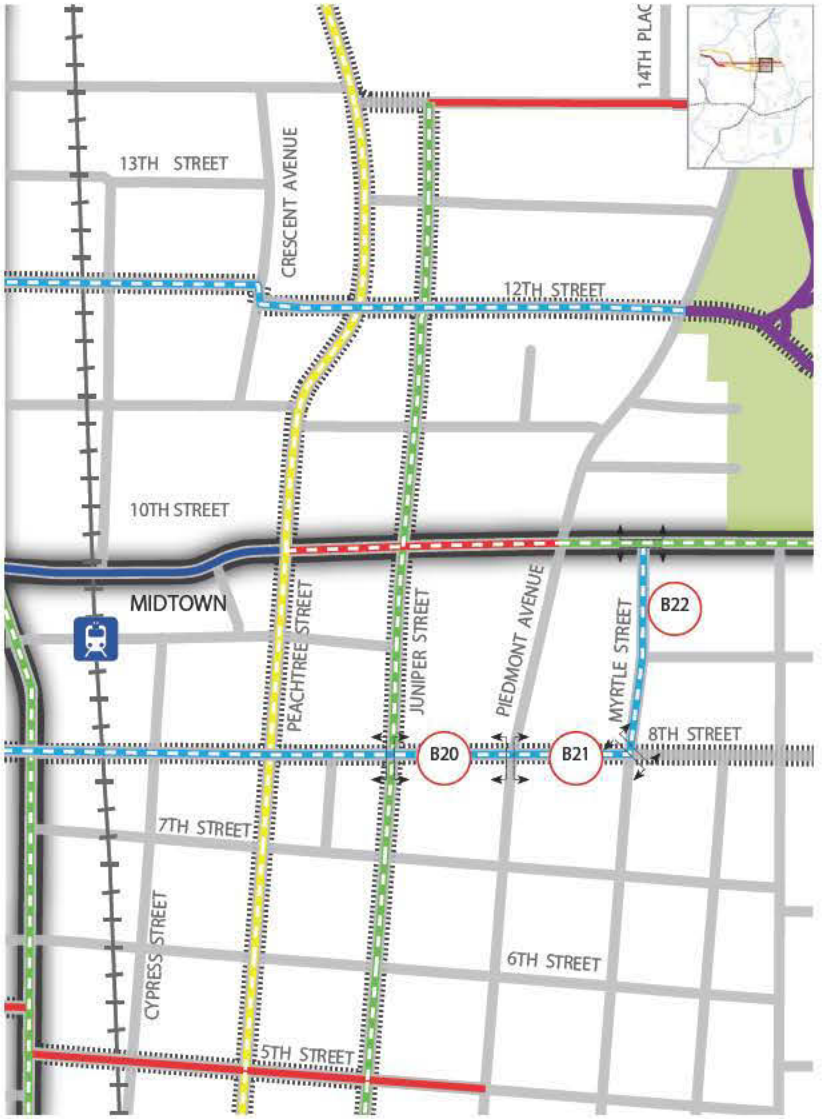
Cross Section ID	Cross Section	Street	From	To	Existing Travel Lanes	Proposed Travel Lanes	Notes
B14	SHARED LANE MARKINGS  	12th Street	Peachtree Street	Juniper Street	2	2	2 travel lanes
B15	SHARED LANE MARKINGS  	12th Street	Junipter Street	Piedmont Avenue	2	2	2 travel lanes

Additional Notes	
1	The intersection at 12th Street and Piedmont Avenue needs bicycle detection and bicycle push buttons to allow cyclists to actuate the signal.



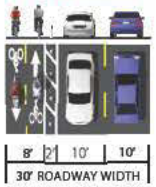
Cross Section ID	Cross Section	Street	From	To	Existing Travel Lanes	Proposed Travel Lanes	Notes
B16	SHARED LANE MARKINGS 	8th Street	Williams Street	Spring Street	2	2	2 travel lanes Center line should be solid at intersections at dashed midblock.
B17	SHARED LANE MARKINGS 	8th Street	Spring Street	West Peachtree Street	2	2	2 travel lanes Center line should be solid at intersections at dashed midblock.
B18	SHARED LANE MARKINGS / CONTRA FLOW BIKE LANE 	8th Street	West Peachtree Street	Cypress Street	1	1	1 travel lane If this segment is converted from one-way to two-way, traffic volume management strategies should be considered for the 8th Street Bike Boulevard.
B19	SHARED LANE MARKINGS / CONTRA FLOW BIKE LANE 	8th Street	Cypress Street	Peachtree Street	1	1	1 travel lane If this segment is converted from one-way to two-way, traffic volume management strategies should be considered for the 8th Street Bike Boulevard.

Cross Section ID	Cross Section	Street	From	To	Existing Travel Lanes	Proposed Travel Lanes	Notes
B20	SHARED LANE MARKINGS 	8th Street	Peachtree Street	Piedmont Avenue	2	2	1 travel lane
B21	SHARED LANE MARKINGS / CONTRA FLOW BIKE LANE 	8th Street	Piedmont Avenue	Myrtle Street	1	1	1 travel lane
B22	SHARED LANE MARKINGS 	Myrtle Street	8th Street	10th Street	2	2	2 travel lanes



5.0 Minutes — 2.5 — 0

0.75 Miles — 0.375

Cross Section ID	Cross Section	Street	From	To	Existing Travel Lanes	Proposed Travel Lanes	Notes
B25	2-WAY CYCLE TRACK  	Kanuga Street	Virginia Avenue	Monroe Drive	2	2	2 travel lanes On-street parking is removed to create space for bike lanes. A new traffic signal at Virginia Avenue and Kanuga Street may be needed to help cyclist and vehicles make a left turn from Kanuga Street on to Virginia Avenue.

Additional Notes

1 A two-way cycle track along 10th Street will be constructed along 10th Street from Piedmont Road to Monroe Drive. The project will be constructed in two phases. The first phase will extend from Monroe Drive to Charles Allen Drive. The second phase will extend from Charles Allen Drive to Piedmont Avenue.

The two-way cycle track along 10th Street will provide a direct, on-street bikeway connection from the Eastside Trail to Piedmont Park and Midtown. When completed, it will function similarly to the two-way cycle track above with a buffer and bollards separating cyclists from motor vehicles.

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Corridor C. Grove Park – Downtown – Poncey-Highland

JE Boone Blvd. – I Allen Jr. Blvd. – R McGill Blvd.

Overview

Corridor C is the most residential of the five corridors. With the exception of the stretch of the route through Downtown, the majority of the corridor traverses residential neighborhoods to the west and east of Downtown. The corridor connects to two other corridors including Corridor A and Corridor E.

Network Design

From the west, bike lanes along Joseph Boone Boulevard will connect the Bankhead, Hunter Hills, Washington Park, English Avenue, and Vine City neighborhoods to Downtown. This route also connects to the bike boulevard along James P. Brawley Drive.

This route is also notable for its potential for future connections to the Atlanta BeltLine trail and transit. Currently, the Atlanta BeltLine alignment includes active rail lines and significant grade changes between Boone Boulevard and the Atlanta BeltLine. MARTA also crosses under Boone Boulevard as it travels to the Bankhead and Ashby MARTA stations. However, a new MARTA station is proposed at the intersection of Boone Boulevard and the Atlanta BeltLine. When the station is built along with the BeltLine trail, the bike lanes will connect people to the Atlanta BeltLine trail and the MARTA station.

From Northside Drive, cyclists will be able to use the bike lanes along Ivan Allen Jr. Boulevard to cross over the railroad tracks and connect to bike lanes along Marietta Street, a two-way cycle track along Luckie Street and the future Street Car route along Luckie Street.

Continuing east, bike lanes along Ivan Allen Jr. Drive pass the Georgia Aquarium and the site of the Civil Rights Museum as the route extends into Downtown. Within Downtown, bicyclists will be able to connect to the cycle track along West Peachtree Street, use the contra-flow bike lane along Porter Place to connect to the two-way cycle track along Peachtree Center Avenue, bike lanes along Peachtree Street, or cycle tracks along Courtland Street and Piedmont Avenue.

East of Piedmont Avenue, bicyclists will be able to use a bike lane to ride to the Civic Center, Georgia Power Headquarters, Atlanta Medical Center, the Old Fourth Ward neighborhood, the Atlanta BeltLine Eastside Trail, and the Freedom Parkway Trail.

Facility Design

With the exception of a buffered bike lane along a one-block stretch of Ralph McGill Boulevard, this corridor is proposed to be served exclusively with bike lanes. Limited street width along the corridor precludes more protected facility types like cycle tracks.

This corridor will be the least expensive and easiest to implement due to the relative simplicity of roadway modifications. Most of the route will require re-configuring travel lanes to provide bike lanes.

The intersections along the corridor are also relatively simple to modify to serve vehicles and cyclists, with the exception of the Ralph McGill-Peachtree-Peachtree Center Avenue-Courtland intersection. For details about this intersection, see the Corridor A chapter.

Corridor C Core and Alternative Routes

Corridor Length

4.5 miles
30 minutes by bike

Major Destinations

Atlanta BeltLine
Georgia World Congress Center
Georgia Aquarium
Atlanta Civic Center
Georgia Power Headquarters
Atlanta Medical Center
Historic Fourth Ward Park
Jimmy Carter Library and Museum
Eastside Trail
Freedom Parkway Trail

MARTA Stations

Civic Center

Neighborhoods

Bankhead
Grove Park
Hunter Hills
Washington Park
English Avenue
Vine City
Downtown
Old Fourth Ward
Poncey-Highland

NPU

K
L
M
N

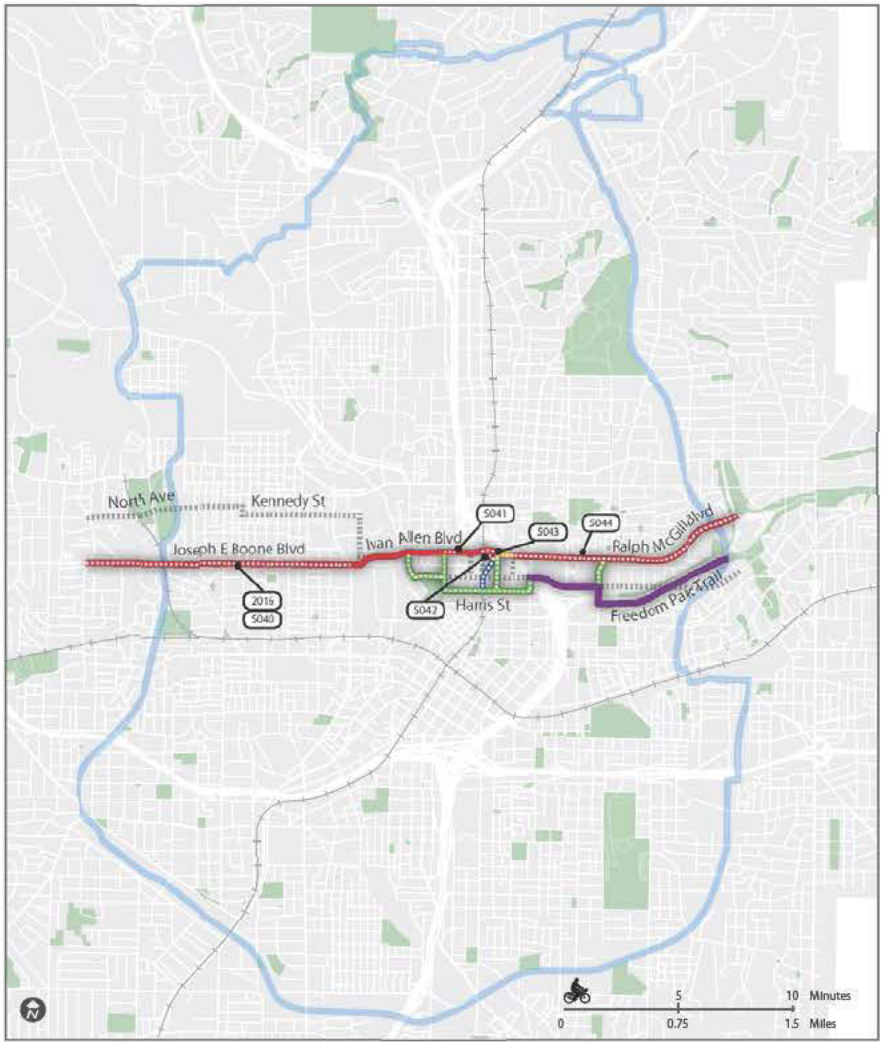
Council Districts

2
3

Relevant Plans

Atlanta BeltLine Subarea 10 Master Plan
Atlanta BeltLine Subarea 5 Master Plan
Vine City/Washington Park LCI
Georgia World Congress Center Master Plan
Old Fourth Ward Master Plan
Imagine Downtown: ENCORE LCI

Corridor C Network Design Map



Corridor C Projects

The projects listed in the table below are the projects currently programmed for construction along the corridor, as well as new projects proposed as part of the *Cycle Atlanta: Phase 1.0 Study*. Facility type, the street that the project applies to, a description of the start and end points for the projects, and a summary cost estimate are provided. Additional project cost information is provided in the Appendix for each project.

ID	Facility Type	Street	To	From	Cross Section(s)	Cost
2016	Bike Lane	Joseph E Boone Boulevard	Holly Street	Northside Drive		n/a
5040	Bike Lane	Joseph E Boone Boulevard	Chappell Road	Northside Drive	C1, C11, C12	$216,799
5041	Bike Lane	Ivan Allen Jr Boulevard	Centennial Olympic Park Drive	Williams Street	C3	$16,832
5042	Contra-Flow Lane	Porter Place	West Peachtree Street	Peachtree Street	C14	$4,278
5043	Bike Lane-Bufferd Bike Lane	Ivan Allen Jr Boulevard-Ralph McGill Boulevard	West Peachtree Street	Courtland Street	C13	$40,554
5044	Bike Lane	Ralph McGill Boulevard	Courtland Street	Freedom Parkway	C5, C6, C7, C8, C9, C10	$604,419

Notes

1. 1000 series: Facilities to be built in 2013

2. 2000 series: Facilities to be built in 2014

3. 3000 series: Facilities to be built in 2015

4. 4000 series: Unfunded high-priority projects we hope to fund by 2016

5. 5000 series: Facilities developed as part of the *Cycle Atlanta: Phase 1.0 Study*; 5000 - 5019 is for Corridor A projects, 5020 - 5039 is for Corridor B projects, 5040 - 5059 is for Corridor C projects, 5060 - 5079 is for Corridor D projects, and 5080 - 5099 is for Corridor E projects

6. Cost estimates include an estimate of probable cost for construction, design cost (25% of construction cost), and contingency cost (20% of construction costs). Construction costs can include re-striping costs, signal improvements, new pavement markings, and multi-use path construction. Construction costs do not include resurfacing costs. Cost estimates for 1000 to 4000 series projects are not provided because they have already been funded, are in the process of being designed, or are in the process of being constructed.

Corridor C Design Schematics

The cross sections, plan concepts, and accompanying notes provide a description for the design of the proposed facilities along the corridor. A typical cross section has been developed for every segment of the corridor where a facility is proposed as part of the *Cycle Atlanta: Phase 1.0 Study* and where projects have been programmed but the facility design has not been finalized. Cross sections were not developed for corridor segments that already have a facility, where the facility has already been programmed for construction, or where the facility has already been designed through another project or planning effort.

The typical cross sections and plan concepts form the basis for the cost estimates presented on the previous page. Each project consists of one or more cross section or plan concept segments. The design schematics were used to provide details about facility design for projects, particularly where cross sections change along the corridor or intersection design is more complex.

The legend below provides a summary of the different symbols and line types used to describe existing conditions or proposed features along the corridor.

Design Schematics Legend

EXISTING BIKE FACILITIES

- Shared Lane Marking
- Bike Lane
- Multi-Use Path

PROPOSED BIKE FACILITIES

- Shared Lane Marking
- Bike Lane
- Multi-Use Path
- Bike Boulevard
- Buffered Bike Lane
- Protected Cycle Track
- Alternative Facility Options
- Raised Cycle Track

STUDY FOCUS FEATURES

- Core Study Corridor
- Alternative Study Corridor
- Atlanta BeltLine Corridor
- MARTA Rail Station

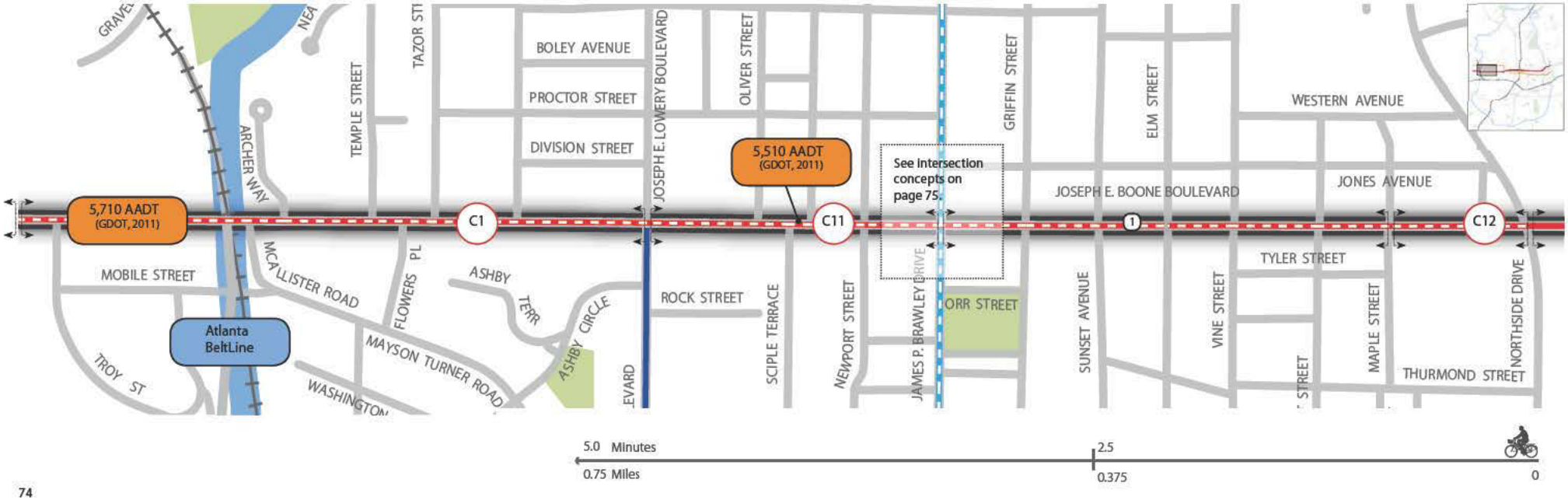
ANNOTATION SYMBOLS

- Cross Section Application Location
- Map Annotation
- Cross Section Segment To/From Point
- Corridor Connection to Atlanta BeltLine
- Annual Average Daily Traffic

Cross Section ID	Cross Section	Street	From	To	Existing Vehicular Lanes	Proposed Vehicular Lanes	Notes
C1	BIKE LANES 	Joseph E. Boone Boulevard	Chappell Road	Joseph E. Lowery Boulevard	3	2	2 travel lanes
C11	BIKE LANES 	Joseph E. Boone Boulevard	Joseph E. Lowery Boulevard	James P Brawley Drive	4	3	2 travel lanes; center turn lane
C12	BIKE LANES 	Joseph E. Boone Boulevard	Maple Street	Northside Drive	4	3	Cross section to be added; 2 travel lanes; center turn lane

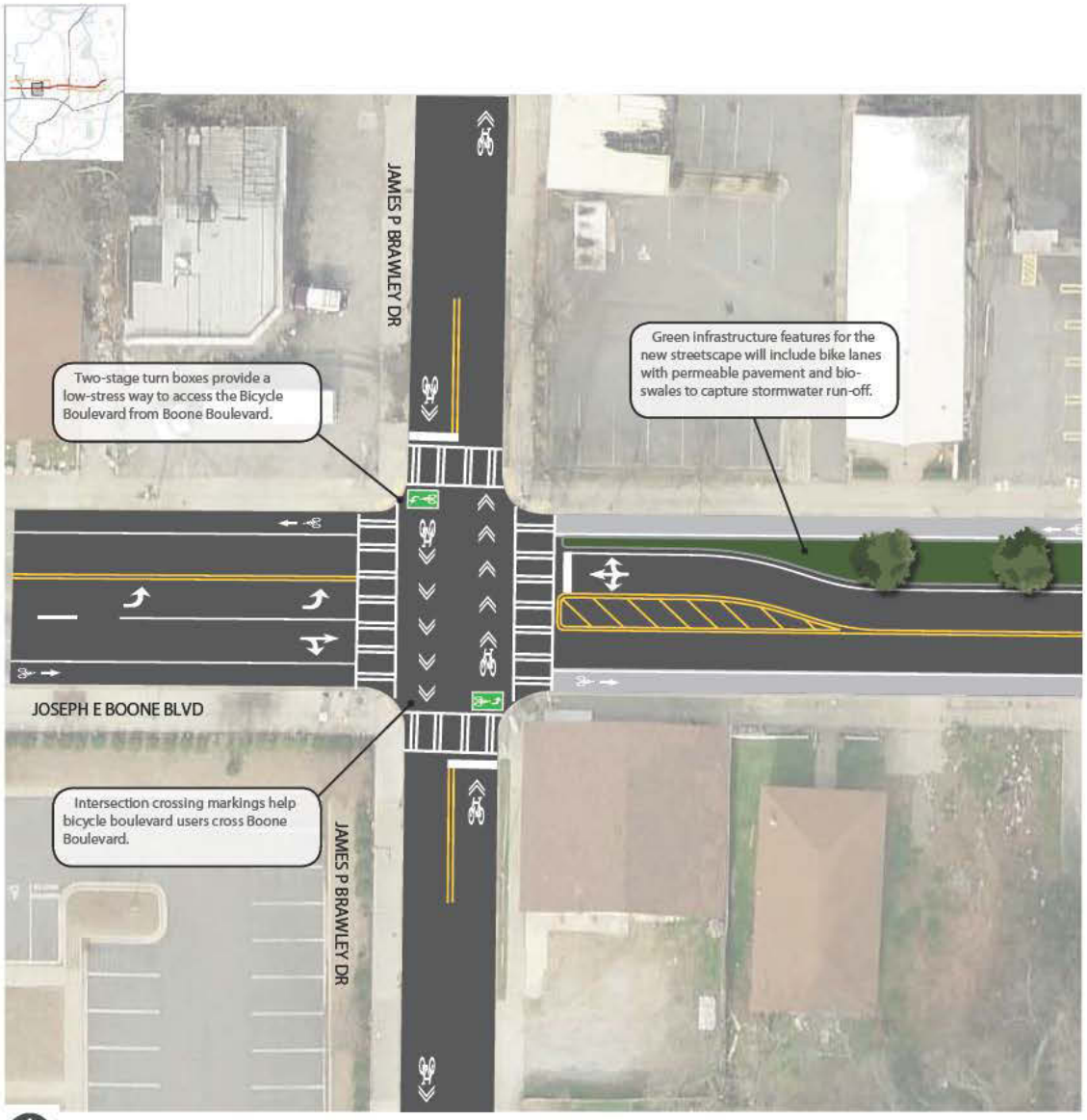
Additional Notes

1 The Department of Watershed Management is constructing a "green street" along Joseph E. Boone Boulevard from James P. Brawley Drive to Maple Street. The new streetscape will include sidewalks, bicycle lanes, and bio-swales to manage stormwater run-off.



Boone Blvd. and JP Brawley Intersection Concept

Overview



This image is not to scale and is presented for illustrative purposes only.

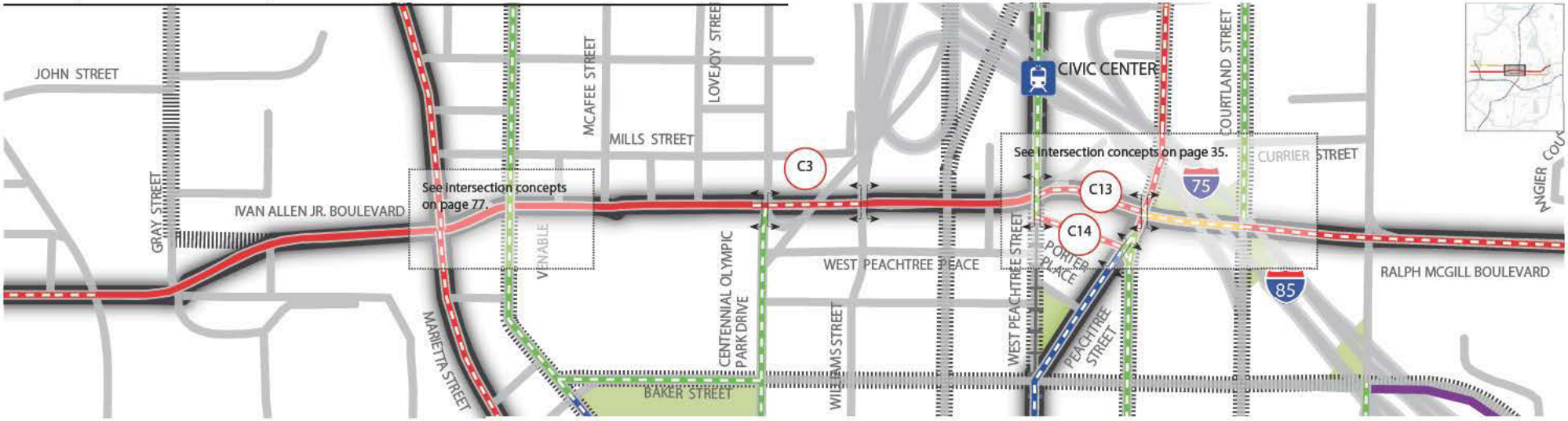
Concept Summary

The intersection of James P. Brawley Drive and Joseph E. Boone Boulevard is an important connection point in the bikeway network west of Downtown. The proposed bicycle boulevard along Brawley, when completed, will connect the Atlanta University Center (AUC) to Georgia Tech and the Marietta Street corridor. Additionally, the proposed bike lane improvements along Boone Boulevard will provide route options to the Atlanta BeltLine and Downtown.

The intersection treatments used will help bicyclists more easily navigate the intersection and alert drivers that they should anticipate additional bicycle traffic. The treatments also illustrate how the green infrastructure streetscape is being constructed along Boone Boulevard to the east of the intersection.

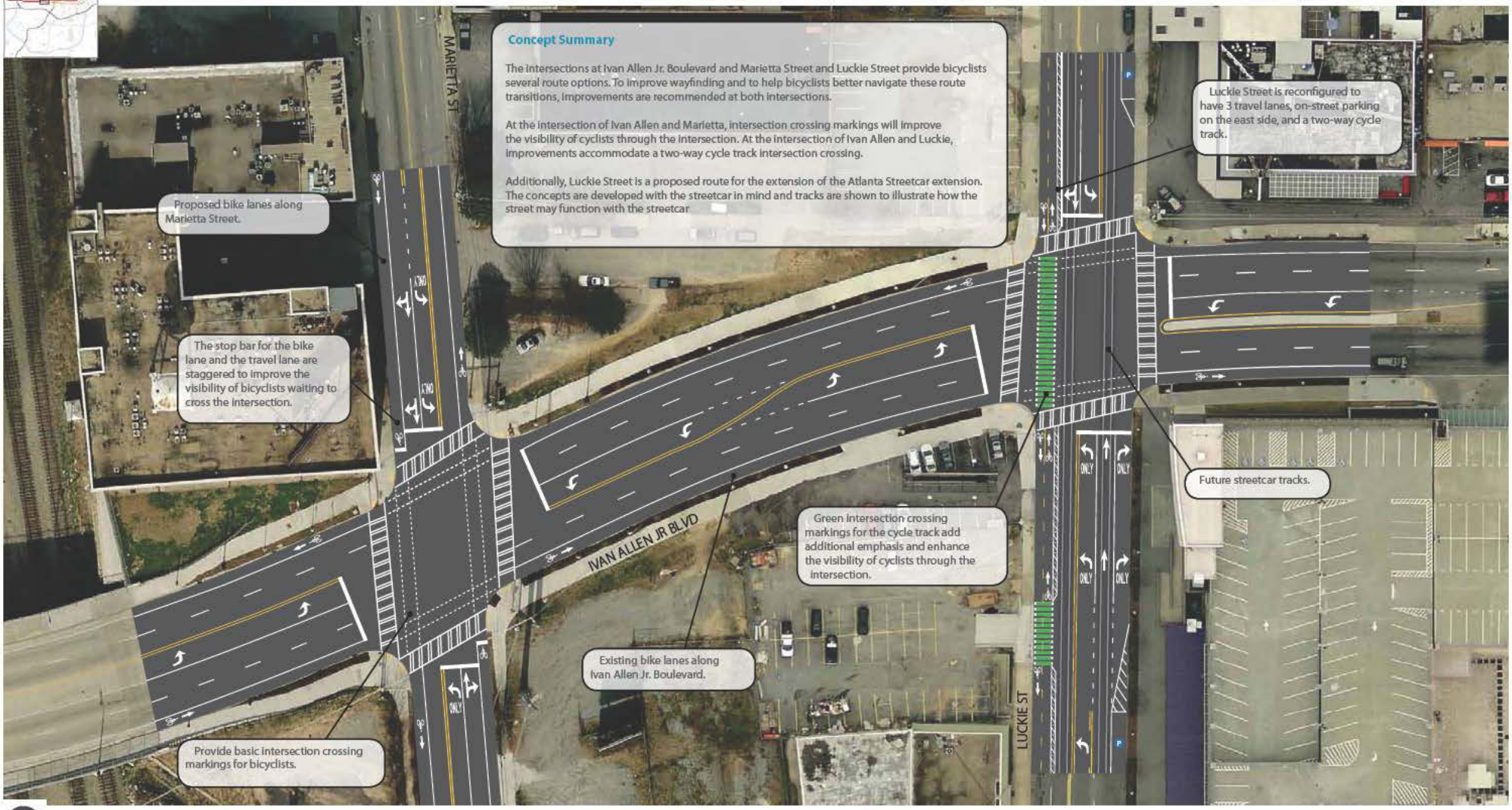
Cross Section ID	Cross Section	Street	From	To	Existing Vehicular Lanes	Proposed Vehicular Lanes	Notes
C3	DOWNHILL SHARED LANE MARKINGS / UPHILL BIKE LANE  	Ivan Allen Jr. Boulevard	Centennial Olympic Park Drive	Williams Street	4	4	4 travel lanes
C13	BIKE LANES  	Ivan Allen Jr. Boulevard	West Peachtree Street	Peachtree Street	4	3	2 travel lanes; center turn lane

Cross Section ID	Cross Section	Street	From	To	Existing Vehicular Lanes	Proposed Vehicular Lanes	Notes
C6	SHARED LANE MARKINGS / CONTRA FLOW BIKE LANE  	Porter Place	West Peachtree Street	Peachtree Street	1	1	1 travel lane



Ivan Allen Jr. Blvd at Marietta St. and Luckie St. Intersection Concepts

Overview



This image is not to scale and is presented for illustrative purposes only.

Cross Section ID	Cross Section	Street	From	To	Existing Vehicular Lanes	Proposed Vehicular Lanes	Notes
C4	CYCLE TRACKS 	Ralph McGill Boulevard	Peachtree Street	Courtland Street	4	3	3 travel lanes Two travel lanes are eastbound and one travel lane is westbound. See Peachtree-Ralph McGill-Peachtree Center-Courtland Intersection Concepts in Corridor A chapter for more details.
C5	BIKE LANES 	Ralph McGill Boulevard	Courtland Street	Piedmont Avenue	4	3	2 travel lanes; center turn lane

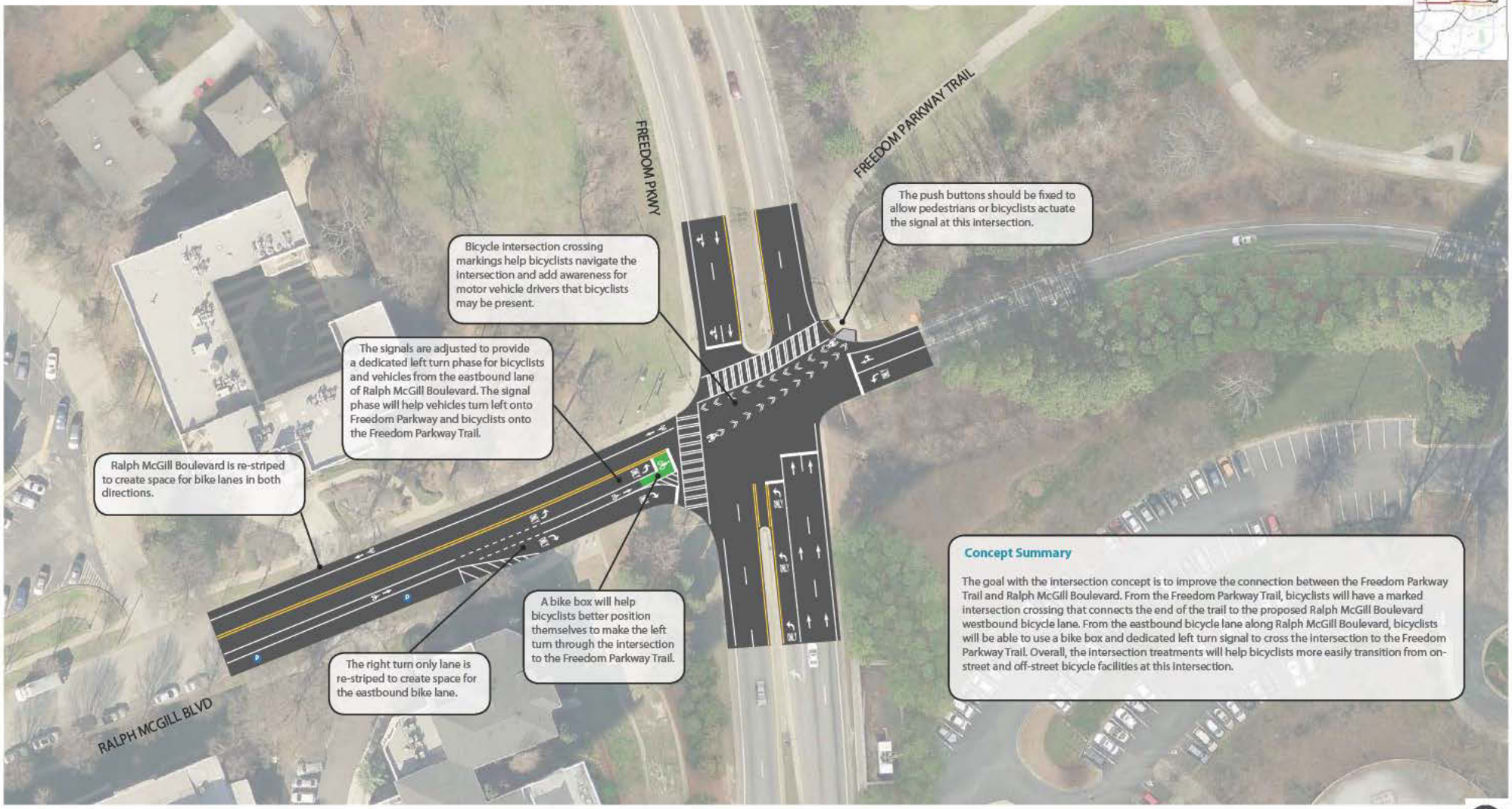
Cross Section ID	Cross Section	Street	From	To	Existing Vehicular Lanes	Proposed Vehicular Lanes	Notes
C6	BIKE LANES 	Ralph McGill Boulevard	Piedmont Avenue	Central Park Place	4	3	2 travel lanes; center turn lane Parking lane is 10' to accommodate GRTA bus layover parking.

Cross Section ID	Cross Section	Street	From	To	Existing Vehicular Lanes	Proposed Vehicular Lanes	Notes
C7	BIKE LANES 	Ralph McGill Boulevard	Central Park Place	Midblock between Boulevard and Glen Iris Drive	4	3	2 travel lanes; center turn lane The center turn lane may need to be dropped to accommodate residential on-street parking. A parking study should be conducted to determine on-street parking needs.
C8	BIKE LANES 	Ralph McGill Boulevard	Midblock between Boulevard and Glen Iris Drive	Wabash Avenue	3	2	2 travel lanes; center turn lane

Cross Section ID	Cross Section	Street	From	To	Existing Vehicular Lanes	Proposed Vehicular Lanes	Notes
C9	BIKE LANES 	Ralph McGill Boulevard	Wabash Avenue	Ashley Avenue	4	3	2 travel lanes; center turn lane
C10	BIKE LANES 	Ralph McGill Boulevard	Ashley Avenue	Freedom Parkway	3	2	2 travel lanes

Ralph McGill Boulevard at Freedom Parkway Intersection Concept

Overview



Concept Summary

The goal with the intersection concept is to improve the connection between the Freedom Parkway Trail and Ralph McGill Boulevard. From the Freedom Parkway Trail, bicyclists will have a marked intersection crossing that connects the end of the trail to the proposed Ralph McGill Boulevard westbound bicycle lane. From the eastbound bicycle lane along Ralph McGill Boulevard, bicyclists will be able to use a bike box and dedicated left turn signal to cross the intersection to the Freedom Parkway Trail. Overall, the intersection treatments will help bicyclists more easily transition from on-street and off-street bicycle facilities at this intersection.

This image is not to scale and is presented for illustrative purposes only.

Corridor D. Mozley Park – Downtown – Grant Park

ML King Jr. Dr. – Woodward Ave.

Overview

Corridor D is the second shortest Cycle Atlanta corridor and one of three corridors that runs exclusively from west to east. It also connects two Cycle Atlanta corridors including Corridor A and Corridor E. Like Corridor C, Corridor D is largely residential east and west of Downtown. In Downtown, the corridor connects to the Georgia Dome MARTA station, City Hall, and the State Capitol, as well as bike route options to Midtown or the business and tourist destinations.

Network Design

Along the western portion of the corridor, bicyclists will have parallel route options. The Westside Trail will provide users with a protected bike facility along Lee Street and shared lane markings and bike lanes will be installed along Martin Luther King Jr. Drive and Mitchell Street. Both routes connect to the James P. Brawley bike boulevard that connects the Atlanta University Center to Vine City, English Avenue, and ultimately the Marietta Street corridor.

Once in Downtown, people will be able to use the Westide Trail to connect to the Georgia Dome, Marietta Street, and the Centennial Olympic Park area. Bicyclists will also be able to connect to the civic and commercial destinations along the Mitchell Street bike lanes that extend from Castleberry Hills to City Hall and the Georgia State Capitol.

From the Georgia State Capitol, bicyclists will be able to take a multi-use path between Capital Avenue and Memorial Drive to connect to the Woodward Avenue bike boulevard. Currently, this bike boulevard will extend from Memorial Drive to Chastain Street. This corridor will lengthen when the industrial properties between Chastain Street and Bill Kennedy Way/BeltLine redevelop; BeltLine plans include a recommendation to extend Woodward Avenue to Bill Kennedy Way/BeltLine. This new street will provide a direct connection to the BeltLine.

Facility Design

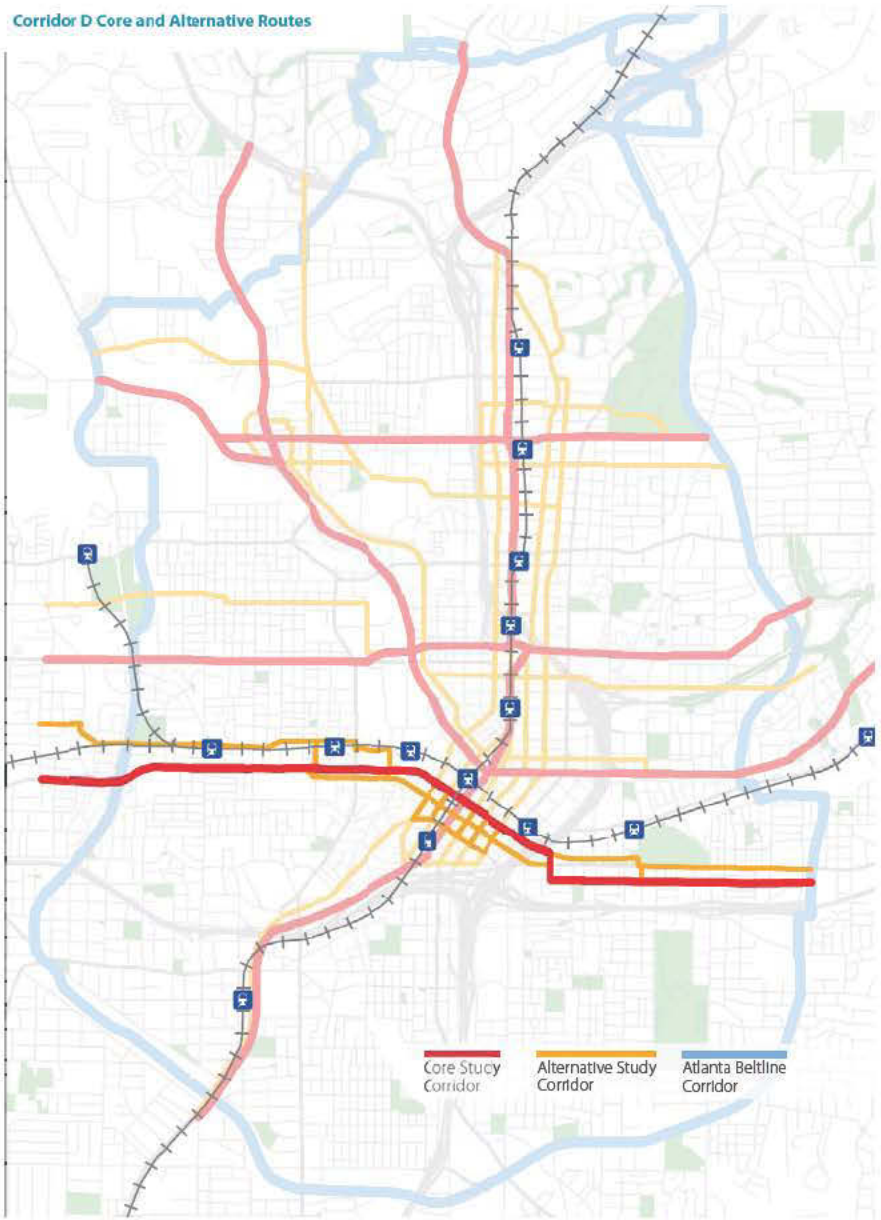
The low-stress facilities along this corridor include the Westside Trail and the short multi-use path segment from the Georgia State Capitol to the Woodward Avenue bike boulevard. Both multi-use paths are planned to run adjacent to the streets they parallel and will not require the removal of a travel lane to implement.

For the stretch of the corridor along Martin Luther King Jr. Boulevard from the BeltLine to Brawley, the available street width prevents dedicated bicycle space on the street. To balance vehicular capacity and bicycle mobility, shared lane markings will be used along this section of the corridor.

From James P. Brawley along Martin Luther King Jr. Boulevard/Mitchell Street to Capital Avenue, cyclists will be able to use bike lane. Along this route, traffic volumes and street widths are compatible with installing a bike lane to be installed.

On the eastern side of the corridor, the Woodward Avenue bike boulevard will provide a low-stress alternative to riding along Memorial Drive. Several design strategies will be used at intersections to manage vehicular volumes and speeds while minimizing interruptions in bicyclist travel along the route. These treatments reduce the travel time along the bike boulevard and thereby increase the convenience of using the route for bicyclists.

Corridor D Core and Alternative Routes



Corridor Length

4.3 miles
28 minutes by bike

Major Destinations

Atlanta BeltLine
Washington Park
Booker T. Washington High School
Atlanta University Center
Georgia Dome - Georgia World Congress Center-Phillips Arena-CNN Center
US District Court Clerk
Fulton County Government Center
City of Atlanta City Hall
Georgia State Capital
Capital Gateway
Oakland Cemetery

MARTA Stations

Ashby
Vine City
Georgia Dome

Neighborhoods

Hunter Hills
Mozley Park
Washington Park
Just Us
Ashview Heights
Vine City
Atlanta University Center
Castleberry Hills
Downtown
Capital Gateway
Grant Park

NPU

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Council Districts

1
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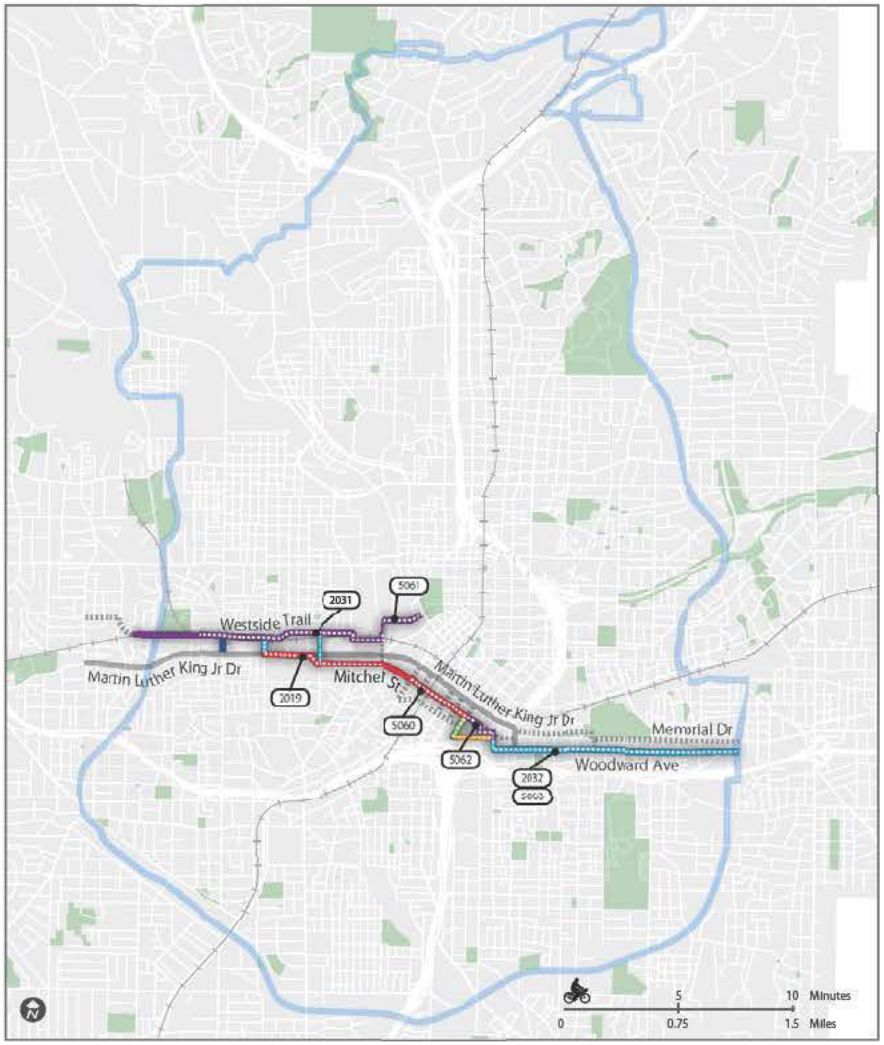
Relevant Plans

Atlanta BeltLine Subarea 10 Master Plan
Atlanta BeltLine Subarea 4 Master Plan
Vine City/Washington Park LCI
Georgia World Congress Center Master Plan
Imagine Downtown: ENCORE LCI
Memorial Drive LCI

Corridor D Network Design Map



Corridor D Projects

The projects listed in the table below are the projects currently programmed for construction along the corridor as well as new projects proposed as part of the *Cycle Atlanta: Phase 1.0 Study*. Facility type, the street that the project applies to, a description of the start and end points for the projects, and a summary cost estimate are provided. Additional project cost information is provided in the Appendix for each project.

ID	Facility Type	Street	To	From	Cross Section(s)	Cost
2019	Bike Lane	Martin Luther King Jr. Drive-Mitchell Street	James P Brawley Drive	Magnum Street		n/a
2031	Hard Surface Multi-Use Path	Lena Street	Booker Street	Magnum Street		n/a
2032	Bike Boulevard	Fraser Street-Woodward Avenue	Memorial Drive	Chastain Street		n/a
5060	Bike Lane	Mitchell Street	Spring Street	Washington Street	D4	$72,710
5061	Multi-Use Path	Andrew Young International Boulevard	Georgia Dome Drive	Marietta Street		n/a; See design schematics for details.
5062	Multi-Use Path	Capital Avenue-Memorial Drive	Washington Street	Fraser Street		n/a; See design schematics for details.
5063	Bike Boulevard	Fraser Street-Woodward Avenue	Memorial Drive	Bill Kennedy Way	D5, D6	$141,042

Notes

1. 1000 series: Facilities to be built in 2013

2. 2000 series: Facilities to be built in 2014

3. 3000 series: Facilities to be built in 2015

4. 4000 series: Unfunded high-priority projects we hope to fund by 2016

5. 5000 series: Facilities developed as part of the *Cycle Atlanta: Phase 1.0 Study*; 5000 - 5019 is for Corridor A projects, 5020 - 5039 is for Corridor B projects, 5040-5059 is for Corridor C projects, 5060 - 5079 is for Corridor D projects, and 5080 - 5099 is for Corridor E projects

6. Cost estimates include an estimate of probable cost for construction, design cost (25% of construction cost), and contingency cost (20% of construction costs). Construction costs can include re-striping costs, signal improvements, new pavement markings, and multi-use path construction. Construction costs do not include resurfacing costs. Cost estimates for 1000 to 4000 series projects are not provided because they have already been funded, are in the process of being designed, or are in the process of being constructed.

Corridor D Design Schematics

The cross sections, plan concepts, and accompanying notes provide a description for the design of the proposed facilities along the corridor. A typical cross section has been developed for every segment of the corridor where a facility is proposed as part of the *Cycle Atlanta: Phase 1.0 Study* and where projects have been programmed but the facility design has not been finalized. Cross sections were not developed for corridor segments that already have a facility, where the facility has already been programmed for construction, or where the facility has already been designed through another project or planning effort.

The typical cross sections and plan concepts form the basis for the cost estimates presented on the previous page. Each project consists of one or more cross section or plan concept segments. The design schematics were used to provide details about facility design for projects, particularly where cross sections change along the corridor or intersection design is more complex.

The legend below provides a summary of the different symbols and line types used to describe existing conditions or proposed features along the corridor.

Design Schematics Legend

EXISTING BIKE FACILITIES

- Shared Lane Marking
- Bike Lane
- Multi-Use Path

PROPOSED BIKE FACILITIES

- Shared Lane Marking
- Bike Lane
- Multi-Use Path
- Bike Boulevard
- Buffered Bike Lane
- Protected Cycle Track
- Alternative Facility Options
- Raised Cycle Track

STUDY FOCUS FEATURES

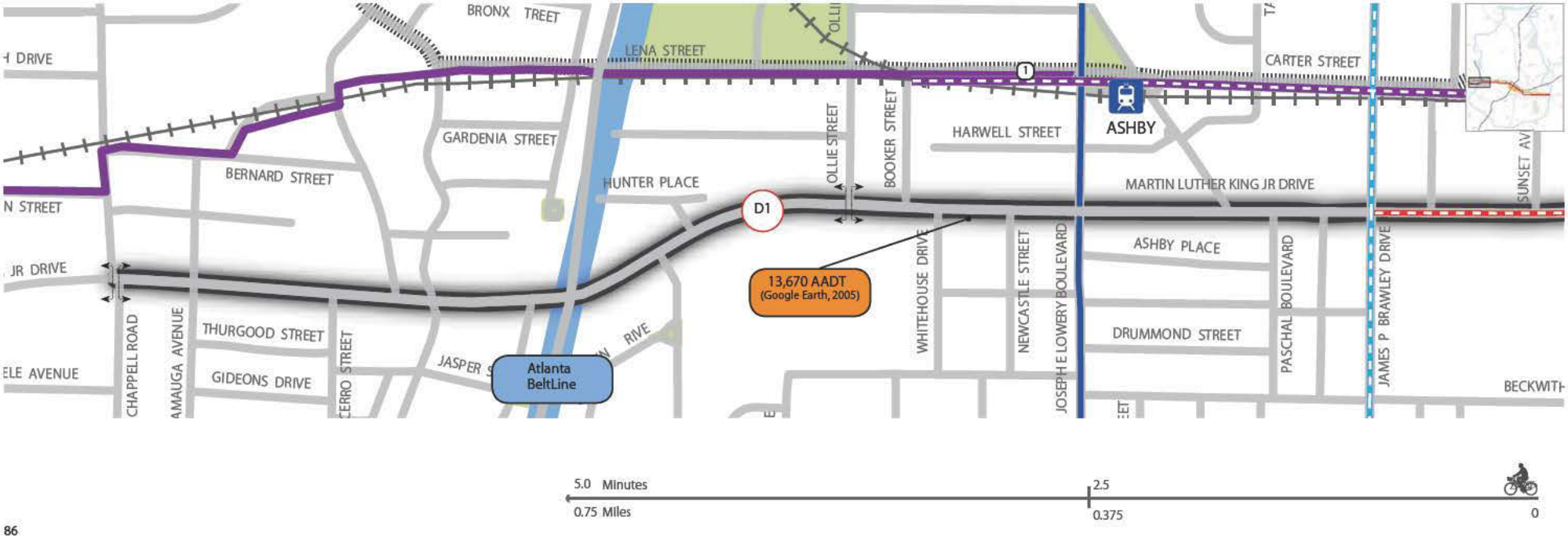
- Core Study Corridor
- Alternative Study Corridor
- Atlanta BeltLine Corridor
- MARTA Rail Station

ANNOTATION SYMBOLS

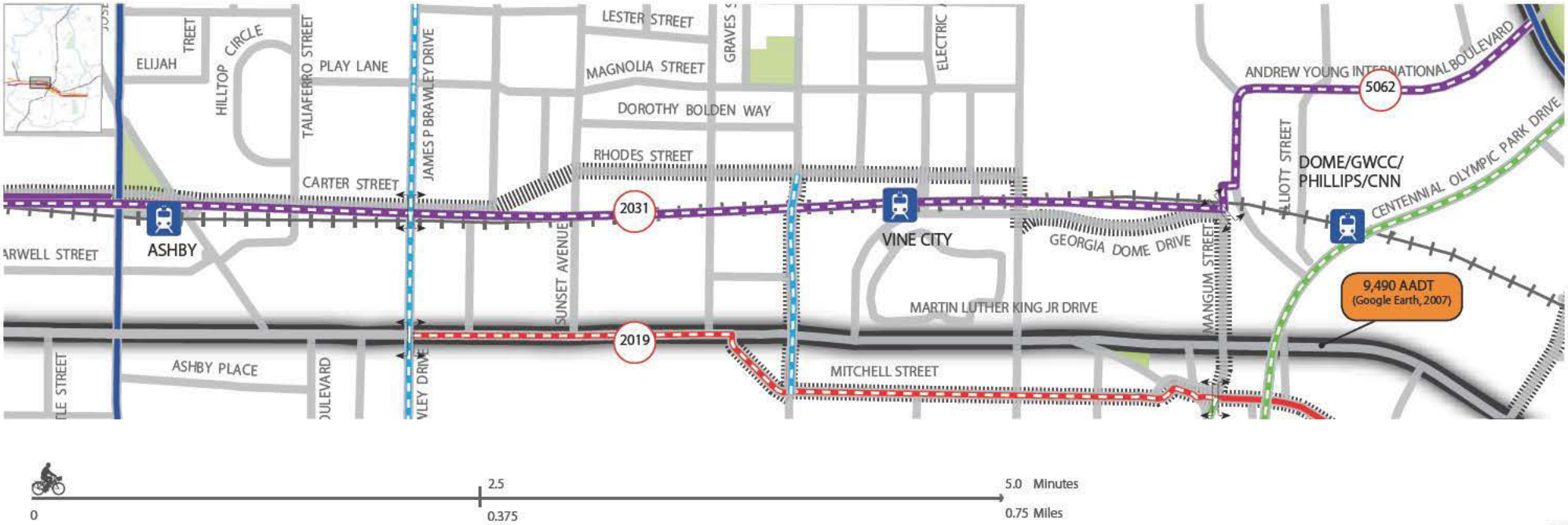
- Cross Section Application Location
- Map Annotation
- Cross Section Segment To/From Point
- Corridor Connection to Atlanta BeltLine
- Annual Average Daily Traffic

Cross Section ID	Cross Section	Street	From	To	Existing Vehicular Lanes	Proposed Vehicular Lanes	Notes
D1	PAVED SHOULDERS 	Martin Luther King Jr. Drive	Chappell Road	Ollie Street	4	3	2 travel lanes; center turn lane No bikeway facility Re-striping should create a paved shoulder. Long-term, the paved shoulder will be re-purposed as sidewalk in order to widen the sidewalk.

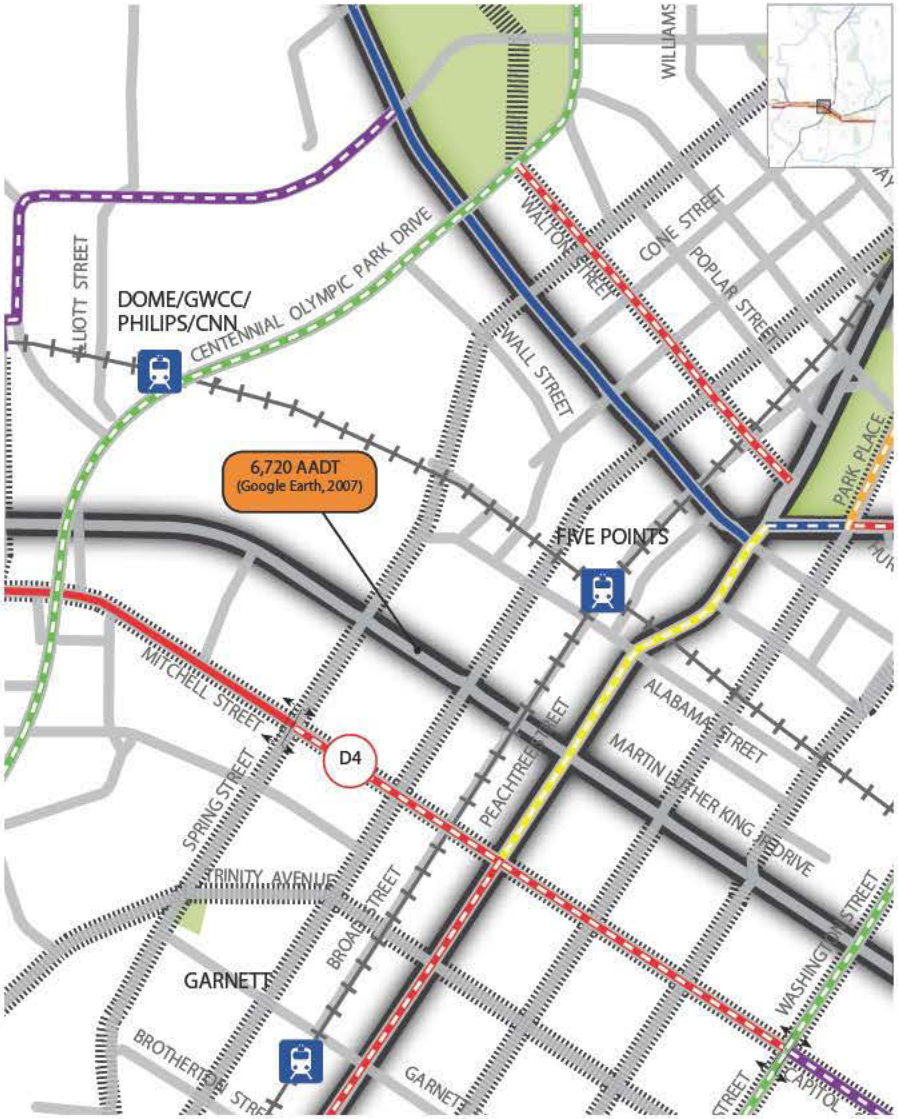
Additional Notes	
1	From Chappell Road to Walnut Street, the Westside Trail will serve as the primary bikeway facility along this corridor. From Walnut Street, cyclists will be able to continue along the proposed Westside Trail to Centennial Olympic Park or use Walnut Street to connect to the proposed bike lanes along Mitchell Street.



ID	Facility Type	Street	To	From	Notes
2019	Bike Lane	Martin Luther King Jr Drive-Mitchell Street	James P Brawley Drive	Magnum Street	This project is funded and is in the process of being designed and constructed. Because it is already being implemented, a cross-section was not developed for this project.
2031	Hard Surface Multi-Use Path	Lena Street	Booker Street	Magnum Street	This project is funded and is in the process of being designed and constructed. Because it is already being implemented, a cross-section was not developed for this project.
5062	Multi-Use Path	Andrew Young International Boulevard	Georgia Dome Drive	Marietta Street	The connection from the Westside Trail to Centennial Olympic Park has been proposed in previous plans. However to complete this connection, several design considerations will need to be resolved including overcoming the significant grade change from Magnum Street to Marietta Street. Because of this consideration and the potential relocation of the Georgia Dome, the scope and design for this project was not developed as part of this project. As the Georgia Dome site is redeveloped, the City of Atlanta should work the Georgia World Congress Center, the PATH Foundation, and others to complete this connection.



Cross Section ID	Cross Section	Street	From	To	Existing Vehicular Lanes	Proposed Vehicular Lanes	Notes
D4	BIKE LANES 	Mitchell Street	Spring Street	Washington Street	3	2	2 travel lanes To implement this cross section, Mitchell Street must be converted from a one-way street to a two-way street. The Mitchell Street conversion should also be paired with a one-way to two-way conversion of MLK Jr. Drive. Additionally, these conversions should be coordinated with the vehicle access closure of Capitol Square.



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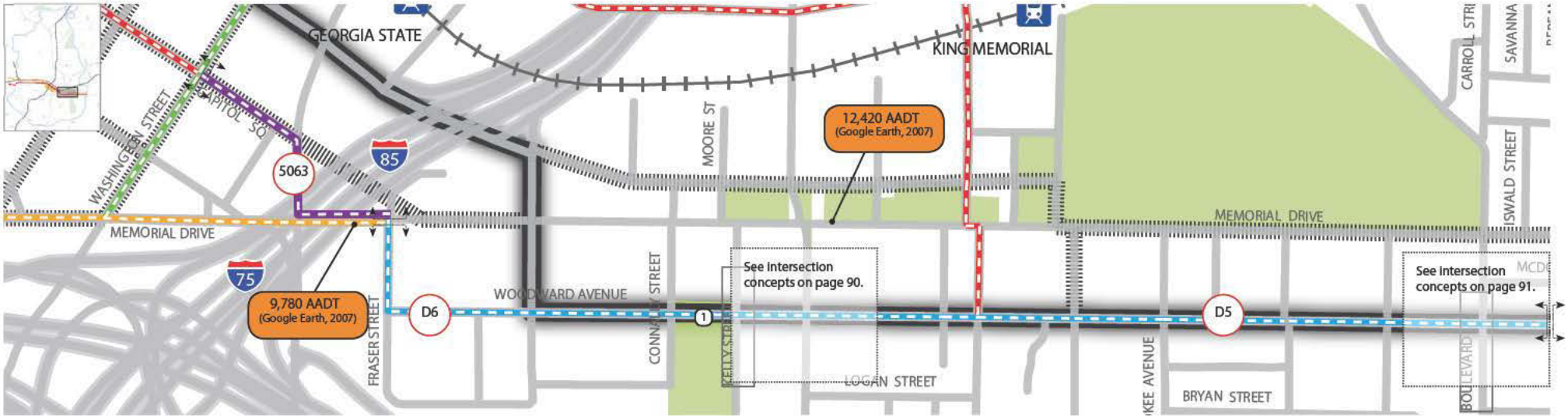
Cross Section ID	Cross Section	Street	From	To	Existing Vehicular Lanes	Proposed Vehicular Lanes	Notes
D5	SHARED LANE MARKETINGS NO LANE STRIPING 32-34' ROADWAY WIDTH	Woodward Avenue	Kelly Street	Chastain Street	2	2	2 travel lanes
D6	SHARED LANE MARKINGS NO LANE STRIPING 36' ROADWAY WIDTH	Woodward Avenue	Memorial Drive	Connally Street	2	2	2 travel lanes

ID	Facility Type	Street	To	From	Notes
5063	Multi-Use Path	Capitol Square-Memorial Drive	Washington Street	Fraser Street	With the conversion of Capitol Square between Washington Street and Capitol Avenue to a bicycle and pedestrian only street, there is the potential to create a multi-use path connection between the Washington Street and Mitchell Street bikeway facilities and the proposed Woodward Avenue Bicycle Boulevard. There are several alignment options including re-purposing the existing sidewalk along Capitol Avenue and Memorial Drive as a multi-use path. There is also an opportunity to run a multi-use path through the parking lot over the interstate between Mitchell Street and Fraser Street. Because of these options, this alignment requires additional consideration that is beyond the scope of this project. The City of Atlanta should work with the Georgia Department of Transportation and others to develop a feasible alignment for this connection.

Additional Notes

1	Work with the Department of Parks, Recreation and Cultural Affairs to remove fencing, install wayfinding, and improve multi-use path conditions between Connally Street and Kelly Street. This segment is currently fenced off but is owned by the City of Atlanta.



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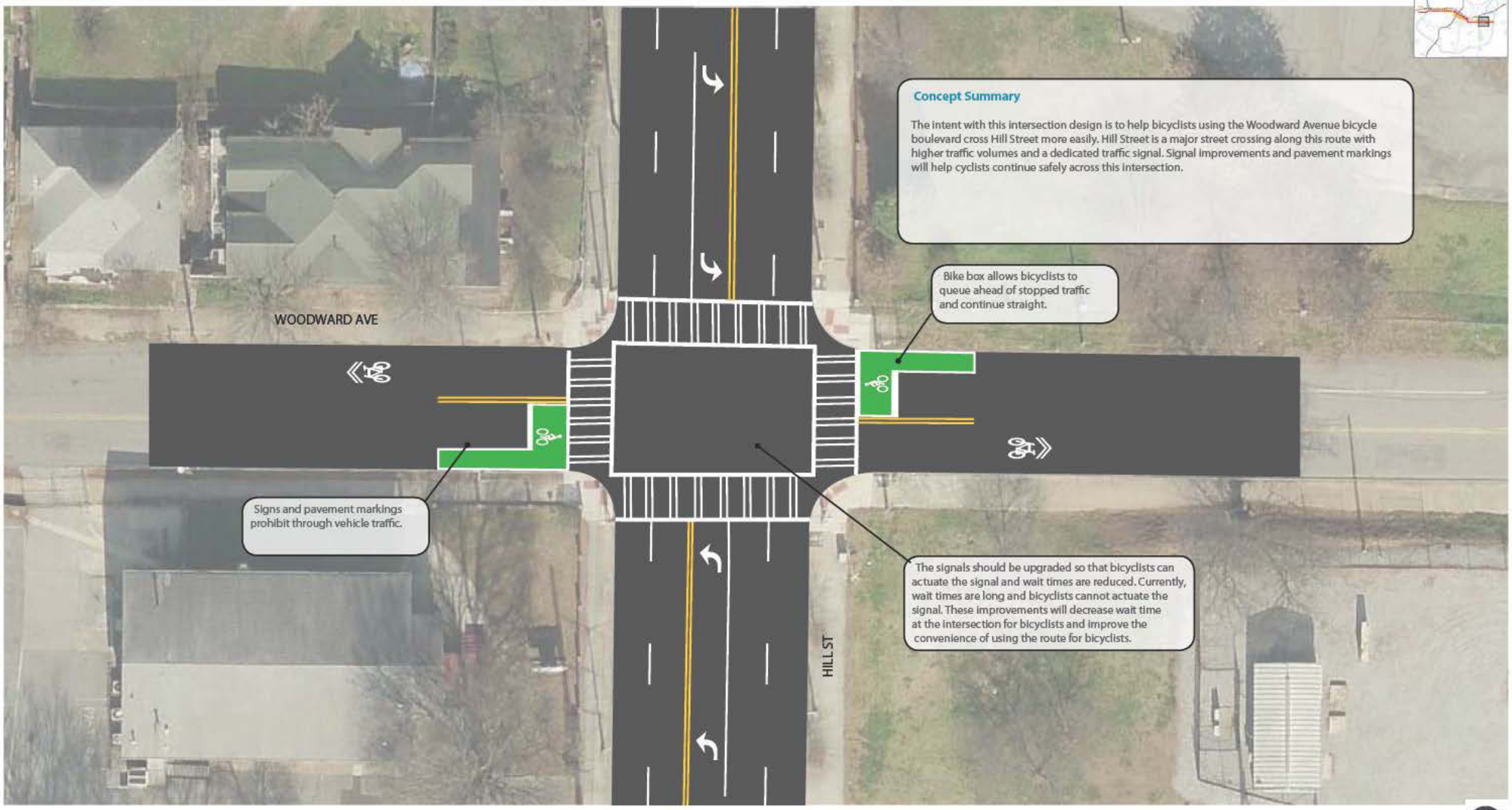
Woodward Ave and Hill St Intersection Concept

Overview



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Woodward Ave and Boulevard Intersection Concept

Overview

Concept Summary

The goal with this concept is to improve safety for bicyclists and pedestrians crossing Boulevard. The intersection is currently unsignalized, traffic volumes are high, and vehicular speeds are high along Boulevard, making it difficult for bicyclists and pedestrians to cross safely. To upgrade the intersection with safety measures, several design features are proposed including a new signal, a protected through bicycle lane, and pavement markings and signage that limit through vehicular traffic.

On-street parking should be shifted away from the intersection to allow vehicles to safely turn onto Woodward Avenue.

New traffic signal or hybrid beacon to be installed to facilitate bicyclist and pedestrian crossings.

Protected through bicycle lane provides a comfortable waiting area for through bicyclists. Maximum width for facility should be 10'.

Centerline to be removed.

Right turn only lane forces cars to turn onto Boulevard.

Woodward Avenue travel lanes at the intersection should be 11'. Cross section should be 11' travel lane, 10' protected bicycle lane, and 11' travel lane. Total width of Woodward Avenue at the intersection is 32'.

BOULEVARD

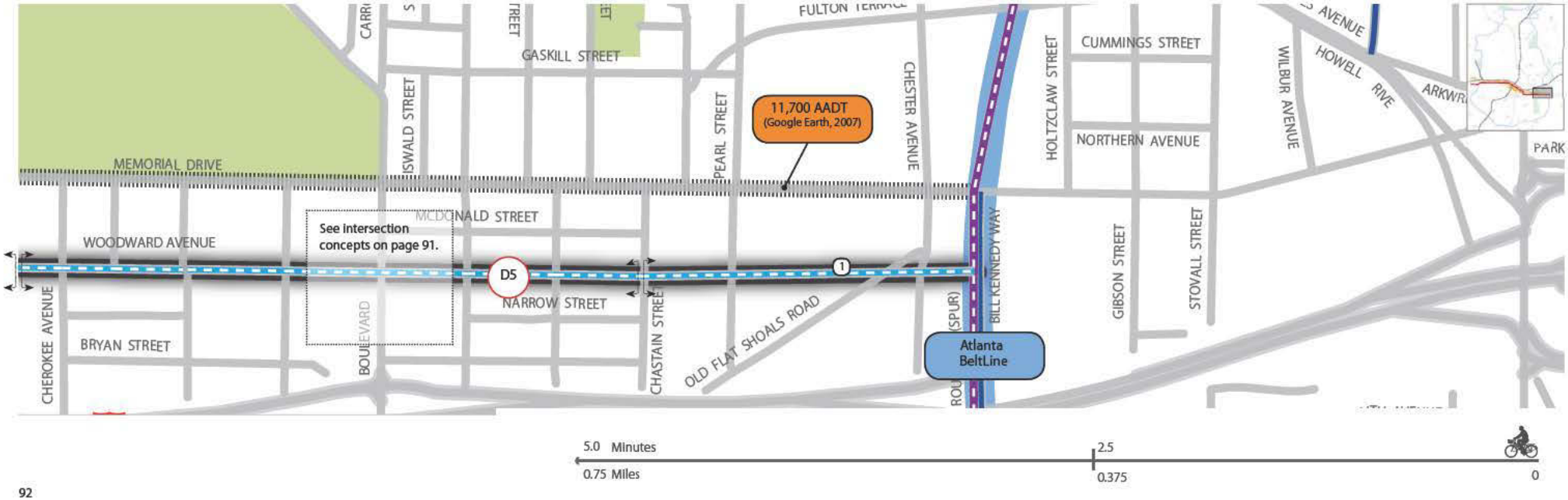
WOODWARD AVE

A protected through bicycle lane provides a waiting space for bicyclists at this intersection while also managing through vehicular traffic volumes along this route by forcing vehicles to make a right turn only.

This image is not to scale and is presented for illustrative purposes only.

Cross Section ID	Cross Section	Street	From	To	Existing Vehicular Lanes	Proposed Vehicular Lanes	Notes
D5		Woodward Avenue	Kelly Street	Chastain Street	2	2	2 travel lanes

Additional Notes	
1	Currently, Woodward Avenue ends at Chastain Street. However, a new street is proposed to extend all the way to Bill Kennedy Way as part of the *Atlanta BeltLine Redevelopment Plan* and the *Atlanta BeltLine Subarea 4 Master Plan*. If the industrial properties redevelop, the bike boulevard should be extended along the new streets to Bill Kennedy Way and the Atlanta BeltLine. See *Atlanta BeltLine Subarea 4 Master Plan* for more details.



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Corridor E. Underwood Hills – Downtown – Candler Park

Howell Mill Rd – Marietta St – Edgewood Ave – Euclid Ave

Overview

Corridor E is the second longest Cycle Atlanta corridor and the only corridor to run both north to south and east to west. The corridor connects to three other Cycle Atlanta corridors including Corridor A, Corridor B and Corridor C.

The corridor connects the industrial areas and redeveloping areas along Howell Mill Road and Marietta Street to Georgia Tech and Downtown. From the east, the corridor connects the Little Five Points area and Inman Park to Sweet Auburn district, Georgia State University, the Atlanta Street Car and Downtown.

Network Design

Bike facilities are proposed to start at Howell Mill Road and Chattahoochee Avenue, rather than the start of the study corridor at Howell Mill Road and Interstate 75. This decision was made because Howell Mill would require a significant redesign to accommodate bike facilities. With multiple intersections, curb cuts, the interstate interchange, and high vehicular volumes, the stretch of Howell Mill Road from Chattahoochee Avenue to Collier Road is not ideal in its current configuration for cycling. Even though it is a low priority bike connection currently, it could be an important bike connection from Buckhead neighborhoods across the interstate. Future planning for this portion of the corridor should consider accommodating cyclists with dedicated bike facilities.

From the intersection of Howell Mill Road and Chattahoochee Avenue south to Marietta Street, the bike lanes along Howell Mill Road will be the only route option with dedicated bike facilities. At 8th Street and Hampton Street, people will have the option of continuing along Marietta using bike lanes, connect to Corridor B routes to Georgia Tech, or to the multi-use greenway along Tech Parkway.

From the intersection of Northside Drive and Marietta Street and Tech Parkway to Centennial Olympic Park, people will have parallel route options. Along Marietta Street, people will be able to continue south using bike lanes. Along Tech Parkway and Luckie Street, people will be able to use a protected facility.

Once to Centennial Olympic Park, people will be able to use a protected cycle track to navigate around the park to connect to the Westside Trail, the Centennial Olympic Park Drive cycle track, the John Portman Boulevard cycle track, the Walton Street contra-flow bike lane or continue into downtown along Marietta Street, which has shared lane markings along this section of the corridor.

When people get to Peachtree Street along Marietta Street or Walton Street, they will be able to connect to Georgia State University, the Five Points MARTA station or continue east along the Street Car route. To navigate along the Street Car route, people will be able to use an eastbound bike route along Auburn Avenue or a westbound bike route along Edgewood Avenue. Along this route, people will also be able to connect to the two-way cycle track along Peachtree Center Avenue and Gilmer Street.

East of the streetcar route, people will be able to use bike lanes along Edgewood Avenue to connect to the BeltLine, Inman Park and the Inman Park MARTA station. They will also be able to use Euclid Avenue to connect to Little Five Points, Freedom Parkway and Chandler Park.

Facility Design

The majority of the corridor is designed with bike lanes. Along Howell Mill Road and Marietta Street, the street right-of-way and vehicular volumes allow for lane reductions to accommodate the addition of bike lanes. The contra-flow bike lane along Walton Street can provide a "low stress" alternative to Marietta Street. Bike lanes along both sides of the street are also used along Edgewood Avenue to connect to Edgewood/Auburn Avenue area to Inman Park.

For the route along the Street Car route, the facilities are designed to minimize the safety issues associated with biking and streetcar tracks. Street car tracks are notoriously difficult to cross by bike. They have been known to cause bike crashes when bike wheels skip on the tracks or get stuck in the tracks. To minimize the conflict between the tracks and people biking, bike facilities are installed on the opposite side of the street to the streetcar route. This design strategy means that bike facilities going eastbound will only be available along Auburn Avenue and westbound along Edgewood Avenue.

The protected facilities along this corridor include Tech Parkway, Luckie Street and the route around Centennial Olympic Park.

Several intersection designs are also developed for this corridor. They include Luckie Street from North Avenue and Tech Parkway to Luckie Street and Pine Street, Luckie Street and Ivan Allen Jr. Boulevard, the routes around Centennial Olympic Park, the intersection of Euclid Avenue and Edgewood and the intersection of Euclid Avenue and Moreland Avenue. All of these intersection designs were developed to illustrate how higher order bike facilities can be designed with the existing street right-of-way or how intersection re-designs can improve the safety for people driving and biking.

Corridor E. Core and Alternative Routes

Corridor Length

6.7 miles
45 minutes by bike

Major Destinations

Atlanta BeltLine
Westside Provisions District
Marietta Commercial Corridor
Georgia Institute of Technology
Coca-Cola Company Headquarters
Centennial Olympic Park and surrounding entertainment venues
Woodruff Park
Georgia State University
Sweet Auburn Historic District
Martin Luther King Jr. National Historic Site
Eastside Trail
Freedom Parkway
Little Five Points

MARTA Stations

Five Points
Inman Park

Neighborhoods

Underwood Hills
Berkley Park
Blandtown
Home Park
Marietta Street Artery
Georgia Tech
Downtown
Sweet Auburn
Old Fourth Ward
Inman Park
Chandler Park

NPU

D
E
M
N

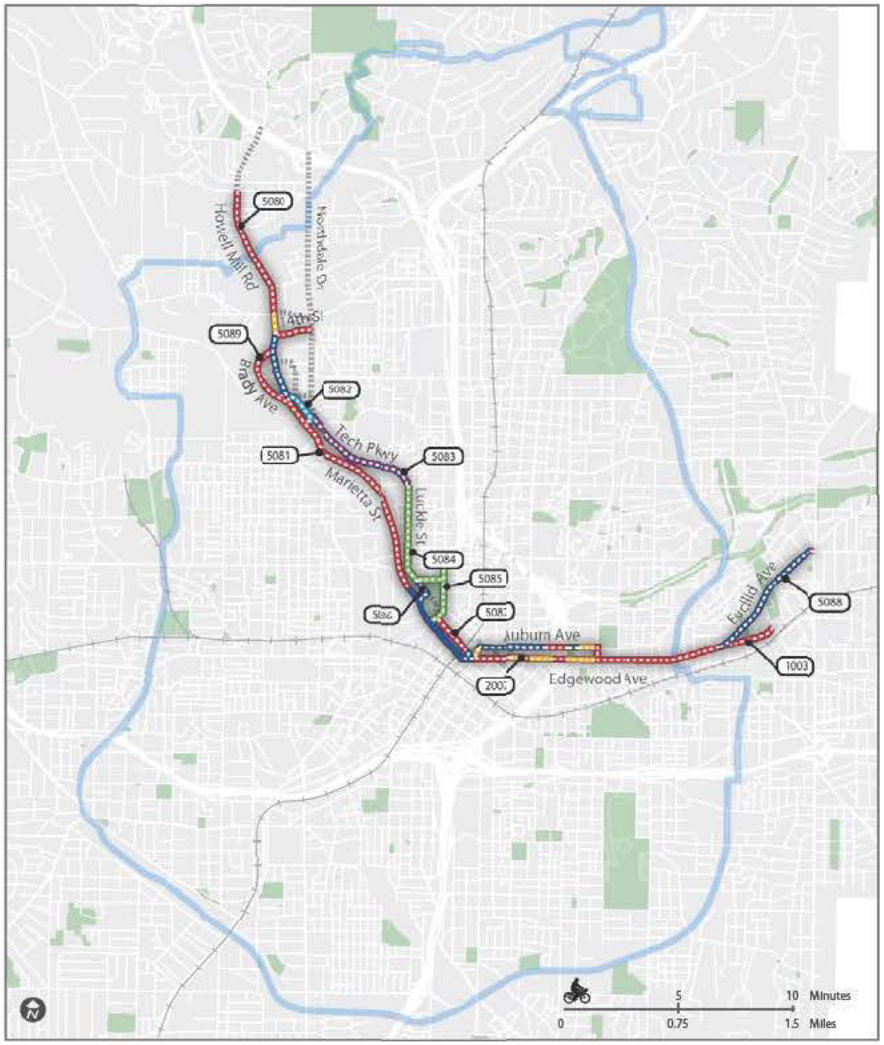
Council Districts

2
3
8

Relevant Plans

Atlanta BeltLine Subarea 8 Master Plan
Atlanta BeltLine Subarea 5 Master Plan
Howell Mill LCI
Upper Westside LCI
Georgia Institute of Technology Campus Master Plan
Georgia World Congress Center Master Plan
Imagine Downtown: ENCORE LCI
Moreland LCI

Corridor E Network Design Map



Core Study Corridor
Alternative Study Corridor
Atlanta Beltline Corridor

Existing Bike Facilities
Shared Lane Marking
Bike Lane
Multi-Use Path

Proposed Bike Facilities
Shared Lane Marking
Bike Lane
Multi-Use Path
Alternative Facility Options
Bike Boulevard
Buffered Bike Lane
Protected Cycle Track
Raised Cycle Track

Corridor E Projects

The projects listed in the table below are the projects currently programmed for construction along the corridor as well as new projects proposed as part of the *Cycle Atlanta: Phase 1.0 Study*. Facility type, the street that the project applies to, a description of the start and end points for the projects and a summary cost estimate are provided. Additional project cost information is provided in the Appendix for each project.

ID	Facility Type	Street	To	From	Cross Section(s)	Cost
1003	Bike Lane	Edgewood Avenue	Boulevard	Hurt Street		n/a
2007	Bike Lane	Edgewood Avenue-Auburn Avenue	Peachtree Street	Jackson Street		n/a
5080	Bike Lane/Shared Lane Marking	Howell Mill Road	Chattahoochee Avenue	West Marietta Street	E1, E2, E3, E4, E5	$238,819
5081	Bike Lane	Marietta Street	Howell Mill Road	Baker Street	E6, E7, E8, E11, E12, E14, E15	$274,960
5082	Shared Lane Marking	Hampton Street and 3rd Street	Marietta Street	8th Street	E21, E22	$4,129
5083	Multi-Use Path	Tech Parkway	Northside Drive	North Avenue	E10	$147,131
5084	Cycle Track	Luckie Street	North Avenue	Baker Street	E13, E16	$448,080
5085	Cycle Track	Baker Street and Centennial Olympic Park Drive	Baker Street from Luckie Street to Centennial Oympic Park Drive	Centennial Olympic Park Drive	Centennial Olympic Park concept	$466,937
5086	Shared Lane Marking	Park Avenue Place	Marietta Street	Centennial Olympic Park Drive from Ivan Allen Jr Drive to Marietta Street	Centennial Olympic Park concept	$3,429
5087	Contra-Flow Lane	Walton Street	Centennial Olympic Park Drive	Peachtree Street	E17	$108,764
5088	Share Lane Marking and Bike Lanes	Euclid Avenue	Edgewood Avenue	Moreland Avenue	E18, E19, E20	$33,155
5089	Bike Lanes	Brady Avenue	Howell Mill Road	West Marietta Street	E23, E24	$34,409

Notes

1. 1000 series: Facilities to be built in 2013
2. 2000 series: Facilities to be built in 2014
3. 3000 series: Facilities to be built in 2015
4. 4000 series: Unfunded high-priority projects we hope to fund by 2016
5. 5000 series: Facilities developed as part of the Cycle Atlanta: Phase 1.0 Study; 5000 - 5019 is for Corridor A projects, 5020 - 5039 is for Corridor B projects, 5040-5059 is for Corridor C projects, 5060 - 5079 is for Corridor D projects and 5080 - 5099 is for Corridor E projects
6. Cost estimates include an estimate of probable cost for construction, design cost (25% of construction cost) and contingency cost (20% of construction costs). Construction costs can include re-striping costs, signal improvements, new pavement markings and multi-use path construction. Construction costs do not include resurfacing costs. Cost estimates for 1000 to 4000 series projects are not provided because they have already been funded, are in the process of being designed, or are in the process of being constructed.

Corridor E Design Schematics

The cross sections, plan concepts and accompanying notes provide a description for the design of the proposed facilities along the corridor. A typical cross section has been developed for every segment of the corridor where a facility is proposed as part of the *Cycle Atlanta: Phase 1.0 Study* and where projects have been programmed but the facility design has not been finalized. Cross sections were not developed for corridor segments that already have a facility, where the facility has already been programmed for construction or where the facility has already been designed through another project or planning effort.

The typical cross sections and plan concepts form the basis for the cost estimates presented on the previous page. Each project consists of one or more cross section or plan concept segments. The design schematics were used to provide details about facility design for projects, particularly where cross sections change along the corridor or intersection design is more complex.

The legend below provides a summary of the different symbols and line types used to describe existing conditions or proposed features along the corridor.

Design Schematics Legend

EXISTING BIKE FACILITIES

- Shared Lane Marking
- Bike Lane
- Multi-Use Path

PROPOSED BIKE FACILITIES

- Shared Lane Marking
- Bike Lane
- Multi-Use Path
- Bike Boulevard
- Buffered Bike Lane
- Protected Cycle Track
- Alternative Facility Options
- Raised Cycle Track

STUDY FOCUS FEATURES

- Core Study Corridor
- Alternative Study Corridor
- Atlanta BeltLine Corridor
- MARTA Rail Station

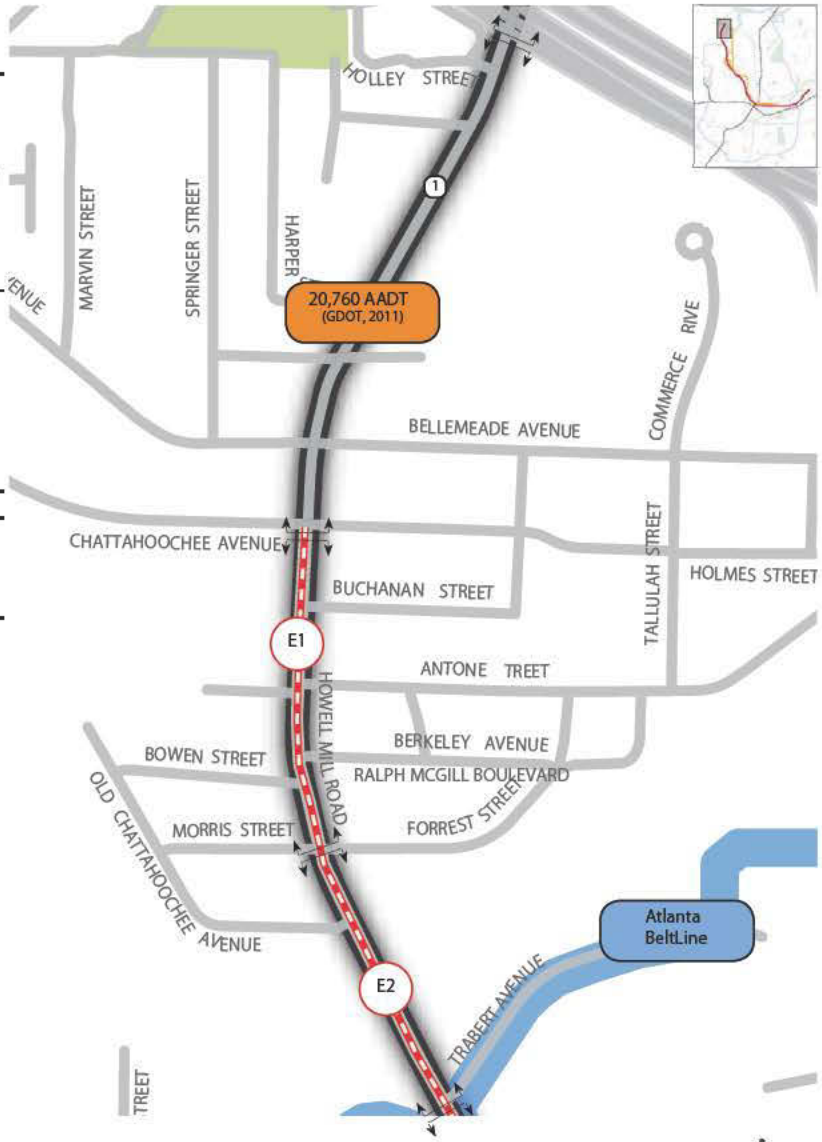
ANNOTATION SYMBOLS

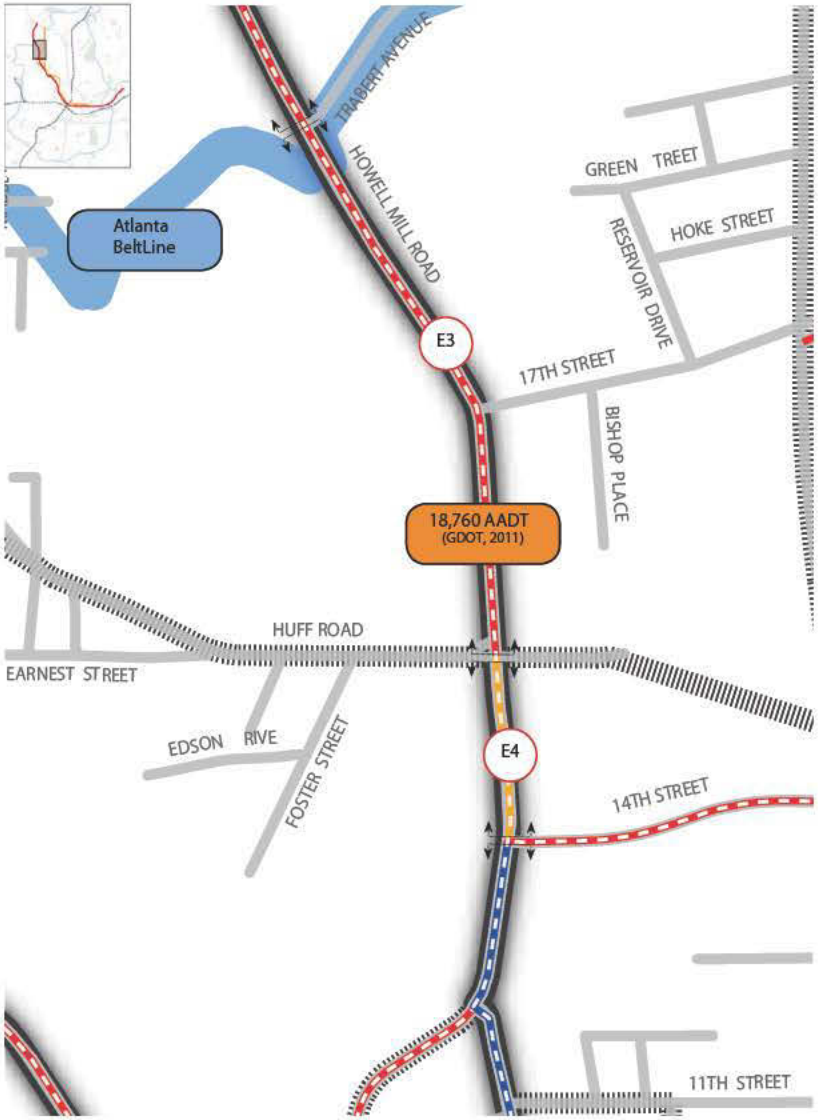
- Cross Section Application Location
- Map Annotation
- Cross Section Segment To/From Point
- Corridor Connection to Atlanta BeltLine
- Annual Average Daily Traffic

Cross Section ID	Cross Section	Street	From	To	Existing Vehicular Lanes	Proposed Vehicular Lanes	Notes
E1	BIKE LANES 	Howell Mill Road	Chattahoochee Avenue	Morris Street	3	2	2 travel lanes Bike lanes should be dropped approaching Chattahoochee Avenue to accommodate left-turn lane at Chattahoochee Avenue and Howell Mill Road.
E2	BIKE LANES 	Howell Mill Road	Morris Street	Trabert Avenue	4	3	2 travel lanes; center turn lane

Additional Notes

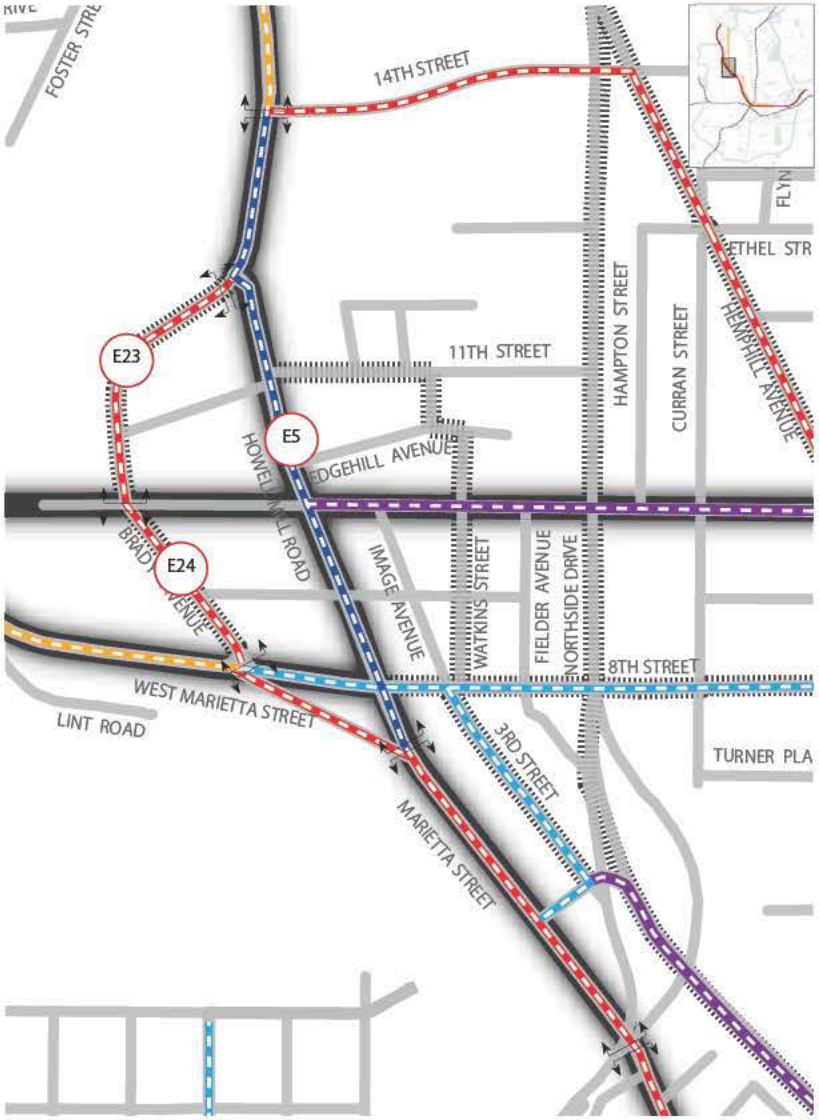
1	Corridor E extends all the way to the intersection of Howell Mill Road and Interstate 75. However, cross sections and projects for Cycle Atlanta begin at Chattahoochee Avenue and extend south. Cross sections were not developed for the segment of Howell Mill Road from Interstate 75 to Chattahoochee Avenue because of the significant design challenges along this segment to accommodate bikeway facilities. The street would require significant and costly changes travel lanes and the streetscape to address the frequent curb cuts, complicated intersections and the interstate interchange. Through the planning process, Chattahoochee Avenue was determined to be the new end point for northern end of Corridor E.





Cross Section ID	Cross Section	Street	From	To	Existing Vehicular Lanes	Proposed Vehicular Lanes	Notes
E3	BIKE LANES 	Howell Mill Road	Trabert Avenue	Huff Road	3	3	2 travel lanes; center turn lane To accommodate bike lanes, the roadway will need to be widened. The City of Atlanta owns property on either side of the roadway. The utilities and fencing along the eastern edge of the roadway will likely need to moved in order to accommodate the widening. Additional project scope development and study is needed.
E4	BUFFERED BIKE LANES 	Howell Mill Road	Huff Road	14th Street	4	3	2 travel lanes; center turn lane

Cross Section ID	Cross Section	Street	From	To	Existing Vehicular Lanes	Proposed Vehicular Lanes	Notes
E5	SHARED LANE MARKINGS 	Howell Mill Road	14th Street	West Marietta Street	3	2	2 travel lanes
E23	BIKE LANES 	Brady Avenue	Howell Mill Road	10th Street	2	2	2 travel lanes; on-street parking along one side of roadway
E24	BIKE LANES 	Brady Avenue	10th Street	West Marietta Street	2	2	2 travel lanes



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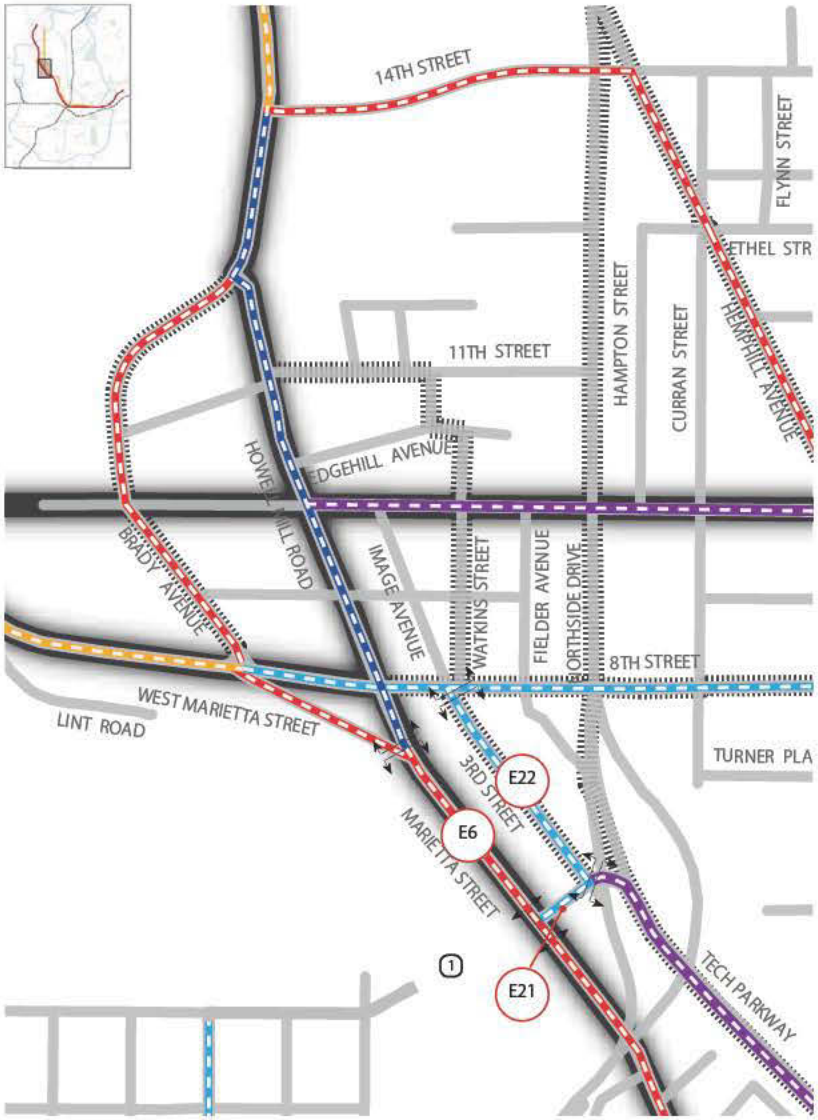

Cross Section ID	Cross Section	Street	From	To	Existing Vehicular Lanes	Proposed Vehicular Lanes	Notes
E6	BIKE LANES  	Marietta Street	Howell Mill Road	Northside Drive	4	3	2 travel lanes; center turn lane
E21	SHARED LANE MARKINGS  	Hampton Street	Marietta Street	3rd Street	2	2	2 travel lanes
E22	SHARED LANE MARKINGS  	3rd Street	Hampton Street	8th Street	2	2	2 travel lanes

Additional Notes

1 Long-term, the vision for the James B. Brawley and Jefferson Street bike boulevards to Marietta Street. When completed, the Brawley bike boulevard will extend all the way south to the Atlanta University Center and the Jefferson bike boulevard will connect to the future Westisde Reservoir Park. This bike boulevard connection is show here for illustration purposes only. To connect both of these routes to Marietta will require crossing over the active rail lines. The design challenges to cross at this location may be cost prohibitive. As this vision for this connection is developed alternative alignments should be considered including using Northside Drive or Marietta Boulevard to cross the rail lines.

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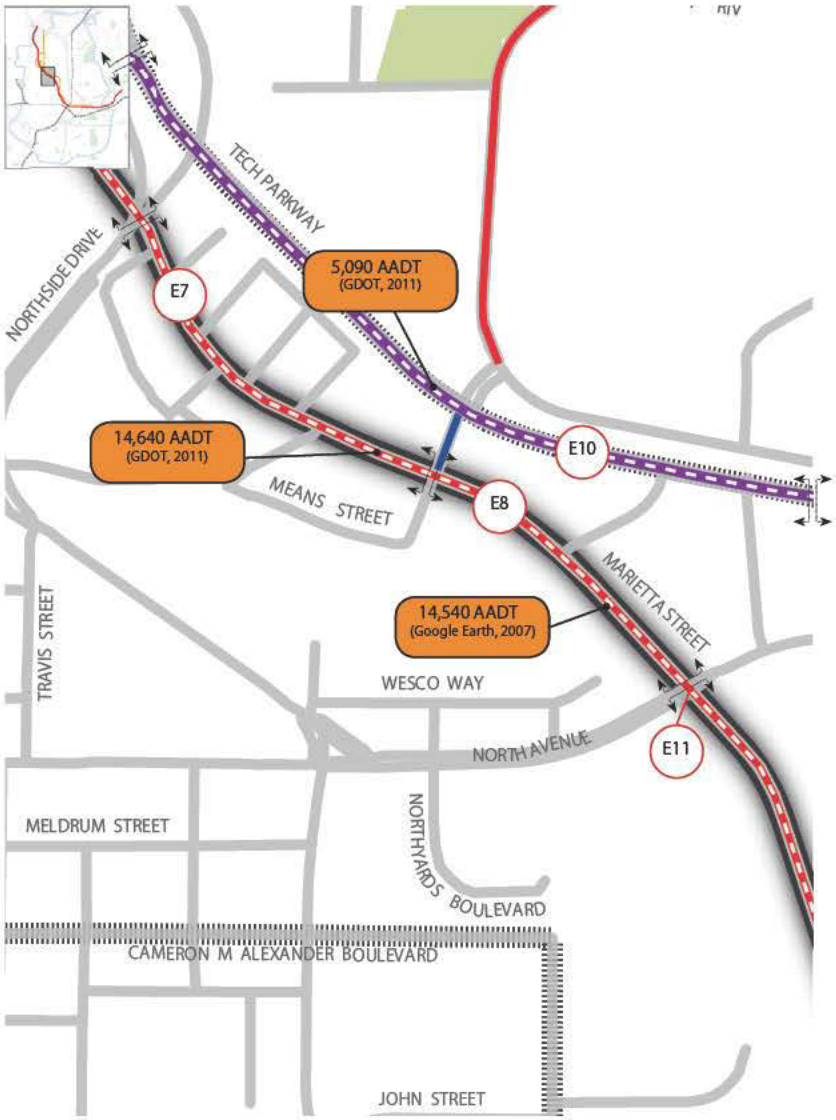
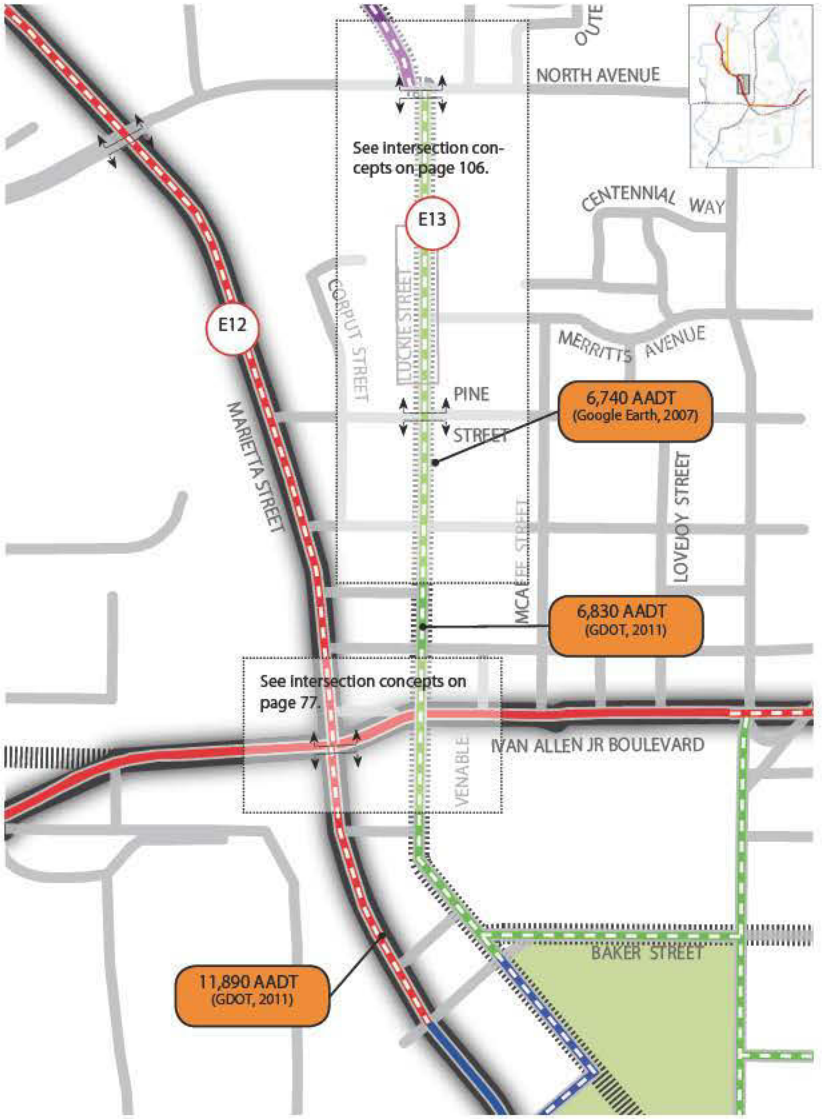


Cross Section ID	Cross Section	Street	From	To	Existing Vehicular Lanes	Proposed Vehicular Lanes	Notes
E7	BIKE LANES 	Marietta Street	Northside Drive	Means Street	4	2	2 travel lanes; on-street parking
E8	BIKE LANES 	Marietta Street	Means Street	North Avenue Bridge	4	3	2 travel lanes; center turn lane
E10	SHARED BICYCLE AND PEDESTRIAN SPACE 	Tech Parkway	Northside Drive	North Avenue	4	2	2 travel lanes Convert western side of Tech Parkway to bicycle and pedestrian only. Convert eastern side of Tech Parkway to a two-way street (one northbound lane and one southbound lane). In order to accommodate this conversion, on-street parking must be removed along Tech Parkway.
E11	BUFFERED BIKE LANES 	Marietta Street	North Avenue Bridge	North Avenue Bridge	4	2	2 travel lanes

Cross Section ID	Cross Section	Street	From	To	Existing Vehicular Lanes	Proposed Vehicular Lanes	Notes
E12	BIKE LANES 	Marietta Street	North Avenue Bridge	Ivan Allen Jr Boulevard	4	2	2 travel lanes Drop on-street parking at entrance to Coca-Cola campus and provide a center left turn lane for southbound traffic.
E13	2 WAY RAISED CYCLE TRACK 	Luckie Street	North Avenue	Pine Street	4	4	4 travel lanes Preserve street trees wherever feasible.



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Cross Section ID	Cross Section	Street	From	To	Existing Vehicular Lanes	Proposed Vehicular Lanes	Notes
E14		Marietta Street	Ivan Allen Jr Boulevard	Simpson Street	4	3	2 travel lanes; center turn lane
E15		Marietta Street	Simpson Street	Baker Street	4	2	2 travel lanes; on-street parking
E16		Luckie Street	Pine Street	Baker Street	4	3	2 travel lanes; center turn lane; on-street parking This cross section, as presented, is a short-term option for this segment. Implementation can be done with re-striping, pavement marking, safe hit posts and signage. Long-term, this cross section should be adjusted to accommodate the proposed streetcar extension along Luckie Street. To accommodate the streetcar, the width of the travel lanes should be increased to a minimum of 11' and the parking lane to 9'. To accommodate this change, the cycle track width can be narrowed to 8' and the buffer between the cycle track and adjacent travel lane (shared with the streetcar) can be narrowed as well. If the buffer is narrowed, it should be designed as a more permanent barrier using a raised curb or other feature that limits when cyclists can enter or exit the cycle track. Using this approach will help direct cyclists to specific entrance and exit points that can allow safe crossing over the streetcar tracks.

Luckie St at North Ave/Tech Parkway and Pine St Intersection Concepts

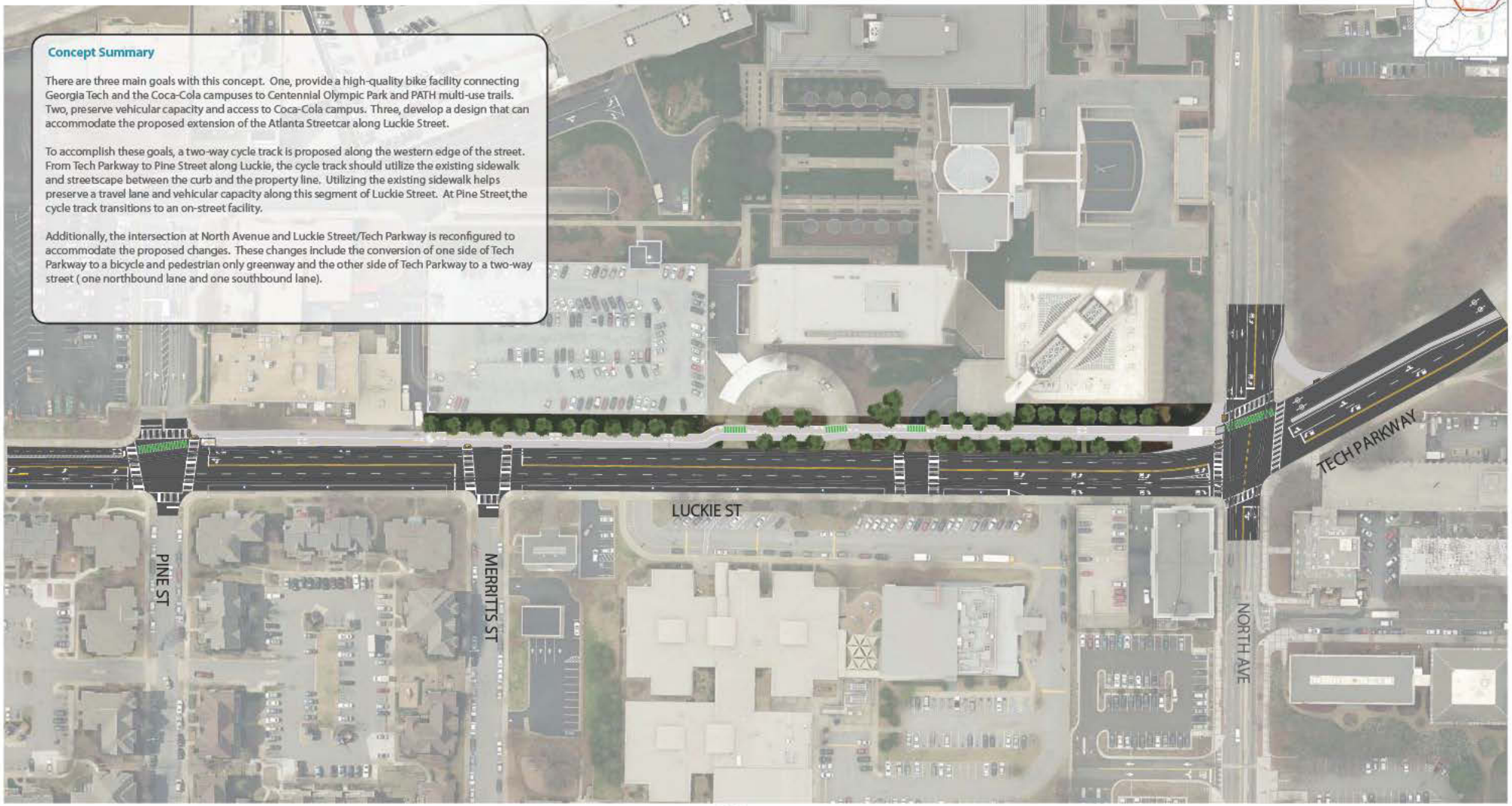
Overview

Concept Summary

There are three main goals with this concept. One, provide a high-quality bike facility connecting Georgia Tech and the Coca-Cola campuses to Centennial Olympic Park and PATH multi-use trails. Two, preserve vehicular capacity and access to Coca-Cola campus. Three, develop a design that can accommodate the proposed extension of the Atlanta Streetcar along Luckie Street.

To accomplish these goals, a two-way cycle track is proposed along the western edge of the street. From Tech Parkway to Pine Street along Luckie, the cycle track should utilize the existing sidewalk and streetscape between the curb and the property line. Utilizing the existing sidewalk helps preserve a travel lane and vehicular capacity along this segment of Luckie Street. At Pine Street,the cycle track transitions to an on-street facility.

Additionally, the intersection at North Avenue and Luckie Street/Tech Parkway is reconfigured to accommodate the proposed changes. These changes include the conversion of one side of Tech Parkway to a bicycle and pedestrian only greenway and the other side of Tech Parkway to a two-way street (one northbound lane and one southbound lane).



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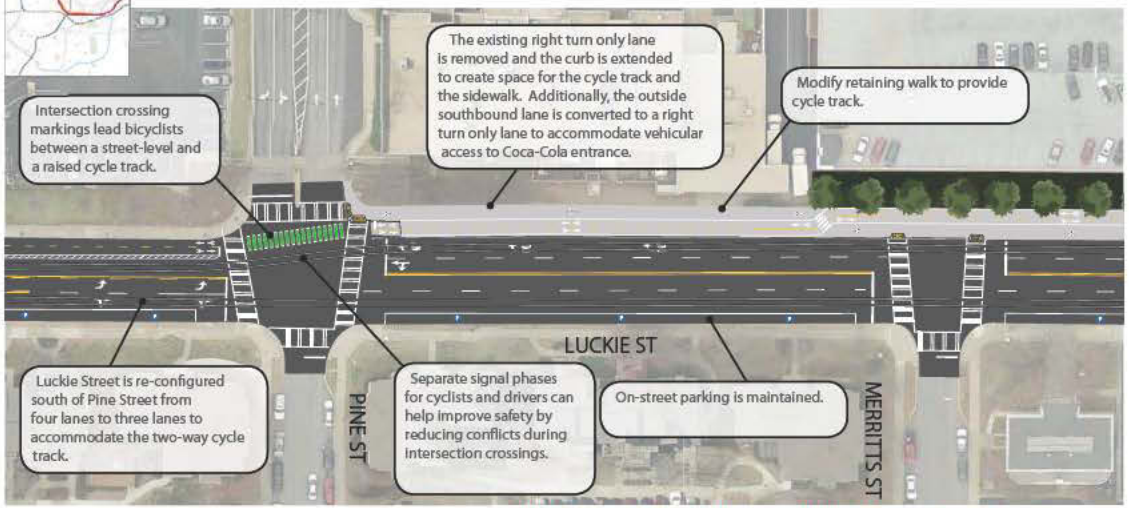
Luckie St at North Ave/Tech Parkway and Pine St Intersection Concepts

Part 1: Luckie St at Pine St and Merrits Ave



Luckie St at North Ave/Tech Parkway and Pine St Intersection Concepts

Part 2: Luckie St at Merrits Ave and Coca-Cola Driveway

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Luckie St at North Ave/Tech Parkway and Pine St Intersection Concepts

Part 3: Luckie St at North Ave/Tech Parkway

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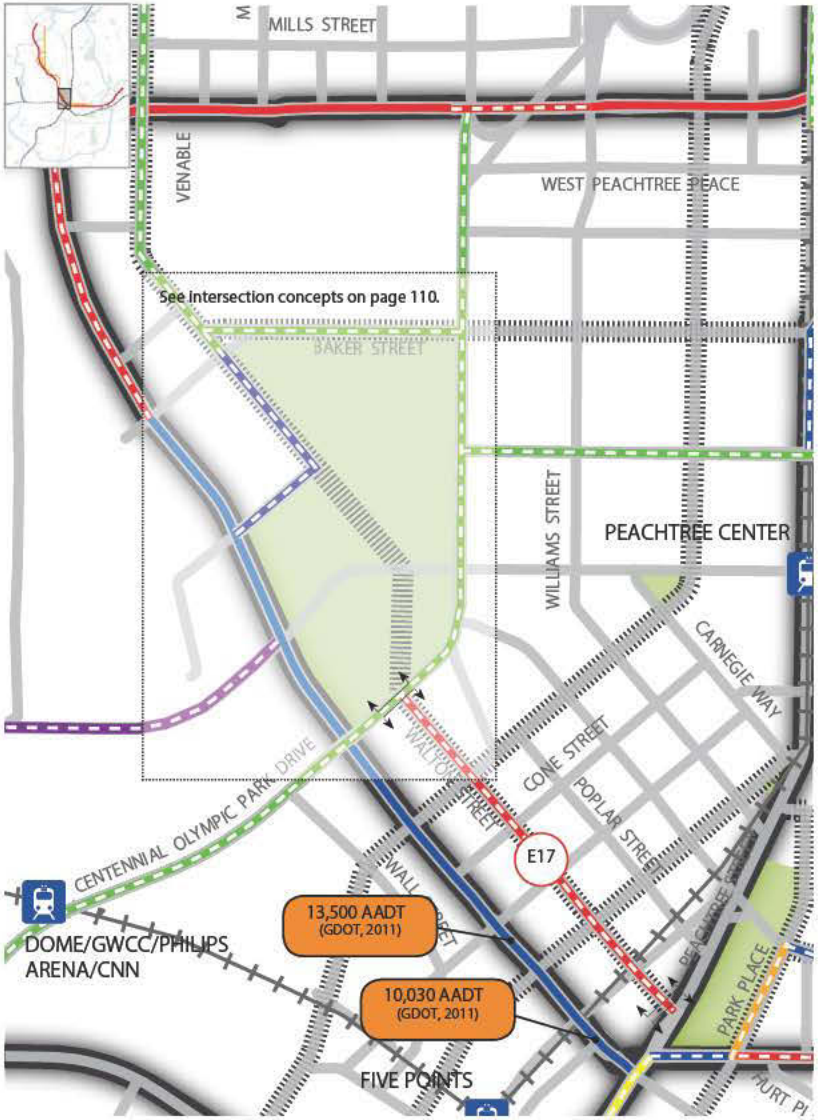
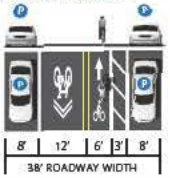


Cross Section ID	Cross Section	Street	From	To	Existing Vehicular Lanes	Proposed Vehicular Lanes	Notes
E17	SHARED LANE MARKINGS / CONTRA-FLOW BIKE LANE 	Walton Street	Centennial Olympic Park Drive	Peachtree Street	2	1	1 travel lane

0 2.5 5.0 Minutes

0 0.375 0.75 Miles

Centennial Olympic Park Intersection Concepts
Overview

Concept Summary

With the development of the bikeway network for this study, Centennial Olympic Park is emerging as an important connection point. Several routes intersection around Centennial Olympic Park including the following:

- Bike lanes along Marietta Street
- Proposed two-way cycle track along Luckie Street
- PATH multi-use path along John Portman Boulevard that will connect the Freedom Parkway Trail to Centennial Olympic Park.
- Proposed contra-flow bike lane along Walton Street from Centennial Olympic Park Drive to Peachtree Street.
- Proposed two-way cycle track along Centennial Olympic Park Drive from Castleberry Hill to Ivan Allen Jr. Boulevard.

In addition to these bicycle connections, the area continues to grow as a tourist hub with access to transit via the Atlanta Streetcar and surrounding MARTA stations. Likewise, the City of Atlanta plans to implement a bike share system that will likely include stations at or around Centennial Olympic Park Drive.

With all of these changes and potential connections, Centennial Olympic Park is becoming a truly urban park. The proposed reconfiguration of Baker Street and Centennial Olympic Park Drive includes the addition of a a two-way cycle track along the edge of the park sidewalk and on-street parking between the cycle track and travel lanes. To accommodate the addition of the cycle track and on-street parking, two travel lanes are removed.

With the addition of on-street parking around the majority of the park's edge, vehicular access to the park is improved. Additionally, the addition of the on-street parking can be a source of revenue for the Centennial Olympic Park, which can be used to cover maintenance and operational costs associated with the park.

The on-street parking lanes could also be designed to change between on-street parking lanes and travel lanes. Using Intelligent Transportation System (ITS) management, the on-street parking lanes could be temporarily changed to travel lanes to increase motor vehicle capacity of streets during major events. When an event is finished, the travel lanes can be changed back to on-street parking lanes.

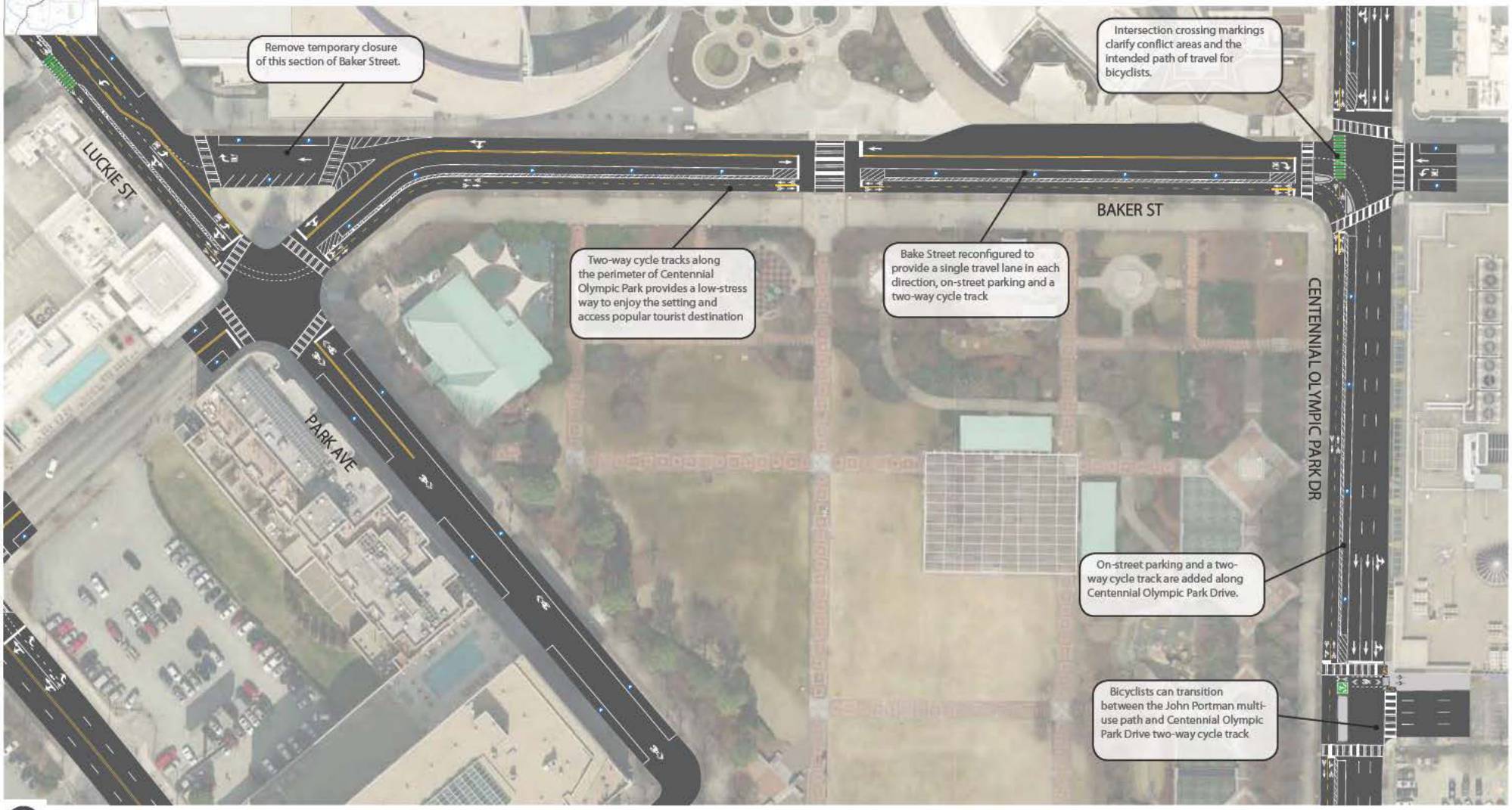
Lastly, this concept is developed with the intent of keeping the bicycle circulation around the edge of park. Riding a bicycle through the park is currently not allowed and this concept will help preserve the interior of the park as a pedestrian place.

The Centennial Olympic Park concept is presented in more detail on the subsequent pages of this chapter.

This image is not to scale and is presented for illustrative purposes only.

Centennial Olympic Park Intersection Concepts

Part 1: COP North



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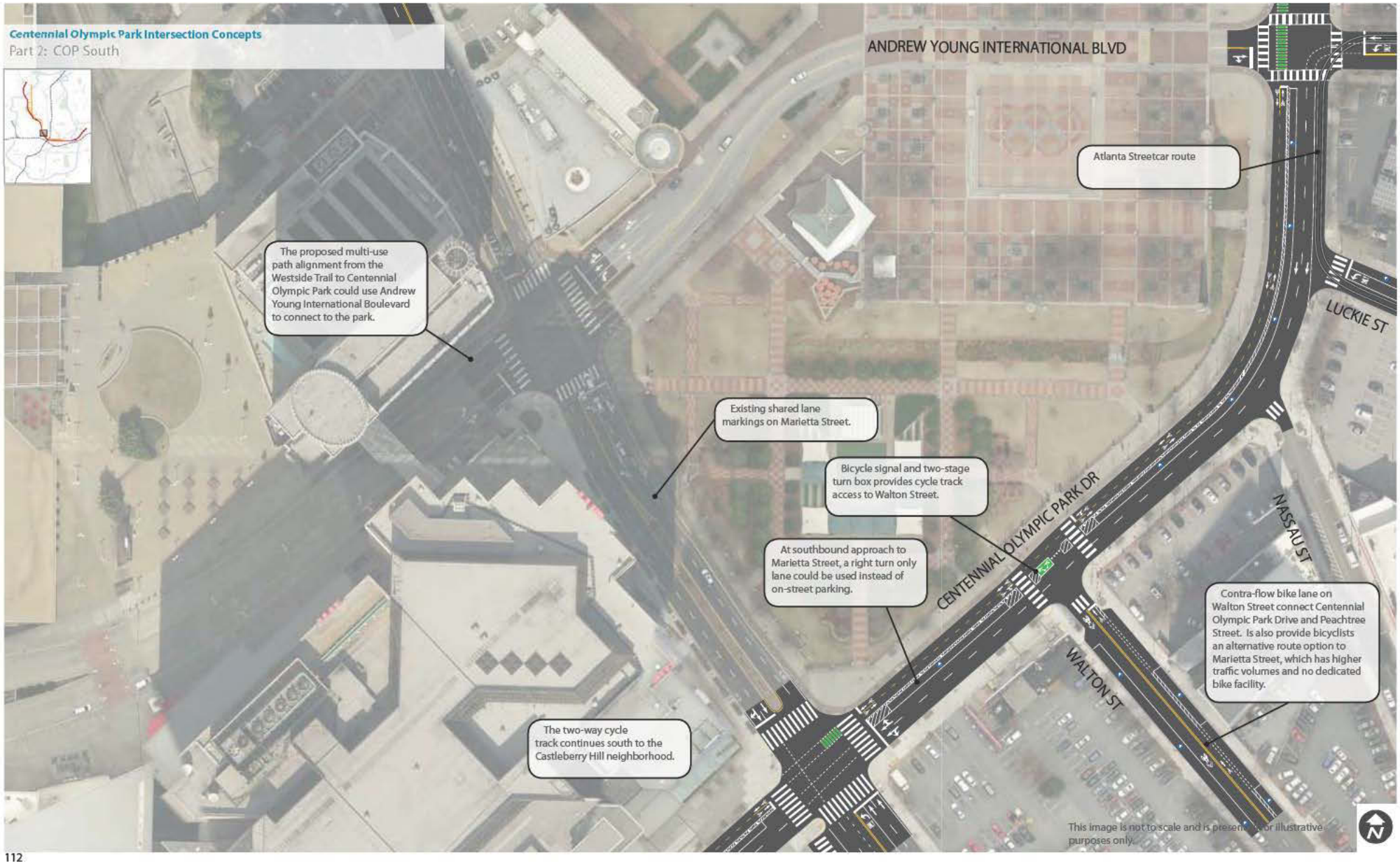
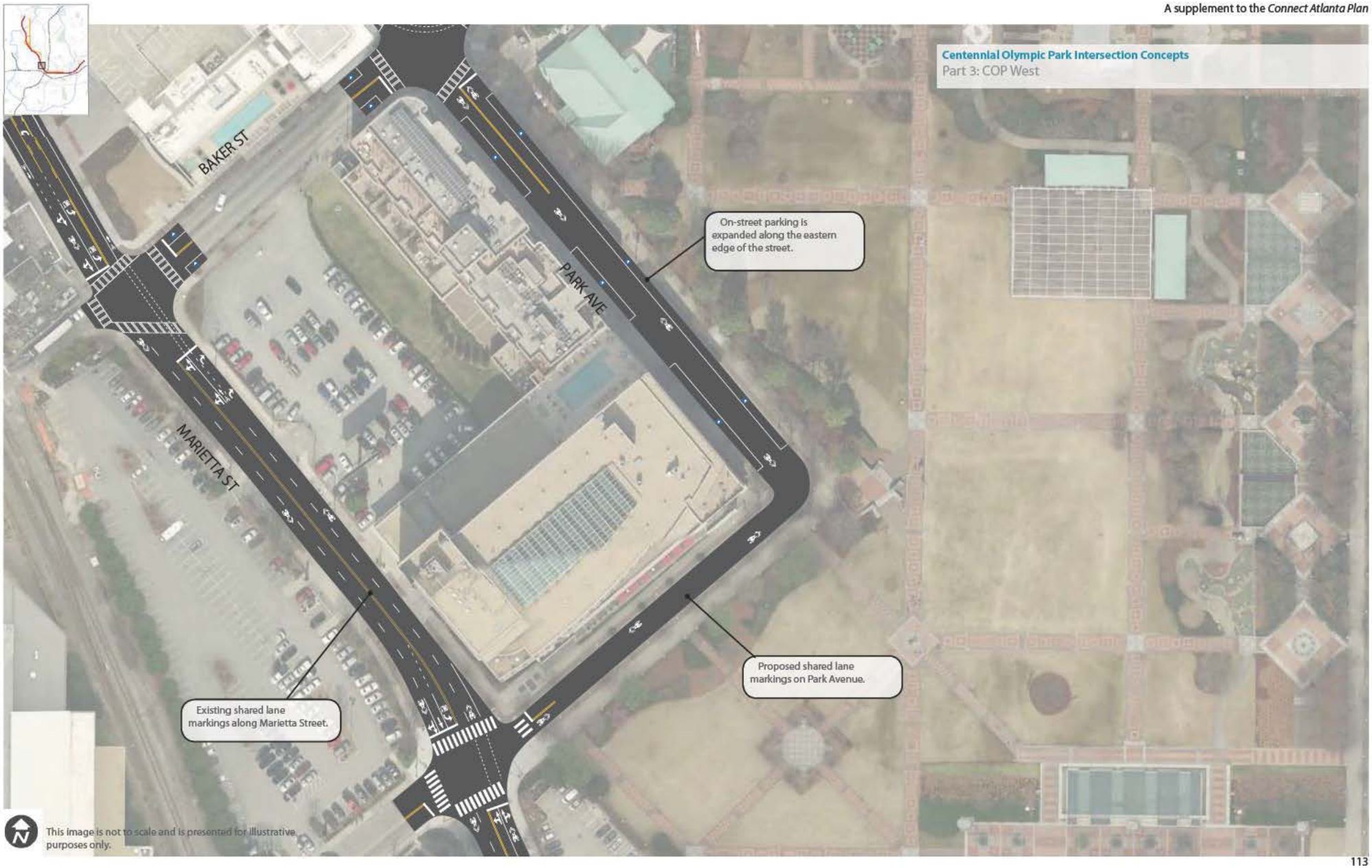

Centennial Olympic Park Intersection Concepts
Part 2: COP South
ANDREW YOUNG INTERNATIONAL BLVD
Atlanta Streetcar route
The proposed multi-use path alignment from the Westside Trail to Centennial Olympic Park could use Andrew Young International Boulevard to connect to the park.
Existing shared lane markings on Marietta Street.
Bicycle signal and two-stage turn box provides cycle track access to Walton Street.
At southbound approach to Marietta Street, a right turn only lane could be used instead of on-street parking.
The two-way cycle track continues south to the Castleberry Hill neighborhood.
Contra-flow bike lane on Walton Street connect Centennial Olympic Park Drive and Peachtree Street. Is also provide bicyclists an alternative route option to Marietta Street, which has higher traffic volumes and no dedicated bike facility.
LUCKIE ST
CENTENNIAL OLYMPIC PARK DR
NASSAU ST
WALTON ST
This image is not to scale and is presented for illustrative purposes only.



Centennial Olympic Park Intersection Concepts

Part 3: COP West

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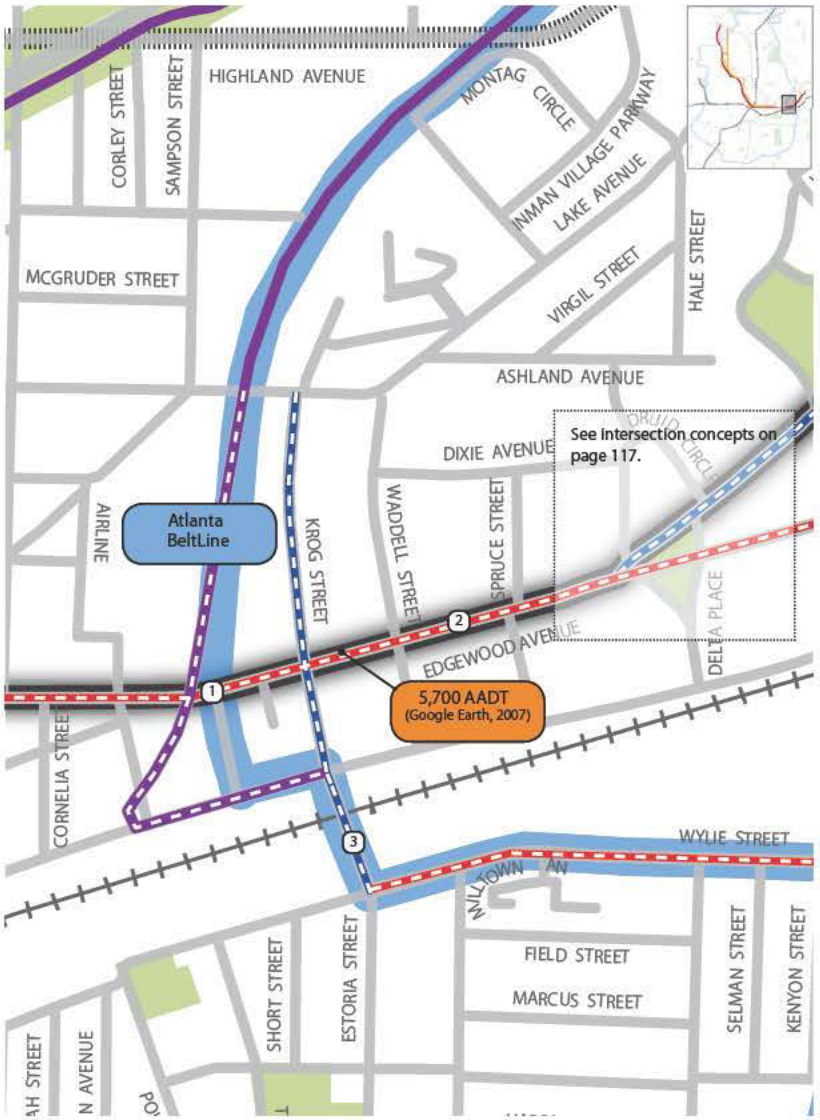
Notes

1.	A two-way cycle track will be constructed along Peachtree Center Avenue in 2013. The cycle track will provide a protected bikeway and alternative route option to Peachtree Street from Ivan Allen Jr Boulevard to Edgewood Avenue.
2.	Bike facilities will be installed to accommodate cyclists traveling east. Bike facilities are not installed in the westbound direction to accommodate the Atlanta Streetcar. Additionally, streetcar tracks can often be difficult for cyclists to cross or navigate. For cyclists traveling west, they are encourage to use the westbound bike facilities along Edgewood Avenue.
3.	Bike facilities will be installed to accommodate cyclists traveling west. Bike facilities are not installed in the eastbound direction to accommodate the Atlanta Streetcar. Additionally, streetcar tracks can often be difficult for cyclists to cross or navigate. For cyclists traveling east, they are encourage to use the eastbound bike facilities along Edgewood Avenue.
4.	East of Jackson Street, the existing bike lanes will be re-striped in 2013.

Along the Atlanta Streetcar route, bike facilities will be on one side of the road and run the opposite direction of the streetcar.

Notes

1.	The Edgewood Avenue bridge is being rebuilt in 2013 and will be re-opend in 2014. The new bridge will include connections from Edgewood Avenue to the Atlanta BeltLine Eastside Trail.
2.	The bike lanes along Edgewood Avenue will be re-striped in 2013.
3.	Krog Street and the Krog Street tunnel will have bikeway facility improvements in 2013. These improvements will enhance the bicycle connection between the Atlanta BeltLine Eastside Trail and Atlanta BeltLine south of the rail lines. Krog Street will have shared lane markings installed and the Krog Street tunnel will be resurfaced. It will have lighting upgrades and shared lane markings installed.



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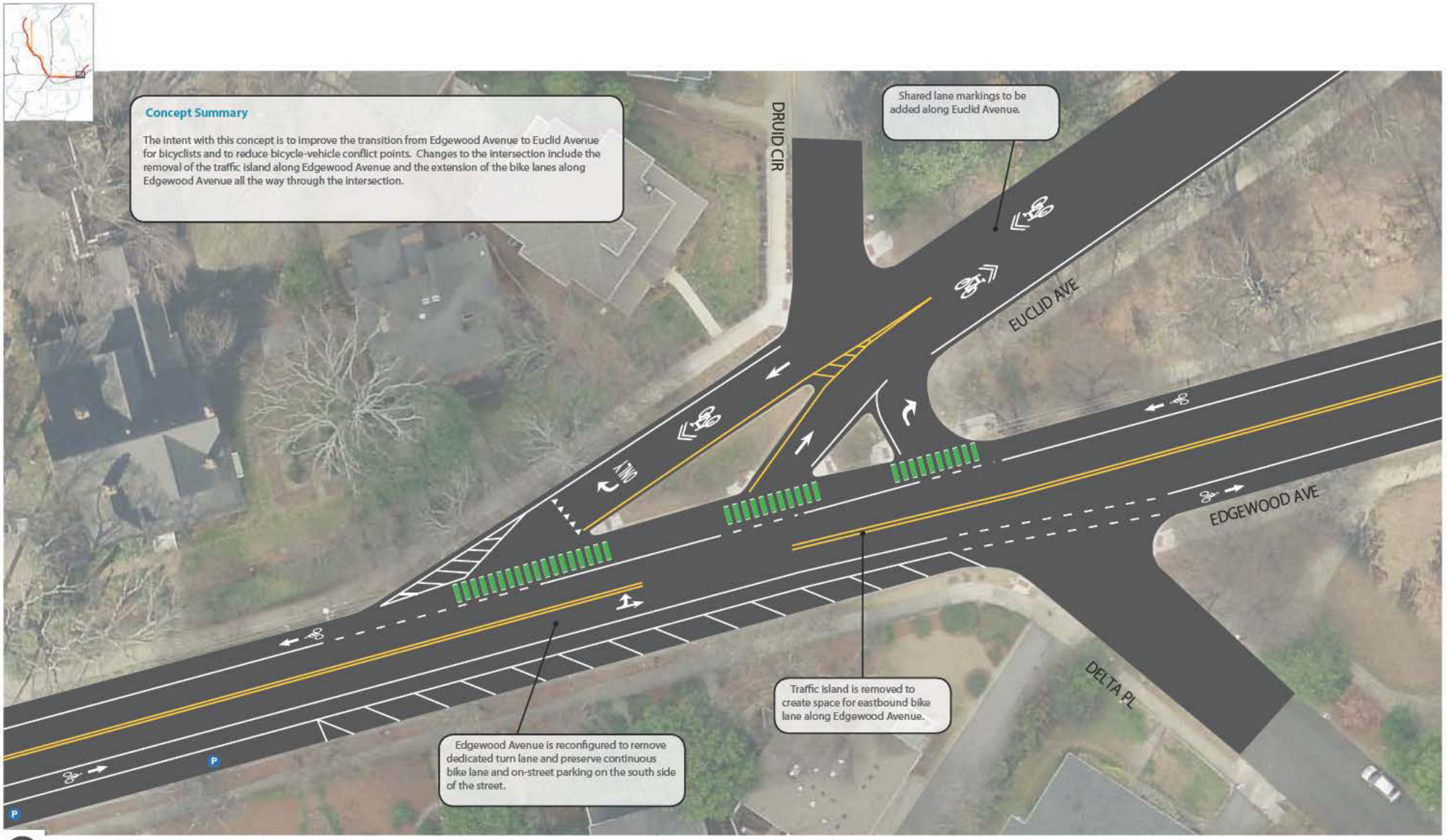
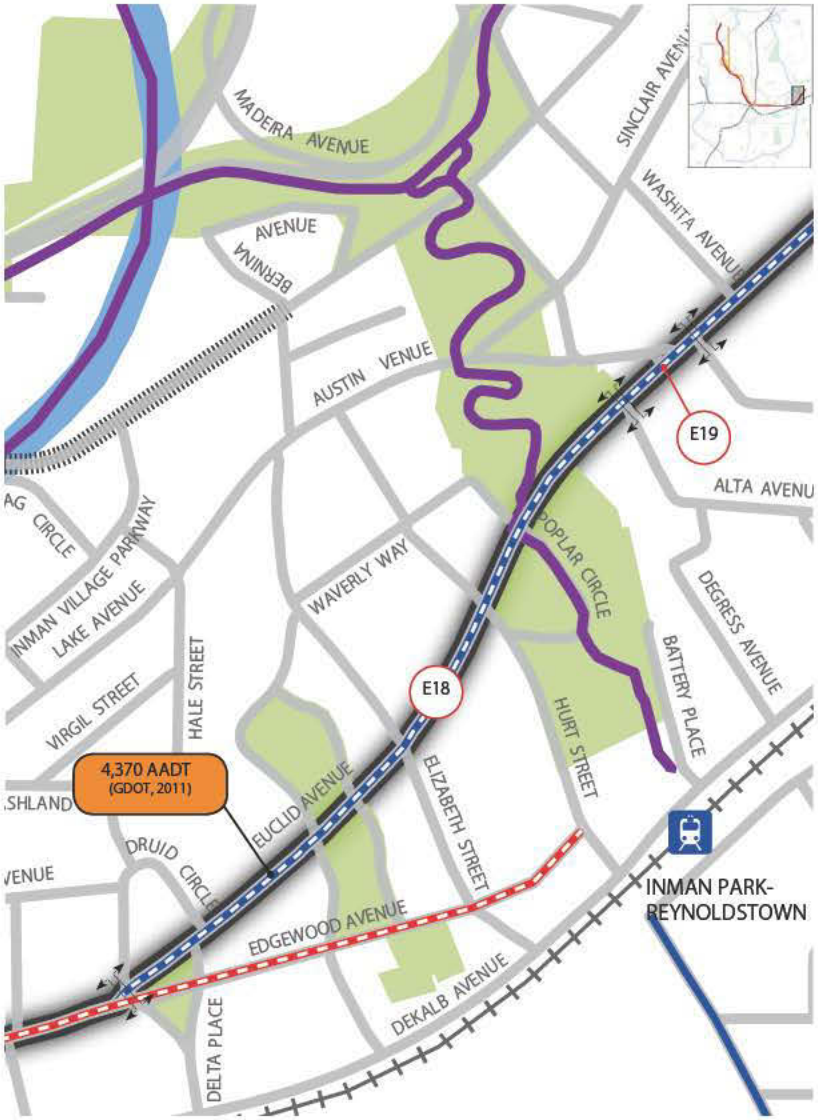
0.75 Miles — 0.375 — 0



This image is not to scale and is presented for illustrative purposes only.

Cross Section ID	Cross Section	Street	From	To	Existing Vehicular Lanes	Proposed Vehicular Lanes	Notes
E18	SHARED LANE MARKINGS 8.5' | 12.5' | 12.5' | 8.5' 42' ROADWAY SURFACE WIDTH	Euclid Avenue	Edgewood Avenue	Alta Avenue	2	2	2 travel lanes
E19	SHARED LANE MARKINGS NO LANE STRIPING 36' ROADWAY WIDTH	Euclid Avenue	Alta Avenue	Austin Avenue	2	2	2 travel lanes A dashed yellow centerline should be considered when this segment is implemented. Consideration should be given to existing and anticipated future motor vehicle volumes.



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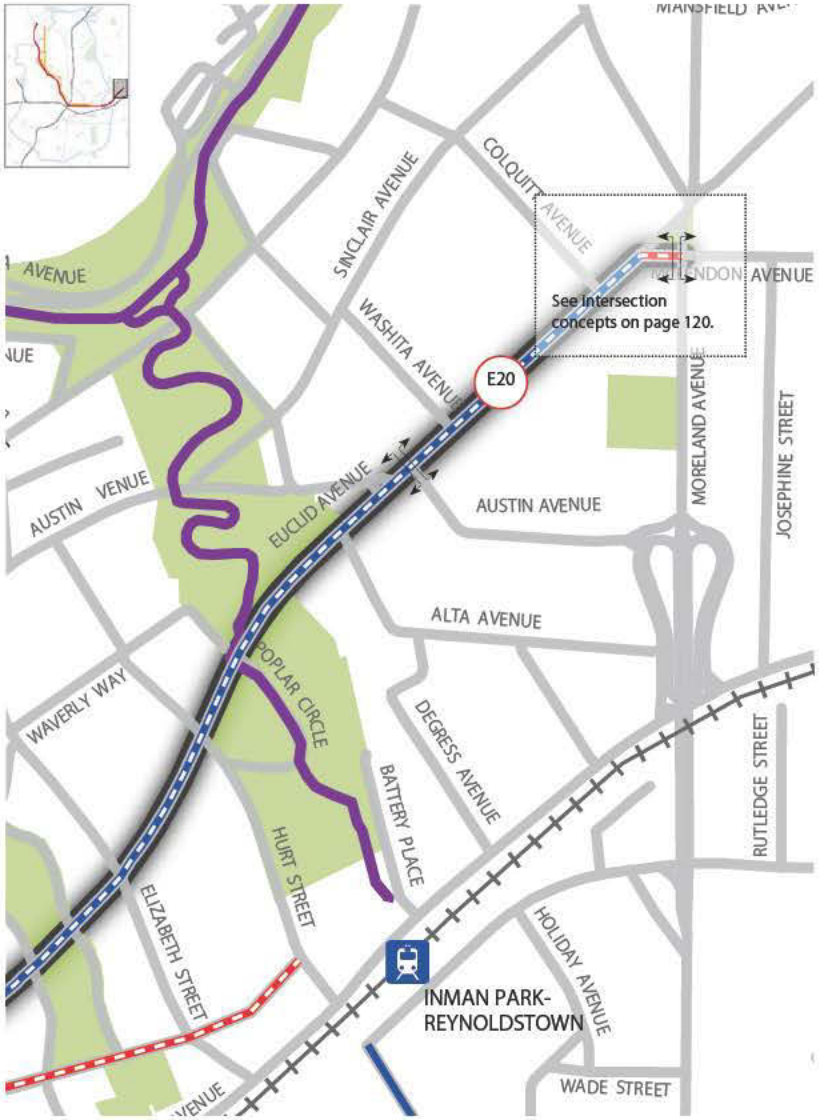
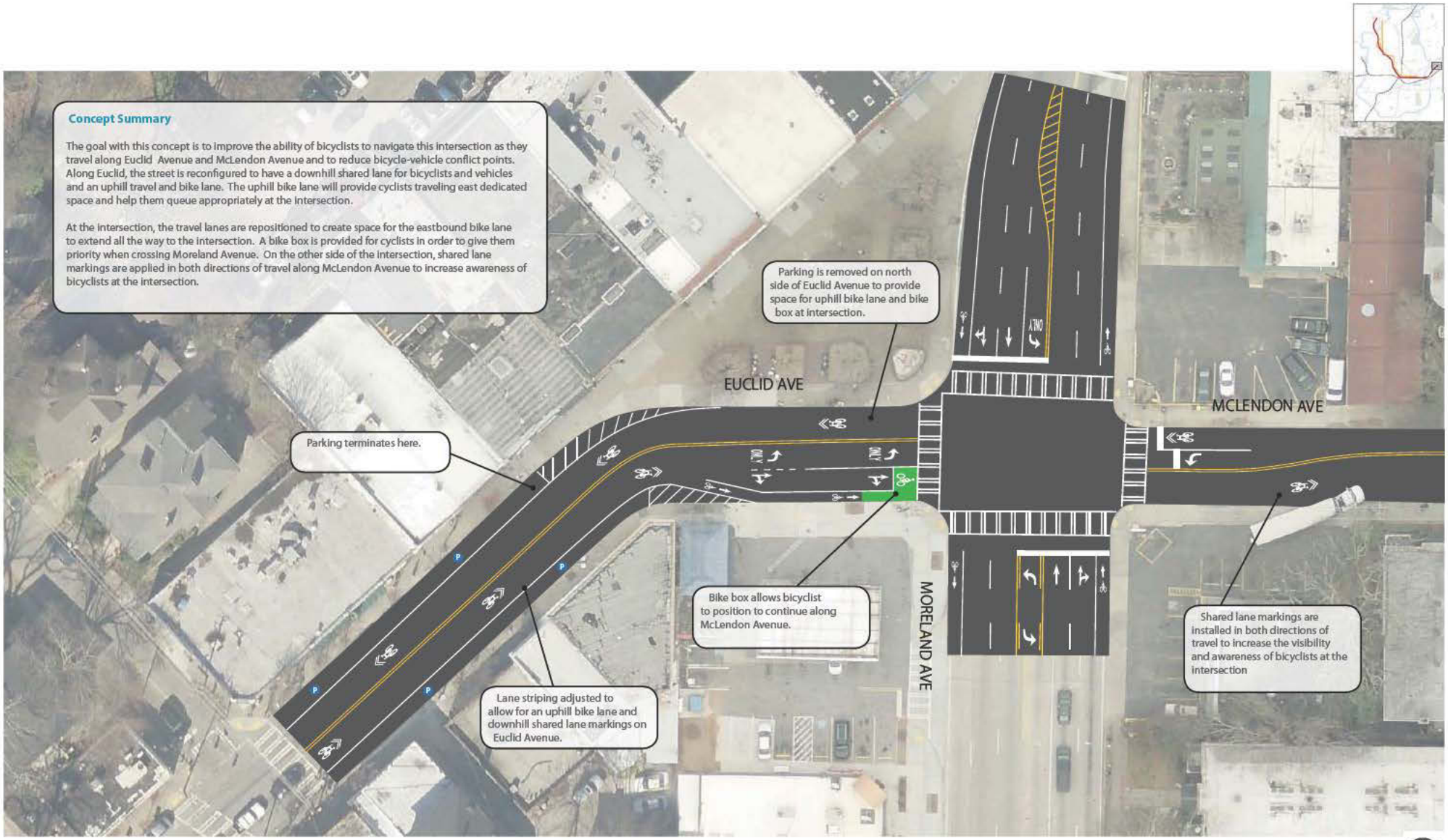


Cross Section ID	Cross Section	Street	From	To	Existing Vehicular Lanes	Proposed Vehicular Lanes	Notes
E20	SHARED LANE MARKINGS NO LANE STRIPING 36'-38' ROADWAY WIDTH	Euclid Avenue	Austin Avenue	Moreland Avenue	2	2	2 travel lanes A dashed yellow centerline should be considered when this segment is implemented. Consideration should be given to existing and anticipated future motor vehicle volumes.



This image is not to scale and is presented for illustrative purposes only.

Appendix

Supplemental Corridor Information

Corridor A Cost Estimates

The following tables contain additional cost estimate information for projects and cross sections for *Corridor A: Brookwood- Midtown-Downtown-West End*. The tables include the following information:

- Project or Cross Section ID
- Facility Type
- Street
- Beginning Point (To)
- Ending Point (From)
- Segment Length (Distance)
- Construction Cost
- Design Cost
- Contingency Cost
- Total Cost

Cost estimates include an estimate of probable cost for construction, design cost (25% of construction cost), and contingency cost (20% of construction costs). Construction costs can include re-striping costs, signal improvements, new pavement markings, and multi-use path construction. Construction costs do not include resurfacing costs. Cost estimates for 1000 to 4000 series projects are not provided because they have already been funded, are in the process of being designed, or are in the process of being constructed.

The first two tables for Corridor A summarize the two proposed treatments for Peachtree Street from the Buford-Spring Connector (near the entrance to Savannah College of Art and Design) to Linden Avenue.

Option A: Shared Lane Option

ID	Facility Type	Street	To	From	Distance (feet)	Construction Cost	Design Cost (25%)	Contingency Cost (20%)	Total Cost
A6a	Buffered Bike Lane	Peachtree Street	Buford-Spring Connector	Spring Street	500	$18,397	$4,599	$3,679	$26,675
A7a	Shared Lane Marking	Peachtree Street	Spring Street	Peachtree Circle	700	$1,689	$422	$338	$2,450
A8a	Shared Lane Marking	Peachtree Street	Peachtree Circle	West Peachtree Street	460	$1,696	$424	$339	$2,459
A13a	Shared Lane Marking	Peachtree Street	West Peachtree Street	Alliance Theatre	2,050	$5,936	$1,484	$1,187	$8,607
A14a	Shared Lane Marking	Peachtree Street	Alliance Theatre	14th Street	1,020	$5,936	$1,484	$1,187	$8,607
A16a	Shared Lane Marking	Peachtree Street	14th Street	10th Street	1,880	$5,512	$1,378	$1,102	$7,992
A19a	Shared Lane Marking	Peachtree Street	10th Street	North Avenue	3,800	$10,812	$2,703	$2,162	$15,677
A21a	Shared Lane Marking	Peachtree Street	North Avenue	Linden Avenue	540	$1,908	$477	$382	$2,767
Total					**10,950**	**$51,886**	**$12,972**	**$10,377**	**$75,235**

Option B: Bike Lane Option

ID	Facility Type	Street	To	From	Distance (feet)	Construction Cost	Design Cost (25%)	Contingency Cost (20%)	Total Cost
A6b	Buffered Bike Lane	Peachtree Street	Buford Connector	Spring Street	500	$16,702	$4,175	$3,340	$24,217
A7b	Bike Lane	Peachtree Street	Spring Street	Peachtree Circle	700	$19,147	$4,787	$3,829	$27,764
A8b	Buffered Bike Lane	Peachtree Street	Peachtree Circle	West Peachtree Street	460	$15,366	$3,841	$3,073	$22,280
A13b	Bike Lane	Peachtree Street	West Peachtree Street	Alliance Theatre	2,050	$49,576	$12,394	$9,915	$71,885
A14b	Bike Lane	Peachtree Street	Alliance Theatre	14th Street	1,020	$29,393	$7,348	$5,879	$42,620
A16b	Bike Lane	Peachtree Street	14th Street	10th Street	1,880	$77,368	$19,342	$15,474	$112,184
A19b	Bike Lane	Peachtree Street	10th Street	North Avenue	3,800	$91,897	$22,974	$18,379	$133,250
A21b	Bike Lane	Peachtree Street	North Avenue	Linden Avenue	540	$11,860	$2,965	$2,372	$17,197
Total					**10,950**	**$311,309**	**$77,827**	**$62,262**	**$451,397**

Corridor A Projects

ID	Facility Type	Street	To	From	Distance (miles)	Cross Section(s)	Construction Cost	Design Cost (25%)	Contingency Cost (20%)	Total Cost
1005	Bike Lane	Murphy Avenue	Ralph David Abernathy Boulevard	Sylvan Road	n/a	n/a	n/a	n/a	n/a	n/a
1014	Protected Cycle Track	West Peachtree Street	12th Street	North Avenue	n/a	n/a	n/a	n/a	n/a	n/a
1019	Shared Lane Marking	Peachtree Street	West Peachtree Street	North Avenue	n/a	n/a	n/a	n/a	n/a	n/a
1025	Bike Lane	Peachtree Street	North Avenue	Ivan Allen Jr Boulevard	n/a	n/a	n/a	n/a	n/a	n/a
5000	Bike Lane	Peachtree Road	Colonial Homes Drive	Interstate 85	1.1	A1, A2, A3, A4	$158,511	$39,628	$31,702	$229,841
5001	Bike Lane	Peachtree Street	Interstate 85	Linden Avenue	2.2	A5, A6b, A7b, A8b, A13b, A14b, A16b, A19b, A21b	$329,705	$82,426	$65,941	$478,072
5002	Shared Lane Marking	Peachtree Street	Interstate 85	Linden Avenue	2.2	A5, A6a, A7a, A8a, A13a, A14a, A16a, A19a, A21a	$67,739	$16,935	$13,548	$98,221
5003	Cycle Track	West Peachtree Street	Peachtree Street	Porter Place	2.1	A12, A15, A17, A18, A20, A22, A24, A26, A27	$210,333	$52,583	$42,067	$304,982
5004	Shared Lane Markings	Peachtree Street	Porter Place	John Portman Boulevard	0.2	A28, A48	$21,056	$5,264	$4,211	$30,531
5005	Cycle Track	Centennial Olympic Park Drive	Marietta Street	Nelson Street	0.6	A43, A44, A45, A46	$182,661	$45,665	$36,532	$264,858
5006	Cycle Track	Gilmer Street-Courtland Street-Washington Street	Peachtree Center Avenue	Memorial Drive	0.6	A29, A30	$197,456	$49,364	$39,491	$286,312
5007	Buffered Bike Lane	Memorial Drive	Peachtree Street	Fraser Avenue	0.5	A32	$98,273	$24,568	$19,655	$142,496
5008	Multi-Use Path	Peters Street-Whitehall Street	Walker Street	Ralph David Abernathy Boulevard	0.8	A34, A35, A37	$610,596	$152,649	$122,119	$885,364
5009	Bike Lane	Peachtree Street	Mitchell Street	Memorial Drive	0.5	A31	$58,524	$14,631	$11,705	$84,859
5010	Bike Lane	Whitehall Street-Murphy Avenue	Peachtree Street	Sylvan Road	2.0	A33, A36, A39, A40, A42	$229,360	$57,340	$45,872	$332,572
5011	Multi-Use Path	Lee Street	Sylvan Road	Ralph David Abernathy Boulevard	0.9	A38, A41	$683,150	$170,788	$136,630	$990,568
5012	Bike Lane/Shared Lane Marking	17th Street	West Peachtree Street	Peachtree Circle	0.2	A9, A10, A11	$11,805	$2,951	$2,361	$17,117
5013	Cycle Track	Courtland Street	Ponce de Leon Avenue	Ralph McGill Boulevard	0.6	A47	$64,545	$16,136	$12,909	$93,590
Total					**14.6**		**$2,923,713**	**$730,928**	**$584,743**	**$4,239,384**

Notes

1. 1000 series: Facilities to be built in 2013

2. 2000 series: Facilities to be built in 2014

3. 3000 series: Facilities to be built in 2015

4. 4000 series: Unfunded high-priority projects we hope to fund by 2016

5. 5000 series: Facilities developed as part of the *Cycle Atlanta: Phase 1.0 Study*; 5000 - 5019 is for Corridor A projects, 5020 - 5039 is for Corridor B projects, 5040-5059 is for Corridor C projects, 5060 - 5079 is for Corridor D projects, and 5080 - 5099 is for Corridor E projects

Corridor A Cross Sections

ID	Facility Type	Street	To	From	Distance (feet)	Construction Cost	Design Cost (25%)	Contingency Cost (20%)	Total Cost
A1	Bike Lane	Peachtree Road	Colonial Homes Drive	Brighton Road	1,990	$54,433	$13,608	$10,887	$78,928
A2	Bike Lane	Peachtree Road	Brighton Road	Collier Road	640	$17,506	$4,377	$3,501	$25,384
A3	Bike Lane	Peachtree Road	Collier Road	Peachtree Road Bridge	2,600	$71,119	$17,780	$14,224	$103,122
A4	Buffered Bike Lane	Peachtree Road	Peachtree Road Bridge	Peachtree Road Bridge	420	$15,453	$3,863	$3,091	$22,407
A5	Buffered Bike Lane	Peachtree Street	Peachtree Road Bridge	Northbound ramp to Spring-Buford Connector	500	$18,397	$4,599	$3,679	$26,675
A6a	Buffered Bike Lane	Peachtree Street	Northbound ramp to Spring-Buford Connector	Spring Street	500	$18,397	$4,599	$3,679	$26,675
A6b	Buffered Bike Lane	Peachtree Street	Northbound ramp to Spring-Buford Connector	Spring Street	500	$16,702	$4,175	$3,340	$24,217
A7a	Shared Lane Marking	Peachtree Street	Spring Street	Peachtree Circle	700	$1,689	$422	$338	$2,450
A7b	Bike Lane	Peachtree Street	Spring Street	Peachtree Circle	700	$19,147	$4,787	$3,829	$27,764
A8a	Shared Lane Marking	Peachtree Street	Peachtree Circle	West Peachtree Street	460	$1,696	$424	$339	$2,459
A8b	Buffered Bike Lane	Peachtree Street	Peachtree Circle	West Peachtree Street	460	$15,366	$3,841	$3,073	$22,280
A9	Bike Lane	17th Street	West Peachtree Street	Peachtree Street	450	$9,897	$2,474	$1,979	$14,351
A10	Shared Lane Marking	17th Street	Peachtree Street	End of back of commercial buildings	390	$848	$212	$170	$1,230
A11	Shared Lane Marking	17th Street	Back of commercial buildings	Peachtree Circle	420	$1,060	$265	$212	$1,537
A12	Cycle Track	West Peachtree Street	Peachtree Street	14th Street	2,850	$50,616	$12,654	$10,123	$73,393
A13a	Shared Lane Marking	Peachtree Street	West Peachtree Street	Alliance Theatre	2,050	$5,936	$1,484	$1,187	$8,607
A13b	Bike Lane	Peachtree Street	West Peachtree Street	Alliance Theatre	2,050	$49,576	$12,394	$9,915	$71,885
A14a	Shared Lane Marking	Peachtree Street	Alliance Theatre	14th Street	1,020	$5,936	$1,484	$1,187	$8,607
A14b	Bike Lane	Peachtree Street	Alliance Theatre	14th Street	1,020	$29,393	$7,348	$5,879	$42,620
A15	Cycle Track	West Peachtree Street	14th Street	12th Street	870	$15,451	$3,863	$3,090	$22,404
A16a	Shared Lane Marking	Peachtree Street	14th Street	10th Street	1,880	$5,512	$1,378	$1,102	$7,992
A16b	Bike Lane	Peachtree Street	14th Street	10th Street	1,880	$77,368	$19,342	$15,474	$112,184
A17	Cycle Track	West Peachtree Street	12th Street	8th Street	1,860	$33,034	$8,258	$6,607	$47,899
A18	Cycle Track	West Peachtree Street	8th Street	5th Street	1,180	$24,577	$6,144	$4,915	$35,636
A19a	Shared Lane Marking	Peachtree Street	10th Street	North Avenue	3,800	$10,812	$2,703	$2,162	$15,677
A19b	Bike Lane	Peachtree Street	10th Street	North Avenue	3,800	$91,897	$22,974	$18,379	$133,250
A20	Cycle Track	West Peachtree Street	5th Street	North Avenue	1,830	$32,501	$8,125	$6,500	$47,126
A21a	Shared Lane Marking	Peachtree Street	North Avenue	Linden Avenue	540	$1,908	$477	$382	$2,767
A21b	Bike Lane	Peachtree Street	North Avenue	Linden Avenue	540	$11,860	$2,965	$2,372	$17,197
A22	Cycle Track	West Peachtree Street	North Avenue	Baltimore Place	1,100	$19,536	$4,884	$3,907	$28,327
A23	Bike Lane	Peachtree Street	Linden Avenue	Pine Street	880	$21,088	$5,272	$4,218	$30,577
A24	Cycle Track	West Peachtree Street	Baltimore Place	Pine Street	340	$5,698	$1,425	$1,140	$8,263
A25	Bike Lane	Peachtree Street	Pine Street	Ivan Allen Jr Boulevard	1,140	$31,183	$7,796	$6,237	$45,215
A26	Cycle Track	West Peachtree Street	Ivan Allen Jr Boulevard	Porter Place	110	$3,248	$812	$650	$4,710
A27	Cycle Track	West Peachtree Street	Pine Street	Ivan Allen Jr Boulevard	940	$25,671	$6,418	$5,134	$37,224
A28	Shared Lane Marking	Peachtree Street	West Peachtree Street	John Portman Boulevard	820	$14,582	$3,646	$2,916	$21,144
A29	Cycle Track	Gilmer Street	Peachtree Center Avenue	Courtland Avenue	490	$54,115	$13,529	$10,823	$78,467
A30	Cycle Track	Courtland Avenue/ Washington Street	Gilmer Street	Memorial Drive	2,910	$143,341	$35,835	$28,668	$207,844

Table continues on next page.

Corridor A Cross Sections (continued from previous page)

ID	Facility Type	Street	To	From	Distance (feet)	Construction Cost	Design Cost (25%)	Contingency Cost (20%)	Total Cost
A31	Bike Lane	Peachtree Street	Martin Luther King Jr Boulevard	Memorial Drive	2,420	$58,524	$14,631	$11,705	$84,859
A32	Buffered Bike Lane	Memorial Drive	Peachtree Street	Fraser Street	2,790	$98,273	$24,568	$19,655	$142,496
A33	Buffered Bike Lane	Whitehall Street	Peachtree Street	Interstate 20	4,720	$142,701	$35,675	$28,540	$206,917
A34	Multi-Use Path	Peters Street	Walker Street	Chapel Street	2,280	$310,800	$77,700	$62,160	$450,660
A35	Multi-Use Path	Whitehall Street	Chapel Street	Oak Street	1,050	$140,700	$35,175	$28,140	$204,015
A36	Bike Lane	Murphy Avenue	Interstate 20	Lee Street	1,230	$27,052	$6,763	$5,410	$39,225
A37	Multi-Use Path	Whitehall Street	Oak Street	Ralph David Abernathy Boulevard	880	$159,096	$39,774	$31,819	$230,689
A38	Multi-Use Path	Lee Street	Ralph David Abernathy Boulevard	Murphy Avenue	2,470	$331,700	$82,925	$66,340	$480,965
A39	Bike Lane	Murphy Avenue	Lee Street	Allene Avenue	2,640	$28,291	$7,073	$5,658	$41,022
A40	Bike Lane	Murphy Avenue	Allene Avenue	Atlanta BeltLine	1,500	$16,420	$4,105	$3,284	$23,809
A41	Multi-Use Path	Lee Street	Murphy Avenue	Sylvan Road	2,250	$351,450	$87,863	$70,290	$509,603
A42	Buffered Bike Lane	Murphy Avenue	Atlanta BeltLine	Sylvan Road	710	$14,896	$3,724	$2,979	$21,599
A43	Cycle Track	Centennial Olympic Park Drive	Marietta Street	Phillips Arena	790	$16,734	$4,183	$3,347	$24,264
A44	Cycle Track	Centennial Olympic Park Drive	Phillips Arena	Martin Luther King Jr Drive	1,270	$62,348	$15,587	$12,470	$90,404
A45	Cycle Track	Centennial Olympic Park Drive	Martin Luther King Jr Drive	Chapel Street	830	$54,605	$13,651	$10,921	$79,178
A46	Cycle Track	Centennial Olympic Park Drive	Chapel Street	Nelson Street	510	$48,974	$12,244	$9,795	$71,013
A47	Cycle Track	Courtland Street	Ponce de Leon Avenue	Ralph McGill Boulevard	3,000	$64,545	$16,136	$12,909	$93,590
A48	Shared Lane Marking	Peachtree Street	Porter Place	West Peachtree Street	400	$6,473	$1,618	$1,295	$9,386
Total					**78,370**	**$2,960,131**	**$740,033**	**$592,026**	**$4,292,190**

Corridor B Cost Estimates

The following tables include additional cost estimate information for projects and cross sections for *Corridor B: Knight Park– Midtown–Virginia-Highland*. The tables include the following information:

- Project or Cross Section ID
- Facility Type
- Street
- Beginning Point (To)
- Ending Point (From)
- Segment Length (Distance)
- Construction Cost
- Design Cost
- Contingency Cost
- Total Cost

Cost estimates include an estimate of probable cost for construction, design cost (25% of construction cost), and contingency cost (20% of construction costs). Construction costs can include re-striping costs, signal improvements, new pavement markings, and multi-use path construction. Construction costs do not include resurfacing costs. Cost estimates for 1000 to 4000 series projects are not provided because they have already been funded, are in the process of being designed, or are in the process of being constructed.

Corridor B Projects

ID	Facility Type	Street	To	From	Distance (miles)	Cross Section(s)	Construction Cost	Design Cost (25%)	Contingency Cost (20%)	Total Cost
1013	Raised Cycle Track	10th Street	Williams Street	Fowler Street	n/a	n/a	n/a	n/a	n/a	n/a
5020	Bike Lane-Bufferd Bike Lane	West Marietta Street	Marietta Boulevard	Marietta Street	1.2	B1, B2, B3	$164,299	$41,075	$32,860	$238,234
5021	Bike Boulevard	8th Street	Brady Avenue	Northside Drive	0.1	B4	$1,327	$332	$265	$1,925
5022	Bike Boulevard	8th Street	Northside Drive	Hemphill Avenue	0.2	B5	$116,003	$29,001	$23,201	$168,204
5023	Multi-Use Path	10th Street	Howell Mill Road	Northside Drive	0.2	B23	$242,000	$60,500	$48,400	$350,900
5024	Multi-Use Path	10th Street	Northside Drive	Fowler Street	0.8	B7	$465,300	$116,325	$93,060	$674,685
5025	Bike Lane	Ferst Drive	Hemphill Avenue	Atlantic Drive	0.2	B6, B8	$9,312	$2,328	$1,862	$13,503
5026	Cycle Track	Williams Street	12th Street	8th Street	0.3	B9	$93,546	$23,387	$18,709	$135,642
5027	Bike Boulevard	12th Street	Williams Street	Piedmont Avenue	0.7	B10, B11, B12, B13, B14, B15	$20,295	$5,074	$4,059	$29,428
5028	Bike Boulevard	8th Street	Williams Street	10th Street	0.8	B16, B17, B18, B19, B20, B21, B22	$15,704	$3,926	$3,141	$22,770
5029	Bike Lane	14th Street	Howell Mill Road	Hemphill Avenue	0.2	B24	$31,438	$7,860	$6,288	$45,586
5030	Bike Lane	Kanuga Street	Virginia Avenue	Monroe Drive	0.1	B25	$15,325	$3,831	$3,065	$22,221
Total					**4.8**		**$1,174,550**	**$293,638**	**$234,910**	**$1,703,098**

Notes

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3. 3000 series: Facilities to be built in 2015
4. 4000 series: Unfunded high-priority projects we hope to fund by 2016
5. 5000 series: Facilities developed as part of the *Cycle Atlanta: Phase 1.0 Study*; 5000 - 5019 is for Corridor A projects, 5020 - 5039 is for Corridor B projects, 5040-5059 is for Corridor C projects, 5060 - 5079 is for Corridor D projects, and 5080 - 5099 is for Corridor E projects

Corridor B Cross Sections

ID	Facility Type	Street	To	From	Distance (feet)	Construction Cost	Design Cost (25%)	Contingency Cost (20%)	Total Cost
B1	Bike Lane	West Marietta Street	Marietta Boulevard	Perry Boulevard	4,380	$105,923	$26,481	$21,185	$153,588
B2	Buffered Bike Lane	West Marietta Street	Perry Boulevard	Brady Avenue	1,260	$42,365	$10,591	$8,473	$61,430
B3	Bike Lane	West Mariettta Street	Brady Avenue	Marietta Street	770	$16,011	$4,003	$3,202	$23,216
B4	Shared Lane Marking	8th Street	Brady Avenue	Howell Mill Road	550	$1,327	$332	$265	$1,925
B5	Shared Lane Marking	8th Street	Howell Mill Road	Northside Drive	830	$116,003	$29,001	$23,201	$168,204
B6	Bike Lane	Ferst Drive	Hemphill Avenue	Dalney Street	430	$4,835	$1,209	$967	$7,010
B7	Multi-Use Path	10th Street	Northside Drive	Fowler Street	4,230	$465,300	$116,325	$93,060	$674,685
B8	Bike Lane	Ferst Drive	State Street	Atlantic Drive	430	$4,478	$1,119	$896	$6,493
B9	Cycle Track	Williams Street	8th Street	12th Street	1,770	$93,546	$23,387	$18,709	$135,642
B10	Bike Lane	12th Street	Williams Street	Spring Street	430	$4,908	$1,227	$982	$7,116
B11	Shared Lane Marking	12th Street	Spring Street	West Peachtree Street	430	$1,038	$259	$208	$1,505
B12	Contra-Flow Lane	12th Street	West Peachtree Street	Crescent Avenue	1,130	$7,247	$1,812	$1,449	$10,508
B13	Shared Lane Marking	12th Street	Crescent Avenue	Peachtree Street	420	$1,014	$253	$203	$1,470
B14	Shared Lane Marking	12th Street	Peachtree Street	Juniper Street	260	$627	$157	$125	$910
B15	Shared Lane Marking	12th Street	Junipter Street	Piedmont Avenue	1,020	$5,462	$1,365	$1,092	$7,919
B16	Shared Lane Marking	8th Street	Williams Street	Spring Street	550	$1,327	$332	$265	$1,925
B17	Shared Lane Marking	8th Street	Spring Street	West Peachtree Street	460	$1,110	$278	$222	$1,610
B18	Contra-Flow Lane	8th Street	West Peachtree Street	Cypress Street	490	$3,143	$786	$629	$4,557
B19	Contra-Flow Lane	8th Street	Cypress Street	Peachtree Street	460	$2,950	$738	$590	$4,278
B20	Shared Lane Marking	8th Street	Peachtree Street	Piedmont Avenue	950	$2,293	$573	$459	$3,324
B21	Contra-Flow Lane	8th Street	Piedmont Avenue	Myrtle Street	460	$2,950	$738	$590	$4,278
B22	Shared Lane Marking	Myrtle Street	8th Street	10th Street	800	$1,931	$483	$386	$2,799
B23	Bike Lane	10th Street	Howell Mill Road	Northside Drive	1,100	$242,000	$60,500	$48,400	$350,900
B24	Bike Lane	14th Street	Howell Mill Road	Hemphill Avenue	1,300	$31,438	$7,860	$6,288	$45,586
B25	Bike Lane	Kanuga Street	Virginia Avenue	Monroe Drive	410	$15,325	$3,831	$3,065	$22,221
Total					**25,320**	**$1,174,550**	**$293,638**	**$234,910**	**$1,703,098**

Corridor C Cost Estimates

The following tables include additional cost estimate information for projects and cross sections for *Corridor C: Grove Park– Downtown–Poncey-Highland*. The tables include the following information:

- Project or Cross Section ID
- Facility Type
- Street
- Beginning Point (To)
- Ending Point (From)
- Segment Length (Distance)
- Construction Cost
- Design Cost
- Contingency Cost
- Total Cost

Cost estimates include an estimate of probable cost for construction, design cost (25% of construction cost), and contingency cost (20% of construction costs). Construction costs can include re-striping costs, signal improvements, new pavement markings, and multi-use path construction. Construction costs do not include resurfacing costs. Cost estimates for 1000 to 4000 series projects are not provided because they have already been funded, are in the process of being designed, or are in the process of being constructed.

Corridor C Projects

ID	Facility Type	Street	To	From	Distance (miles)	Cross Section(s)	Construction Cost	Design Cost (25%)	Contingency Cost (20%)	Total Cost
2016	Bike Lane	Joseph E Boone Boulevard	Holly Street	Northside Drive						
5040	Bike Lane	Joseph E Boone Boulevard	Chappell Road	Northside Drive	1.3	C1, C11, C12	$149,517	$37,379	$29,903	$216,799
5041	Bike Lane	Ivan Allen Jr Boulevard	Centennial Olympic Park Drive	Williams Street	0.1	C3	$11,608	$2,902	$2,322	$16,832
5042	Contra-Flow Lane	Porter Place	West Peachtree Street	Peachtree Street	0.1	C14	$2,950	$738	$590	$4,278
5043	Bike Lane-Bufferd Bike Lane	Ivan Allen Jr Boulevard-Ralph McGill Boulevard	West Peachtree Street	Courtland Street	0.1	C13	$27,968	$6,992	$5,594	$40,554
5044	Bike Lane	Ralph McGill Boulevard	Courtland Street	Freedom Parkway	3.0	C5, C6, C7, C8, C9, C10	$416,841	$104,210	$83,368	$604,419
Total					**4.5**		**$608,884**	**$152,221**	**$121,777**	**$882,881**

Notes

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4. 4000 series: Unfunded high-priority projects we hope to fund by 2016
5. 5000 series: Facilities developed as part of the *Cycle Atlanta: Phase 1.0 Study*; 5000 - 5019 is for Corridor A projects, 5020 - 5039 is for Corridor B projects, 5040-5059 is for Corridor C projects, 5060 - 5079 is for Corridor D projects, and 5080 - 5099 is for Corridor E projects

Corridor C Cross Sections

ID	Facility Type	Street	To	From	Distance (feet)	Construction Cost	Design Cost (25%)	Contingency Cost (20%)	Total Cost
C1	Bike Lane	Joseph E. Boone Boulevard	Chappell Road	Joseph E. Lowery Boulevard	4,750	$96,797	$24,199	$19,359	$140,356
C3	Bike Lane	Ivan Allen Jr Boulevard	Centennial Olympic Park Drive	Williams Street	480	$11,608	$2,902	$2,322	$16,832
C4	Buffered Bike Lane	Ralph McGill Boulevard	Peachtree Street	Courtland Street	500	$14,909	$3,727	$2,982	$21,618
C5	Bike Lane	Ralph McGill Boulevard	Courtland Street	Piedmont Avenue	640	$15,477	$3,869	$3,095	$22,442
C6	Bike Lane	Ralph McGill Boulevard	Piedmont Avenue	Central Park Place	8,350	$201,931	$50,483	$40,386	$292,800
C7	Bike Lane	Ralph McGill Boulevard	Central Park Place	Midblock between Boulevard and Glen Iris Drive	2,490	$60,217	$15,054	$12,043	$87,314
C8	Bike Lane	Ralph McGill Boulevard	Midblock between Boulevard and Glen Iris Drive	Wabash Avenue	980	$21,553	$5,388	$4,311	$31,253
C9	Bike Lane	Ralph McGill Boulevard	Wabash Avenue	Ashley Avenue	1,280	$30,955	$7,739	$6,191	$44,884
C10	Bike Lane	Ralph McGill Boulevard	Ashley Avenue	Freedom Parkway	1,840	$86,708	$21,677	$17,342	$125,726
C11	Bike Lane	Joseph E. Boone Boulevard	Joseph E. Lowery Boulevard	James P Brawley Drive	1,490	$36,033	$9,008	$7,207	$52,248
C12	Bike Lane	Joseph E. Boone Boulevard	Maple Street	Northside Drive	690	$16,687	$4,172	$3,337	$24,195
C13	Bike Lane	Ivan Allen Jr Boulevard	West Peachtree Street	Peachtree Street	540	$13,059	$3,265	$2,612	$18,936
C14	Contra-Flow Lane	Porter Place	West Peachtree Street	Peachtree Street	460	$2,950	$738	$590	$4,278
Total					**24,490**	**$608,884**	**$152,221**	**$121,777**	**$882,881**

Corridor D Cost Estimates

The following tables include additional cost estimate information for projects and cross sections for *Corridor D: Mozley Park– Downtown–Grant Park*. The tables include the following information:

- Project or Cross Section ID
- Facility Type
- Street
- Beginning Point (To)
- Ending Point (From)
- Segment Length (Distance)
- Construction Cost
- Design Cost
- Contingency Cost
- Total Cost

Cost estimates include an estimate of probable cost for construction, design cost (25% of construction cost), and contingency cost (20% of construction costs). Construction costs can include re-striping costs, signal improvements, new pavement markings, and multi-use path construction. Construction costs do not include resurfacing costs. Cost estimates for 1000 to 4000 series projects are not provided because they have already been funded, are in the process of being designed, or are in the process of being constructed.

Corridor D Projects

ID	Facility Type	Street	To	From	Distance (miles)	Cross Section(s)	Construction Cost	Design Cost (25%)	Contingency Cost (20%)	Total Cost
2019	Bike Lane	Martin Luther King Jr Drive-Mitchell Street	James P Brawley Drive	Magnum Street	n/a	n/a	n/a	n/a	n/a	n/a
2031	Hard Surface Multi-Use Path	Lena Street	Booker Street	Magnum Street	n/a	n/a	n/a	n/a	n/a	n/a
2032	Bike Boulevard	Fraser Street-Woodward Avenue	Memorial Drive	Chastain Street	n/a	n/a	n/a	n/a	n/a	n/a
5060	Bike Lane	Mitchell Street	Spring Street	Washington Street	0.4	D4	$50,145	$12,536	$10,029	$72,710
5061	Multi-Use Path	Andrew Young International Boulevard	Georgia Dome Drive	Marietta Street	n/a	n/a	n/a	n/a	n/a	n/a
5062	Multi-Use Path	Capital Square-Memorial Drive	Washington Street	Fraser Street	n/a	n/a	n/a	n/a	n/a	n/a
5063	Bike Boulevard	Fraser Street-Woodward Avenue	Memorial Drive	Chastain Street	1.3	D5, D6	$148,069	$37,017	$29,614	$214,700
Total					**4.5**		**$608,884**	**$152,221**	**$121,777**	**$882,881**

Notes

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Corridor D Cross Sections

ID	Facility Type	Street	To	From	Distance (feet)	Construction Cost	Design Cost (25%)	Contingency Cost (20%)	Total Cost
D1	no bikeway facility	Martin Luther King Jr Drive	Chappell Road	Ollie Street	1,700	$46,818	$11,705	$9,364	$67,886
D4	Bike Lane	Mitchell Street	Spring Street	Washington Street	2,280	$50,145	$12,536	$10,029	$72,710
D5	Shared Lane Marking	Woodward Avenue	Kelly Street	Chastain Street	5,090	$141,984	$35,496	$28,397	$205,877
D6	Shared Lane Marking	Woodward Avenue	Memorial Drive	Connally Street	1,900	$30,286	$7,572	$6,057	$43,915
Total					**10,970**	**$269,233**	**$67,308**	**$53,847**	**$390,388**

Corridor E Cost Estimates

The following tables include additional cost estimate information for projects and cross sections for *Corridor E: Underwood Hills– Downtown–Candler Park*. The tables include the following information:

- Project or Cross Section ID
- Facility Type
- Street
- Beginning Point (To)
- Ending Point (From)
- Segment Length (Distance)
- Construction Cost
- Design Cost
- Contingency Cost
- Total Cost

Cost estimates include an estimate of probable cost for construction, design cost (25% of construction cost), and contingency cost (20% of construction costs). Construction costs can include re-striping costs, signal improvements, new pavement markings, and multi-use path construction. Construction costs do not include resurfacing costs. Cost estimates for 1000 to 4000 series projects are not provided because they have already been funded, are in the process of being designed, or are in the process of being constructed.

Corridor E Projects

ID	Facility Type	Street	To	From	Distance (miles)	Cross Section(s)	Construction Cost	Design Cost (25%)	Contingency Cost (20%)	Total Cost
1003	Bike Lane	Edgewood Avenue	Boulevard	Hurt Street	n/a	n/a	n/a	n/a	n/a	n/a
2007	Bike Lane	Edgewood Avenue-Auburn Avenue	Peachtree Street	Jackson Street	n/a	n/a	n/a	n/a	n/a	n/a
5080	Bike Lane/Shared Lane Marking	Howell Mill Road	Chattahoochee Avenue	West Marietta Street	1.5	E1, E2, E3, E4, E5	$119,679	$29,920	$23,936	$173,535
5081	Bike Lane	Marietta Street	Howell Mill Road	Baker Street	1.6	E6, E7, E8, E11, E12, E14, E15	$189,627	$47,407	$37,925	$274,960
5082	Shared Lane Marking	Hampton Street and 3rd Street	Marietta Street	8th Street	0.2	E21, E22	$2,848	$712	$570	$4,129
5083	Multi-Use Path	Tech Parkway	Northside Drive	North Avenue	0.8	E10	$101,470	$25,367	$20,294	$147,131
5084	Cycle Track	Luckie Street	North Avenue	Baker Street	0.7	E13, E16	$309,021	$77,255	$61,804	$448,080
5085	Cycle Track	Baker Street and Centennial Olympic Park Drive	Baker Street from Luckie Street to Centennial Oympic Park Drive	Centennial Olympic Park Drive	0.7	Centennial Olympic Park concept	$322,025	$80,506	$64,405	$466,937
5086	Shared Lane Marking	Park Avenue Place	Marietta Street	Baker Street	0.2	Centennial Olympic Park concept	$2,365	$591	$473	$3,429
5087	Contra-Flow Lane	Walton Street	Centennial Olympic Park Drive	Peachtree Street	0.3	E17	$75,010	$18,752	$15,002	$108,764
5088	Share Lane Marking and Bike Lanes	Euclid Avenue	Edgewood Avenue	Moreland Avenue	1.0	E18, E19, E20	$22,865	$5,716	$4,573	$33,155
5089	Bike Lane	Brady Avenue	Howell Mill Road	West Marietta Street	0.3	E23, E24	$23,730	$5,933	$4,746	$34,409
Total					**7.2**		**$1,168,640**	**$292,160**	**$233,728**	**$1,694,529**

Notes

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Corridor E Cross Sections

ID	Facility Type	Street	To	From	Distance (feet)	Construction Cost	Design Cost (25%)	Contingency Cost (20%)	Total Cost
E1	Bike Lane	Howell Mill Road	Chattahoochee Avenue	Morris Street	1,240	$25,269	$6,317	$5,054	$36,640
E2	Bike Lane	Howell Mill Road	Morris Street	Trabert Avenue	1,299	$31,414	$7,854	$6,283	$45,551
E3	Bike Lane	Howell Mill Road	Trabert Avenue	Huff Road	2,080	$30,333	$7,583	$6,067	$43,983
E4	Bike Lane	Howell Mill Road	Huff Road	14th Street	700	$16,928	$4,232	$3,386	$24,546
E5	Shared Lane Marking	Howell Mill Road	14th Street	West Marietta	2,390	$15,734	$3,934	$3,147	$22,815
E6	Bike Lane	Marietta Street	Howell Mill Road	Northside Drive	1,720	$41,595	$10,399	$8,319	$60,313
E7	Bike Lane	Marietta Street	Northside Drive	Means Street	1,590	$33,459	$8,365	$6,692	$48,515
E8	Bike Lane	Marietta Street	Means Street	North Avenue Bridge	1,240	$29,987	$7,497	$5,997	$43,482
E10	Multi-Use Path	Tech Parkway	Northside Drive	North Avenue	4,330	$101,470	$25,367	$20,294	$147,131
E11	Buffered Bike Lane	Marietta Street	North Avenue Bridge	North Avenue Bridge	170	$5,140	$1,285	$1,028	$7,453
E12	Bike Lane	Marietta Street	North Avenue Bridge	Ivan Allen Jr Boulevard	2,460	$51,152	$12,788	$10,230	$74,170
E13	Cycle Track	Luckie Street	North Avenue	Pine Street	1,260	$185,625	$46,406	$37,125	$269,156
E14	Bike Lane	Marietta Street	Ivan Allen Jr Boulevard	Simpson Street	330	$7,981	$1,995	$1,596	$11,572
E15	Bike Lane	Marietta Street	Simpson Street	Baker Street	840	$20,314	$5,079	$4,063	$29,455
E16	Cycle Track	Luckie Street	Pine Street	Baker Street	2,240	$123,396	$30,849	$24,679	$178,924
E17	Contra-Flow Lane	Walton Street	Centennial Olympic Park Drive	Peachtree Street	1,620	$75,010	$18,752	$15,002	$108,764
E18	Shared Lane Marking	Euclid Avenue	Edgewood Avenue	Alta Avenue	3,300	$7,964	$1,991	$1,593	$11,548
E19	Shared Lane Marking	Euclid Avenue	Alta Avenue	Austin Avenue	360	$869	$217	$174	$1,260
E20	Bike Lane	Euclid Avenue	Auston Avenue	Moreland Avenue	1,380	$14,033	$3,508	$2,807	$20,347
E21	Shared Lane Marking	Hampton Street	Marietta Street	3rd Street	250	$603	$151	$121	$875
E22	Shared Lane Marking	3rd Street	Hampton Street	8th Street	930	$2,244	$561	$449	$3,254
E23	Bike Lane	Brady Avenue	Howell Mill Road	10th Street	1,100	$14,502	$3,625	$2,900	$21,027
E24	Bike Lane	Brady Avenue	10th Street	West Marietta	730	$9,228	$2,307	$1,846	$13,381
Centennial Olympic Park concept	Cycle Track	Baker Street	Luckie Street	Centennial Olympic Park Drive	1,020	$108,986	$27,247	$21,797	$158,030
Centennial Olympic Park concept	Cycle Track	Centennial Olympic Park Drive	Ivan Allen Jr Boulevard	Marietta Street	2,630	$213,039	$53,260	$42,608	$308,907
Centennial Olympic Park concept	Shared Lane Marking	Park Avenue	Marietta Street	Baker Street	980	$2,365	$591	$473	$3,429
Total					**38,189**	**$1,168,640**	**$292,160**	**$233,728**	**$1,694,529**