

Northlake Area Plan

Transportation Section



Existing Conditions

Jurisdictions & Representatives

- Mecklenburg-Union Metropolitan Planning Organization (MUMPO) – *Bob Cook*
- North Carolina Department of Transportation – *Aldie Whitmore*
 - I-77 and I-485
 - W. T. Harris Blvd, Mt. Holly-Huntersville Road, Reames Road, Statesville Road, Old Statesville Road, Lakeview Road, Beatties Ford Road
- City of Charlotte – *Jim Kimbler*

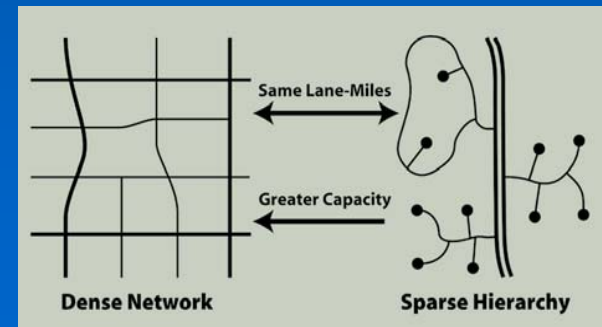
Preliminary Staff Assessment

<u>Variable</u>	<u>Rating</u>
Congestion	Moderate to High
Connectivity	Low
Pedestrian-Friendly	Low
Bicycle-Friendly	Low
Transportation Options	Low
Mixture of Land Use	Low

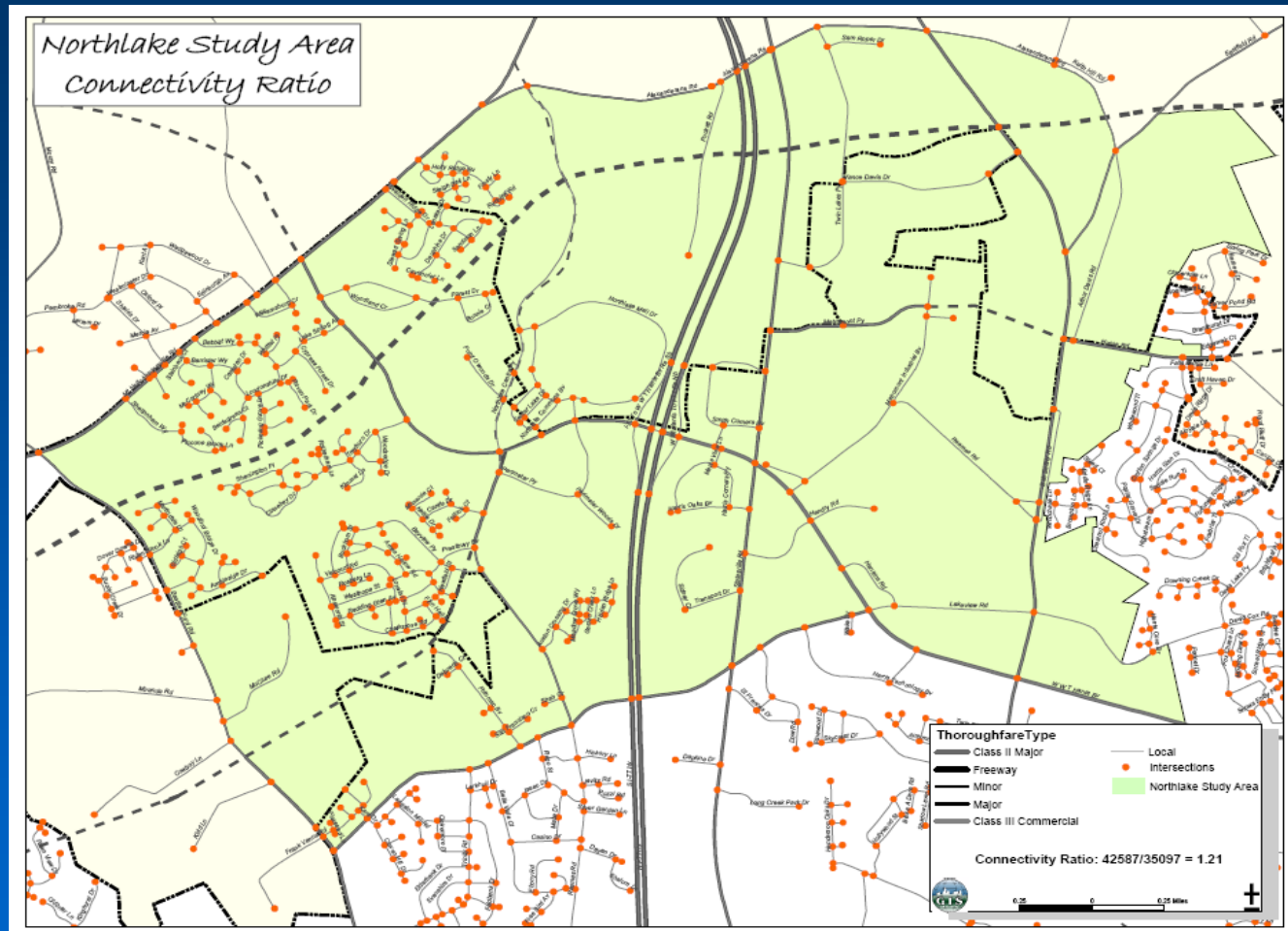
Why is Connectivity Important?



- Disperses traffic
- Travel choices and route options
- Reduces Vehicle Miles of Travel
- Pedestrian, Bicycle and Transit friendly
- Emergency Access/Response Times



Where does Northlake Stand on Connectivity?



Score: 1.21

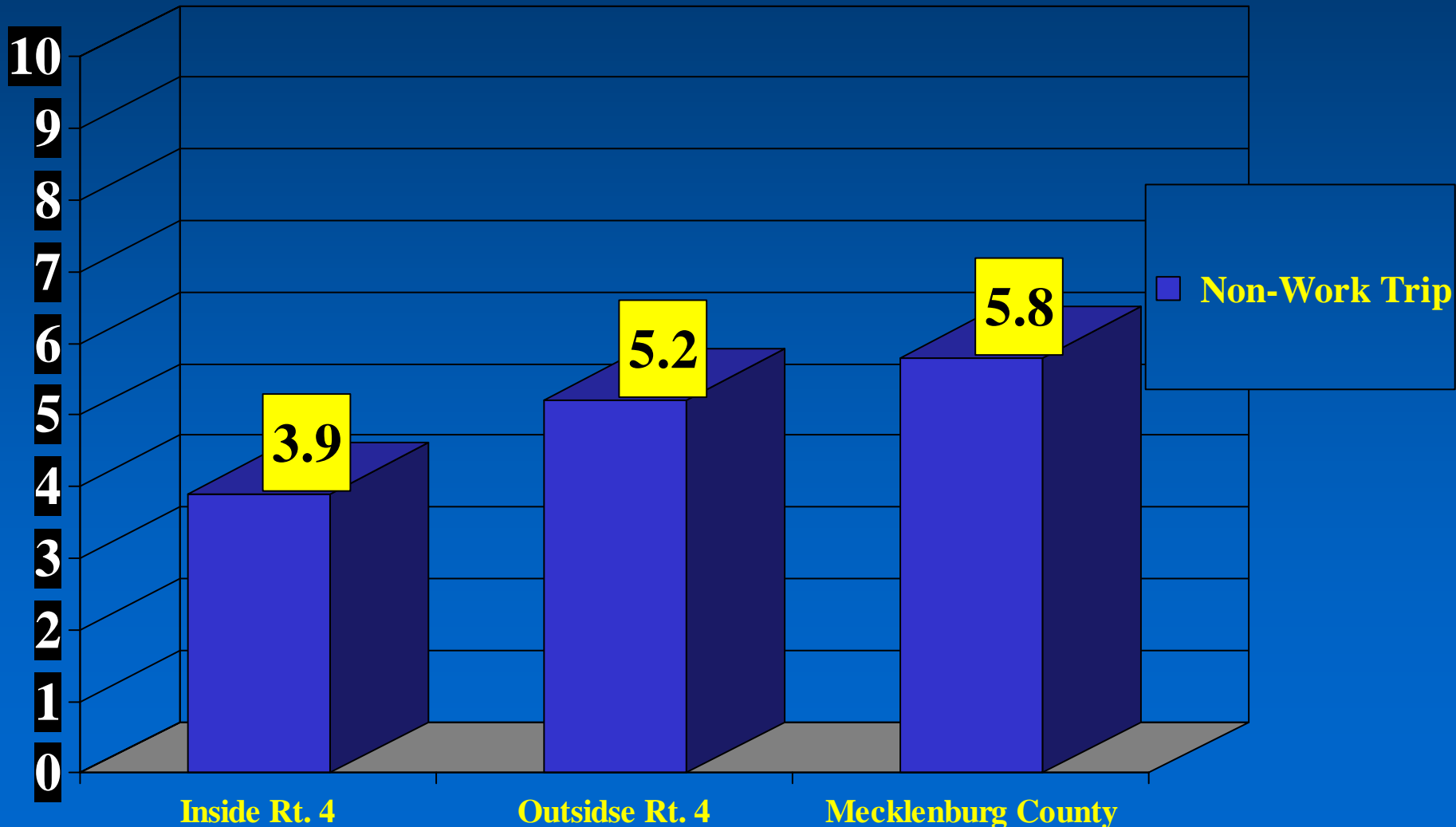
Percent of Population within ¼ mile...

		City Population		Northlake Population	
Shopping		60%		79% (97%) (34%)	
Schools		28%		20% (44%) (15%)	
Parks		33%		67% (46%) (32%)	
Transit		61%		28% (99%) (4%)	

Note: Yellow highlighted percents are related to Dilworth; red percentages are for Rocky River.

Average Trip Length (in miles)

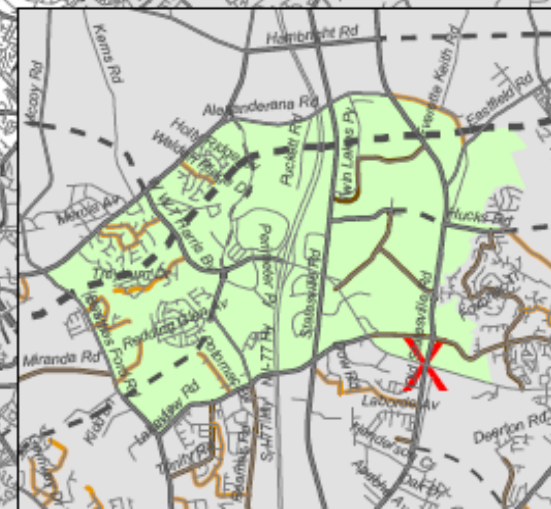
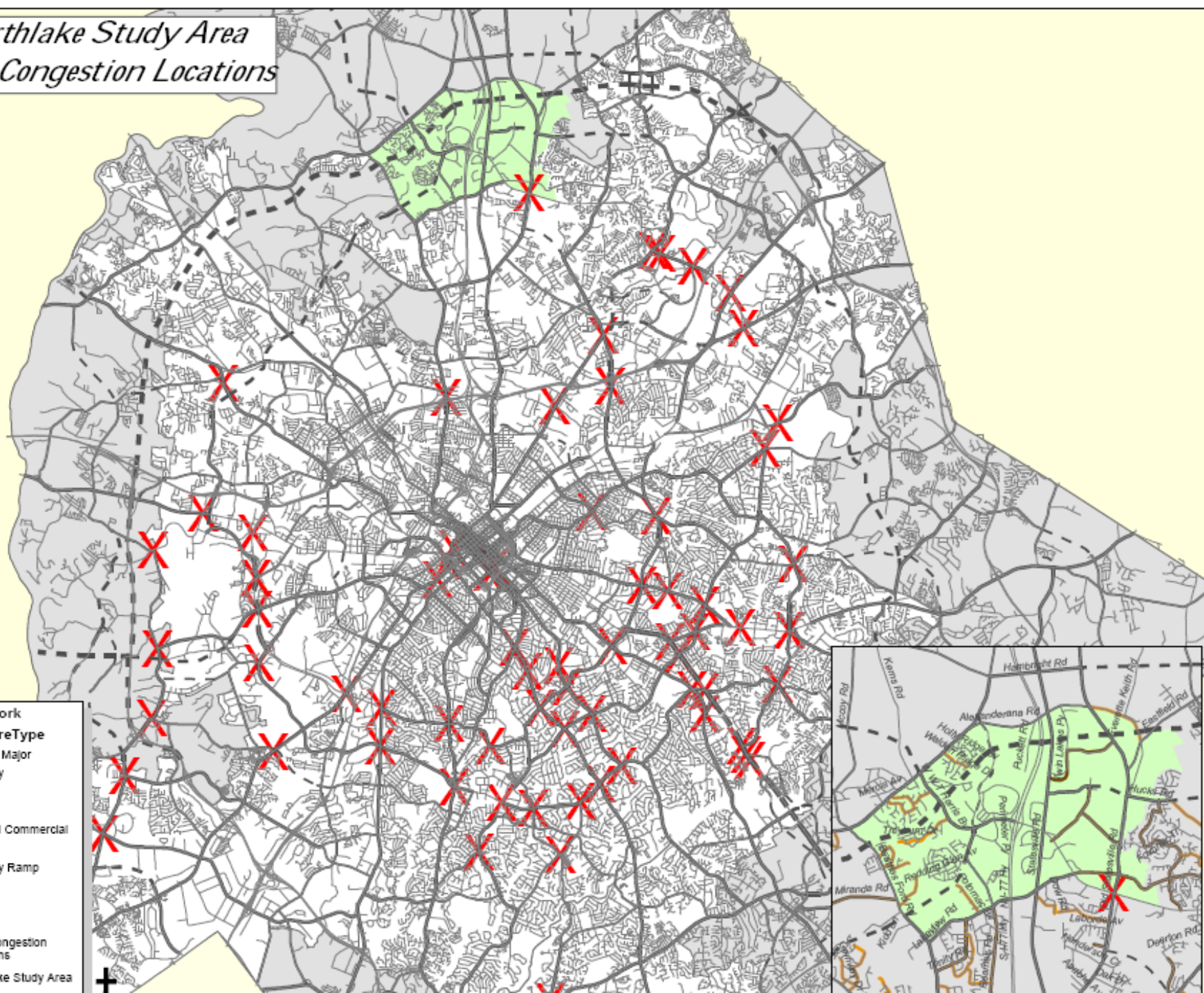
Source: Charlotte Department of Transportation



Northlake Study Area

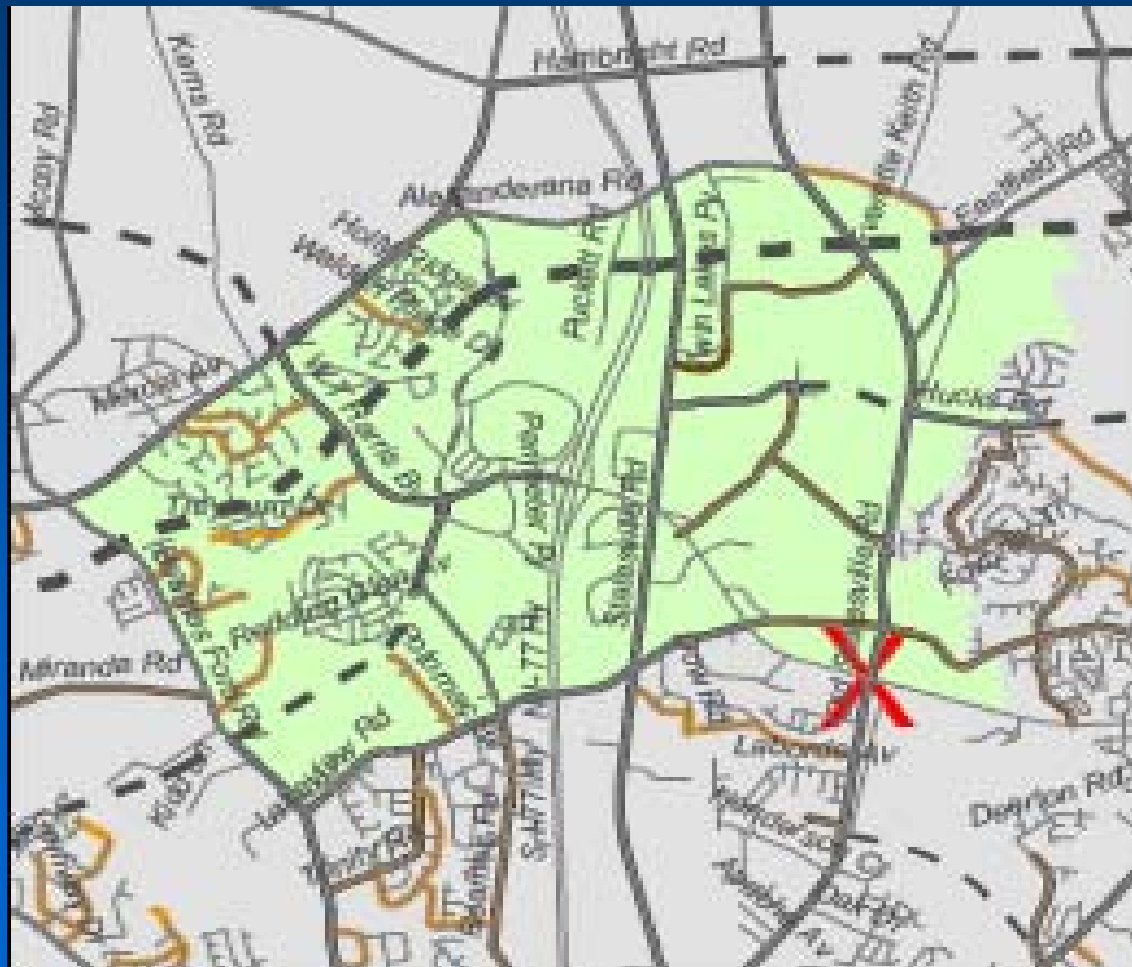
High Congestion Locations

- Road Network**
- ThoroughfareType**
- Class II Major
 - Freeway
 - Minor
 - Major
 - Class III Commercial
 - Local
 - Freeway Ramp
- Collectors**
- Major
 - Minor
- High Congestion Locations**
- Northlake Study Area**

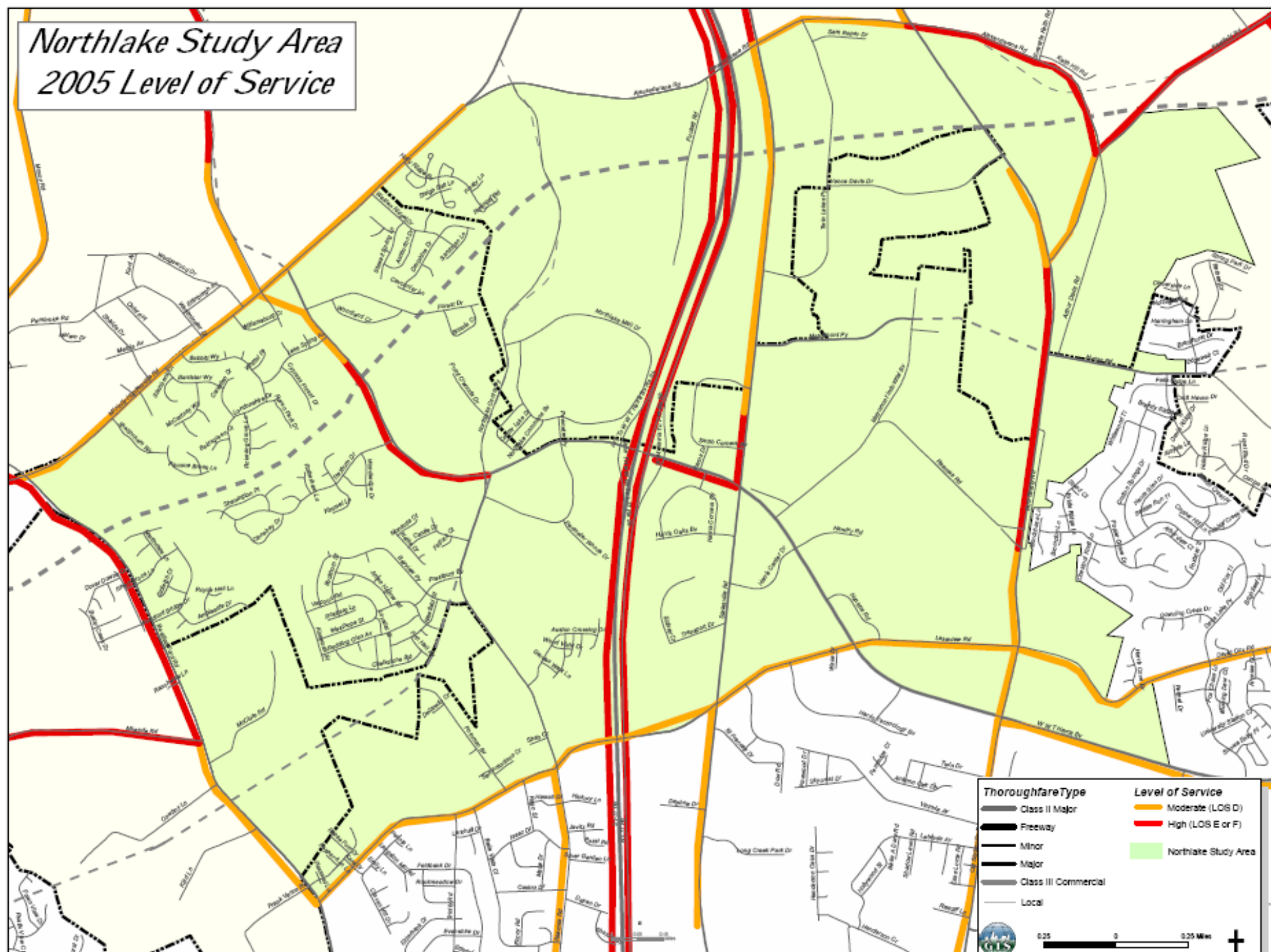


High Congestion Location

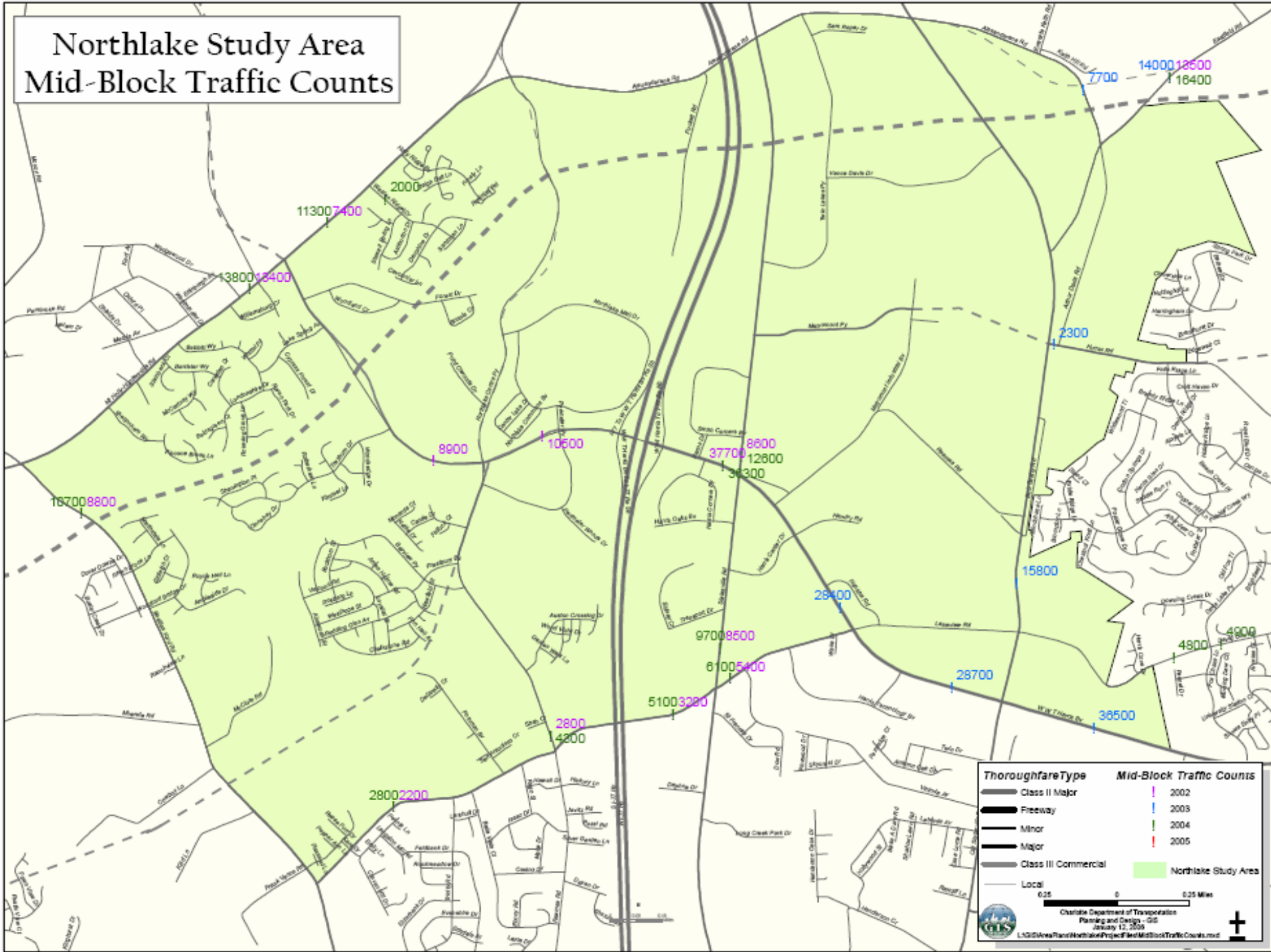
Old Statesville Road and W. T. Harris Blvd



Northlake Study Area 2005 Level of Service



Northlake Study Area Mid-Block Traffic Counts



Findings

- 2005 Existing Zoning, Land Use and Transportation Network have resulted in some constrained facilities.
- Poor level of service (E or F) on many roadway segments in the study area.

MUMPO 2030 LRTP Projects

Project Location	Description	MUMPO Rank
2020 Horizon Year		
Alexanderana Road	Widen to a 4-lane divided facility, with sidewalks and bike lanes. From Mount Holly-Huntersville Road to Old Statesville Road	44
Hambright Road	Widen to 4-lane divided facility, with sidewalks and bike lanes. From Mount Holly-Huntersville Road to Old Statesville Road	53
Fred D. Alexander Boulevard	Construct new 4-lane divided facility, with sidewalks and bike lanes. From Sunset Road to W.T. Harris Blvd <i>(part of larger facility)</i>	56
I-77	Widen to 6 lanes, plus HOV lanes. From I-485 to Iredell County.	Highest rank: 24 *
Old Statesville Road (NC 115)	Widen to 4-lane divided facility, with sidewalks and bike lanes. From W.T. Harris Boulevard to Davidson.	Highest rank: 22 *
Statesville Road (US 21)	Widen to 4-lane divided facility, with sidewalks and bike lanes. From I-85 to Catawba Avenue in Cornelius.	Highest rank: 38 *
* Various-project split into segments for ranking purposes		

MUMPO 2030 LRTP Projects

2030 Horizon Year		
W.T. Harris Boulevard	Widen to 4-lane divided facility, with sidewalks and bike lanes. From Northlake Center Parkway to NC 73.	Various-project split into segments for ranking purposes Highest rank: 87
Hucks Road Extension	Widen to 4-lane divided facility, with sidewalks and bike lanes. From Prosperity Church Road to Statesville Road. Part of this road will be relocated.	Various-project split into segments for ranking purposes Highest rank: 90

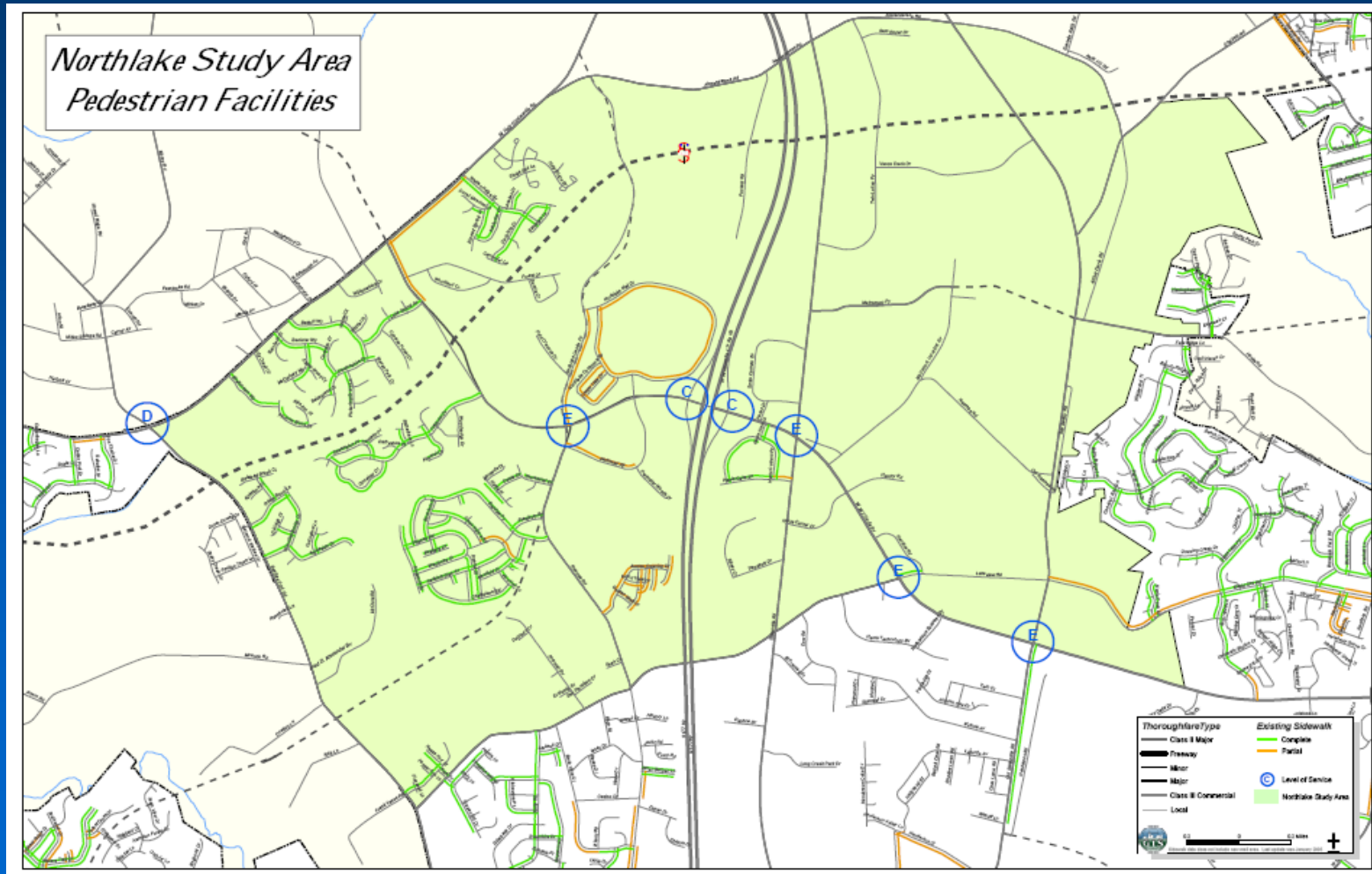
Horizon Year refers to the final year of a 10 year increment into which LRTP's are divided. The 2020 horizon year is from January 1, 2011 through December 31, 2020. When a project is located in a particular horizon year, it means that it is assumed that funding will become available and that the project will be completed and open to traffic during that 10 year period.

Is Northlake Pedestrian Friendly?

- Numerous roads do not include sidewalks
- Older residential developments were constructed during a time when the city or county did not require sidewalks
- The disconnected street system and lack of nearby land uses reduce the likelihood of someone walking in the Northlake Area.
- City staff conducted a Pedestrian Level of Service Analysis for Signalized Intersections. All signalized intersections on W.T. Harris Boulevard except at I-77 have low pedestrian LOS.
- Today, the Northlake Area is not a pedestrian-friendly community.



Is Northlake Pedestrian Friendly?



Is Northlake Pedestrian Friendly?

Level of service is a measure of pedestrian quality and comfort ranging from A to F; A being the best and F the worst. Pedestrian Level of Service Evaluation factors includes:

- Crossing Distance
- Corner radius
- Conflicts with turning vehicles
- Signal timing
- Right turns on red
- Crosswalk treatment
- Adjustment for traffic flow direction

Is Northlake Pedestrian Friendly?

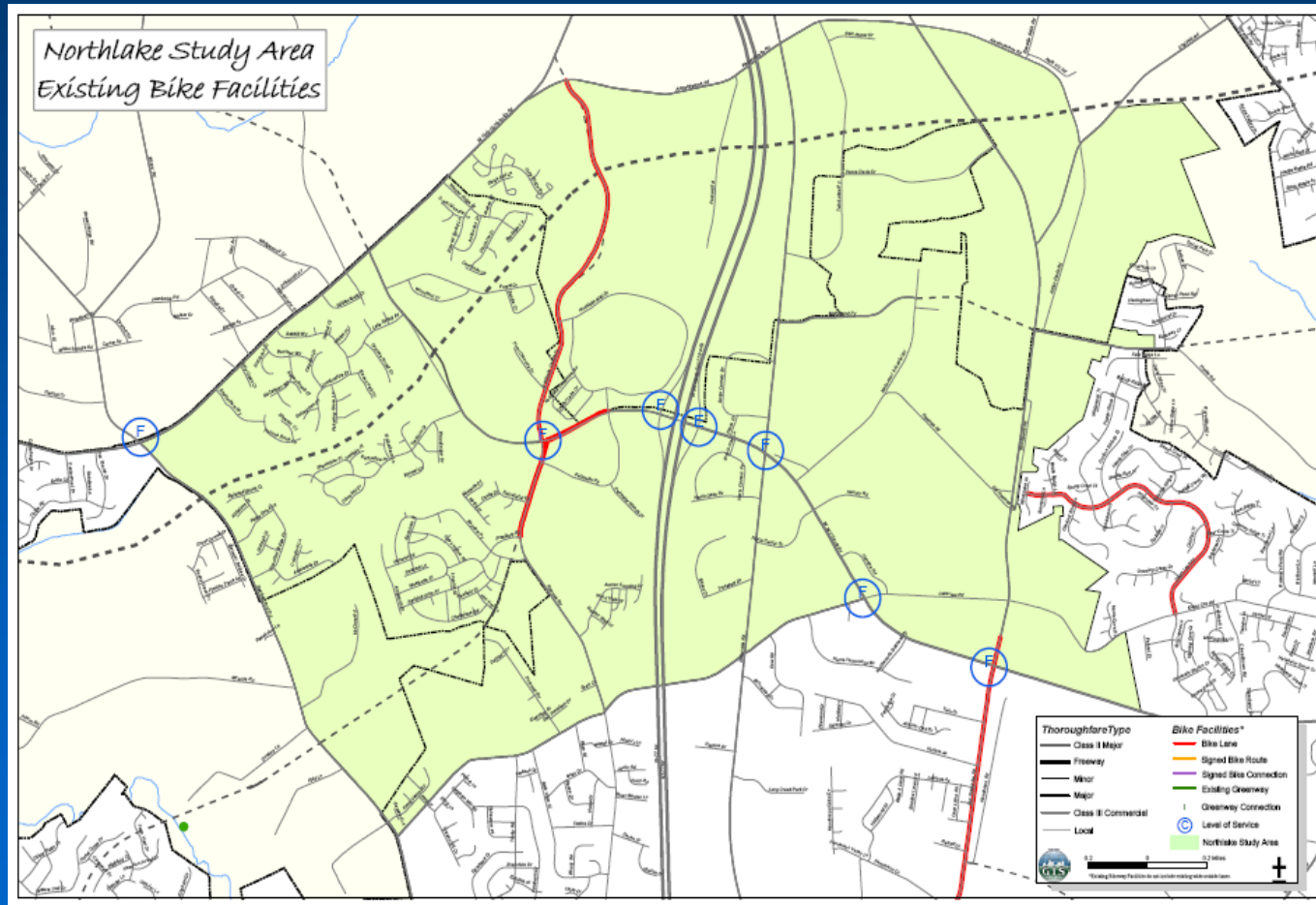
- Beatties Ford Road at Mt. Holly/Huntersville Road LOS D
- W. T. Harris Boulevard at I-77 NB LOS C
- W. T. Harris Boulevard at I-77 SB LOS C
- W. T. Harris Boulevard at Lakeview Road LOS E
- W. T. Harris Boulevard at Old Statesville Road LOS E
- W. T. Harris Boulevard at Reames Road LOS E
- W. T. Harris Boulevard at Statesville Road LOS E

Is Northlake Bicycle Friendly?

- The Northlake area is currently characterized by a series of narrow two-lane roads and disconnected subdivisions.
- Today, the Northlake Area is not a bicycle-friendly community.



Is Northlake Bicycle Friendly?



Is Northlake Bicycle Friendly?

Level of service is a measure of pedestrian quality and comfort ranging from A to F; A being the best and F the worst. Bicycle Level of Service Evaluation Factors includes:

- Signal Phasing & timing
- Bikeway space
- Right turn conflict
- Speed of adjacent traffic
- Right turns on red
- Crossing Distance

Is Northlake Bicycle Friendly?

- Beatties Ford Road at Mt. Holly/Huntersville Road LOS F
- W. T. Harris Boulevard at I-77 NB LOS F
- W. T. Harris Boulevard at I-77 SB LOS F
- W. T. Harris Boulevard at Lakeview Road LOS F
- W. T. Harris Boulevard at Old Statesville Road LOS F
- W. T. Harris Boulevard at Reames Road LOS F
- W. T. Harris Boulevard at Statesville Road LOS F

THANK YOU!

Charlotte Department of Transportation



Connecting Charlotte