

Appendix A:

Adopted Figures

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- Figure 8: Existing and Proposed Major Collectors**

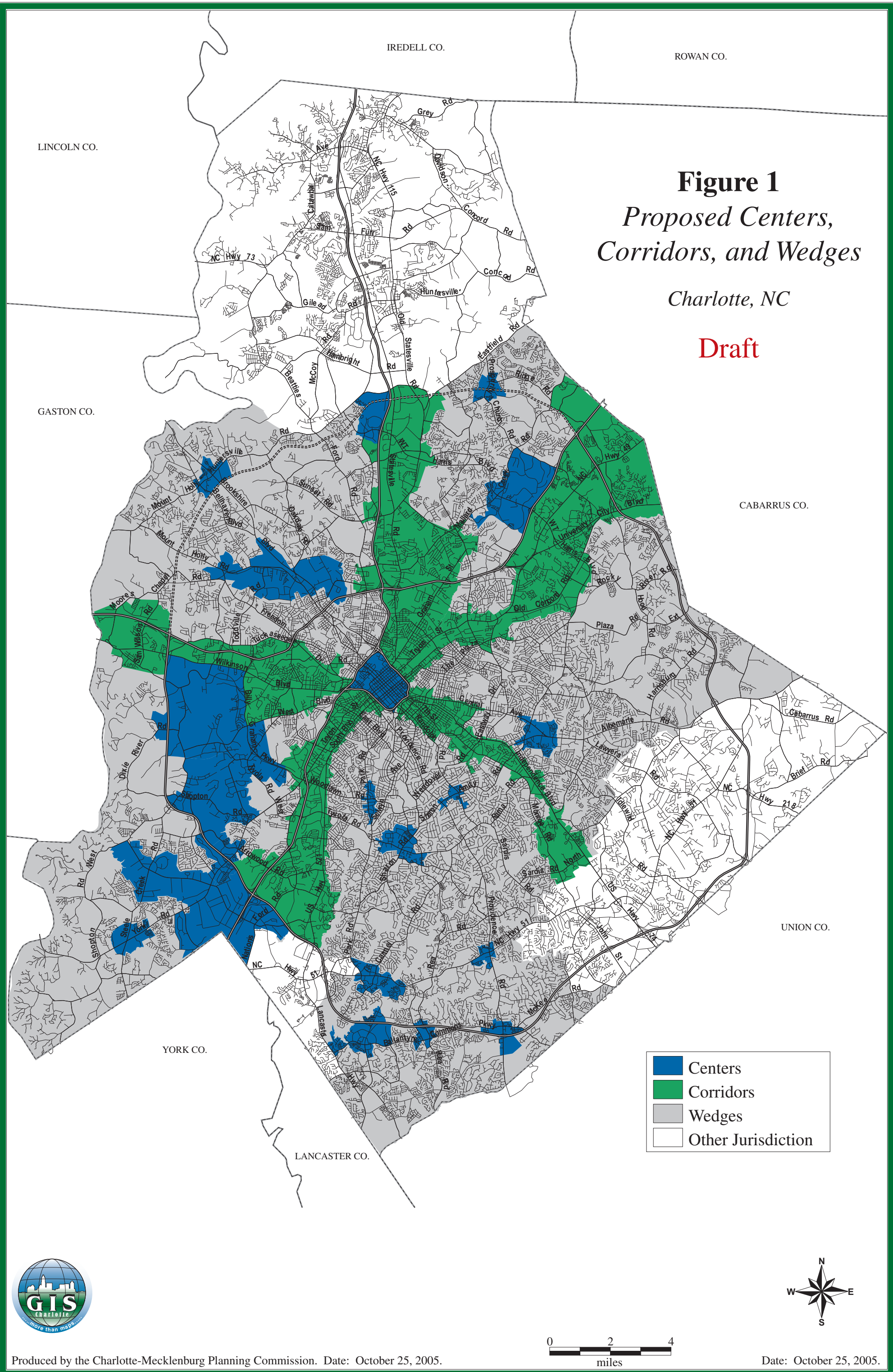


Figure 1 Proposed Centers, Corridors, and Wedges

Charlotte, NC

Draft

- Centers
- Corridors
- Wedges
- Other Jurisdiction

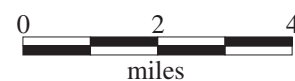


Figure 2 2025 Corridor System Plan

Adopted by Metropolitan Transit Commission
September 2002

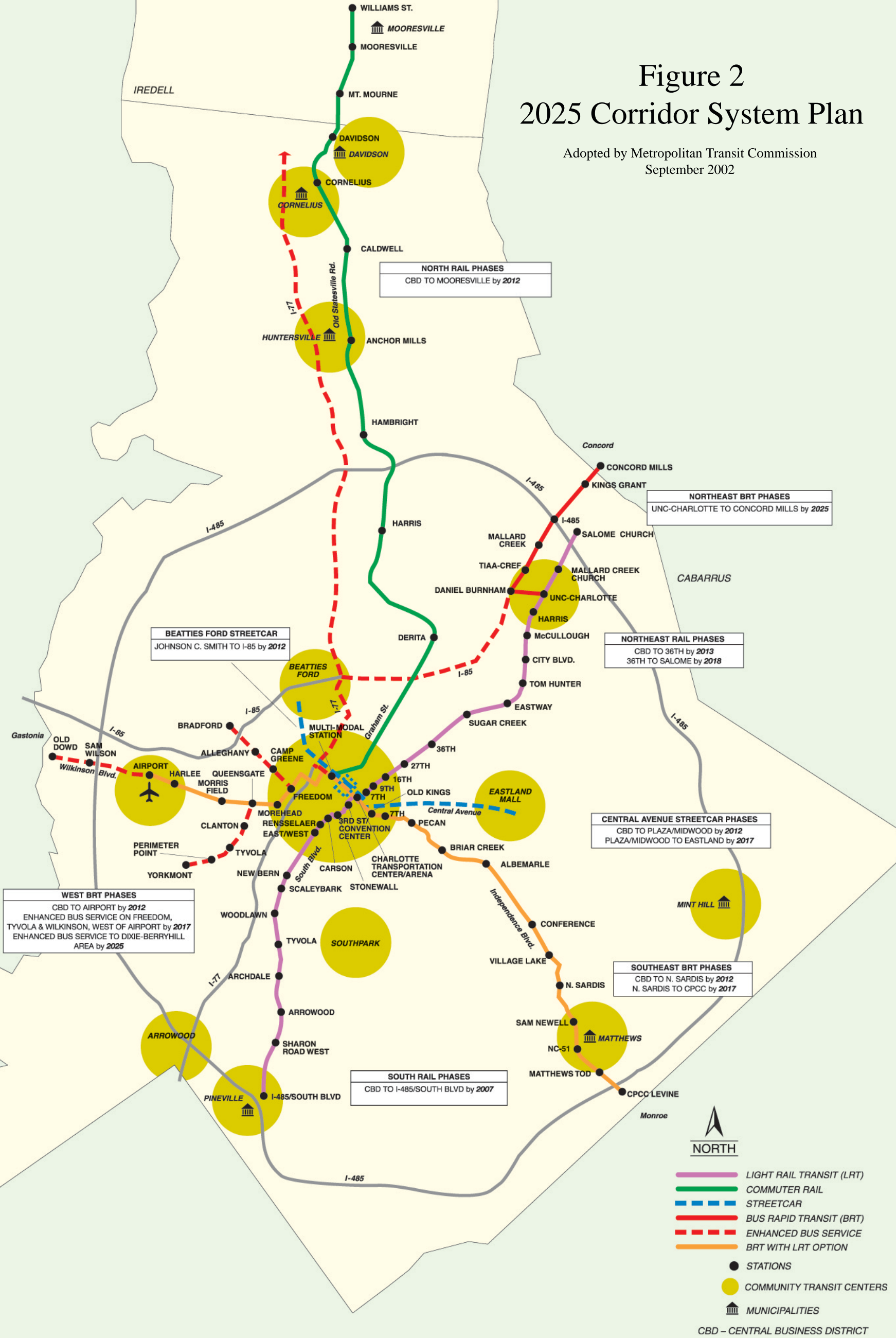


Figure 3

*USDG
Street Classifications
Charlotte, NC*

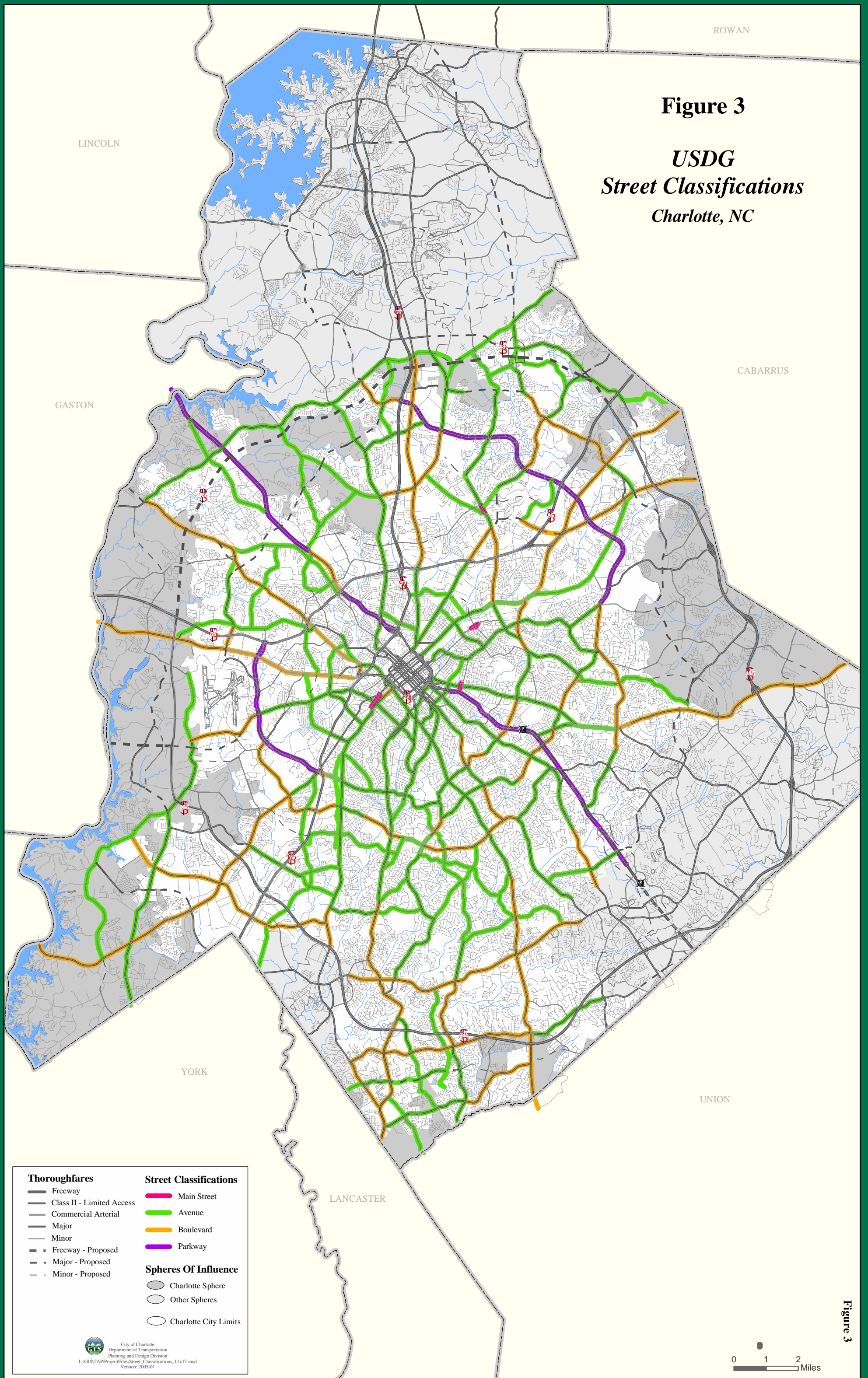


Figure 3

City of Charlotte
Department of Transportation
Planning and Design Division
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Version: 2005-01

0 1 2
Miles

Figure 4: Locally Funded Transportation Programs and Improvements List

Program Category	TAP Goal	To be accomplished during TAP timeframe using proposed funding level	2006-2010	2011-2020	2021-2030	Total 2006-2030
Motorists: Capacity and Safety Improvements						
Bridge Program	2	Inspect every city-maintained bridge (currently 193) every two years and make repairs as necessary (\$46,000,000); replace 35 bridges (\$36,000,000)	\$ 12,000,000	\$ 25,000,000	\$ 45,000,000	\$ 82,000,000
Curb and Gutter Maintenance Program	2	Maintain curb-and gutter at approx. 100-year cycle; Replace 600 miles of c&g @ \$164,000/mile	\$ 16,500,000	\$ 41,000,000	\$ 41,000,000	\$ 98,500,000
Farm-to-Market Road Improvement Program	2	Modify rural roads to City standards (approx. 65 miles @ \$2,000,000/mile); Construct new c&g (375 miles @ \$160,000/mile)	\$ 40,000,000	\$ 75,000,000	\$ 75,000,000	\$ 190,000,000
Intersection Capacity & Multimodal Enhancement Program	2	Upgrade 100 intersections (@ \$4,000,000 each)	\$ 80,000,000	\$ 160,000,000	\$ 160,000,000	\$ 400,000,000
Minor Roadway Improvement Program	2	Construct 300 low-cost improvement projects	\$ 15,000,000	\$ 30,000,000	\$ 30,000,000	\$ 75,000,000
Pedestrian & Traffic Safety Program	2	Construct projects that enhance the safety of motorists and other travelers	\$ 7,500,000	\$ 15,000,000	\$ 15,000,000	\$ 37,500,000
Public-Private Participation Program	5	Share costs with private developers to create better projects (approx. 375 projects @ \$175,000)	\$ 7,500,000	\$ 20,000,000	\$ 40,000,000	\$ 67,500,000
Railroad Grade Crossing Improvement Program	2	Improve 70 railroad grade crossings at \$15,000 each	\$ 210,000	\$ 420,000	\$ 420,000	\$ 1,050,000
Railroad Safety Improvement Program	2	Improve 75 railroad crossing signals at \$15,000 each	\$ 225,000	\$ 450,000	\$ 450,000	\$ 1,125,000
Specific Throughfare and Street Projects	2	Construct approximately 100 locally-funded projects (see attached table)	\$ 152,000,000	\$ 304,000,000	\$ 304,000,000	\$ 760,000,000
State Highway Participation Program	5	Share costs with State to create better projects, including funding to improve street lighting and sidewalks (\$10,000,000)	\$ 10,000,000	\$ 20,000,000	\$ 30,000,000	\$ 60,000,000
Street Connectivity Program	2	Construct 375 street connections (@\$200,000/ea.), 30 miles of new connector streets (@\$3,000,000/mi.), & 100 miles of new local streets (@\$2,000,000/mi.)	\$ 70,000,000	\$ 145,000,000	\$ 150,000,000	\$ 365,000,000
Street Resurfacing Program	2	Maintain street resurfacing to optimal 12-year cycle (includes eliminating 342 mile existing backlog); 3,500 miles beyond Powell Bill funding repaved over 25 years @\$72,450/mile	\$ 58,500,000	\$ 88,000,000	\$ 108,500,000	\$ 255,000,000
Traffic Control Devices Upgrade Program	2	Maintain all existing intersections (650) as well as 325 new intersections over next 25 years while upgrading 1250 (25/yr.) signalized intersections with new equipment (\$40,000,000); upgrade all signs and markings to meet higher visibility standard (\$25,000,000), and upgrade 375 intersections over 25-years to include APS devices for visually impaired (\$5,625,000).	\$ 11,125,000	\$ 27,250,000	\$ 32,250,000	\$ 70,625,000
Traffic Flow Enhancement Program	2	Improve traffic flow by using existing streets more efficiently through several techniques: Optimal signal coordination (\$35,000,000), ITS (\$15,000,000), and incident management (\$25,000,000)	\$ 10,000,000	\$ 35,000,000	\$ 30,000,000	\$ 75,000,000
Capacity and Safety Improvements Total			\$ 490,560,000	\$ 986,120,000	\$ 1,061,620,000	\$ 2,538,300,000

Figure 4: Locally Funded Transportation Programs and Improvements List

Program Category	TAP Goal	To be accomplished during TAP timeframe using proposed funding level	2006-2010	2011-2020	2021-2030	Total 2006-2030
Pedestrian Pathways						
Pedestrian Connectivity Program	2	Construct 500 bike/ped connections (@\$50,000 each) & 250 mid-block crossings (@\$20,000/ea.)	\$ 6,000,000	\$ 12,000,000	\$ 12,000,000	\$ 30,000,000
Safe Routes to School Program	2	Implement projects at 50 schools at \$1,000,000 each	\$ 10,000,000	\$ 20,000,000	\$ 20,000,000	\$ 50,000,000
Sidewalk Construction Program	2	Construct 550 miles of new sidewalks @\$600,000/mile; 75 connectivity mitigation projects @ \$300,000 each	\$ 36,000,000	\$ 160,000,000	\$ 160,000,000	\$ 356,000,000
Sidewalk Maintenance Program	2	Maintain sidewalk network at approx. 100-year cycle; Replace 700 miles of sidewalk @ \$143,500/mile	\$ 18,500,000	\$ 41,000,000	\$ 41,000,000	\$ 100,500,000
Pedestrian Pathways Total			\$ 70,500,000	\$ 233,000,000	\$ 233,000,000	\$ 536,500,000
Bicycle Pathways						
Bicycle Program	2	Construct 500 miles of bikeways including 275 miles of bike lanes, 25 miles of trails, and bicycle parking	\$ 7,500,000	\$ 20,000,000	\$ 20,000,000	\$ 47,500,000
Bicycle Pathways Total			\$ 7,500,000	\$ 20,000,000	\$ 20,000,000	\$ 47,500,000
Centers, Corridors and Livable Neighborhoods						
Air Quality and Congestion Mitigation Program	3	Construct CMAQ-type projects	\$ 10,000,000	\$ 20,000,000	\$ 20,000,000	\$ 50,000,000
Area Plan Capital Project Program	2	Implement 50 area plan projects at \$500,000 each	\$ 5,000,000	\$ 10,000,000	\$ 10,000,000	\$ 25,000,000
Center City Implementation Program	1	Implement low-cost transportation infrastructure improvements as outlined in Center City Transportation Study	\$ 12,000,000	\$ 20,000,000	\$ 20,000,000	\$ 52,000,000
Centers and Corridors Implementation: Corridors	1	Complete station area projects in all five corridors (34 stations @ \$5,000,000 each)	\$ 30,000,000	\$ 90,000,000	\$ 50,000,000	\$ 170,000,000
Centers and Corridors Implementation: Centers	1	Implement 5 regional center projects (\$5,000,000 each) and 10 subregional center projects (\$2,000,000 each)	\$ 5,000,000	\$ 20,000,000	\$ 20,000,000	\$ 45,000,000
Streetscape/Pedscape Program	2	Implement 25 projects at \$3,000,000 each	\$ 15,000,000	\$ 30,000,000	\$ 30,000,000	\$ 75,000,000
Traffic Calming Program	2	Construct 35-40 smaller projects (i.e. using speed humps) per year (\$250,000) and 3 larger projects (i.e. using traffic circles or other) per year (\$750,000)	\$ 5,000,000	\$ 10,500,000	\$ 12,500,000	\$ 28,000,000
Livable Neighborhoods and Centers Total			\$ 82,000,000	\$ 200,500,000	\$ 162,500,000	\$ 445,000,000
PROGRAM & PROJECT GRAND TOTAL			\$ 650,560,000	\$ 1,439,620,000	\$ 1,477,120,000	\$ 3,567,300,000

ROWAN

Figure 5

Major and Minor Thoroughfares Not Anticipated to be Widened Through 2030

Charlotte, NC

CABARRUS

GASTON

To be determined by
Center City Transportation Study

YORK

UNION

LANCASTER

Not to be Widened Through 2030

Note: The City may pursue intersection improvements, turn-lanes, multi-modal enhancements and other alternatives on highlighted streets.

Thoroughfares

- Freeway
- Class II - Limited Access
- Commercial Arterial
- Major
- Minor
- Freeway - Proposed
- Major - Proposed
- Minor - Proposed

Spheres Of Influence

- Charlotte Sphere
- Other Spheres
- Charlotte City Limits

Figure 6

Existing and Future Bicycle Facilities

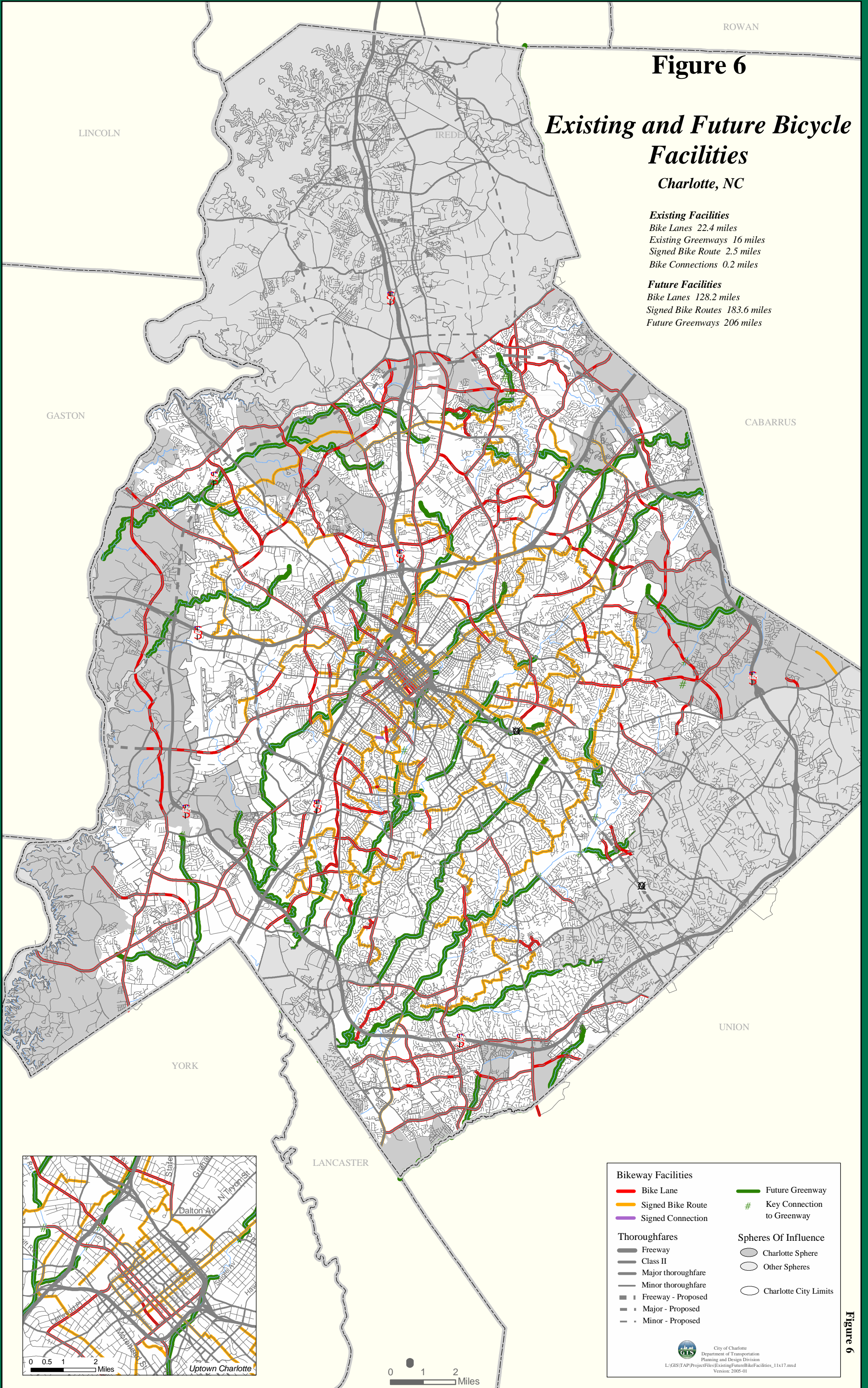
Charlotte, NC

Existing Facilities

- Bike Lanes 22.4 miles
- Existing Greenways 16 miles
- Signed Bike Route 2.5 miles
- Bike Connections 0.2 miles

Future Facilities

- Bike Lanes 128.2 miles
- Signed Bike Routes 183.6 miles
- Future Greenways 206 miles



GASTON

CABARRUS

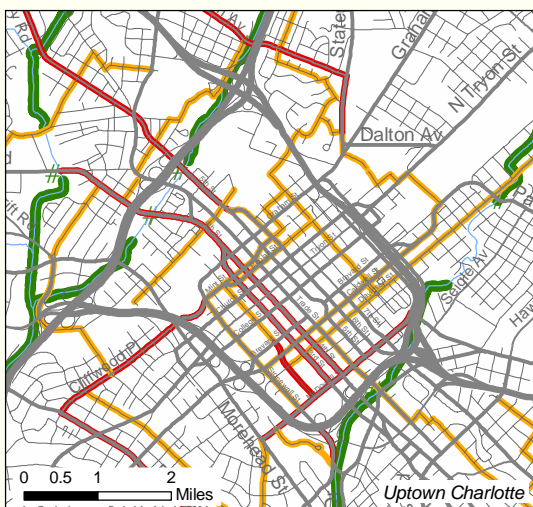
YORK

UNION

LANCASTER

Bikeway Facilities

- Bike Lane
 - Signed Bike Route
 - Signed Connection
 - Future Greenway
 - # Key Connection to Greenway
- Thoroughfares**
- Freeway
 - Class II
 - Major thoroughfare
 - Minor thoroughfare
 - Freeway - Proposed
 - Major - Proposed
 - Minor - Proposed
- Spheres Of Influence**
- Charlotte Sphere
 - Other Spheres
 - Charlotte City Limits



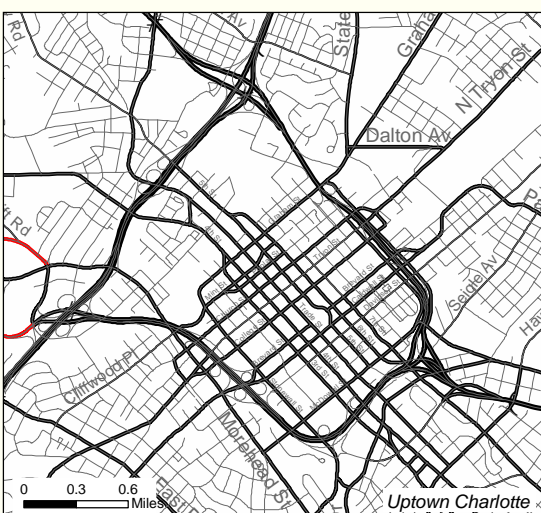
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0 1 2 Miles

Figure 7 Charlotte Thoroughfares

Charlotte, NC

Data Adopted by MPO:
November 17, 2004



Thoroughfares		Spheres Of Influence	
	Freeway		Charlotte Sphere
	Class II - Limited Access		Other Spheres
	Commercial Arterial		Charlotte City Limits
	Major		
	Minor		
	Freeway - Proposed		
	Major - Proposed		
	Minor - Proposed		
	Interchange		
	Future interchange		
	Grade separation		
	Future grade separation		

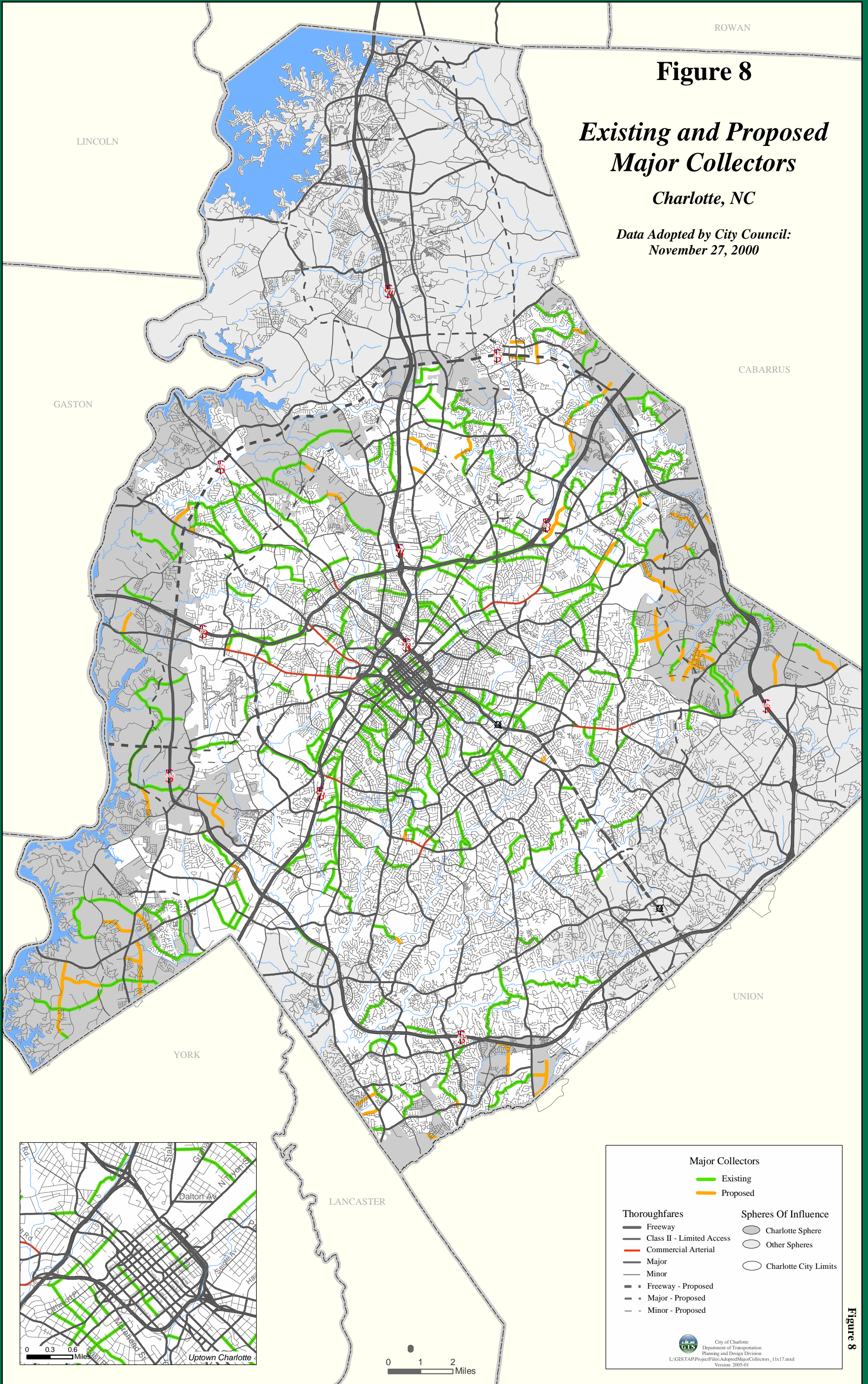
City of Charlotte
Department of Transportation
Planning and Design Division
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Version: 2005-01

Figure 8

**Existing and Proposed
Major Collectors**

Charlotte, NC

*Data Adopted by City Council:
November 27, 2000*



Major Collectors

- Existing
- Proposed

Thoroughfares

- Freeway
- Class II - Limited Access
- Commercial Arterial
- Major
- Minor
- Freeway - Proposed
- Major - Proposed
- Minor - Proposed

Spheres Of Influence

- Charlotte Sphere
- Other Spheres
- Charlotte City Limits

City of Charlotte
Department of Transportation
Planning and Design Division
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Version: 2005-01

Figure 8