

2030 Corridor System Plan



Metropolitan Transit Commission November 17, 2010



Implementation Plan (2006)

Attachment B

2030 Corridor System Plan Implementation Plan

CORRIDORS	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
South	с																												
North - Phase I	De	esign		Cone	st.	\$2	61.2		-																				
North - Phase II									D	esign	i .	Const	\$	111	.9														
Northeast		Det	algn		C	onst.	\$	740.	5	_																			
Southeast - Phase I (CGS to Conference Sta)		ROW	\$ 3.	.2	Bus- way	\$	32.2				De	sign		С	onst.	\$	176	.8											
Southeast - Phase II (Conf. Sta to Sardis Sta)						-							De	asign		c	onst.	\$	174	.7									
Southeast - Phase III (Sardis to CPCC/Levine)															De	elgn		c	onst.	\$	230	9							
Streetcar - Phase I (Rosa Parks to Presby.)								Des	Ign	ļ	Cons	st.	\$ 2	10.6															
Streetcar - Phase II (Presby to Eastland)							•					-		Desig	Ī	Const	s	209	.8										
West Corridor - Enhanced Bus		w	likinse	on	West	FI	reedor	n \$	12.7	7			•				•												
West Corridor - Phase I (CGS to Ashley)		-		_		_		-											Des	Ign	ĺ	Const	\$	163	.1				
West Corridor - Phase II (Ashley to CLT)																								Des	Ign		Const.	\$	324.1

CATS 11-9-06



CHARLOTTE AREA TRANSIT SYSTEM



Adopted 2030 Plan (Current Status)

- LYNX Blue Line (LRT)
 - FTA considers very successful
 - Needs capacity for 3-car trains

• Blue Line Extension (LRT)

- Strong New Starts rating Medium
- Funding schedule impacted

Red Line (Commuter Rail)

- Tracks & Crossings @ 90% design
- No clear funding plan

Silver Line (LRT or BRT)

- Transit Technology Decision in 2011
- Corridor Land Use and Road solution
- West Corridor
 - Enhanced Bus Service 2009
 - Convert to Streetcar
- Streetcar Line (Modern)
 - City of Charlotte funding PE
 - No clear funding plan

CITY OF CHARLOT







Blue Line Extension

- 15% Project Description
 - 13 Stations: 6 walk-up & 7 park and ride (1 parking deck)
 - 7 at-grade crossings on Tryon St and Mallard Creek Church Rd
 - 5 grade separations
- 30% Project Description
 - 13 Stations: 9 walk-up & 4 park and ride (3 parking decks)
 - 12 at-grade crossings and 5 grade separations (note: CRI entrance is now at-grade and Mallard Creek Church is grade separated)







15%

Base Year Estimate:	\$983 m (\$2010)	\$902 m (\$2008)
YOE cost Estimate:	\$1.12 b	\$1.04 b to \$1.12 b
(2016)	(3.25% escalation)	(3.25% & 5% escalation)

- Escalation between 2008 and 2010 was assumed to be 5% in the 15% estimate, but was actually only 2%
- Both YOE estimates assume 2016 opening

30%

 Escalation rate for 30% design reduced based on additional construction cost data available over past year





- Information submitted to FTA in Fall 2009 reflected:
 - Cost estimate (\$1.18 billion)
 - 2030 Ridership (23,800 average weekday)
 - Scheduled opening (2019)
- FY2011 New Starts Ratings:
 - Project Justification Rating Medium
 - Local Financial Commitment rating Medium
 - Overall Rating Medium
- Based on 30% cost estimate anticipate Project Justification rating of Medium including Medium-High cost-effectiveness
- Financial Plan will be critical factor in FY13 Rating





Red Line Status

Track and Grade Crossings

- 90% plans complete Stations and VIF
 - 30% plans complete

Advancing FY2011 Work Plan

Does not currently qualify for federal funds - rules may change

Red Line should be coordinated with NCDOT grade separation of NS/CSX mainlines

NCDOT schedule is for completion



Red Line Cost Estimate

- The 2009 Cost Estimate \$358 Million (2009 dollars)
- Final Project Cost Depends On Implementation Date & Underlying Inflation
- NCDOT Coordinated Schedule 2017
 - \$456 Million



Assumes annual escalation of 3.25 % calculated to mid-point of construction



Charlotte Gateway Station Partnership with NCDOT



NCDOT RAIL DIVISION

www.bytrain.org

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Project Definition

- Determine CATS needs in future Gateway Station
- NCDOT issues RFQ summer 2011
- Short list for RFP by end of 2011
- Issue RFP late 2011/early 2012
- Select Master Developer mid-late 2012

Funding

- CATS already has \$19 million in federal bus earmark funds for CGS
- NCDOT has funding secured for Norfolk-Southern/CSX grade separation.
- NCDOT pursuing funds for CGS track work and Station



LYNX Silver Line



- 13.5 Mile Bus Rapid Transit (BRT) Line to Matthews
- MTC Special Provisions:
 - BRT implementation delayed five years to revisit light rail transit (LRT) option
 - Extend busway and preserve ROW for BRT or LRT
- Evaluation of technology
 - Estimate 9-12 months to review technology
 - Bigger picture question is how technology integrates with land use, expressway conversion, and potential HOV/HOT lanes







Possible model for Independence Corridor?

Joint venture between Colorado DOT and Denver RTD

Combined freeway reconstruction (17 miles) and light rail project (19 miles)

Cost: \$1.7 billion

Light rail built on side rather than in median

Opened Nov. 2006



Denver T- Rex Project





Charlotte Streetcar



- Rosa Parks Place To Eastland
- Serves many travel markets
- Catalyst for development
- PE funded by City of Charlotte
- Federal grant for 1.5 mile Starter Project
- Operations to be funded by City



CITY OF CHARLOTTE

West Corridor

2025 System Plan (2002)

- Bus Rapid Transit
- Light rail not FTA cost-effective

TE AREA TRANSIT SYSTEM

2030 System Plan (2006)

- Streetcar extension post 2030
- Light rail not FTA cost-effective

2035 System Plan

Light Rail in Wilkinson Blvd.??









Reasons to Update 2030 Corridor System Plan



STEP INTO THE FUTURE

Transportation Plans are Dynamic

- Long Range Transit Plan (1977)
- Independence HOV Lane Plan (1988)
- Transit Corridor Study (1989)
- Transitional Analysis (1994)
- Five Year Transportation Plan (1996)
- 2025 Integrated Transit/LU Plan (1998)
- 2025 Corridor System Plan (2002)
- 2030 Corridor System Plan (2006)



2025 Integrated Transit/Land-Use Plan



For Charlotte-Mecklenburg

Final Report October 1998





Reasons to Update 2030 Corridor System Plan

Success of LYNX Blue Line

- Greater than projected ridership shows people will ride
- Has led FTA to allow us to revise travel forecast model
- Suggests that light rail may be costeffective in other corridors

CITY OF CHARLOTTE





Work Currently Underway

- Blue Line Extension
 - Completion of 30% design and DEIS
 - Undertake 65% design and FEIS
- Red Line
 - Red Line Task Force
 - Red Line Work Plan
 - State consultant
- Charlotte Gateway Station
 - Operations study to determine CATS needs within CGS project
 - Norfolk Southern/CSX grade separation project funded (NCDOT)
 - Grant requests submitted for rail improvements and CGS project (NCDOT)
- Streetcar
 - 30% design plans complete (funded by City of Charlotte)
 - Demonstration project in design (Federal and City funding)
 - CATS staff support (funded by City of Charlotte)



Blue Line Extension & Red Line

- Funding/Implementation plan for Blue Line Extension
- Funding/Implementation plan for Red Line

Silver Line

- Technology for Silver Line (Independence Corridor)
- Transportation/Land Use Vision for Corridor
- Funding/Implementation plan for joint roadway/transit project

Charlotte Gateway Station

- Economy and timing of Master Developer selection
- NCDOT funding for Gateway Station and related track work

Streetcar & West Corridor

- Funding/Implementation plan for Streetcar
- Technology for West Corridor to Airport (currently Streetcar)









