NO. 753 1/3

MOBILITY 2025

NORTH CROSSTOWN CORRIDOR

OVERVIEW OF TECHNICAL RECOMMENDATION

North Central Texas Council of Governments

North Crosstown Corridor Recommendations

Objective: Identify a transportation recommendation for the North Crosstown Corridor for inclusion in the Mobility 2025 Plan.

Current Sta	tus: Developed staff technical recommendation awaiting discussion with											
North Cross	town Corridor Task Force and public input for Regional Transportation											
Council app	roval on January 13, 2000.											
	John does not want description obility 2020 P all Ridership 1 Addison to Rehardson obility 2025 F on E to be											
Background	d Technical [// Signature of from W 10 ^V											
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• Ra	ail Ridership \ Addison to Rchardson											
• M	obility 2025 F											
• M	obility 2025 F obility 2025 F orth Crosstow CB TO De T T T T T T T T T T T T T											
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	evaluate enem											
Technical F	orth Crosstov Leave in and ative 4 evaluate every Recommend											
	rst Priority: 1 SyearS Fort Worth											
	ternational A commendations from											
\mathcal{O}^{N} \mathcal{L} th	e Northwest											
	ddison Intermodal Facility (see Mobility 2020 Fiam, (Apply rail grade											
	eparation warrants in corridor.)											
2. R	Reaffirm a Santa Fe/Burlington Northern connection from the Northeast Line											
07 2 EI	the Cottonbelt Corridor using the Burlington Northern alignment.											
	Eliminate the S.H. 190 alignment and the "utility corridor" alignment. Add rail sections from an Addison Intermodal Facility to the southeast, along											
	e I.H. 635 corridor, to meet the North Central Line.											
6 5. E	xtend the North Central Line to the City of Allen and market the need to join											
ł a	transportation authority.											
	elete the Cottonbelt section east of Addison and maintain Mobility 2020											
te	erminology:											
	"all existing railroad rights-of-way should be monitored for potential											
-	future transportation corridors" nd add terminology that reiterates that:											
a	the Cottonbelt Rail Line would be re-studied at 3-year intervals with the											
	Mobility Plan frequency and when a Major Investment											

carport

Study/Environmental Impact Study is started in the Santa Fe, Burlington Northern or I.H. 635 corridors.

7. Request public input regarding these recommendations.

TENS REC. BY TECH CON. / Remove #3

#1 (w/ Modefication), #4, #7/ * UTILITY
COPPLOR

North Crosstown Corridor Recommendations

Objective: Identify a transportation recommendation for the North Crosstown Corridor for inclusion in the Mobility 2025 Plan.

Current Status: Developed staff technical recommendation awaiting discussion with North Crosstown Corridor Task Force and public input for Regional Transportation Council approval on January 13, 2000.

Background Technical Data:

- Mobility 2020 Plan: Rail Recommendations
- Rail Ridership Warrants
- Mobility 2025 Plan: Maximum System Alternative 1
- Mobility 2025 Plan: Alternative 4
- North Crosstown Corridor Study: Light Rail Alternative 4
- North Crosstown Corridor Study: Commuter Rail Alternative 4

Technical Recommendations:

1. First Priority: Pursue commuter rail service from Dallas/Fort Worth International Airport to the east with access to the rail recommendations from the Northwest Major Investment Study, with the initial eastern terminus at an to the Addison Intermodal Facility (see Mobility 2020 Plan). (Apply rail grade separation warrants in corridor.)

2. Reaffirm a Santa Fe/Burlington Northern connection from the Northeast Line to the Cottonbelt Corridor using the Burlington Northern alignment.

Eliminate the S.H. 190 alignment and the "utility corridor" alignment. Add rail sections from an Addison Intermodal Facility to the southeast, along the I.H. 635 corridor, to meet the North Central Line.

5. Extend the North Central Line to the City of Allen and market the need to join a transportation authority.

6. Delete the Cottonbelt section east of Addison and maintain Mobility 2020

 "all existing railroad rights-of-way should be monitored for potential future transportation corridors"

and add terminology that reiterates that:

the Cottonbelt Rail Line would be re-studied at 3-year intervals with the Mobility Plan frequency and when a Major Investment Study/Environmental Impact Study is started in the Santa Fe, Burlington Northern or I.H. 635 corridors.

7. Request public input regarding these recommendations.

after x-Mas. TENS REC. BY TECH CON. / Remove #1 (w/ Modefication) #4, #7/* UTILITY CORRIDOR

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Schedule:

North Crosstown Corridor Task Force meeting - December 7, 1999

Mobility 2025 Public Meetings -

Dallas, December 6, 1999

Plano, December 7, 1999

North Richland Hills, December 8, 1999

Regional Transportation Council Information - December 9, 1999

North Crosstown Corridor Public Meetings -

6:30 meeting time

Plano, December 7, 1999

????, December 13, 1999

????, December 14, 1999

????, December 16, 1999

????, January 5, 2000

????, January 6, 2000

Regional Transportation Council Action - January 13, 2000

Mobility 2020 Rail System

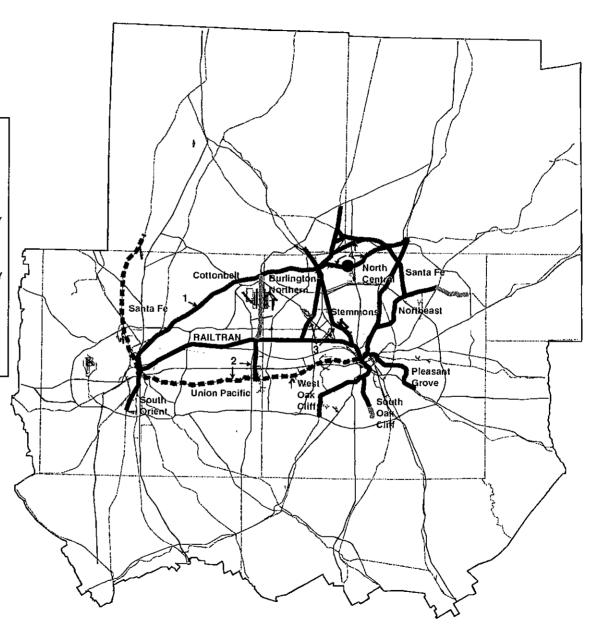




- COMMITTED LIGHT RAIL
- 伽殿 COOPERATIVELY FUNDED RAIL
- COMMITTED COMMUTER RAIL
- RAIL SYSTEM EXPANSION PENDING FURTHER STUDY
- 1810 COMMUTER RAIL SPECIAL EVENT SERVICE PENDING FURTHER STUDY
- POSSIBLE EASTERN TERMINUS
- 1-4 AREAS FOR FURTHER STUDY
- EXISTING RAILROAD RIGHTS-OF-WAY

All existing railroad rights-of-way should be monitored for potential future transportation corridors.

New facility locations indicate transportation needs and do not represent specific alignments.

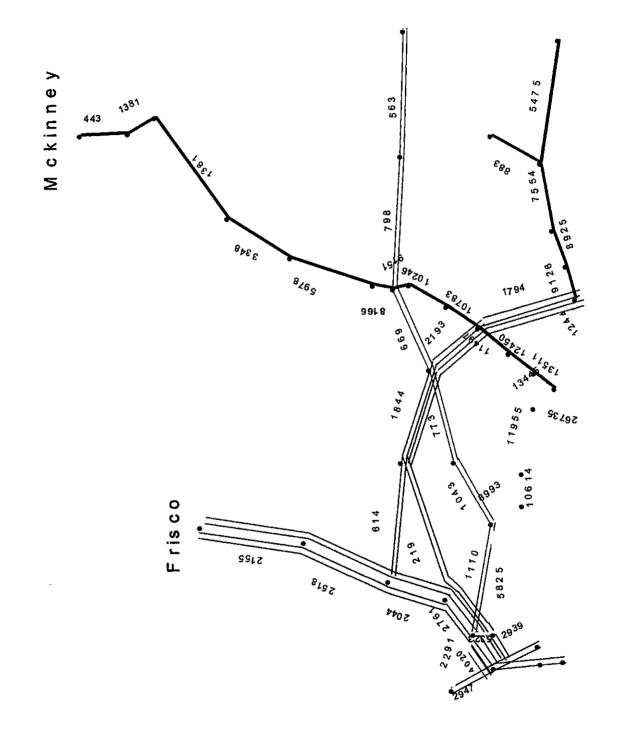


SUMMARY OF MOBILITY 2020 RAIL WARRANTS

Rail Technology	Equity Warrant (Mayors' Committee April 1995)	Mobility 2020 Rail Warrant (August 1996)	Mobility 2020 Rail Equity Warrant ¹ (October 1996)
Commuter		3,100	1,120
Intermediate Capacity Light Rail	5,000	11,900	4,300 ²
Full Capacity Light Rail		16,900	6,100
Advanced Technology (Aero Rail)		28,000	10,120
Light Rail/ Tunnel		42,500	15,360

Used in Determining Rail Extensions
Determined by Pleasant Grove from Jim Miller to Buckner Blvd.

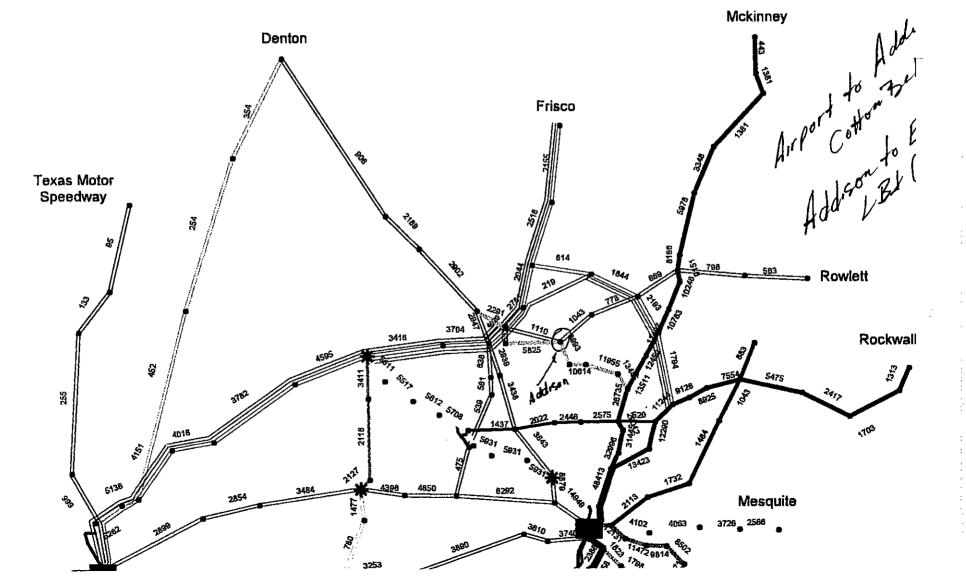
MOBILITY 2025 PROGRM25 MAXSYS ALTERNATIVE 1



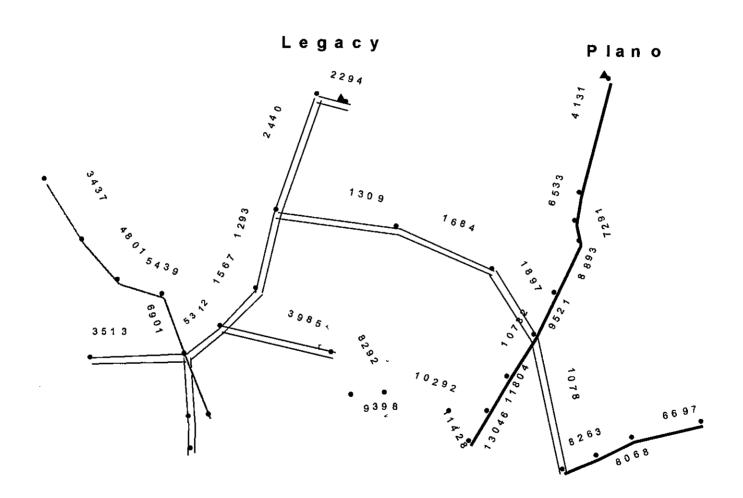
Public MEETING.

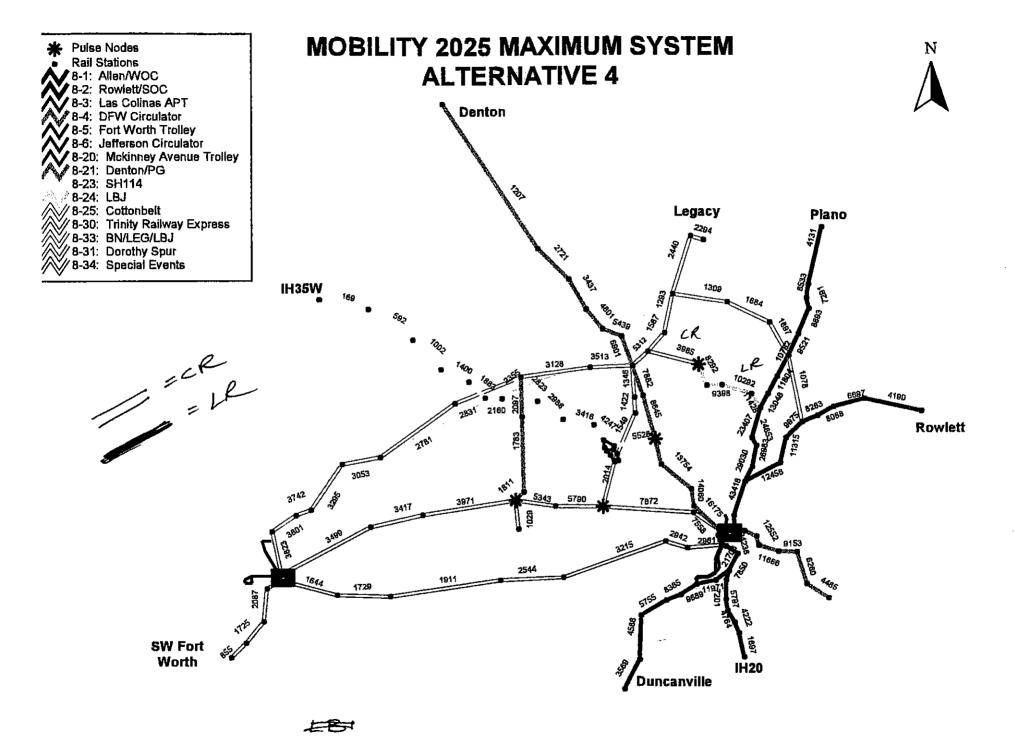
MOBILITY 2025 PROGRM25 MAXSYS ALTERNATIVE 1

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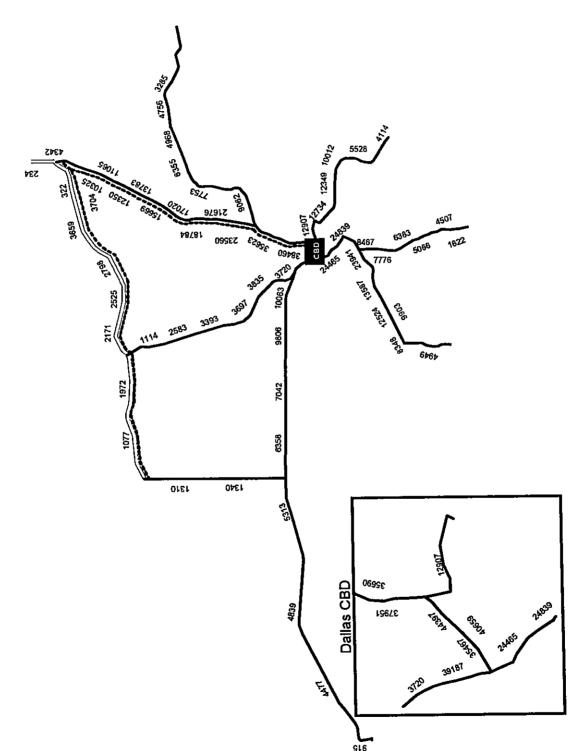
MOBILITY 2025 MAXIMUM SYSTEM ALTERNATIVE 4



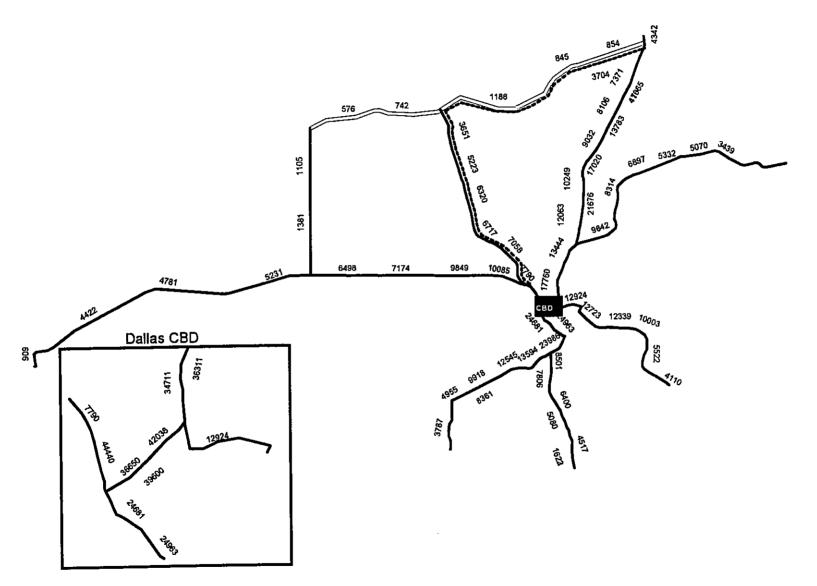








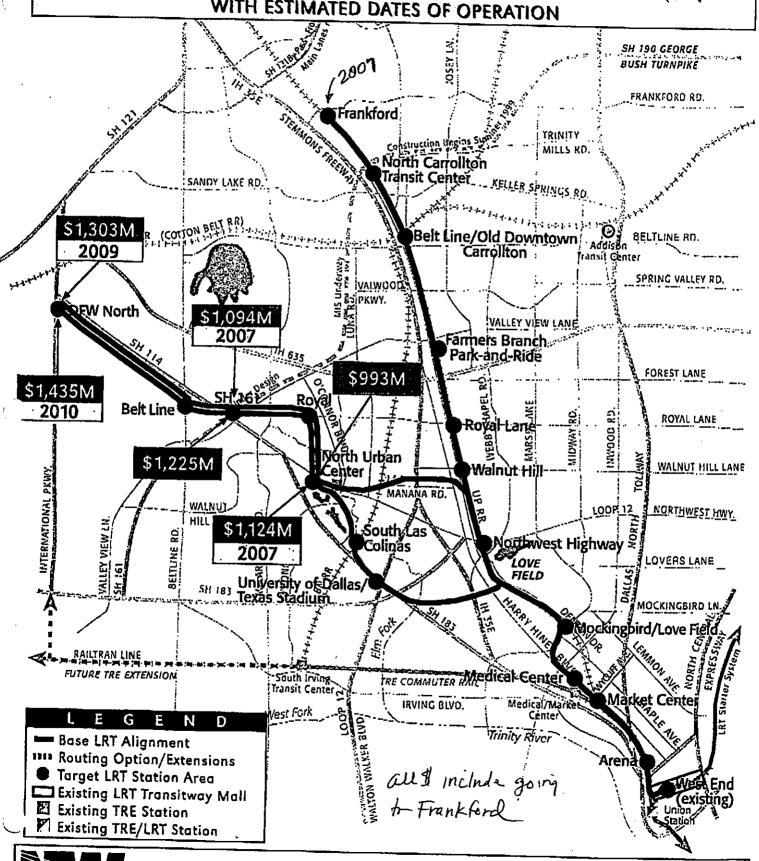
North Crosstown Commuter Rail Alternative 4 Volumes





AFFORDABILITY WITH LONG-TERM FINANCING TOTAL PROJECT COST: UP TO FRANKFORD WITH OPTIONS TO WEST (\$M)

WITH ESTIMATED DATES OF OPERATION



UD/TEXAS STADIUM VS. MANANA SPUR WESTERN TERMINUS OPTIONS

Source: BRW, Inc.

Date: November, 1999

26403028



North Central Texas Council of Governments

TO:	John Baumgartner	
	Director of Public Works, Town of Ac	ldison
FROM:	Julie K. P. Dunbar, P.E., Principal Tr	ansportation Engineer
DATE:	December 2, 1999 TE	_EFAX NUMBER:(972) 450-2837
Number of	of pages (including this cover sheet): _1	•
MESSAGE		the North Crosstown Corridor Evaluation
Task Forc	ce is scheduled for Tuesday, Decembe	r 7, 1999, in the Farmers Branch Library,
13613 We	lebb Chapel Road. Some members of	the Task Force have a conflict on that day
with a mee	eeting that is to be held at DART from 1	2 noon to 3 p.m. on the Northwest
		the DART meeting to the Farmers Branch
		Task Force meeting until 3:30 p.m. Please
	te of the new time. Thanks, Julie	
We are tra problems v	with this transmittal, please call (817) 685-	elefax number is (817) 640-3028. If you have any 9240.

TRANSPORTATION DEPARTMENT

616 Six Flags Drive, Centerpoint Two P.O. Box 5888, Arlington, Texas 76005-5888 (817) 695-9240

MOBILITY 2020: NORTH CROSSTOWN CORRIDOR EVALUATION TASK FORCE

(APRIL 1996 - DECEMBER 1999)

DECISION PROCESS AGENDA

- 1. Action: Does the committee wish to consider a position on a North Crosstown recommendation for presentation to the Regional Transportation Council? If yes, what is your opinion on:
 - The "utility" corridor?
 - Rail under the George Bush Toll Road?
 - The Santa Fe/Burlington Northern alignment?
 - The Cottonbelt alignment (west of Addison, east of Addison, the role of DART's financial commitment?
 - The LBJ Rail connection between North Central and Addison
 - The North Central Extension to Allen?

If no, keep a recommendation for Mobility 2025 (clarify role of LBJ and Central Extension)?

2. Under either position above, what is the public involvement process for January?

THIS IS HOW TO USE CITY DA

Rail Alternative Evaluation Process EVALUATION PROCESS

								_1	V											
					LRT	LŔŦ	LRT	LRT	LRT	LRT	LRT	LRT	LRT	CRT	CRT	CRT	CRT	CRT	CRT	CRT
	CATEGORY	CRITERIA	MEASURE	TYPE	ALT 1	ALT 2	ALT 3	ALT 4	ALT 5 ¹	ALT 6	ALT 7 ¹	ALT8	ALT9	ALT 1	ALT 21	ALT 4	ALT 51	ALT 7	ALT8	ALT9 ¹
			Boardings/Alightings		7,409	7,311	7,397	7,751	7,330	7,418	7,444	7,610	2,002	4,914	4,855	4,134	4,865	4,686	5,957	1,325
	Mobility	Ridership	Transit systemwide ridership		232,808	233,409	235,031	234,879	233,635	235,282	235,400	235,420	232,648	232,212	232,825	233,837	233,050	233,478	233,921	232,050
		Activity	Employment at							 -										
	İ	Centers	Activity Centers		273,575	222,450	222,450	323,100	228,925	228,925	270,075	263,600	140,650	273,575	222,450	323,100	228,925	270,075	263,600	140,650
			Assessed																	
			Environmental)	_									
		Noise	Exposure ²		38.5%	38.0%	35.8%	27.7%	27.8%	23.9%	24.9%	34.6%	24.8%	38.5%	38.0%	27.7%	27.8%	24.9%	34.6%	24.8%
•		Impacts	(percent red, purple						IC			A								
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4-47	ρ		Number of schools	High	0	1	0	0	1 1	0	1	1	0	0	1	0 5	1 5	1 5	6	4
The der	.5 00		within 1/2 mile buffer	Middle	6	6	5	5	5	4	5	6	4	6	6	4	6.5	6.5	9	2
unos 10	100	1	(by type) Number of fire	Elem.	5.5	9	8	4	6.5	6.5	6.5	9	2	5.5	9	. 4	0.5	0.0	-	
Arythir under	Real		stations within 1/2		5	6	5	_	ا , ا	١ ,	4	6	3	5	6	5		4	6	3
-		·	mile buffer		5	0	5	5	4	3	•	ı "	•	"			7	,		Ĭ
,		i i	Number of																	
	Environmental/	Sensitive	fire station service		12	13	13	10	9	و ا	10	14	4	12	13	10	9	10	14	4
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	Life	1	over a rail line						ł	İ		-				i				
-		1 1	Number of school	High	15	16	13	15	14	11	16	18	7	15	16	15	14	16	18	7
			attendance	Middle	12	17	12	13	16	11	17	18	7	12	17	13	16	17	18	7
			boundaries that	Elem.	14,5	24	18	13	20.5	14.5	21.5	25	8	14.5	24	13	20.5	21.5	25	8
			cross over rail line		l															
		Treffic	Number of at-grade	İ	36	37	34	38	34	31	36	39	20	36	37	38	34	36	39	20
		Impacts	crossings	İ	i											_		_ :		
			Number for separation	ļ	5	1	1	6	1	1	2	2	2	5	1	6	1	2	2	2
			Rail Length (miles)		26.55	30.35	28.35	23.57	27.24	25.24	38.54	41.65	13.24	26.55	30.35	21.94	25.61	36.91	41.65 52108	13.24 6160
			Passenger Miles	"	93563	98639	103387	54748	52356	58949	64411	112804	8054	22810	22738	36609	20154 5.24	40551 10.54	13.55	1,60
			Annualized Passenger Miles Capital Cost ⁵	(M)	24.33	25.65	26.88	14.23	13.61	15.33	16.75	29.33	2.09	5.93	5,91	9.52		215.7	240.7	89.6
	04			(\$M)	453.6	505.1	471,1	413,8	454.7	420.7	626.8	677.2	228.4	175.3	187,0	159.7	162.1			
	Cost	Total Cost	Annualized Capital Cost ³	(\$M)	54,5	60,7	56.7	49.8	54.7	50.6	75.4	81.4	27.5	21.1	22.5	19.2	19.5	25,9	28.9	10.8
a	Effectiveness	Effective,	Annualized Fare Revenue ⁴	(\$M)	1.9	1.9	1.9	2.0	1.9	1.9	1.9	2.0	0.5	1.3	1.3	1.1	1.3	1.2	1.5 27.4	0.3
15 kufe			Net Cost	(\$M)	525	500		47.7	52.8	48.7	73.4	79.5	26.9	19.8	21.2	184	18.2	24.7 (\$2.35	\$2.02	10.4 \$6,51
655 X 1			Net Cost per Passenger Miles	ļ	2.16	\$2.29	(\$2.04	\$3.35	\$3.68	\$3,17	\$4.39	\$2.71	\$12.87	\$3.34	\$3.59	\$1.90	\$3,48	32.33	202	₹0.51
15 KUPE	r		Net Cost per boarding	(\$)	\$ 27.32	\$ 30.96	\$ 28,46/	\$ 23,69	\$ 27.69	\$ 25.23	\$ 37.94	\$ 40.16	€ 54.7E	\$ 15.50	16.87	(\$ (16.86	14.41	\$ 20.29	17.69	\$ 30,28
		 	and alighting	(4)	27.32	30.96	28,46	\$ 123,69) 3 27.69	3 27.23	37.84	3 40.16	31.70	(13.50)	K """	10.00	['``' <u>'</u>			
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1 Ridership derived from other forecasts.

Source: NCTCOG

(AURPORT)

(BY DATA)

(AURPORT)

(P) 880

² Percent of route with existing single family or multifamily landuse with 85 feet of track; see attached map.

³ Used DART unit costs and 0.12026 capital recovery factor, (20 yr; 3.5 %)

⁴ Used 260 days/year annualization factor and \$1/ride flatfare.

⁵ Assumes \$3M per grade separation and 1.4M per at-grade crossing