



ALBUQUERQUE STREETCAR EVALUATION

Appendices

Prepared for:



The City of Albuquerque

Prepared by:

LELAND CONSULTING GROUP

FEHR & PEERS

17 July 2008

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	February 2008 Introductory Presentation	

A. Relevant HDR Documents

The following is a list of documents produced by HDR Engineering, Inc. and its partner firms during the 2006 phase of streetcar analysis and engineering. These documents were reviewed by Leland Consulting Group and Fehr & Peers and informed the Aluquerque Streetcar Evalution process. Relevant documents are listed below in order of completion date. Except where otherwise noted, the author is HDR, Inc.

- Albuquerque Modern Streetcar Conceptual Downtown Alternatives Assessment June 9, 2006, Downtown Alternatives Assessment.pdf
- Preferred Streetcar Alignment Map.pdf August 29, 2006
- Evaluation of Operations Options, September 7, 2006, pdf document.
- Re: Evaluation of Operations Options September 13, 2006, Evaluation of Operations Option-091206-FINAL.pdf
- Re: Albuquerque Streetcar Ridership Forecasting Alternatives Analysis September 24, 2006
- RE: Traction Power Sizing, Spacing and Siting Study October 11, 2006, Traction Power Study.pdf
- Conceptual Traffic Design Report URS Corporation with HDR, Final Draft for Client Review, October 25, 2006
- Best Lane Analysis Airport Segment URS Corporation with HDR, Final Draft for Client Review, October 31, 2006
- Best Lane Analysis Central Avenue Segment URS Corporation with HDR, Revised Final Draft for Client Review, November 2, 2006, CentralAveBestLane110606.pdf
- CONCEPTUAL COST ESTIMATE REVISION 2 NOVEMBER 3, 2006, Albuquerque Unit Price Estimate_Rev 1A.xls
- Albuquerque Streetcar Maintenance Facility LTK ENGINEERING SERVICES, 03, November 2006, MSF Site Location Study.pdf
- Albuquerque Modern Streetcar [presentation] HDR Streetcar Presentation.pdf, date unknown

B. Streetcar Peer Systems

 Table 1. Streetcar System Comparison – Segments (A)

		VIN	TAGE			MODERN				
	Kenosha	Tampa	Little Rock	Memphis	Tacoma	Seattle^	Portland	Albuquerque Segment A Atrisco to 4th^^	Albuquerque Segment B 4th to Girard^^	Albuquerque Segment C Girard to San Mateo^^
SYSTEM DETAILS										
Year Completed	2000	2002	2004	1993	2003	2007	2001	2011	2011	2011
Vehicle Type	vintage	vintage	vintage	vintage	modern	modern	modern	modern	modern	modern
Track Length (miles)	1.7	2.4	3.5	7	1.6	2.6	4	2.5	2.2	1.6
Stations	17	10	14	24	5	11	42	8	8	3
Streetcars	5	9	5	19	3	3	10	3	2	2
ROW	mixed flow	mixed flow	mixed flow	mixed flow	dedicated ROW	mixed flow	mixed flow	mixed flow	mixed flow	mixed flow
Routes	1	1	2	3	1	1	1	1	1	1
OPERATION DETAILS										
Fares	\$0.25	\$2.00	\$0.50	\$0.60	FREE	\$1.50	FREE to \$1.70	\$1.00	\$1.00	\$1.00
Service Hours	Summer M-F 10a-7p Sa-Su 10a-5:30p Winter M-F 10a-2p	M-W 11a-10p Th 11a-11p F 11a-2a Sat 9a-2a Sun noon-8p	M-W 11a-10p Th-Sa 11-midnight Sun 11:00a-5p	M-Th 6a-11p F 6a-1a Sa 9:30a-1a Sun 10a-6p	M-F 5a-8p Sa 8a-10p Su 10a-8p	M-Th 6a-9p F-Sat 6a-11p Sun 10a-7p	M-Th 5:30a-11:30p F 5:30a-12:00am Sat 7:15a-11:45p Sun 7:15a-10:30p	M-F 5:30a-12:00a Sat 7a-12:00a Sun 7a-12:00a	M-F 5:30a-12:00a Sat 7a-12:00a Sun 7a-12:00a	M-F 5:30a-12:00a Sat 7a-12:00a Sun 7a-12:00a
Total Weekly Service Hours	60	85	78	110.5	99	103	122.5	126.5	126.5	126.5
Peak Headway (minutes)	30	15	20	10	10	15	13	10	10	10
RIDERSHIP DETAILS										
Annual Ridership	58,000	435,000	200,020	1,000,000	740,000	330,000	3,476,764	366,759	916,161	545,354
Average Weekday Ridership***	199	1,490	685	3,425	2,925	1,300	10,001	1,277	3,189	1,898
CAPITAL COST DETAILS										
Capital Cost (millions)	\$5	\$53	\$27	\$101	\$81	\$52	\$100	\$70	\$62	\$45
Capital Cost per Mile (millions)	\$3	\$22	\$8	\$14	\$51	\$20	\$25	\$28	\$28	\$28
Capital Cost per Annual Rider	\$86	\$122	\$135	\$101	\$109	\$158	\$29	\$191	\$67	\$82
OPERATION COST DETAILS										
Annual Operating Cost **	\$300,000	\$2,400,000	\$850,000	\$4,300,000	\$3,940,000	\$2,000,000	\$4,800,000	\$2,201,983	\$1,293,661	\$1,293,661
Cost Per Passenger	\$5	\$6	\$4	\$4	\$5	\$6	\$1	\$6	\$1	\$2
Cost per Passenger per Mile	\$3	\$2	\$1	\$0.6	\$3	\$2	\$0.3	\$2.4	\$0.6	\$1.5

Table 2. Streetcar System Comparison – Segments (B)

RIDERSHIP GENERATORS*										
Stadium (seats)	0	20,500	18,000	20,000	23,000	0	0	72,000	72,000	72,000
International Airport (mill annual pass.)	0	0	2.1	0	0	0	0	6.4	6.4	6.4
University (enrolment)	0	0	0	0	2,292	0	24,000	26,000	26,000	26,000
Convention Center (sq ft)	10,000	600,000	33,000	350,000	120,000	0	0	600,000	600,000	600,000
Medical Center/Hospital (employees)	0	0	0	3,000	0	2,800	4,500	3,400	3,400	3,400
Other Destinations	Harbor Park	Cruise Port	Clinton Library	Beal St	State Museum	Seattle Center	Theater District	Historic Plaza	Historic Plaza	Historic Plaza
RAIL TRANSIT CONNECTIONS*										
Commuter Rail	✓				✓			✓	✓	\checkmark
Light Rail							✓			
Monorail						✓				
PARK AND RIDE FACILITIES*										
Surface Parking	✓			✓				TBD	TBD	TBD
Parking Structure		✓	✓		1		✓	TBD	TBD	TBD
CBD PARKING										
Off Street - Publicly Operated	1,000	16,000	0	3,700	2,500		4,000	1,500	1,500	1,500
Maximum Daily Parking Rate (public facilities)	\$1.50	\$9.50	\$0.00	\$12.00	\$12.00		\$13.00	\$8.00	\$8.00	\$8.00
FINANCING TOOLS										
Capital	FTA 5309 Tax Increment Financing	CMAQ FTA 5309 State DOT City of Tampa Port Authority Development Impact Fees	Federal Small Starts City of North Little Rock City of Little Rock Pulaski County	FTA 5307 City of Memphis TDOT MATA	Regional Transit Tax	Local Improvement District State and Federal Grants City Property Sale Proceeds Private Contribution	Parking Revenue Local Improvement Districts Development Agreements Federal (Non Transportation) City of Portland	TBD	TBD	TBD
Operating	Fare Box Federal State	Fare Box Special Assessment District Endowment from Naming Rights Advertising State Block Operating Assistance FTA CMAQ Tampa Port Authority	Fare Box Federal Cities/Counties	Fare Box	Regional Transit Tax	Fare Box FTA 5307/5309 Streetcar and Station Sponsorship Bulk Pass	TriMet Parking Revenue Fare Box	TBD	TBD	TBD

\$300,000

\$5

\$3

\$2,400,000

\$6

\$2

\$850,000

\$4

\$1

		VIN	TAGE			MODERN			
	Kenosha	Tampa	Little Rock	Memphis	Tacoma	Seattle^	Portland	Albuquerque 4th to Girard^^	Albuquerque 4th to San Mateo^^
SYSTEM DETAILS									
Year Completed	2000	2002	2004	1993	2003	2007	2001	2011	2011
Vehicle Type	vintage	vintage	vintage	vintage	modern	modern	modern	modern	modern
Track Length (miles)	1.7	2.4	3.5	7	1.6	2.6	4	2.2	3.8
Stations	17	10	14	24	5	11	42	9	16
Streetcars	5	9	5	19	3	3	10	2	4
ROW	mixed flow	mixed flow	mixed flow	mixed flow	dedicated ROW	mixed flow	mixed flow	mixed flow	mixed flow
Routes	1	1	2	3	1	1	1	1	1
OPERATION DETAILS									
Fares	\$0.25	\$2.00	\$0.50	\$0.60	FREE	\$1.50	FREE to \$1.70	\$1.00	\$1.00
Service Hours	Summer M-F 10a-7p Sa-Su 10a-5:30p Winter M-F 10a-2p	M-W 11a-10p Th 11a-11p F 11a-2a Sat 9a-2a Sun noon-8p	M-W 11a-10p Th-Sa 11-midnight Sun 11:00a-5p	M-Th 6a-11p F 6a-1a Sa 9:30a-1a Sun 10a-6p	M-F 5a-8p Sa 8a-10p Su 10a-8p	M-Th 6a-9p F-Sat 6a-11p Sun 10a-7p	M-Th 5:30a-11:30p F 5:30a-12:00am Sat 7:15a-11:45p Sun 7:15a-10:30p	M-F 5:30a-12:00a Sat 7a-12:00a Sun 7a-12:00a	M-F 5:30a-12:00a Sat 7a-12:00a Sun 7a-12:00a
Total Weekly Service Hours	60	85	78	110.5	99	103	122.5	126.5	126.5
Peak Headway (minutes)	30	15	20	10	10	15	13	10	10
RIDERSHIP DETAILS									
Annual Ridership	58,000	435,000	200,020	1,000,000	740,000	330,000	2,365,200	916,161	1,461,515
Average Weekday Ridership	199	1,490	685	3,425	2,534	1,130	8,100	3,189	5,087
CAPITAL COST DETAILS									
Capital Cost (millions)	\$5	\$53	\$27	\$101	\$81	\$52	\$100	\$62	\$47
Capital Cost per Mile (millions)	\$3	\$22	\$8	\$14	\$51	\$20	\$25	\$28	\$29
Capital Cost per Annual Rider	\$86	\$122	\$135	\$101	\$109	\$158	\$42	\$67	\$32
OPERATION COST DETAILS									

\$4,300,000

\$4

\$0.6

\$3,940,000

\$5

\$3

\$2,000,000

\$6

\$2

\$4,800,000

\$2

\$0.5

Table 3. Streetcar System Comparison – Cumulative

Source: Fehr & Peers

Annual Operating Cost**

Cost Per Passenger

Cost per Passenger per Mile

Albuquerque Atrisco to San Mateo^^ 2011 modern 6.3 19 6 mixed flow 1 \$1.00 M-F 5:30a-12:00a Sat 7a-12:00a Sun 7a-12:00a 126.5 10 1,828,275 6,364 \$76 \$30 \$41

\$4,403,966

\$2 \$0.4

\$3,110,304

\$2

\$0.6

\$1,293,661

\$1

\$0.6

C. Operations Cost

Review of Operating Scenarios and Costs June 20, 2008

In September of 2006, HDR prepared a memo called Evaluation of Operations Options. The document described nine operating options and associated costs for the proposed Albuquerque Streetcar. The scenarios considered two lines: a Central Route running from Tingley Drive to Carlisle Boulevard and an Airport Route with service from Albuquerque International Sunport with three route variations. Theses route options were analyzed for 15, 20, and 30 minute headways. Operating costs for the different scenarios ranged from \$3,029,000 to \$5,128,000.

Since the HDR memo significant changes have been made to the streetcar routes, route lengths, and phase segments. Fehr & Peers conducted a review of HDR's analysis and prepared a new set of operating scenarios. The current scenarios do not include an airport route. Rather, operations are considered for the central route that runs along Historic Highway 66/Central Avenue from Atrisco Drive to San Mateo Boulevard. The route has been divided into three sections: section A runs 2.5 miles from Atrisco Drive to 4th Street, section B runs 2.2 miles from 4th Street to Girard Boulevard, and section C runs 1.6 miles from Girard Boulevard to San Mateo Boulevard.

Three operating scenarios were considered: an aggressive scenario, a moderate scenario, and a conservative scenario. In the aggressive scenario the streetcar will operate with 10 minute headways during the weekday peak and weekday base periods and 15-20 minute headways all other times. In the moderate scenario the streetcar operates with 10 minute headways during the weekday peak only and 15-20 minute headways all other times. In the conservative scenario the streetcar operates with 20 minute headways at all times. Additionally, the aggressive scenario used a phasing plan that built segment B in 2009, segment C in 2010, and segment A in 2020. The conservative scenario built segment C in 2020, and segment A in 2030.

The three operating scenarios are based on several assumptions. The system was assumed to operate 254 weekdays, 52 Saturdays, and 59 Sundays and holidays. The presumed hours of operation used are shown below:

Weekday	Early Morning AM Peak Base PM Peak Evening	5:30 - 7:00 a.m. 7:00 - 9:00 a.m. 9:00 a.m 4:00 p.m. 4:00 - 6:00 p.m. 6:00 p.m 12:00 a.m.
Saturday	Base Evening	7:00 a.m. – 6:00 p.m. 6:00 p.m. – 12:00 a.m.
Sunday	Base Evening	7:00 a.m. – 6:00 p.m. 6:00 p.m. – 12:00 a.m.

Additionally, during these hours the street car was assumed to operate at an average speed of 14 miles per hour, which included delays for stops as well as layover time. Finally, operating cost calculations for these scenarios used \$130 per vehicle revenue hour in 2008. This number was grown 3% a year to account for inflation and other cost increases from 2009 to 2030.

Using this information, the operating details of each segment as well as the whole line were calculated for each of the three scenarios. Results for the aggressive scenario can be found in the Summary Matrix.

Table 4. Operations Costs - By Segment, 2011

Operation cost for each alignment section; assumes each segment is operating independently in 2011.

		Distance	Average	Run Time	Headway	# Vehicles	Revenue Hours	Daily Cost	Annual Cos
Soamon	t A - Atrisco to	Ath - 2011	Speed		·		Hours		
	Early Morning	2.5	14	11	15	2	3 \$	414	\$ 105,09
veenday	Peak	2.5	14	11	10	3	6\$		\$ 210,18
	Base	2.5	14	11	10	3	21 \$		\$ 735,64
							6 \$		
	Peak	2.5	14	11	10	3			
	Evening	2.5	14	11	15	2	12 \$		\$ 420,37
Veekday	Total						\$	6,620	\$ 1,681,48
aturday		2.5	14	11	15	2	22 \$,	\$ 157,77
aturday	Evening Total	2.5	14	11	15	2	12 \$ \$		\$ 86,00 \$ 243,8 3
unday	Base	2.5	14	11	15	2	22 \$	3,034	\$ 179,01
	Evening	2.5	14	11	15	2	12 \$	1,655	\$ 97,64
unday T							\$	4,689	\$ 276,66
Annual 1	otai								\$ 2,201,98
egmen	t B - 4th to Gira	ard - 2011							
/eekday	Early Morning	2.2	14	9	20	1	1.5 \$		\$ 52,54
	Peak	2.2	14	9	10	2	4 \$		\$ 140,12
	Base	2.2	14	9	10	2	14 \$		\$ 490,43
	Peak	2.2	14	9	10	2	4 \$	552	\$ 140,12
	Evening	2.2	14	9	20	1	6 \$		\$ 210,18
Veekday		_		-	-		\$		\$ 1,033,41
Saturday	Base	2.2	14	9	20	1	11 \$		\$ 78,88
aturday	Evening Total	2.2	14	9	20	1	6\$ \$		\$ 43,03 \$ 121,91
				0	00			,	
unday	Base Evening	2.2 2.2	14 14	9 9	20 20	1	11 \$ 6 \$		\$ 89,50 \$ 48,82
	Evening	2.2	14	9	20	1	6 3	828	
							<u>.</u>	0.045	
Annual 1 Segmen		San Mateo - 20 1.6)11 14	7	15	1	\$ 1.5 \$	·	\$ 1,293,66
Annual 1 Segmen Veekday	Total t C - Girard to s Early Morning Peak Base Peak Evening			7 7 7 7 7	15 10 10 10 15	1 2 2 2 1	1.5 \$ 4 \$ 14 \$ 4 \$ 6 \$	207 552 1,931 552 828	\$ 1,293,66 \$ 52,54 \$ 140,12 \$ 490,43 \$ 140,12 \$ 210,18
Veekday Veekday	Total t C - Girard to S Early Morning Peak Base Peak Evening Total	1.6 1.6 1.6 1.6 1.6	14 14 14 14 14	7 7 7 7	10 10 10 15	2 2 2 1	1.5 \$ 4 \$ 14 \$ 4 \$ 6 \$	207 552 1,931 552 828 4,069	\$ 1,293,66 \$ 52,54 \$ 140,12 \$ 490,43 \$ 140,12 \$ 210,18 \$ 1,033,41
Annual 1 Segmen Veekday Veekday	Total Early Morning Peak Base Peak Evening Total Base	1.6 1.6 1.6 1.6 1.6	14 14 14 14 14	7 7 7	10 10 15 15	2 2 1 1	1.5 \$ 4 \$ 14 \$ 4 \$ 6 \$ \$ 11 \$	207 552 1,931 552 828 4,069 1,517	\$ 1,293,666 \$ 52,54 \$ 140,12 \$ 490,43 \$ 140,12 \$ 210,18 \$ 1,033,41 \$ 78,88
Annual 1 Segmen Veekday Veekday Saturday	Total t C - Girard to S Early Morning Peak Base Peak Evening Total Base Evening	1.6 1.6 1.6 1.6 1.6	14 14 14 14 14	7 7 7 7 7	10 10 10 15	2 2 2 1	1.5 \$ 4 \$ 14 \$ 4 \$ 6 \$	207 552 1,931 552 828 4,069 1,517 828	\$ 1,293,66 \$ 52,54 \$ 140,12 \$ 490,43 \$ 140,12 \$ 210,18 \$ 1,033,41 \$ 78,88 \$ 43,03
Annual 1 Segmen Veekday	Total Early Morning Peak Base Peak Evening Total Base Evening Total Base Evening	1.6 1.6 1.6 1.6 1.6 1.6 1.6	14 14 14 14 14 14 14	7 7 7 7 7 7 7	10 10 15 15 15	2 2 1 1 1	1.5 \$ 4 \$ 14 \$ 6 \$ \$ 11 \$ 6 \$ \$ 11 \$	207 552 1,931 552 828 4,069 1,517 828 2,345 1,517	\$ 1,293,66 \$ 52,54 \$ 140,12 \$ 490,43 \$ 140,12 \$ 210,16 \$ 1,033,41 \$ 78,86 \$ 43,03 \$ 121,91 \$ 89,50
Annual 1 Segmen Veekday Veekday Saturday Saturday Saturday	Total t C - Girard to S Early Morning Peak Base Peak Evening Total Base Evening Total Base Evening Total Base Evening	1.6 1.6 1.6 1.6 1.6 1.6	14 14 14 14 14 14	7 7 7 7 7 7	10 10 15 15	2 2 1 1 1	1.5 \$ 4 \$ 14 \$ 6 \$ 5 11 \$ 6 \$ 11 \$ 6 \$	207 552 1,931 552 828 4,069 1,517 828 2,345 1,517 828	\$ 1,293,66 \$ 52,54 \$ 140,12 \$ 490,43 \$ 140,12 \$ 210,18 \$ 1,033,41 \$ 78,88 \$ 43,03 \$ 121,91 \$ 89,50 \$ 48,82
Annual 1 Segmen Veekday Veekday Saturday Saturday Sunday Sunday T	Total t C - Girard to S Early Morning Peak Base Peak Evening Total Base Evening Total Base Evening Total Base Evening Total	1.6 1.6 1.6 1.6 1.6 1.6 1.6	14 14 14 14 14 14 14	7 7 7 7 7 7 7	10 10 15 15 15	2 2 1 1 1	1.5 \$ 4 \$ 14 \$ 4 \$ 6 \$ \$ 11 \$ 6 \$ \$ 11 \$	207 552 1,931 552 828 4,069 1,517 828 2,345 1,517 828	\$ 1,293,66 \$ 52,54 \$ 140,12 \$ 490,43 \$ 140,12 \$ 210,18 \$ 1,033,41 \$ 78,88 \$ 43,03 \$ 121,91 \$ 89,50
Annual 1 Segmen Veekday Veekday Saturday Saturday Sunday Sunday T Annual 1	Total t C - Girard to S Early Morning Peak Base Peak Evening Total Base Evening Total Base Evening otal Total Total	1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	14 14 14 14 14 14 14 14	7 7 7 7 7 7 7 7	10 10 15 15 15	2 2 1 1 1	1.5 \$ 4 \$ 14 \$ 6 \$ 5 11 \$ 6 \$ 11 \$ 6 \$	207 552 1,931 552 828 4,069 1,517 828 2,345 1,517 828	\$ 1,293,66 \$ 52,5 \$ 140,12 \$ 490,43 \$ 140,12 \$ 210,14 \$ 1,033,47 \$ 78,88 \$ 43,02 \$ 121,97 \$ 89,50 \$ 48,88 \$ 138,33
Segmen Veekday Veekday Saturday Saturday Sunday Sunday Tunnual 1	Total Early Morning Peak Base Peak Evening Total Base Evening Total Base Evening otal Total Base Evening Total Evening Total Evening Total Evening Total Evening Total Evening Total Early Morning	1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 5:30:00 AM	14 14 14 14 14 14 14 14 14 7:00:00 AM	7 7 7 7 7 7 7	10 10 15 15 15	2 2 1 1 1	1.5 \$ 4 \$ 14 \$ 6 \$ 5 11 \$ 6 \$ 11 \$ 6 \$	207 552 1,931 552 828 4,069 1,517 828 2,345 1,517 828	\$ 1,293,66 \$ 52,5 \$ 140,12 \$ 490,43 \$ 140,12 \$ 210,14 \$ 1,033,47 \$ 78,88 \$ 43,02 \$ 121,97 \$ 89,50 \$ 48,88 \$ 138,33
Annual 1 Segmen Veekday Veekday Saturday Saturday Sunday Sunday T Annual 1	Total Early Morning Peak Base Peak Evening Total Base Evening Total Base Evening Total Base Evening Total Base Evening Base Base Evening Base Base Evening Base	1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 5:30:00 AM 7:00:00 AM	14 14 14 14 14 14 14 14 14 14 9:00:00 AM 9:00:00 AM	7 7 7 7 7 7 7 7	10 10 15 15 15	2 2 1 1 1	1.5 \$ 4 \$ 14 \$ 6 \$ 5 11 \$ 6 \$ 11 \$ 6 \$	207 552 1,931 552 828 4,069 1,517 828 2,345 1,517 828	\$ 1,293,66 \$ 52,52 \$ 140,12 \$ 490,43 \$ 140,12 \$ 210,18 \$ 1,033,41 \$ 78,88 \$ 43,03 \$ 121,91 \$ 89,50 \$ 48,82 \$ 138,33
Segmen Veekday Veekday Saturday Saturday Sunday Sunday Tunnual 1	Total C - Girard to S Early Morning Peak Base Peak Evening Total Base Evening Total Base Evening Total Base Evening Total Base Evening Cotal Fotal Early Morning Peak Base Base Base Base Base Base Base Base	1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 5:30:00 AM 7:00:00 AM 9:00:00 AM	14 14 14 14 14 14 14 14 14 14 14 14 200:00 AM 4:00:00 PM	7 7 7 7 7 7 7 7 7	10 10 15 15 15	2 2 1 1 1	1.5 \$ 4 \$ 14 \$ 6 \$ 5 11 \$ 6 \$ 11 \$ 6 \$	207 552 1,931 552 828 4,069 1,517 828 2,345 1,517 828	\$ 1,293,66 \$ 52,52 \$ 140,12 \$ 490,43 \$ 140,12 \$ 210,18 \$ 1,033,41 \$ 78,88 \$ 43,03 \$ 121,91 \$ 89,50 \$ 48,82 \$ 138,33
Annual 1 Segmen Veekday aturday aturday unday unday Unday T	Total C - Girard to S Early Morning Peak Base Peak Evening Total Base Evening Total Base Evening Total Base Evening Cotal Cotal Early Morning Peak Base Peak	1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 5:30:00 AM 7:00:00 AM 9:00:00 AM 4:00:00 PM	14 14 14 14 14 14 14 14 14 14 14 14 14 1	7 7 7 7 7 7 7 7 7 7 7 2	10 10 15 15 15	2 2 1 1 1	1.5 \$ 4 \$ 14 \$ 6 \$ 5 11 \$ 6 \$ 11 \$ 6 \$	207 552 1,931 552 828 4,069 1,517 828 2,345 1,517 828	\$ 1,293,66 \$ 52,52 \$ 140,12 \$ 490,43 \$ 140,12 \$ 210,18 \$ 1,033,41 \$ 78,88 \$ 43,03 \$ 121,91 \$ 89,50 \$ 48,82 \$ 138,33
Segmen Veekday Veekday Saturday Saturday Sunday Sunday Tunnual 1	Total C - Girard to S Early Morning Peak Base Peak Evening Total Base Evening Total Base Evening Total Base Evening Total Base Evening Cotal Fotal Early Morning Peak Base Base Base Base Base Base Base Base	1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 5:30:00 AM 7:00:00 AM 9:00:00 AM	14 14 14 14 14 14 14 14 14 14 14 14 200:00 AM 4:00:00 PM	7 7 7 7 7 7 7 7 7	10 10 15 15 15	2 2 1 1 1	1.5 \$ 4 \$ 14 \$ 6 \$ 5 11 \$ 6 \$ 11 \$ 6 \$	207 552 1,931 552 828 4,069 1,517 828 2,345 1,517 828	\$ 1,293,66 \$ 52,55 \$ 140,12 \$ 490,43 \$ 140,12 \$ 210,18 \$ 1,033,47 \$ 78,88 \$ 43,03 \$ 121,97 \$ 89,50 \$ 48,83 \$ 138,33
Annual 1 Segmen Veekday Veekday Saturday Saturday Sunday Sunday T Annual 1 Veekday	Total Cotal Early Morning Peak Base Peak Evening Total Base Evening Total Base Evening Total Base Evening Cotal Early Morning Peak Base Peak Evening Cotal Base Peak Base Peak Evening Base Peak Base	1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 5:30:00 AM 7:00:00 AM 9:00:00 AM 4:00:00 PM 6:00:00 PM	14 14 14 14 14 14 14 14 14 14 14 14 14 1	7 7 7 7 7 7 7 7 7 7 7 2 6	10 10 15 15 15	2 2 1 1 1	1.5 \$ 4 \$ 14 \$ 6 \$ 5 11 \$ 6 \$ 11 \$ 6 \$	207 552 1,931 552 828 4,069 1,517 828 2,345 1,517 828	\$ 1,293,66 \$ 52,52 \$ 140,12 \$ 490,43 \$ 140,12 \$ 210,18 \$ 1,033,41 \$ 78,88 \$ 43,03 \$ 121,91 \$ 89,50 \$ 48,82 \$ 138,33
Annual 1 Segmen Veekday Veekday Saturday Saturday Sunday Sunday T Annual 1	Total Cotal Early Morning Peak Base Peak Evening Total Base Evening Total Base Evening Total Base Evening Cotal Early Morning Peak Base Peak Evening Cotal Base Peak Base Peak Evening Base Peak Base	1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 5:30:00 AM 7:00:00 AM 9:00:00 AM 4:00:00 PM	14 14 14 14 14 14 14 14 14 14 14 14 14 1	7 7 7 7 7 7 7 7 7 7 7 2	10 10 15 15 15	2 2 1 1 1	1.5 \$ 4 \$ 14 \$ 6 \$ 5 11 \$ 6 \$ 11 \$ 6 \$	207 552 1,931 552 828 4,069 1,517 828 2,345 1,517 828	\$ 1,293,66 \$ 52,55 \$ 140,12 \$ 490,43 \$ 140,12 \$ 210,18 \$ 1,033,47 \$ 78,88 \$ 43,03 \$ 121,97 \$ 89,50 \$ 48,83 \$ 138,33
Annual 1 Segmen Veekday Veekday Saturday Saturday Sunday T Annual 1 Veekday	Total Early Morning Peak Base Peak Evening Total Base Evening Total Base Evening Total Base Evening Base Evening Base Evening Base Peak Base Peak Evening Base Base Evening Base Base Base Evening Base Base Base Base Base Base Base Base	1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	14 14 14 14 14 14 14 14 14 14 14 14 14 1	7 7 7 7 7 7 7 7 7 7 7 7 7 7 2 6 11 6	10 10 15 15 15	2 2 1 1 1	1.5 \$ 4 \$ 14 \$ 6 \$ 5 11 \$ 6 \$ 11 \$ 6 \$	207 552 1,931 552 828 4,069 1,517 828 2,345 1,517 828	\$ 1,293,66 \$ 52,5 \$ 140,12 \$ 490,43 \$ 140,12 \$ 210,14 \$ 1,033,47 \$ 78,88 \$ 43,02 \$ 121,97 \$ 89,50 \$ 48,88 \$ 138,33
Nonual 1 Segmen Veekday Veekday Saturday Saturday Sunday T Nonual 1 Veekday	Total C - Girard to S Early Morning Peak Base Peak Evening Total Base Evening Total Base Evening Total Base Evening Otal Cotal Early Morning Peak Base Peak Evening Base Evening Base Base Peak Evening Base	1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 5:30:00 AM 7:00:00 AM 4:00:00 PM 6:00:00 PM 7:00:00 AM	14 14 14 14 14 14 14 14 14 14 14 14 14 1	7 7 7 7 7 7 7 7 7 7 7 2 6	10 10 15 15 15	2 2 1 1 1	1.5 \$ 4 \$ 14 \$ 6 \$ 5 11 \$ 6 \$ 11 \$ 6 \$	207 552 1,931 552 828 4,069 1,517 828 2,345 1,517 828	\$ 1,293,66 \$ 52,5 \$ 140,12 \$ 490,43 \$ 140,12 \$ 210,14 \$ 1,033,47 \$ 78,88 \$ 43,02 \$ 121,97 \$ 89,50 \$ 48,88 \$ 138,33

59 sundays and holidays

Table 5. Operations Costs – Cumulative Costs, 2011

Cumulative Operations costs assuming operations roll out of Alignment Sections in B - C - A order.

A. Agg	ressive Str	eetcar Con	struction &	Redevelo	oment (201	1) - Cumula	ative		
		Distance	Average Speed	Run Time	Headway	# Vehicles	Revenue Hours	Daily Cost	Annual Cost
4th to G	irard - 2011		·						
Weekday	Early Morning Peak Base Peak Evening	2.2 2.2 2.2 2.2 2.2 2.2	14 14 14 14 14	9 9 9 9 9	20 10 10 10 20	1 2 2 2 1		\$ 552	\$ 52,540 \$ 140,124 \$ 490,433 \$ 140,124 \$ 140,124 \$ 210,180
Weekday				C C	20			\$ 4,069	\$ 1,033,41
Saturday Saturday	Evening	2.2 2.2	14 14	9 9	20 20	1 1		\$ 1,517 \$ 828 \$ 2,345	\$ 78,889 \$ 43,030 \$ 121,91 9
Sunday Sunday T	Base Evening otal	2.2 2.2	14 14	9 9	20 20	1 1		\$ 1,517 \$ 828 \$ 2,345	\$ 89,50 \$ 48,82 \$ 138,33
Annual 1	Total								\$ 1,293,66
4th to Sa	an Mateo - 2011	1							
Weekday Weekday	Early Morning Peak Base Peak Evening Total	3.8 3.8 3.8 3.8 3.8 3.8	14 14 14 14 14	16 16 16 16 16	15 10 10 10 15	3 4 4 3	18	\$ 1,103	\$ 157,638 \$ 280,247 \$ 980,866 \$ 280,247 \$ 630,557 \$ 2,329,556
Saturday	Base	3.8	14	16	15	3	33	\$ 4,551	\$ 236,666
Saturday	Evening Total	3.8	14	16	15	3	18	\$ 2,483 \$ 7,034	\$ 129,090 \$ 365,75 0
Sunday Sunday T	Base Evening otal	3.8 3.8	14 14	16 16	15 15	3 3	33 18		\$ 268,52 \$ 146,46 \$ 414,99
	to San Mateo - Early Morning Peak Base Peak	2011 6.3 6.3 6.3 6.3	14 14 14 14	27 27 27 27 27	15 10 10 10	4 6 6 6	6 12 42 12	\$	\$ 210,18 \$ 420,37 \$ 1,471,29 \$ 420,37
Weekday	Evening Total	6.3	14	27	15	4	24	\$ 3,310 \$ 13,240	\$ 840,74 \$ 3,362,96
Saturday Saturday	Evening	6.3 6.3	14 14	27 27	15 15	4 4	44 24		\$ 315,55 \$ 172,12 \$ 487,67
Sunday Sunday T Annual T		6.3 6.3	14 14	27 27	15 15	4 4	44 24		\$ 358,03 \$ 195,29 \$ 553,32 \$ 4,403,96
Weekday	Early Morning Peak Base Peak Evening	Hours of O 5:30:00 AM 7:00:00 AM 9:00:00 AM 4:00:00 PM 6:00:00 PM	Peration 7:00:00 AM 9:00:00 AM 4:00:00 PM 6:00:00 PM 12:00:00 AM	1.5 2 7 2 6					
Saturday	Base Evening	7:00:00 AM 6:00:00 PM	6:00:00 PM 12:00:00 AM	11 6					
Sunday	Base Evening	7:00:00 AM 6:00:00 PM	6:00:00 PM 12:00:00 AM	11 6					
	weekdays saturdays								

52 saturdays 59 sundays and holidays

Table 6. Operations Costs – Moderate Construction Timeline, Cumulative Costs

Cumulative Operations costs assuming operations roll out of Alignment Sections in B – C – A order.

		Distance	Average Speed	Run Time	Headway	# Vehicles	Revenue Hours	Daily Cost	Annual Co
	to San Mateo -								
/eekday	Early Morning	6.3	14	27	15	4	6		\$ 274,2
	Peak	6.3	14	27	10	6	12 28		\$ 548,4
	Base Peak	6.3 6.3	14 14	27 27	15 10	4 6	20 12	+ -,	\$ 1,279,8
			14	27	10	6		\$ 2,159 \$ 4,319	\$ 548,4
/eekday	Evening Total	6.3	14	21	15	4	24	\$ 14,756	\$ 1,096,9 \$ 3,748,0
aturday	Base	6.3	14	27	15	4	44	\$ 7,918	\$ 411,7
aturday	Evening Total	6.3	14	27	15	4	24	\$ 4,319 \$ 12,237	\$ 224,5 \$ 636,3
unday	Base	6.3	14	27	15	4	44		\$ 467,1
	Evening	6.3	14	27	15	4	24	\$ 4,319	\$ 254,8
unday T Innual 1								\$ 12,237	\$721,9 \$5,106,2
th to G	irard - 2011								
eekday	Early Morning	2.2	14	9	20	1	1.5		\$ 52,5
	Peak	2.2	14	9	10	2	4		\$ 140,1
	Base	2.2	14	9	20	1		\$ 965 \$ 552	\$ 245,2
	Peak Evening	2.2 2.2	14 14	9 9	10 20	2 1		\$ 552 \$ 828	\$ 140,1 \$ 210,1
/eekday	0	2.2	14	9	20	I	0	\$ 3,103	\$ 788 ,1
aturday	Base	2.2	14	9	20	1	11		\$ 78,8
aturday	Evening Total	2.2	14	9	20	1	6	\$ 828 \$ 2,345	\$ 43,0 \$ 121, 9
unday	Base	2.2	14	9	20	1	11		\$ 89,5
	Evening	2.2	14	9	20	1	6	\$ 828	\$ 48,8
unday T Innual 1								\$ 2,345	\$ 138,3 \$ 1,048,4
th to Sa	an Mateo - 201	5							
/eekday	Early Morning	3.8	14	16	20	2	3		\$ 118,2
	Peak	3.8	14	16	10	4	8	. ,	\$ 315,4
	Base	3.8	14	16	20	2	14		\$ 551,9
	Peak	3.8	14	16	10	4		\$ 1,242	\$ 315,4
/eekday	Evening Total	3.8	14	16	20	2	12	\$ 1,863 \$ 6,985	\$ 473,1 \$ 1,774,2
aturday		3.8	14	16	20	2	22		\$ 177,5
aturday	Evening Total	3.8	14	16	20	2	12	\$ 1,863 \$ 5,278	\$ 96,8 \$ 274, 4
unday	Base	3.8	14	16	20	2	22		\$ 201,4
unday T	Evening	3.8	14	16	20	2	12	\$ 1,863 \$ 5,278	\$ 109,9 \$ 311,3
nnual 1								φ 3,270	\$ 2,360,0
		Hours of O	•						
/eekday	Early Morning	5:30:00 AM	7:00:00 AM	1.5					
	Peak	7:00:00 AM	9:00:00 AM	2					
	Base	9:00:00 AM	4:00:00 PM	7					
	Peak Evening	4:00:00 PM 6:00:00 PM	6:00:00 PM 12:00:00 AM	2 6					
aturday	Base Evening	7:00:00 AM 6:00:00 PM	6:00:00 PM 12:00:00 AM	11 6					
unders	Deee	7.00.00	6:00:00 DM						
unday	Base Evening	7:00:00 AM 6:00:00 PM	6:00:00 PM 12:00:00 AM	11 6					
254	weekdays								

Table 7. Operations Costs – Conservative Construction Timeline, Cumulative Costs

Cumulative Operations costs assuming operations roll out of Alignment Sections in B – C – A order.

		Distance	Average Speed	Run Time	Headway	# Vehicles	Revenue Hours	Daily Cost	Annual Cos
	o San Mateo -								
Veekday	Early Morning	6.3	14	27	20	3	4.5		\$ 276,42
	Peak	6.3	14 14	27 27	20 20	3 3	6 21		\$ 368,56
	Base Peak	6.3 6.3	14	27	20	3	6		\$ 1,289,96 \$ 368,56
	Evening	6.3	14	27	20	3	18		\$ 1,105,68
Veekday		0.5	14	21	20	5		\$ 13,422	\$ 3,409,19
Saturday	Base Evening	6.3 6.3	14 14	27 27	20 20	3 3	33 18		\$ 414,99 \$ 226,36
Saturday		0.3	14	21	20	3		\$ 12,334	\$ 641,35
Sunday	Base	6.3	14	27	20	3	33		\$ 470,85
Sunday T	Evening	6.3	14	27	20	3	18		\$ 256,83 \$ 727,69
Sunday T Annual T								\$ 12,334	\$727,69 \$4,778,24
	rard - 2011								
veekday	Early Morning	2.2	14	9 9	20	1	1.5 2		\$ 52,54
	Peak Base	2.2 2.2	14 14	9	20 20	1		\$276 \$965	\$ 70,06 \$ 245,21
	Base Peak	2.2	14	9	20	1		\$	\$ 245,21 \$ 70,06
	Evening	2.2	14	9	20	1		\$ 828	\$ 210,18
Veekday	•			0	20			\$ 2,551	\$ 648,07
Saturday	Base	2.2	14	9	20	1	11	\$ 1,517	\$ 78,88
aturday	Evening Total	2.2	14	9	20	1	6	\$828 \$2,345	\$ 43,03 \$ 121,9 1
Sunday	Base	2.2	14	9	20	1	11		\$ 89,50
Sunday T	Evening otal	2.2	14	9	20	1	6	\$780 \$2,297	\$ 46,02 \$ 135,52
Annual T		^							\$ 905,51
	n Mateo - 2020 Early Morning	3.8	14	16	20	2	3	\$ 540	\$ 137,12
	Peak	3.8	14	16	20	2	4	\$ 720	\$ 182,83
	Base	3.8	14	16	20	2	14	\$ 2,519	\$ 639,90
	Peak	3.8	14	16	20	2	4	\$ 720	\$ 182,83
Veekday	Evening Total	3.8	14	16	20	2	12	\$2,159 \$6,658	\$ 548,48 \$ 1,691,1 7
Saturday	Base	3.8	14	16	20	2	22	\$ 3,959	\$ 205,86
Saturday	Evening Total	3.8	14	16	20	2	12	\$2,159 \$6,118	\$ 112,28 \$ 318,15
								. ,	
Sunday	Base Evening	3.8 3.8	14 14	16 16	20 20	2 2	22 12		\$ 233,57 \$ 127,40
Sunday T								\$ 6,118	\$ 360,98
Annual T	otal								\$ 2,370,30
Veekdav	Early Morning	Hours of O 5:30:00 AM	peration 7:00:00 AM	1.5					
- Servay	Peak	7:00:00 AM	9:00:00 AM	1.5					
	Base	9:00:00 AM	4:00:00 PM	7					
	Peak	4:00:00 PM	6:00:00 PM	2					
	Evening	6:00:00 PM	12:00:00 AM	6					
aturday	Base	7:00:00 AM	6:00:00 PM	11					
,	Evening	6:00:00 PM	12:00:00 AM	6					
Sunday	Base	7:00:00 AM	6:00:00 PM	11					
	Evening	6:00:00 PM	12:00:00 AM	6					

D. Ridership

Table 8. 2011 Boarding Projection Based on Current Boardings

Anticipated Route 66 Ridership in 2011 (2007 ridership was 6,500)	8,000
RT 66 riders not served by streetcar corridors*****	25%
RT 66 riders served by streetcar corridors*****	75%
RT 66 riders not served by streetcar corridors*****	2,000
RT 66 riders served by streetcar corridors*****	6,000
4th & Girard Ridership Potential	50%
Girard to San Mateo Potential	30%
Atrisco to 4th Street Potential	20%
4th & Girard Ridership Potential	3,000
Girard to San Mateo Potential	1,800
Atrisco to 4th Street Potential	1,200

*****Based on anticipated ABQ Ride boarding and alighting from RT66 for 2011

Table 9. Ridership - Alignment Section A, Atrisco to 4th

1. Induction calculations	
daily average boarding rate per DU*	0.65
daily average boarding rate per sf of commercial*	0.002

2. Land Use Projections

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Future DU	0	0	36	71	107	142	178	212	245	279	313	347	379	411	443	475	507	538	568	598	629	659
Future Commercial	0	0	26,739	53,478	80,217	106,955	133,694	151,724	169,755	187,785	205,815	223,845	244,647	265,449	286,250	307,052	327,854	349,336	370,817	392,299	413,780	435,262

3. Induced Ridership Projections

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	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Ridership from 66	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200
Induced average daily boardings from all DU	0	0	23	46	69	92	115	138	160	182	204	226	247	267	288	309	330	350	369	389	409	428
Induced average daily boardings from all Commercial	0	0	53	107	160	214	267	303	340	376	412	448	489	531	573	614	656	699	742	785	828	871
Total avarage weekday boardings	1200	1200	1277	1353	1430	1506	1583	1641	1699	1757	1815	1873	1936	1998	2061	2123	2186	2248	2311	2374	2436	2499
Total average weekend day boardings	360	360	383	406	429	452	475	492		527	545	562	581	599	618	637		674	693	712	731	750
Estimated average annual boardings	344,760	344,760	366,759	388,759	410,758	432,757	454,757	471,451	488,145	504,839	521,532	538,226	556,164	574,103	592,041	609,979	627,917	645,922	663,928	681,934	699,940	717,945

MODERATE STREETCAR LINE CONSTRUCTION & REDEVELOPMENT

1. Induction	calculations
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daily average boarding rate per DU*	0.65
daily average boarding rate per sf of commercial*	0.002

2. Land Use Projections

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Future DU	0	0	18	36	53	71	89	106	123	140	157	174	190	206	222	238	254	269	284	299	314	330
Future Commercial	0	0	13,369	26,739	40,108	53,478	66,847	75,862	84,877	93,892	102,907	111,923	122,323	132,724	143,125	153,526	163,927	174,668	185,409	196,149	206,890	217,631

3. Induced Ridership Projections

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Ridership from 66	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200
Induced average daily boardings from all DU	0	0	12	23	35	46	58	69	80	91	102	113	123	134	144	155	165	175	185	194	204	214
Induced average daily boardings from all Commercial	0	0	27	53	80	107	134	152	170	188	206	224	245	265	286	307	328	349	371	392	414	435
Total average weekday boardings	1200	1200	1238	1277	1315	1353	1391	1420	1450	1479	1508	1537	1568	1599	1630	1662	1693	1724	1755	1787	1818	1849
Total avearge weekend day boardings	360	360	371	383	394	406	417	426		444			470	480	489	498	508	517	527	536	545	555
Estimated average annual boardings	344,760	344,760	355,760	366,759	377,759	388,759	399,758	408,105	416,452	424,799	433,146	441,493	450,462	459,431	468,400	477,369	486,338	495,341	504,344	513,347	522,350	531,353

CONSERVATIVE STREETCAR LINE CONSTRUCTION & REDEVELOPMENT

1. Induction calculations

daily average boarding rate per DU*	0.65
daily average boarding rate per sf of commercial*	0.002

2. Land Use Projections

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Future DU	0	0	12	24	36	47	59	71	82	93	104	116	126	137	148	158	169	179	189	199	210	220
Future Commercial	0	0	8,913	17,826	26,739	35,652	44,565	50,575	56,585	62,595	68,605	74,615	81,549	88,483	95,417	102,351	109,285	116,445	123,606	130,766	137,927	145,087

3. Induced Ridership Projections

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Ridership from 66	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200
Induced average daily boardings from all DU	0	0	8	15	23	31	38	46	53	61	68	75	82	89	96	103	110	117	123	130	136	143
Induced average daily boardings from all Commercial	0	0	18	36	53	71	89	101	113	125	137	149	163	177	191	205	219	233	247	262	276	290
Total average weekday boardings	1200	1200	1226	1251	1277	1302	1328	1347	1366	1386	1405	1424	1445	1466	1487	1508	1529	1549	1570	1591	1612	1633
Total avarage weekend day boardings	360	360	368	375	383	391		404	410	416	422	427	434	440	446	452	459	465	471	477	484	490
Estimated average annual boardings	344,760	344,760	352,093	359,426	366,759	374,092	381,426	386,990	392,555	398,120	403,684	409,249	415,228	421,208	427,187	433,166	439,146	445,147	451,149	457,151	463,153	469,155

Table 10. Ridership - Alignment Section B, 4th to Girard

A CODECCIVE OTDEETCAD LINE CONCTDUCTION & DEDEVELODMENT																						
AGGRESSIVE STREETGAR LINE CONSTRUCTION & REDEVELOPMENT																						
1. Induction calculations																						
daily average boarding rate per DU*	0.65	se	egement captu	re																		
daily average boarding rate per sf of commercial*	0.002		5																			
2. Land Use Projections																						
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Future DU Future Commercial	0	0	97 62 810	195 125.620	292 188,430	389 251,240	486 314.050	579 356,403	672 398.756	765	858 483.463	951 525.816	1039 574,680	1126 623,544	1214	1302	1390 770,135	1473 820.596	1556 871.056	1639 921,517	1722	1805 1,022,438
Future Commercial	0	U	62,610	125,620	100,430	251,240	314,050	300,403	396,750	441,110	463,403	525,610	574,060	023,344	672,408	721,271	770,135	820,590	871,000	921,517	971,977	1,022,430
3. Induced Ridership Projections																						
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Ridership from 66	3.000	3,000	3,000	3.000	3,000	3,000	3.000	3.000	3,000	3.000	3,000	3,000	3,000	3,000	3.000	3,000	3.000	3.000	3.000	3.000	3.000	3.000
Induced average daily boardings from all DU	0	0	63	126	190	253	316	377	437	497	558	618	675	732	789	846	903	957	1011	1065	1119	1173
Induced average daily boardings from all Commercial	0	0	126	251	377	502	628	713	798	882	967	1052	1149	1247	1345	1443	1540	1641	1742	1843	1944	2045
Total average weekday boardings Total average weekend day boardings	3000 900	3000 900	3189 957	3378 1013	3567 1070	3755	3944 1183	4089	4234	4380 1314	4525 1357	4670 1401	4824 1447	4979 1494	5134 1540	5289 1587	5444 1633	5599 1680	5753 1726	5908 1772	6063 1819	6218 1865
Estimated average annual boardings	861.900	861.900	916,161									1.341.610					1.563.948		1.652.950			1.786.453
Eolimatod aronago annaar oodranigo	001,000	001,000	010,101	010,122	,021,000	,010,011	100,200	1,114,000	1,210,001	1,200,240	1,200,020	1,011,010	1,000,011	1,100,010	1,110,010	1,010,401	1,000,010	1,000,110	1,002,000	1,001,401	1,7 11,002	1,100,100
MODERATE STREETCAR LINE CONSTRUCTION & REDEVELOPMENT																						
1. Induction calculations																						
daily average boarding rate per DU*	0.65																					
daily average boarding rate per DO daily average boarding rate per sf of commercial*	0.002																					
	0.001																					
2. Land Use Projections																						
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Future DU	0	0	49	97	146	195	243	290	336	383	429	475	519	563	607	651	695	736	778	819	861	902
Future Commercial	0	0	31,405	62,810	94,215	125,620	157,025	178,202	199,378	220,555	241,731	262,908	287,340	311,772	336,204	360,636	385,068	410,298	435,528	460,758	485,989	511,219
3. Induced Ridership Projections																						
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
Induced average daily boardings from all DU Induced average daily boardings from all Commercial	0	0	32 63	63 126	95 188	126 251	158 314	188 356	218 399	249 441	279 483	309 526	338 575	366 624	395 672	423 721	452	479 821	506 871	533 922	560 972	587 1022
Total average weekday boardings	3000	3000	3094	3189	3283	3378	3472	3545	3617	3690	3762	3835	3912	3990	4067	4144	4222	4299	4377	4454	4532	4609
Total avearge weekend day boardings	900	900	928	957	985	1013	1042	1063	1085	1107	1129	1150	1174	1197	1220	1243	1267	1290	1313	1336	1359	1383
Estimated average annual boardings	861,900	861,900	889,030	916,161	943,291	970,422	997,552 1	1,018,393 1	1,039,233	1,060,074	1,080,914	1,101,755	1,123,989	1,146,223	1,168,456	1,190,690	1,212,924	1,235,175	1,257,425	1,279,676	1,301,926	1,324,177
CONSERVATIVE STREETCAR LINE CONSTRUCTION & REDEVELOPMENT																						
1. Induction calculations																						
daily average boarding rate per DU*	0.65																					
daily average boarding rate per sf of commercial*	0.002																					
O Lond Has Deviations																						
2. Land Use Projections	0045		001/	0040	00.40	004.4	0015	0010	0017	0045									000-			0000
5	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Future DU Future Commercial	0	0	32 20.937	65 41.873	97 62.810	130 83,747	162	193 118,801	224 132,919	255 147,037	286 161.154	317	346 191,560	375 207.848	405 224,136	434 240,424	463 256.712	491 273.532	519 290,352	546 307.172	574 323,992	602 340,813
	0	0	20,937	41,073	02,010	00,747	104,003	110,001	132,919	147,037	101,134	113,212	131,300	201,040	224,130	240,424	200,712	210,002	200,002	301,172	323,332	340,013
3. Induced Ridership Projections																						
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
	3.000	3.000	3.000	3.000	3.000	3,000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000
Induced average daily boardings from all DU	0	0	21	42	63	84	105	126	146	166	186	206	225	244	263	282	301	319	337	355	373	391
Induced average daily boardings from all Commercial	0	0	42	84	126	167	209	238	266	294	322	351	383	416	448	481	513	547	581	614	648	682
Total average weekday boardings	3000	3000	3063	3126	3189	3252	3315	3363	3411	3460	3508	3557	3608	3660	3711	3763	3815	3866	3918	3969	4021	4073
Total avearge weekend day boardings Estimated average annual boardings	900 861,900	900 861,900	919 879,987	938 898,074	957 916,161	976 934,248	994 952,335	1009 966,229	1023 980,122	1038 994,016	1052 1,007,910	1067	1082 1,036,626	1098 1,051,448	1113 1,066,271	1129	1144 1,095,916	1160	1175 1,125,583	1191 1,140,417	1206	1222 1,170,084
Estimated average dilitudi bodrulitys	001,300	001,900	019,901	030,074	010,101	004,240	002,000	000,229	000,122	394,010	1,007,910	1,021,003	1,030,020	1,031,440	1,000,271	1,001,094	1,090,910	1,110,750	1,120,003	1,140,417	1,100,201	1,170,004

Table 11. Ridership - Alignment Section B, Girard to San Mateo

AGGRESSIVE STREETCAR LINE CONSTRUCTION & REDEVELOPMENT																					
1. Induction calculations																					
aily average boarding rate per DU*	0.65	3																			
laily average boarding rate per bo	0.002																				
2. Land Use Projections																					
	2009	2010	2011	2012	2013 2	014 2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
uture DU	0	0 0	58	117		234 292	348	404	460	516	572	624	677	730	783	835	885	935	985	1035	1085
uture Commercial	0	0 0	30,093	60,187	90,280 120,	374 150,467	170,759	191,051	211,344	231,636	251,928	275,339	298,751	322,162	345,574	368,985	393,162	417,338	441,515	465,692	489,868
3. Induced Ridership Projections																					
	2009		2011	2012		014 2015			2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
idership from 66	1,800	1,800	1,800	1,800	1,800 1,8				1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800
duced average daily boardings from all DU	0	0 0	38	76		152 190	226		299	335	372	406	440	474	509	543	575	608	640	673	705
duced average daily boardings from all Commercial	0	0 0	60 1898	120		241 301 193 2291			423 2522	463	504 2675	551 2757	598 2838	644 2919	691 3000	738 3081	786 3162	835 3243	883 3323	931 3404	980 3485
otal average weekday boardings otal avearge weekend day boardings	1800	1800 540	569	1996 599		658 687	2368	733	2522	2599 780	803	827	2030	2919	900	924	949	973	3323 997	1021	1045
stimated average annual boardings	517.140		000		01,783 629,9		110	702,384	100		768,643	791.948	815.253	838.558	861.863	924 885.168	949	973	997	978,020	1.001.233
sumated average annual boardings	517,140	517,140	343,334	575,508 0	01,703 029,5	000,211	000,290	702,304	724,470	740,550	700,043	751,540	015,255	030,330	001,003	005,100	900,301	531,354	554,007	570,020	1,001,233
IODERATE STREETCAR LINE CONSTRUCTION & REDEVELOPMENT																					
I. Induction calculations																					
aily average boarding rate per DU*	0.65	5																			
aily average boarding rate per sf of commercial*	0.002																				
2. Land Use Projections																					
	2009	2010	2011	2012	2013 2	014 2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Future DU	0	0	29	58		117 146			230	258	286	312	339	365	391	418	443	468	493	518	542
Future Commercial	0	0 0	15,047	30,093	45,140 60.	187 75,233	85,380	95,526	105,672	115,818	125,964	137,670	149,375	161,081	172,787	184,493	196,581	208,669	220,758	232,846	244,934
3. Induced Ridership Projections																					
·····	2009	2010	2011	2012	2013 2	014 2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Ridership from 66	1.800		1.800	1.800		00 1.800			1,800	1.800	1,800	1.800	1,800	1,800	1,800	1,800	1,800	1,800	1.800	1,800	1,800
nduced average daily boardings from all DU	1,000	1,800	1,000	1,000	57	76 95			1,800	1,800	1,800	203	220	237	254	272	288	304	320	336	353
nduced average daily boardings from all Do	0	0	30	60		120 150			211	232	252	205	299	322	346	369	393	417	442	466	490
Fotal average weekday boardings	1800	1800	1849	1898		996 2046			2161	2199	2238	2278	2319	2359	2400	2440	2481	2521	2562	2602	2642
Fotal avearge weekend day boardings	540	540	555	569		599 614	625	637	648	660	671	683	696	708	720	732	744	756	769	781	793
stimated average annual boardings	517,140		531.247		59,461 573,5			609,762	620.805		642.891	654.544	666,196	677.849	689.501	701,154	712,761	724,367	735.974	747,580	759,187
	,	. ,		0.0,00.0										0.1,010			,			,	
CONSERVATIVE STREETCAR LINE CONSTRUCTION & REDEVELOPMENT																					
1. Induction calculations		_																			
laily average boarding rate per DU*	0.65	5																			
aily average boarding rate per sf of commercial*	0.002	2																			
2. Land Use Projections																					
	2009	2010	2011	2012	2013 2	014 2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
uture DU	0	0 0	19	39	58	78 97	/ 116	135	153	172	191	208	226	243	261	278	295	312	328	345	362
uture Commercial	0	0	10,031	20,062	30,093 40,	125 50,156	56,920	63,684	70,448	77,212	83,976	91,780	99,584	107,387	115,191	122,995	131,054	139,113	147,172	155,231	163,289
3. Induced Ridership Projections																					
	2009	2010	2011	2012	2013 2	014 2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
idership from 66	1.800	1.800	1.800		1,800 1,8	====			1.800	1.800	1,800	1.800	1,800	1.800	1.800	1.800	1,800	1.800	1.800	1,800	1.800
ndurand automate daily beautings from all DU	.,500	.,	.,	.,	,		.,	.,	.,		404	405	4.47	.,	.,	.,	.,	.,	.,250	.,	.,

Ridership from 66	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800
Induced average daily boardings from all DU	0	0	13	25	38	51	63	75	88	100	112	124	135	147	158	170	181	192	203	213	224	235
Induced average daily boardings from all Commercial	0	0	20	40	60	80	100	114	127	141	154	168	184	199	215	230	246	262	278	294	310	327
Total average weekday boardings	1800	1800	1833	1865	1898	1931	1964	1989	2015	2041	2066	2092	2119	2146	2173	2200	2227	2254	2281	2308	2335	2362
Total avearge weekend day boardings	540	540	550		569	579	589	597	604	612	620	628	636	644	652	660	668	676	684	692	700	708
Estimated average annual boardings	517,140	517,140	526,545	535,949	545,354	554,759	564,164	571,526	578,888	586,250	593,612	600,974	608,743	616,511	624,279	632,048	639,816	647,554	655,291	663,029	670,767	678,504

Source: Fehr & Peers

- - -----

E. Initial Cost and Ridership Analysis

[Insert memo here.]

F. Land Use Benefits

Table 12. Nationwide Demand for Urban Residential Types

Unit Type	Preference
Attached	
Apartments	14%
Condos, Coops	9%
Townhouses	15%
Total	38%
Detached	
Small Lot (< 7,000 sf)	37%
Large Lot (> 7,000 sf)	25%
Total	62%
Grand Total	100%

Source: The Metropolitan Institute at Virginia Tech

Table 13. Albuquerque Demand for Urban Residential Types

Regional Population	251,730
Growth , 2010 - 2030	
Estimated Demand	
Condo	5%
Townhome	10%
Walkable Neighborhood	38%
(between 33 and 45 percent)	
Market Size	
Condo	12,587
Townhome	25,173
Walkable Neighborhood	95,657

Source: Albuquerque Downtown Perception Study, The Metropolitan Institute at Virginia Tech

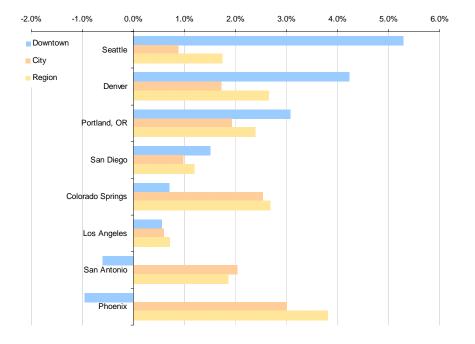


Table 14. Population Growth in Downtowns, Cities, and Regions, 1990 – 2000

Source: Brookings Institution, U.S. Census Bureau

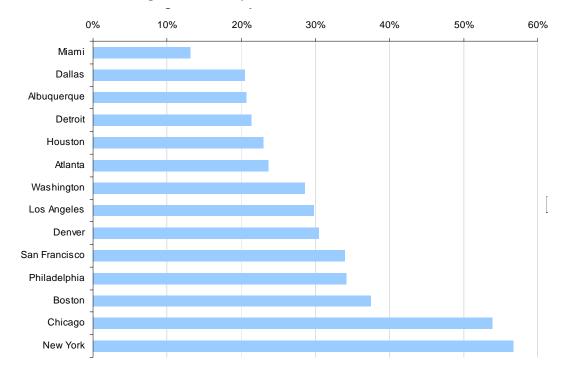
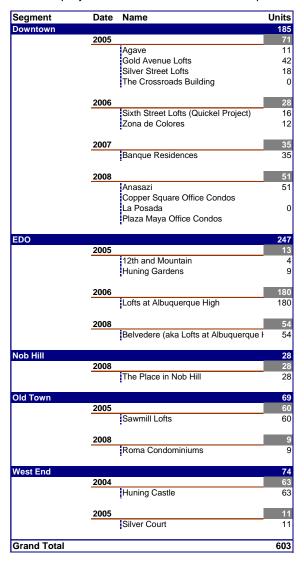


Table 15. Percent of Regional Office Space in Downtown

Source: Metropolitan Institute at Virginia Tech

Table 16. Residential Construction in Central Avenue Corridor, 2004 through 2009

Includes projects under construction as of April 2008.



Source: Leland Consulting Group

Table 17. 2004 MRCOG Regional Population and Employment Forecast

(Basic Employment not shown)

County	Population	Service Employment	Retail Employment
BERNALILLO	602,413	182,186	66,571
SANDOVAL	102,462	14,215	4,629
SANTA FE	9,786	421	375
TORRANCE	17,695	2,381	648
VALENCIA	69,754	8,988	3,853
Grand Total	802,110	208,191	76,076

Source: MRCOG

Table 18. 2030 MRCOG Regional Population and Employment Forecast

County	Population	Service Employment	Retail Employment
BERNALILLO	759,000	264,564	80,162
SANDOVAL	197,182	33,672	9,779
SANTA FE	16,889	2,004	1,037
TORRANCE	27,479	4,028	831
VALENCIA	128,922	19,546	5,564
Grand Total	1,129,472	323,814	97,373

Source: MRCOG

Table 19. 2004 to 2010 Adjustment

	Population	Service Employment	Retail Employment
2004 (MRCOG)	32,489	39,245	7,015
Compound Annual Growth Rate	0.81%	0.25%	-0.53%
Growth Rate Based on	Streetcar Scenario	Base Case	Base Case
2010 (LCG Estimate)	34,097	39,831	6,794

Source: MRCOG, Leland Consulting Group

A 2010 estimate was used as a common starting point for both the Base Case and Streetcar Scenario, which then diverge between 2010 and 2030. The 2004 – 2010 population growth rate was based on the Streetcar Scenario because significantly greater population growth occurred in that period than projected in the Base Case. Conversely, actual 2004 – 2010 service and retail employment growth in the corridor appears to be relatively close to Base Case projections, thus the Base Case was used to establish the 2010 employment estimate.

Table 20. 2010 – 2030 Growth Scenarios Overview

Streetcar Scenario

	Population	Service Employment	Retail Employment
Central Ave. Corridor			
2004	32,489	39,245	7,015
2010	34,097	39,831	6,794
2030	40,591	45,860	8,764
Growth 2010 - 2030	6,495	6,029	1,970
Region			
2004	802,110	208,191	76,076
2010	877,742	248,452	83,492
2030	1,129,472	323,814	97,373
Growth 2010 - 2030	251,730	75,362	13,881
Corridor Capture Rate			
2004	4.1%	18.9%	9.2%
2010	3.9%	16.0%	8.1%
2030	3.6%	14.2%	9.2%
Growth 2010 - 2030	2.6%	8.0%	14.2%
Annual Growth Rates			
Central Ave. Corridor	0.9%	0.7%	0.9%

Source: Leland Consulting Group, MRCOG

Base Case

	Population	Service Employment	Retail Employment
Central Ave. Corridor			
2004	32,489	39,245	7,015
2010	34,097	39,831	6,794
2030	35,663	40,929	6,381
Growth 2010 - 2030	1,566	1,098	-413
Region			
2004	802,110	208,191	76,076
2010	877,742	248,452	83,492
2030	1,129,472	323,814	97,373
Growth 2010 - 2030	251,730	75,362	13,881
Corridor Capture Rate			
2004	4.1%	18.9%	9.2%
2010	3.9%	16.0%	8.1%
2030	3.2%	12.6%	6.6%
Growth 2010 - 2030	0.6%	1.5%	-3.0%
Annual Growth Rates			
Central Ave. Corridor	0.2%	0.1%	-0.3%

	2004	2010	2015	2020	2025	2030
Base Case						
Population	32,489	34,097	34,519	34,922	35,302	35,663
Households	17,754	18,632	18,863	19,083	19,291	19,488
Total Employment	39,245	46,625	46,835	46,977	47,140	47,309
Service Employment	7,015	39,831	40,168	40,396	40,658	40,929
Retail Employment	46,260	6,794	6,667	6,581	6,483	6,381
Streetcar Scenario						
Population	32,489	34,097	35,847	37,518	39,097	40,591
Households	17,754	18,632	19,589	20,502	21,365	22,181
Total Employment	46,260	46,625	49,082	50,739	52,650	54,624
Service Employment	39,245	39,831	41,683	42,932	44,372	45,860
Retail Employment	7,015	6,794	7,399	7,807	8,278	8,764

Table 21. Population and Employment Growth in the Central Corridor by Five Year Increment

Source: Leland Consulting Group

Table 22. Built Units Conversion Rates

	Population	Service Employment	Retail Employment
Household Size (persons/HH) ¹	1.83	-	-
Area (sf/employee)	1,000	225	300
Value (\$/sf)	\$175	\$225	\$225

Source: Leland Consulting Group 1. ESRI Business Analyst

	Population	Service Employment	Retail Employment
Growth, 2010 - 2030	6,495	6,029	1,970
Dwelling Units (HHs)	3,549	-	-
Area (sf)			
By Use	3,549,009	1,356,507	591,060
Total		5,496,576	
Investment Value			
By Use	\$621,076,570	\$305,214,168	\$132,988,502
Total		\$1,059,279,241	

Table 23. Streetcar Scenario Built Area and Development Value

Section	Market Ar	ea																					
			2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
A	West Side			16	33	49	66	82	98	113	129	145	160	175	190	205	219	234	248	262	276	290	304
A	Old Town			19	38	57	77	96	114	132	150	169	187	204	221	239	256	273	290	306	322	339	355
В	Downtown			33	66	98	131	164	195	227	258	289	321	350	380	409	439	468	496	524	552	580	608
В	EDO			32	65	97	129	161	192	223	254	284	315	344	373	402	432	461	488	516	543	571	598
В	UNM			32	65	97	129	161	192	223	254	284	315	344	373	402	432	461	488	516	543	571	598
С	Nob Hill			33	67	100	133	167	199	230	262	294	326	356	386	416	446	476	505	533	562	590	619
С	San Mateo			25	50	75	101	126	150	174	198	222	246	268	291	314	336	359	381	402	424	445	466
Total	Total			191	383	574	765	957	1,139	1,322	1,504	1,687	1,870	2,042	2,215	2,387	2,560	2,733	2,896	3,059	3,222	3,386	3,549
Section																							
A - West				36	71	107	142	178	212	245	279	313	347	379	411	443	475	507	538	568	598	629	659
B - Central				97	195	292	389	486	579	672	765	858	951	1,039	1,126	1,214	1,302	1,390	1,473	1,556	1,639	1,722	1,805
C - East				58	117	175	234	292	348	404	460	516	572	624	677	730	783	835	885	935	985	1,035	1,085
Total				191	383	574	765	957	1,139	1,322	1,504	1,687	1,870	2,042	2,215	2,387	2,560	2,733	2,896	3,059	3,222	3,386	3,549

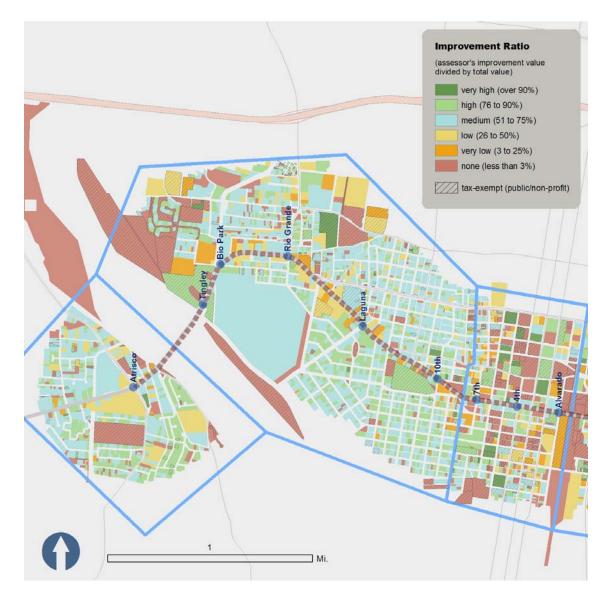
Table 24. Cumulative Household Demand by Alignment Section

Source: Leland Consulting Group

Table 25. Cumulative Employment Area (square feet) by Alignment Section

Section	Market Are	1																				
		2,01	0 20	1 2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
A	West Side		14,8	21 29,643	44,464	59,285	74,107	84,101	94,095	104,089	114,083	124,077	135,608	147,138	158,669	170,199	181,729	193,637	205,544	217,451	229,358	241,266
A	Old Town		11,9	17 23,838	35,752	47,670	59,587	67,624	75,660	83,696	91,732	99,768	109,039	118,310	127,582	136,853	146,125	155,699	165,273	174,847	184,422	193,996
В	Downtown		23,5	84 47,168	70,752	94,336	117,920	133,823	149,726	165,629	181,532	197,435	215,782	234,130	252,477	270,825	289,172	308,119	327,066	346,013	364,960	383,907
В	EDO		16,1	61 32,321	48,482	64,643	80,803	91,700	102,598	113,495	124,392	135,289	147,862	160,434	173,006	185,579	198,151	211,134	224,118	237,101	250,084	263,067
В	UNM		23,0	65 46,131	69,196	92,261	115,327	130,880	146,433	161,986	177,539	193,092	211,036	228,980	246,924	264,868	282,812	301,342	319,873	338,403	356,933	375,463
С	Nob Hill		14,7	11 29,422	44,132	58,843	73,554	83,474	93,393	103,313	113,233	123,152	134,597	146,041	157,486	168,930	180,374	192,193	204,011	215,830	227,648	239,467
С	San Mateo		15,3	83 30,768	46,148	61,530	76,913	87,285	97,658	108,031	118,403	128,776	140,743	152,710	164,677	176,644	188,611	200,969	213,327	225,685	238,043	250,402
Total	Total		119,6	42 239,284	358,927	478,569	598,211	678,887	759,562	840,238	920,913	1,001,589	1,094,666	1,187,743	1,280,820	1,373,897	1,466,975	1,563,093	1,659,212	1,755,330	1,851,449	1,947,567
Section																						
A - West			26,7	39 53,478	80,217	106,955	133,694	151,724	169,755	187,785	205,815	223,845	244,647	265,449	286,250	307,052	327,854	349,336	370,817	392,299	413,780	435,262
B - Central			62,8	10 125,620	188,430	251,240	314,050	356,403	398,756	441,110	483,463	525,816	574,680	623,544	672,408	721,271	770,135	820,596	871,056	921,517	971,977	1,022,438
C - East			30,0	93 60,187	90,280	120,374	150,467	170,759	191,051	211,344	231,636	251,928	275,339	298,751	322,162	345,574	368,985	393,162	417,338	441,515	465,692	489,868
Total			119,6	42 239,284	358,927	478,569	598,211	678,887	759,562	840,238	920,913	1,001,589	1,094,666	1,187,743	1,280,820	1,373,897	1,466,975	1,563,093	1,659,212	1,755,330	1,851,449	1,947,567





40 Improvement Ratio (assessor's improvement value divided by total value) very high (over 90%) high (76 to 90%) medium (51 to 75%) low (26 to 50%) very low (3 to 25%) none (less than 3%) 25 tax-exempt (public/non-profit) 2000 Mi.

Figure 2. Improvement Ratios, Alignment Section B

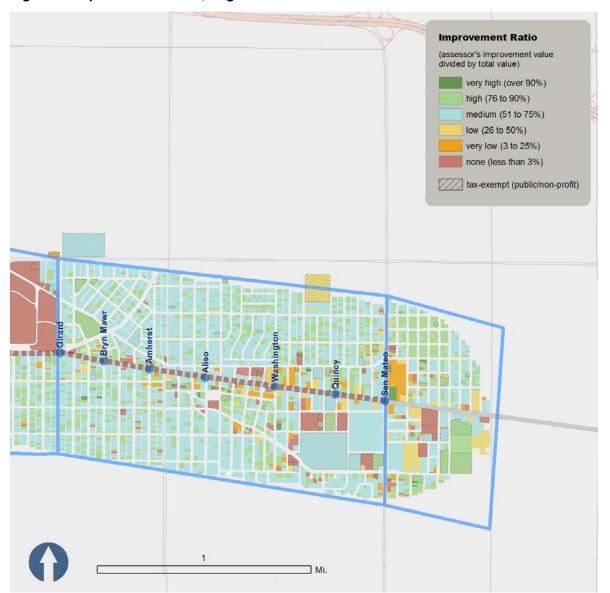


Figure 3. Improvement Ratios, Alignment Section C

G. Funding Analysis

Quarter Cent Cash Flows and Allocations

Table 26. Quarter Cent Revenues

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Total 1/4 Cent Receipts	\$0	\$0	\$39,675,608	\$41,064,254	\$42,501,503	\$43,989,056	\$45,528,672	\$47,122,176	\$48,771,452	\$50,478,453	\$52,245,199	\$54,073,781
Total 10 Year NPV	\$324,703,164											

Source: Leland Consulting Group, City of Albuquerque

Table 27. Quarter Cent Revenue and Expenditure Assumptions

Assumptions	
Inflation	3.0%
Debt Coverage Ratio	1.2
Farebox Recovery Ratio	15%

Table 28. Quarter Cent Revenues and Expenditures - B Alignment Only

Quarter Cent with TIDD													
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Revenue Stream													
Total	8.5%			\$3,372,427	\$3,490,462	\$3,612,628	\$3,739,070	\$3,869,937	\$4,005,385	\$4,145,573	\$4,290,669	\$4,440,842	\$4,596,271
To Capital	89.5%			\$3,018,322	\$3,123,963	\$3,233,302	\$3,346,467	\$3,463,594	\$3,584,820	\$3,710,288	\$3,840,148	\$3,974,554	\$4,113,663
To Operating (1)	10.5%			\$354,105	\$366,498	\$379,326	\$392,602	\$406,343	\$420,565	\$435,285	\$450,520	\$466,288	\$482,608
Capital													
Available for Debt Service				\$2,624,628	\$2,716,490	\$2,811,567	\$2,909,972	\$3,011,821	\$3,117,234	\$3,226,338	\$3,339,259	\$3,456,133	\$3,577,098
Bond Potential		\$23,618,393											
Debt Reserve to Operating (2)			\$393,694	\$407,473	\$421,735	\$436,496	\$451,773	\$467,585	\$483,951	\$500,889	\$518,420	\$536,565
Operating	·												
Expenses		\$1,219,400	\$1,255,982	\$1,293,661	\$1,332,471	\$1,372,445	\$1,413,619	\$1,456,027	\$1,499,708	\$1,544,699	\$1,591,040	\$1,638,772	\$1,687,935
Income													
(1) Revenue Stream				\$354,105	\$366,498	\$379,326	\$392,602	\$406.343	\$420,565	\$435,285	\$450.520	\$466,288	\$482,608
(2) Debt Reserve				\$747,799	\$773,972	\$801,061	\$829,098	\$858,116	\$888,151	\$919,236	\$951,409	\$984,708	\$1,019,173
(3) Farebox	15%			\$194,049	\$199,871	\$205,867	\$212,043	\$218,404	\$224,956	\$231,705	\$238,656	\$245,816	\$253,190
Operating Fund Balance				\$2,292	\$10,161	\$23,970	\$44.094	\$70,931	\$104,895	\$146,421	\$195,966	\$254,007	\$321,044
2020 Balance		\$321,044											
Quarter Cent, No TIDD													
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Revenue Stream													
Total	17.5%			\$6,943,231	\$7,186,244	\$7,437,763	\$7,698,085	\$7,967,518	\$8,246,381	\$8,535,004	\$8,833,729	\$9,142,910	\$9,462,912
To Capital	98.5%			\$6,839,083	\$7.078.451	\$7.326.197	\$7,582,614	\$7.848.005	\$8,122,685	\$8,406,979	\$8,701,223	\$9,005,766	\$9,320,968
To Operating (1)	1.5%			\$104,148	\$107,794	\$111,566	\$115,471	\$119,513	\$123,696	\$128,025	\$132,506	\$137,144	\$141,944
Capital	1.070			\$104,140	\$101,104	\$111,000	Q110,411	\$110,010	\$125,000	\$120,020	\$102,000	¢157,144	Q141,044
Available for Debt Service				\$5,947,029	\$6,155,175	\$6,370,606	\$6,593,577	\$6,824,352	\$7,063,204	\$7,310,417	\$7,566,281	\$7,831,101	\$8,105,190
Bond Potential		\$53.515.879		\$0,011,020	\$5,100,110	\$5,575,555	\$6,000,011	\$5,521,552	\$1,000,201	•1,010,111	\$1,000,201	\$7,001,101	\$5,100,100
Debt Reserve to Operating (2	9	\$00,010,010		\$892,054	\$923,276	\$955,591	\$989,037	\$1,023,653	\$1,059,481	\$1,096,562	\$1,134,942	\$1,174,665	\$1,215,778
Operating (2	7			\$002,004	\$525,270	\$000,001	0000,001	\$1,020,000	\$1,000,401	\$1,000,002	01,104,042	\$1,114,000	\$1,210,770
Expenses		\$1,219,400	\$1,255,982	\$1,293,661	\$1,332,471	\$1,372,445	\$1,413,619	\$1,456,027	\$1,499,708	\$1,544,699	\$1,591,040	\$1,638,772	\$1,687,935
Income		\$1,210,700		.,	1,002,171	1,012,110	21,110,010	21,100,021	51,100,100	51,011,000	51,001,010		\$1,001,000
(1) Revenue Stream				\$104,148	\$107,794	\$111.566	\$115,471	\$119,513	\$123.696	\$128.025	\$132,506	\$137,144	\$141.944
(2) Debt Reserve				\$996,203	\$1.031.070	\$1.067.157	\$1,104,508	\$1,143,166	\$1,183,176	\$1,224,588	\$1,267,448	\$1,311,809	\$1,357,722
							\$212,043	\$218,404	\$224,956	\$231,705	\$238,656	\$245,816	\$253,190
(3) Farebox	15%			\$194.049	3199.8/1	azus.on/	JZ Z. 04.1	3Z 10.4U4					
(3) Farebox Operating Fund Balance	15%			\$194,049 \$739	\$199,871 \$7,002	\$205,867 \$19,147	\$212,043	\$210,404 \$62,605	\$94,725	\$134,343	\$181,913	\$237,910	\$302,831

Table 29. Quarter Cent Revenues and Expenditures – Recommended Alignment (B and C)

Quarter Cent with TIDD													
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Revenue Stream													
Total	12.0%			\$4,761,073	\$4,927,710	\$5,100,180	\$5.278.687	\$5,463,441	\$5.654.661	\$5.852.574	\$6.057.414	\$6,269,424	\$6,488,854
To Capital	82.0%			\$3,904,080	\$4,040,723	\$4,182,148	\$4,328,523	\$4,480,021	\$4,636,822	\$4,799,111	\$4,967,080	\$5,140,928	\$5,320,860
To Operating (1)	18.0%			\$856,993	\$886,988	\$918,032	\$950,164	\$983,419	\$1.017.839	\$1,053,463	\$1,090,335	\$1,128,496	\$1,167,994
Capital				,,,,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	\$555,555	\$5.10,002	\$555,151	\$555,115	\$ 1,5 11,555	• 1,000,100	\$ 1,000,000	¢ 1, 120, 100	\$1,101,001
Available for Debt Service				\$3.394.852	\$3,513,672	\$3,636,650	\$3,763,933	\$3.895.671	\$4.032.019	\$4,173,140	\$4,319,200	\$4,470,372	\$4,626,835
Bond Potential		\$30,549,456										• • • • • • • • •	
Debt Reserve to Operating (2)		,		\$509,228	\$527,051	\$545,498	\$564,590	\$584,351	\$604,803	\$625,971	\$647,880	\$670,556	\$694,025
Operating													
Expenses		\$2,438,800	\$2,511,964	\$2,587,323	\$2,664,943	\$2,744,891	\$2,827,238	\$2,912,055	\$2,999,416	\$3,089,399	\$3,182,081	\$3,277,543	\$3,375,870
Income		+=,,					+=,===,===	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				•••,=•••,••••	
(1) Revenue Stream				\$856,993	\$886,988	\$918,032	\$950,164	\$983,419	\$1.017.839	\$1,053,463	\$1,090,335	\$1,128,496	\$1,167,994
(2) Debt Reserve				\$1,366,221	\$1,414,039	\$1,463,530	\$1,514,754	\$1,567,770	\$1,622,642	\$1,679,434	\$1,738,215	\$1,799,052	\$1,862,019
(3) Farebox	15%			\$388,098	\$399,741	\$411,734	\$424,086	\$436,808	\$449,912	\$463,410	\$477.312	\$491,631	\$506,380
Operating Fund Balance				\$23,990	\$59,815	\$108,220	\$169,985	\$245,928	\$336,905	\$443,814	\$567,594	\$709,231	\$869,754
2020 Balance		\$869,754											
Revenue for Other Projects				\$34,914,535	\$36,136,544	\$37,401,323	\$38,710,369	\$40,065,231	\$41,467,515	\$42,918,878	\$44,421,039	\$45,975,775	\$47,584,927
Quarter Cent, No TIDD													
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Revenue Stream													
Total	28.0%			\$11,109,170	\$11,497,991	\$11.900.421	\$12.316.936	\$12,748,028	\$13,194,209	\$13,656,007	\$14,133,967	\$14,628,656	\$15,140,659
To Capital	100.0%			\$11,109,170	\$11,497,991	\$11,900,421	\$12,316,936	\$12,748,028	\$13,194,209	\$13,656,007	\$14,133,967	\$14,628,656	\$15,140,659
To Operating (1)	0.0%			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Capital													
Available for Debt Service	24.3%			\$9,660,148	\$9,998,253	\$10,348,192	\$10,710,379	\$11,085,242	\$11,473,225	\$11,874,788	\$12,290,406	\$12,720,570	\$13,165,790
Bond Potential		\$86.929.347											
Debt Reserve to Operating (2)				\$1,449,022	\$1,499,738	\$1,552,229	\$1,606,557	\$1,662,786	\$1,720,984	\$1,781,218	\$1,843,561	\$1,908,086	\$1,974,869
Operating													
Expenses		\$1.219.400	\$1.255.982	\$1,293,661	\$1.332.471	\$1.372.445	\$1.413.619	\$1,456,027	\$1,499,708	\$1,544,699	\$1,591,040	\$1.638.772	\$1.687.935
Income		, ,											
(1) Revenue Stream				\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(2) Debt Reserve				\$1,449,022	\$1,499,738	\$1,552,229	\$1,606,557	\$1,662,786	\$1,720,984	\$1,781,218	\$1,843,561	\$1,908,086	\$1,974,869
(3) Farebox	15%			\$194.049	\$199.871	\$205,867	\$212,043	\$218,404	\$224,956	\$231,705	\$238,656	\$245.816	\$253,190
Operating Fund Balance				\$349,410	\$716,547	\$1,102,198	\$1,507,178	\$1,932,341	\$2,378,573	\$2,846,797	\$3,337,973	\$3,853,103	\$4,393,227
2020 Balance		\$4,393,227											

Table 30. Quarter Cent Revenues and Expenditures – Full Alignment

Quarter Cent with TIDD													
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	202
Revenue Stream													
Total	18.5%			\$7,339,987	\$7,596,887	\$7,862,778	\$8,137,975	\$8,422,804	\$8,717,603	\$9,022,719	\$9,338,514	\$9,665,362	\$10,003,649
To Capital	77.5%			\$5,688,490	\$5,887,587	\$6,093,653	\$6,306,931	\$6,527,673	\$6,756,142	\$6,992,607	\$7,237,348	\$7,490,655	\$7,752,828
To Operating (1)	22.5%			\$1,651,497	\$1,709,300	\$1,769,125	\$1,831,044	\$1,895,131	\$1,961,461	\$2,030,112	\$2,101,166	\$2,174,706	\$2,250,82
Capital													
Available for Debt Service				\$4,946,513	\$5,119,641	\$5,298,829	\$5,484,288	\$5,676,238	\$5,874,906	\$6,080,528	\$6,293,346	\$6,513,613	\$6,741,59
Bond Potential		\$44,512,483											
Debt Reserve to Operating (2)				\$741,977	\$767,946	\$794,824	\$822,643	\$851,436	\$881,236	\$912,079	\$944,002	\$977,042	\$1,011,238
Operating													
Expenses		\$4,514,380	\$4,649,811	\$4,789,306	\$4,932,985	\$5,080,974	\$5,233,404	\$5,390,406	\$5,552,118	\$5,718,682	\$5,890,242	\$6,066,949	\$6,248,958
Income													
(1) Revenue Stream				\$1,651,497	\$1,709,300	\$1,769,125	\$1,831,044	\$1,895,131	\$1,961,461	\$2,030,112	\$2,101,166	\$2,174,706	\$2,250,821
(2) Debt Reserve				\$2,393,474	\$2,477,246	\$2,563,949	\$2,653,688	\$2,746,567	\$2,842,696	\$2,942,191	\$3,045,168	\$3,151,748	\$3,262,060
(3) Farebox	15%			\$718,396	\$739,948	\$762,146	\$785,011	\$808,561	\$832,818	\$857,802	\$883,536	\$910,042	\$937,344
Operating Fund Balance				(\$25,939)	(\$32,430)	(\$18,184)	\$18,155	\$78,007	\$162,864	\$274,287	\$413,915	\$583,463	\$784,730
2020 Balance		\$784,730											
Quarter Cent, No TIDD		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	202
		2003	2010										
Revenue Stream	47.0%			\$18,647,536	\$19,300,199	\$19,975,706	\$20,674,856	\$21,398,476	\$22,147,423	\$22,922,582	\$23,724,873	\$24,555,244	\$25,414,677
Total	100.0%			\$18,647,536	\$19,300,199	\$19,975,706	\$20,674,856	\$21,398,476	\$22,147,423	\$22,922,582	\$23,724,873	\$24,555,244	\$25,414,677
To Capital	0.0%			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
To Operating (1)													
Capital				\$16,215,248	\$16,782,782	\$17,370,179	\$17,978,136	\$18,607,370	\$19,258,628	\$19,932,680	\$20,630,324	\$21,352,386	\$22,099,719
Available for Debt Service		\$145,917,119											
Bond Potential				\$2,432,287	\$2,517,417	\$2,605,527	\$2,696,720	\$2,791,106	\$2,888,794	\$2,989,902	\$3,094,549	\$3,202,858	\$3,314,958
Debt Reserve to Operating (2)													
Operating													
Expenses		\$1,219,400	\$1,255,982	\$1,293,661	\$1,332,471	\$1,372,445	\$1,413,619	\$1,456,027	\$1,499,708	\$1,544,699	\$1,591,040	\$1,638,772	\$1,687,935
Income													
(1) Revenue Stream				\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(2) Debt Reserve				\$2,432,287	\$2,517,417	\$2,605,527	\$2,696,720	\$2,791,106	\$2,888,794	\$2,989,902	\$3,094,549	\$3,202,858	\$3,314,958
(3) Farebox	15%			\$194,049	\$199,871	\$205,867	\$212,043	\$218,404	\$224,956	\$231,705	\$238,656	\$245,816	\$253,190
Operating Fund Balance		ALC 000 000		\$1,332,675	\$2,717,492	\$4,156,440	\$5,651,584	\$7,205,067	\$8,819,109	\$10,496,017	\$12,238,181	\$14,048,083	\$15,928,296
2020 Balance		\$15,928,296											

Tax Increment Development District

Table 31. TIDD Revenues, 2009 - 2020

Revenue Source	Year											
	20	9 2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
		1	2	3	4	5	6	7	8	9	10	11
Gross Receipts Tax												
From Employment												
Service Employment		\$2,347,639	\$4,869,551	\$7,485,834	\$10,199,880	\$13,015,199	\$15,935,427	\$18,931,474	\$22,038,111	\$25,259,276	\$28,599,045	\$32,061,635
Retail Employment		0 \$1,154,329	\$2,395,956	\$3,684,322	\$5,021,115	\$6,408,081	\$7,847,026	\$9,323,162	\$10,854,084	\$12,441,752	\$14,088,192	\$15,795,502
Basic Employment		\$590,445	\$1,252,977	\$1,945,183	\$2,668,248	\$3,423,399	\$4,211,912	\$5,017,908	\$5,858,926	\$6,736,344	\$7,651,587	\$8,606,135
Employment Subtotal		50 \$4,092,414	\$8,518,484	\$13,115,340	\$17,889,243	\$22,846,679	\$27,994,364	\$33,272,543	\$38,751,121	\$44,437,371	\$50,338,824	\$56,463,273
Construction		\$2,283,850	\$2,740,003	\$2,822,203	\$2,906,869	\$2,994,075	\$3,083,897	\$3,032,120	\$3,123,084	\$3,216,776	\$3,313,279	\$3,412,678
Utilities		60 \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Gross Receipts Tax Subtotal		\$6,376,263	\$11,258,487	\$15,937,542	\$20,796,111	\$25,840,754	\$31,078,262	\$36,304,663	\$41,874,205	\$47,654,148	\$53,652,103	\$59,875,951
Property Tax												
Existing Property		\$359,020	\$728,811	\$1,109,696	\$1,502,007	\$1,906,088	\$2,322,291	\$2,750,980	\$3,192,530	\$3,647,326	\$4,115,766	\$4,598,259
New Property		50 \$7,174	\$14,563	\$22,174	\$30,014	\$38,088	\$46,405	\$54,971	\$63,794	\$72,882	\$82,243	\$91,884
Property Tax Subtotal		\$366,194	\$743,375	\$1,131,870	\$1,532,021	\$1,944,176	\$2,368,696	\$2,805,951	\$3,256,324	\$3,720,208	\$4,198,009	\$4,690,144
Annual Revenues												
Total		\$6,742,458	\$12,001,862	\$17,069,413	\$22,328,132	\$27,784,930	\$33,446,957	\$39,110,614	\$45,130,529	\$51,374,356	\$57,850,112	\$64,566,094
Debt Coverage Ratio		1.30										
Available for Debt Service		\$5,186,506	\$9,232,201	\$13,130,317	\$17,175,486	\$21,373,023	\$25,728,429	\$30,085,088	\$34,715,791	\$39,518,735	\$44,500,086	\$49,666,226

Source: Leland Consulting Group

No revenues from utilities construction were estimated.

Table 32. TIDD Revenues, 2021 - 2030

Revenue Source	Year								
	2021	2022	2023	2024	2025	2026	2027	2028	2029
	12	13	14	15	16	17	18	19	20
Gross Receipts Tax									
From Employment									
Service Employment	\$35,607,387	\$39,282,196	\$43,090,616	\$47,037,356	\$51,127,287	\$55,318,156	\$59,659,630	\$64,156,976	\$68,815,637
Retail Employment	\$17,543,524	\$19,355,493	\$21,233,671	\$23,180,401	\$25,198,105	\$27,265,304	\$29,407,138	\$31,626,224	\$33,925,269
Basic Employment	\$9,578,473	\$10,591,859	\$11,647,881	\$12,748,185	\$13,894,478	\$15,063,767	\$16,281,161	\$17,548,494	\$18,867,669
Employment Subtotal	\$62,729,384	\$69,229,548	\$75,972,168	\$82,965,942	\$90,219,871	\$97,647,226	\$105,347,929	\$113,331,694	\$121,608,575
Construction	\$3,321,675	\$3,421,325	\$3,523,965	\$3,629,684	\$3,738,575	\$3,642,988	\$3,752,278	\$3,864,846	\$3,980,791
Utilities	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Gross Receipts Tax Subtotal	\$66,051,059	\$72,650,873	\$79,496,133	\$86,595,626	\$93,958,445	\$101,290,215	\$109,100,206	\$117,196,540	\$125,589,366
Property Tax									
Existing Property	\$5,095,228	\$5,607,105	\$6,134,338	\$6,677,389	\$7,236,731	\$7,812,853	\$8,406,259	\$9,017,467	\$9,647,012
New Property	\$101,815	\$112,043	\$122,579	\$133,430	\$144,607	\$156,119	\$167,977	\$180,190	\$192,770
Property Tax Subtotal	\$5,197,042	\$5,719,148	\$6,256,917	\$6,810,819	\$7,381,338	\$7,968,973	\$8,574,236	\$9,197,658	\$9,839,782
Annual Revenues									
Total	\$71,248,101	\$78,370,021	\$85,753,050	\$93,406,445	\$101,339,783	\$109,259,187	\$117,674,443	\$126,394,198	\$135,429,148
Debt Coverage Ratio									
Available for Debt Service	\$54,806,232	\$60,284,632	\$65,963,885	\$71,851,112	\$77,953,679	\$84,045,528	\$90,518,802	\$97,226,306	\$104,176,268

Table 33. GRT Rate for TIDD (A)

Taxing Jurisdiction	Included in TIDD receipts?	Maximum Allowed	Currently Imposed
City of Albuquerque	Yes.		
State Shared			
Total		1.225%	1.225%
Municipal GRT			
Public Safety			0.25%
Basic Services			0.00%
General Purposes			0.50%
Transportation			0.25%
Unknown			0.00%
Total		1.50%	1.0000%
Municipal Infrastructure GRT			
General Purposes		0.125%	0.063%
Economic Development		0.125%	0%
Total		0.250%	0.063%
Municipal Environmental GRT			
Total		0.063%	0%
State Admin. (Collection) Fee			-0.0188%
City Total		3.0375%	2.2688%
Bernalillo County	No. ¹		0.5625%
State of New Mexico	Possible. Must be approved by State Board of Finance.		3.7750%

Table 34. GRT Rate for TIDD (B)

Taxing Jurisdiction	Base TIDD Rate		Final TIDD Rate
City of Albuquerque	2.2688%	75%	1.7016%
Bernalillo County	0%	0%	0%
State of New Mexico	3.775%	75%	2.8313%

Source: Leland Consulting Group

Table 35. Potential TIDD GRT Rates

A - With State GRT	4.5328%
C - With 1/2 State GRT	3.1172%
B - Without State GRT	1.7016%

Source: Leland Consulting Group

Three separate GRT rates were developed for the TIDD, as shown above, to reflect the unknown of State participation. The revenue generation results of State participation are shown in the Summary Report.

Table 36. Estimated Gross Receipts per Employee, 2006

Employment Type	Notes	Estimated Employees o	Taxable GR er Emp., 2006
Service			
Total			
Sector Specific Employment			
Educational services	UNM	14,000	\$19,090
Health Care	Primarily Presbyterian and Lovelace Hospitals	5,679	\$23,862
Public Administration	Includes City, County, State, and Federal	6,000	\$0
Sector Specific Subtotal		25,679	\$15,685
All Non Sector Specific		12,995	\$59,738
Service Subtotal / Weighted Av.		38,674	\$30,487
Retail	Blended retail and food svc.	6,904	\$83,074
Basic		3,138	\$59,738

Table 37. TIDD GRT Receipts and Increment, 2009 - 2020

	Base	> Increment										
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
		1	2	3	4	5	6	7	8	9	10	11
Gross Receipts in Corri	idor											
Service Employment (Star	\$1,344,062,551	\$1,395,854,653	\$1,451,491,463	\$1,509,210,214	\$1,569,085,747	\$1,631,195,522	\$1,695,619,707	\$1,761,716,577	\$1,830,253,201	\$1,901,316,477	\$1,974,996,323	\$2,051,385,774
Retail Employment	\$654,953,926	\$680,419,996	\$707,811,968	\$736,235,080	\$765,726,547	\$796,324,892	\$828,069,983	\$860,635,539	\$894,409,766	\$929,435,874	\$965,758,581	\$1,003,424,157
Basic Employment	\$234,006,462	\$247,032,490	\$261,648,844	\$276,919,850	\$292,871,632	\$309,531,294	\$326,926,950	\$344,708,318	\$363,262,334	\$382,619,354	\$402,810,858	\$423,869,496
Total	\$2,233,022,939	\$2,323,307,139	\$2,420,952,275	\$2,522,365,143	\$2,627,683,926	\$2,737,051,707	\$2,850,616,640	\$2,967,060,434	\$3,087,925,301	\$3,213,371,705	\$3,343,565,761	\$3,478,679,426
GR Increment												
Service Employment (Star	\$0	\$51,792,102	\$107,428,912	\$165,147,663	\$225,023,196	\$287,132,971	\$351,557,156	\$417,654,026	\$486,190,650	\$557,253,926	\$630,933,772	\$707,323,223
Retail Employment	\$0	\$25,466,071	\$52,858,042	\$81,281,154	\$110,772,622	\$141,370,966	\$173,116,057	\$205,681,613	\$239,455,840	\$274,481,949	\$310,804,655	\$348,470,231
Basic Employment	\$0	\$13,026,029	\$27,642,382	\$42,913,388	\$58,865,171	\$75,524,832	\$92,920,488	\$110,701,856	\$129,255,872	\$148,612,892	\$168,804,396	\$189,863,034
GR Taxes Captured by	TIDD											
Service Employment (Standa	ard)	\$2,347,639	\$4,869,551	\$7,485,834	\$10,199,880	\$13,015,199	\$15,935,427	\$18,931,474	\$22,038,111	\$25,259,276	\$28,599,045	\$32,061,635
Retail Employment		\$1,154,329	\$2,395,956	\$3,684,322	\$5,021,115	\$6,408,081	\$7,847,026	\$9,323,162	\$10,854,084	\$12,441,752	\$14,088,192	\$15,795,502
Basic Employment		\$590,445	\$1,252,977	\$1,945,183	\$2,668,248	\$3,423,399	\$4,211,912	\$5,017,908	\$5,858,926	\$6,736,344	\$7,651,587	\$8,606,135
Total		\$4,092,414	\$8,518,484	\$13,115,340	\$17,889,243	\$22,846,679	\$27,994,364	\$33,272,543	\$38,751,121	\$44,437,371	\$50,338,824	\$56,463,273

Source: Leland Consulting Group

Table 38. TIDD GRT Receipts and Increment, 2020 - 2030

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
	12	13	14	15	16	17	18	19	20	21
Gross Receipts in Co	rridor									
Service Employment (Star	\$2,129,609,864	\$2,210,681,152	\$2,294,700,069	\$2,381,770,508	\$2,471,999,943	\$2,564,456,195	\$2,660,235,022	\$2,759,452,568	\$2,862,228,956	\$2,968,688,419
Retail Employment	\$1,041,987,897	\$1,081,962,380	\$1,123,397,543	\$1,166,345,050	\$1,210,858,349	\$1,256,463,568	\$1,303,715,327	\$1,352,671,375	\$1,403,391,442	\$1,455,937,309
Basic Employment	\$445,320,582	\$467,677,252	\$490,974,533	\$515,248,742	\$540,537,526	\$566,333,610	\$593,190,975	\$621,150,082	\$650,252,864	\$680,542,777
Total	\$3,616,918,343	\$3,760,320,784	\$3,909,072,145	\$4,063,364,299	\$4,223,395,818	\$4,387,253,373	\$4,557,141,325	\$4,733,274,026	\$4,915,873,262	\$5,105,168,505
GR Increment										
Service Employment (Star	\$785,547,313	\$866,618,601	\$950,637,518	\$1,037,707,957	\$1,127,937,392	\$1,220,393,644	\$1,316,172,471	\$1,415,390,017	\$1,518,166,405	\$1,624,625,868
Retail Employment	\$387,033,971	\$427,008,454	\$468,443,617	\$511,391,124	\$555,904,423	\$601,509,642	\$648,761,402	\$697,717,449	\$748,437,516	\$800,983,383
Basic Employment	\$211,314,121	\$233,670,790	\$256,968,072	\$281,242,280	\$306,531,064	\$332,327,148	\$359,184,514	\$387,143,621	\$416,246,402	\$446,536,315
GR Taxes Captured b	y TIDD									
Service Employment (Star	\$35,607,387	\$39,282,196	\$43,090,616	\$47,037,356	\$51,127,287	\$55,318,156	\$59,659,630	\$64,156,976	\$68,815,637	\$73,641,244
Retail Employment	\$17,543,524	\$19,355,493	\$21,233,671	\$23,180,401	\$25,198,105	\$27,265,304	\$29,407,138	\$31,626,224	\$33,925,269	\$36,307,075
Basic Employment	\$9,578,473	\$10,591,859	\$11,647,881	\$12,748,185	\$13,894,478	\$15,063,767	\$16,281,161	\$17,548,494	\$18,867,669	\$20,240,654
Total	\$62,729,384	\$69,229,548	\$75,972,168	\$82,965,942	\$90,219,871	\$97,647,226	\$105,347,929	\$113,331,694	\$121,608,575	\$130,188,973

Table 39. TIDD Property Tax Rate

Taxing Jurisdiction	Included in TIDD receipts?	Currently Imposed	
		Residential	Non-Residential
City of Albuquerque			
Operating	Yes	0.303%	0.327%
Debt Service	No	0.798%	0.798%
Total City		1.100%	1.125%
State of New Mexico	No. (Confirm)	0.123%	0.123%
Bernalillo County	Yes	0.728%	1.093%
Other			
Albuquerque Public Schools	No	0.828%	0.881%
Technical Vocational Education	No	0.304%	0.331%
Flood Control Authority	No	0.086%	0.107%
Hospital (UNMH/BCMC)	No	0.650%	0.589%
Total Other		1.867%	1.908%
Total All Jurisdictions		3.819%	4.249%
TIDD Rate			
Albuquerque Operating		0.303%	0.327%
Bernalillo County		0.728%	1.093%
Total TIDD Rate		1.828%	2.218%

Table 40. TIDD: Property Tax Receipts, 2009 - 2020

		> INCREMENT										
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Net Taxable Value												
Existing Property												
Residential	\$370,659,509	\$381,779,294	\$393,232,673	\$405,029,653	\$417,180,543	\$429,695,959	\$442,586,838	\$455,864,443	\$469,540,376	\$483,626,588	\$498,135,385	\$513,079,447
Non Residential	\$233,982,823	\$241,002,308	\$248,232,377	\$255,679,348	\$263,349,729	\$271,250,221	\$279,387,727	\$287,769,359	\$296,402,440	\$305,294,513	\$314,453,348	\$323,886,949
Subtotal												
New Property from Construct	tion											
Residential	\$8,378,717	\$8,630,078	\$8,888,981	\$9,155,650	\$9,430,319	\$9,713,229	\$10,004,626	\$10,304,765	\$10,613,908	\$10,932,325	\$11,260,295	\$11,598,103
Non Residential	\$3,874,292	\$3,990,520	\$4,110,236	\$4,233,543	\$4,360,549	\$4,491,366	\$4,626,107	\$4,764,890	\$4,907,837	\$5,055,072	\$5,206,724	\$5,362,926
Subtotal								• • • • • • • • • • • • • • • • • • • •				
Property Tax Revenue												
Tax Rate												
Residential	1.828%	1.828%	1.828%	1.828%	1.828%	1.828%	1.828%	1.828%	1.828%	1.828%	1.828%	1.828%
Non Residential	2.218%	2.218%	2.218%	2.218%	2.218%	2.218%	2.218%	2.218%	2.218%	2.218%	2.218%	2.218%
Existing Property												
Residential	\$6,777,138	\$6,980,453	\$7,189,866	\$7,405,562	\$7,627,729	\$7,856,561	\$8,092,258	\$8,335,025	\$8,585,076	\$8,842,629	\$9,107,907	\$9,381,145
Non Residential	\$5,190,207	\$5,345,913	\$5,506,291	\$5,671,479	\$5,841,624	\$6,016,872	\$6,197,379	\$6,383,300	\$6,574,799	\$6,772.043	\$6,975,204	\$7,184,460
Subtotal	\$11,967,345	\$12,326,366	\$12,696,157	\$13,077,041	\$13,469,353	\$13,873,433	\$14,289,636	\$14,718,325	\$15,159,875	\$15,614,671	\$16,083,112	\$16,565,605
New Property from Construct	and the second	,	,,	,	,	,	•••,,	••••	,	,	,	,,
Residential	\$153,196	\$157,792	\$162,526	\$167,402	\$172,424	\$177,597	\$182,925	\$188,412	\$194,065	\$199,887	\$205,883	\$212,060
Non Residential	\$85,940	\$88,518	\$91,173	\$93,908	\$96,726	\$99,627	\$102,616	\$105,695	\$108,866	\$112,132	\$115,496	\$118,960
Subtotal	\$239,136	\$246,310	\$253,699	\$261,310	\$269,150	\$277,224	\$285,541	\$294,107	\$302,930	\$312,018	\$321,379	\$331,020
Total	\$12,206,481	\$12,572,676	\$12,949,856	\$13,338,352	\$13,738,502	\$14,150,657	\$14,575,177	\$15,012,433	\$15,462,805	\$15,926,690	\$16,404,490	\$16,896,625
Property Tax Increment	•,,		, , , , , , , , , , , , , , , , , , , ,	,	,	,		,	,,	,,	,	,,
Existing Property												
Residential	\$0	\$203,314	\$412,728	\$628,424	\$850,591	\$1,079,422	\$1,315,119	\$1,557,887	\$1,807,938	\$2,065,490	\$2,330,769	\$2,604,006
Non Residential	\$0	\$155,706	\$316,084	\$481,272	\$651,417	\$826,665	\$1,007,172	\$1,193,093	\$1,384,592	\$1,581,836	\$1,784,997	\$1,994,253
Subtotal	\$0	\$359,020	\$728,811	\$1,109,696	\$1,502,007	\$1,906,088	\$2,322,291	\$2,750,980	\$3,192,530	\$3,647,326	\$4,115,766	\$4,598,259
New Property from Construct	tion	, , , , , , , , , , , , , , , , , , , ,	,			.,					.,,	
Residential	\$0	\$4,596	\$9,330	\$14,205	\$19,228	\$24,400	\$29,728	\$35,216	\$40,868	\$46,690	\$52,687	\$58,863
Non Residential	\$0	\$2,578	\$5,234	\$7,969	\$10,786	\$13,688	\$16,677	\$19,755	\$22,926	\$26,192	\$29,556	\$33,021
Subtotal		\$7,174	\$14,563	\$22,174	\$30,014	\$38,088	\$46,405	\$54,971	\$63,794	\$72,882	\$82,243	\$91,884
Total	\$0	\$366,194	\$743,375	\$1,131,870	\$1,532,021	\$1,944,176	\$2,368,696	\$2,805,951	\$3,256,324	\$3,720,208	\$4,198,009	\$4,690,144
TIDD Share												
Existing Property		\$359,020	\$728,811	\$1,109,696	\$1,502,007	\$1,906,088	\$2,322,291	\$2,750,980	\$3,192,530	\$3,647,326	\$4,115,766	\$4,598,259
New Property from Construction	in	\$7,174	\$14,563	\$22,174	\$30,014	\$38,088	\$46,405	\$54,971	\$63,794	\$72,882	\$82,243	\$91,884
Total	\$0	\$366,194	\$743,375	\$1,131,870	\$1,532,021	\$1,944,176	\$2,368,696	\$2,805,951	\$3,256,324	\$3,720,208	\$4,198,009	\$4,690,144

Table 41. Table 42. TIDD: Property Tax Receipts, 2021 - 2030

	2021	2022	2023	2024	2025	2026	2027	2028	2029	203
Net Taxable Value										
Existing Property			0500.055.705		0504 700 704					
Residential	\$528,471,830	\$544,325,985	\$560,655,765	\$577,475,437	\$594,799,701	\$612,643,692	\$631,023,002	\$649,953,692	\$669,452,303	\$689,535,87
Non Residential	\$333,603,557	\$343,611,664	\$353,920,014	\$364,537,614	\$375,473,743	\$386,737,955	\$398,340,094	\$410,290,297	\$422,599,006	\$435,276,97
Subtotal										
New Property from Construc										
Residential	\$11,946,046	\$12,304,428	\$12,673,561	\$13,053,768	\$13,445,381	\$13,848,742	\$14,264,204	\$14,692,130	\$15,132,894	\$15,586,88
Non Residential	\$5,523,814	\$5,689,528	\$5,860,214	\$6,036,020	\$6,217,101	\$6,403,614	\$6,595,722	\$6,793,594	\$6,997,402	\$7,207,324
Subtotal										
Property Tax Revenue										
Tax Rate										
Residential	1.828%	1.828%	1.828%	1.828%	1.828%	1.828%	1.828%	1.828%	1.828%	1.828%
Non Residential	2.218%	2.218%	2.218%	2.218%	2.218%	2.218%	2.218%	2.218%	2.218%	2.218%
Existing Property										
Residential	\$9,662,579	\$9,952,456	\$10,251,030	\$10,558,561	\$10,875,318	\$11,201,577	\$11,537,625	\$11,883,753	\$12,240,266	\$12,607,474
Non Residential	\$7,399,994	\$7,621,994	\$7,850,654	\$8,086,173	\$8,328,759	\$8,578,621	\$8,835,980	\$9,101,059	\$9.374.091	\$9,655,314
Subtotal	\$17.062.573	\$17,574,450	\$18,101,684	\$18,644,734	\$19,204,076	\$19,780,199	\$20,373,605	\$20,984,813	\$21,614,357	\$22,262,78
New Property from Construct		,	,		<i>•••••••••••••••••••••••••••••••••••••</i>	••••	+==,===,===	+==,===,===	+= .,	+,,-
Residential	\$218,422	\$224,974	\$231,723	\$238,675	\$245,835	\$253,210	\$260,807	\$268,631	\$276,690	\$284,99
Non Residential	\$122,529	\$126,205	\$129,991	\$133,891	\$137,908	\$142,045	\$146,306	\$150,696	\$155,216	\$159,873
Subtotal	\$340,951	\$351,179	\$361,715	\$372,566	\$383,743	\$395,255	\$407,113	\$419,326	\$431,906	\$444,863
Total	\$17,403,524	\$17,925,630	\$18,463,398	\$19,017,300	\$19,587,819	\$20,175,454	\$20,780,718	\$21,404,139	\$22,046,263	\$22,707,65
Property Tax Increment	\$11,403,324	\$11,525,050	\$10,403,330	\$15,017,500	\$15,507,015	\$20,113,434	\$20,700,710	\$21,404,133	\$22,040,205	\$22,101,05
Existing Property	CO 005 440	C2 475 240	£2 472 000	C2 704 400	£4.000.470	E4 404 400	CA 7CO 40C	EE 400 045	EE 402 407	@C 020 22
Residential	\$2,885,440	\$3,175,318	\$3,473,892	\$3,781,422	\$4,098,179	\$4,424,439	\$4,760,486	\$5,106,615	\$5,463,127	\$5,830,33
Non Residential Subtotal	\$2,209,787 \$5.095.228	\$2,431,787	\$2,660,447	\$2,895,966	\$3,138,552	\$3,388,414	\$3,645,773	\$3,910,852	\$4,183,884	\$4,465,10
New Property from Construct		\$5,607,105	\$6,134,338	\$6,677,389	\$7,236,731	\$7,812,853	\$8,406,259	\$9,017,467	\$9,647,012	\$10,295,442
Residential	\$65,225	\$71,778	\$78,527	\$85,479	\$92,639	\$100.014	\$107.610	\$115,434	\$123,493	\$131,794
Non Residential	\$36,590	\$40,266	\$44,052	\$47,951	\$51,968	\$56,105	\$60,367	\$64,756	\$69,277	\$73,93
Subtotal	\$101,815	\$112,043	\$122,579	\$133,430	\$144,607	\$156,119	\$167,977	\$180,190	\$192,770	\$205,72
Total	\$5,197,042	\$5,719,148	\$6,256,917	\$6,810,819	\$7,381,338	\$7,968,973	\$8,574,236	\$9,197,658	\$9,839,782	\$205,72
Total	\$J,197,04Z	\$5,715,140	\$0,230,317	\$0,010,015	\$1,301,330	\$1,300,313	\$0,374,230	\$9,197,030	\$9,039,102	\$10,501,170
TIDD Share										
Existing Property	\$5,095,228	\$5,607,105	\$6,134,338	\$6,677,389	\$7,236,731	\$7,812,853	\$8,406,259	\$9,017,467	\$9,647,012	\$10,295,442
New Property from Constructi	\$101,815	\$112,043	\$122,579	\$133,430	\$144,607	\$156,119	\$167,977	\$180,190	\$192,770	\$205,72
Total	\$5,197,042	\$5,719,148	\$6,256,917	\$6,810,819	\$7,381,338	\$7,968,973	\$8,574,236	\$9,197,658	\$9,839,782	\$10,501,17

Public Improvement District (PID)

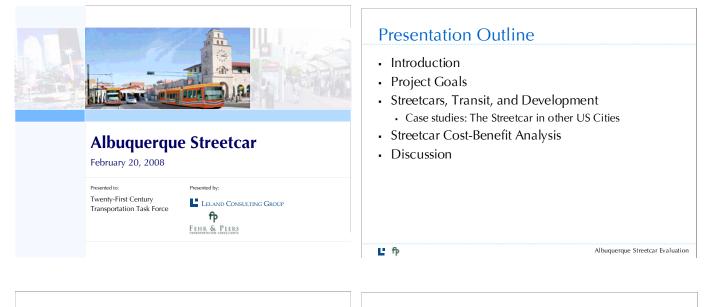
The statutory maximum tax rate increase for a PID is 1.639% (or 16.39 mils). 0.3% was used in this model; this is a rate similar to the improvement districts implemented for the Seattle and Portland streetcars. Residential property was not assumed to be assessed in the final PID model.

The PID area used here is all parcels within ¼ mile of the proposed streetcar alignment, not the ½ mile used for the TIDD. This distance reflects conventional perception that the most easily identifiable real estate impacts of transit improvements occur within a closer radius of the improvement. It is also reflected in lower property values than used in the TIDD.

	Alignment Section								
	А	В	С	Full					
District Net Taxable Property	Value								
Commercial Only	\$24,932,755	\$79,006,306	\$42,555,488	\$146,494,549					
Com. and Res.	\$79,804,433	\$124,870,579	\$89,097,966	\$293,772,978					
Model Value	\$24,932,755	\$79,006,306	\$42,555,488	\$146,494,549					
Annual Rate									
Maximum	1.6%	1.6%	1.6%	1.6%					
Model	0.3%	0.3%	0.3%	0.3%					
Annual Assessment									
Total	\$74,798	\$237,019	\$127,666	\$439,484					
Debt Coverage Ratio	1.25	1.25	1.25	1.25					
Available for Debt Service	\$59,839	\$189,615	\$102,133	\$351,587					
Bond Potential	\$778,377	\$2,466,502	\$1,328,542	\$4,573,420					

H. February 2008 Introductory Presentation

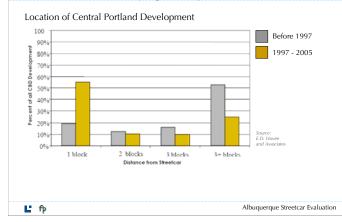
Some information in this presentation pertaining to operating costs has been superseded by more recent data.



About th	nis Project			Cost Benefit Analysis					
 Fehr & Scope of Albuque Review Identify Market Financi 	Consulting Gro Peers	oenefit Analysis o r rship Estimates	Costs • Capital • Operations • Opportunity Cost	 Benefits Economic Development Downtown Revitalization Connect major destinations Quality of life Transportation Benefits Ridership Improved environment for walking, biking Transportation options Congestion mitigation Environmental Impacts Reduced pollution Improved air quality 					
⊑ ባ		Alt	ouquerque Streetcar Evaluation	Ľ ሱ	Albuquerque Streetcar Evaluation				
	nsit Lands Light Rail	Streetcar	Bus	Portland Why Portland? • First modern mode • Connects the dots • Downtown: Emplo and retail center					
Markets Served Ridership System characteristics	Regional Commuters Emphasis: Speed, distance	Local *central city circulator* Commuters, shoppers, tourists, students, conventioneers, Emphasis: Frequency, connectivity	Usually local, sometimes regional Commuters, some shoppers Varies	 Urban neighborho Historic and new University 	ods:				
Vehicle characteristics	1/2 mile+ between stations 150 feet long Wide turn radius Low floor	1/4 mile between stations 65 feet long Tight tum radius Low floor	tnership						
Right of Way Development Impacts Capital Cost Operations Cost	Dedicated lanes Strong	Mixed traffic lanes Very strong	Mixed traffic lanes Weak	Development imp	acts				
		Alb	ouquerque Streetcar Evaluation	Ľħ	Albuquerque Streetcar Evaluation				



Portland: Quantifying the Impact



Portland: Keys to Success

- Strong Anchors (Connecting the Dots) • Downtown, Pearl District,
 - Portland State
- Political Leadership and Vision
 - "Central City Circulator" suggested as early as 1970s

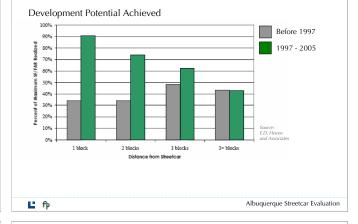
 - · Leaders take the case to land owners, public, and media
 - Public responsibilities include freeway demolition, parking strategies, three parks
 - Back up vision with public dollars
- Savvy Developers & Site Control
 - · Urban developer Hoyt St. Properties owns 40+ acres directly surrounding alignment
- Other major developers control other key parcels
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Albuquerque Streetcar Evaluation



Portland: Quantifying the Impact

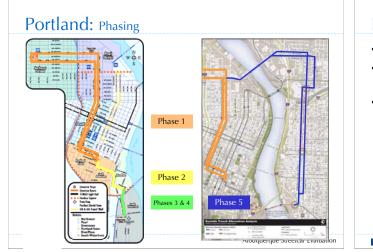


Portland: Keys to Success

- Private sector leadership
- · Local merchants lead assessment district Healthy residential, office, and retail
- markets; good demographics · Real estate soars in 1990s and 2000s
- · High density urban housing fulfills unmet demand for young singles, couples, and downsizing boomers
- · Regional population and employment growth
- Appropriate regulation; quality urban design and architecture
- · Both public and private committed to quality
- · Several district-wide plans
- · Development agreements require: high density, active ground floors, high quality, parking location and quantity, affordable housing and more

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Albuquerque Streetcar Evaluation

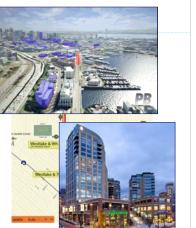


Seattle

- Opened December 2007
- 1.3 mile starter line
- 1,000 daily ridership .
- Connects Biotech: UW campus and private labs
 - South Lake Union area including lakefront park
- Downtown Development Partner
- Vulcan Real Estate Roaring real estate market

Funding

- Local improvement district
- Federal/MPO grants
- Joint development .



Portland: Funding Local lead \$5.5 Regional Transportation Fund Institutional Contributions A new model for \$6.9 Local Improvement District transit funding Independent, non-profit management \$41.6 City Parking Revenues Tax Increment Financing

\$56.9

Total Capital Cost

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Tacoma

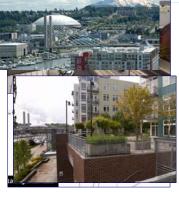
Opened 2003

- 1.6 miles .
- 2,500 + daily ridership . Connects
 - Cultural district
 - Convention center
 - Downtown employment
 - Regional transit links
- No master developer

transit agency

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- Middling residential and office . markets compared to Portland and Seattle
- Constrained development sites Largely funded by regional



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Albuquergue Streetcar Evaluation

Tampa

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Moving tourists first, locals later

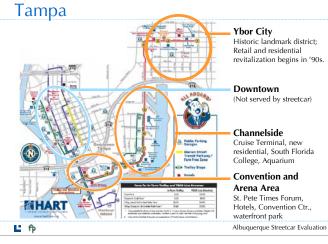
Connecting the dots

"The streetcar was an exercise in place-making. Transportation is never just about moving people from A to B, it's a tool for creating communities." -HART

"It's like Riverwalk in San Antonio. It gives convention organizers a reason to choose Tampa." -Chamber of Commerce

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Ybor City Historic landmark district; Retail and residential revitalization begins in '90s.

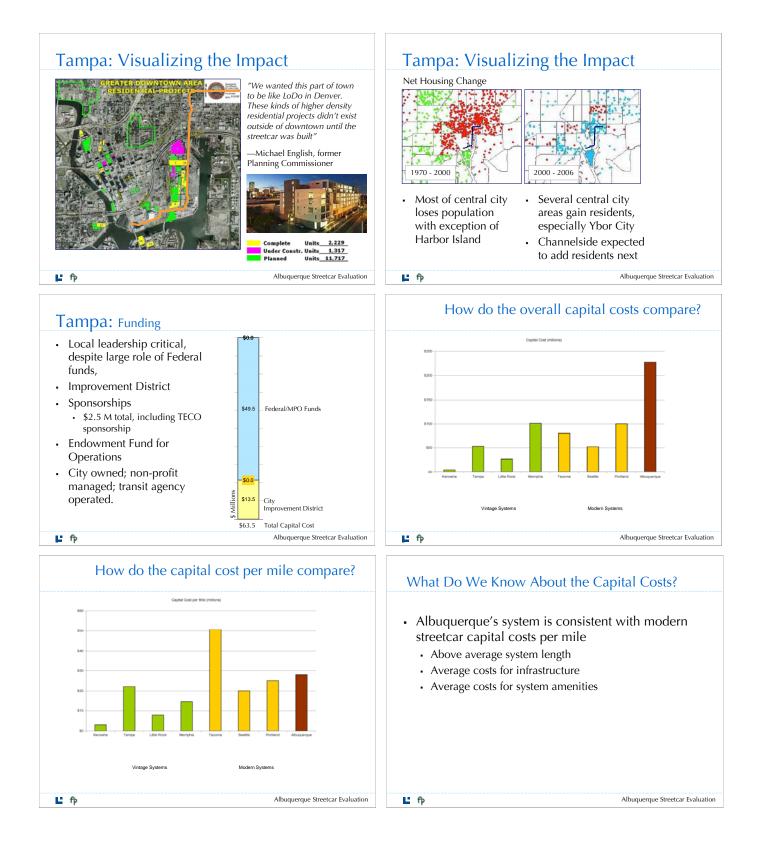
(Not served by streetcar)

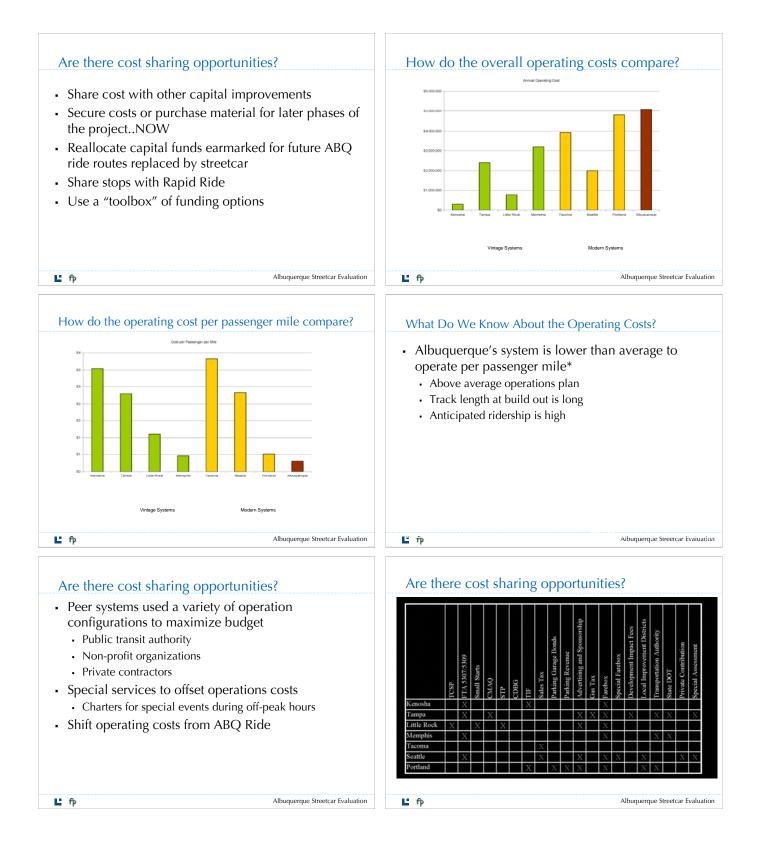
Channelside

Cruise Terminal, new residential, South Florida College, Aquarium

Convention and Arena Area St. Pete Times Forum, Hotels, Convention Ctr., waterfront park

Leland Consulting Group - Fehr & Peers







Funding potential

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