

WESTERN EL DORADO COUNTY SHORT RANGE AND LONG RANGE TRANSIT PLAN STUDY

FINAL PLAN



Prepared for the

El Dorado County Transportation Commission

Prepared by

LSC Transportation Consultants, Inc.

WESTERN EL DORADO COUNTY SHORT RANGE AND LONG RANGE TRANSIT PLAN STUDY

Final Plan

Prepared for the

El Dorado County Transportation Commission
550 Main Street, Suite C
Placerville, California 95667
530/642-5262

Prepared by

LSC Transportation Consultants, Inc.
2690 Lake Forest Road
PO Box 5875
Tahoe City, California 96145
530/583-4053

November 10, 2003

LSC #027760

EIDo 2003 Final Plan.wpd

TABLE OF CONTENTS

CHAPTER	PAGE
I Introduction	I-1
II Study Area Characteristics	II-1
Study Area	II-1
Land Use	II-1
Major Activity Centers	II-1
Economy	II-4
Employment	II-4
Means of Transportation to Work	II-5
Traffic Conditions	II-5
Existing Planning Processes	II-7
Air Quality	II-11
Findings of El Dorado County Unmet Transit Needs	II-11
Population	II-13
Transit Dependent Population	II-13
Western El Dorado County Commute Patterns	II-17
III Transportation Services	III-1
Background	III-1
El Dorado County Transit Authority	III-1
Discontinued Transportation Services	III-7
Existing Fare Media	III-7
Ridership	III-9
Financial Characteristics	III-17
Fiscal Year 2001-02 System Performance Analysis	III-17
Transit Capital Assets	III-28
El Dorado County Transportation Commission Public Transit Survey	III-28
Other Transit Providers	III-32
Regional Transportation Services	III-33
IV Transit Demand Analysis	IV-1
Non-Program Urban Demand Estimation	IV-1
Non-Program Rural Demand Estimation	IV-5
Social Service Program-Related Transit Demand	IV-5
Summary of Short-Range Transit Demand	IV-13
V Key Person Attitudes Toward Transit	V-1
VI Potential Financial Resources	VI-1
Federal Transit Funding Sources	VI-1
State Transit Funding Sources	IV-3
State Transit Assistance (STA) Funds	VI-3
VII Service Alternatives	VII-1
Local Deviated Fixed Route Service Alternatives	VII-1
Dial-A-Ride Service Alternatives	VII-17
Commuter Service Alternatives	VII-20
Comparison of Short-Range Service Alternatives	VII-22
VIII Long-Range Forecast of Transit Conditions	VIII-1

TABLE OF CONTENTS

CHAPTER		PAGE
IX	Capital Alternatives	IX-1
	Vehicle Alternatives	IX-1
	Improvements to EDCTA Administration/Maintenance Center	IX-6
	Improved Missouri Flat Transfer Center	IX-6
	Other Passenger Amenities	IX-7
	Advanced Public Transit System Technologies	IX-8
X	Institutional and Management Alternatives	X-1
	Institutional Alternatives	X-1
	Management Alternatives	X-3
XI	Short-Range and Long-Range Transit Plan	XI-1
	Service Plan	XI-1
	Capital Plan	XI-7
	Institutional and Management Plan	XI-12
	Financial Plan	XI-16
	Implementation Plan	XI-23
	APPENDIX – A	
	APPENDIX – B	

LIST OF TABLES

TABLE	PAGE
1 El Dorado Countywide 2000 Unemployment	II-5
2 Western El Dorado County's 25 Largest Employers, 2001	II-6
3 Estimated 2000 Travel-To-Work Mode Split	II-6
4 El Dorado Countywide Population History	II-13
5 Western El Dorado County Population Projections by Regional Analysis District	II-14
6 Western El Dorado County Estimated 2000 Demographic Data by Census Tract	II-15
7 2002 Home-Based Work Person-Trips in the Sacramento Region	II-23
8 Summary of Total El Dorado County Resident Home-Based Work Person-Trips	II-24
9 Summary of Home-Based Work Person-Trips to Employment in El Dorado County	II-25
10 2002 Total Person-Trips Within El Dorado County	II-28
11 Change in Total Daily Person-Trips Within El Dorado County – 2002 to 2025	II-30
12 Percent Change in Total Daily Person-Trips Within El Dorado County – 2002 to 2025	II-31
13 Percent of All Changes in Total Daily Person-Trips Within El Dorado County – 2002 to 2025	II-32
14 Total Daily Internal El Dorado Person-Trip Generation by District	II-33
15 EDCTA Fare Structure	III-8
16 EDCTA Historical Ridership	III-10
17 EDCTA Historical Vehicle Service Hours Operated	III-12
18 El Dorado Transit Historical Vehicle Service Miles Traveled	III-13
19 EDCTA Historical Productivity	III-14
20 EDCTA Passengers By Day Of Week	III-15
21 Total EDCTA Ridership by Month, Fiscal Year 2001-02	III-16
22 EDCTA Cost Allocation Model, Fiscal Year 2002-03	III-18
23 EDCTA Revenues, Fiscal Years 1997-98 through 2001-02	III-19
24 EDCTA Operating Data and Performance Indicators, Fiscal Year 2001-02 (Page 1 of 3)	III-20
24 EDCTA Operating Data and Performance Indicators, Fiscal Year 2001-02 (Page 2 of 3)	III-21
24 EDCTA Operating Data and Performance Indicators, Fiscal Year 2001-02 (Page 3 of 3)	III-22
25 EDCTA Shelter and Bench Locations	III-29
26 EDCTA Transit Vehicle Fleet Inventory	III-30
27 Western El Dorado County Employee Transit Use Method of Urban Demand Estimator	IV-3
28 Western El Dorado County Modal Split Method of Demand Estimation	IV-4
29 TCRP Method of Rural Demand Estimation – 2000 Data Inputs	IV-6
30 TCRP Method of Rural Demand Estimation – 2000 Estimates	IV-7
31 TCRP Method of Rural Demand Estimation – 2010 Data Inputs	IV-8
32 TCRP Method of Rural Demand Estimation – 2010 Estimates	IV-9
33 TCRP Method of Rural Demand Estimation – 2025 Data Inputs	IV-10
34 TCRP Method of Rural Demand Estimation – 2025 Estimates	IV-11
35 El Dorado County Program-Related Transit Demand	IV-12
36 Summary of 2000 Western El Dorado County Transit Demand	IV-14
37 EDCTA Service Alternatives	VII-3
38 EDCTA Expanded Local Deviated Fixed Route Service	VII-9
39 Summary of Peer System Rural Route Performance Indicators	VII-19
40 Analysis of Long-Range 2025 EDCTA Ridership	VIII-2
41 Analysis of Long-Range EDCTA Service Requirements	VIII-4
42 Fleet Replacement and Expansion Schedule	XI-9
43 Analysis of Future Change in Demand for Park-and-Ride Lots	XI-13
44 EDCTA Short Range Transit Plan - Estimated Operating Costs	XI-17
45 EDCTA Short Range Transit Plan - Estimated Ridership Impacts	XI-18
46 EDCTA Short Range Transit Plan - Estimated Farebox Revenues	XI-20
47 EDCTA Short Range Transit Plan - Estimated Capital Costs	XI-21
48 EDCTA Short Range Transit Plan - Financial Plan	XI-22
49 EDCTA Long Range Ridership, Financial and Fleet Forecast	XI-26

LIST OF FIGURES

FIGURE	PAGE
1 Western El Dorado County Site and Location	II-2
2 Western El Dorado County Census Tracts Map	II-16
3 Western El Dorado County Elderly Population By Census Tract	II-18
4 Western El Dorado County Mobility Limited Persons By Census Tract	II-19
5 Western El Dorado County Persons Below Poverty Level By Census Tract	II-20
6 Western El Dorado County Zero Vehicle Households By Census Tract	II-21
7 Districts Used in Analysis of Commute Patterns	II-22
8 EDCTA Organization Chart	III-2
9 EDCTA Local Deviated Fixed Routes	III-3
10 EDCTA Commuter Bus Routes	III-4
11 EDCTA Historical Ridership	III-11
12 EDCTA Annual Ridership	III-23
13 EDCTA Annual Operating Cost	III-24
14 EDCTA Annual Subsidy	III-24
15 EDCTA Farebox Recovery	III-25
16 EDCTA Operating Cost/Trip	III-26
17 EDCTA Oper. Subsidy/Trip	III-26
18 EDCTA Trips/V.S.H.	III-27
19 EDCTA Trips/V.S.M.	III-27
20 EDCTA Weekday Vehicle Utilization by Route & Time of Day	III-31
21 Western El Dorado County Urban Transit Demand	IV-15
22 Western El Dorado County Rural Transit Demand	IV-15
23 EDCTA Service Alternatives	VII-24
24 EDCTA Service Alternatives	VII-25
25 EDCTA Service Alternatives	VII-26
26 EDCTA Service Alternatives	VII-27
27 EDCTA Service Alternatives	VII-29
28 EDCTA Service Alternatives	VII-30
29 EDCTA Long-Range Ridership Forecasts	VIII-5
30 EDCTA Long-Range Subsidy Forecasts	VIII-7
31 EDCTA Long-Range Fleet Size	VIII-8
32 EDCTA Short Range Transit Plan	XI-2