

***Murphys Circulation, Pedestrian, Bicycling,  
and Parking Study***

***Final Report***

Prepared for the:

Calaveras Council of Governments  
692 Marshall  
P.O. Box 280  
San Andreas, CA 95249  
209-754-2094

Prepared by:

LSC Transportation Consultants, Inc.  
Post Office Box 5875  
2690 Lake Forest Road, Suite C  
Tahoe City, CA 96145-5875  
530-583-4053

February 4, 2002

# 007620

*Murphys Final Report.wpd*

# Table of Contents

---

Chapter	Page
<b>1 Introduction</b> .....	<b>1</b>
Background .....	1
<b>2 Land Use and Population Characteristics</b> .....	<b>4</b>
Land Use .....	4
Population .....	6
Employment .....	7
Existing Commuting Activity .....	7
<b>3 Existing and Future Traffic Conditions</b> .....	<b>10</b>
Existing Transportation Facilities .....	10
Truck Traffic Volumes .....	24
Existing Transit Service .....	24
Future 2020 Traffic Conditions .....	24
Pedestrian Activity .....	33
Bicycle Activity .....	33
Existing Accident Data .....	33
Existing Traffic Circulation Issues .....	36
<b>4 Potential New Roadway, Bicycle, and Pedestrian Facilities</b> .....	<b>39</b>
Potential Future Roadway Alignments .....	39
Analysis of Potential Pedestrian Alternatives .....	42
Potential Pedestrian Walkways .....	66
Potential Bike Paths .....	72
<b>5 Existing Parking Conditions and Plans</b> .....	<b>74</b>
Existing Parking Supply .....	74
Existing Parking Demand .....	74
Parking Fee Program .....	82
<b>6 Recommended Traffic Circulation Plan</b> .....	<b>84</b>
Recommended Transportation Strategy .....	83
Recommended Circulation Improvements .....	90
<b>7 Recommended Pedestrian and Bicycle Circulation and Parking Plan</b> .....	<b>99</b>
Recommended Parking Improvements .....	99
Recommended Bicycle and Pedestrian Improvements .....	101

# List of Tables

---

1	Historic Population Growth Trends in Murphys and Calaveras County	7
2	1990 Census Data for Murphys	8
3	Population Projections for Calaveras County and Murphys	9
4	Murphys Roadway Inventory	11
5	Traffic Volumes Along Major Roadways in Murphys	13
6	Unadjusted Peak-Hour Counts at Major Intersections in Murphys	14
7	Traffic Volumes on SR 4: 1990-1999	15
8	Estimated 2001 ADT and Peak Hour Volumes Along Major Roadways in Murphys	16
9	Murphys Existing Intersection Level Of Service (LOS)	20
10	Analysis of Main Street Roadway Capacity	22
11	1998 Truck Traffic Along SR 4 in the Murphys Area	25
12	1995 and 2015 ADT Volumes from Calaveras County Transportation Model	27
13	Estimated 2020 ADT Assuming No New Roadways	28
14	Murphys 2020 Intersection Level Of Service (LOS)	32
15	Murphys Accident Data (January 1997 through March, 2000)	34
16	Murphys Accident Data Comparison to State Averages	37
17	Estimated Travel Distance and Travel Time on New Roadway Alternatives	45
18	Comparison of Murphys Roadway Alternatives	46
19	List of Locations in California that Have Installed or are Planning to Install In-Pavement Flashers	71
20	Existing Parking Supply by Parking Analysis Zone.	76
21	Estimated Land Use Quantities and Parking Demand By Parking Analysis Zone.	77
22	Existing Parking Supply Vs. Demand By Analysis Zone.	79
23	Estimated 2020 ADT Resulting from Recommended Traffic Circulation Plan.	86
24	2020 Turning-Movement Volumes at New Intersections Under Recommended Plan.	88
25	Murphys 2020 Intersection LOS with Recommended Roadway Plan	89

## List of Figures

1	Murphys Site Location Map	2
2	Murphys 2001 Average Mid-week Daily Traffic Volumes	17
3	2001 PM Peak-Hour Traffic Volumes	18
4	Murphys 2020 Average Mid-Week Daily Traffic Volumes	29
5	2020 PM Peak-Hour Traffic Volumes	30
6	Murphys Accident History (1997-1999)	35
7	Potential Roadway Alignments	40
8	Calaveras County TAZ Boundary Map	43
9	Trip Origins of Daily Traffic on Main Street	44
10	Comparison of ADT Along Potential Roadway Alternatives	47
11	Reduction in Annual VMT Resulting from Potential Roadway	48
12	Estimated ADT Resulting on New Roadways	49
13	Potential Black Bart Parking Improvements	63
14	Murphys Potential Pedestrian Paths	68
15	Murphys Potential Bicycle Paths	73
16	Murphys Parking Zone Map	75
17	Existing Parking Supply vs. Shared Demand by Parking Zone	80
18	Total Saturday Hourly Parking Demand - Murphys Village Area	81
19	Total Weekday Hourly Parking Demand - Murphys Village Area	81
20	Recommended Traffic Circulation Plan	85
21	2020 PM Peak Hour Traffic Volumes with Implementation of Recommended Plan	87
22	Options for Jones/Main Street Intersection	94
23	Recommended Parking Plan	100
24	Recommended Regional Bike/Pedestrian Circulation Plan	102
25	Recommended Murphys Village Area Bike/Pedestrian Plan	103
26	Recommended Regional Bikeway Improvements	104
27	Depiction of Potential Improvements to Algiers Street - Option 1	106
28	Depiction of Potential Improvements to Algiers Street - Option 2	106