



THOMAS L. BOLICH
DIRECTOR OF PUBLIC WORKS

County of Santa Cruz

DEPARTMENT OF PUBLIC WORKS

701 OCEAN STREET, ROOM 410, SANTA CRUZ, CA 95060-4070
(831) 454-2160 FAX (831) 454-2385 TDD (831) 454-2123

TRAFFIC AND ENGINEERING REPORT

JUNE 2006



County of Santa Cruz

DEPARTMENT OF PUBLIC WORKS

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SUBJECT: TRAFFIC AND ENGINEERING REPORT JUNE 2006

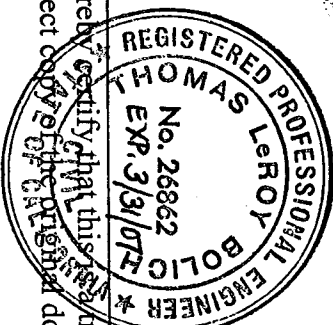
To Whom It May Concern:

This traffic and engineering report was prepared in accordance with Vehicle Code Section 40803 to allow the use of radar for speed enforcement purposes. The recommended safe speeds were determined utilizing the prevailing 85th percentile speeds combined with traffic engineering judgment to match existing conditions with the traffic safety needs of the community. Accident statistics indicate that unsafe speed is the highest safety primary collision factor on roadways, and adherence to safe speeds should result in a substantial reduction in vehicle accidents.

Yours truly,



THOMAS L. BOLICH
Director of Public Works



I hereby certify that this is a true and correct copy of the original document.

Date 8/1/08

JSD:mh

Attachments

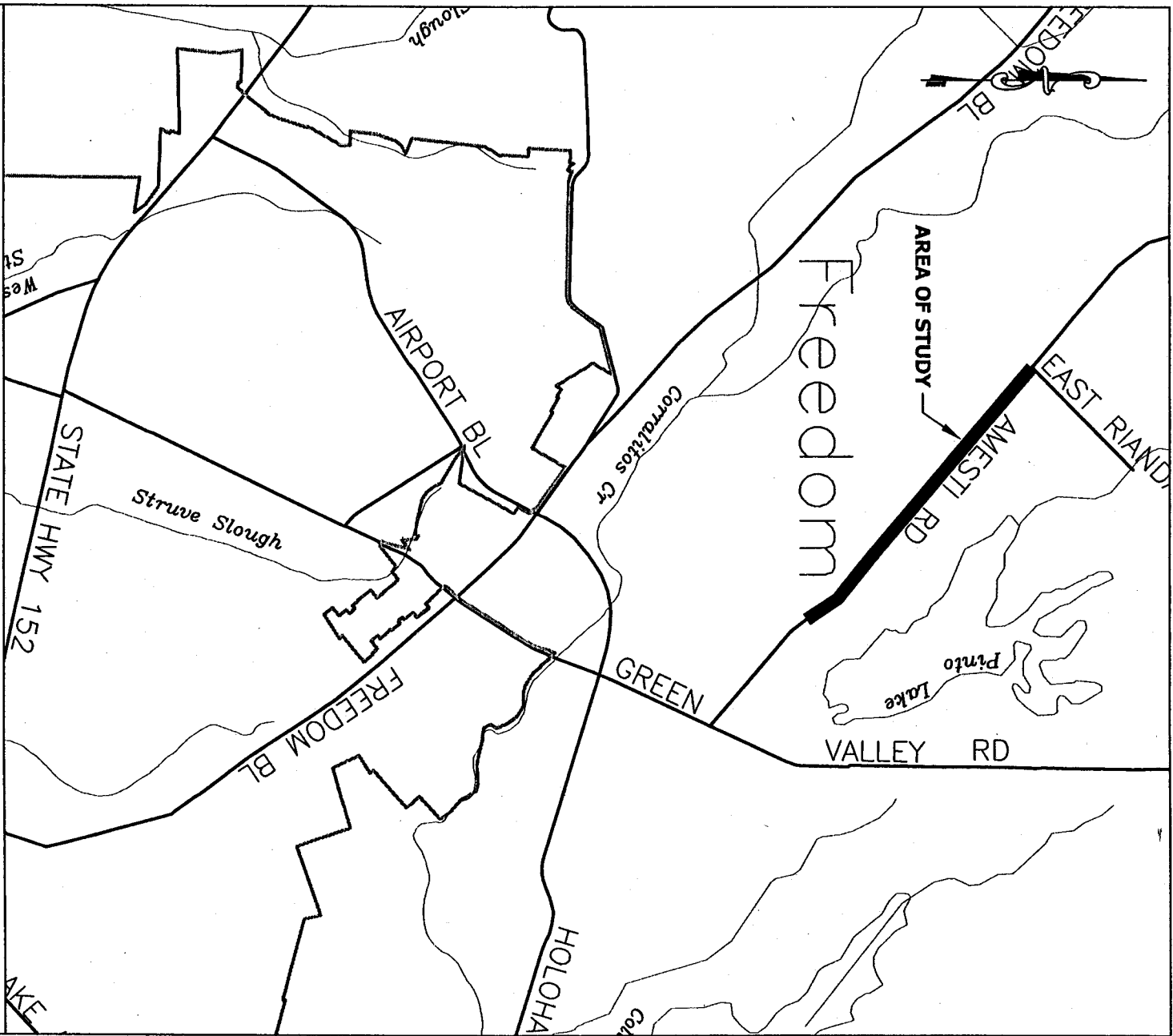
trafficeprmh

TRAFFIC AND ENGINEERING REPORT

June, 2006

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**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
AMESTI ROAD
0.4 MILES NORTH OF GREEN VALLEY ROAD TO EAST RIANDA ROAD**

TRAFFIC AND ENGINEERING REPORT

JUNE 2006

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Arnesi Road from 0.4 miles northwesterly of Green Valley Road to East Rianda Road (Speed Data collected at Hawthorne)

PREVAILING SPEED DATA:

The existing posted speed limit is 40 MPH and is radar enforced.

The prevailing speeds are:

Direction	Westbound	Eastbound
85 th Percentile	47 mph	44 mph
Pace Speed	36-46 mph	36-46 mph
Average Speed	40.70 mph	39.38 mph

ANALYSIS:

The prevailing 85th percentile speeds are 47 MPH and 44 MPH depending on the direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 45 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the Manual on Uniform Traffic Control Devices 2003 California Supplement indicates a further reduction of five miles per hour to 40 MPH. The factors justifying a further reduction are many private roads and driveways, bus stops, bicycle traffic without bike lanes and pedestrian traffic without sidewalks or shoulders. It is recommended that the existing 40 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

Route: Amesiti Road
From: .4 m. W. of Green Valley Rd
To: East Rianda Road
Direction: Westbound
Weather: Overcast
Posted Speed: 40
Begin time: 10:35
End time: 11:24

CRITICAL SPEED
AVERAGE SPEED
MEDIAN SPEED
STANDARD DEVIATION
PACE RANGE
PERCENTAGE IN PACE
TOTAL # OF AUTOS

47
 40.70
 41.0
 6.27
 36 - 46
 66.0%
 50

<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
55	3	100.0%
54	0	94.0%
53	0	94.0%
52	0	94.0%
51	0	94.0%
50	0	94.0%
49	1	92.0%
48	2	88.0%
47	2	84.0%
46	1	82.0%
45	4	74.0%
44	1	68.0%
43	2	60.0%
42	4	48.0%
41	6	38.0%
40	5	32.0%
39	3	30.0%
38	1	20.0%
37	5	16.0%
36	2	12.0%
35	2	10.0%
34	1	10.0%
33	0	10.0%
32	0	10.0%
31	0	10.0%
30	1	8.0%
29	1	2.0%
28	1	0.0%
27	0	0.0%

RADAR SPEED SURVEY

Route: Arnessti Road
From: East Rianda Road
To: 4 m. W. of Green Valley Rd
Direction: Eastbound
Weather: Overcast
Posted Speed: 40
Begin time: 10:35
End time: 11:40

CRITICAL SPEED
AVERAGE SPEED
MEDIAN SPEED
STANDARD DEVIATION
PAGE RANGE
PERCENTAGE IN PACE
TOTAL # OF AUTOS

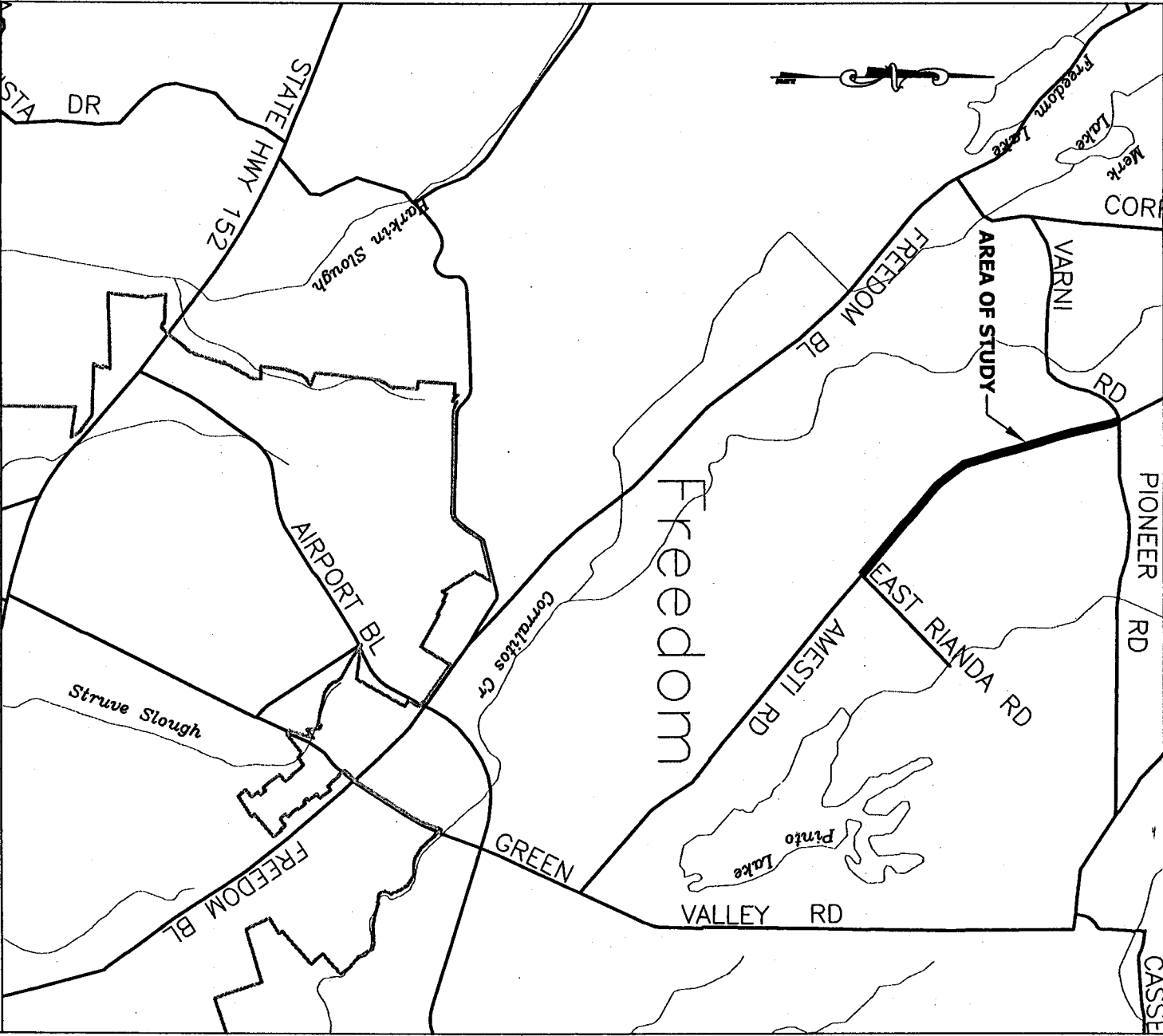
44
 39.38
 40.5
 5.42
 36 - 46
 84.0%
 50

MPH	# of Vehicles	Percentage
55	1	100.0%
54	0	98.0%
53	0	98.0%
52	0	98.0%
51	0	98.0%
50	0	98.0%
49	0	98.0%
48	0	98.0%
47	0	98.0%
46	0	98.0%
45	5	98.0%
44	2	88.0%
43	4	84.0%
42	8	76.0%
41	5	60.0%
40	3	50.0%
39	5	44.0%
38	1	34.0%
37	5	32.0%
36	4	22.0%
35	0	14.0%
34	0	14.0%
33	2	14.0%
32	0	10.0%
31	2	10.0%
30	0	6.0%
29	1	6.0%
28	1	4.0%
27	0	2.0%
26	0	2.0%
25	0	2.0%
24	0	2.0%
23	0	2.0%
22	0	2.0%
21	1	2.0%
20	0	0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION Highway 1 Buena Vista 25 (44 TO 2140506d) BY RR
 ROAD NO 2608 DATE 4/26 DAY Tuesday BEGIN 10:35 END 11:05
 POSTED SPEED 40 MPH WEATHER overcast
 NUMBER OF LANES 2 GRADE 6% CALIBRATED yes
 NUMBER OF VEHICLES

MPH	DIRECTION	TOTAL OF EACH SPEED	DIRECTION	TOTAL OF EACH SPEED	
	10:35 11:24 WESTBOUND		TO VARI		10:35 TO 11:05 EASTBOUND
55+		3		1	
54					
53					
52					
51					
50					
49		1			
48		2			
47		2			
46		1			
45		4		1	
44		1			
43		2		2	
42		4		5	
41		6		5	
40		4		5	
39		2		5	
38		1		1	
37		5		4	
36		2		4	
35		2			
34		1			
33				2	
32					
31				2	
30		1			
29		3		1	
28		1		1	
27					
26					
25					
24					
23					
22					
21				1	
20-					
TOTAL		50	TOTAL		50



SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
AMESTI ROAD
EAST RIANDA RD TO VARNI RD

TRAFFIC AND ENGINEERING REPORT
JUNE 2006

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Amesti Road from East Rianda Road to Varni Road (Speed Data collected at Linden)

PREVAILING SPEED DATA:

The existing posted speed limit is 35 MPH and is radar enforced.

The prevailing speeds are:

Direction	Westbound	Eastbound
85 th Percentile	41 mph	44 mph
Pace Speed	32-42 mph	33-43 mph
Average Speed	35.66 mph	36.8 mph

ANALYSIS:

The prevailing 85th percentile speeds are 41 MPH and 44 MPH depending on the direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 40 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the Manual on Uniform Traffic Control Devices 2003 California Supplement indicates a further reduction of five miles per hour to 35 MPH. The factors justifying a further reduction are a residential area with many intersections, private roads and driveways, bus stops, bicycle traffic without bike lanes and pedestrian traffic without sidewalks or shoulders. It is recommended that the existing 35 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

Route: Amessti Road
From: East Rianda Rd
To: Varni Road
Direction: Westbound
Weather: Sunny
Posted Speed: 35
Begin time: 12:36
End time: 1:19

	<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
	48	0	100.0%
	47	1	100.0%
	46	0	98.0%
	45	0	98.0%
	44	2	98.0%
	43	2	94.0%
	42	1	90.0%
	41	4	88.0%
	40	3	80.0%
	39	2	74.0%
	38	3	70.0%
	37	4	64.0%
	36	5	56.0%
	35	3	46.0%
	34	4	40.0%
	33	3	32.0%
	32	3	26.0%
	31	3	20.0%
	30	0	14.0%
	29	3	14.0%
	28	0	8.0%
	27	0	8.0%
	26	2	8.0%
	25	0	4.0%
	24	2	4.0%
	23	0	0.0%

CRITICAL SPEED 41
AVERAGE SPEED 35.66
MEDIAN SPEED 36.0
STANDARD DEVIATION 5.27
PAGE RANGE 32 - 42
PERCENTAGE IN PACE 68.0%
TOTAL # OF AUTOS 50

RADAR SPEED SURVEY

Route: Amessti Road
From: Varri Road
To: East Rianda Rd
Direction: Eastbound
Weather: Sunny
Posted Speed: 35
Begin time: 12:36
End time: 1:46

CRITICAL SPEED
AVERAGE SPEED
MEDIAN SPEED
STANDARD DEVIATION
PAGE RANGE
PERCENTAGE IN PACE
TOTAL # OF AUTOS

<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
48	1	100.0%
47	0	98.0%
46	0	98.0%
45	3	98.0%
44	4	92.0%
43	0	84.0%
42	4	84.0%
41	1	76.0%
40	3	74.0%
39	3	68.0%
38	1	62.0%
37	7	60.0%
36	5	46.0%
35	3	36.0%
34	3	30.0%
33	3	24.0%
32	1	18.0%
31	0	16.0%
30	1	16.0%
29	1	14.0%
28	1	12.0%
27	3	10.0%
26	2	4.0%
25		0.0%
24		0.0%

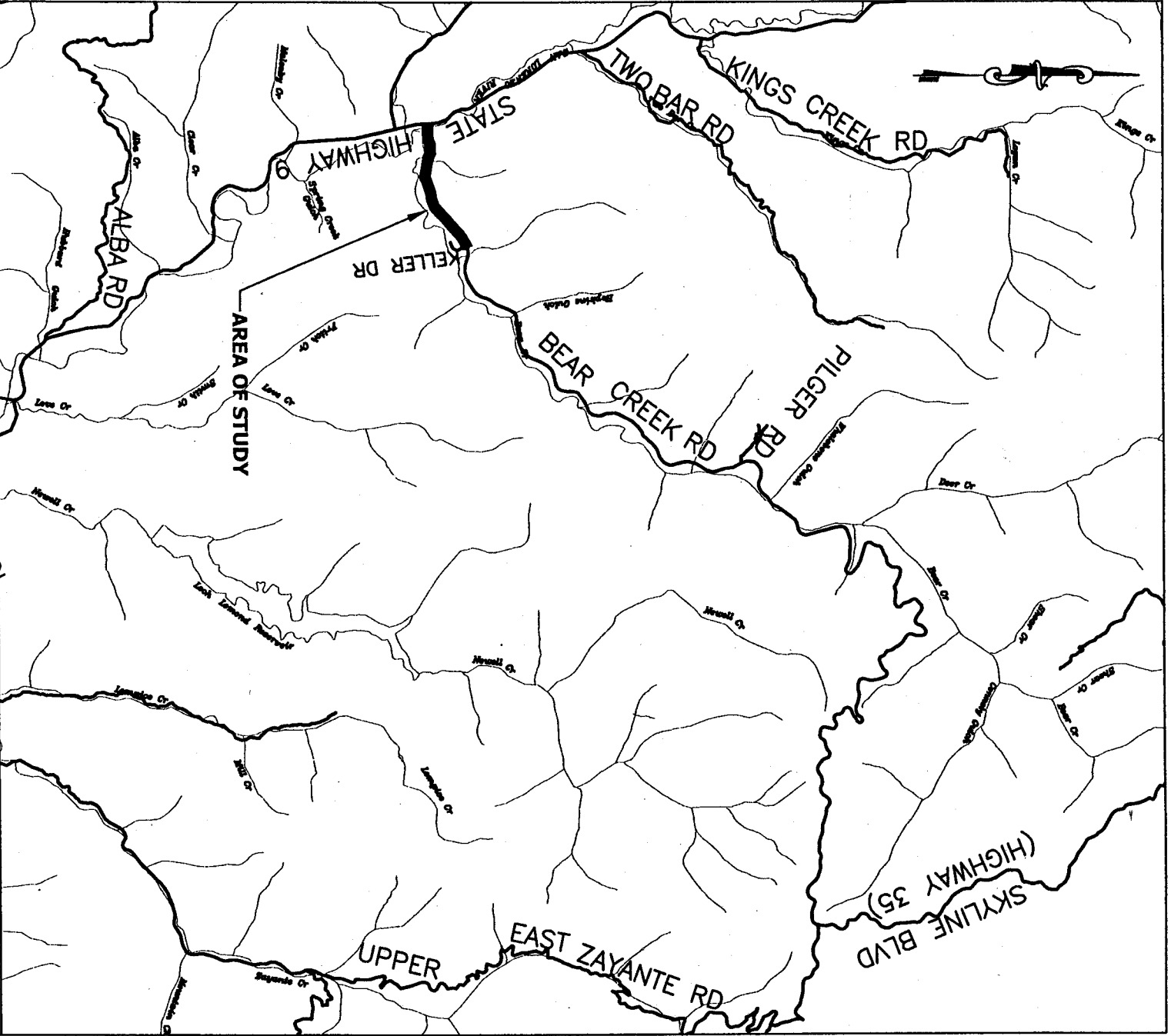
44
 36.80
 37.0
 5.56
 33 - 43
 66.0%
 50

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

REGISTRATION - 425

LOCATION AVENUE 1 ROAD - GREEN BY _____
 ROAD NO 2608 DATE 4/12 DAY Tuesday BEGIN 12:30 END _____
 POSTED SPEED _____ 35 MPH WEATHER clear & sunny
 NUMBER OF LANES 2 GRADE 4 % CALIBRATED 4/5

MPH	DIRECTION <i>(2:30 to 1:19) TO WEST</i>	TOTAL OF EACH SPEED	DIRECTION <i>12:30 - 1:46 TO GREEN VALLEY</i>	TOTAL OF EACH SPEED
55+				
54				
53				
52				
51				
50				
49				
48				
47		1		1
46				
45			111	3
44		2	1111	4
43		2	1111	4
42		1		1
41		2		2
40		3	111	3
39		2	111	3
38		3		3
37		4	1111	4
36		5	1111	5
35		3	111	3
34		4	111	4
33		3	111	3
32		3		3
31		3		3
30				
29		3		3
28				
27			111	3
26		2	11	2
25				
24		2		2
23				
22				
21				
20-				
TOTAL		50		50



SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
BEAR CREEK ROAD
HIGHWAY 9 TO KELLER DRIVE

TRAFFIC AND ENGINEERING REPORT
JUNE 2006

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Bear Creek Road from Highway 9 to Keller Drive (Speed Data collected at the Huckleberry Lane intersection)

PREVAILING SPEED DATA:

The existing speed limit is 30 MPH and is radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	35 mph	38 mph
Pace Speed	28-38 mph	28-38 mph
Average Speed	32.2 mph	33.5 mph

ANALYSIS:

The prevailing 85th percentile speeds are 35 MPH and 38 MPH depending on the direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 35 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the Manual on Uniform Traffic Control Devices 2003 California Supplement indicates a further reduction of five miles per hour to 30 MPH. The factors justifying a further reduction are an accident record, safe stopping sight distance, numerous driveways, commute route, major arterial, intersection configurations and shoulder conditions with school children and other pedestrian traffic in the roadway without sidewalks. It is recommended that the existing 30 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

Route: Bear Creek Road
From: Highway 9
To: Keller Drive
Direction: Northbound
Weather: Sunny
Posted Speed: 30mph
Begin time: 10:56
End time: 11:35

CRITICAL SPEED
AVERAGE SPEED
MEDIAN SPEED
STANDARD DEVIATION
PAGE RANGE
PERCENTAGE IN PACE
TOTAL # OF AUTOS

35
 32.24
 32.0
 2.77
 28 - 38
 92.0%
 50

<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
38	2	100.0%
37	2	96.0%
36	2	92.0%
35	2	88.0%
34	10	84.0%
33	6	64.0%
32	6	52.0%
31	5	40.0%
30	8	30.0%
29	1	14.0%
28	4	12.0%
27	2	4.0%
26	0	0.0%
25	0	0.0%
24	0	0.0%
23	0	0.0%
22	0	0.0%
21	0	0.0%
20	0	0.0%
19	0	0.0%
18	0	0.0%
17	0	0.0%

RADAR SPEED SURVEY

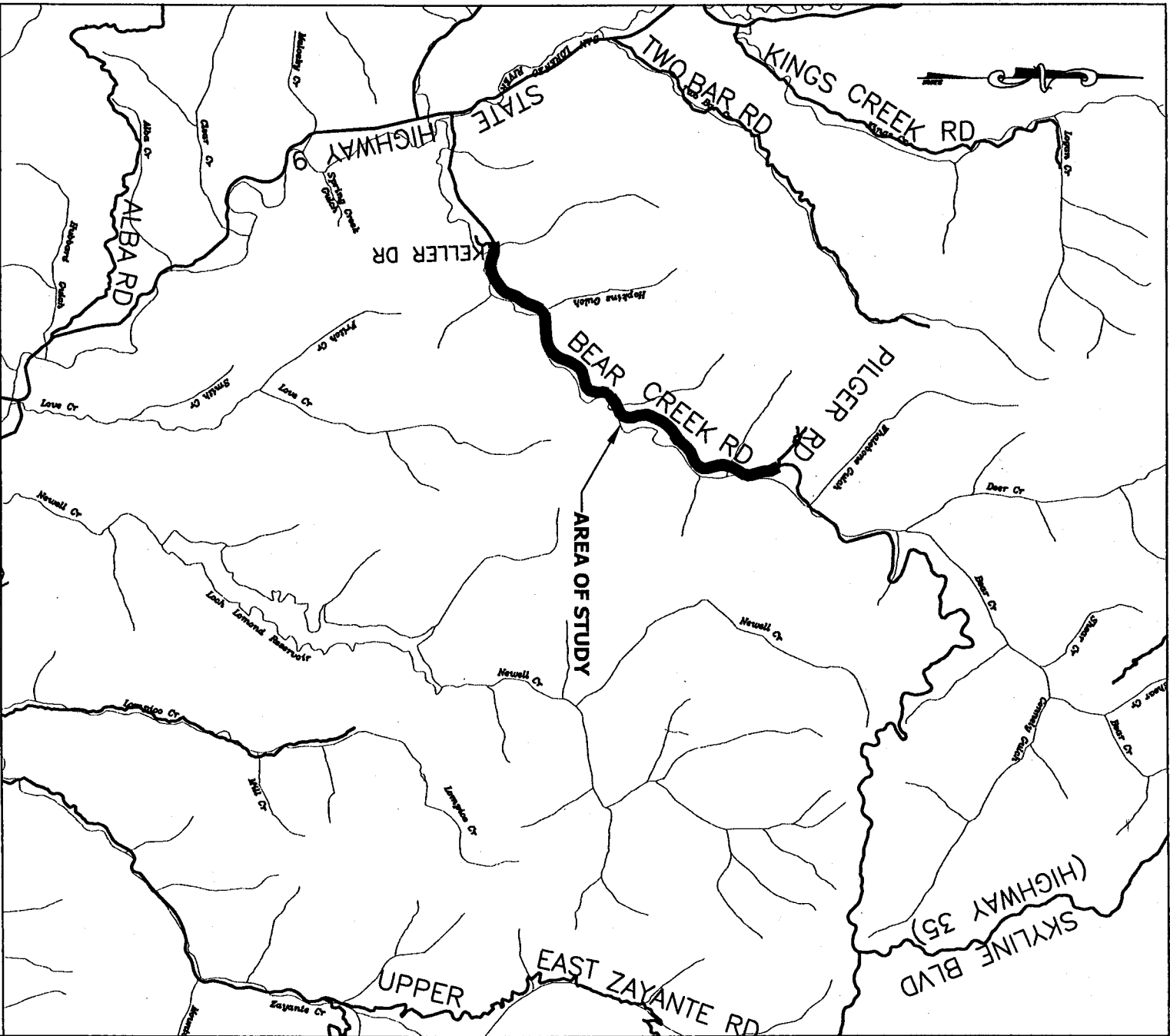
Route: Bear Creek Road
From: Keller Drive
To: Highway 9
Direction: Southbound
Weather: Sunny
Posted Speed: 30mph
Begin time: 10:56
End time: 11:35

	<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
	39	2	100.0%
	38	3	96.0%
	37	3	90.0%
	36	5	84.0%
	35	7	74.0%
	34	6	60.0%
	33	3	48.0%
	32	9	42.0%
	31	2	24.0%
	30	5	20.0%
	29	5	10.0%
	28	0	0.0%
	27	0	0.0%
	26	0	0.0%
	25	0	0.0%
	24	0	0.0%
	23	0	0.0%
	22	0	0.0%
	21	0	0.0%
	20	0	0.0%
	19	0	0.0%
	18	0	0.0%
CRITICAL SPEED	38		
AVERAGE SPEED	33.52		
MEDIAN SPEED	34.0		
STANDARD DEVIATION	2.87		
PAGE RANGE	28 - 38		
PERCENTAGE IN PACE	90.0%		
TOTAL # OF AUTOS	50		

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION Bear Creek Rd @ Huckleberry Ln BY TN
 ROAD NO 33030 DATE 5/11/05 DAY Wednesday BEGIN 10:56 END 11:35
 POSTED SPEED 30 MPH WEATHER Sunny
 NUMBER OF LANES 2 GRADE <10% CALIBRATED

MPH	DIRECTION	NUMBER OF VEHICLES		TOTAL OF EACH SPEED
		TOTAL OF EACH SPEED	DIRECTION	
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48				
47				
46				
45				
44				
43				
42				
41				
40				
39		2		
38		3		2
37		3		2
36		5		2
35		7		2
34		6		2
33		3		1
32		9		5
31		2		5
30		5		8
29		5		1
28				4
27				2
26				
25				
24				
23				
22				
21				
20-				
TOTAL		50		50



SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
BEAR CREEK ROAD
KELLER DRIVE TO PILGER ROAD

TRAFFIC AND ENGINEERING REPORT
JUNE 2006

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Bear Creek Road from Keller Drive to Pilger Road (Speed Data collected south of Pilger Road intersection)

PREVAILING SPEED DATA:

The existing speed limit is 40 MPH and is radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	46 mph	46 mph
Pace Speed	36-46 mph	37-47 mph
Average Speed	42.3 mph	42 mph

ANALYSIS:

The prevailing 85th percentile speeds are 46 MPH in both directions of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 45 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the Manual on Uniform Traffic Control Devices 2003 California Supplement indicates a further reduction of five miles per hour to 40 MPH. The factors justifying a further reduction are safe stopping sight distance, numerous driveways, commute route, major arterial, intersection configurations and shoulder conditions with pedestrian traffic in the roadway without sidewalks. It is recommended that the existing 40 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

Route: Bear Creek Road
From: Keller Drive
To: Pilger Road
Direction: Northbound
Weather: Sunny
Posted Speed: 40mph
Begin time: 11:40
End time: 12:45

CRITICAL SPEED
AVERAGE SPEED
MEDIAN SPEED
STANDARD DEVIATION
PAGE RANGE
PERCENTAGE IN PACE
TOTAL # OF AUTOS

46
 42.28
 43.0
 4.19
 36 - 46
 82.0%
 50

MPH	# of Vehicles	Percentage
53	1	100.0%
52	0	98.0%
51	0	98.0%
50	1	98.0%
49	2	96.0%
48	1	92.0%
47	1	90.0%
46	2	88.0%
45	5	84.0%
44	10	74.0%
43	5	54.0%
42	4	44.0%
41	2	36.0%
40	2	32.0%
39	1	28.0%
38	4	26.0%
37	2	18.0%
36	6	14.0%
35	1	2.0%
34	0	0.0%
33	0	0.0%
32	0	0.0%

RADAR SPEED SURVEY

Route: Bear Creek Road
From: Pilger Road
To: Keller Drive
Direction: Southbound
Weather: Sunny
Posted Speed: 40mph
Begin time: 11:40
End time: 12:45

	<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
	55	1	100.0%
	54	2	98.0%
	53	0	94.0%
	52	0	94.0%
	51	0	94.0%
	50	1	94.0%
	49	0	92.0%
	48	0	92.0%
	47	0	92.0%
	46	5	92.0%
	45	2	82.0%
	44	4	78.0%
	43	8	70.0%
	42	6	54.0%
	41	3	42.0%
	40	4	36.0%
	39	3	28.0%
	38	4	22.0%
	37	2	14.0%
	36	0	10.0%
	35	2	10.0%
	34	1	6.0%
	33	1	4.0%
	32	1	2.0%

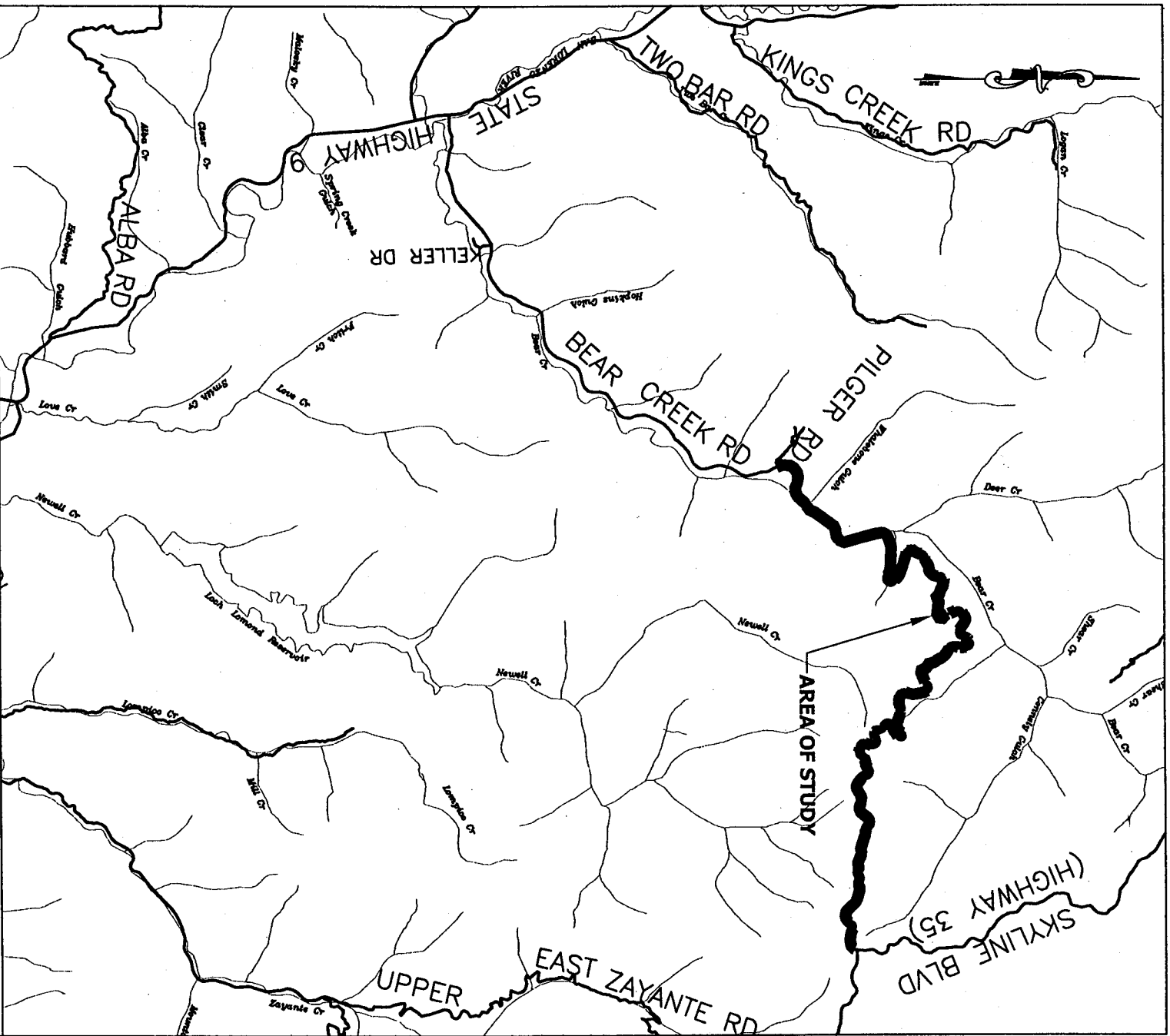
CRITICAL SPEED
AVERAGE SPEED 46
MEDIAN SPEED 42.0
STANDARD DEVIATION 4.84
PACE RANGE 37 - 47
PERCENTAGE IN PACE 82.0%
TOTAL # OF AUTOS 50

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION Bear Creek Rd / South of Pilger Rd BY TN
 ROAD NO 33030 DATE 5/11/05 DAY Wed. BEGIN 11:40 END 12:45
 POSTED SPEED 40 MPH WEATHER Sunny
 NUMBER OF LANES 2 GRADE < 10% CALIBRATED ✓

NUMBER OF VEHICLES

MPH	DIRECTION	TOTAL OF EACH SPEED	DIRECTION	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55		1		
54		2		
53			1	1
52				
51				
50		1	1	1
49			11	2
48			1	1
47			1	1
46		5	11	2
45		2	11	5
44		4	11	10
43		8	11	5
42		6	11	4
41		3	11	2
40		4	11	2
39		3	1	1
38		4	11	4
37		2	11	2
36			11	6
35		2	1	1
34		1		
33		1		
32		1		
31				
30				
29				
28				
27				
26				
25				
24				
23				
22				
21				
20-				
TOTAL		50	50	50



SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
BEAR CREEK ROAD
PILGER ROAD TO HIGHWAY 35

TRAFFIC AND ENGINEERING REPORT
JUNE 2006

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Bear Creek Road from Pilger Road to Highway 35 (Speed Data collected at mile post 7.29)

PREVAILING SPEED DATA:

The existing speed limit is 35 MPH and is radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	39 mph	40 mph
Pace Speed	31-41 mph	32-42 mph
Average Speed	36.1 mph	35.8 mph

ANALYSIS:

The prevailing 85th percentile speeds are 39 MPH and 40 MPH depending on the direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 40 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the Manual on Uniform Traffic Control Devices 2003 California Supplement indicates a further reduction of five miles per hour to 35 MPH. The factors justifying a further reduction are accident record, safe stopping sight distance, shoulder conditions, profile conditions, hairpin turns, numerous private roads and driveways, major arterial, and a commute route. It is recommended that the existing 35 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

Route: Bear Creek Road
From: Pilger Road
To: Highway 35
Direction: Northbound
Weather: Sunny
Posted Speed: 35mph
Begin time: 12:52
End time: 2:05

CRITICAL SPEED
AVERAGE SPEED
MEDIAN SPEED
STANDARD DEVIATION
PAGE RANGE
PERCENTAGE IN PACE
TOTAL # OF AUTOS

39
 36.14
 35.0
 3.82
 31 - 41
 90.0%
 50

<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
46	1	100.0%
45	0	98.0%
44	3	98.0%
43	0	92.0%
42	0	92.0%
41	0	92.0%
40	3	92.0%
39	10	86.0%
38	1	66.0%
37	5	64.0%
36	1	54.0%
35	5	52.0%
34	6	42.0%
33	8	30.0%
32	1	14.0%
31	5	12.0%
30	1	2.0%
29	0	0.0%
28	0	0.0%
27	0	0.0%
26	0	0.0%
25	0	0.0%

RADAR SPEED SURVEY

Route: Bear Creek Road
From: Highway 35
To: Pilger Road
Direction: Southbound
Weather: Sunny
Posted Speed: 35mph
Begin time: 12:52
End time: 2:05

CRITICAL SPEED
AVERAGE SPEED
MEDIAN SPEED
STANDARD DEVIATION
PAGE RANGE
PERCENTAGE IN PACE
TOTAL # OF AUTOS

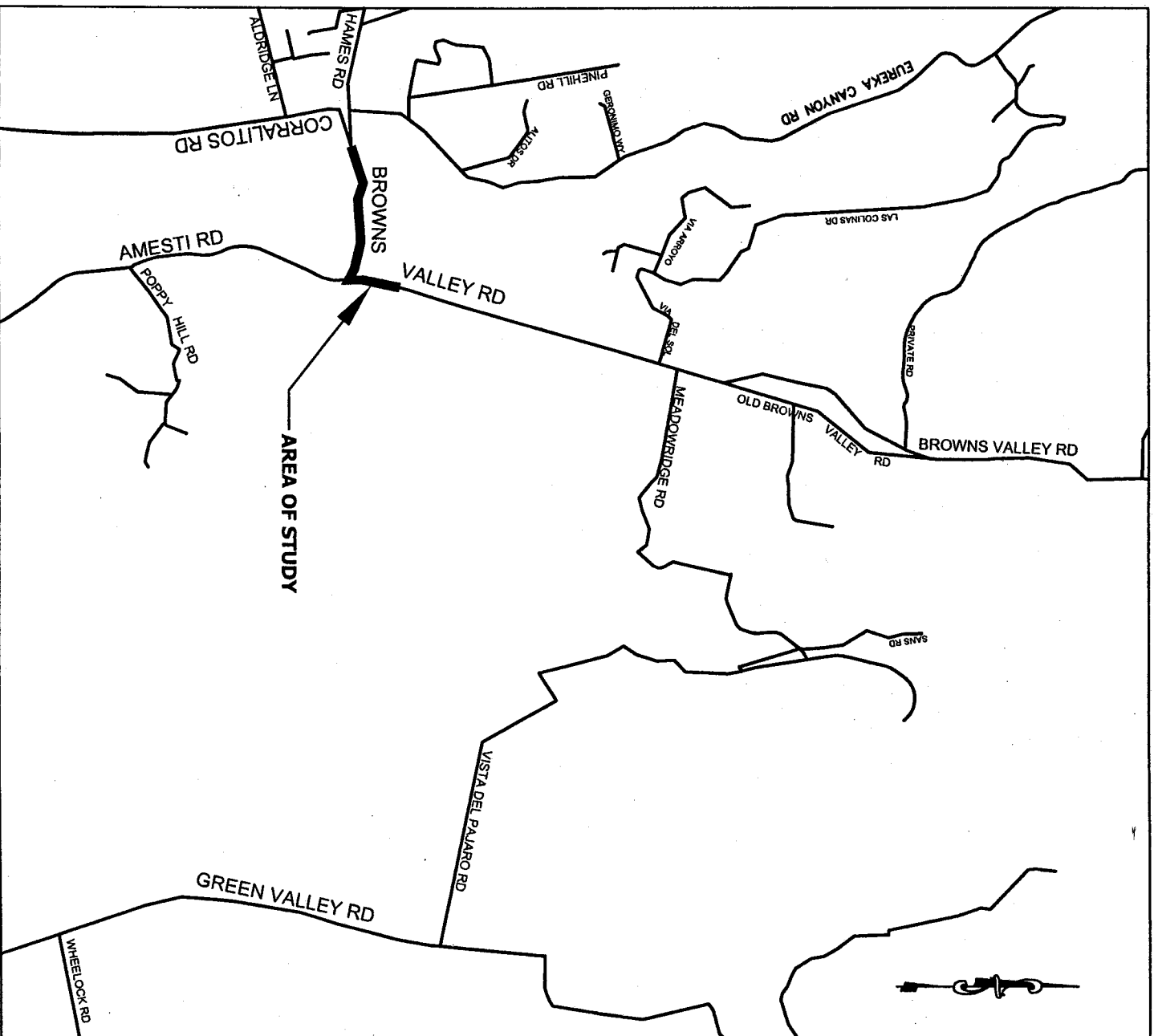
<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
44	1	100.0%
43	0	98.0%
42	1	98.0%
41	2	96.0%
40	4	92.0%
39	1	84.0%
38	2	82.0%
37	7	78.0%
36	12	64.0%
35	4	40.0%
34	6	32.0%
33	2	20.0%
32	4	16.0%
31	1	8.0%
30	1	6.0%
29	2	4.0%
28	0	0.0%
27	0	0.0%
26	0	0.0%
25	0	0.0%
24	0	0.0%
23	0	0.0%

40
 35.82
 36.0
 3.21
 32 - 42
 88.0%
 50

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION Bear Creek Rd @ PM 7.29 BY TN
 ROAD NO 33030 DATE 5/11/05 DAY Wed. BEGIN 12:52 END 2:05
 POSTED SPEED 35 MPH WEATHER Sunny
 NUMBER OF LANES 2 GRADE ~10% CALIBRATED

		NUMBER OF VEHICLES	
MPH	DIRECTION	TOTAL OF EACH SPEED	TOTAL OF EACH SPEED
60			
59			
58			
57			
56			
55			
54			
53			
52			
51			
50			
49			
48			
47			
46			1
45			
44		1	3
43			
42		1	
41		2	
40		4	3
39		1	10
38		2	1
37		7	5
36		12	1
35		4	5
34		6	6
33		2	8
32		4	1
31		1	5
30		1	1
29		2	
28			
27			
26			
25			
24			
23			
22			
21			
20-			
TOTAL		50	TOTAL 50



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
 RADAR SPEED SURVEY
 BROWNS VALLEY RD
 CORRALITOS RD TO 1600' N. OF AMESTI RD**

TRAFFIC AND ENGINEERING REPORT
JUNE 2006

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Browns Valley Road from Corralitos Road to 1600' north of Arnessti Road (Speed Data collected approximately 400' north of Arnessti Road.)

PREVAILING SPEED DATA:

The existing speed limit is 25 MPH and is not radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	36 mph	38 mph
Pace Speed	27-37 mph	29-39 mph
Average Speed	31.5 mph	33.9 mph

ANALYSIS:

The prevailing 85th percentile speeds are 36 MPH and 38 MPH depending on the direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 35 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the Manual on Uniform Traffic Control Devices 2003 California Supplement indicates a further reduction of five miles per hour to 30 MPH. The factors justifying a further reduction are safe stopping sight distance, numerous driveways, intersection configurations and shoulder conditions with pedestrian traffic in the roadway without sidewalks. It is recommended that the existing 25 MPH speed limit be increased to 30 MPH with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

Route: Browns Valley Road
From: Corralitos Road
To: 1600' north of Amesti Road
Direction: Northbound
Weather: Light Clouds
Posted Speed: 25
Begin time: 12:30
End time: 1:20

CRITICAL SPEED
AVERAGE SPEED
MEDIAN SPEED
STANDARD DEVIATION
PAGE RANGE
PERCENTAGE IN PACE
TOTAL # OF AUTOS

36
 31.46
 31.0
 4.74
 27 - 37
 78.0%
 50

MPH	# of Vehicles	Percentage
45	1	100.0%
44	0	98.0%
43	2	98.0%
42	1	94.0%
41	0	92.0%
40	0	92.0%
39	0	92.0%
38	2	92.0%
37	0	88.0%
36	2	88.0%
35	1	84.0%
34	3	82.0%
33	2	76.0%
32	4	72.0%
31	8	64.0%
30	7	48.0%
29	6	34.0%
28	4	22.0%
27	2	14.0%
26	0	10.0%
25	3	10.0%
24	2	4.0%

RADAR SPEED SURVEY

Route: Browns Valley Road
From: 1600' north of Amesti Road
To: Corralitos Road
Direction: Southbound
Weather: Light Clouds
Posted Speed: 25
Begin time: 12:30
End time: 1:20

	<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
	44	1	100.0%
	43	0	98.0%
	42	2	98.0%
	41	1	94.0%
	40	0	92.0%
	39	2	92.0%
	38	3	88.0%
	37	2	82.0%
	36	10	78.0%
	35	3	58.0%
	34	1	52.0%
	33	5	50.0%
	32	4	40.0%
	31	6	32.0%
	30	1	20.0%
	29	3	18.0%
	28	2	12.0%
	27	3	8.0%
	26	1	2.0%
	25	0	0.0%
	24	0	0.0%
	23	0	0.0%

CRITICAL SPEED 38
AVERAGE SPEED 33.86
MEDIAN SPEED 33.5
STANDARD DEVIATION 4.25
PACE RANGE 29 - 39
PERCENTAGE IN PACE 76.0%
TOTAL # OF AUTOS 50

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

(400' N Awesti Rd)

LOCATION Erwin's Valley Rd / Corralitas Rd to 1600' N Awesti Rd BY TN
 ROAD NO 2609 DATE 12/7/05 DAY Wed BEGIN 12:30 END 1:20
 POSTED SPEED 25 mph WEATHER light clouds
 NUMBER OF LANES 2 GRADE 410% CALIBRATED

NUMBER OF VEHICLES

MPH	DIRECTION	TOTAL OF EACH SPEED	DIRECTION	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48				
47				
46				
45				
44		1		1
43			11	2
42		2		1
41		1		
40				
39	11	2		
38	111	3	11	2
37	11	2		
36	111 111	10	11	2
35	111	3	1	1
34	1	1	111	3
33	111	5	11	2
32	1111	4	1111	4
31	111 1	6	111 11	8
30	1	1	111 11	7
29	111	3	111 1	6
28	11	2	1111	4
27	111	3	11	2
26	1	1		
25			111	3
24			11	2
23				
22				
21				
20-				
TOTAL		50	TOTAL	50