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County of Santa Cruz

DEPARTMENT OF PUBLIC WORKS

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TRAFFIC AND ENGINEERING REPORT

MARCH 2008



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DEPARTMENT OF PUBLIC WORKS

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SUBJECT: TRAFFIC AND ENGINEERING REPORT MARCH 2008

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 single 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

Date

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

RR:lh

Attachments

trafficepmh

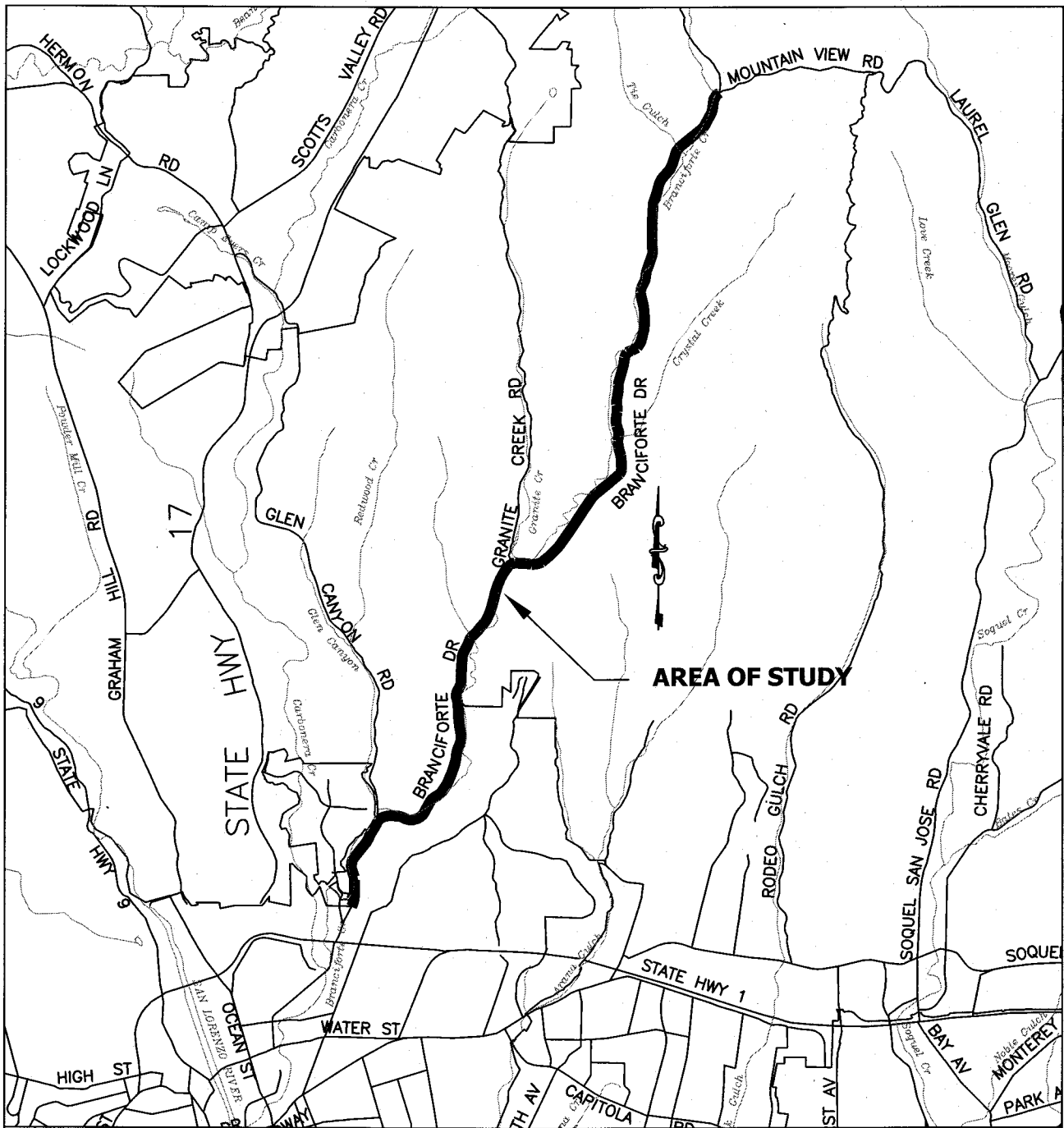
TRAFFIC AND ENGINEERING REPORT

March, 2008

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SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
BRANCIFORTE DRIVE
SANTA CRUZ CITY LIMITS TO MOUNTAIN VIEW ROAD

TRAFFIC AND ENGINEERING REPORT
MARCH 2008

PURPOSE:

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

LOCATION:

Branciforte Drive from Santa Cruz City Limits to Mill Road. (Speed Data collected 400 feet north of the city limits)

PREVAILING SPEED DATA:

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

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	43 mph	42 mph
Pace Speed	33-43 mph	32-42 mph
Average Speed	38.22 mph	37.28 mph

ANALYSIS:

The prevailing 85th percentile speeds are 42 MPH and 43 MPH depending on the directions 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 California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 35 MPH. The factors justifying a further reduction are safe stopping sight distance, high volume of traffic, and shoulder conditions with pedestrian traffic in the roadway without sidewalks. 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

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Branciforte Drive				
From:	Santa Cruz City limits	46	3	◆◆◆	100.0%
To:	Mill Road	45	4	◆◆◆◆	95.7%
Direction:	Northbound	44	3	◆◆◆	89.9%
Weather:	Cloudy	43	1	◆	85.5%
Posted Speed:	35 MPH	42	3	◆◆◆	84.1%
Begin time:	10:27 AM	41	8	◆◆◆◆◆◆◆◆	79.7%
End time:	11:00 AM	40	4	◆◆◆◆	68.1%
		39	8	◆◆◆◆◆◆◆◆	62.3%
		38	3	◆◆◆	50.7%
		37	5	◆◆◆◆◆	46.4%
		36	3	◆◆◆	39.1%
		35	10	◆◆◆◆◆◆◆◆◆◆	34.8%
		34	7	◆◆◆◆◆◆◆	20.3%
		33	3	◆◆◆	10.1%
		32	2	◆◆	5.8%
CRITICAL SPEED	43	31	1	◆	2.9%
AVERAGE SPEED	38.22	30	0		1.4%
MEDIAN SPEED	38.0	29	1	◆	1.4%
STANDARD DEVIATION	4.13	28	0		0.0%
PACE RANGE	33 - 43	27	0		0.0%
PERCENTAGE IN PACE	78.3%	26	0		0.0%
TOTAL # OF AUTOS	69	25	0		0.0%

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Branciforte Drive				
From:	Santa Cruz City limits	49	1	◆	100.0%
To:	Mill Road	48	1	◆	98.8%
Direction:	Southbound	47	0		97.5%
Weather:	Cloudy	46	1	◆	97.5%
Posted Speed:	35 MPH	45	2	◆◆	96.3%
Begin time:	10:27 AM	44	3	◆◆◆	93.8%
End time:	11:00 AM	43	2	◆◆	90.0%
		42	4	◆◆◆◆	87.5%
		41	5	◆◆◆◆◆	82.5%
		40	6	◆◆◆◆◆◆	76.3%
		39	6	◆◆◆◆◆◆	68.8%
		38	6	◆◆◆◆◆◆	61.3%
		37	5	◆◆◆◆◆	53.8%
		36	7	◆◆◆◆◆◆◆	47.5%
		35	8	◆◆◆◆◆◆◆◆	38.8%
CRITICAL SPEED	42	34	4	◆◆◆◆	28.8%
AVERAGE SPEED	37.28	33	8	◆◆◆◆◆◆◆◆	23.8%
MEDIAN SPEED	37.0	32	7	◆◆◆◆◆◆◆	13.8%
STANDARD DEVIATION	4.52	31	1	◆	5.0%
PACE RANGE	32 - 42	30	0		3.8%
PERCENTAGE IN PACE	77.5%	29	2	◆◆	3.8%
TOTAL # OF AUTOS	80	28	0		1.3%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION BLANCFORTE DR (400' FROM CITY LIMITS) BY JCC
 ROAD NO _____ DATE 5-25-07 DAY FRI BEGIN 1027 END 1100
 POSTED SPEED 35 WEATHER CLOUDY
 NUMBER OF LANES 2 GRADE 1 1/2 CALIBRATED

NUMBER OF VEHICLES

MPH	DIRECTION FROM GLEN	TOTAL OF EACH SPEED	DIRECTION TO GLEN	TOTAL OF EACH SPEED
	→ S		N ←	
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49		1		
48		1		
47		0		
46		1		3
45		2		4
44		3		3
43		2		1
42		4		3
41		5	 -	8
40		6	-	4
39		6	 -	8
38		6	-	3
37		5	 -	5
36		7	-	3
35		8	 - -	10
34		4	 -	7
33		8	-	3
32		7		2
31		1		1
30		0		0
29		2		1
28		0		
27		0		
26		1		
25				
24				
23				
22				
21				
20				
TOTAL		80	TOTAL 69	

TRAFFIC AND ENGINEERING REPORT
MARCH 2008

PURPOSE:

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

LOCATION:

Branciforte Drive from Mill Road to Mountain View Road. (Speed Data collected 1.4 miles north of Glen Canyon Road)

PREVAILING SPEED DATA:

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

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	40 mph	44 mph
Pace Speed	33-43 mph	33-43 mph
Average Speed	37 mph	38.97 mph

ANALYSIS:

The prevailing 85th percentile speeds are 40 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 California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 35 MPH. The factors justifying a further reduction are safe stopping sight distance, high volume of traffic, the adjacent City of Santa Cruz Delaveaga Park and the Happy Valley School, and shoulder conditions with pedestrian traffic in the roadway without sidewalks. 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

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Branciforte Drive				
From:	Mill Road	53	1	◆	100.0%
To:	Mountain View Road	52	0		98.1%
Direction:	Northbound	51	0		98.1%
Weather:	Sunny	50	0		98.1%
Posted Speed:	35 MPH	49	0		98.1%
Begin time:	11:29 AM	48	0		98.1%
End time:	12:29 PM	47	0		98.1%
		46	0		98.1%
		45	0		98.1%
		44	0		98.1%
		43	1	◆	98.1%
		42	2	◆◆	96.2%
		41	3	◆◆◆	92.3%
		40	7	◆◆◆◆◆◆◆	86.5%
		39	2	◆◆	73.1%
CRITICAL SPEED	40	38	7	◆◆◆◆◆◆◆	69.2%
AVERAGE SPEED	37.00	37	6	◆◆◆◆◆◆	55.8%
MEDIAN SPEED	37.0	36	4	◆◆◆◆	44.2%
STANDARD DEVIATION	4.03	35	9	◆◆◆◆◆◆◆◆◆	36.5%
PACE RANGE	33 - 43	34	1	◆	19.2%
PERCENTAGE IN PACE	84.6%	33	3	◆◆◆	17.3%
TOTAL # OF AUTOS	52	32	2	◆◆	11.5%
		31	1	◆	7.7%
		30	1	◆	5.8%
		29	2	◆◆	3.8%

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Branciforte Drive				
From:	Mill Road	57	1	◆	100.0%
To:	Mountain View Road	56	0		98.8%
Direction:	Southbound	55	0		98.8%
Weather:	Sunny	54	1	◆	98.8%
Posted Speed:	35 MPH	53	0		97.7%
Begin time:	11:29 AM	52	1	◆	97.7%
End time:	12:29 PM	51	0		96.5%
		50	2	◆◆	96.5%
		49	1	◆	94.2%
		48	1	◆	93.0%
		47	0		91.9%
		46	1	◆	91.9%
		45	3	◆◆◆	90.7%
		44	3	◆◆◆	87.2%
		43	3	◆◆◆	83.7%
CRITICAL SPEED	44	42	5	◆◆◆◆◆	80.2%
AVERAGE SPEED	38.97	41	7	◆◆◆◆◆◆◆	74.4%
MEDIAN SPEED	38.0	40	7	◆◆◆◆◆◆◆	66.3%
STANDARD DEVIATION	5.34	39	4	◆◆◆◆	58.1%
PACE RANGE	33 - 43	38	11	◆◆◆◆◆◆◆◆◆◆◆◆	53.5%
PERCENTAGE IN PACE	73.3%	37	3	◆◆◆	40.7%
TOTAL # OF AUTOS	86	36	9	◆◆◆◆◆◆◆◆◆	37.2%
		35	3	◆◆◆	26.7%
		34	8	◆◆◆◆◆◆◆◆	23.3%
		33	6	◆◆◆◆◆◆	14.0%
		32	4	◆◆◆◆	7.0%
		31	0		2.3%
		30	2	◆◆	2.3%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION BRANCIFORTE (1.4 MILES FROM GLEN CANYON) BY JGL

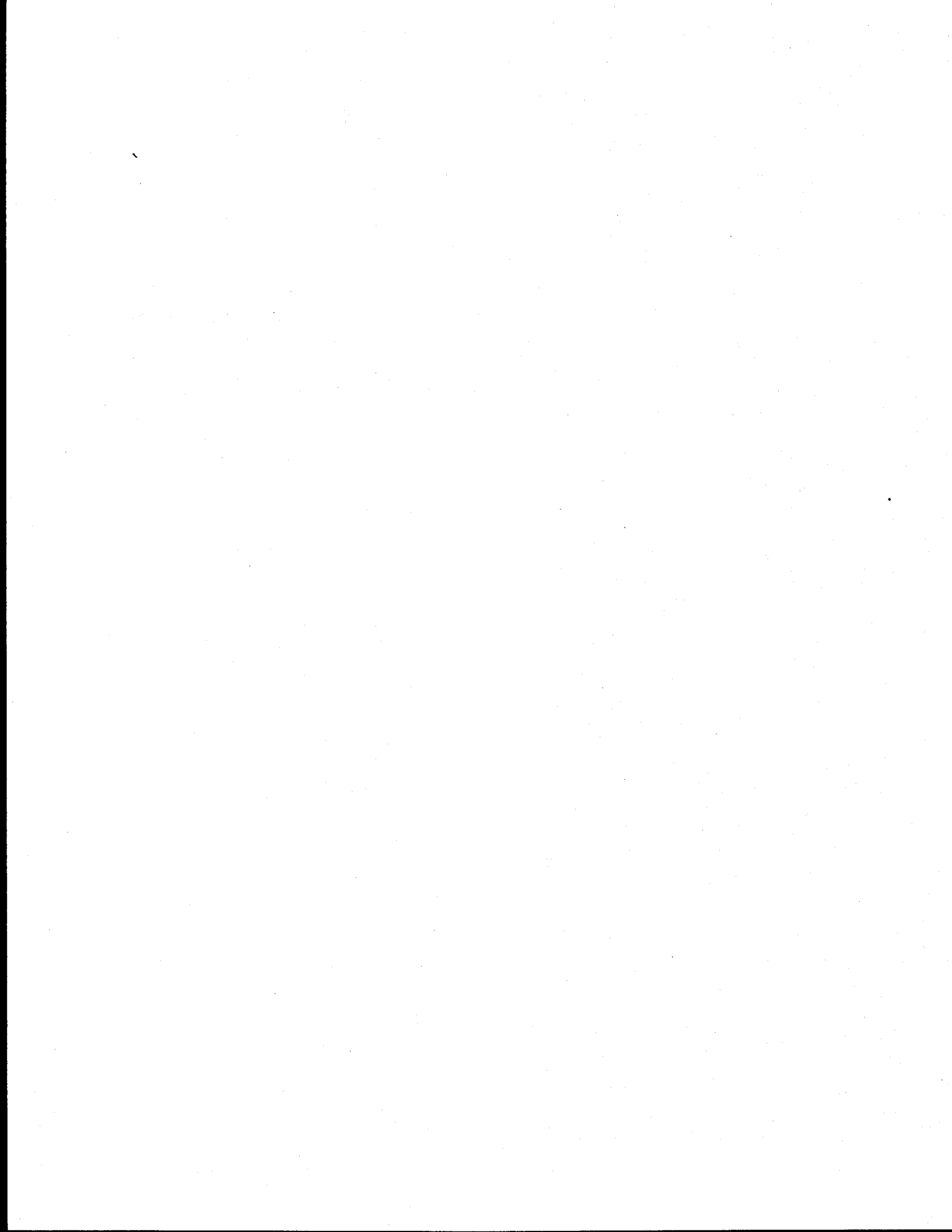
ROAD NO _____ DATE 12/14/07 DAY FRI BEGIN 11:29 END 12:29

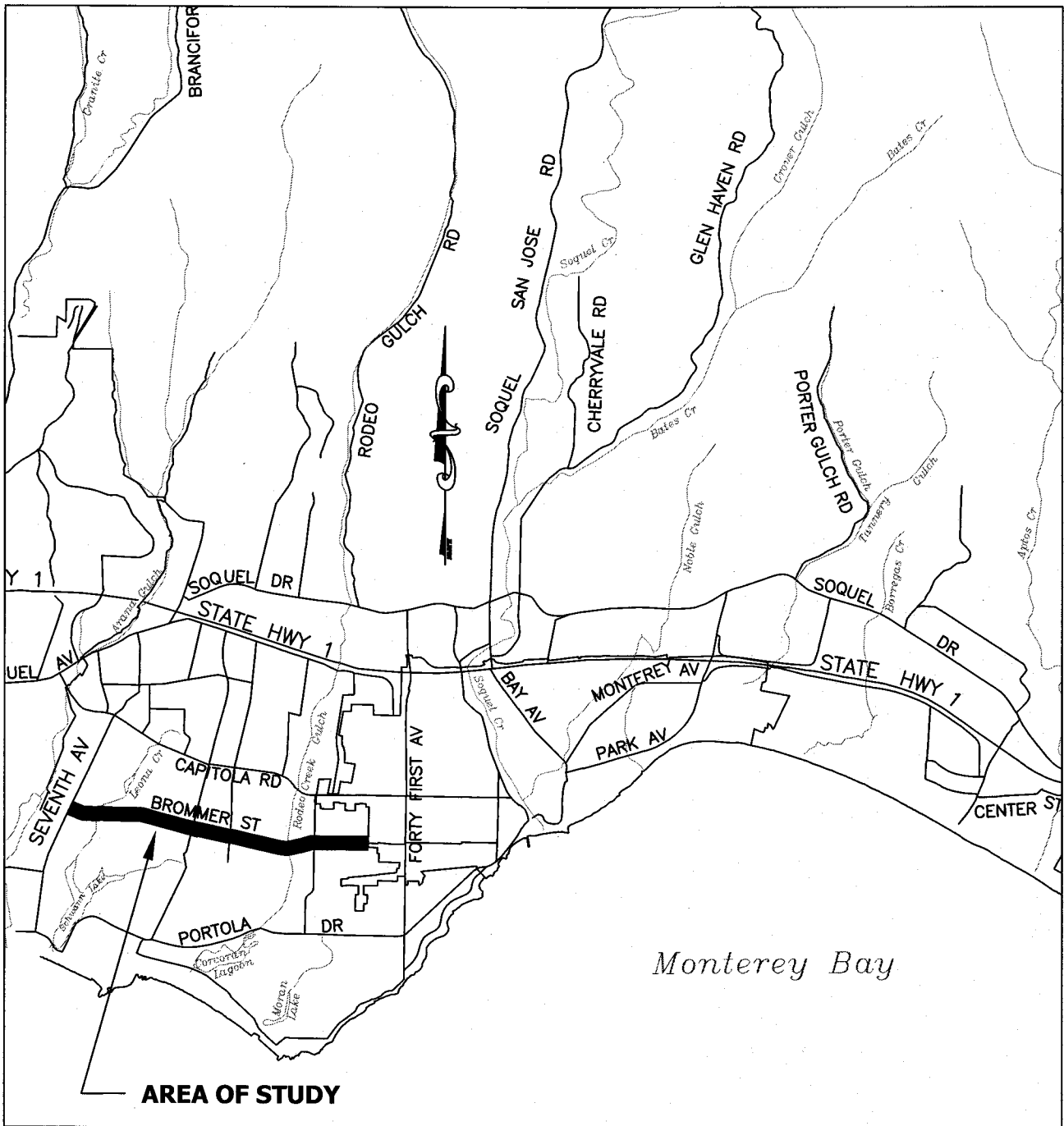
POSTED SPEED 35 WEATHER SUNNY

NUMBER OF LANES 2 GRADE 1% CALIBRATED

NUMBER OF VEHICLES

MPH	DIRECTION	TOTAL OF EACH SPEED	DIRECTION	TOTAL OF EACH SPEED
	→ S TO S.C. CITY		← N FROM S.C. CITY	
60				
59				
58				
57		1		
56				
55				
54		1		
53				1
52		1		
51				
50		2		
49		1		
48		1		
47				
46		1		
45		3		
44		3		
43		3		
42	 -	5		1
41	 -	7		2
40	 -	7	 -	3
39		4		7
38	 - -	11	 -	2
37		3	 -	7
36	 -	9	 -	6
35		3	 -	4
34	 -	9		9
33	 -	6		1
32		4		3
31				2
30		2		1
29				2
28				
27				
26				
25				
24				
23				
22				
21				
20				
TOTAL		86	TOTAL 52	





SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
BROMMER STREET
7th AVENUE TO THE CITY OF CAPITOLA

TRAFFIC AND ENGINEERING REPORT
MARCH 2008

PURPOSE:

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

LOCATION:

Brommer Street from 7th Avenue to the City of Capitola. (Speed Data collected between 17th Avenue and Chanticleer Avenue)

PREVAILING SPEED DATA:

The existing speed limit is 25 MPH and is radar enforced.

The prevailing speeds are:

Direction	Westbound	Eastbound
85 th Percentile	31 mph	31 mph
Pace Speed	25-35 mph	25-35 mph
Average Speed	28.78 mph	28.46 mph

ANALYSIS:

The prevailing 85th percentile speeds are 31 MPH in both directions of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 30 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 25 MPH. The factors justifying a further reduction are prima-facie residential and business district, high volume of traffic, adjacent county park and county maintenance yard, a route to and from area schools, and shoulder conditions with pedestrian traffic in the roadway without sidewalks. It is recommended that the existing 25 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Brommer Street				
From:	Seventh Avenue	35	2	◆◆	100.0%
To:	City of Capitola	34	2	◆◆	97.1%
Direction:	Eastbound	33	2	◆◆	94.2%
Weather:	Sunny	32	2	◆◆	91.3%
Posted Speed:	25 MPH	31	6	◆◆◆◆◆◆	88.4%
Begin time:	2:30 PM	30	7	◆◆◆◆◆◆◆	79.7%
End time:	3:05 PM	29	6	◆◆◆◆◆◆	69.6%
		28	15	◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆	60.9%
		27	12	◆◆◆◆◆◆◆◆◆◆◆◆◆◆	39.1%
		26	9	◆◆◆◆◆◆◆◆◆◆◆◆	21.7%
		25	4	◆◆◆◆◆	8.7%
		24	2	◆◆	2.9%
		23	0		0.0%
		22	0		0.0%
		21	0		0.0%
CRITICAL SPEED	31	20	0		0.0%
AVERAGE SPEED	28.46	19	0		0.0%
MEDIAN SPEED	28.0	18	0		0.0%
STANDARD DEVIATION	2.55	17	0		0.0%
PACE RANGE	25 - 35	16	0		0.0%
PERCENTAGE IN PACE	94.2%	15	0		0.0%
TOTAL # OF AUTOS	69				

RADAR SPEED SURVEY

Route: Brommer Street
From: Seventh Avenue
To: City of Capitola
Direction: Westbound
Weather: Sunny
Posted Speed: 25 MPH
Begin time: 2:30 PM
End time: 3:05 PM

<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
36	1	◆	100.0%
35	2	◆◆	98.4%
34	0		95.2%
33	3	◆◆◆	95.2%
32	2	◆◆	90.5%
31	4	◆◆◆◆	87.3%
30	10	◆◆◆◆◆◆◆◆◆◆	81.0%
29	9	◆◆◆◆◆◆◆◆◆	65.1%
28	12	◆◆◆◆◆◆◆◆◆◆◆◆	50.8%
27	9	◆◆◆◆◆◆◆◆◆	31.7%
26	5	◆◆◆◆◆	17.5%
25	6	◆◆◆◆◆◆	9.5%
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%
16	0		0.0%
15	0		0.0%

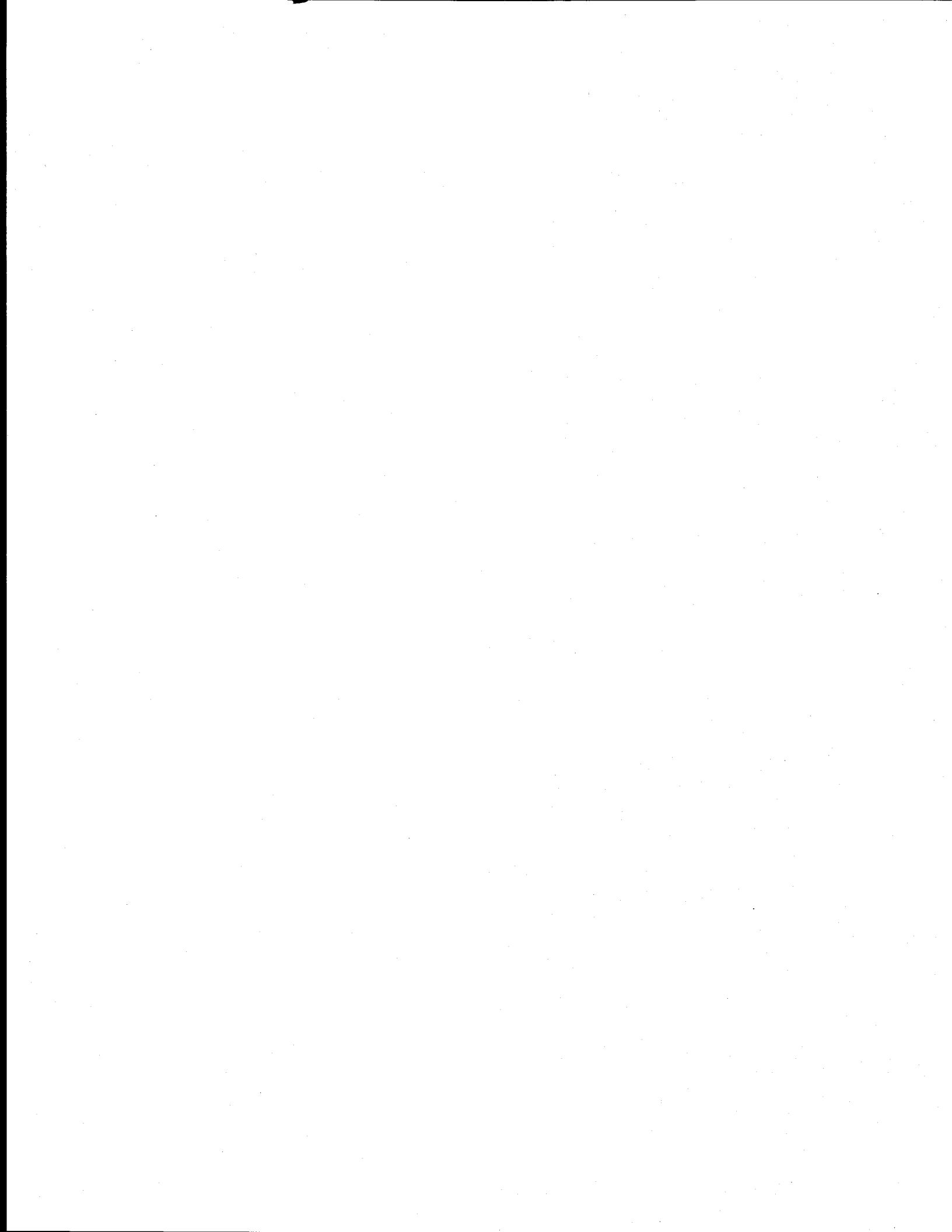
CRITICAL SPEED 31
AVERAGE SPEED 28.78
MEDIAN SPEED 28.0
STANDARD DEVIATION 2.54
PACE RANGE 25 - 35
PERCENTAGE IN PACE 95.2%
TOTAL # OF AUTOS 63

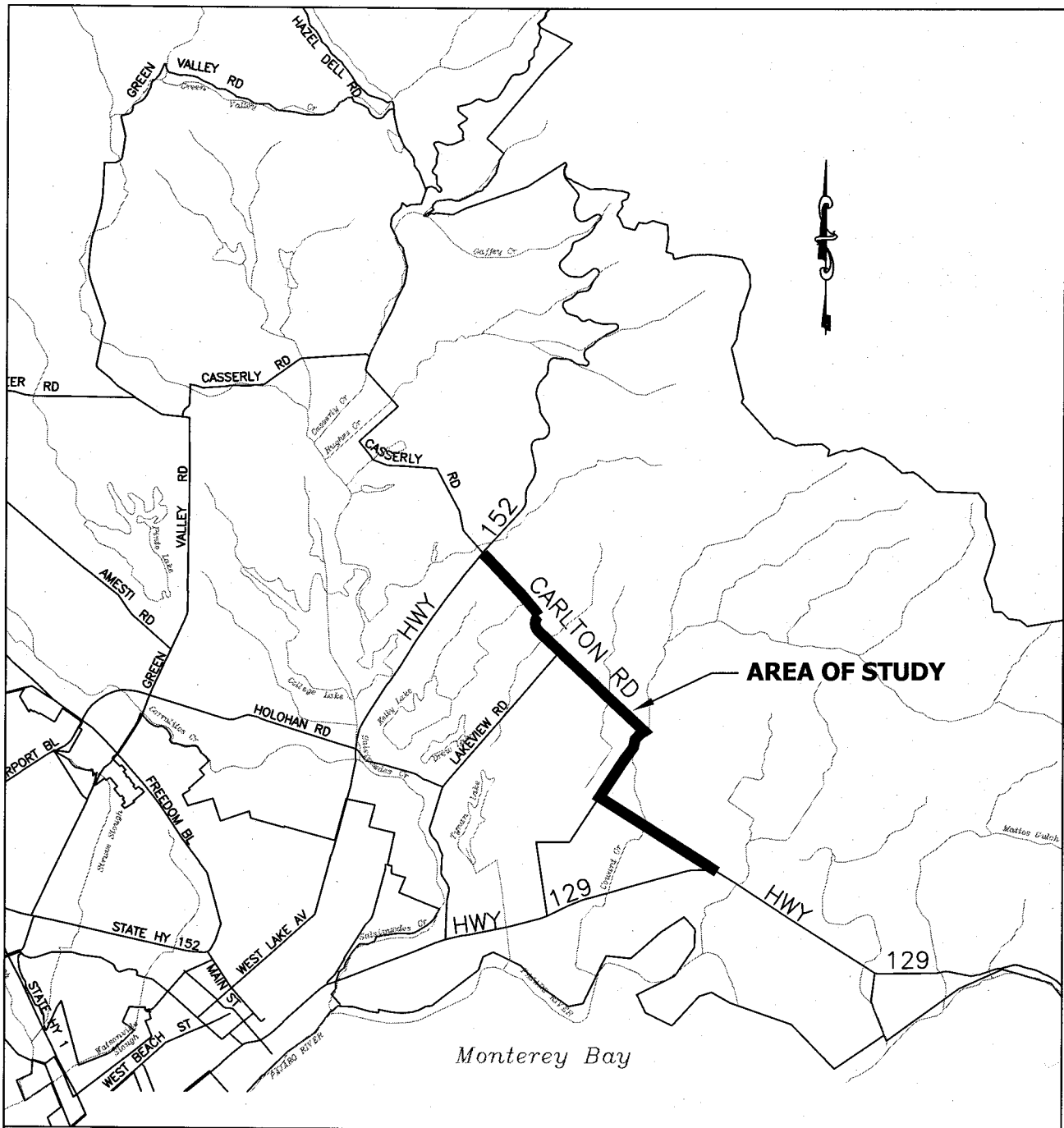
RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION DROMMER (17th & CHARLOTTE) BY JGL
 ROAD NO _____ DATE 5-17-07 DAY THU BEGIN 2:30 END 3:05
 POSTED SPEED 25 WEATHER SUNNY
 NUMBER OF LANES 2 GRADE FLAT CALIBRATED ✓

NUMBER OF VEHICLES

MPH	DIRECTION	TOTAL OF EACH SPEED	DIRECTION	TOTAL OF EACH SPEED
	E → FROM 17th		← W TO 17th	
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48				
47				
46				
45				
44				
43				
42				
41				
40				
39				
38				
37				
36				1
35		2		2
34		2		0
33		2		3
32		2		2
31	-	6		4
30	-	7	- -	10
29	-	6	-	9
28	- - -	15	- -	12
27	- -	12	-	9
26	-	9	-	5
25		4	-	6
24		2		
23				
22				
21				
20				
TOTAL		69	TOTAL 67	





AREA OF STUDY

**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
 RADAR SPEED SURVEY
 CARLTON ROAD
 STATE HIGHWAY 152 TO STATE HIGHWAY 129**

TRAFFIC AND ENGINEERING REPORT
MARCH 2008

PURPOSE:

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

LOCATION:

Carlton Road from State Highway 152 to State Highway 129 (Speed Data Collected east of Lakeview Road)

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	43 mph	41 mph
Pace Speed	30-40 mph	29-39 mph
Average Speed	35.69 mph	33.75 mph

ANALYSIS:

The prevailing 85th percentile speeds are 43 MPH and 41 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. 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

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Carlton Road				
From:	State Highway 152	50	1	◆	100.0%
To:	State Highway 129	49	1	◆	98.6%
Direction:	Westbound	48	1	◆	97.2%
Weather:	Sunny/Cloudy	47	0		95.8%
Posted Speed:	40 MPH	46	2	◆◆	95.8%
Begin time:	11:30 AM	45	1	◆	93.1%
End time:	1:30 PM	44	1	◆	91.7%
		43	4	◆◆◆◆	90.3%
		42	3	◆◆◆	84.7%
		41	1	◆	80.6%
		40	2	◆◆	79.2%
		39	5	◆◆◆◆◆	76.4%
		38	4	◆◆◆◆	69.4%
		37	5	◆◆◆◆◆	63.9%
		36	3	◆◆◆	56.9%
CRITICAL SPEED	43	35	9	◆◆◆◆◆◆◆◆◆◆	52.8%
AVERAGE SPEED	35.69	34	4	◆◆◆◆	40.3%
MEDIAN SPEED	35.0	33	3	◆◆◆	34.7%
STANDARD DEVIATION	6.07	32	2	◆◆	30.6%
PACE RANGE	30 - 40	31	6	◆◆◆◆◆◆	27.8%
PERCENTAGE IN PACE	61.1%	30	3	◆◆◆	19.4%
TOTAL # OF AUTOS	72	29	2	◆◆	15.3%
		28	3	◆◆◆	12.5%
		27	1	◆	8.3%
		26	1	◆	6.9%
		25	2	◆◆	5.6%
		24	2	◆◆	2.8%
		23	0		0.0%
		22	0		0.0%

RADAR SPEED SURVEY

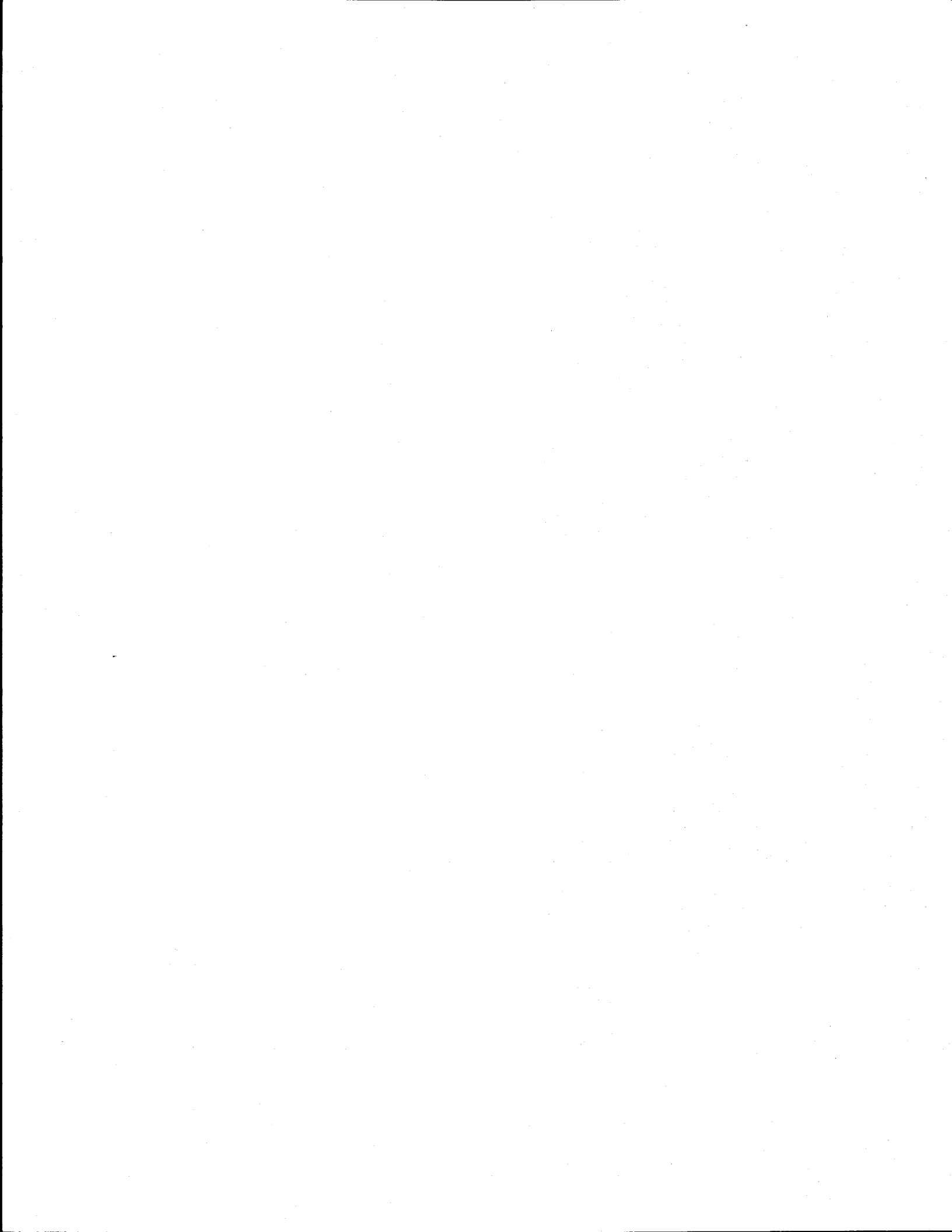
		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Carlton Road				
From:	State Highway 152	55	1	◆	100.0%
To:	State Highway 129	54	0		98.7%
Direction:	Eastbound	53	0		98.7%
Weather:	Sunny/Cloudy	52	0		98.7%
Posted Speed:	40 MPH	51	0		98.7%
Begin time:	11:30 AM	50	0		98.7%
End time:	1:30 PM	49	1	◆	98.7%
		48	0		97.5%
		47	0		97.5%
		46	2	◆◆	97.5%
		45	0		94.9%
		44	4	◆◆◆◆	94.9%
		43	0		89.9%
		42	2	◆◆	89.9%
		41	3	◆◆◆	87.3%
CRITICAL SPEED	41	40	3	◆◆◆	83.5%
AVERAGE SPEED	33.75	39	3	◆◆◆	79.7%
MEDIAN SPEED	33.0	38	6	◆◆◆◆◆◆	75.9%
STANDARD DEVIATION	7.74	37	4	◆◆◆◆	68.4%
PACE RANGE	29 - 39	36	5	◆◆◆◆◆	63.3%
PERCENTAGE IN PACE	68.4%	35	5	◆◆◆◆◆	57.0%
TOTAL # OF AUTOS	79	14	5	◆◆◆◆◆	50.6%
		33	1	◆	44.3%
		32	9	◆◆◆◆◆◆◆◆◆◆	43.0%
		31	7	◆◆◆◆◆◆◆	31.6%
		30	5	◆◆◆◆◆	22.8%
		29	7	◆◆◆◆◆◆◆	16.5%
		28	0		7.6%
		27	3	◆◆◆	7.6%
		26	2	◆◆	3.8%
		25	1	◆	1.3%

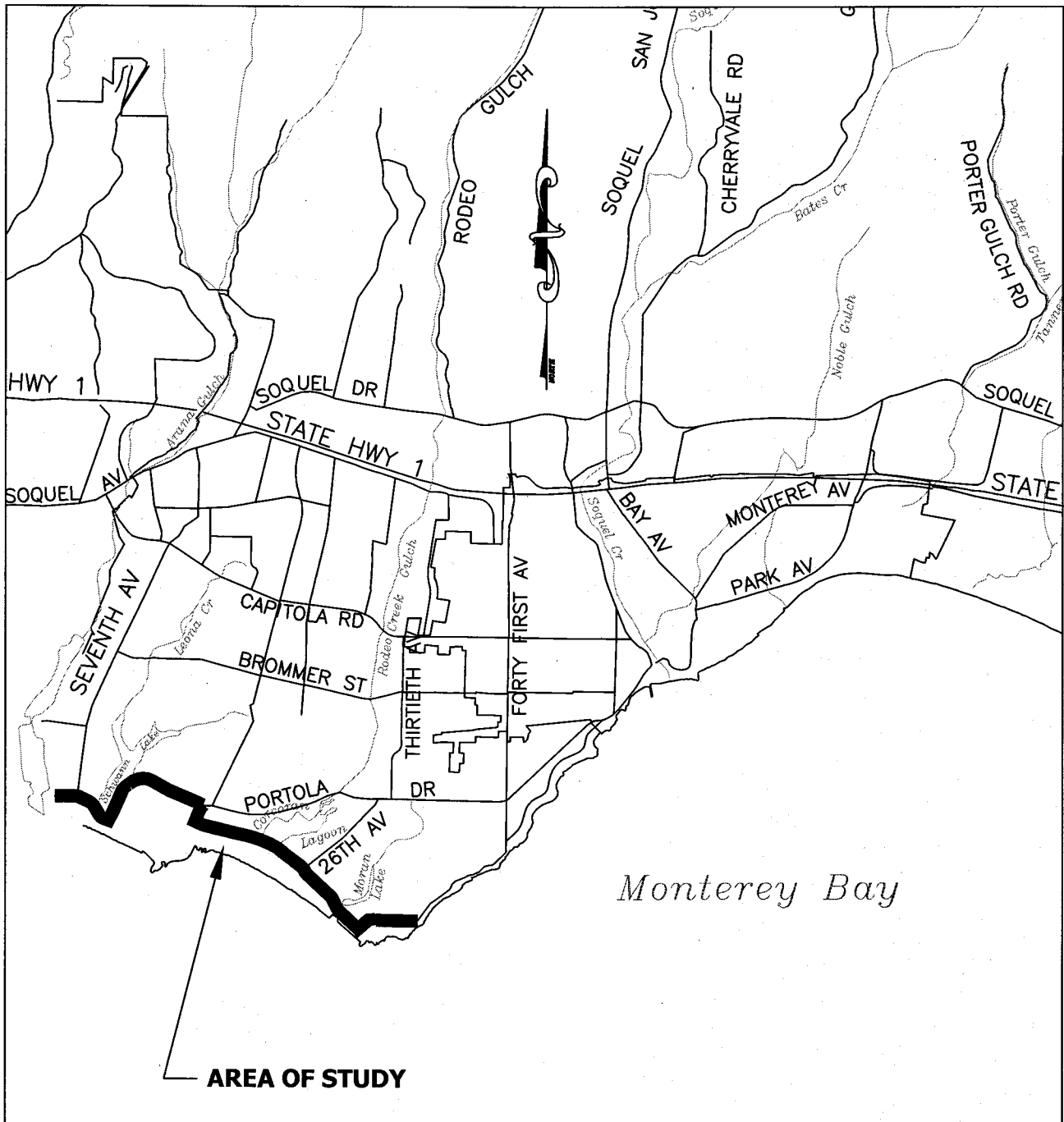
RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION CARLTON ROAD (EAST OF LAKEVIEW RD) BY JGL
 ROAD NO _____ DATE 3-11-08 DAY TUE BEGIN 11:30 END 1:30
 POSTED SPEED 40 MPH WEATHER SUNNY / CLOUDY
 NUMBER OF LANES 2 GRADE FLAT / ROLLING CALIBRATED

NUMBER OF VEHICLES

MPH	DIRECTION	TOTAL OF EACH SPEED	DIRECTION	TOTAL OF EACH SPEED
	E →		W ←	
60				
59				
58				
57				
56				
55		1		
54		0		
53		0		
52		0		
51		0		
50		0		1
49		1		1
48		0		1
47		0		0
46		2		2
45		0		1
44		4		1
43		0		4
42		2		3
41		3		1
40		3		2
39		3		5
38	-1	6		4
37		4		5
36		5		3
35		5		9
34	-	5		4
33		1		3
32	-	9		2
31	-	7		6
30	-	5		3
29	-	7		2
28		0		3
27		3		1
26		2		1
25		1		2
24				
23				
22				
21				
20				
TOTAL		79	TOTAL	
			72	





AREA OF STUDY

**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
 RADAR SPEED SURVEY
 EAST CLIFF DRIVE
 FIFTH AVENUE TO 32nd AVENUE**

**March 2008
 Page # 20**

TRAFFIC AND ENGINEERING REPORT
MARCH 2008

PURPOSE:

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

LOCATION:

East Cliff Drive between Fifth Avenue and Portola Drive (Speed Data collected at # 21500).

PREVAILING SPEED DATA:

The existing posted speed limit is 25 mph and is radar enforced.

The prevailing speeds are:

Direction	Westbound	Eastbound
85 th Percentile	29 mph	29 mph
Pace Speed	20-30 mph	21-31 mph
Average Speed	25.52 mph	25.88 mph

ANALYSIS:

The prevailing 85th percentile speeds are 29 MPH in both directions of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 30 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 25 MPH. The factors justifying a further reduction are high volume of vehicular, pedestrian and bicycle traffic, shoulder conditions with pedestrians in the roadway without sidewalks, and an arterial route leading to popular beaches. It is recommended that the existing 25 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

Route: EAST CLIFF DR
From: Fifth Ave
To: Portola Dr
Direction: Westbound
Weather: sunny
Posted Speed: 25
Begin time: 2:10 PM
End time: 2:35 PM

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
		34	1	◆	100.0%
		33	2	◆◆	98.1%
		32	1	◆	94.4%
		31	2	◆◆	92.6%
		30	0		88.9%
		29	4	◆◆◆◆	88.9%
		28	4	◆◆◆◆	81.5%
		27	6	◆◆◆◆◆◆	74.1%
		26	6	◆◆◆◆◆◆	63.0%
		25	7	◆◆◆◆◆◆◆	51.9%
		24	8	◆◆◆◆◆◆◆◆	38.9%
		23	1	◆	24.1%
		22	5	◆◆◆◆◆	22.2%
		21	2	◆◆	13.0%
		20	3	◆◆◆	9.3%
CRITICAL SPEED	29	19	1	◆	3.7%
AVERAGE SPEED	25.52	18	0		1.9%
MEDIAN SPEED	25.0	17	1	◆	1.9%
STANDARD DEVIATION	3.66	16	0		0.0%
PACE RANGE	20 - 30	15	0		0.0%
PERCENTAGE IN PACE	85.2%		0		0
TOTAL # OF AUTOS	54		0		0

RADAR SPEED SURVEY

Route: EAST CLIFF DR
From: Fifth Ave
To: Portola Dr
Direction: Eastbound
Weather: sunny
Posted Speed: 25
Begin time: 2:10 PM
End time: 2:35 PM

<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
33	1	◆	100.0%
32	2	◆◆	98.3%
31	1	◆	94.8%
30	2	◆◆	93.1%
29	5	◆◆◆◆◆	89.7%
28	4	◆◆◆◆	81.0%
27	8	◆◆◆◆◆◆◆◆	74.1%
26	12	◆◆◆◆◆◆◆◆◆◆◆◆	60.3%
25	6	◆◆◆◆◆◆	39.7%
24	3	◆◆◆	29.3%
23	6	◆◆◆◆◆◆	24.1%
22	4	◆◆◆◆	13.8%
21	2	◆◆	6.9%
20	0		3.4%
19	2	◆◆	3.4%
CRITICAL SPEED	29	0	0.0%
AVERAGE SPEED	25.88	0	0.0%
MEDIAN SPEED	26.0	0	0.0%
STANDARD DEVIATION	3.05	0	0.0%
PACE RANGE	21 - 31	0	0
PERCENTAGE IN PACE	89.7%	0	0
TOTAL # OF AUTOS	58	0	0

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION E. Cliff Dr. (Lake Ave. to Portola Dr. @) # 21500 BY A-M
 ROAD NO _____ DATE _____ DAY MON BEGIN 2:10 PM END 2:35 PM
 POSTED SPEED 25 m/h WEATHER SUNNY
 NUMBER OF LANES 2 GRADE 3% CALIBRATED

NUMBER OF VEHICLES

MPH	DIRECTION	TOTAL OF EACH SPEED	DIRECTION	TOTAL OF EACH SPEED
	→ E		W ←	
51				
50				
49				
48				
47				
46				
45				
44				
43				
42				
41				
40				
39				
38				
37				
36				
35				
34				1
33		1		2
32		2		1
31		1		2
30		2		0
29		5		4
28		4		4
27		5		5
26		5		5
25		4		4
24		4		4
23		4		4
22		4		4
21		2		2
20		0		2
19		2		1
18				0
17				1
16				
15				
14				
13				
12				
11				
TOTAL		58	TOTAL	

TRAFFIC AND ENGINEERING REPORT
MARCH 2008

PURPOSE:

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

LOCATION:

East Cliff Drive between Portola Drive and 32nd Avenue (Speed Data collected at # 22680).

PREVAILING SPEED DATA:

The existing posted speed limit is 25 mph and is radar enforced.

The prevailing speeds are:

Direction	Westbound	Eastbound
85 th Percentile	29 mph	30 mph
Pace Speed	20-30 mph	22-32 mph
Average Speed	25.09 mph	26.59 mph

ANALYSIS:

The prevailing 85th percentile speeds are 29 MPH and 30 MPH depending on the direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 30 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 25 MPH. The factors justifying a further reduction are a prima-facie residential district, high volume of traffic, pedestrian and bicycle traffic, shoulder conditions with pedestrians in the roadway without sidewalks, and an arterial route leading to popular beaches. It is recommended that the existing 25 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

Route: EAST CLIFF DR
From: Portola Dr
To: 32nd Ave
Direction: Westbound
Weather: sunny
Posted Speed: 25
Begin time: 2:55 PM
End time: 3:45 PM

CRITICAL SPEED 29
AVERAGE SPEED 25.09
MEDIAN SPEED 25.0
STANDARD DEVIATION 3.55
PACE RANGE 20 - 30
PERCENTAGE IN PACE 86.8%
TOTAL # OF AUTOS 53

<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
33	1	◆	100.0%
32	1	◆	98.1%
31	2	◆◆	96.2%
30	2	◆◆	92.5%
29	4	◆◆◆◆	88.7%
28	5	◆◆◆◆◆	81.1%
27	2	◆◆	71.7%
26	6	◆◆◆◆◆◆	67.9%
25	8	◆◆◆◆◆◆◆◆	56.6%
24	3	◆◆◆	41.5%
23	6	◆◆◆◆◆◆	35.8%
22	2	◆◆	24.5%
21	5	◆◆◆◆◆	20.8%
20	5	◆◆◆◆◆	11.3%
19	0		1.9%
18	1	◆	1.9%
17	0		0.0%
16	0		0.0%
15	0		0.0%
	0		
	0		
	0		

RADAR SPEED SURVEY

Route: EAST CLIFF DR
From: Portola Dr
To: 32nd Ave
Direction: Eastbound
Weather: sunny
Posted Speed: 25
Begin time: 2:55 PM
End time: 3:45 PM

CRITICAL SPEED 30
AVERAGE SPEED 26.59
MEDIAN SPEED 26.0
STANDARD DEVIATION 2.72
PACE RANGE 22 - 32
PERCENTAGE IN PACE 95.9%
TOTAL # OF AUTOS 73

<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
34	1	◆	100.0%
33	1	◆	98.6%
32	0		97.3%
31	4	◆◆◆◆	97.3%
30	5	◆◆◆◆◆	91.8%
29	6	◆◆◆◆◆◆	84.9%
28	9	◆◆◆◆◆◆◆◆◆	76.7%
27	7	◆◆◆◆◆◆◆	64.4%
26	16	◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆	54.8%
25	9	◆◆◆◆◆◆◆◆◆	32.9%
24	5	◆◆◆◆◆	20.5%
23	6	◆◆◆◆◆◆	13.7%
22	3	◆◆◆	5.5%
21	0		1.4%
20	1	◆	1.4%
19	0		0.0%
18	0		0.0%
17	0		0.0%
16	0		0.0%
15	0		0.0%

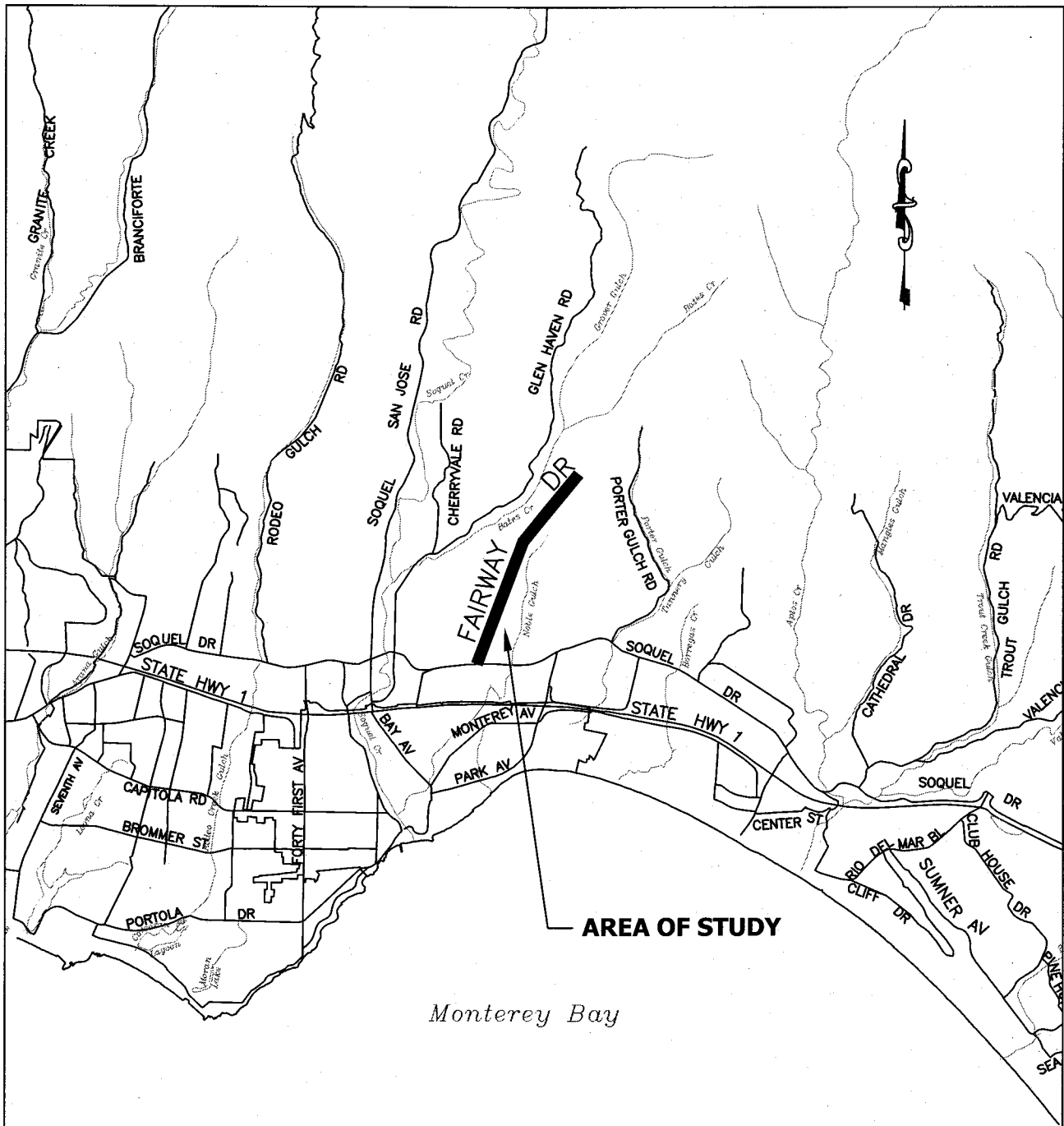
RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION E. Cliff Dr. (Portola Dr. - 32nd Ave @ # 22680) BY A-M
 ROAD NO - DATE 7-16-07 DAY MON BEGIN 2:55 pm END 3:45 pm
 POSTED SPEED 25 mph WEATHER SUNNY
 NUMBER OF LANES 2 GRADE 3/-5% CALIBRATED ✓

NUMBER OF VEHICLES

MPH	DIRECTION	TOTAL OF EACH SPEED	DIRECTION	TOTAL OF EACH SPEED
	→ E		W ←	
51				
50				
49				
48				
47				
46				
45				
44				
43				
42				
41				
40				
39				
38				
37				
36				
35				
34		1		
33		1		1
32		0		1
31		4		2
30		5		2
29		6		4
28		9		5
27		7		2
26		16		6
25		9		8
24		5		3
23		6		6
22		3		2
21		0		5
20		1		5
19				0
18				1
17				
16				
15				
14				
13				
12				
11				
TOTAL		73	TOTAL	
			53	





**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
 RADAR SPEED SURVEY
 FAIRWAY DRIVE
 ENTIRE LENGTH**

TRAFFIC AND ENGINEERING REPORT
MARCH 2008

PURPOSE:

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

LOCATION:

Fairway Drive. (Speed Data collected north of Soquel Drive)

PREVAILING SPEED DATA:

The existing posted speed limit is 25 mph and is radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	29 mph	30 mph
Pace Speed	20-30 mph	20-30 mph
Average Speed	24.83 mph	26.19 mph

ANALYSIS:

The prevailing 85th percentile speeds are 30 MPH and 29 MPH depending on the direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 30 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 25 MPH. The factors justifying a further reduction are prima-facie residential district, shoulder conditions with pedestrians in the roadway without sidewalks, safe stopping sight distance, and a tree lined roadway. It is recommended that the existing 25 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Fairway Drive				
From:	Soquel Drive	38	1	◆	100.0%
To:	End	37	1	◆	98.3%
Direction:	Northbound	36	0		96.7%
Weather:	Cloudy	35	0		96.7%
Posted Speed:	25 MPH	34	0		96.7%
Begin time:	11:24 AM	33	0		96.7%
End time:	12:05 PM	32	0		96.7%
		31	2	◆◆	96.7%
		30	2	◆◆	93.3%
		29	4	◆◆◆◆	90.0%
		28	4	◆◆◆◆	83.3%
		27	5	◆◆◆◆◆	76.7%
		26	5	◆◆◆◆◆	68.3%
		25	6	◆◆◆◆◆◆	60.0%
		24	2	◆◆	50.0%
CRITICAL SPEED	29	23	6	◆◆◆◆◆◆	46.7%
AVERAGE SPEED	24.83	22	10	◆◆◆◆◆◆◆◆◆◆	36.7%
MEDIAN SPEED	24.5	21	4	◆◆◆◆	20.0%
STANDARD DEVIATION	3.99	20	8	◆◆◆◆◆◆◆◆	13.3%
PACE RANGE	20 - 30	19	0		0.0%
PERCENTAGE IN PACE	90.0%	18	0		0.0%
TOTAL # OF AUTOS	60	17	0		0.0%

RADAR SPEED SURVEY

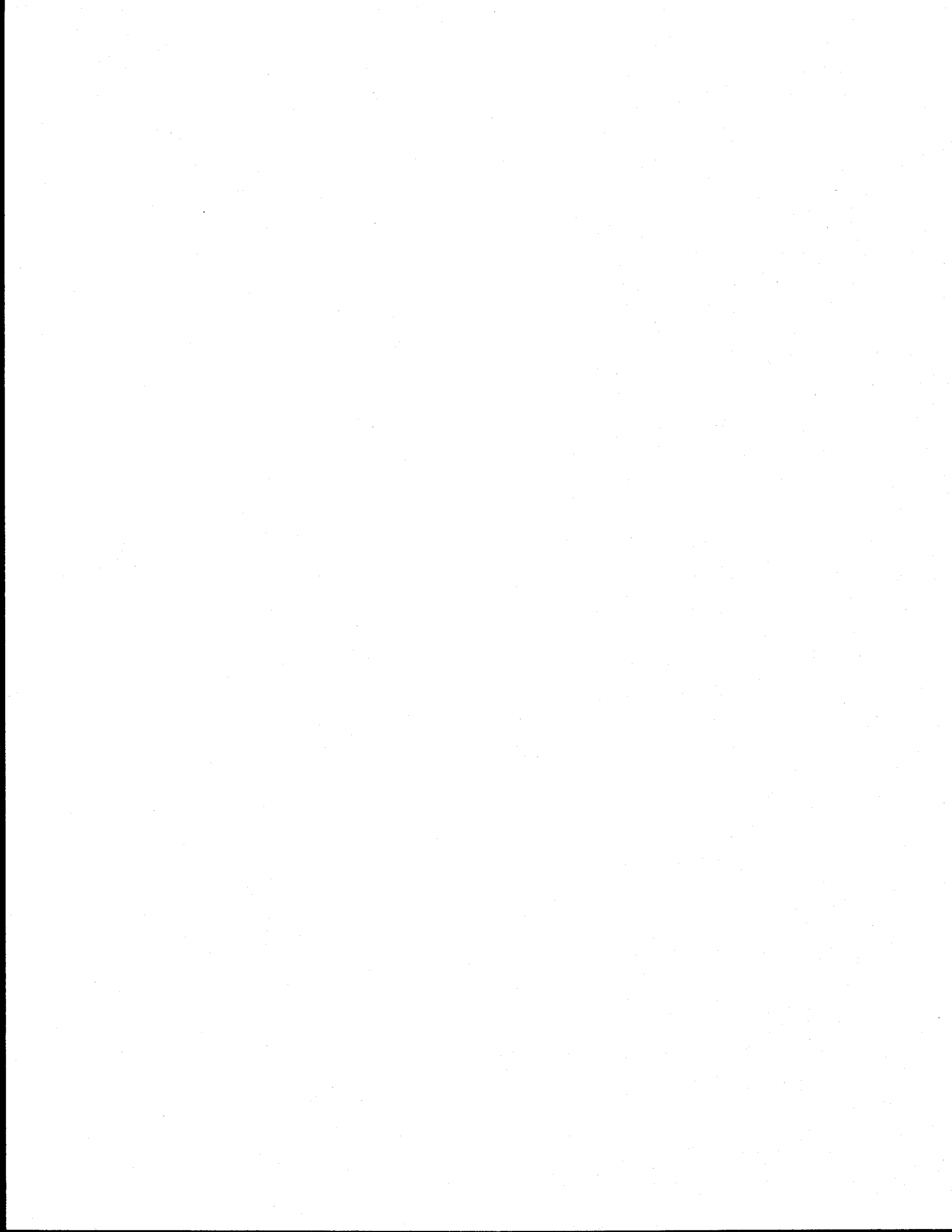
		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Fairway Drive				
From:	Soquel Drive	37	1	◆	100.0%
To:	End	36	0		98.4%
Direction:	Southbound	35	2	◆◆	98.4%
Weather:	Cloudy	34	0		95.3%
Posted Speed:	25 MPH	33	2	◆◆	95.3%
Begin time:	11:24 AM	32	0		92.2%
End time:	12:05 PM	31	4	◆◆◆◆	92.2%
		30	1	◆	85.9%
		29	4	◆◆◆◆	84.4%
		28	9	◆◆◆◆◆◆◆◆◆◆	78.1%
		27	7	◆◆◆◆◆◆◆	64.1%
		26	4	◆◆◆◆	53.1%
		25	8	◆◆◆◆◆◆◆◆	46.9%
		24	7	◆◆◆◆◆◆◆	34.4%
		23	4	◆◆◆◆	23.4%
CRITICAL SPEED	30	22	2	◆◆	17.2%
AVERAGE SPEED	26.19	21	4	◆◆◆◆	14.1%
MEDIAN SPEED	26.0	20	5	◆◆◆◆◆	7.8%
STANDARD DEVIATION	3.90	19	0		0.0%
PACE RANGE	20 - 30	18	0		0.0%
PERCENTAGE IN PACE	84.4%	17	0		0.0%
TOTAL # OF AUTOS	64	16	0		0.0%

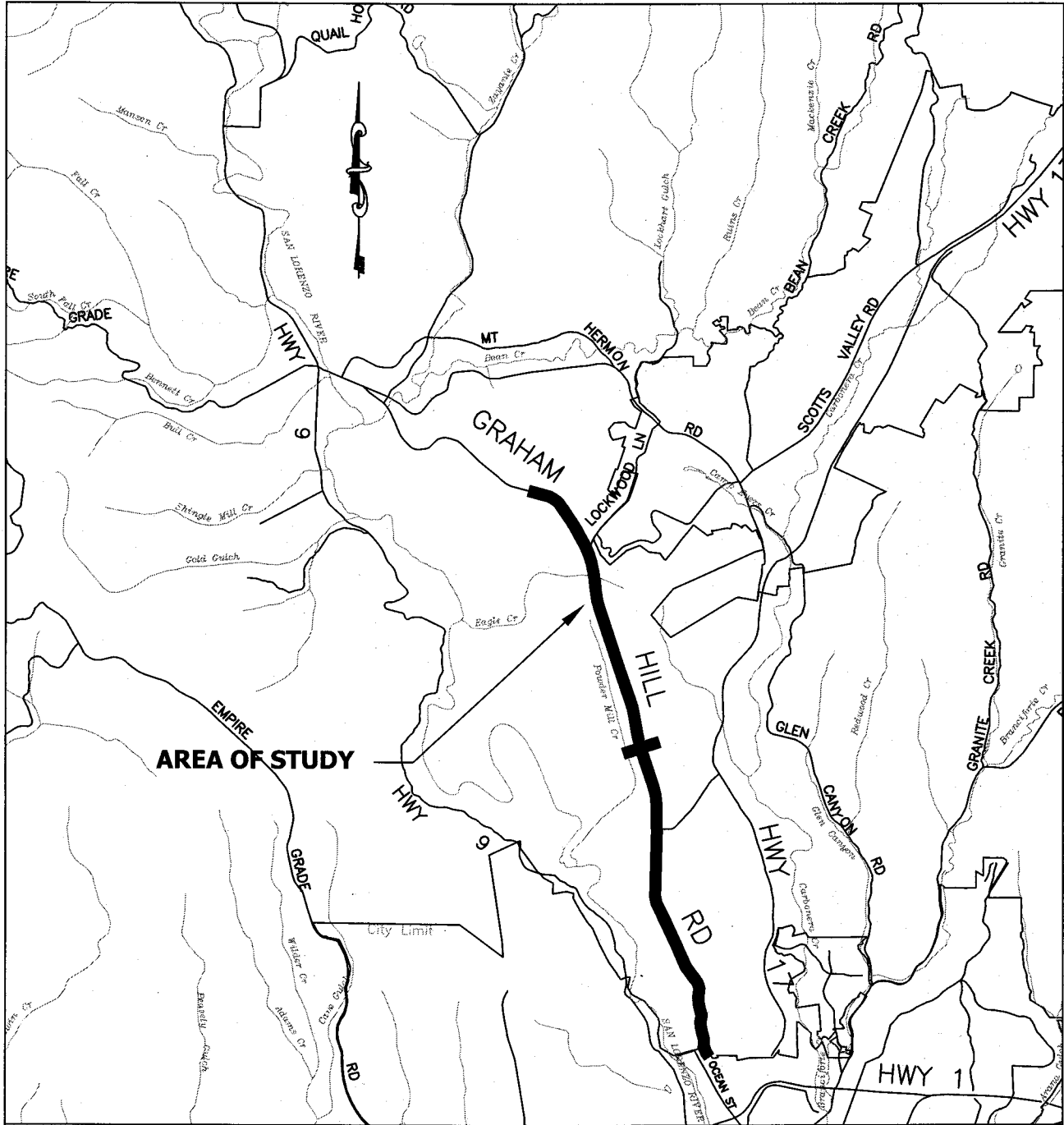
RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION FAIRWAY DRIVE (NORTH OF SOQUEL) BY JGL
 ROAD NO _____ DATE 5-25-07 DAY FRI BEGIN 1124 END 1205
 POSTED SPEED 25 WEATHER CLOUDY
 NUMBER OF LANES 2 GRADE 2% CALIBRATED

NUMBER OF VEHICLES

MPH	DIRECTION TO SOQUEL → S	TOTAL OF EACH SPEED	DIRECTION N ← FROM SOQUEL	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48				
47				
46				
45				
44				
43				
42				
41				
40				
39				
38				1
37		1		1
36		0		0
35		2		0
34		0		0
33		2		0
32		0		0
31		4		2
30		1		2
29		4		4
28	-	9		4
27	-	7	-	5
26		4	-	5
25	-	8	-	6
24	-	7	-	2
23		4	-	6
22		2	-	10
21		4	-	4
20	-	5	-	8
TOTAL		64	TOTAL	60





SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
GRAHAM HILL ROAD
CITY OF SANTA CRUZ TO THE PROBATION CENTER

TRAFFIC AND ENGINEERING REPORT
MARCH 2008

PURPOSE:

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

LOCATION:

Graham Hill Road from the Santa Cruz City Limits to Treetop Drive. (Speed Data collected north of Sims Road)

PREVAILING SPEED DATA:

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

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	41 mph	43 mph
Pace Speed	32-42 mph	33-43 mph
Average Speed	37.62 mph	37.96 mph

ANALYSIS:

The prevailing 85th percentile speeds are 43 MPH and 41 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 California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 35 MPH. The factors justifying a further reduction are safe stopping sight distance, numerous driveways, adjacent horse show grounds, bicycle traffic, and shoulder conditions with pedestrians in the roadway without sidewalks. 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

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Graham Hill Road				
From:	Santa Cruz City Limits	45	1	◆	100.0%
To:	Treetop Drive	44	3	◆◆◆	98.5%
Direction:	Northbound	43	2	◆◆	93.9%
Weather:	Sunny	42	2	◆◆	90.9%
Posted Speed:	35 MPH	41	8	◆◆◆◆◆◆◆◆	87.9%
Begin time:	10:25 AM	40	9	◆◆◆◆◆◆◆◆◆	75.8%
End time:	10:55 AM	39	5	◆◆◆◆◆	62.1%
		38	3	◆◆◆	54.5%
		37	11	◆◆◆◆◆◆◆◆◆◆◆	50.0%
		36	4	◆◆◆◆	33.3%
		35	4	◆◆◆◆	27.3%
		34	3	◆◆◆	21.2%
		33	2	◆◆	16.7%
		32	4	◆◆◆◆	13.6%
		31	2	◆◆	7.6%
		30	3	◆◆◆	4.5%
CRITICAL SPEED	41	30	3		
AVERAGE SPEED	37.62	29	0		0.0%
MEDIAN SPEED	37.5	28	0		0.0%
STANDARD DEVIATION	3.80	27	0		0.0%
PACE RANGE	32 - 42	26	0		0.0%
PERCENTAGE IN PACE	80.3%	25	0		0.0%
TOTAL # OF AUTOS	66	24	0		0.0%

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Graham Hill Road				
From:	Santa Cruz City Limits	50	1	◆	100.0%
To:	Treetop Drive	49	0		98.6%
Direction:	Southbound	48	0		98.6%
Weather:	Sunny	47	0		98.6%
Posted Speed:	35 MPH	46	1	◆	98.6%
Begin time:	10:25 AM	45	2	◆◆	97.3%
End time:	10:55 AM	44	5	◆◆◆◆◆	94.6%
		43	5	◆◆◆◆◆	87.8%
		42	4	◆◆◆◆	81.1%
		41	3	◆◆◆	75.7%
		40	8	◆◆◆◆◆◆◆◆	71.6%
		39	8	◆◆◆◆◆◆◆◆	60.8%
		38	2	◆◆	50.0%
		37	4	◆◆◆◆	47.3%
		36	3	◆◆◆	41.9%
CRITICAL SPEED	43	35	7	◆◆◆◆◆◆◆	37.8%
AVERAGE SPEED	37.96	34	6	◆◆◆◆◆◆	28.4%
MEDIAN SPEED	38.5	33	10	◆◆◆◆◆◆◆◆◆◆	20.3%
STANDARD DEVIATION	4.42	32	1	◆	6.8%
PACE RANGE	33 - 43	31	2	◆◆	5.4%
PERCENTAGE IN PACE	74.3%	30	2	◆◆	2.7%
TOTAL # OF AUTOS	74	29	0		0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION GRAHAM HILL RD (@ HORSE SIDE GROUNDS) BY JGL
 ROAD NO _____ DATE 5-21-07 DAY MON BEGIN 10:25 END 10:55
 POSTED SPEED 35 WEATHER SUNNY
 NUMBER OF LANES 2 GRADE FLAT CALIBRATED ✓

NUMBER OF VEHICLES

MPH	DIRECTION FROM (S/M)	TOTAL OF EACH SPEED	DIRECTION TO (S/M)	TOTAL OF EACH SPEED
	→ S		N ←	
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50		1		
49		0		
48		0		
47		0		
46		1		
45		2	1	1
44		5		3
43	-	5		2
42		4		2
41		3	-	8
40	-	8	-	9
39	-	8		5
38		2		3
37		4	-	11
36		3		4
35	-	7		4
34	-	6		3
33	-	10		2
32		1		4
31		2		2
30		2		3
29				
28				
27				
26				
25				
24				
23				
22				
21				
20				
TOTAL		74	TOTAL 66	

TRAFFIC AND ENGINEERING REPORT
MARCH 2008

PURPOSE:

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

LOCATION:

Graham Hill Road from Treetop Drive to the Probation Center. (Speed Data collected at Cress Road)

PREVAILING SPEED DATA:

The existing posted speed limit is 45 mph and is radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	49 mph	49 mph
Pace Speed	42-52 mph	42-52 mph
Average Speed	45.29 mph	46.29 mph

ANALYSIS:

The prevailing 85th percentile speeds are 49 MPH on both directions of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 50 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 45 MPH. The factors justifying a further reduction are major arterial, commute route, deer and equestrian crossing areas, and shoulder conditions with pedestrians in the roadway without sidewalks. It is recommended that the existing 45 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

Route: Graham Hill Rd.
From: Treetop Drive
To: Probation Center
Direction: Southbound
Weather: Sunny
Posted Speed: 45
Begin time: 2:05 PM
End time: 2:25 PM

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
		53	2	◆◆	100.0%
		52	0		97.4%
		51	4	◆◆◆◆	97.4%
		50	5	◆◆◆◆◆	92.3%
		49	10	◆◆◆◆◆◆◆◆◆◆	85.9%
		48	10	◆◆◆◆◆◆◆◆◆◆	73.1%
		47	4	◆◆◆◆	60.3%
		46	8	◆◆◆◆◆◆◆◆	55.1%
		45	11	◆◆◆◆◆◆◆◆◆◆	44.9%
		44	13	◆◆◆◆◆◆◆◆◆◆◆◆	30.8%
		43	3	◆◆◆	14.1%
		42	5	◆◆◆◆◆	10.3%
		41	1	◆	3.8%
		40	1	◆	2.6%
		39	0		1.3%
		38	1	◆	1.3%
CRITICAL SPEED	49	38	1	◆	1.3%
AVERAGE SPEED	46.29	37	0		0.0%
MEDIAN SPEED	46.0	36	0		0.0%
STANDARD DEVIATION	3.02	35	0		0.0%
PACE RANGE	42 - 52	34	0		0.0%
PERCENTAGE IN PACE	93.6%	33	0		0.0%
TOTAL # OF AUTOS	78	32	0		0.0%

RADAR SPEED SURVEY


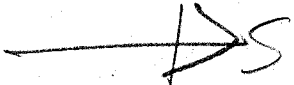
Route: Graham Hill Rd.
From: Treetop Drive
To: Probation Center
Direction: Northbound
Weather: Sunny
Posted Speed: 45
Begin time: 2:05 PM
End time: 2:25 PM

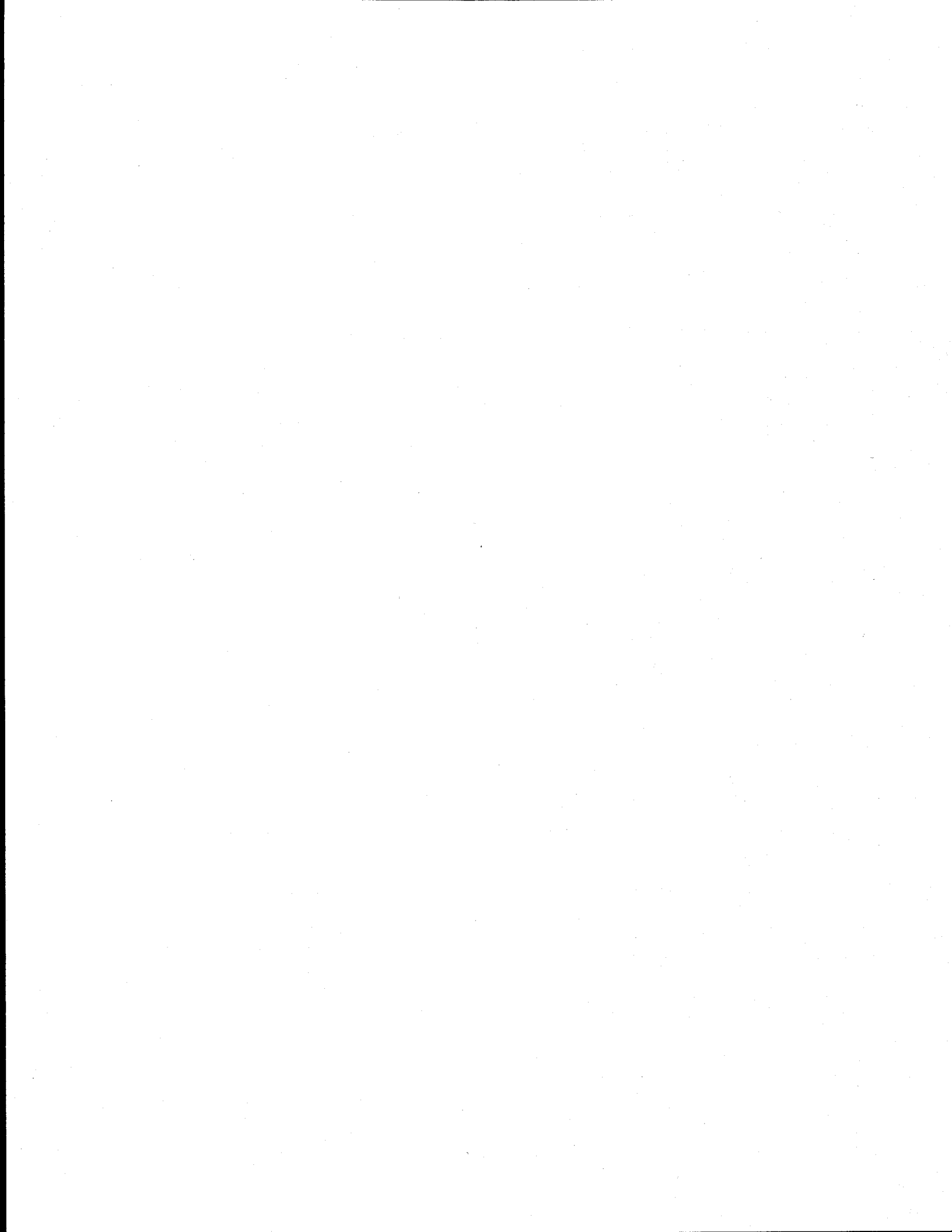
		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
		53	2	◆◆	100.0%
		52	0		97.5%
		51	5	◆◆◆◆◆	97.5%
		50	4	◆◆◆◆	91.1%
		49	4	◆◆◆◆	86.1%
		48	5	◆◆◆◆◆	81.0%
		47	6	◆◆◆◆◆◆	74.7%
		46	6	◆◆◆◆◆◆	67.1%
		45	13	◆◆◆◆◆◆◆◆◆◆◆	59.5%
		44	8	◆◆◆◆◆◆◆◆	43.0%
		43	7	◆◆◆◆◆◆◆	32.9%
		42	11	◆◆◆◆◆◆◆◆◆◆◆	24.1%
		41	3	◆◆◆	10.1%
		40	5	◆◆◆◆◆	6.3%
		39	0		0.0%
CRITICAL SPEED	49	38	0		0.0%
AVERAGE SPEED	45.29	37	0		0.0%
MEDIAN SPEED	45.0	36	0		0.0%
STANDARD DEVIATION	3.30	35	0		0.0%
PACE RANGE	42 - 52	34	0		0.0%
PERCENTAGE IN PACE	87.3%	33	0		0.0%
TOTAL # OF AUTOS	79	32	0		0.0%

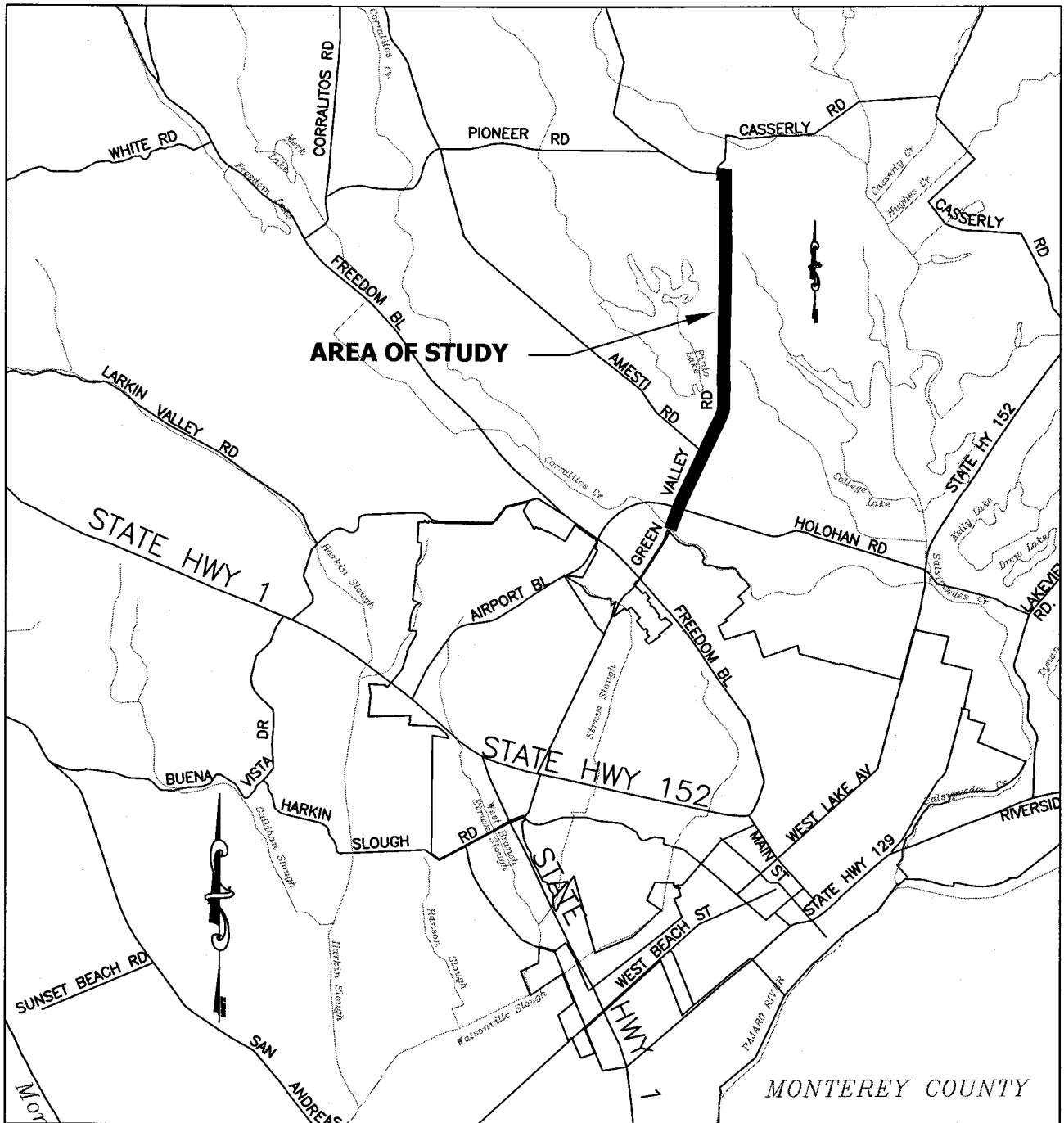
RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION Graham Hill Rd (Cross Rd) BY A-m
 ROAD NO _____ DATE 5/21/07 DAY Mon BEGIN 2:05 END 2:25
 POSTED SPEED 45 mph WEATHER Sunny
 NUMBER OF LANES 2 GRADE 2%^o CALIBRATED

NUMBER OF VEHICLES

MPH	DIRECTION	TOTAL OF EACH SPEED	DIRECTION	TOTAL OF EACH SPEED
	<u>N</u> 		 <u>S</u>	
60				
59				
58				
57				
56				
55				
54				
53		2		2
52		0		0
51		5		4
50		4		5
49		4		10
48		5		10
47		6		4
46		6		8
45		13		11
44		8		13
43		7		3
42		11		5
41		3		1
40		5		1
39				0
38				1
37				
36				
35				
34				
33				
32				
31				
30				
29				
28				
27				
26				
25				
24				
23				
22				
21				
20				
TOTAL		79	TOTAL 78	





**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
 RADAR SPEED SURVEY
 GREEN VALLEY ROAD
 CORRALITOS CREEK TO CASSERLY ROAD**

TRAFFIC AND ENGINEERING REPORT
MARCH 2008

PURPOSE:

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

LOCATION:

Green Valley Road from Corralitos Creek to Casserly Road. (Speed Data collected at Paulsen Road)

PREVAILING SPEED DATA:

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

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	38 mph	38 mph
Pace Speed	30-40 mph	32-42 mph
Average Speed	34.08 mph	35.43 mph

ANALYSIS:

The prevailing 85th percentile speeds are 38 MPH in both directions 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 California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 35 MPH. The factors justifying a further reduction are high volume of traffic, numerous intersections, intersection spacing and offsets, numerous private roads and driveways, and shoulder conditions with pedestrians in the roadway without sidewalks. 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

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Green Valley Rd				
From:	Corralitos Cr	47	1	◆	100.0%
To:	Casserly Rd	46	0		98.6%
Direction:	Northbound	45	0		98.6%
Weather:	Partly Cloudy	44	0		98.6%
Posted Speed:	35	43	1	◆	98.6%
Begin time:	2:15 PM	42	0		97.3%
End time:	2:35 PM	41	0		97.3%
		40	2	◆◆	97.3%
		39	4	◆◆◆◆	94.5%
		38	5	◆◆◆◆◆	89.0%
		37	5	◆◆◆◆◆	82.2%
		36	5	◆◆◆◆◆	75.3%
		35	6	◆◆◆◆◆◆	68.5%
		34	11	◆◆◆◆◆◆◆◆◆◆	60.3%
		33	9	◆◆◆◆◆◆◆◆◆	45.2%
		32	12	◆◆◆◆◆◆◆◆◆◆◆◆	32.9%
		31	2	◆◆	16.4%
		30	3	◆◆◆	13.7%
		29	0		9.6%
		28	5	◆◆◆◆◆	9.6%
		27	0		2.7%
		26	0		2.7%
CRITICAL SPEED	38				
AVERAGE SPEED	34.08				
MEDIAN SPEED	34.0				
STANDARD DEVIATION	3.80				
PACE RANGE	30 - 40				
PERCENTAGE IN PACE	84.9%				
TOTAL # OF AUTOS	73				

RADAR SPEED SURVEY

Route: Green Valley Rd
From: Corralitos Cr
To: Casserly Rd
Direction: Southbound
Weather: Partly Cloudy
Posted Speed: 35
Begin time: 2:15 PM
End time: 2:35 PM

CRITICAL SPEED 38
AVERAGE SPEED 35.43
MEDIAN SPEED 35.0
STANDARD DEVIATION 2.99
PACE RANGE 32 - 42
PERCENTAGE IN PACE 91.0%
TOTAL # OF AUTOS 67

<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
46	1	◆	100.0%
45	0		98.5%
44	0		98.5%
43	0		98.5%
42	2	◆◆	98.5%
41	0		95.5%
40	2	◆◆	95.5%
39	4	◆◆◆◆	92.5%
38	3	◆◆◆	86.6%
37	9	◆◆◆◆◆◆◆◆◆	82.1%
36	10	◆◆◆◆◆◆◆◆◆◆	68.7%
35	9	◆◆◆◆◆◆◆◆◆	53.7%
34	10	◆◆◆◆◆◆◆◆◆◆	40.3%
33	11	◆◆◆◆◆◆◆◆◆◆◆	25.4%
32	3	◆◆◆	9.0%
31	0		4.5%
30	2	◆◆	4.5%
29	0		1.5%
28	0		1.5%
27	1	◆	1.5%
26	0		0.0%
25	0		0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION Green Valley Rd @ Paulsen Rd (Corralitas Cr to Casserly Rd) BY A-M

ROAD NO _____ DATE 5/30/07 DAY Mon BEGIN 2:15 PM END 2:35 PM

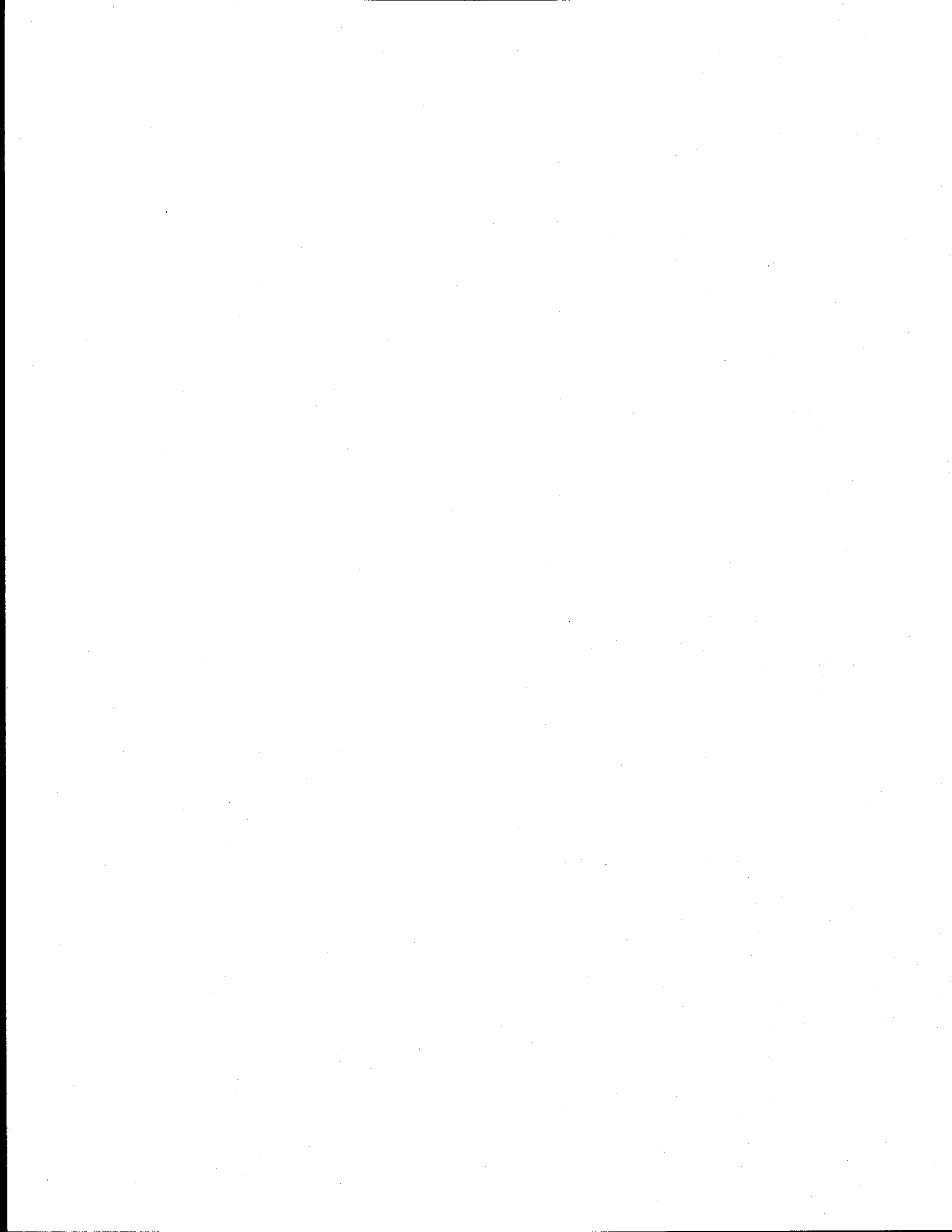
POSTED SPEED 35 mph WEATHER Partly Cloudy

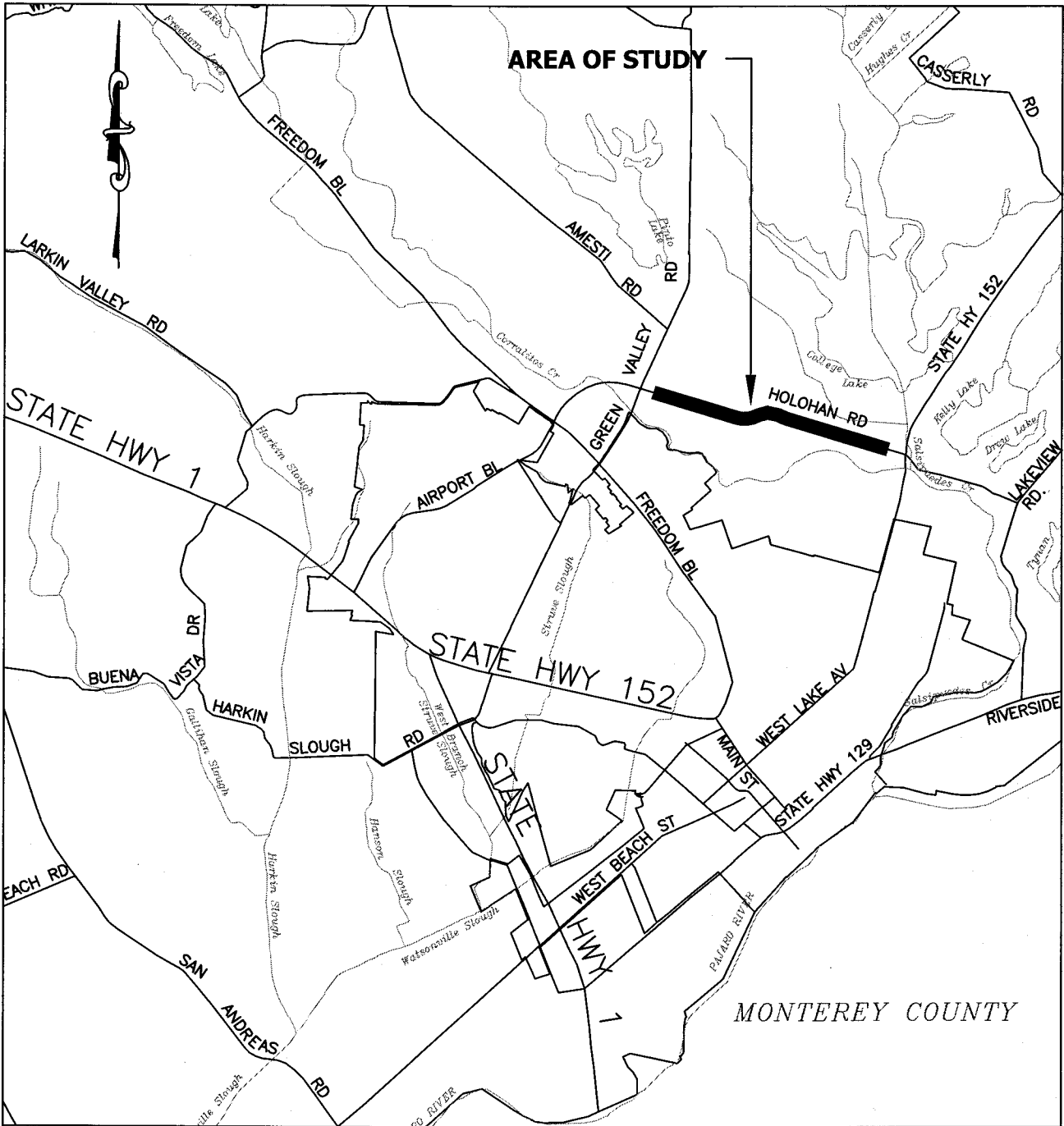
NUMBER OF LANES 2 GRADE 2% CALIBRATED

NUMBER OF VEHICLES

MPH	DIRECTION	TOTAL OF EACH SPEED	DIRECTION	TOTAL OF EACH SPEED
	→ South		NORTH ←	
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48				
47				
46		1		1
45		0		
44		0		
43		0		1
42		2		
41		0		
40		2		2
39		4		4
38		3		5
37		9		5
36		10		5
35		9		6
34		10		11
33		11		9
32		3		12
31		0		2
30		2		3
29		0		
28		0		5
27		1		
26				
25				2
24				
23				
22				
21				
20				
TOTAL		67	TOTAL 73	

47





SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
HOLOHAN ROAD
0.2 MILES EAST OF GREEN VALLEY ROAD TO LAKEN DRIVE (WEST)

TRAFFIC AND ENGINEERING REPORT
MARCH 2008

PURPOSE:

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

LOCATION:

Holohan Road from .2 miles east of Green Valley Road to Laken Drive (west).
(Speed Data collected 0.5 miles west of East Laken Drive)

PREVAILING SPEED DATA:

The existing posted speed limit is 45 mph and is radar enforced.

The prevailing speeds are:

Direction	Westbound	Eastbound
85 th Percentile	47 mph	50 mph
Pace Speed	34-44 mph	40-50 mph
Average Speed	41.05 mph	44.20 mph

ANALYSIS:

The prevailing 85th percentile speeds are 47 MPH and 50 MPH depending on the direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 50 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 45 MPH. The factors justifying a further reduction are high volume of traffic, a route to and from area schools, and shoulder conditions with pedestrian traffic in the roadway without sidewalks. It is recommended that the existing 45 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

Route: Holohan Rd
From: Green Valley Rd
To: Laken Dr (west)
Direction: Eastbound
Weather: Partly Cloudy
Posted Speed: 45mph
Begin time: 2:50 PM
End time: 3:05 PM

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
		51	4	◆◆◆◆	100.0%
		50	7	◆◆◆◆◆◆◆	95.2%
		49	7	◆◆◆◆◆◆◆	86.7%
		48	1	◆	78.3%
		47	8	◆◆◆◆◆◆◆◆	77.1%
		46	6	◆◆◆◆◆◆	67.5%
		45	7	◆◆◆◆◆◆◆	60.2%
		44	8	◆◆◆◆◆◆◆◆	51.8%
		43	5	◆◆◆◆◆	42.2%
		42	11	◆◆◆◆◆◆◆◆◆◆◆	36.1%
		41	2	◆◆	22.9%
		40	5	◆◆◆◆◆	20.5%
		39	4	◆◆◆◆	14.5%
		38	3	◆◆◆	9.6%
		37	1	◆	6.0%
		36	1	◆	4.8%
		35	1	◆	3.6%
		34	2	◆◆	2.4%
		33	0		0.0%
		32	0		0.0%
		31	0		0.0%
		30	0		0.0%
CRITICAL SPEED	50				
AVERAGE SPEED	44.20				
MEDIAN SPEED	44.0				
STANDARD DEVIATION	4.26				
PACE RANGE	40 - 50				
PERCENTAGE IN PACE	72.3%				
TOTAL # OF AUTOS	83				

RADAR SPEED SURVEY

Route: From: To: Direction: Weather: Posted Speed: Begin time: End time:	Holohan Rd Green Valley Rd Laken Dr (west) Westbound Partly Cloudy 45mph 2:50 PM 3:05 PM	MPH 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33	# of Vehicles 2 0 1 4 2 1 1 1 3 4 5 2 6 10 12 4 5 1 3 5 1		Percentage 100.0% 97.4% 97.4% 96.1% 90.8% 88.2% 86.8% 85.5% 84.2% 82.9% 78.9% 73.7% 67.1% 64.5% 56.6% 43.4% 27.6% 22.4% 15.8% 14.5% 10.5% 3.9%
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CRITICAL SPEED AVERAGE SPEED MEDIAN SPEED STANDARD DEVIATION PACE RANGE PERCENTAGE IN PACE TOTAL # OF AUTOS	47 41.05 40.0 5.34 34 - 44 69.7% 76
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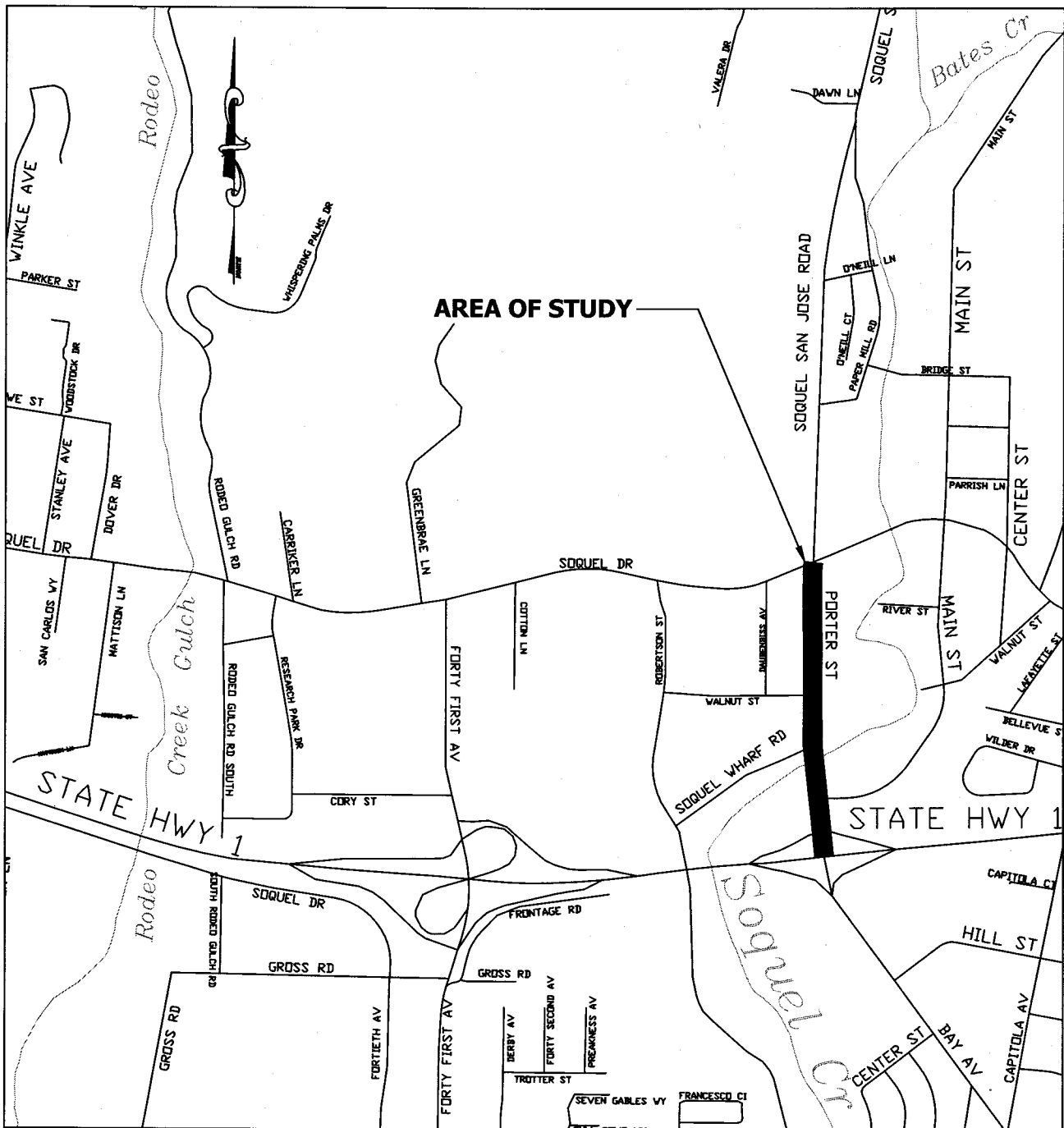
RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION Holohan Rd @ 0.2 Miles East of Greenvally to Larkin Dr BY A-M
 ROAD NO _____ DATE 5/30/07 DAY mon BEGIN 2:50pm END 3:05 PM
 POSTED SPEED 45 mph WEATHER Partly cloudy
 NUMBER OF LANES 2 GRADE 2% CALIBRATED

NUMBER OF VEHICLES

MPH	DIRECTION	TOTAL OF EACH SPEED	DIRECTION	TOTAL OF EACH SPEED
	→ E		W ←	
60				
59				
58				
57				
56				
55				
54				2
53				
52				1
51		4		4
50		7		2
49		7		1
48		1		1
47		8		1
46		6		1
45		7		3
44		8		4
43		5		5
42				2
41		2		6
40		5		10
39		4		12
38		3		4
37		1		5
36		1		1
35		1		3
34		2		5
33				1
32				
31				1
30				1
29				
28				
27				
26				
25				
24				
23				
22				
21				
20				
TOTAL		83	TOTAL 76	





SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
PORTER STREET
STATE HIGHWAY 1 TO SOQUEL DRIVE

TRAFFIC AND ENGINEERING REPORT
MARCH 2008

PURPOSE:

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

LOCATION:

Porter Street from State Highway One to Soquel Drive. (Speed Data collected at 2800 Porter Street)

PREVAILING SPEED DATA:

The existing posted speed limit is 25 mph and is radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	30 mph	29 mph
Pace Speed	22-32 mph	23-33 mph
Average Speed	26.53 mph	26.25 mph

ANALYSIS:

The prevailing 85th percentile speeds are 30 MPH and 29 MPH depending on the direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 30 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 25 MPH. The factors justifying a further reduction are high volume of traffic, major arterial with numerous driveways, and a route to and from area schools. It is recommended that the existing 25 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Porter Street				
From:	State Highway 1	33	1	◆	100.0%
To:	Soquel Drive	32	1	◆	98.4%
Direction:	Northbound	31	5	◆◆◆◆◆	96.8%
Weather:	Sunny	30	7	◆◆◆◆◆◆◆	88.7%
Posted Speed:	25 MPH	29	4	◆◆◆◆	77.4%
Begin time:	10:20 AM	28	5	◆◆◆◆◆	71.0%
End time:	10:40 AM	27	4	◆◆◆◆	62.9%
		26	9	◆◆◆◆◆◆◆◆◆	56.5%
		25	10	◆◆◆◆◆◆◆◆◆◆	41.9%
		24	7	◆◆◆◆◆◆◆	25.8%
		23	6	◆◆◆◆◆◆	14.5%
		22	0		4.8%
		21	1	◆	4.8%
		20	2	◆◆	3.2%
		19	0		0.0%
CRITICAL SPEED	30	18	0		0.0%
AVERAGE SPEED	26.53	17	0		0.0%
MEDIAN SPEED	26.0	16	0		0.0%
STANDARD DEVIATION	3.01	15	0		0.0%
PACE RANGE	22 - 32				
PERCENTAGE IN PACE	91.9%				
TOTAL # OF AUTOS	62				

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Porter Street				
From:	State Highway 1	33	1	◆	100.0%
To:	Soquel Drive	32	0		98.4%
Direction:	Southbound	31	2	◆◆	98.4%
Weather:	Sunny	30	5	◆◆◆◆◆	95.1%
Posted Speed:	25 MPH	29	5	◆◆◆◆◆	86.9%
Begin time:	10:20 AM	28	3	◆◆◆	78.7%
End time:	10:40 AM	27	8	◆◆◆◆◆◆◆◆	73.8%
		26	11	◆◆◆◆◆◆◆◆◆◆◆◆	60.7%
		25	12	◆◆◆◆◆◆◆◆◆◆◆◆◆◆	42.6%
		24	7	◆◆◆◆◆◆◆	23.0%
		23	5	◆◆◆◆◆	11.5%
		22	0		3.3%
		21	2	◆◆	3.3%
		20	0		0.0%
		19	0		0.0%
CRITICAL SPEED	29	18	0		0.0%
AVERAGE SPEED	26.25	17	0		0.0%
MEDIAN SPEED	26.0	16	0		0.0%
STANDARD DEVIATION	2.50	15	0		0.0%
PACE RANGE	23 - 33				
PERCENTAGE IN PACE	95.1%				
TOTAL # OF AUTOS	61				

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION PORTER (B/W SOQUEL & HWY 1) BY JBL

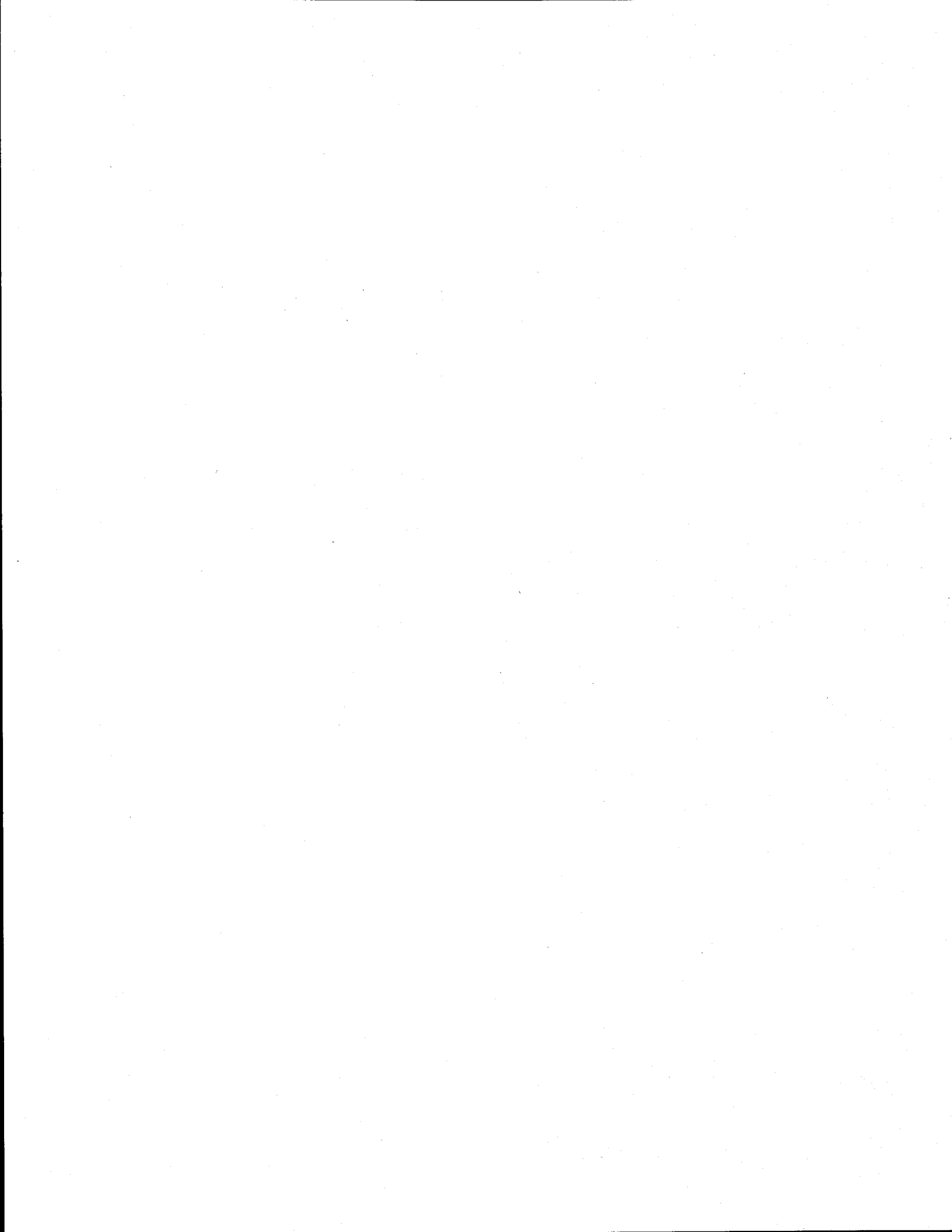
ROAD NO _____ DATE 5-24-07 DAY THU BEGIN 1020 END 1040

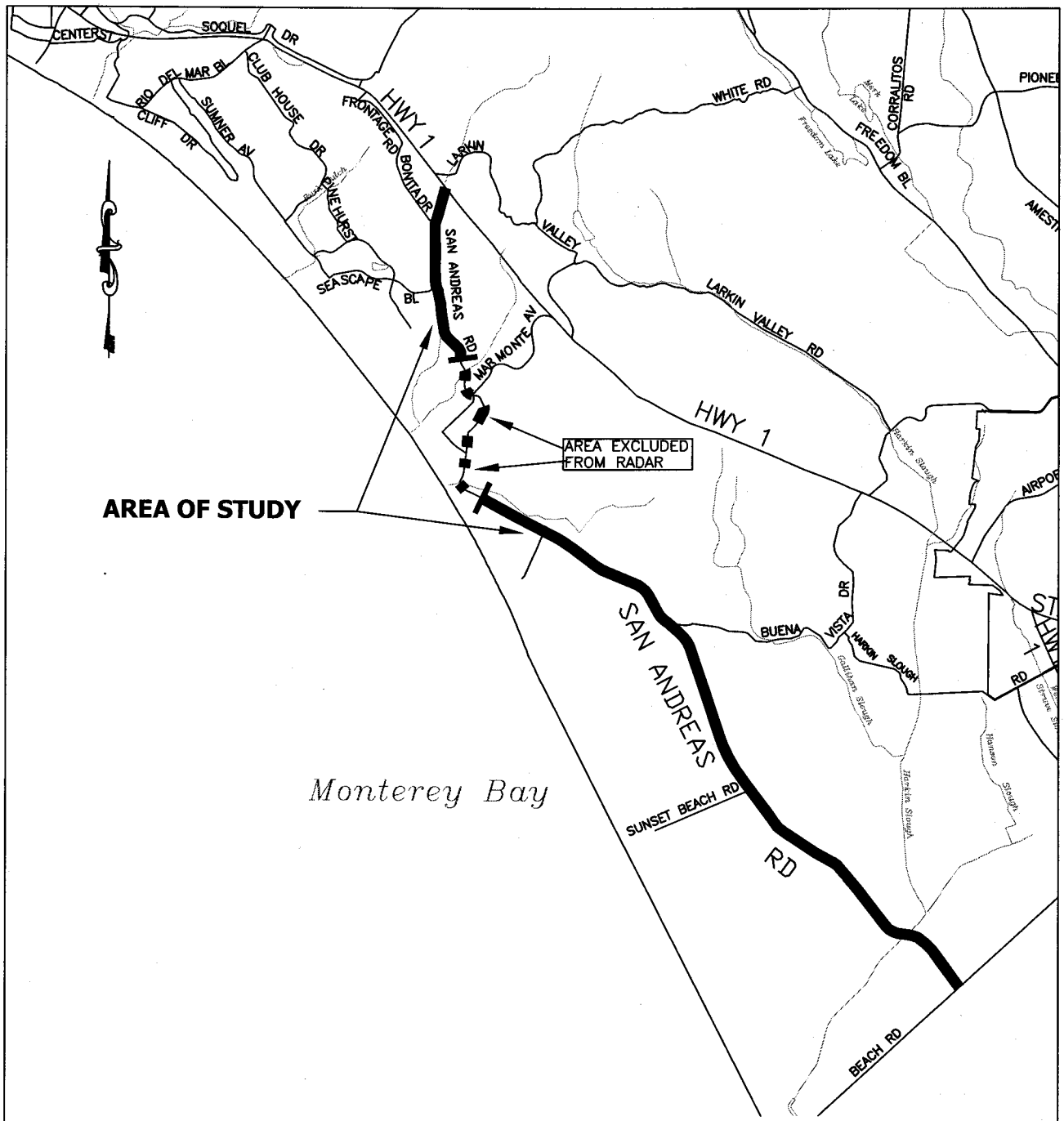
POSTED SPEED 25 WEATHER SUNNY

NUMBER OF LANES 2 VI MIDDLE TURN LANES GRADE FLAT CALIBRATED

NUMBER OF VEHICLES

MPH	DIRECTION	TOTAL OF EACH SPEED	DIRECTION	TOTAL OF EACH SPEED	
	to HWY 1 → S		N ← From HWY 1		
60					
59					
58					
57					
56					
55					
54					
53					
52					
51					
50					
49					
48					
47					
46					
45					
44					
43					
42					
41					
40					
39					
38					
37					
36					
35					
34					
33		1		1	
32		0		1	
31		2		5	
30		5		7	
29		5		4	
28		3		5	
27	-	8	-	4	
26	- -	11	- -	9	
25	- -	12	- -	10	
24	-	7	-	7	
23		5		6	
22		0		0	
21		2		1	
20				2	
TOTAL		61	TOTAL		62





**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
 RADAR SPEED SURVEY
 SAN ANDREAS ROAD
 STATE HIGHWAY 1 TO BEACH ROAD**

TRAFFIC AND ENGINEERING REPORT
MARCH 2008

PURPOSE:

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

LOCATION:

San Andreas Road from State Highway One to 0.25 miles northwesterly of Mar Monte Avenue–Playa Boulevard. (Speed Data collected south of Byers Lane)

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	45 mph	48 mph
Pace Speed	38-48 mph	40-50 mph
Average Speed	41.57 mph	43.78 mph

ANALYSIS:

The prevailing 85th percentile speeds are 48 MPH and 45 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 California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 40 MPH. The factors justifying a further reduction are a safe stopping sight distance, 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

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	San Andreas Road				
From:	State Highway 1	54	1	◆	100.0%
To:	0.25 mi. NW. of	53	0		98.6%
	Mar Monte Avenue	52	0		98.6%
Direction:	Northbound	51	1	◆	98.6%
Weather:	Sunny	50	0		97.3%
Posted Speed:	40 MPH	49	2	◆◆	97.3%
Begin time:	3:30 AM	48	2	◆◆	94.6%
End time:	4:15 AM	47	1	◆	91.9%
		46	4	◆◆◆◆	90.5%
		45	3	◆◆◆	85.1%
		44	5	◆◆◆◆◆	81.1%
		43	11	◆◆◆◆◆◆◆◆◆◆◆	74.3%
		42	8	◆◆◆◆◆◆◆◆	59.5%
		41	6	◆◆◆◆◆◆	48.6%
		40	10	◆◆◆◆◆◆◆◆◆◆	40.5%
CRITICAL SPEED	45	39	5	◆◆◆◆◆	27.0%
AVERAGE SPEED	41.57	38	7	◆◆◆◆◆◆◆	20.3%
MEDIAN SPEED	42.0	37	0		10.8%
STANDARD DEVIATION	4.07	36	2	◆◆	10.8%
PACE RANGE	38 - 48	35	3	◆◆◆	8.1%
PERCENTAGE IN PACE	81.1%	34	0		4.1%
TOTAL # OF AUTOS	74	33	2	◆◆	4.1%
		32	1	◆	1.4%

RADAR SPEED SURVEY



		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	San Andreas Road				
From:	State Highway 1	51	3	◆◆◆	100.0%
To:	0.25 mi. NW. of Mar Monte Avenue	50	2	◆◆	95.8%
Direction:	Southbound	49	3	◆◆◆	93.1%
Weather:	Sunny	48	3	◆◆◆	88.9%
Posted Speed:	40 MPH	47	5	◆◆◆◆◆	84.7%
Begin time:	3:30 PM	46	10	◆◆◆◆◆◆◆◆◆◆	77.8%
End time:	4:15 PM	45	7	◆◆◆◆◆◆◆	63.9%
		44	6	◆◆◆◆◆◆	54.2%
		43	6	◆◆◆◆◆◆	45.8%
		42	6	◆◆◆◆◆◆	37.5%
		41	7	◆◆◆◆◆◆◆	29.2%
		40	5	◆◆◆◆◆	19.4%
		39	3	◆◆◆	12.5%
		38	2	◆◆	8.3%
		37	1	◆	5.6%
CRITICAL SPEED	48	36	2	◆◆	4.2%
AVERAGE SPEED	43.78	35	1	◆	1.4%
MEDIAN SPEED	44.0	34	0		0.0%
STANDARD DEVIATION	3.77	33	0		0.0%
PACE RANGE	40 - 50	32	0		0.0%
PERCENTAGE IN PACE	80.6%	31	0		0.0%
TOTAL # OF AUTOS	72	30	0		0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION SAN ANTONIO (SOUTH OF BYERS LANE) BY JBL
 ROAD NO _____ DATE 5-16-07 DAY WED BEGIN 3:30 END 4:15
 POSTED SPEED 30 WEATHER SUNNY
 NUMBER OF LANES 2 GRADE FLAT CALIBRATED

2.
 40

NUMBER OF VEHICLES

MPH	DIRECTION FROM <small>Hand</small> 	TOTAL OF EACH SPEED	DIRECTION TO <small>to Hwy</small> 	TOTAL OF EACH SPEED	
60					
59					
58					
57					
56					
55					
54				1	
53				0	
52				0	
51		3		1	
50		2			
49		3		2	
48		3		2	
47	-	5		1	
46	- -	10		4	
45	-	7		3	
44	-	6	-	5	
43	-	6	- -	11	
42	-	6	-	8	
41	-	7	-	6	
40	-	5	- -	10	
39		3		5	
38		2	-	7	
37		1		0	
36		2		2	
35		1		3	
34				0	
33				2	
32				1	
31					
30					
29					
28					
27					
26					
25					
24					
23					
22					
21					
20-					
TOTAL		72	TOTAL		74

TRAFFIC AND ENGINEERING REPORT
MARCH 2008

PURPOSE:

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

LOCATION:

San Andreas Road from 0.35 miles southeasterly of the SPRR underpass at Manreasa Beach to Beach Road. (Speed Data collected south of Heather Point Lane)

PREVAILING SPEED DATA:

The existing posted speed limit is 45 mph and is radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	48 mph	45 mph
Pace Speed	38-48 mph	33-43 mph
Average Speed	43.08 mph	39.54 mph

ANALYSIS:

The prevailing 85th percentile speeds are 48 MPH and 45 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. It is recommended that the existing 45 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	San Andreas Rd.				
From:	.35 mi. s. of SPRR	56	2	◆◆	100.0%
To:	Beach Dr	55	0		96.6%
Direction:	Northbound	54	0		96.6%
Weather:	Sunny	53	0		96.6%
Posted Speed:	45	52	1	◆	96.6%
Begin time:	2:00 PM	51	3	◆◆◆	94.9%
End time:	2:35 PM	50	1	◆	89.8%
		49	1	◆	88.1%
		48	2	◆◆	86.4%
		47	5	◆◆◆◆◆	83.1%
		46	5	◆◆◆◆◆	74.6%
		45	5	◆◆◆◆◆	66.1%
		44	6	◆◆◆◆◆◆	57.6%
		43	3	◆◆◆	47.5%
		42	4	◆◆◆◆	42.4%
		41	4	◆◆◆◆	35.6%
CRITICAL SPEED	48	41	4	◆◆◆◆	28.8%
AVERAGE SPEED	43.08	40	3	◆◆◆	23.7%
MEDIAN SPEED	44.0	39	1	◆	22.0%
STANDARD DEVIATION	6.28	38	6	◆◆◆◆◆◆	11.9%
PACE RANGE	38 - 48	37	3	◆◆◆	6.8%
PERCENTAGE IN PACE	71.2%	36	1	◆	5.1%
TOTAL # OF AUTOS	59	14	1	◆	3.4%
		34	1	◆	1.7%
		33	1	◆	0.0%
		32	0		

RADAR SPEED SURVEY

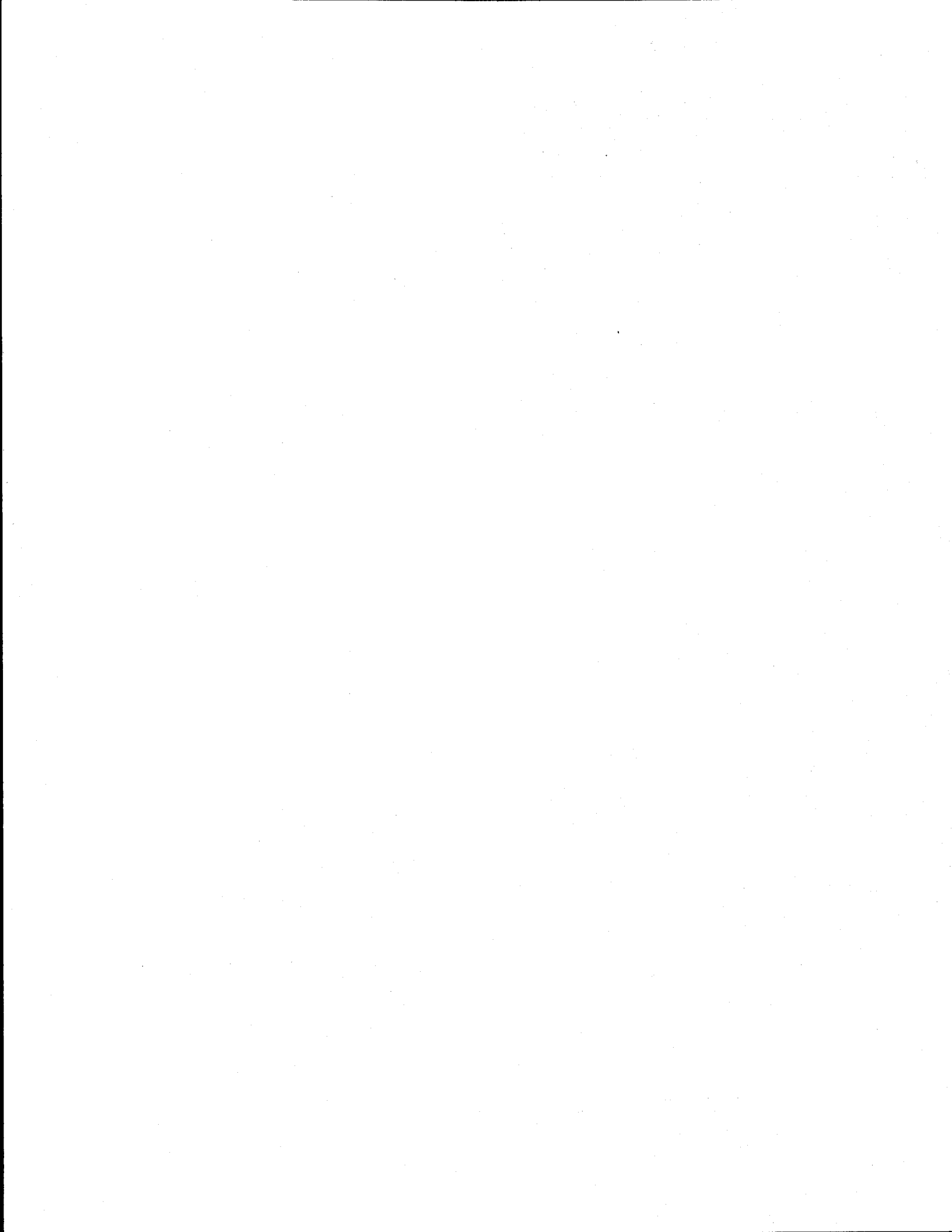
		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	San Andreas Rd.				
From:	0.35 mi. s. of SPRR	49	1	◆	100.0%
To:	Beach Rd	48	2	◆◆	98.1%
Direction:	Southbound	47	2	◆◆	94.4%
Weather:	Sunny	46	2	◆◆	90.7%
Posted Speed:	45	45	2	◆◆	87.0%
Begin time:	2:00 PM	44	4	◆◆◆◆	83.3%
End time:	2:35 PM	43	1	◆	75.9%
		42	4	◆◆◆◆	74.1%
		41	5	◆◆◆◆◆	66.7%
		40	3	◆◆◆	57.4%
		39	4	◆◆◆◆	51.9%
		38	5	◆◆◆◆◆	44.4%
		37	5	◆◆◆◆◆	35.2%
		36	2	◆◆	25.9%
		35	3	◆◆◆	22.2%
CRITICAL SPEED	45	34	3	◆◆◆	16.7%
AVERAGE SPEED	39.54	33	3	◆◆◆	11.1%
MEDIAN SPEED	39.0	32	2	◆◆	5.6%
STANDARD DEVIATION	4.74	31	0		1.9%
PACE RANGE	33 - 43	30	0		1.9%
PERCENTAGE IN PACE	68.5%	29	1	◆	1.9%
TOTAL # OF AUTOS	54	14	0		0.0%

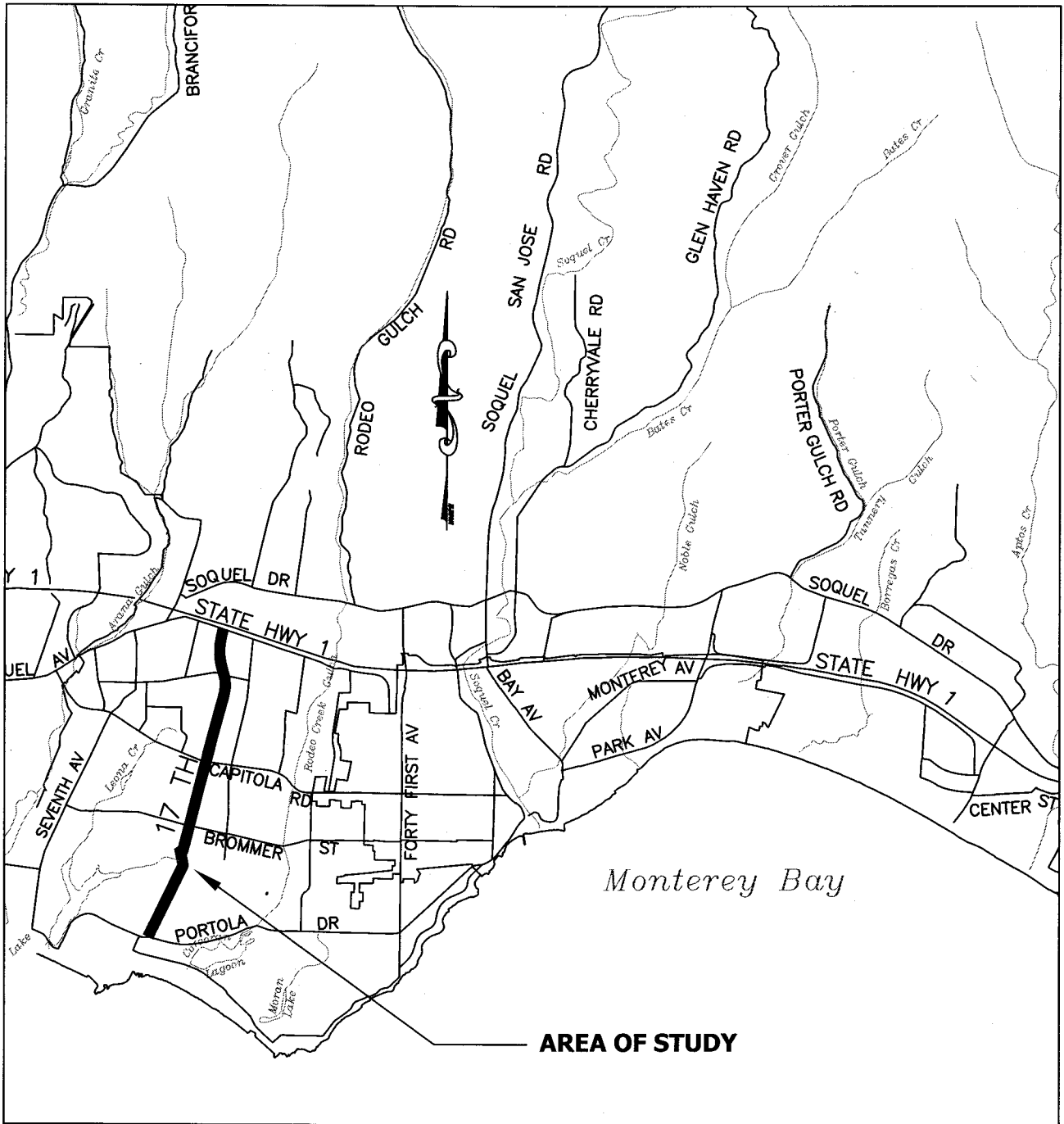
RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION SAN ANDREAS RD (From Heather Point Ln to Sand Dollar) BY A-M
 ROAD NO _____ DATE 8/21 DAY Tue BEGIN 2:00 END 2:35
 POSTED SPEED 45 MPH WEATHER SUNNY
 NUMBER OF LANES 2 GRADE 2% CALIBRATED ✓

NUMBER OF VEHICLES

MPH	DIRECTION	TOTAL OF EACH SPEED	DIRECTION	TOTAL OF EACH SPEED
	→ E		W ←	
60				
59				
58				
57				
56				2
55				0
54				0
53				0
52				1
51				3
50				1
49		1		1
48		2		2
47		2	 	5
46		2	 	5
45		2	 	5
44		4	 	6
43		1		3
42		4		4
41	 	5		4
40		3		3
39		4		1
38	 	5	 	6
37	 	5		3
36		2		1
35		3		1
34		3		1
33		3		1
32		2		1
31		0		
30		0		
29		1		
28				
27				
26				
25				
24				
23				
22				
21				
20-				
TOTAL		54	TOTAL 59	





AREA OF STUDY

**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
 RADAR SPEED SURVEY
 SEVENTEENTH AVENUE
 PORTOLA DRIVE TO SOQUEL AVENUE**

TRAFFIC AND ENGINEERING REPORT
MARCH 2008

PURPOSE:

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

LOCATION:

Seventeenth Avenue from Portola Drive to Capitola Road. (Speed Data collected between Portola Drive and Brommer Street)

PREVAILING SPEED DATA:

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

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	33 mph	33 mph
Pace Speed	23-33 mph	27-37 mph
Average Speed	29.54 mph	30.58 mph

ANALYSIS:

The prevailing 85th percentile speeds are 33 MPH in both directions 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 California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 30 MPH. The factors justifying a further reduction are prima-facie residential district, a route to and from area schools, high volume of pedestrian and bicycle traffic, numerous driveways, and pedestrian and bicycle access route to adjacent schools. 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

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Seventeenth Avenue				
From:	Portola Drive	34	2	◆◆	100.0%
To:	Capitola Road	33	5	◆◆◆◆◆	97.0%
Direction:	Northbound	32	6	◆◆◆◆◆◆	89.6%
Weather:	Sunny	31	7	◆◆◆◆◆◆◆	80.6%
Posted Speed:	30 MPH	30	14	◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆	70.1%
Begin time:	1:35 PM	29	12	◆◆◆◆◆◆◆◆◆◆◆◆	49.3%
End time:	2:05 PM	28	8	◆◆◆◆◆◆◆◆	31.3%
		27	9	◆◆◆◆◆◆◆◆◆	19.4%
		26	2	◆◆	6.0%
		25	2	◆◆	3.0%
		24	0		0.0%
		23	0		0.0%
		22	0		0.0%
		21	0		0.0%
		20	0		0.0%
CRITICAL SPEED	33	19	0		0.0%
AVERAGE SPEED	29.54	18	0		0.0%
MEDIAN SPEED	30.0	17	0		0.0%
STANDARD DEVIATION	2.13	16	0		0.0%
PACE RANGE	23 - 33	15	0		0.0%
PERCENTAGE IN PACE	89.6%		0		0.0%
TOTAL # OF AUTOS	67		0		

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Seventeenth Avenue				
From:	Portola Drive	37	1	◆	100.0%
To:	Capitola Road	36	1	◆	98.4%
Direction:	Southbound	35	2	◆◆	96.8%
Weather:	Sunny	34	3	◆◆◆	93.5%
Posted Speed:	30 MPH	33	6	◆◆◆◆◆◆	88.7%
Begin time:	1:35 PM	32	9	◆◆◆◆◆◆◆◆◆	79.0%
End time:	2:05 PM	31	8	◆◆◆◆◆◆◆◆	64.5%
		30	8	◆◆◆◆◆◆◆◆	51.6%
		29	13	◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆	38.7%
		28	6	◆◆◆◆◆◆	17.7%
		27	3	◆◆◆	8.1%
		26	1	◆	3.2%
		25	1	◆	1.6%
		24	0		0.0%
		23	0		0.0%
CRITICAL SPEED	33	22	0		0.0%
AVERAGE SPEED	30.58	21	0		0.0%
MEDIAN SPEED	30.0	20	0		0.0%
STANDARD DEVIATION	2.45	19	0		0.0%
PACE RANGE	27 - 37	18	0		0.0%
PERCENTAGE IN PACE	95.2%	17	0		0.0%
TOTAL # OF AUTOS	62	16	0		0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION SEVENTEENTH (PORTOLA & BROMMER) BY J6L

ROAD NO _____ DATE 5-17-07 DAY THU BEGIN 1:35 END 2:05

POSTED SPEED 30 WEATHER SUNNY

NUMBER OF LANES 2 MEDIAN TURN LANE GRADE FLAT CALIBRATED ✓

NUMBER OF VEHICLES

MPH	DIRECTION	TOTAL OF EACH SPEED	DIRECTION	TOTAL OF EACH SPEED
	S → TO PORTOLA		N ← FROM PORTOLA	
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48				
47				
46				
45				
44				
43				
42				
41				
40				
39				
38				
37		1		
36		1		
35		2		
34		3		2
33	-	6	-	5
32	-	9	-	6
31	-	8	-	7
30	-	8	- -	14
29	- -	13	- -	12
28	-	6	-	8
27		3	-	9
26		1		2
25		1		2
24				
23				
22				
21				
20-				
TOTAL		62	TOTAL 67	

TRAFFIC AND ENGINEERING REPORT
MARCH 2008

PURPOSE:

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

LOCATION:

Seventeenth Avenue from Capitola Road to Soquel Avenue. (Speed Data collected at Cozy Court)

PREVAILING SPEED DATA:

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

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	35 mph	34 mph
Pace Speed	27-37 mph	26-36 mph
Average Speed	31.75 mph	31.25 mph

ANALYSIS:

The prevailing 85th percentile speeds are 34 MPH and 35 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 California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 30 MPH. The factors justifying a further reduction are prima-facie residential district, numerous driveways and limited sight distance for vehicles entering the roadway due to parking along the road, a route to and from area schools, and high volume of pedestrian and bicycle traffic. 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

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Seventeenth Avenue				
From:	Capitola Road	45	1	◆	100.0%
To:	Soquel Avenue	44	0		98.3%
Direction:	Northbound	43	0		98.3%
Weather:	Sunny	42	0		98.3%
Posted Speed:	30 MPH	41	0		98.3%
Begin time:	9:40 AM	40	0		98.3%
End time:	10:05 AM	39	0		98.3%
		38	2	◆◆	98.3%
		37	0		94.9%
		36	5	◆◆◆◆◆	94.9%
		35	4	◆◆◆◆	86.4%
		34	4	◆◆◆◆	79.7%
		33	7	◆◆◆◆◆◆◆	72.9%
		32	2	◆◆	61.0%
		31	13	◆◆◆◆◆◆◆◆◆◆◆◆◆	57.6%
CRITICAL SPEED	35	30	8	◆◆◆◆◆◆◆◆	35.6%
AVERAGE SPEED	31.75	29	5	◆◆◆◆◆	22.0%
MEDIAN SPEED	31.0	28	2	◆◆	13.6%
STANDARD DEVIATION	3.49	27	2	◆◆	10.2%
PACE RANGE	27 - 37	26	3	◆◆◆	6.8%
PERCENTAGE IN PACE	88.1%	25	1	◆	1.7%
TOTAL # OF AUTOS	59	24	0		0.0%

RADAR SPEED SURVEY

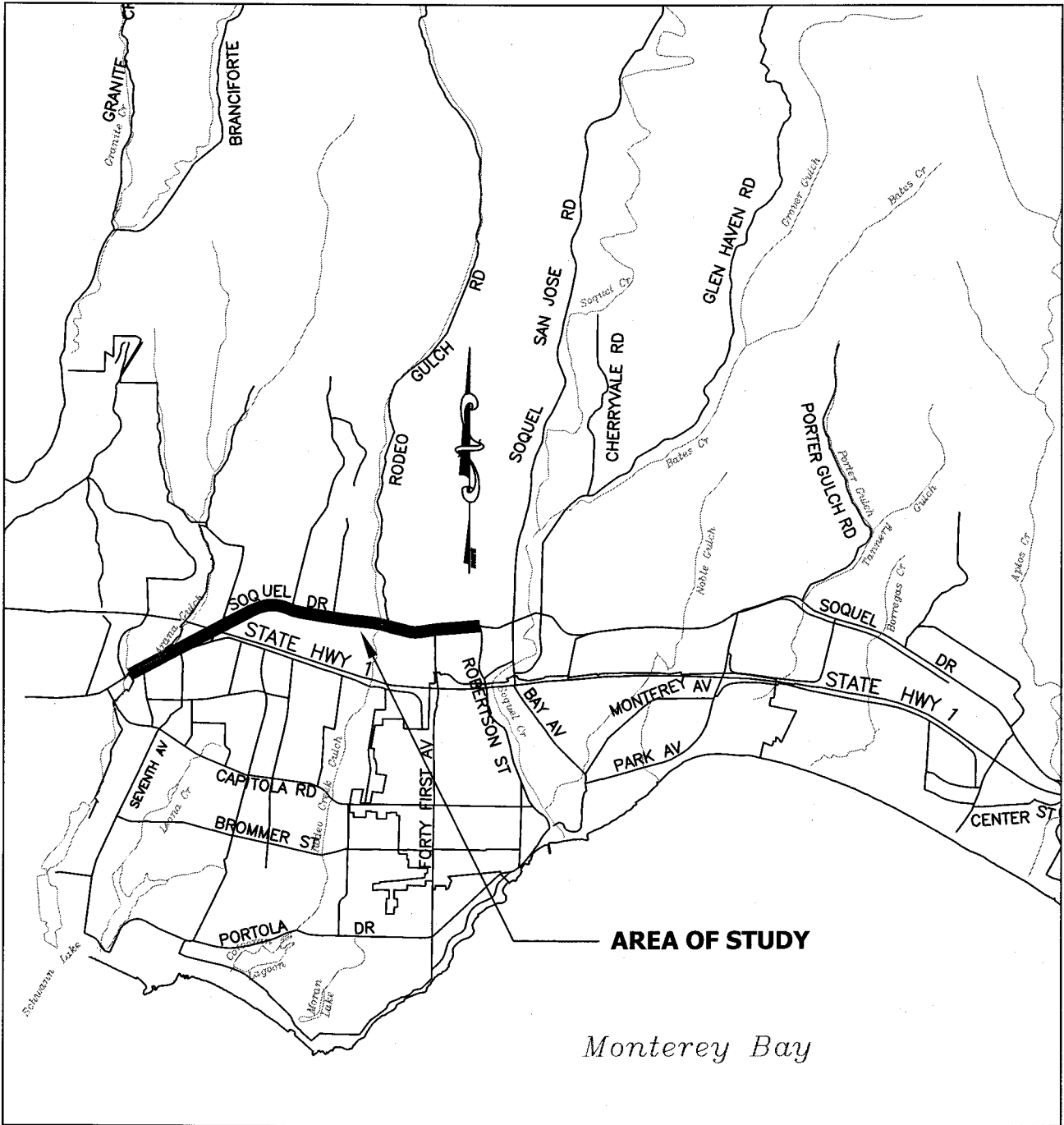
		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Seventeenth Avenue				
From:	Capitola Road	37	3	◆◆◆	100.0%
To:	Soquel Avenue	36	3	◆◆◆	94.6%
Direction:	Southbound	35	2	◆◆	89.3%
Weather:	Sunny	34	6	◆◆◆◆◆◆	85.7%
Posted Speed:	30 MPH	33	4	◆◆◆◆	75.0%
Begin time:	9:40 AM	32	7	◆◆◆◆◆◆◆	67.9%
End time:	10:05 AM	31	6	◆◆◆◆◆◆	55.4%
		30	6	◆◆◆◆◆◆	44.6%
		29	9	◆◆◆◆◆◆◆◆◆	33.9%
		28	4	◆◆◆◆	17.9%
		27	6	◆◆◆◆◆◆	10.7%
		26	0		0.0%
		25	0		0.0%
		24	0		0.0%
		23	0		0.0%
CRITICAL SPEED	34	22	0		0.0%
AVERAGE SPEED	31.25	21	0		0.0%
MEDIAN SPEED	31.0	20	0		0.0%
STANDARD DEVIATION	2.90	19	0		0.0%
PACE RANGE	26 - 36	18	0		0.0%
PERCENTAGE IN PACE	89.3%	17	0		0.0%
TOTAL # OF AUTOS	56	14	0		0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION 17th Ave (Capitola Rd - Soquel Ave @ Cozy Ct) BY A-M
 ROAD NO _____ DATE 6-11-07 DAY MON BEGIN 9:40 AM END 10:05 AM
 POSTED SPEED 30 MPH WEATHER SUNNY
 NUMBER OF LANES 2 GRADE 2% CALIBRATED

NUMBER OF VEHICLES				
MPH	DIRECTION	TOTAL OF EACH SPEED	DIRECTION	TOTAL OF EACH SPEED
	← N		→ S	
51				
50				
49				
48				
47				
46				
45		1		
44		0		
43		0		
42		0		
41		0		
40		0		
39		0		
38		2		
37		0		3
36	 	5		3
35		4		2
34		4	 	6
33	 	7		4
32		2	 	7
31	 	13	 	6
30	 	8	 	6
29	 	5	 	9
28		2		4
27		2	 	6
26		3		
25		1		
24				
23				
22				
21				
20				
19				
18				
17				
16				
15				
14				
13				
12				
11				
TOTAL		59	TOTAL 56	





AREA OF STUDY

Monterey Bay

**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
 RADAR SPEED SURVEY
 SOQUEL AVENUE / SOQUEL DRIVE
 SANTA CRUZ CITY LIMITS TO ROBERTSON STREET**

TRAFFIC AND ENGINEERING REPORT
MARCH 2008

PURPOSE:

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

LOCATION:

Soquel Avenue/Soquel Drive between Santa Cruz City Limits and Robertson Street (Speed Data collected west of Robertson Street)

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	38 mph	36 mph
Pace Speed	32-42 mph	29-39 mph
Average Speed	35.09 mph	32.36 mph

ANALYSIS:

The prevailing 85th percentile speeds are 38 MPH and 36 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. 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

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Soquel Avenue / Soquel Drive	45	1	◆	100.0%
From:	Santa Cruz City Limits	44	0		98.5%
To:	Robertson Street	43	1	◆	98.5%
Direction:	Westbound	42	0		96.9%
Weather:	Sunny	41	2	◆◆	96.9%
Posted Speed:	35 MPH	40	2	◆◆	93.8%
Begin time:	3:41 PM	39	3	◆◆◆	90.8%
End time:	4:17 PM	38	3	◆◆◆	86.2%
		37	9	◆◆◆◆◆◆◆◆◆	81.5%
		36	4	◆◆◆◆	67.7%
		35	12	◆◆◆◆◆◆◆◆◆◆◆◆◆◆	61.5%
		34	7	◆◆◆◆◆◆◆	43.1%
		33	7	◆◆◆◆◆◆◆	32.3%
		32	8	◆◆◆◆◆◆◆◆	21.5%
		31	2	◆◆	9.2%
CRITICAL SPEED	38	30	2	◆◆	6.2%
AVERAGE SPEED	35.09	29	1	◆	3.1%
MEDIAN SPEED	35.0	28	0		1.5%
STANDARD DEVIATION	3.28	27	1	◆	1.5%
PACE RANGE	32 - 42	26	0		0.0%
PERCENTAGE IN PACE	87.7%	25	0		0.0%
TOTAL # OF AUTOS	65	24	0		0.0%

RADAR SPEED SURVEY

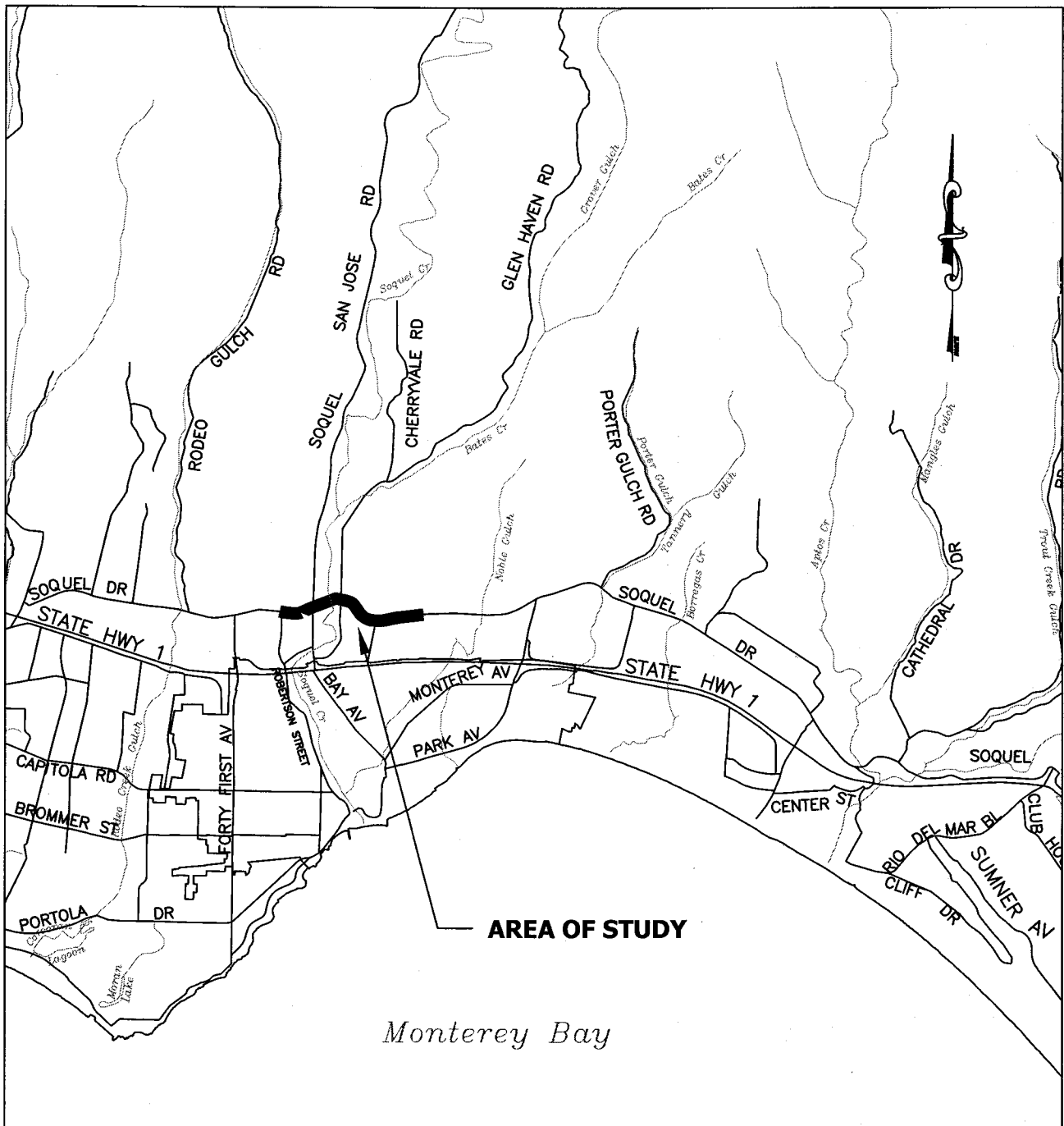
		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Soquel Avenue / Soquel Drive				
From:	Santa Cruz City Limits	39	1	◆	100.0%
To:	Robertson Street	38	2	◆◆	98.4%
Direction:	Eastbound	37	4	◆◆◆◆	95.1%
Weather:	Sunny	36	4	◆◆◆◆	88.5%
Posted Speed:	35 MPH	35	3	◆◆◆	82.0%
Begin time:	3:41 PM	34	3	◆◆◆	77.0%
End time:	4:17 PM	33	10	◆◆◆◆◆◆◆◆◆◆	72.1%
		32	10	◆◆◆◆◆◆◆◆◆◆	55.7%
		31	9	◆◆◆◆◆◆◆◆◆	39.3%
		30	6	◆◆◆◆◆◆	24.6%
		29	3	◆◆◆	14.8%
		28	2	◆◆	9.8%
		27	4	◆◆◆◆	6.6%
		26	0		0.0%
		25	0		0.0%
CRITICAL SPEED	36	24	0		0.0%
AVERAGE SPEED	32.36	23	0		0.0%
MEDIAN SPEED	32.0	22	0		0.0%
STANDARD DEVIATION	2.94	21	0		0.0%
PACE RANGE	29 - 39	20	0		0.0%
PERCENTAGE IN PACE	88.5%	19	0		0.0%
TOTAL # OF AUTOS	61	18	0		0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION SOQUEL DRIVE @ WEST OF ROBERTSON BY JGL
 ROAD NO _____ DATE 5.15.07 DAY TUE BEGIN 3:41 END 4:17
 POSTED SPEED 35 WEATHER SUNNY
 NUMBER OF LANES 4 GRADE _____ CALIBRATED

NUMBER OF VEHICLES

MPH	DIRECTION	TOTAL OF EACH SPEED	DIRECTION	TOTAL OF EACH SPEED
	E ← FROM 41st		TO 41st → W	
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48				
47				
46				
45				1
44				
43				1
42				
41				2
40				2
39		1		3
38		2		3
37		4	-	9
36		4		4
35		3	- -	12
34		3	-	7
33	- -	10	-	7
32	- -	10	-	8
31	-	9		2
30	-	6		2
29		3		1
28		2		
27		4		1
26				
25				
24				
23				
22				
21				
20-				
TOTAL		61	TOTAL 65	



AREA OF STUDY

Monterey Bay

**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
 RADAR SPEED SURVEY
 SOQUEL DRIVE
 ROBERTSON STREET TO ROSEDALE AVENUE**

TRAFFIC AND ENGINEERING REPORT
MARCH 2008

PURPOSE:

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

LOCATION:

Soquel Drive between Robertson Street and Rosedale Avenue (Speed Data collected west of Soquel Bridge)

PREVAILING SPEED DATA:

The existing posted speed limit is 25 MPH and is radar enforced.

The prevailing speeds are:

Direction	Westbound	Eastbound
85 th Percentile	30 mph	32 mph
Pace Speed	22-32 mph	24-34 mph
Average Speed	26.80 mph	28.47 mph

ANALYSIS:

The prevailing 85th percentile speeds are 32 MPH and 30 MPH depending on the direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 30 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 25 MPH. The factors justifying a further reduction are prima facie business district, a route to and from area schools, high volume of pedestrian and bicycle traffic, numerous driveways, and recent accident history. It is recommended that the existing 25 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Soquel Drive				
From:	Robertson St	36	1	◆	100.0%
To:	Rosedale Ave	35	0		98.3%
Direction:	Westbound	34	1	◆	98.3%
Weather:	Sunny	33	0		96.6%
Posted Speed:	25	32	2	◆◆	96.6%
Begin time:	10:25	31	0		93.2%
End time:	10:50	30	5	◆◆◆◆◆	93.2%
		29	5	◆◆◆◆◆	84.7%
		28	10	◆◆◆◆◆◆◆◆◆◆	76.3%
		27	3	◆◆◆	59.3%
		26	10	◆◆◆◆◆◆◆◆◆◆	54.2%
		25	12	◆◆◆◆◆◆◆◆◆◆◆◆	37.3%
		24	4	◆◆◆◆	16.9%
		23	3	◆◆◆	10.2%
		22	3	◆◆◆	5.1%
CRITICAL SPEED	30	21	0		0.0%
AVERAGE SPEED	26.80	20	0		0.0%
MEDIAN SPEED	26.0	19	0		0.0%
STANDARD DEVIATION	2.85	18	0		0.0%
PACE RANGE	22 - 32	17	0		0.0%
PERCENTAGE IN PACE	93.2%	16	0		0.0%
TOTAL # OF AUTOS	59	15	0		0.0%

RADAR SPEED SURVEY

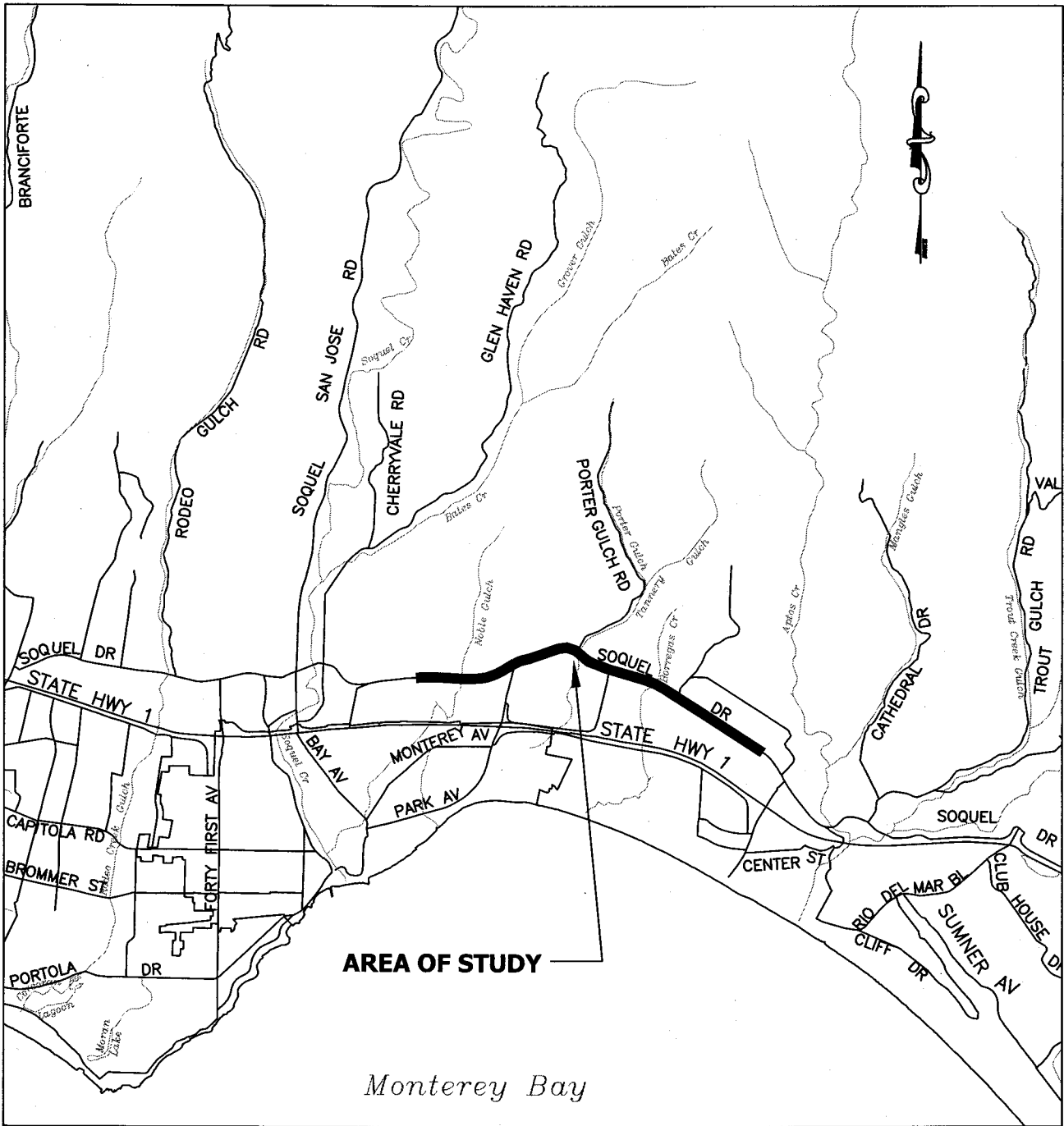
		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Soquel Drive			
From:	Robertson St	36	1 ◆	100.0%
To:	Rosedale Ave	35	1 ◆	98.1%
Direction:	Eastbound	34	3 ◆◆◆	96.2%
Weather:	Sunny	33	1 ◆	90.6%
Posted Speed:	25	32	3 ◆◆◆	88.7%
Begin time:	10:25	31	5 ◆◆◆◆◆	83.0%
End time:	10:50	30	4 ◆◆◆◆	73.6%
		29	7 ◆◆◆◆◆◆◆	66.0%
		28	7 ◆◆◆◆◆◆◆	52.8%
		27	4 ◆◆◆◆	39.6%
		26	6 ◆◆◆◆◆◆	32.1%
		25	6 ◆◆◆◆◆◆	20.8%
		24	4 ◆◆◆◆	9.4%
		23	1 ◆	1.9%
		22	0	0.0%
CRITICAL SPEED	32	21	0	0.0%
AVERAGE SPEED	28.47	20	0	0.0%
MEDIAN SPEED	28.0	19	0	0.0%
STANDARD DEVIATION	3.17	18	0	0.0%
PACE RANGE	24 - 34	17	0	0.0%
PERCENTAGE IN PACE	88.7%	16	0	0.0%
TOTAL # OF AUTOS	53	15	0	0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION SOQUEL DR (Porter st to main st) BY A-M
 ROAD NO _____ DATE 9/4/07 DAY Tue BEGIN 10:25 AM END 10:50 AM
 POSTED SPEED 25 m/hour WEATHER SUNNY
 NUMBER OF LANES 4 GRADE 3% CALIBRATED

NUMBER OF VEHICLES

MPH	DIRECTION	TOTAL OF EACH SPEED	DIRECTION	TOTAL OF EACH SPEED	
	→ E		W ←		
60					
59					
58					
57					
56					
55					
54					
53					
52					
51					
50					
49					
48					
47					
46					
45					
44					
43					
42					
41					
40					
39					
38					
37					
36				1	
35				0	
34		3		1	
33		1		0	
32		3		2	
31	 	5		0	
30		4	 	5	
29	 	7	 	5	
28	 	7	 	10	
27		4	 	3	
26	 	6	 	10	
25	 	6	 	12	
24		4		4	
23		1		3	
22				3	
21					
20					
TOTAL		53	TOTAL		59



AREA OF STUDY

Monterey Bay

**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
 RADAR SPEED SURVEY
 SOQUEL DRIVE
 ROSEDALE AVENUE TO WEST LEDYARD WAY**

TRAFFIC AND ENGINEERING REPORT
MARCH 2008

PURPOSE:

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

LOCATION:

Soquel Drive between Rosedale Avenue and Park Avenue (Speed Data collected at Maplethorpe Lane)

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	42 mph
Pace Speed	33-43 mph	33-43 mph
Average Speed	37.46 mph	38.47 mph

ANALYSIS:

The prevailing 85th percentile speeds are 42 MPH and 41 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 California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 35 MPH. The factors justifying a further reduction are a route to and from area schools, high volume of pedestrian and bicycle traffic, numerous driveways, and recent accident history. 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

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Soquel Drive				
From:	Rosedale Avenue	48	1	◆	100.0%
To:	Park Avenue	47	1	◆	98.8%
Direction:	Westbound	46	0		97.6%
Weather:	Sunny	45	1	◆	97.6%
Posted Speed:	35 MPH	44	1	◆	96.5%
Begin time:	3:05 PM	43	1	◆	95.3%
End time:	3:22 PM	42	4	◆◆◆◆	94.1%
		41	4	◆◆◆◆	89.4%
		40	7	◆◆◆◆◆◆◆	84.7%
		39	12	◆◆◆◆◆◆◆◆◆◆◆◆	76.5%
		38	13	◆◆◆◆◆◆◆◆◆◆◆◆◆	62.4%
		37	6	◆◆◆◆◆◆	47.1%
		36	9	◆◆◆◆◆◆◆◆◆	40.0%
		35	10	◆◆◆◆◆◆◆◆◆◆	29.4%
		34	3	◆◆◆	17.6%
CRITICAL SPEED	41	33	6	◆◆◆◆◆◆	14.1%
AVERAGE SPEED	37.46	32	3	◆◆◆	7.1%
MEDIAN SPEED	38.0	31	1	◆	3.5%
STANDARD DEVIATION	3.49	30	2	◆◆	2.4%
PACE RANGE	33 - 43	29	0		0.0%
PERCENTAGE IN PACE	87.1%	28	0		0.0%
TOTAL # OF AUTOS	85	27	0		0.0%

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Soquel Drive				
From:	Rosedale Avenue	51	1	◆	100.0%
To:	Park Avenue	50	0		99.0%
Direction:	Eastbound	49	0		99.0%
Weather:	Sunny	48	1	◆	99.0%
Posted Speed:	35 MPH	47	2	◆◆	98.0%
Begin time:	3:05 PM	46	1	◆	96.1%
End time:	3:22 PM	45	0		95.1%
		44	4	◆◆◆◆	95.1%
		43	3	◆◆◆	91.2%
		42	6	◆◆◆◆◆◆	88.2%
		41	12	◆◆◆◆◆◆◆◆◆◆◆◆	82.4%
		40	15	◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆	70.6%
		39	10	◆◆◆◆◆◆◆◆◆◆◆◆	55.9%
		38	7	◆◆◆◆◆◆◆	46.1%
		37	12	◆◆◆◆◆◆◆◆◆◆◆◆	39.2%
CRITICAL SPEED	42	36	10	◆◆◆◆◆◆◆◆◆◆◆◆	27.5%
AVERAGE SPEED	38.77	35	5	◆◆◆◆◆	17.6%
MEDIAN SPEED	39.0	34	6	◆◆◆◆◆◆	12.7%
STANDARD DEVIATION	3.63	33	6	◆◆◆◆◆◆	6.9%
PACE RANGE	33 - 43	32	0		1.0%
PERCENTAGE IN PACE	87.3%	31	0		1.0%
TOTAL # OF AUTOS	102	30	1	◆	1.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION SOQUEL DR (E MAPLETHORPE LN) BY J6L
 ROAD NO _____ DATE 5.22.07 DAY TUE BEGIN 305 END 322
 POSTED SPEED 35 WEATHER SUNNY
 NUMBER OF LANES 2 ^{w/} ~~TWO~~ MIDDLE GRADE CALIBRATED

NUMBER OF VEHICLES

MPH	DIRECTION TO PARK → E	TOTAL OF EACH SPEED	DIRECTION W ← FROM PARK	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55				
54				
53				
52				
51		1		
50		0		
49		0		
48		1		1
47		2		1
46		1		0
45		0		1
44		4		1
43		3		1
42	 -	6		4
41	 - -	12		4
40	 - - -	15	 -	7
39	 - 	10	 - -	12
38	 -	7	 - -	13
37	 - -	12	 - -	6
36	 - -	10	 -	9
35	 -	5	 - -	10
34	 -	6	 -	3
33	 -	6	 -	6
32		0		3
31		0		1
30		1		2
29				
28				
27				
26				
25				
24				
23				
22				
21				
20-				
	TOTAL	102	TOTAL	85

TRAFFIC AND ENGINEERING REPORT
MARCH 2008

PURPOSE:

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

LOCATION:

Soquel Drive between Park Avenue and Mar Vista Drive (Speed Data collected at Vienna Drive)

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	39 mph	41 mph
Pace Speed	33-43 mph	33-43 mph
Average Speed	36.23 mph	37.77 mph

ANALYSIS:

The prevailing 85th percentile speeds are 41 MPH and 39 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 California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 35 MPH. The factors justifying a further reduction are a route to and from area schools, recent accident record, numerous driveways, and shoulder conditions with pedestrians in the roadway without sidewalks. 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

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Soquel Drive				
From:	Park Avenue	44	1	◆	100.0%
To:	Mar Vista Drive	43	0		98.9%
Direction:	Westbound	42	3	◆◆◆	98.9%
Weather:	Sunny	41	5	◆◆◆◆◆	95.6%
Posted Speed:	35 MPH	40	4	◆◆◆◆	90.1%
Begin time:	3:05 AM	39	8	◆◆◆◆◆◆◆◆	85.7%
End time:	3:22 AM	38	6	◆◆◆◆◆◆	76.9%
		37	12	◆◆◆◆◆◆◆◆◆◆◆◆◆◆	70.3%
		36	13	◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆	57.1%
		35	12	◆◆◆◆◆◆◆◆◆◆◆◆◆◆	42.9%
		34	11	◆◆◆◆◆◆◆◆◆◆◆◆◆	29.7%
		33	10	◆◆◆◆◆◆◆◆◆◆◆◆	17.6%
		32	2	◆◆	6.6%
		31	2	◆◆	4.4%
		30	2	◆◆	2.2%
CRITICAL SPEED	39	29	0		0.0%
AVERAGE SPEED	36.23	28	0		0.0%
MEDIAN SPEED	36.0	27	0		0.0%
STANDARD DEVIATION	2.91	26	0		0.0%
PACE RANGE	33 - 43	25	0		0.0%
PERCENTAGE IN PACE	92.3%	24	0		0.0%
TOTAL # OF AUTOS	91	23	0		0.0%

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Soquel Drive				
From:	Park Avenue	51	2	◆◆	100.0%
To:	Mar Vista Drive	50	0		98.0%
Direction:	Eastbound	49	1	◆	98.0%
Weather:	Sunny	48	1	◆	97.0%
Posted Speed:	35 MPH	47	1	◆	96.0%
Begin time:	3:05 AM	46	1	◆	94.9%
End time:	3:22 AM	45	0		93.9%
		44	3	◆◆◆	93.9%
		43	0		90.9%
		42	4	◆◆◆◆	90.9%
		41	5	◆◆◆◆◆	86.9%
		40	9	◆◆◆◆◆◆◆◆◆	81.8%
		39	9	◆◆◆◆◆◆◆◆◆	72.7%
		38	9	◆◆◆◆◆◆◆◆◆	63.6%
		37	15	◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆	54.5%
CRITICAL SPEED	41	36	7	◆◆◆◆◆◆◆	39.4%
AVERAGE SPEED	37.77	35	12	◆◆◆◆◆◆◆◆◆◆◆◆◆	32.3%
MEDIAN SPEED	37.0	34	6	◆◆◆◆◆◆	20.2%
STANDARD DEVIATION	4.04	33	10	◆◆◆◆◆◆◆◆◆◆	14.1%
PACE RANGE	33 - 43	32	4	◆◆◆◆	4.0%
PERCENTAGE IN PACE	86.9%	31	0		0.0%
TOTAL # OF AUTOS	99	30	0		0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION SOQUEL DR (@ VIENNA DR) BY JGL
 ROAD NO _____ DATE 5-22-07 DAY TUES BEGIN 3:35 END 3:52
 POSTED SPEED 35 WEATHER SUNNY
 NUMBER OF LANES 2 MIDDLE GRADE 1.5% CALIBRATED

MPH	DIRECTION	TOTAL OF EACH SPEED	DIRECTION	TOTAL OF EACH SPEED
	TO VIENNA → E		← W FROM VIENNA	
60				
59				
58				
57				
56				
55				
54				
53				
52				
51		2		
50		0		
49		1		
48		1		
47		1		
46		1		
45		0		
44		3		1
43		0		0
42		4		3
41		5		5
40	-	9		4
39		9		8
38		9		6
37		15		12
36		7		13
35		12		12
34		6		11
33		10		10
32		4		2
31				2
30				2
29				
28				
27				
26				
25				
24				
23				
22				
21				
20				
TOTAL		99	TOTAL 91	

TRAFFIC AND ENGINEERING REPORT
MARCH 2008

PURPOSE:

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

LOCATION:

Soquel Drive between Mar Vista Drive and West Ledyard Way (Speed Data collected at Mar Vista Drive)

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	41 mph
Pace Speed	33-43 mph	32-42 mph
Average Speed	37.28 mph	37.43 mph

ANALYSIS:

The prevailing 85th percentile speeds are 41 MPH in both directions 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 California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 35 MPH. The factors justifying a further reduction are a route to and from area schools, recent accident record, numerous driveways, and shoulder conditions with pedestrians in the roadway without sidewalks. 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

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Soquel Drive				
From:	Mar Vista Drive	45	1	◆	100.0%
To:	West Ledyard Way	44	3	◆◆◆	98.9%
Direction:	Westbound	43	1	◆	95.6%
Weather:	Sunny	42	7	◆◆◆◆◆◆◆	94.4%
Posted Speed:	35 MPH	41	6	◆◆◆◆◆◆	86.7%
Begin time:	4:05 AM	40	11	◆◆◆◆◆◆◆◆◆◆◆	80.0%
End time:	4:20 AM	39	7	◆◆◆◆◆◆◆	67.8%
		38	5	◆◆◆◆◆	60.0%
		37	9	◆◆◆◆◆◆◆◆◆	54.4%
		36	11	◆◆◆◆◆◆◆◆◆◆◆	44.4%
		35	8	◆◆◆◆◆◆◆◆	32.2%
		34	7	◆◆◆◆◆◆◆	23.3%
		33	5	◆◆◆◆◆	15.6%
		32	5	◆◆◆◆◆	10.0%
		31	0		4.4%
CRITICAL SPEED	41	30	4	◆◆◆◆	4.4%
AVERAGE SPEED	37.28	29	0		0.0%
MEDIAN SPEED	37.0	28	0		0.0%
STANDARD DEVIATION	3.59	27	0		0.0%
PACE RANGE	33 - 43	26	0		0.0%
PERCENTAGE IN PACE	84.4%	25	0		0.0%
TOTAL # OF AUTOS	90	24	0		0.0%

RADAR SPEED SURVEY

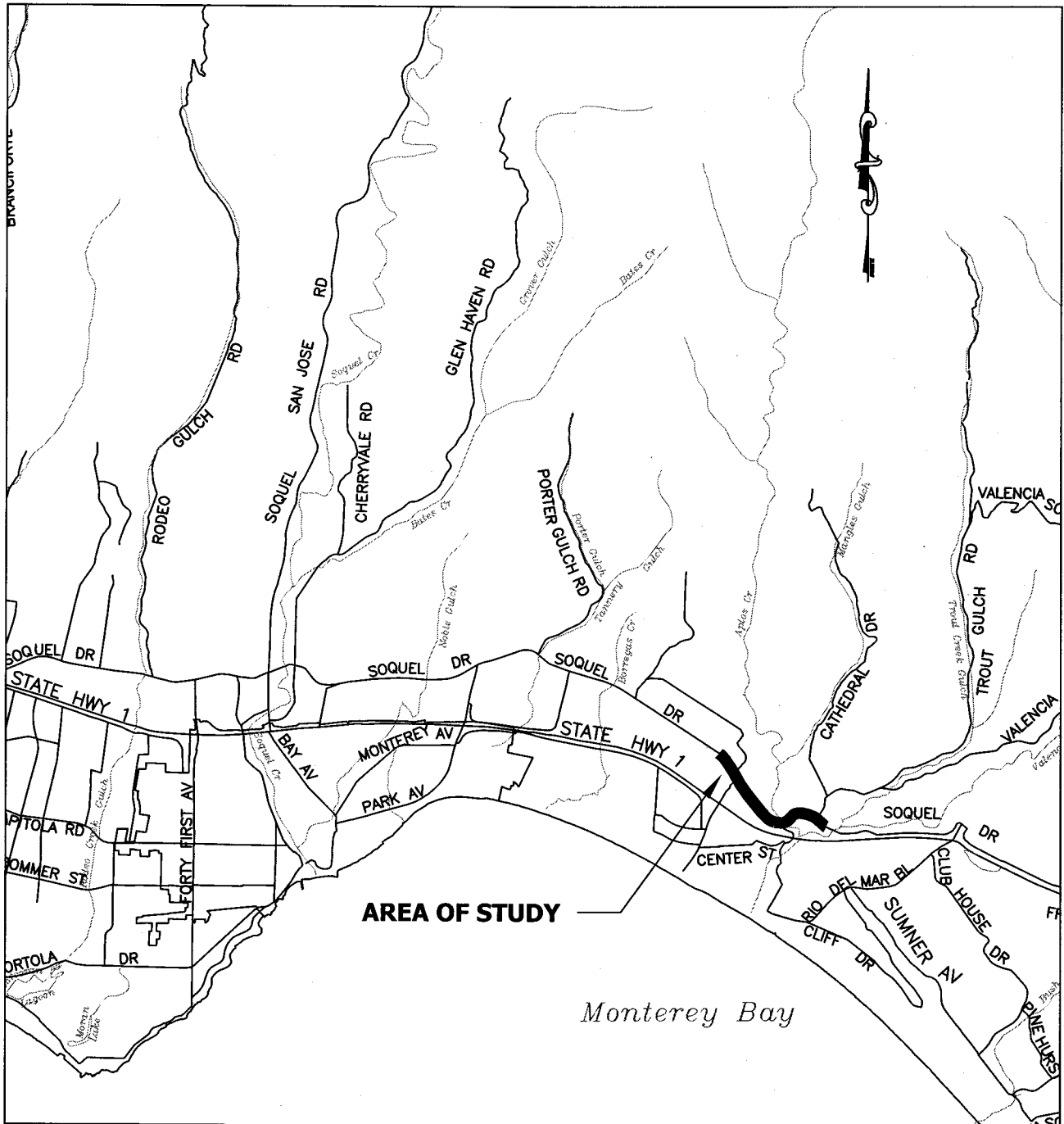
		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Soquel Drive				
From:	Mar Vista Drive	50	1	◆	100.0%
To:	West Ledyard Way	49	0		98.9%
Direction:	Eastbound	48	0		98.9%
Weather:	Sunny	47	1	◆	98.9%
Posted Speed:	35 MPH	46	0		97.8%
Begin time:	4:05 AM	45	3	◆◆◆	97.8%
End time:	4:20 AM	44	2	◆◆	94.4%
		43	2	◆◆	92.1%
		42	1	◆	89.9%
		41	5	◆◆◆◆◆	88.8%
		40	13	◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆	83.1%
		39	5	◆◆◆◆◆	68.5%
		38	7	◆◆◆◆◆◆◆	62.9%
		37	9	◆◆◆◆◆◆◆◆◆	55.1%
		36	9	◆◆◆◆◆◆◆◆◆	44.9%
CRITICAL SPEED	41	35	10	◆◆◆◆◆◆◆◆◆◆	34.8%
AVERAGE SPEED	37.43	34	6	◆◆◆◆◆◆	23.6%
MEDIAN SPEED	37.0	33	9	◆◆◆◆◆◆◆◆◆	16.9%
STANDARD DEVIATION	3.84	32	4	◆◆◆◆	6.7%
PACE RANGE	32 - 42	31	1	◆	2.2%
PERCENTAGE IN PACE	86.5%	30	1	◆	1.1%
TOTAL # OF AUTOS	89	29	0		0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION SOQUEL DR (@ MAR VISTA DR) BY JGL
 ROAD NO _____ DATE 5-22-07 DAY TUES BEGIN 405 END 420
 POSTED SPEED 35 WEATHER SUNNY
 NUMBER OF LANES 2 GRADE _____ CALIBRATED

NUMBER OF VEHICLES

MPH	DIRECTION	TOTAL OF EACH SPEED	DIRECTION	TOTAL OF EACH SPEED
	E → TO MAR VISTA DR		W ← FROM MAR VISTA	
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50		1		
49		0		
48		0		
47		1		
46		0		
45		3		1
44		2		3
43		2		1
42		1		7
41	 	5	 	6
40	 - -	13	 - -	11
39	 -	5	 -	7
38	 -	7	 -	5
37	 -	9	 -	9
36	 -	9	 -	11
35	 -	10	 -	8
34	 -	6	 -	7
33	 -	9	 -	5
32		4	 -	5
31		1		0
30		1		4
29				
28				
27				
26				
25				
24				
23				
22				
21				
20				
TOTAL		89	TOTAL 90	



SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
SOQUEL DRIVE
WEST LEDYARD WAY TO 0.3 MILES EAST OF APTOS STREET

March 2008
 Page # 99

TRAFFIC AND ENGINEERING REPORT
MARCH 2008

PURPOSE:

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

LOCATION:

Soquel Drive from West Ledyard to .3 miles east of Aptos Street (Speed Data collected at Aptos Wharf Road)

PREVAILING SPEED DATA:

The existing posted speed limit is 25 MPH and is radar enforced.

The prevailing speeds are:

Direction	Westbound	Eastbound
85 th Percentile	32 mph	32 mph
Pace Speed	25-35 mph	24-34 mph
Average Speed	29.27 mph	29.25 mph

ANALYSIS:

The prevailing 85th percentile speeds are 32 MPH in both directions of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 30 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 25 MPH. The factors justifying a further reduction are recent accident record, high volume of vehicle, pedestrian, and bicycle traffic, railroad over crossings with narrow width between abutments and all traffic must share the road at these points, prima facie business district and a narrow historic bridge. It is recommended that the existing 25 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Soquel Drive				
From:	West Ledyard Way	35	1	◆	100.0%
To:	.3 mi. east of Aptos St.	34	0		98.6%
Direction:	Eastbound	33	3	◆◆◆	98.6%
Weather:	Sunny	32	7	◆◆◆◆◆◆◆	94.2%
Posted Speed:	25 MPH	31	11	◆◆◆◆◆◆◆◆◆◆◆	84.1%
Begin time:	9:05 AM	30	9	◆◆◆◆◆◆◆◆◆	68.1%
End time:	9:20 AM	29	13	◆◆◆◆◆◆◆◆◆◆◆◆◆	55.1%
		28	11	◆◆◆◆◆◆◆◆◆◆◆	36.2%
		27	6	◆◆◆◆◆◆	20.3%
		26	5	◆◆◆◆◆	11.6%
		25	1	◆	4.3%
		24	1	◆	2.9%
		23	1	◆	1.4%
		22	0		0.0%
		21	0		0.0%
CRITICAL SPEED	32	20	0		0.0%
AVERAGE SPEED	29.25	19	0		0.0%
MEDIAN SPEED	29.0	18	0		0.0%
STANDARD DEVIATION	2.28	17	0		0.0%
PACE RANGE	24 - 34	16	0		0.0%
PERCENTAGE IN PACE	97.1%	15	0		0.0%
TOTAL # OF AUTOS	69				

RADAR SPEED SURVEY

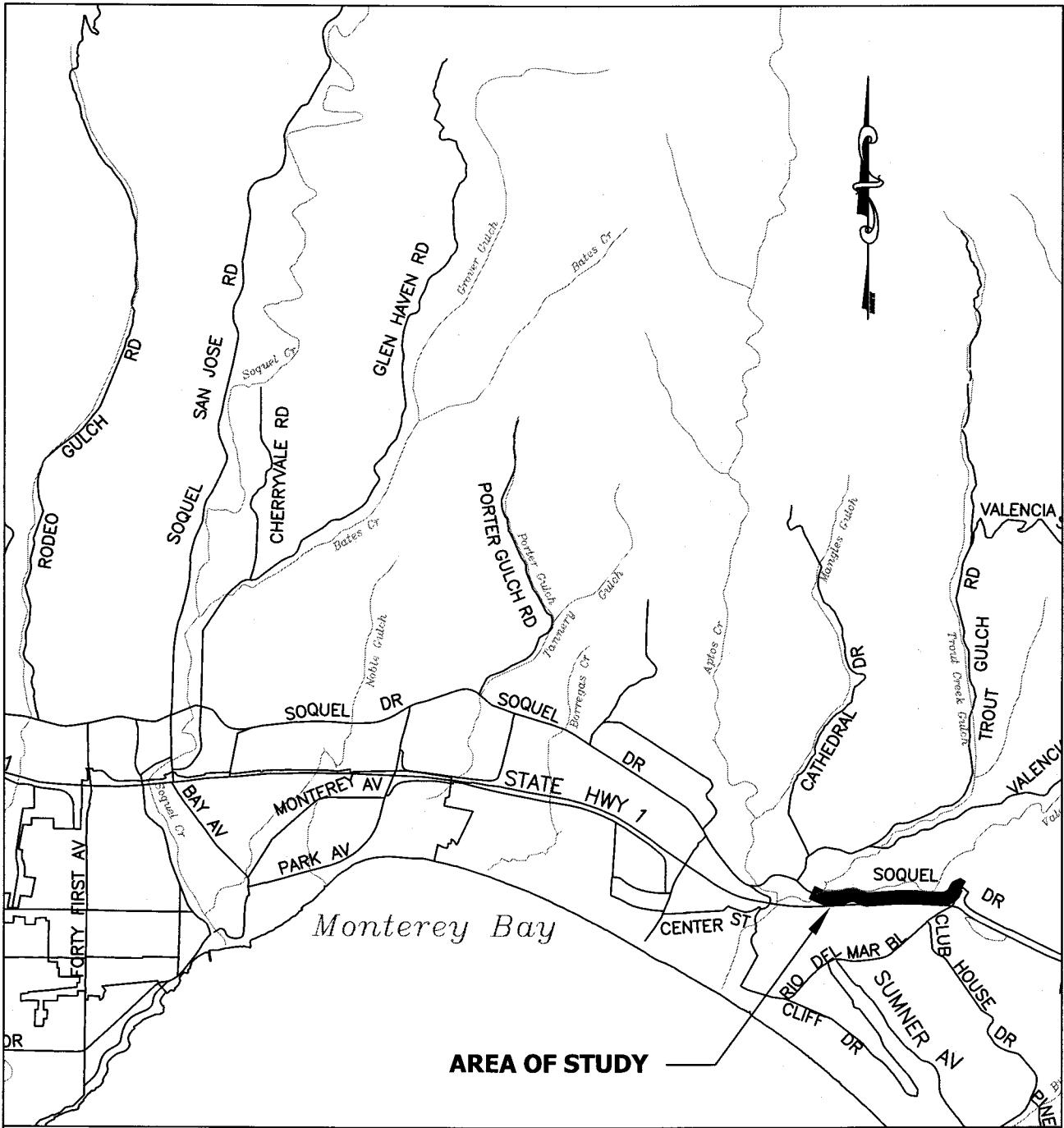
		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Soquel Drive				
From:	West Ledyard Way	37	1	◆	100.0%
To:	.3 mi. east of Aptos St.	36	1	◆	98.8%
Direction:	Westbound	35	3	◆◆◆	97.6%
Weather:	Sunny	34	4	◆◆◆◆	94.0%
Posted Speed:	25 MPH	33	2	◆◆	89.3%
Begin time:	9:05 AM	32	6	◆◆◆◆◆◆	86.9%
End time:	9:20 AM	31	13	◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆	79.8%
		30	8	◆◆◆◆◆◆◆◆	64.3%
		29	11	◆◆◆◆◆◆◆◆◆◆◆◆	54.8%
		28	10	◆◆◆◆◆◆◆◆◆◆◆	41.7%
		27	8	◆◆◆◆◆◆◆◆	29.8%
		26	8	◆◆◆◆◆◆◆◆	20.2%
		25	7	◆◆◆◆◆◆◆	10.7%
		24	0		2.4%
		23	2	◆◆	2.4%
CRITICAL SPEED	32	22	0		0.0%
AVERAGE SPEED	29.27	21	0		0.0%
MEDIAN SPEED	29.0	20	0		0.0%
STANDARD DEVIATION	3.02	19	0		0.0%
PACE RANGE	25 - 35	18	0		0.0%
PERCENTAGE IN PACE	91.7%	17	0		0.0%
TOTAL # OF AUTOS	84	16	0		0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION SOQUEL DR (@ RITOS WARE ROAD) BY JGL
 ROAD NO _____ DATE 5-23-07 DAY WED BEGIN 9:05 END 9:20
 POSTED SPEED 25 WEATHER CLOUDY
 NUMBER OF LANES 2 ^{1/2} ~~LANE~~ GRADE 1% CALIBRATED ✓

NUMBER OF VEHICLES

MPH	DIRECTION		TOTAL OF EACH SPEED	DIRECTION		TOTAL OF EACH SPEED
	FROM <u>WARE</u> →	<u>W</u>		←	TO <u>WARE</u>	
60						
59						
58						
57						
56						
55						
54						
53						
52						
51						
50						
49						
48						
47						
46						
45						
44						
43						
42						
41						
40						
39						
38						
37			1			
36			1			
35			3			1
34			4			0
33			2			3
32	-		6	-		7
31	- -		13	- -		11
30	-		8	-		9
29	- -		11	- -		13
28	- -		10	- -		11
27	-		8	-		6
26	-		8	-		5
25	-		7	-		1
24			0			1
23			2			1
22						
21						
20						
			TOTAL 84			TOTAL 69



SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
SOQUEL DRIVE
0.3 MILES EAST OF APTOS STREET TO RIO DEL MAR BOULEVARD

TRAFFIC AND ENGINEERING REPORT
MARCH 2008

PURPOSE:

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

LOCATION:

Soquel Drive from .3 miles east of Aptos Street to Rio Del Mar Boulevard (Speed Data collected at the mid point)

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	42 mph	40 mph
Pace Speed	35-45 mph	32-42 mph
Average Speed	37.89 mph	36.58 mph

ANALYSIS:

The prevailing 85th percentile speeds are 42 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 California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 35 MPH. The factors justifying a further reduction are a route to and from area schools, recent accident record, and shoulder conditions with pedestrians in the roadway without sidewalks. 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

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Soquel Drive				
From:	.3 mi. east of Aptos St.	47	1	◆	100.0%
To:	Rio Del Mar Boulevard	46	0		98.6%
Direction:	Westbound	45	0		98.6%
Weather:	Sunny	44	1	◆	98.6%
Posted Speed:	35 MPH	43	5	◆◆◆◆◆	97.3%
Begin time:	9:45 AM	42	5	◆◆◆◆◆	90.4%
End time:	10:05 AM	41	5	◆◆◆◆◆	83.6%
		40	8	◆◆◆◆◆◆◆◆	76.7%
		39	7	◆◆◆◆◆◆◆	65.8%
		38	9	◆◆◆◆◆◆◆◆◆	56.2%
		37	7	◆◆◆◆◆◆◆	43.8%
		36	7	◆◆◆◆◆◆◆	34.2%
		35	7	◆◆◆◆◆◆◆	24.7%
		34	1	◆	15.1%
		33	4	◆◆◆◆	13.7%
CRITICAL SPEED	42	32	2	◆◆	8.2%
AVERAGE SPEED	37.89	31	4	◆◆◆◆	5.5%
MEDIAN SPEED	38.0	30	0		0.0%
STANDARD DEVIATION	3.51	29	0		0.0%
PACE RANGE	35 - 45	28	0		0.0%
PERCENTAGE IN PACE	83.6%	27	0		0.0%
TOTAL # OF AUTOS	73	26	0		0.0%

RADAR SPEED SURVEY

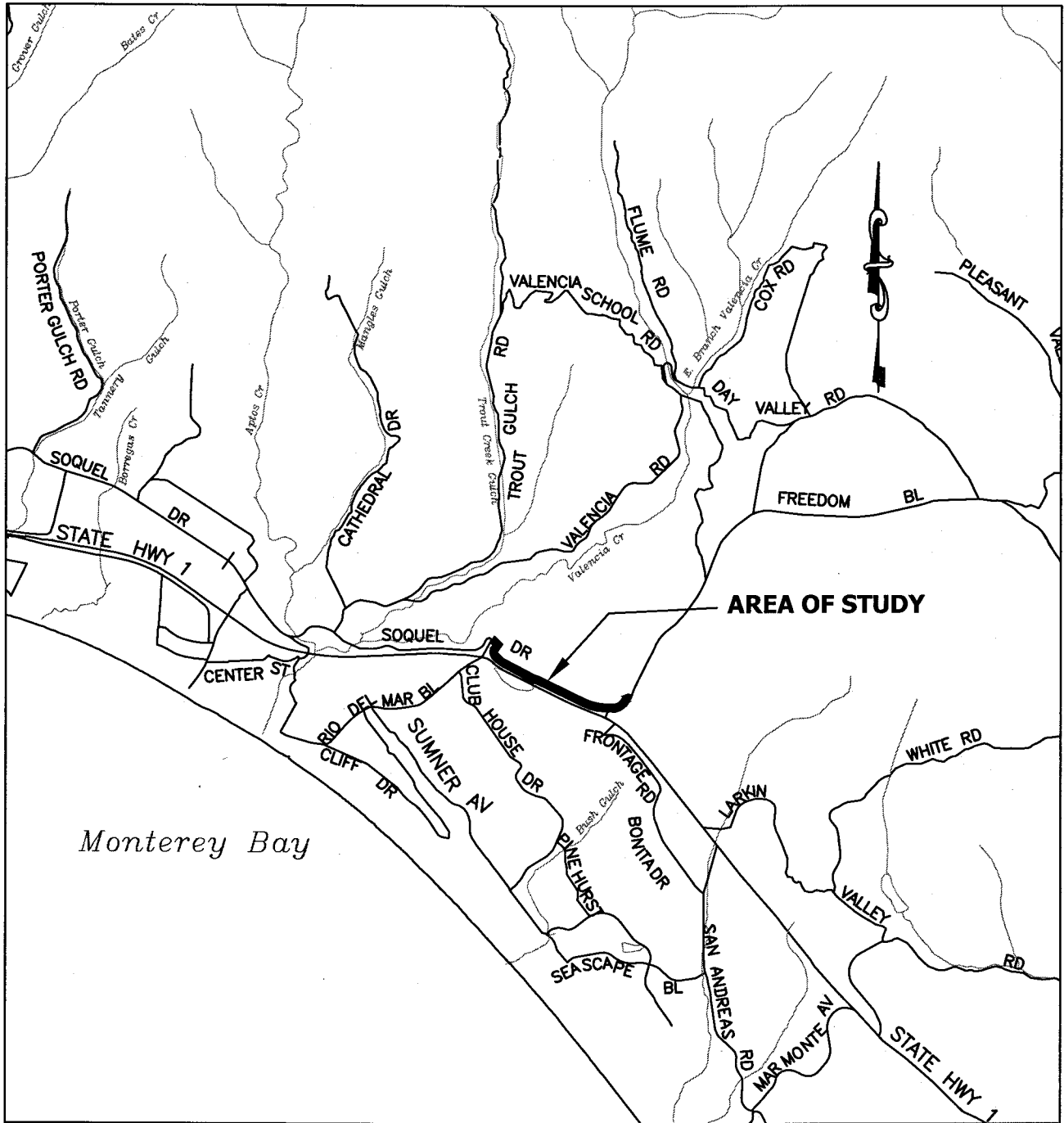
		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Soquel Drive				
From:	.3 mi. east of Aptos St.	47	1	◆	100.0%
To:	Rio Del Mar Boulevard	46	0		98.6%
Direction:	Eastbound	45	1	◆	98.6%
Weather:	Sunny	44	0		97.2%
Posted Speed:	35 MPH	43	3	◆◆◆	97.2%
Begin time:	9:45 AM	42	0		93.1%
End time:	10:05 AM	41	2	◆◆	93.1%
		40	5	◆◆◆◆◆	90.3%
		39	5	◆◆◆◆◆	83.3%
		38	7	◆◆◆◆◆◆◆	76.4%
		37	12	◆◆◆◆◆◆◆◆◆◆◆◆◆	66.7%
		36	10	◆◆◆◆◆◆◆◆◆◆◆	50.0%
		35	11	◆◆◆◆◆◆◆◆◆◆◆◆◆	36.1%
		34	2	◆◆	20.8%
		33	6	◆◆◆◆◆◆	18.1%
CRITICAL SPEED	40	32	2	◆◆	9.7%
AVERAGE SPEED	36.58	31	2	◆◆	6.9%
MEDIAN SPEED	36.5	30	2	◆◆	4.2%
STANDARD DEVIATION	3.39	29	1	◆	1.4%
PACE RANGE	32 - 42	28	0		0.0%
PERCENTAGE IN PACE	86.1%	27	0		0.0%
TOTAL # OF AUTOS	72	26	0		0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION SOQUEL DR (MIDPT. B/W (MUD L MAR & XPOS)) BY JGL
 ROAD NO _____ DATE 5-23-07 DAY wed BEGIN 945 END 1005
 POSTED SPEED 35 WEATHER SUNNY
 NUMBER OF LANES 2 GRADE FLAT CALIBRATED ✓

NUMBER OF VEHICLES

MPH	DIRECTION		TOTAL OF EACH SPEED	DIRECTION		TOTAL OF EACH SPEED
	From R10 →	W		←	To R10	
60						
59						
58						
57						
56						
55						
54						
53						
52						
51						
50						
49						
48						
47			1	1		1
46			0			0
45			0			1
44			1			0
43			5			3
42			5			6
41			5			2
40	-		8	-		5
39	-		7	-		5
38	-		9	-		7
37	-		7	- -		12
36	-		7	- -		10
35	-		7	- -		11
34			1			2
33			4	-		6
32			2			2
31			4			2
30			1			2
29						1
28						
27						
26						
25						
24						
23						
22						
21						
20						
TOTAL			73	TOTAL		72



SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
SOQUEL DRIVE
RIO DEL MAR BOULEVARD TO FREEDOM BOULEVARD

TRAFFIC AND ENGINEERING REPORT
MARCH 2008

PURPOSE:

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

LOCATION:

Soquel Drive between Rio Del Mar Boulevard and Freedom Boulevard (Speed Data collected at the mid point)

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	44 mph	41 mph
Pace Speed	34-44 mph	33-43 mph
Average Speed	38.05 mph	36.91 mph

ANALYSIS:

The prevailing 85th percentile speeds are 44 MPH and 41 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 California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 35 MPH. The factors justifying a further reduction are a route to and from area schools, recent accident record, and shoulder conditions with pedestrians in the roadway without sidewalks. It is recommended that the existing 40 MPH speed limit be decreased to 35 MPH with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Soquel Drive				
From:	Rio Del Mar Boulevard	47	2	◆◆	100.0%
To:	Freedom Boulevard	46	1	◆	96.6%
Direction:	Westbound	45	5	◆◆◆◆◆	94.8%
Weather:	Sunny	44	2	◆◆	86.2%
Posted Speed:	40 MPH	43	2	◆◆	82.8%
Begin time:	10:15 AM	42	2	◆◆	79.3%
End time:	10:50 AM	41	4	◆◆◆◆	75.9%
		40	2	◆◆	69.0%
		39	4	◆◆◆◆	65.5%
		38	3	◆◆◆	58.6%
		37	8	◆◆◆◆◆◆◆◆	53.4%
		36	3	◆◆◆	39.7%
		35	8	◆◆◆◆◆◆◆◆	34.5%
		34	3	◆◆◆	20.7%
		33	2	◆◆	15.5%
CRITICAL SPEED	44	32	2	◆◆	12.1%
AVERAGE SPEED	38.05	31	4	◆◆◆◆	8.6%
MEDIAN SPEED	37.0	30	1	◆	1.7%
STANDARD DEVIATION	4.58	29	0		0.0%
PACE RANGE	34 - 44	28	0		0.0%
PERCENTAGE IN PACE	67.2%	27	0		0.0%
TOTAL # OF AUTOS	58	26	0		0.0%

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Soquel Drive				
From:	Rio Del Mar Boulevard	48	1	◆	100.0%
To:	Freedom Boulevard	47	2	◆◆	98.4%
Direction:	Eastbound	46	0		95.3%
Weather:	Sunny	45	2	◆◆	95.3%
Posted Speed:	40 MPH	44	0		92.2%
Begin time:	10:15 AM	43	1	◆	92.2%
End time:	10:50 AM	42	2	◆◆	90.6%
		41	6	◆◆◆◆◆◆	87.5%
		40	2	◆◆	78.1%
		39	9	◆◆◆◆◆◆◆◆◆	75.0%
		38	2	◆◆	60.9%
		37	9	◆◆◆◆◆◆◆◆◆	57.8%
		36	2	◆◆	43.8%
		35	8	◆◆◆◆◆◆◆◆	40.6%
		34	2	◆◆	28.1%
CRITICAL SPEED	41	33	5	◆◆◆◆◆	25.0%
AVERAGE SPEED	36.91	32	2	◆◆	17.2%
MEDIAN SPEED	37.0	31	4	◆◆◆◆	14.1%
STANDARD DEVIATION	4.63	30	1	◆	7.8%
PACE RANGE	33 - 43	29	3	◆◆◆	6.3%
PERCENTAGE IN PACE	73.4%	28	0		1.6%
TOTAL # OF AUTOS	64	27	1	◆	1.6%

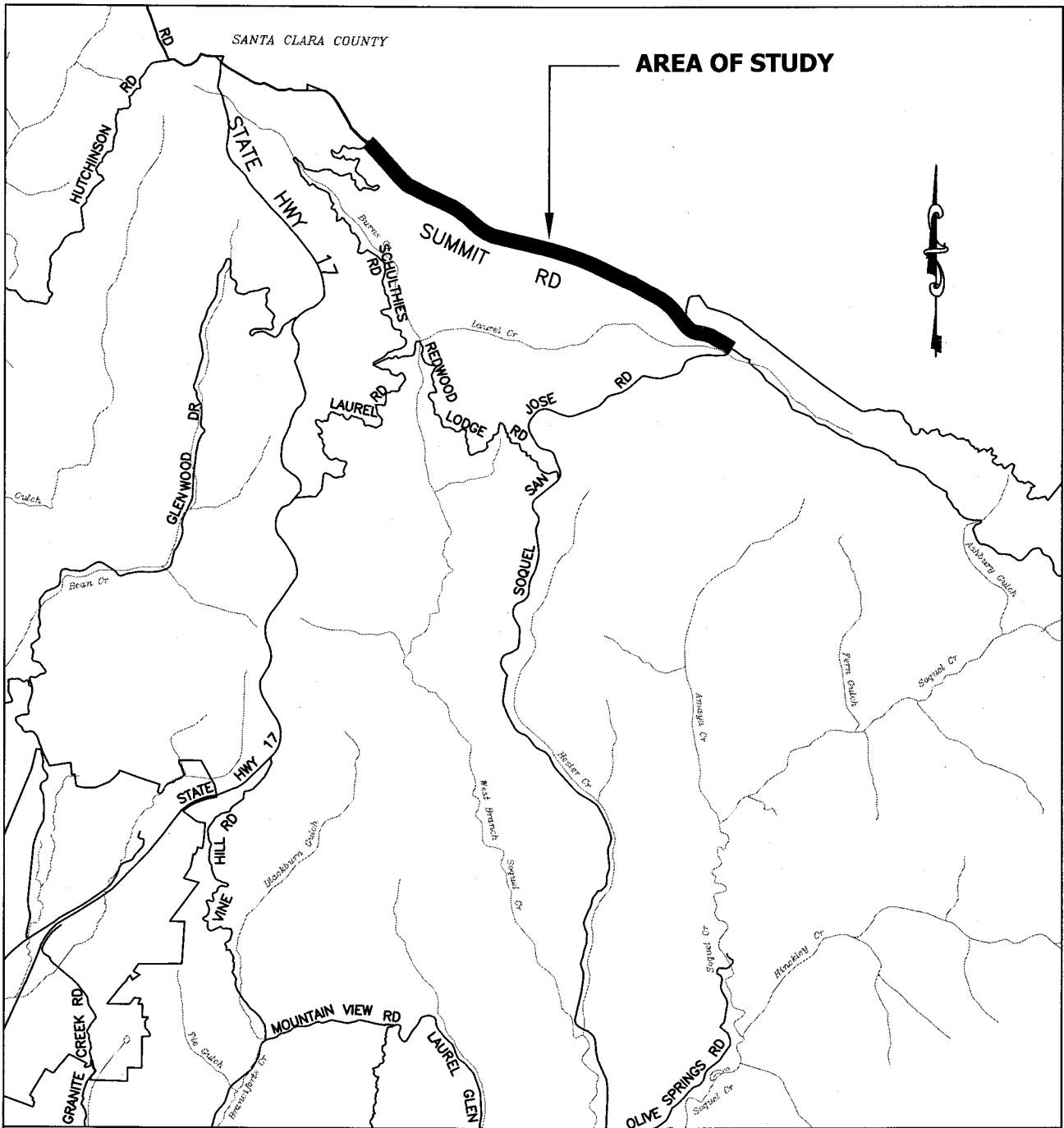
RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION SOQUEL DR (B/w RIONEY AVE & FREEDOM) BY JGL
 ROAD NO _____ DATE 5-23-07 DAY WED BEGIN 1015 END 1050
 POSTED SPEED 40 WEATHER SUNNY
 NUMBER OF LANES 2 GRADE 0% CALIBRATED

NUMBER OF VEHICLES

MPH	DIRECTION		TOTAL OF EACH SPEED	DIRECTION		TOTAL OF EACH SPEED
	From FREEDOM →	W		E ←	TO FREEDOM	
60						
59						
58						
57						
56						
55						
54						
53						
52						
51						
50						
49						
48						1
47			2			2
46			1			0
45			5			2
44			2			0
43			2			1
42			2			2
41			4			6
40			2			2
39			4			9
38			3			2
37			8			8
36			3			2
35			8			5
34			3			2
33			2			4
32			2			1
31			4			3
30			1			0
29						1
28						
27						
26						
25						
24						
23						
22						
21						
20						
TOTAL			58	TOTAL		64





AREA OF STUDY

**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
 RADAR SPEED SURVEY
 SUMMIT ROAD
 OLD SANTA CRUZ HIGHWAY TO SOQUEL-SAN JOSE ROAD**

TRAFFIC AND ENGINEERING REPORT
MARCH 2008

PURPOSE:

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

LOCATION:

Summit Road between Old Santa Cruz Highway and Soquel San Jose Road.
(Speed Data collected west of Villa Del Monte)

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	48 mph	46 mph
Pace Speed	40-50 mph	38-48 mph
Average Speed	43.71 mph	41.17 mph

ANALYSIS:

The prevailing 85th percentile speeds are 48 MPH and 46 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 California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 40 MPH. The factors justifying a further reduction are safe stopping sight distance, high volume of traffic, 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

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Summit Road				
From:	Old Santa Cruz Highway	53	1	◆	100.0%
To:	Soquel-San Jose Road	52	0		98.5%
Direction:	Westbound	51	0		98.5%
Weather:	Sunny	50	1	◆	98.5%
Posted Speed:	40 MPH	49	5	◆◆◆◆◆	97.1%
Begin time:	11:41 AM	48	4	◆◆◆◆	89.7%
End time:	11:50 AM	47	4	◆◆◆◆	83.8%
		46	6	◆◆◆◆◆◆	77.9%
		45	8	◆◆◆◆◆◆◆◆	69.1%
		44	6	◆◆◆◆◆◆	57.4%
		43	7	◆◆◆◆◆◆◆	48.5%
		42	4	◆◆◆◆	38.2%
		41	7	◆◆◆◆◆◆◆	32.4%
		40	9	◆◆◆◆◆◆◆◆◆	22.1%
		39	1	◆	8.8%
CRITICAL SPEED	48	38	4	◆◆◆◆	7.4%
AVERAGE SPEED	43.71	37	1	◆	1.5%
MEDIAN SPEED	44.0	36	0		0.0%
STANDARD DEVIATION	3.49	35	0		0.0%
PACE RANGE	40 - 50	34	0		0.0%
PERCENTAGE IN PACE	88.2%	33	0		0.0%
TOTAL # OF AUTOS	68	32	0		0.0%

RADAR SPEED SURVEY

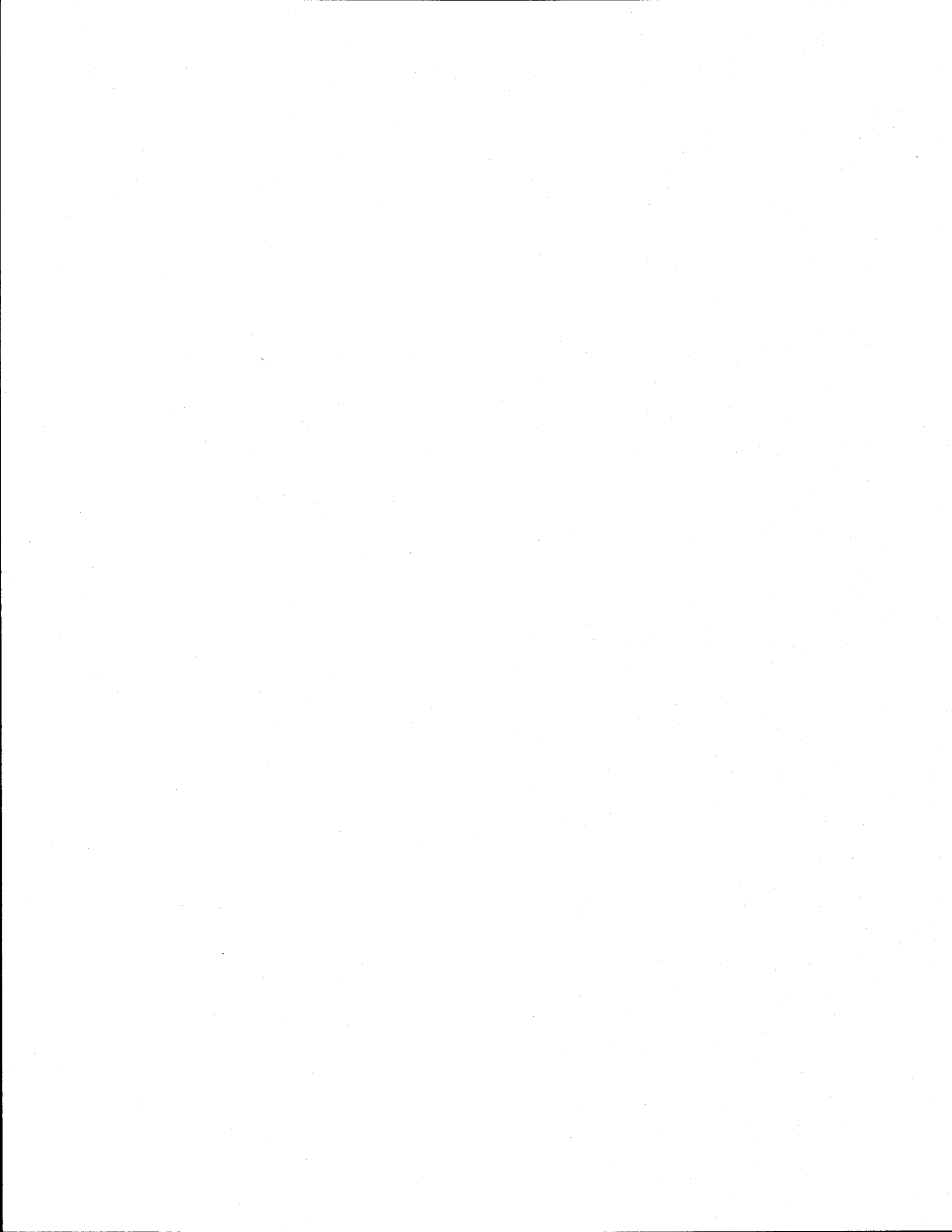
		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Summit Road				
From:	Old Santa Cruz Highway	50	1	◆	100.0%
To:	Soquel-San Jose Road	49	1	◆	98.7%
Direction:	Eastbound	48	2	◆◆	97.3%
Weather:	Sunny	47	6	◆◆◆◆◆◆	94.7%
Posted Speed:	40 MPH	46	5	◆◆◆◆◆	86.7%
Begin time:	11:41 AM	45	5	◆◆◆◆◆	80.0%
End time:	11:50 AM	44	1	◆	73.3%
		43	6	◆◆◆◆◆◆	72.0%
		42	3	◆◆◆	64.0%
		41	5	◆◆◆◆◆	60.0%
		40	16	◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆	53.3%
		39	4	◆◆◆◆	32.0%
		38	5	◆◆◆◆◆	26.7%
		37	6	◆◆◆◆◆◆	20.0%
		36	2	◆◆	12.0%
CRITICAL SPEED	46	35	5	◆◆◆◆◆	9.3%
AVERAGE SPEED	41.17	34	2	◆◆	2.7%
MEDIAN SPEED	40.0	33	0		0.0%
STANDARD DEVIATION	4.02	32	0		0.0%
PACE RANGE	38 - 48	31	0		0.0%
PERCENTAGE IN PACE	74.7%	30	0		0.0%
TOTAL # OF AUTOS	75	29	0		0.0%

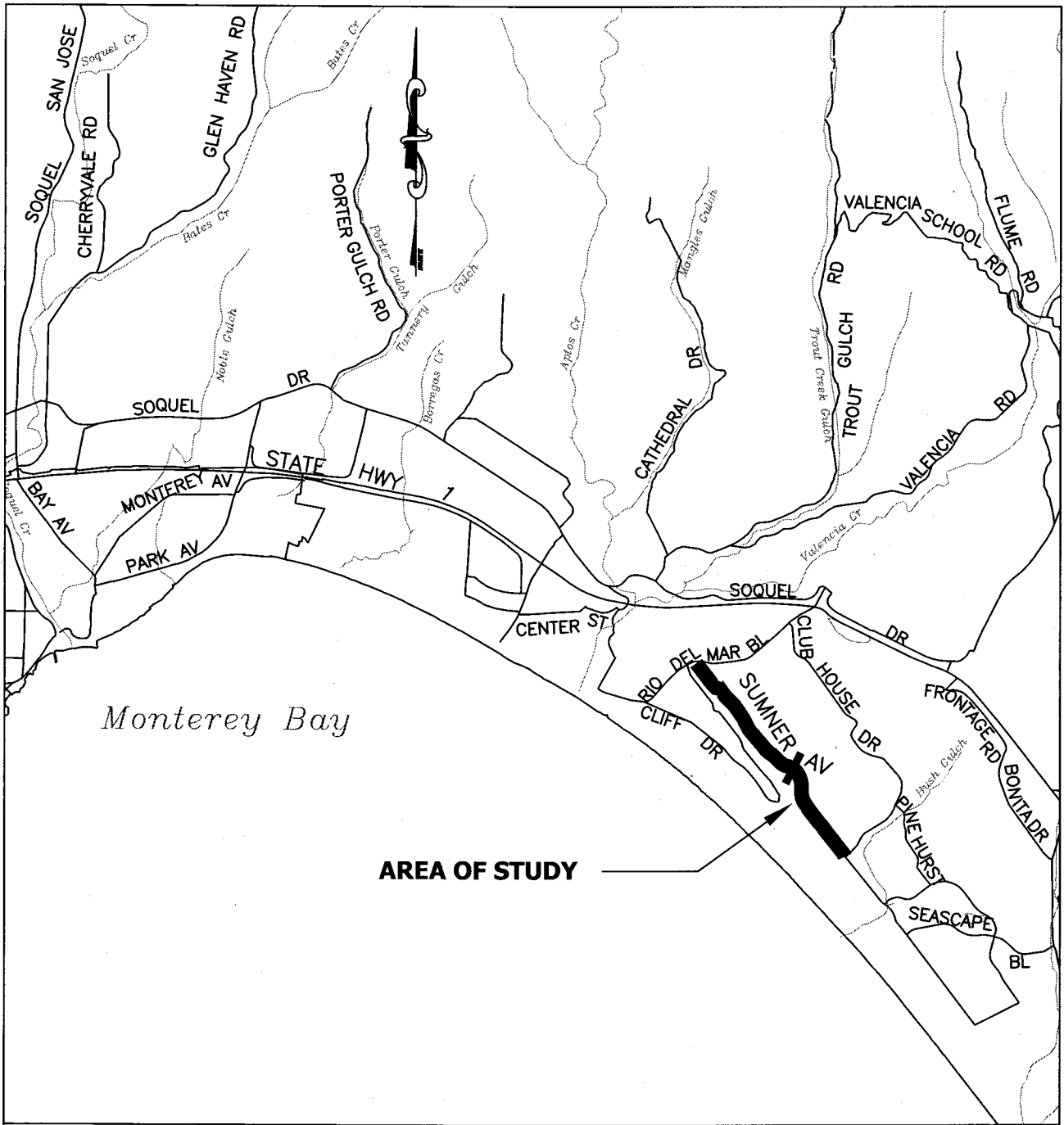
RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION SUMMIT ROAD (WEST OF UFL MONE) BY JGL
 ROAD NO _____ DATE 5-22-07 DAY TUE BEGIN 11:15 END 11:50
 POSTED SPEED 40 MPH WEATHER SUNNY / WINDY
 NUMBER OF LANES 2 GRADE 2% CALIBRATED

NUMBER OF VEHICLES

MPH	DIRECTION TO	TOTAL OF EACH SPEED	DIRECTION	TOTAL OF EACH SPEED
	HWY 17 → W		E ← FROM HWY 17	
60				
59				
58				
57				
56				
55				
54				
53		1		
52		0		
51		0		
50		1		1
49	-	5		1
48		4		2
47		4	-	6
46	-	6	-	5
45	-	8	-	5
44	-	6	-	1
43	-	7	-	6
42		4	-	3
41	-	7	-	5
40	-	9	- - - -	16
39		1	-	4
38		4	-	5
37		1	-	6
36			-	2
35			-	5
34				2
33				
32				
31				
30				
29				
28				
27				
26				
25				
24				
23				
22				
21				
20				
TOTAL		68	TOTAL 75	





SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
SUMNER AVENUE
RIO DEL MAR BOULEVARD TO CLUB HOUSE DRIVE

TRAFFIC AND ENGINEERING REPORT
MARCH 2008

PURPOSE:

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

LOCATION:

Sumner Avenue from Rio Del Mar Boulevard to Los Altos Drive (Speed Data collected at Doris Avenue).

PREVAILING SPEED DATA:

The existing posted speed limit is 25 mph and is radar enforced.

The prevailing speeds are:

Direction	Westbound	Eastbound
85 th Percentile	33 mph	32 mph
Pace Speed	25-35 mph	25-35 mph
Average Speed	29.46 mph	28.87 mph

ANALYSIS:

The prevailing 85th percentile speeds are 33 MPH and 32 MPH depending on the direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 30 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 25 MPH. The factors justifying a further reduction are a prima-facie residential district, safe stopping sight distance, and shoulder conditions with pedestrian traffic in the roadway without sidewalks. It is recommended that the existing 25 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Sumner Avenue				
From:	Rio Del Mar Boulevard	37	2	◆◆	100.0%
To:	Los Altos Drive	36	2	◆◆	97.1%
Direction:	Westbound	35	1	◆	94.2%
Weather:	Sunny	34	4	◆◆◆◆	92.8%
Posted Speed:	25 MPH	33	5	◆◆◆◆◆	87.0%
Begin time:	11:12 AM	32	4	◆◆◆◆	79.7%
End time:	12:11 PM	31	7	◆◆◆◆◆◆◆	73.9%
		30	7	◆◆◆◆◆◆◆	63.8%
		29	8	◆◆◆◆◆◆◆◆	53.6%
		28	10	◆◆◆◆◆◆◆◆◆◆	42.0%
		27	5	◆◆◆◆◆	27.5%
		26	7	◆◆◆◆◆◆◆	20.3%
		25	3	◆◆◆	10.1%
		24	1	◆	5.8%
		23	2	◆◆	4.3%
		22	1	◆	1.4%
CRITICAL SPEED	33	22	1	◆	0.0%
AVERAGE SPEED	29.46	21	0		0.0%
MEDIAN SPEED	29.0	20	0		0.0%
STANDARD DEVIATION	3.40	19	0		0.0%
PACE RANGE	25 - 35	18	0		0.0%
PERCENTAGE IN PACE	87.0%	17	0		0.0%
TOTAL # OF AUTOS	69	16	0		0.0%



RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Sumner Avenue				
From:	Rio Del Mar Boulevard	38	2	◆◆	100.0%
To:	Los Altos Drive	37	0		96.7%
Direction:	Eastbound	36	0		96.7%
Weather:	Sunny	35	0		96.7%
Posted Speed:	25 MPH	34	2	◆◆	96.7%
Begin time:	11:12 AM	33	5	◆◆◆◆◆	93.4%
End time:	12:11 PM	32	3	◆◆◆	85.2%
		31	5	◆◆◆◆◆	80.3%
		30	4	◆◆◆◆	72.1%
		29	7	◆◆◆◆◆◆◆	65.6%
		28	11	◆◆◆◆◆◆◆◆◆◆◆	54.1%
		27	8	◆◆◆◆◆◆◆◆	36.1%
		26	6	◆◆◆◆◆◆	23.0%
		25	7	◆◆◆◆◆◆◆	13.1%
		24	0		1.6%
		23	1	◆	1.6%
CRITICAL SPEED	32	23	1	◆	1.6%
AVERAGE SPEED	28.87	22	0		0.0%
MEDIAN SPEED	28.0	21	0		0.0%
STANDARD DEVIATION	3.13	20	0		0.0%
PACE RANGE	25 - 35	19	0		0.0%
PERCENTAGE IN PACE	95.1%	18	0		0.0%
TOTAL # OF AUTOS	61	17	0		0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION SUMNER (RIO DEL MAR & DORIS) BY JBL
 ROAD NO _____ DATE 5-29-07 DAY THU BEGIN 11:12 END 12:11
 POSTED SPEED 25 WEATHER SUNNY
 NUMBER OF LANES 2 GRADE 0% CALIBRATED

NUMBER OF VEHICLES

MPH	DIRECTION	TOTAL OF EACH SPEED	DIRECTION	TOTAL OF EACH SPEED
	FROM RIO → E		W ← TO RIO	
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48				
47				
46				
45				
44				
43				
42				
41				
40				
39				
38		2		
37		0		2
36		0		2
35		0		1
34		2		4
33	-	5	-	5
32		3		4
31	-	5	-	7
30		4	-	7
29	-	7	-	8
28	- -	11	- -	10
27	-	8	-	5
26	-	6	-	7
25	-	7	-	3
24		0		1
23		1		2
22				1
21				
20				
TOTAL		61	TOTAL 69	

TRAFFIC AND ENGINEERING REPORT
MARCH 2008

PURPOSE:

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

LOCATION:

Sumner Avenue from Los Altos Drive to Club House Drive (Speed Data collected west of Club House Drive).

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	42 mph	41 mph
Pace Speed	31-41 mph	33-43 mph
Average Speed	37.45 mph	37.10 mph

ANALYSIS:

The prevailing 85th percentile speeds are 42 MPH and 41 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 California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 35 MPH. The factors justifying a further reduction are safe stopping sight distance, and shoulder conditions with pedestrian traffic in the roadway without sidewalks. 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

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Sumner Avenue				
From:	Los Altos Drive	47	1	◆	100.0%
To:	Club House Drive	46	0		97.9%
Direction:	Westbound	45	3	◆◆◆	91.5%
Weather:	Cloudy	44	1	◆	91.5%
Posted Speed:	35 MPH	43	1	◆	89.4%
Begin time:	9:38 AM	42	2	◆◆	87.2%
End time:	10:38 AM	41	1	◆	83.0%
		40	5	◆◆◆◆◆	80.9%
		39	5	◆◆◆◆◆	70.2%
		38	8	◆◆◆◆◆◆◆◆	59.6%
		37	2	◆◆	42.6%
		36	2	◆◆	38.3%
		35	0		34.0%
		34	6	◆◆◆◆◆◆	34.0%
		33	4	◆◆◆◆	21.3%
CRITICAL SPEED	42	32	2	◆◆	12.8%
AVERAGE SPEED	37.45	31	2	◆◆	8.5%
MEDIAN SPEED	38.0	30	1	◆	4.3%
STANDARD DEVIATION	4.33	29	1	◆	2.1%
PACE RANGE	31 - 41	28	0		0.0%
PERCENTAGE IN PACE	76.6%	27	0		0.0%
TOTAL # OF AUTOS	47	26	0		0.0%

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Sumner Avenue				
From:	Los Altos Drive	48	1	◆	100.0%
To:	Club House Drive	47	1	◆	98.4%
Direction:	Eastbound	46	1	◆	96.7%
Weather:	Cloudy	45	0		95.1%
Posted Speed:	35 MPH	44	0		95.1%
Begin time:	9:38 AM	43	1	◆	95.1%
End time:	10:38 AM	42	5	◆◆◆◆◆	93.4%
		41	8	◆◆◆◆◆◆◆◆	85.2%
		40	3	◆◆◆	72.1%
		39	3	◆◆◆	67.2%
		38	3	◆◆◆	62.3%
		37	5	◆◆◆◆◆	57.4%
		36	4	◆◆◆◆	49.2%
		35	6	◆◆◆◆◆◆	42.6%
		34	9	◆◆◆◆◆◆◆◆◆	32.8%
CRITICAL SPEED	41	33	2	◆◆	18.0%
AVERAGE SPEED	37.10	32	5	◆◆◆◆◆	14.8%
MEDIAN SPEED	37.0	31	2	◆◆	6.6%
STANDARD DEVIATION	4.32	30	1	◆	3.3%
PACE RANGE	33 - 43	29	0		1.6%
PERCENTAGE IN PACE	78.7%	28	0		1.6%
TOTAL # OF AUTOS	61	27	1	◆	1.6%
		26	0		0.0%

RADAR SPEED SURVEY
Santa Cruz County
Department of Public Works

LOCATION SUMNER AVE (WEST OF CLUBHOUSE) BY JGL

ROAD NO _____ DATE 5-31-07 DAY THU BEGIN 930 END 1030

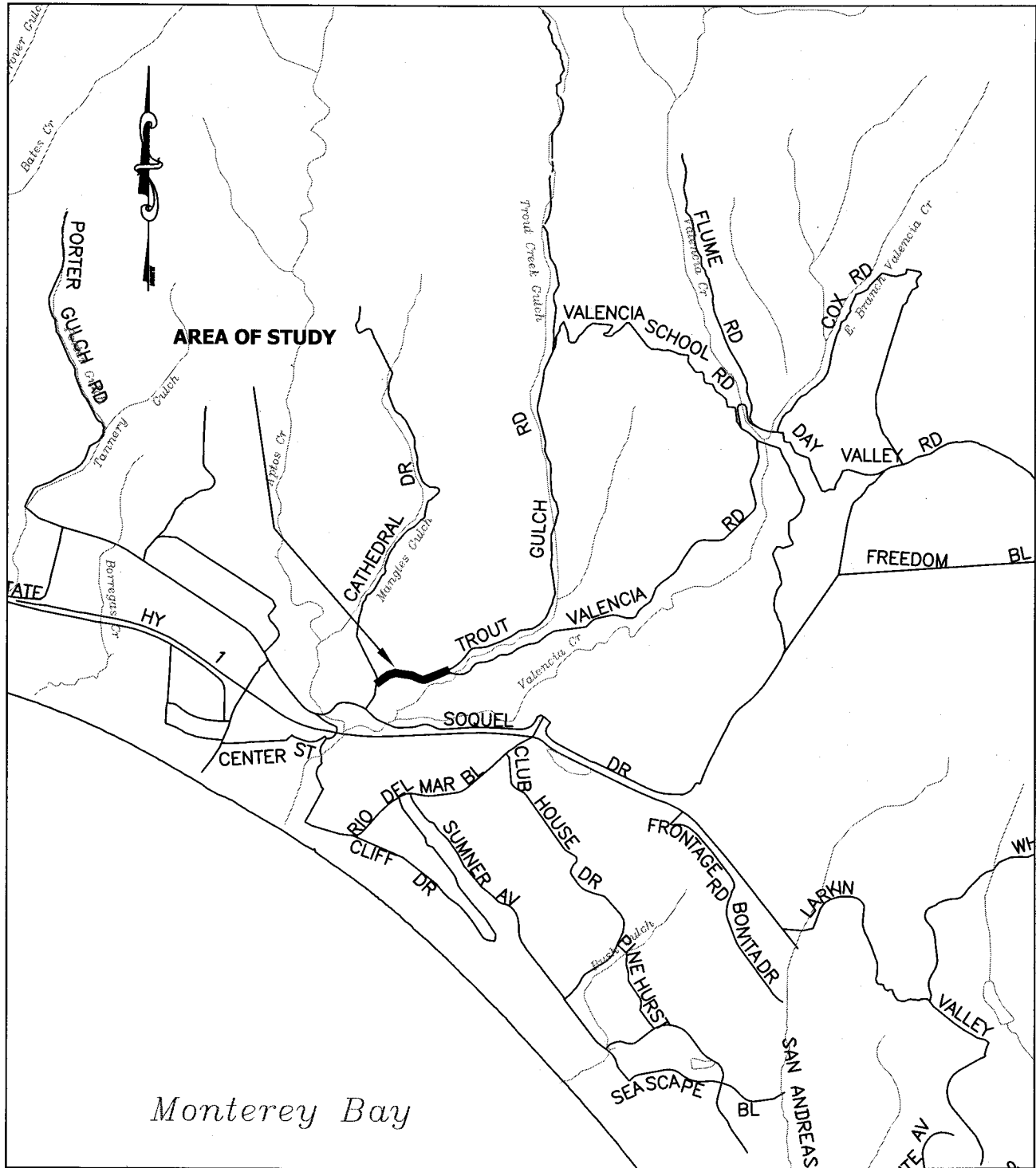
POSTED SPEED 35 WEATHER CLOUDY

NUMBER OF LANES 2 GRADE 0% CALIBRATED

NUMBER OF VEHICLES

MPH	DIRECTION TO CLUBHOUSE → E	TOTAL OF EACH SPEED	DIRECTION ← CLUBHOUSE W	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48		1		
47		1		1
46		1		0
45		0	3	3
44		0	1	1
43		1	1	1
42	N -	5	1	2
41	N - III	8	1	1
40		3	2	5
39		3	2	5
38		3	5	8
37	N	5	2	2
36		4	2	2
35	N - I	6	0	0
34	N - III	9	3	6
33		2	2	4
32	N -	5	2	2
31		2	0	2
30		1	1	1
29		0	1	1
28		0		
27		1		
26				
25				
24				
23				
22				
21				
20				
	TOTAL	61	TOTAL	47





**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
 RADAR SPEED SURVEY
 TROUT GULCH ROAD
 CATHEDRAL DRIVE TO VALENCIA ROAD**

TRAFFIC AND ENGINEERING REPORT
MARCH 2008

PURPOSE:

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

LOCATION:

Trout Gulch Road from Cathedral Drive to Valencia Road. (Speed Data collected at Aptos Knoll Mobile Homes)

PREVAILING SPEED DATA:

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

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	37 mph	37 mph
Pace Speed	28-38 mph	29-39 mph
Average Speed	32.62 mph	31.65 mph

ANALYSIS:

The prevailing 85th percentile speeds are 37 MPH on both directions 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 California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 30 MPH. The factors justifying a further reduction are safe stopping sight distance, high volume of traffic, 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

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Trout Gulch Road				
From:	Cathedral Drive	42	1	◆	100.0%
To:	Valencia Road	41	0		98.6%
Direction:	Northbound	40	4	◆◆◆◆	98.6%
Weather:	Cloudy	39	2	◆◆	93.0%
Posted Speed:	25 MPH	38	1	◆	90.1%
Begin time:	10:30 AM	37	3	◆◆◆	88.7%
End time:	11:20 AM	36	6	◆◆◆◆◆◆	84.5%
		35	1	◆	76.1%
		34	9	◆◆◆◆◆◆◆◆◆	74.6%
		33	10	◆◆◆◆◆◆◆◆◆◆	62.0%
		32	5	◆◆◆◆◆	47.9%
		31	11	◆◆◆◆◆◆◆◆◆◆◆◆	40.8%
		30	3	◆◆◆	25.4%
		29	6	◆◆◆◆◆◆	21.1%
		28	3	◆◆◆	12.7%
		27	1	◆	8.5%
CRITICAL SPEED	37	27	1	◆	8.5%
AVERAGE SPEED	32.62	26	3	◆◆◆	7.0%
MEDIAN SPEED	33.0	25	0		2.8%
STANDARD DEVIATION	3.98	24	0		2.8%
PACE RANGE	28 - 38	23	2	◆◆	2.8%
PERCENTAGE IN PACE	80.3%	22	0		0.0%
TOTAL # OF AUTOS	71	21	0		0.0%

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Trout Gulch Road				
From:	Cathedral Drive	50	1	◆	100.0%
To:	Valencia Road	49	0		98.8%
Direction:	Southbound	48	0		98.8%
Weather:	Cloudy	47	0		98.8%
Posted Speed:	25 MPH	46	0		98.8%
Begin time:	10:30 AM	45	0		98.8%
End time:	11:30 AM	44	0		98.8%
		43	0		98.8%
		42	0		98.8%
		41	0		98.8%
		40	2	◆◆	98.8%
		39	2	◆◆	96.3%
		38	7	◆◆◆◆◆◆◆	93.8%
		37	4	◆◆◆◆	85.2%
		36	5	◆◆◆◆◆	80.2%
		35	4	◆◆◆◆	74.1%
CRITICAL SPEED	37	34	6	◆◆◆◆◆◆	69.1%
AVERAGE SPEED	32.40	33	10	◆◆◆◆◆◆◆◆◆◆	61.7%
MEDIAN SPEED	33.0	32	4	◆◆◆◆	49.4%
STANDARD DEVIATION	4.70	31	6	◆◆◆◆◆◆	44.4%
PACE RANGE	29 - 39	30	11	◆◆◆◆◆◆◆◆◆◆◆	37.0%
PERCENTAGE IN PACE	75.3%	29	4	◆◆◆◆	23.5%
TOTAL # OF AUTOS	81	28	5	◆◆◆◆◆	18.5%
		27	3	◆◆◆	12.3%
		26	2	◆◆	8.6%
		25	0		6.2%
		24	3	◆◆◆	6.2%
		23	1	◆	2.5%
		22	0		1.2%
		21	0		1.2%
		20	1	◆	1.2%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION THOUT GULCH @ 600 POTOS KNOLL MOBILE HOMES BY JGC

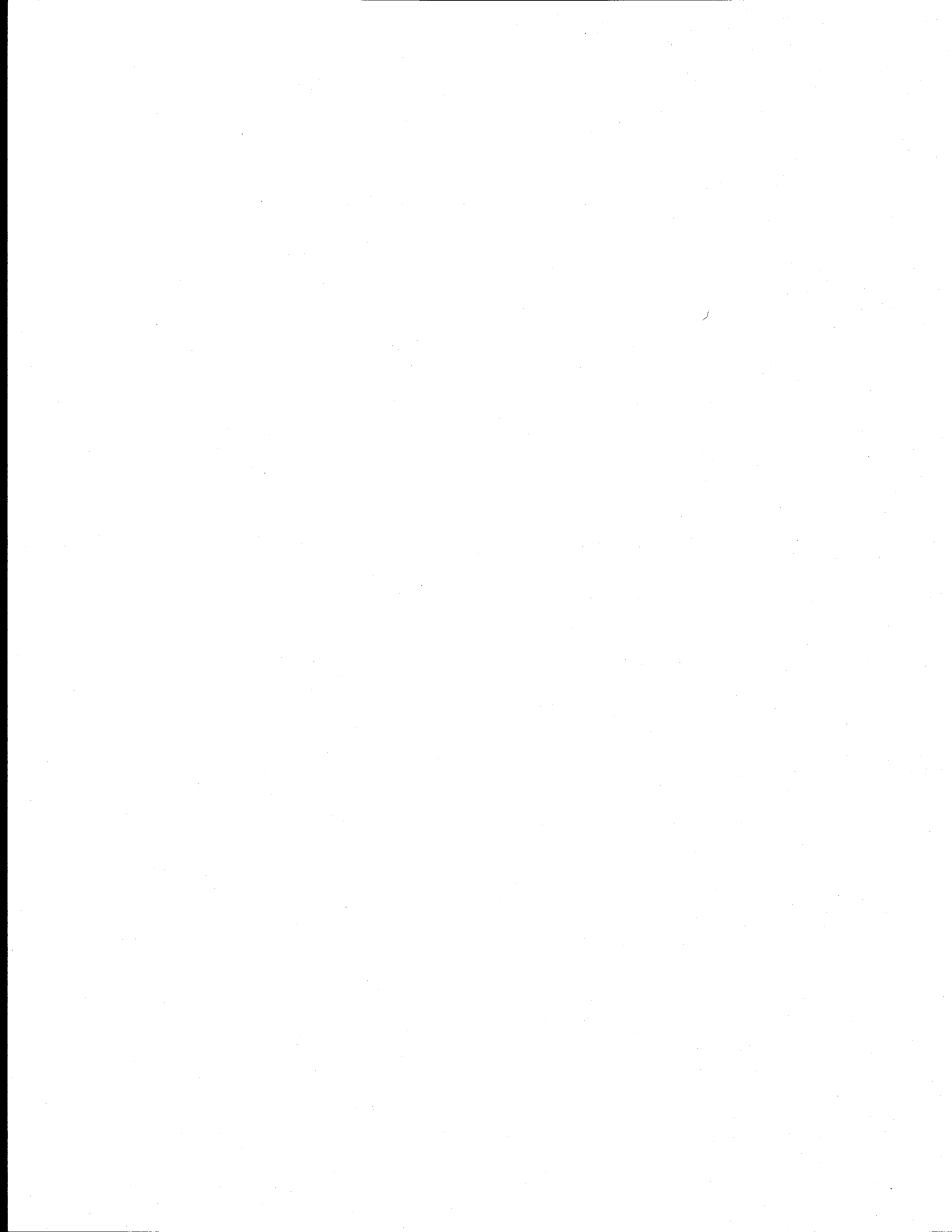
ROAD NO _____ DATE 5/13/07 DAY AM BEGIN 10:30 END 11:20

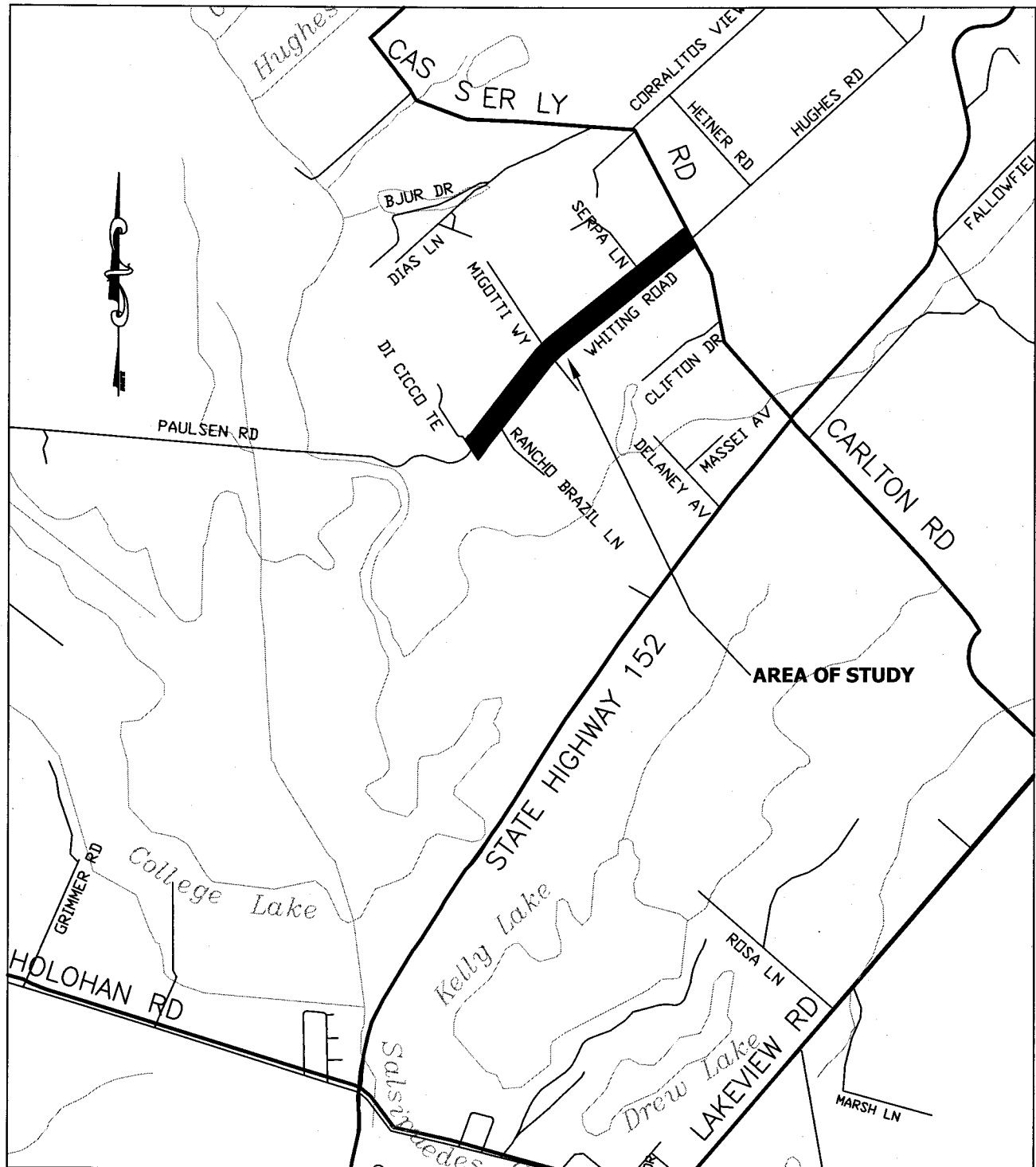
POSTED SPEED 25 WEATHER cloudy

NUMBER OF LANES 2 GRADE 2% CALIBRATED

NUMBER OF VEHICLES

MPH	DIRECTION		TOTAL OF EACH SPEED	DIRECTION		TOTAL OF EACH SPEED
	FROM	NORTH		SOUTH	TO	
60						
59						
58						
57						
56						
55						
54						
53						
52						
51						
50						1
49						0
48						0
47						0
46						0
45						0
44						0
43						0
42			1			0
41			0			0
40			4			2
39			2			2
38			1	-		7
37			3			4
36	-		6	-		5
35			1			4
34	-		9	-		6
33	- -		10	-		10
32	-		5			4
31	- -		11	-		6
30			3	- -		11
29	-		6			4
28			3	-		5
27			1			3
26			3			2
25			6			0
24			0			3
23			2			1
22						
21						
20						1
TOTAL			71	TOTAL		81





**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
 RADAR SPEED SURVEY
 WHITING ROAD
 CASSERLY ROAD TO 0.63 MILES SOUTHWESTERLY**

TRAFFIC AND ENGINEERING REPORT
MARCH 2008

PURPOSE:

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

LOCATION:

Whiting Road from Casserly Road to a location 0.63 miles southwesterly. (Speed Data collected 0.4 miles SW of Casserly Road).

PREVAILING SPEED DATA:

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

The prevailing speeds are:

Direction	Westbound	Eastbound
85 th Percentile	39 mph	37 mph
Pace Speed	26-36 mph	28-38 mph
Average Speed	31.44 mph	32.21 mph

ANALYSIS:

The prevailing 85th percentile speeds are 39 MPH and 37 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 California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 35 MPH. The factors justifying a further reduction are a route to and from school, shoulder conditions with pedestrian traffic in the roadway without sidewalks, and numerous driveways. It is recommended that the existing 25 MPH speed limit be increased to 35 MPH with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Whiting Road			
From:	Casserly Road	43	1	100.0%
To:	0.63 mi. SW	42	2	98.3%
Direction:	Westbound	41	1	94.9%
Weather:	Cloudy	40	4	93.2%
Posted Speed:	25 MPH	39	2	86.4%
Begin time:	2:20 PM	38	0	83.1%
End time:	3:25 PM	37	1	83.1%
		36	2	81.4%
		35	4	78.0%
		34	0	71.2%
		33	2	71.2%
		32	9	67.8%
		31	6	52.5%
		30	4	42.4%
		29	3	35.6%
CRITICAL SPEED	39	28	1	30.5%
AVERAGE SPEED	31.44	27	4	28.8%
MEDIAN SPEED	31.0	26	6	22.0%
STANDARD DEVIATION	5.58	25	2	11.9%
PACE RANGE	26 - 36	24	2	8.5%
PERCENTAGE IN PACE	66.1%	23	0	5.1%
TOTAL # OF AUTOS	59	22	1	5.1%
		21	1	3.4%
		20	1	1.7%
		19	0	0.0%

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Whiting Road				
From:	Cassery Road	43	1	◆	100.0%
To:	0.63 mi. SW	42	1	◆	98.1%
Direction:	Eastbound	41	0		96.2%
Weather:	Cloudy	40	3	◆◆◆	96.2%
Posted Speed:	25 MPH	39	1	◆	90.6%
Begin time:	2:20 PM	38	1	◆	88.7%
End time:	3:25 PM	37	1	◆	86.8%
		36	3	◆◆◆	84.9%
		35	7	◆◆◆◆◆◆◆	79.2%
		34	3	◆◆◆	66.0%
		33	5	◆◆◆◆◆	60.4%
		32	4	◆◆◆◆	50.9%
		31	4	◆◆◆◆	43.4%
		30	4	◆◆◆◆	35.8%
		29	5	◆◆◆◆◆	28.3%
CRITICAL SPEED	37	28	3	◆◆◆	18.9%
AVERAGE SPEED	32.21	27	1	◆	13.2%
MEDIAN SPEED	32.0	26	3	◆◆◆	11.3%
STANDARD DEVIATION	4.97	25	0		5.7%
PACE RANGE	28 - 38	24	0		5.7%
PERCENTAGE IN PACE	73.6%	23	0		5.7%
TOTAL # OF AUTOS	53	22	1	◆	5.7%
		21	0		3.8%
		20	2	◆◆	3.8%
		19	0		0.0%
		18	0		0.0%
		17	0		0.0%
		16	0		0.0%
		15	0		0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION WHITING ROAD (B/S CAPITAN R BRIDGE) BY JGL
 ROAD NO _____ DATE 5-30-07 DAY WED BEGIN 220 END 325
 POSTED SPEED 25 WEATHER CLOUDY
 NUMBER OF LANES 2 GRADE 0% CALIBRATED

NUMBER OF VEHICLES

MPH	DIRECTION TO	TOTAL OF EACH SPEED	DIRECTION	TOTAL OF EACH SPEED
	ALANZA → W		E ← FROM ALANZA	
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48				
47				
46				
45				
44				
43		1	1	1
42		2	1	1
41		1		0
40		4	3	3
39		2	1	1
38		0	1	1
37		1	1	1
36		2	3	3
35		4	3	7
34		0	3	3
33		2	3	5
32		9	3	4
31		6	3	4
30		4	4	4
29		3	2	5
28		1	2	3
27		4	1	1
26		6	3	3
25		2		0
24		2		0
23		0		0
22		1	1	1
21		1		0
20		1	1	2
TOTAL		59	TOTAL 53	

