

THOMAS L. BOLICH DIRECTOR OF PUBLIC WORKS

County of Santa Cruz

DEPARTMENT OF PUBLIC WORKS

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

TRAFFIC AND ENGINEERING REPORT



DIRECTOR OF PUBLIC WORKS

County of Santa Cruz

DEPARTMENT OF PUBLIC WORKS

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

March 11, 2009

SUBJECT: TRAFFIC AND ENGINEERING REPORT MARCH 2009

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

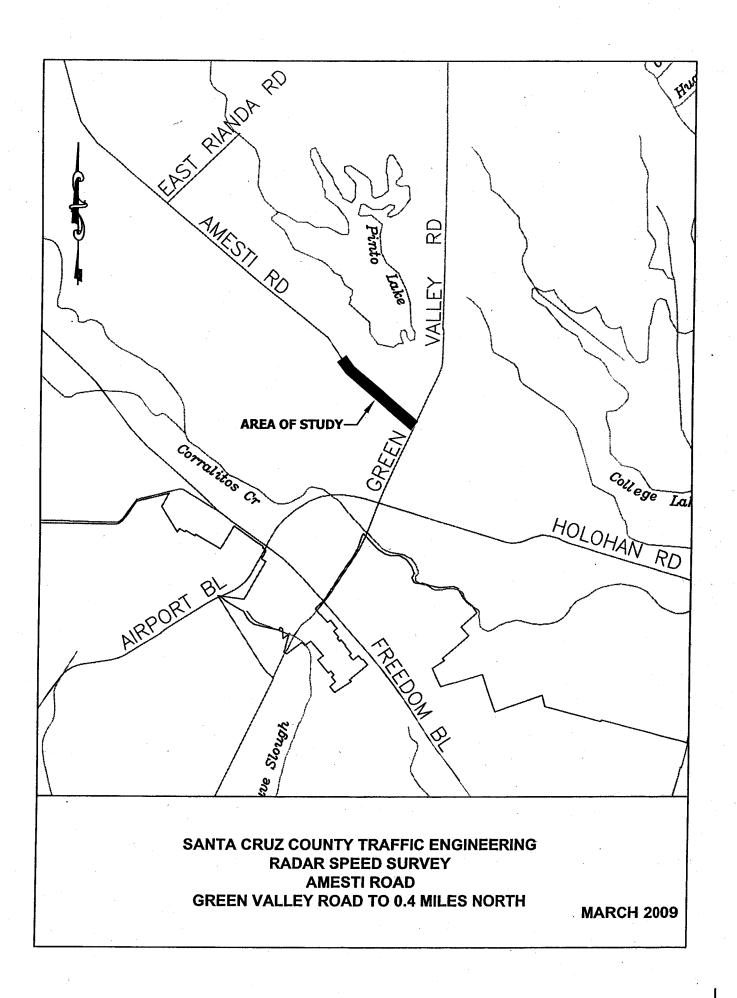
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Attachment

March, 2009

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PURPOSE:

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

LOCATION:

Amesti Road between Green Valley Road and 0.4 miles northwesterly. (Speed Data collected at Amesti Elementary School).

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	31 mph	31 mph
Pace Speed	22-32 mph	22-32 mph
Average Speed	27.11 mph	27.01 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 a prima facie 25 MPH residential district, adjacent to an elementary school and numerous driveways. It is recommended that the existing 25 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

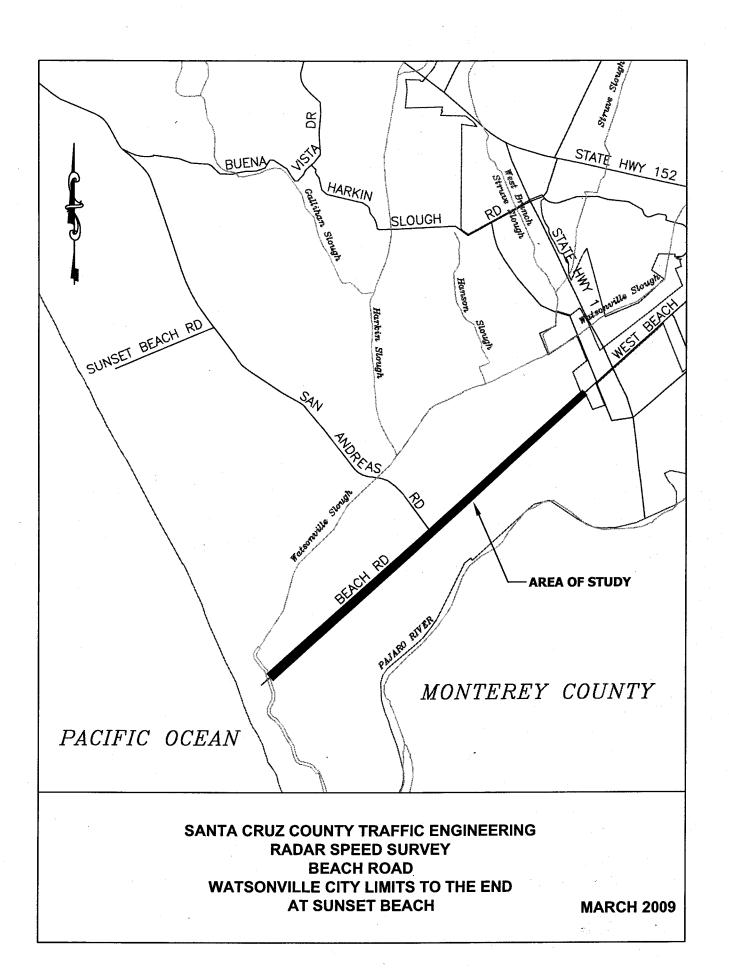
			<u>MPH</u>	# of Vehic	<u>les</u>	<u>Percentage</u>
Route:	Amesti Road					
From:	Green Valley Rd.		35	1	•	100.0%
To:	0.4 miles northwesterly		34	1	•	98.7%
Direction:	Westbound		33	1	•	97.4%
Weather:	Sunny/Cloudy		32	6	*****	96.1%
Posted Speed:	25		31	8	*****	88.2%
Begin time:	2:10 PM		30	4	***	77.6%
End time:	3:00 PM		29	4	***	72.4%
			28	5	****	67.1%
			27	12	*****	60.5%
			26	7	*****	44.7%
			25	8	****	35.5%
			24	8	*****	25.0%
			23	3	***	14.5%
			22	7	*****	10.5%
			21	1	♦	1.3%
CRITICAL SPEED	•	31	20	0		0.0%
AVERAGE SPEED		27.11	19	0		0.0%
MEDIAN SPEED		27.0	18	0		0.0%
STANDARD DEVI	ATION	3.37	17	0		0.0%
PACE RANGE		22 - 32	16	0		0.0%
PERCENTAGE IN	PACE	86.8%	15	0		0.0%
TOTAL # OF AUT	os	76				

			<u>MPH</u>	# of Vehic	:les	<u>Percentage</u>
Route:	Amesti Road					
From:	0.4 miles northwesterly		38	1	•	100.0%
To:	Green Valley Rd.		37	0		98.7%
Direction:	Eastbound		36	0		98.7%
Weather:	Sunny/Cloudy		35	3	***	98.7%
Posted Speed:	25		34	1	◆	94.8%
Begin time:	2:10 PM		33	2	**	93.5%
End time:	3:00 PM		32	2	**	90.9%
			31	7	*****	88.3%
			30	3	***	79.2%
			29	6	*****	75.3%
			28	7	*****	67.5%
			27	7	*****	58.4%
		,	26	6	*****	49.4%
			25	11	******	41.6%
			24	6	*****	27.3%
CRITICAL SPEED)	31	23	6	*****	19.5%
AVERAGE SPEE	D	27.01	22	5	****	11.7%
MEDIAN SPEED		27.0	21	4	***	5.2%
STANDARD DEV	IATION	3.84	20	0		0.0%
PACE RANGE		22 - 32	19	0		0.0%
PERCENTAGE IN	I PACE	83.1%	18	0		0.0%
TOTAL # OF AUT	os .	77	17	0		0.0%
			16	0		0.0%
			15	0		0.0%

Santa Cruz County
Department of Public Works

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PURPOSE:

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

LOCATION:

Beach Road from the Watsonville City Limit to the end at Sunset Beach. (Speed Data collected at Thurwachter Road).

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	46 mph
Pace Speed	38-48 mph	34-44 mph
Average Speed	41.87 mph	39.93 mph

ANALYSIS:

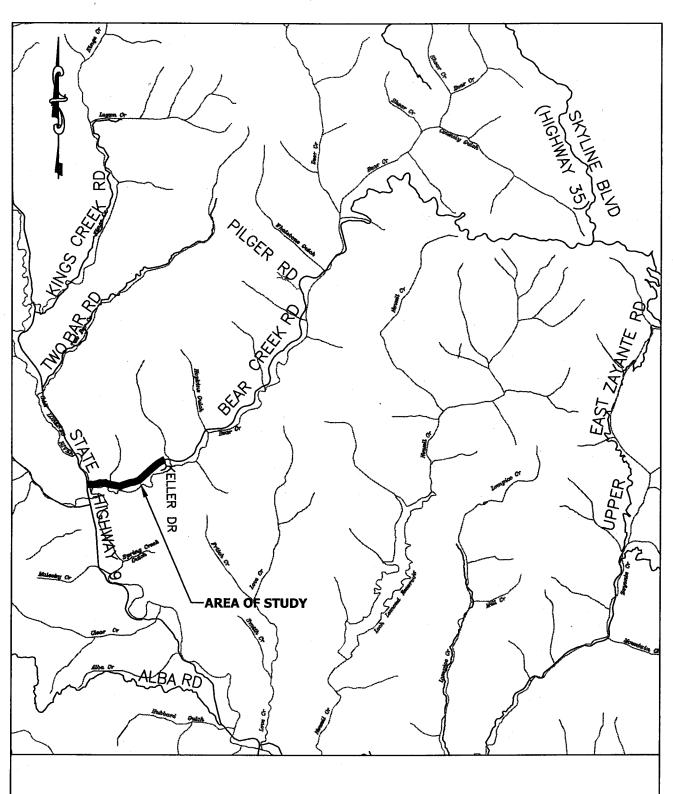
The prevailing 85th percentile speeds are 47 MPH and 46 MPH depending on the direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 45 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering 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 tourist area with State Park beaches, an agricultural area with farm equipment and produce trucks, and bicycle traffic without bike lanes or shoulders. It is recommended that the existing 45 MPH speed limit be decreased to 40 MPH with enforcement activity taking place at speeds above the safe speed.

			<u>MPH</u>	# of Vehi	icles	<u>Percentage</u>
Route:	Beach Road					· ·
From:	Watsonville City Limits		52	1	•	100.0%
To:	End of Beach Road		51	1	•	98.8%
Direction:	Eastbound		50	1	•	97.7%
Weather:	Cloudy		49	2	**	96.5%
Posted Speed:	45 MPH		48	3	***	94.2%
Begin time:	9:00AM		47	3	***	90.7%
End time:	10:15 AM		46	3	***	87.2%
			45	1	*	83.7%
			44	5	****	82.6%
			43	8	******	76.7%
			42	9	******	67.4%
			41	5	****	57.0%
			40	2	**	51.2%
			39	4	****	48.8%
			38	7	*****	44.2%
CRITICAL SPEED		46	37	7	*****	36.0%
AVERAGE SPEED	•	39.93	36	5	****	27.9%
MEDIAN SPEED		40.0	35	4	****	22.1%
STANDARD DEVIAT	ION	5.28	34	7	*****	17.4%
PACE RANGE		34 - 44	33	3	***	9.3%
PERCENTAGE IN PA		67.4%	32	1	•	5.8%
TOTAL # OF AUTOS	•	86	31	0		4.7%
		_	30	3	***	4.7%
			29	0		1.2%
			28	1	•	1.2%

			<u>MPH</u>	# of Vehi	icles	<u>Percentage</u>
Route:	Beach Road					
From:	Watsonville City Limits		54	1	•	100.0%
To:	End of Beach Road		53	0		98.7%
Direction:	Westbound		52	Õ		98.7%
Weather:	Cloudy		51	1	•	98.7%
Posted Speed:	45 MPH		50	2	**	97.3%
Begin time:	9:00AM		49	3	***	94.7%
End time:	10:15 AM		48	4	***	90.7%
			47	4	***	85.3%
			46	4	***	80.0%
			45	6	*****	74.7%
			44	7	*****	66.7%
			43	3	***	57.3%
			42	4	****	53.3%
			41	4	****	48.0%
			40	7	*****	42.7%
CRITICAL SPEED		47	39	5	****	33.3%
AVERAGE SPEED		41.87	38	6	*****	26.7%
MEDIAN SPEED		42.0	37	1	•	18.7%
STANDARD DEVIA	ΓΙΟΝ	5.07	36	2	**	17.3%
PACE RANGE		38 - 48	35	4	****	14.7%
PERCENTAGE IN P	· · · ·	66.7%	34	5	****	9.3%
TOTAL # OF AUTOS	5	75	33	. 0		2.7%
			32	1	•	2.7%
			31	1	•	1.3%

Santa Cruz County
Department of Public Works

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TOTAL	75		TOTA	L 86
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SANTA CRUZ COUNTY TRAFFIC ENGINEERING RADAR SPEED SURVEY BEAR CREEK ROAD STATE HIGHWAY 9 TO KELLER DRIVE

MARCH 2009

PURPOSE:

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

LOCATION:

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

PREVAILING SPEED DATA:

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

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	33 mph	36 mph
Pace Speed	25-35 mph	27-37 mph
Average Speed	29.33 mph	32.79 mph

ANALYSIS:

The prevailing 85th percentile speeds are 36 MPH and 33 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 recent accident record, safe stopping sight distance, commute route, major arterial, intersection configurations and shoulder conditions with school children and other pedestrian traffic in the roadway without sidewalks. It is recommended that the existing 30 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

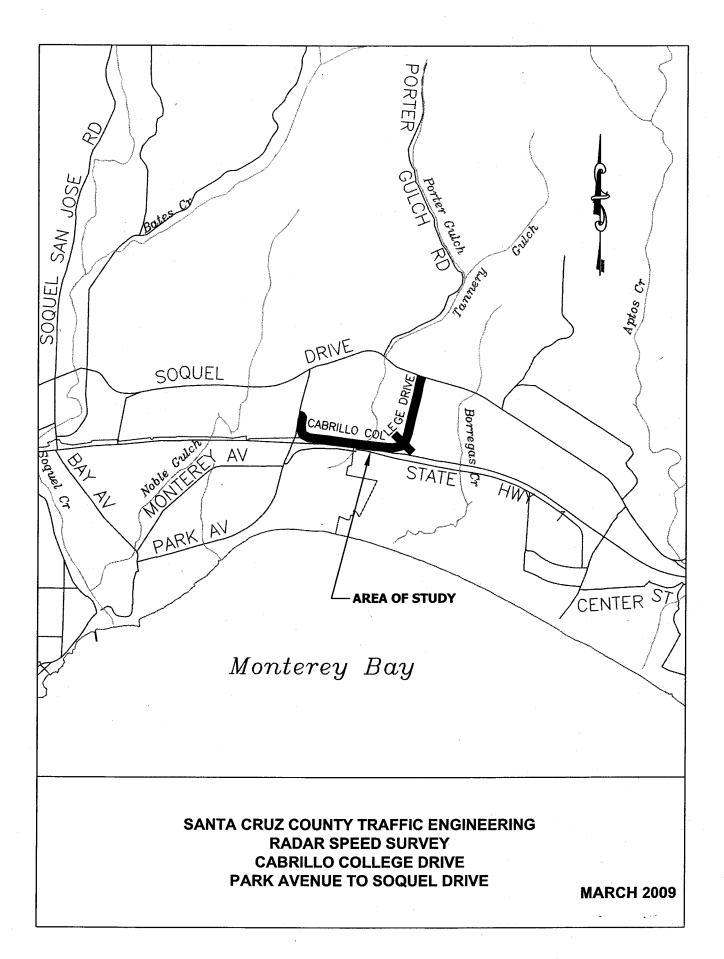
			<u>MPH</u>	# of Vehi	cles	<u>Percentage</u>
Route:	Bear Creek Rd					
From:	Hwy 9		37	1	•	100.0%
To:	Keller Dr		36	0		98.2%
Direction:	Northbound		35	2	**	98.2%
Weather:	Sunny		34	0		94.5%
Posted Speed:	30 MPH		33	6	*****	94.5%
Begin time:	9:45 AM		32	5	****	83.6%
End time:	10:15 AM		31	4	****	74.5%
			30	7	*****	67.3%
			29	8	*****	54.5%
			28	5	****	40.0%
			27	6	*****	30.9%
			26	7	*****	20.0%
			25	3	***	7.3%
			24	0		1.8%
			23	1	•	1.8%
CRITICAL SPEED		33	22	0		0.0%
AVERAGE SPEED		29.33	21	0		0.0%
MEDIAN SPEED		29.0	20	0		0.0%
STANDARD DEVIAT	TION	2.95	19	0		0.0%
PACE RANGE		25 - 35	18	0		0.0%
PERCENTAGE IN P	ACE	92.7%	17	0		0.0%
TOTAL # OF AUTOS	3	55	16	0		0.0%
			15	0		0.0%
			14	0		0.0%

13

			<u> MPH</u>	<u># of Vehi</u>	<u>cles</u>	<u>Percentage</u>
Route:	Bear Creek Rd					
From:	Hwy 9		39	1	•	100.0%
To:	Keller Dr		38	2	**	98.1%
Direction:	Southbound		37	1	•	94.2%
Weather:	Sunny		36	7	*****	92.3%
Posted Speed:	30 MPH		35	3	***	78.8%
Begin time:	9:45 AM		34	9	******	73.1%
End time:	10:15 AM		33	3	***	55.8%
			32	9	******	50.0%
			31	9	******	32.7%
			30	2	**	15.4%
			29	2	**	11.5%
			28	0		7.7%
			27	2	**	7.7%
			26	2	**	3.8%
			25	0		0.0%
CRITICAL SPEED		36	24	0		0.0%
AVERAGE SPEED		32.79	23	0		0.0%
MEDIAN SPEED		32.5	22	0		0.0%
STANDARD DEVIA	TION	2.97	21	0		0.0%
PACE RANGE		27 - 37	20	0		0.0%
PERCENTAGE IN F	PACE	88.5%	19	0		0.0%
TOTAL # OF AUTO	S	52	18	0	•	0.0%
			17	0		0.0%
			16	0		0.0%

Santa Cruz County Department of Public Works

LOCA	ATION Bear Cr	reek Rd @ Hu	schleber	xxy	Ln		Bì	A-M
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PURPOSE:

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

LOCATION:

Cabrillo College Drive from Park Avenue a distance of 0. 66 miles south easterly. (Speed Data collected at 2505 Cabrillo College 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	45 mph	39 mph
Pace Speed	35-45 mph	30-40 mph
Average Speed	39.36 mph	35.20 mph

ANALYSIS:

The prevailing 85th percentile speeds are 45 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 recent accident record, route serving a community college with bicycle traffic without bike lanes 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.

			<u>MPH</u>	# of Vehi	<u>cles</u>	<u>Percentage</u>
Route:	Cabrillo College Drive					
From:	Park Avenue		48	1	•	100.0%
To:	South a distance of 0.66 miles		47	5	****	98.1%
Direction:	Westbound		46	0		88.7%
Weather:	Sunny		45	3	***	88.7%
Posted Speed:	35 MPH		44	3	***	83.0%
Begin time:	10:25 AM		43	1	•	77.4%
End time:	11:55 AM		42	4	****	75.5%
			41	2	**	67.9%
			40	6	*****	64.2%
			39	6	*****	52.8%
			38	1	•	41.5%
			37	3	***	39.6%
			36	4	****	34.0%
			35	9	*****	26.4%
			34	1	•	9.4%
CRITICAL SPEED		45	33	1	•	7.5%
AVERAGE SPEED		39.36	32	1	•	5.7%
MEDIAN SPEED		39.0	31	2	**	3.8%
STANDARD DEVIA	TION	4.55	30	0		0.0%
PACE RANGE		35 - 45	29	0		0.0%
PERCENTAGE IN F		73.6%	28	0		0.0%
TOTAL # OF AUTO	S	53	27	0		0.0%
			26	0		0.0%
			25	0		0.0%
			24	0		0.0%
			23	0		0.0%
			22	0		0.0%
			21	0		0.0%

			<u> MPH</u>	# of Vehi	cles	<u>Percentage</u>
Route:	Cabrillo College Drive					
From:	Park Avenue		49	1	•	100.0%
To:	South a distance of 0.66 miles		48	0		98.2%
Direction:	Eastbound		47	0		98.2%
Weather:	Sunny		46	0		98.2%
Posted Speed:	35 MPH		45	1	•	98.2%
Begin time:	10:25 AM		44	0		96.4%
End time:	11:55 AM		43	3	***	96.4%
			42	1	•	91.1%
			41	1	•	89.3%
			40	1	•	87.5%
			39	3	***	85.7%
			38	2	**	80.4%
			37	7	*****	76.8%
			36	6	*****	64.3%
			35	2	**	53.6%
CRITICAL SPEED		39	34	6	****	50.0%
AVERAGE SPEED		35.20	33	7	*****	39.3%
MEDIAN SPEED		34.5	32	3	***	26.8%
STANDARD DEVIAT	ION	4.52	31	5	****	21.4%
PACE RANGE		30 - 40	30	2	**	12.5%
PERCENTAGE IN PA	ACE	76.8%	29	3	***	8.9%
TOTAL # OF AUTOS	3	56	28	1	•	3.6%
			27	Ó		1.8%
			26	1	•	1.8%
			25	0		0.0%

Santa Cruz County
Department of Public Works

			·
LOCATION Cabrilla College Dr. Po	irk Are to.	6 mi SE, Rt 2505 BY	1 A -M
ROAD NO DATE 6/27	OF DAY F.	vide BEGIN 10:25 AMEND 11:	55 AM
POSTED SPEED 35 mph		THER Cloudy	
		CALIBRATED	·
	NUMBER OF		
DIRECTION	TOTAL	DIRECTION	TOTAL
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PURPOSE:

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

LOCATION:

Cabrillo College Drive from Soquel Drive to a location south a distance of 0.34 mile. (Speed Data collected at football field).

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	37 mph
Pace Speed	26-36 mph	28-38 mph
Average Speed	31.66 mph	32.24 mph

ANALYSIS:

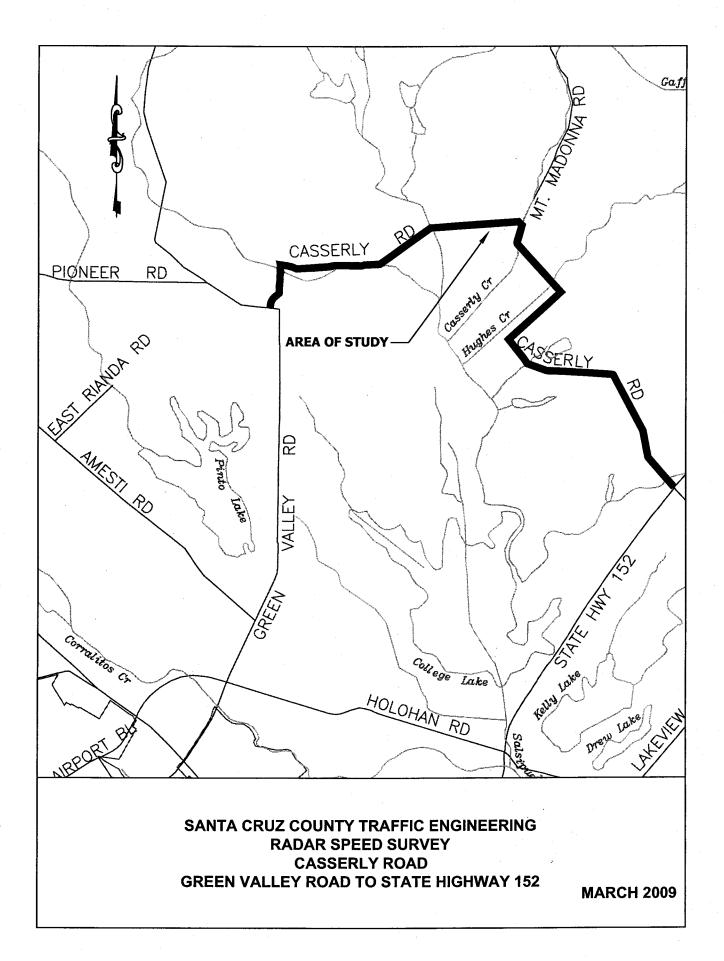
The prevailing 85th percentile speeds are 37 MPH and 35 MPH depending on the direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 35 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering 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 recent accident record, route serving a community college with bicycle traffic without bike lanes and shoulder conditions with pedestrians in the roadway without sidewalks. It is recommended that the existing 30 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

			<u>MPH</u>	# of Vehic	cles	<u>Percentage</u>
Route:	Cabrillo College Drive					
From:	Soquel Drive		39	1	•	100.0%
To:	South a distance of 0.34 miles		38	1	♦	98.4%
Direction:	Northbound		37	4	***	96.9%
Weather:	Sunny		36	2	**	90.6%
Posted Speed:	30 MPH		35	3	***	87.5%
Begin time:	11:40 AM		34	9	******	82.8%
End time:	1:00 PM		33	10	******	68.8%
			32	5	****	53.1%
			31	6	*****	45.3%
			30	5	****	35.9%
			29	5	****	28.1%
			28	4	****	20.3%
			27	3	***	14.1%
			26	4	****	9.4%
			25	2	**	3.1%
CRITICAL SPEED		35	24	0		0.0%
AVERAGE SPEED		31.66	23	0		0.0%
MEDIAN SPEED		32.0	22	0		0.0%
STANDARD DEVIA	TION	3.41	21	0		0.0%
PACE RANGE		26 - 36	20	0		0.0%
PERCENTAGE IN I		84.4%	19	0		0.0%
TOTAL # OF AUTO	S	64	18	0		0.0%

			<u>MPH</u>	# of Vehi	cles	<u>Percentage</u>
Route:	Cabrillo College Drive			-		
From:	Soquel Drive		43	1	•	100.0%
To:	South a distance of 0.34 miles		42	0		98.7%
Direction:	Southbound		41	1	•	98.7%
Weather:	Sunny		40	3	***	97.5%
Posted Speed:	30 MPH		39	2	••	93.7%
Begin time:	11:40 AM		38	2	**	91.1%
End time:	1:00 PM		37	4	****	88.6%
			36	5	****	83.5%
			35	3	***	77.2%
			34	8	*****	73.4%
			33	11	*******	63.3%
			32	7	*****	49.4%
			31	6	*****	40.5%
			30	3	***	32.9%
			29	6	*****	29.1%
CRITICAL SPEED		37	28	6	*****	21.5%
AVERAGE SPEED		32.24	27	2	**	13.9%
MEDIAN SPEED		33.0	26	3	***	11.4%
STANDARD DEVIATION	ON	4.35	25	4	****	7.6%
PACE RANGE		28 - 38	24	1	•	2.5%
PERCENTAGE IN PA	CE	74.7%	23	1	•	1.3%
TOTAL # OF AUTOS		79	22	0		0.0%

Santa Cruz County Department of Public Works

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PURPOSE:

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

LOCATION:

Casserly Road from Green Valley Road to State Highway 152. (Speed Data collected at 466 Casserly 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	41 mph
Pace Speed	29-39 mph	33-43 mph
Average Speed	33.41 mph	35.94 mph

ANALYSIS:

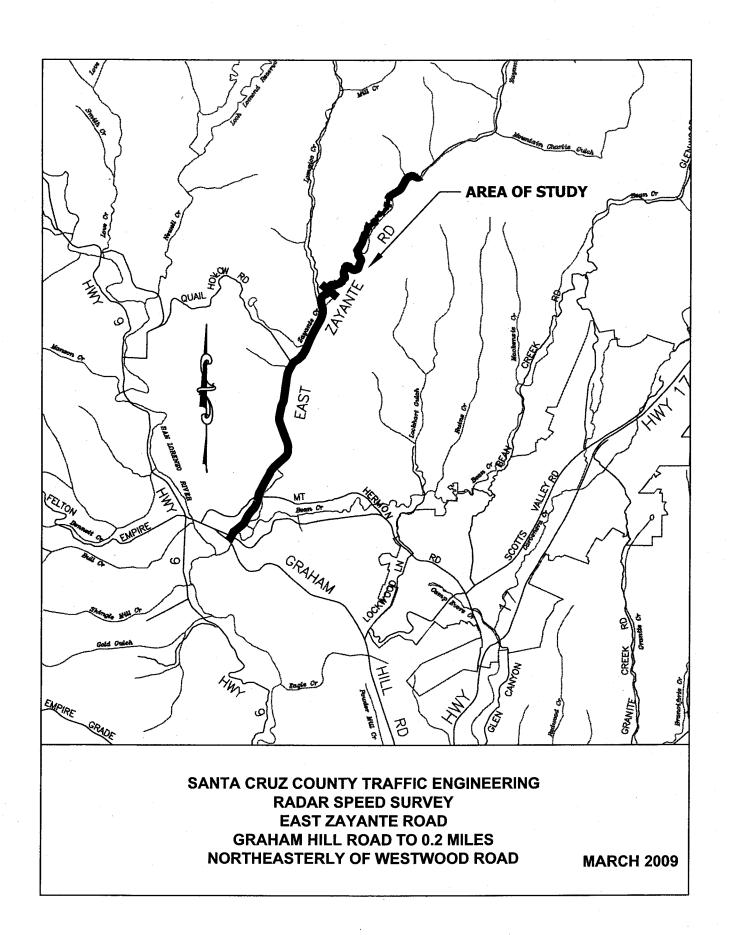
The prevailing 85th percentile speeds are 41 MPH and 40 MPH depending on the direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 40 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering 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 major agricultural area with a high volume of truck traffic, farm equipment, and field workers in addition to bicycle and pedestrian traffic in the roadway without bike lanes or pedestrians facilities. It is recommended that the existing 35 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

			MPH	# of Vehic	les	<u>Percentage</u>
Route:	Casserly Road					
From:	Green Valley Road		47	1	•	100.0%
To:	State Highway 152		46	1	•	98.2%
Direction:	Northtbound		45	i i	•	96.4%
Weather:	Cloudy		44	Ö	•	94.6%
Posted Speed:	35 MPH		43	2	••	94.6%
Begin time:	9:00AM		42	1	•	91.1%
End time:	10:40 AM		41	2	*	89.3%
			40	1	•	85.7%
	*		39	1	× ·	83.9%
			38	3	***	82.1%
			37	3	***	76.8%
			36	3	***	71.4%
			35	1	•	66.1%
			34	3	* Y	64.3%
			33	5	***	58.9%
CRITICAL SPEE	D	40	32	4	****	
AVERAGE SPEE	D	33.41	31	4	****	50.0%
MEDIAN SPEED		32.5	30		****	42.9%
STANDARD DEV		5.75		6		35.7%
PACE RANGE PERCENTAGE IN PACE TOTAL # OF AUTOS		29 - 39	29	6	****	25.0%
			28	2	♦♦	14.3%
		67.9%	27	. 1	.	10.7%
TOTAL # OF AU	103	56	26	0		8.9%
			25	3	***	8.9%
			24	0		3.6%
			23	1	•	3.6%
			22	1	•	1.8%

			<u>MPH</u>	# of Vehicle	es	Percentage Percentage
Route:	Casserly Road					
From:	Green Valley Road		50	. 1	•	100.0%
To:	State Highway 152		49	1	•	98.6%
Direction:	Southbound		48	2	••	97.1%
Weather:	Cloudy		47	0		94.2%
Posted Speed:	35 MPH		46	2	••	94.2%
Begin time:	9:00AM		45	ō		91.3%
End time:	10:40 AM		44	Õ		91.3%
			43	1	•	91.3%
			42	1	•	89.9%
			41	4	****	88.4%
	· ·		40	3	***	82.6%
			39	5	****	78.3%
			38	7	*****	71.0%
			37	3	***	60.9%
			36	9	*****	56.5%
CRITICAL SPEE	D	41	35	6	*****	43.5%
AVERAGE SPEE	D	35.94	34	5	****	34.8%
MEDIAN SPEED		36.0	33	2	**	27.5%
STANDARD DE\	/IATION	5.82	32	0		24.6%
PACE RANGE		33 - 43	31	4	****	24.6%
PERCENTAGE I		65.2%	30	4	***	18.8%
TOTAL # OF AU	TOS	69	29	2	**	13.0%
			28	1	•	10.1%
			27	2	**	8.7%
			26	<u></u>		5.8%
			25	3	***	5.8%
			24	Õ		1.4%
	,		23	1	•	1.4%

RADAR SPEED SURVEY Santa Cruz County Department of Public Works

LOCATION CASSERLY PD (@	# 466)	BY 16L
		10:40
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	NUMBER OF VEHICLES	
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TOTAL	56 TOTA	4 69 29



PURPOSE:

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

LOCATION:

East Zayante Road from Graham Hill Road to .10 mile north of Lompico Road. (Speed Data collected north of Mt. Hermon Road overpass).

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	45 mph	43 mph
Pace Speed	37-47 mph	36-46 mph
Average Speed	41.14 mph	39.05 mph

ANALYSIS:

The prevailing 85th percentile speeds are 45 MPH and 43 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, numerous driveways and intersections, and shoulder conditions with pedestrians in the roadway without sidewalks. It is recommended that the existing 35 MPH speed limit be increased to 40 MPH with enforcement activity taking place at speeds above the safe speed.

			<u>MPH</u>	# of Vehic	cles	<u>Percentage</u>
Route:	E Zayante Rd					
From:	Graham Hill Rd		49	1	♦	100.0%
To:	0.1 mi N of Lompico Rd		48	0		98.3%
Direction:	Northbound		47	3	***	98.3%
Weather:	Sunny		46	3	***	93.2%
Posted Speed:	35 mph		45	4	***	88.1%
Begin time:	11:55 AM		44	5	****	81.4%
End time:	12:20 PM		43	5	****	72.9%
			42	7	*****	64.4%
			41	4	***	52.5%
			40	5	****	45.8%
			39	7	*****	37.3%
			38	8	******	25.4%
			37	4	***	11.9%
			36	1	•	5.1%
			35	0		3.4%
CRITICAL SPEED		45	34	0		3.4%
AVERAGE SPEED		41.14	33	1	♦	3.4%
MEDIAN SPEED		41.0	32	1	•	1.7%
STANDARD DEVIATION)N	3.53	31	0		0.0%
PACE RANGE		37 - 47	30	0		0.0%
PERCENTAGE IN PAC	E	88.1%	29	0		0.0%
TOTAL # OF AUTOS		59	28	0		0.0%

			<u> MPH</u>	# of Vehi	<u>cles</u>	<u>Percentage</u>
Route:	E Zayante Rd					
From:	Graham Hill Rd		49	1	•	100.0%
To:	0.1 mi N of Lompico Rd		48	1	♦	98.2%
Direction:	Southbound		47	0		96.4%
Weather:	Sunny		46	0	·	96.4%
Posted Speed:	35 mph		45	2	**	96.4%
Begin time:	11:55 AM		44	2	• ♦ ♦	92.7%
End time:	12:20 PM		43	7	****	89.1%
			42	4	***	76.4%
			41	5	****	69.1%
			40	7	*****	60.0%
			39	4	***	47.3%
			38	3	***	40.0%
			37	3	***	34.5%
			36	5	****	29.1%
			35	2	* *	20.0%
CRITICAL SPEED		43	34	1	♦	16.4%
AVERAGE SPEED		39.05	33	4	***	14.5%
MEDIAN SPEED		40.0	32	1	♦	7.3%
STANDARD DEVIATI	ON	4.37	31	0		5.5%
PACE RANGE		36 - 46	30	3	***	5.5%
PERCENTAGE IN PA	CE	76.4%	29	0		0.0%
TOTAL # OF AUTOS		55	28	0		0.0%

Santa Cruz County
Department of Public Works

LOCATIONE Zayante Rd. Growin H	in 22 to.	I Mi N of lampica (N of Mt Harmon B)	M-A				
ROAD NO DATE 6/20/08	DAY FE	BEGIN 11:55 AMEND 12	120 PM				
POSTED SPEED 35 MPH	POSTED SPEED 35 MPH WEATHER SUNNT-Clear						
NUMBER OF LANES 2_ GRAD	E <u>\'/.</u>	CALIBRATED ~					
NU	IMBER OF \	·					
DIRECTION	TOTAL	DIRECTION	TOTAL				
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TOTAL	69	TOTAL	165				

PURPOSE:

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

LOCATION:

East Zayante Road from 0.10 mile north of Lompico Road to 0.20 mile northeasterly of Westwood Road. (Speed Data collected at 9571 E. Zayante Rd.).

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	21-31 mph	21-31 mph
Average Speed	26.12 mph	25.48 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 safe stopping sight distance, numerous driveways, and shoulder conditions with pedestrians 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.

			<u> MPH</u>	# of Vehic	<u>cles</u>	Percentage
Route:	E Zayante Rd					
From:	0.1 mi N of Lompico Rd		38	1	♦	100.0%
To:	0.2 mi N of Westwood Rd		37	0		98.0%
Direction:	Northbound		36	1	♦	98.0%
Weather:	Sunny		35	0		96.1%
Posted Speed:	25 mph		34	2	* *	96.1%
Begin time:	11:35 AM		33	. 1	•	92.2%
End time:	1:35 PM		32	1	•	90.2%
			31	1	♦	88.2%
			30	3	***	86.3%
			29	3	***	80.4%
			28	4	***	74.5%
			27	3	***	66.7%
			26	3	***	60.8%
			25	6	****	54.9%
			24	7	*****	43.1%
CRITICAL SPEED		30	23	6	****	29.4%
AVERAGE SPEED		26.12	22	4	***	17.6%
MEDIAN SPEED		25.0	21	2	*	9.8%
STANDARD DEVIATI	ON	4.21	20	3	***	5.9%
PACE RANGE		21 - 31	19	0		0.0%
PERCENTAGE IN PA	CE	80.4%	18	0		0.0%
TOTAL # OF AUTOS		51	17	0		0.0%

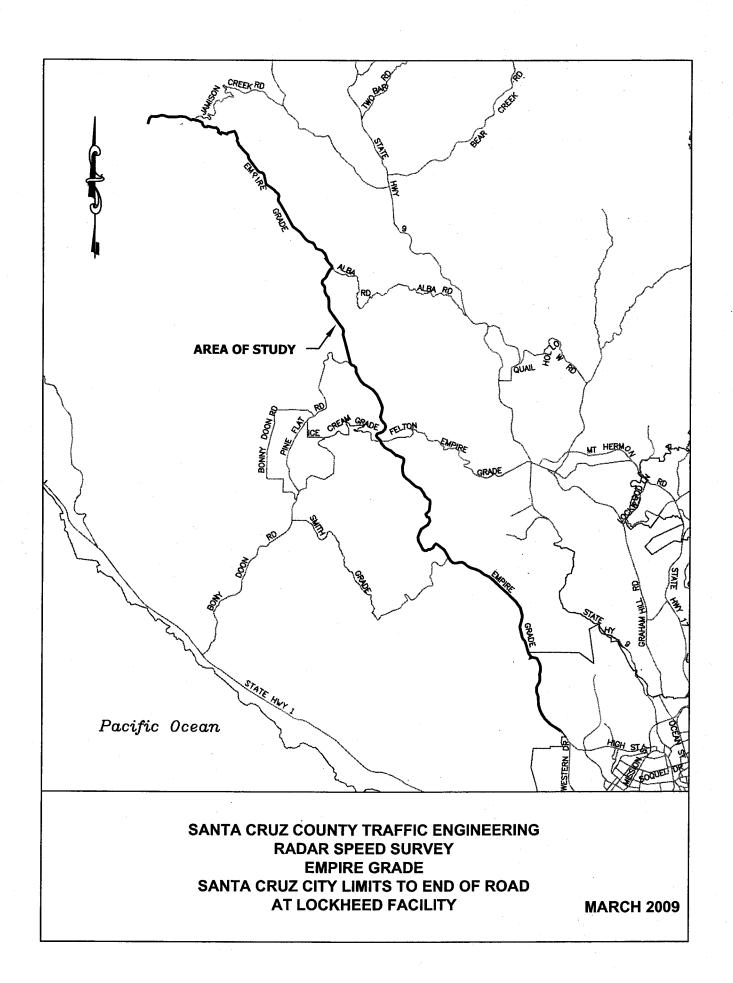
			<u>MPH</u>	# of Vehic	<u>cles</u>	<u>Percentage</u>
Route:	E Zayante Rd					
From:	0.1 mi N of Lompico Rd		37	1	•	100.0%
To:	0.2 mi N of Westwood Rd		36	0		98.1%
Direction:	Southbound		35	0		98.1%
Weather:	Sunny		34	0		98.1%
Posted Speed:	25 mph		33	0		98.1%
Begin time:	11:35 AM		32	2	**	98.1%
End time:	1:35 PM		31	1	•	94.4%
			30	3	***	92.6%
			29	3	***	87.0%
			28	3	***	81.5%
			27	7	*****	75.9%
			26	7	*****	63.0%
			25	5	****	50.0%
			24	5	****	40.7%
			23	5	****	31.5%
CRITICAL SPEED		29	22	3	***	22.2%
AVERAGE SPEED		25.48	21	6	****	16.7%
MEDIAN SPEED		25.5	20	3	***	5.6%
STANDARD DEVIATION	ON	3.56	19	0		0.0%
PACE RANGE		21 - 31	18	0		0.0%
PERCENTAGE IN PA	CE	87.0%	17	0		0.0%
TOTAL # OF AUTOS		54	16	0		0.0%

Santa Cruz County
Department of Public Works

LOCATIONE Zgrante Rd O. 1 mi N.	of Lamaica	Rd to 0.2 mile N. of Westwood Rd B)	A-M
ROAD NO DATE 6-19-08	DAY Th	BEGIN 11:35 MEND 01	:35 PM
POSTED SPEED 25 MPH	WEAT	HER LUNNY	
NUMBER OF LANES 2 GRAD	DE 21/.	CALIBRATED L	· · ·
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TOTAL	54	TOTAL	51

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PURPOSE:

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

LOCATION:

Empire Grade from the Santa Cruz City limits to the end at the Lockheed Facility. (Speed Data collected at the old airport).

PREVAILING SPEED DATA:

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

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	44 mph	46 mph
Pace Speed	36-46 mph	37-47 mph
Average Speed	40.13 mph	40.13 mph

ANALYSIS:

The prevailing 85th percentile speeds are 46 MPH and 44 MPH depending on the direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 45 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the 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 stopping sight distance, an abundance of various wildlife crossing the road, numerous grade changes and curves, and the majority of the road having pedestrian and bicycle traffic without bike lanes or sidewalks. It is recommended that the existing 40 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

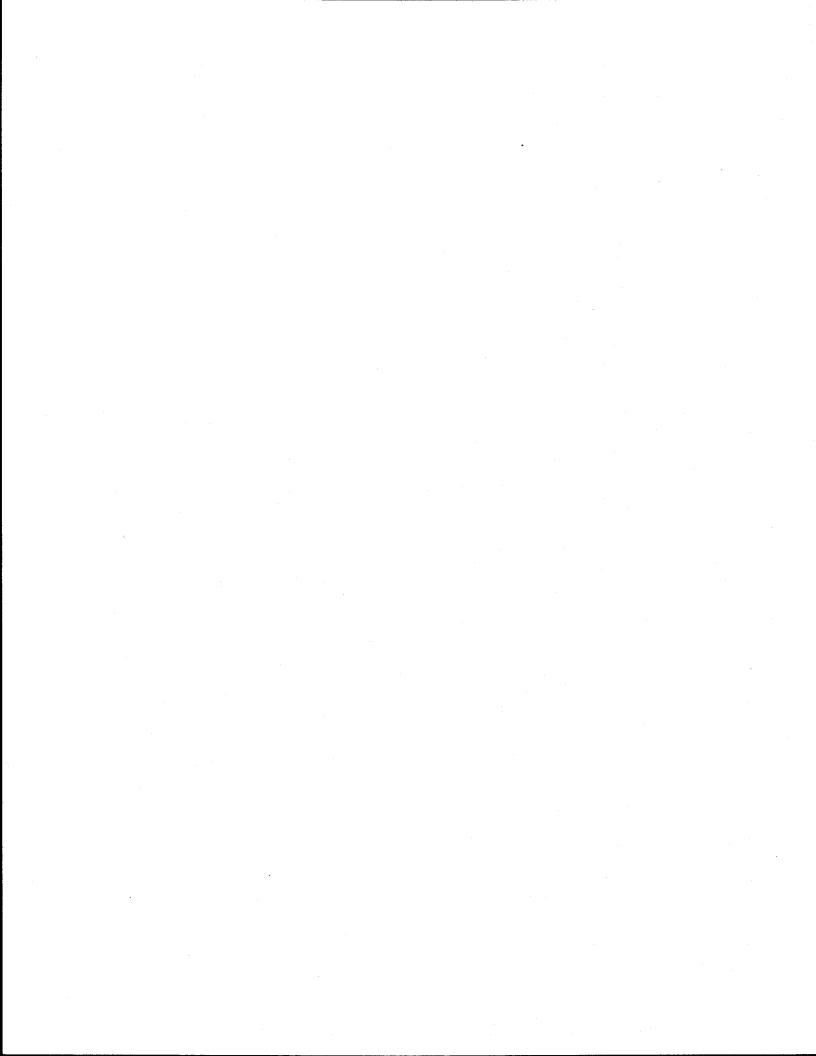
			<u>MPH</u>	# of Vehicl	les	<u>Percentage</u>
Route:	Empire Grade					
From:	Santa Cruz City Limits		48	1	•	100.0%
To:	Lockheed		47	2	**	98.2%
Direction:	Northbound		46	3	***	94.6%
Weather:	Sunny		45	2	**	89.3%
Posted Speed:	40 MPH		44	4	***	85.7%
Begin time:	2:15 PM		43	4	***	78.6%
End time:	3:21 PM		42	3	***	71.4%
			41	4	***	66.1%
			40	8	*****	58.9%
			39	6	*****	44.6%
			38	3	***	33.9%
			37	6	*****	28.6%
			36	4	***	17.9%
			35	2	**	10.7%
			34	3	***	7.1%
CRITICAL SPEE	D	44	33	1	♦	1.8%
AVERAGE SPE		40.13	32	0		0.0%
MEDIAN SPEED	oʻ	40.0	31	0		0.0%
STANDARD DEV	VIATION	3.76	30	0		0.0%
PACE RANGE		36 - 46	29	0		0.0%
PERCENTAGE I	-	78.6%	28	0		0.0%
TOTAL # OF AU	TOS	56	27	0		0.0%

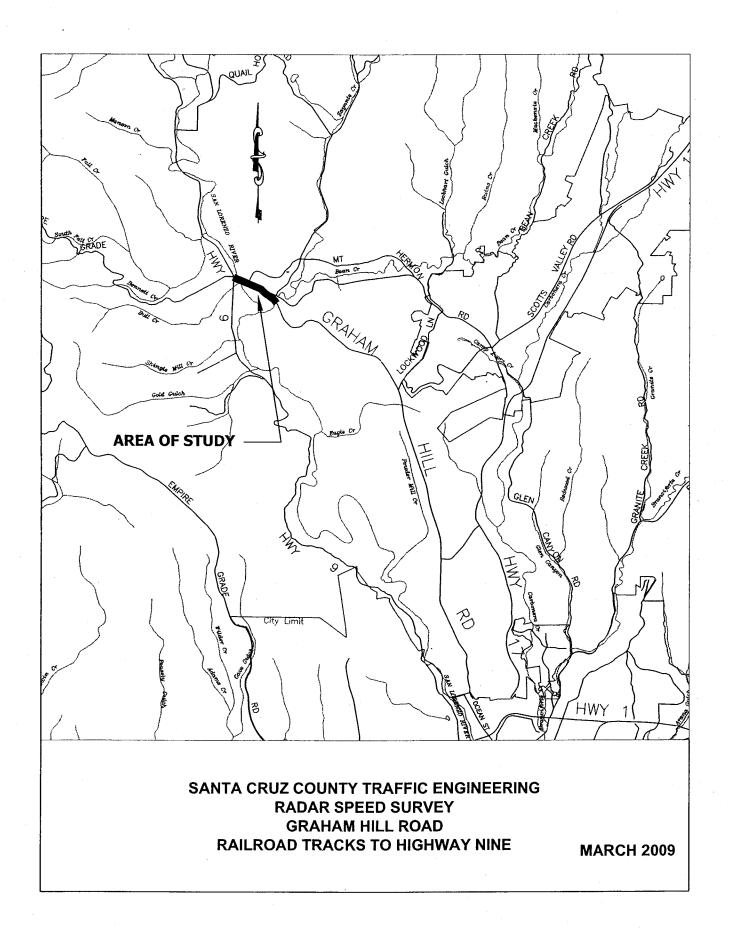
			<u> MPH</u>	# of Vehicl	<u>les</u>		Percentage
Route:	Empire Grade						
From:	Santa Cruz City Lim	its	50	1	•		100.0%
To:	Lockheed		49	Ó			98.4%
Direction:	Southbound		48	4	****		98.4%
Weather:	Sunny		47	2	**		91.8%
Posted Speed:	40 MPH		46	- 5	****		88.5%
Begin time:	2:15 PM		45	2	**		80.3%
End time:	3:21 PM		44	3	***		77.0%
			43	5	****		72.1%
•			42	4	****		63.9%
			41	3	***		57.4%
			40	6	*****		52.5%
			39	3	***		42.6%
			38	. 4	****		37.7%
			37	3	***		31.1%
			36	4	****		26.2%
CRITICAL SPEE		46	35	3	***		19.7%
AVERAGE SPEE		40.13	34	2	**		14.8%
MEDIAN SPEED		40.0	33	1	*		11.5%
STANDARD DEV	/IATION	5.23	32	3	***		9.8%
PACE RANGE		37 - 47	31	1	*		4.9%
PERCENTAGE I		62.3%	30	0			3.3%
TOTAL # OF AU	TOS	61	29	. 1	*		3.3%
			28	1	•		1.6%

RADAR SPEED SURVEY Santa Cruz County Department of Public Works

LOCATION EMPIRE CRANE	- (6	
ROAD NO DATE 6 23	B (COLD AIRPORT)	YJGL
	OB DAY MON BEGIN 2:15 END 3:	21
TO MYH	WEATHER SUNNY	
NOMBER OF LANES 2 GR	RADE FLAT CALIBRATED V	
	NUMBER OF VEHICLES	
DIRECTION	TOTAL DIRECTION	TOTAL,
MPH -> KI	OF EACH	OF EAC
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42 11	4 My- 3 MII	5
41	4 111	4
40 NL-11 39 NJ-1	8 144-1	4 3 6
38]	6	3
38	3 (11)	4
36	4	3
35 [] 34 [[]	2	4
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TOTAL	56 TOTAL 61	
	- IVIALI QI	

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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 Railroad Tracks to Highway Nine. (Speed Data collected at Conference 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	35 mph	36 mph
Pace Speed	26-36 mph	29-39 mph
Average Speed	31.36 mph	31.44 mph

ANALYSIS:

The prevailing 85th percentile speeds are 36 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 high volume of traffic, pedestrian and bicycle traffic, and an arterial route leading to popular commercial and tourist areas. 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.

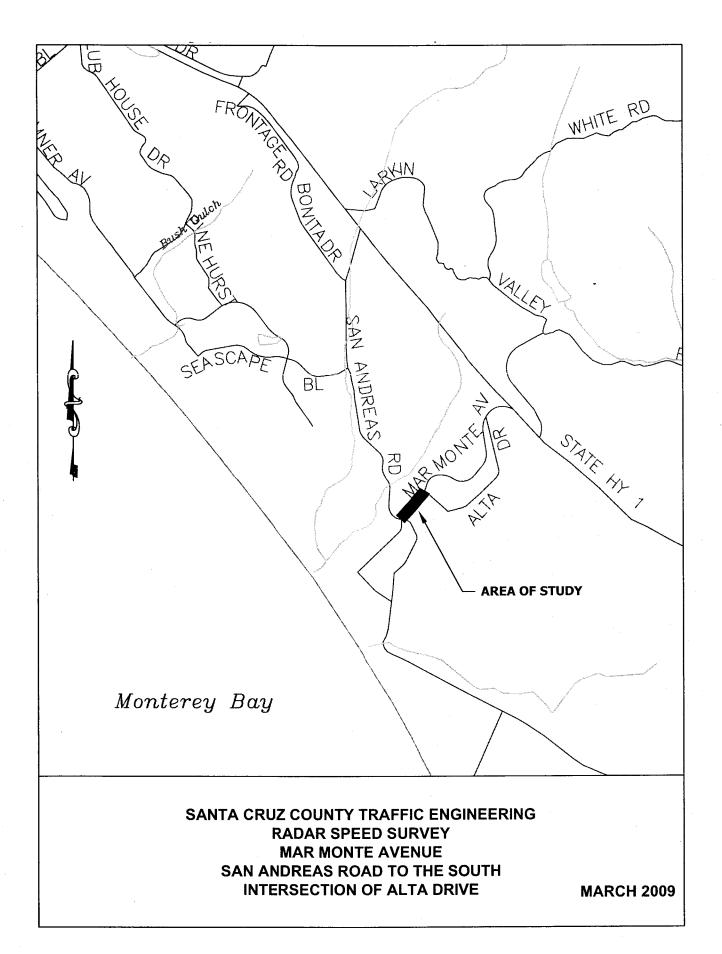
			<u> MPH</u>	# of Vehicl	<u>les</u>	<u>Percentage</u>
Route:	Graham Hill Rd					
From:	Railroad Tracks		38	3	***	100.0%
To:	Hwy 9		37	0		94.3%
Direction:	Northbound		36	4	***	94.3%
Weather:	Sunny		35	4	***	86.8%
Posted Speed:	25 MPH		34	3	***	79.2%
Begin time:	2:25 PM		33	8	*****	73.6%
End time:	2:45 AM		32	9	*****	58.5%
			31	3	***	41.5%
			30	1	♦	35.8%
			29	3	***	34.0%
			28	4	***	28.3%
			27	4	****	20.8%
			26	5	****	13.2%
			25	2	**	3.8%
			24	0		0.0%
CRITICAL SPEE	ĒD	35	23	0		0.0%
AVERAGE SPE		31.36	22	0		0.0%
MEDIAN SPEED	-	32.0	21	0		0.0%
STANDARD DE	VIATION	3.62	20	. 0		0.0%
PACE RANGE		26 - 36	19	0		0.0%
PERCENTAGE		83.0%	18	0		0.0%
TOTAL # OF AL	JTOS	53	17	0		0.0%

			<u> MPH</u>	# of Vehical	<u>les</u>	<u>Percentage</u>
Route:	Graham Hill Rd					
From:	Railroad Tracks		40	1	♦	100.0%
To:	Hwy 9		39	2	**	98.4%
Direction:	Southtbound		38	2	**	95.2%
Weather:	Sunny		37	3	***	91.9%
Posted Speed:	25 MPH		36	5	****	87.1%
Begin time:	2:25 PM		35	2	*	79.0%
End time:	2:45 AM		34	6	*****	75.8%
			33	3	***	66.1%
			32	6	*****	61.3%
			31	7	*****	51.6%
			30	3	***	40.3%
			29	9	*****	35.5%
			28	2	**	21.0%
			27	1	•	17.7%
			26	3	***	16.1%
CRITICAL SPEE	D	36	25	3	***	11.3%
AVERAGE SPE	ED	31.44	24	3	***	6.5%
MEDIAN SPEED)	31.0	23	1	•	1.6%
STANDARD DE	VIATION	4.25	22	0		0.0%
PACE RANGE		29 - 39	21	0		0.0%
PERCENTAGE	IN PACE	74.2%	20	0		0.0%
TOTAL # OF AU	ITOS	62	19	0		0.0%

Santa Cruz County Department of Public Works

LOCA	ATION Graher D NO	nhill Rd	Rail R	d Tracks	to Ho	uy 9 at Con	iterence BY	A-M
ROAI	ONO	DATE	5/25/08	DAY W	<u>cd</u> B	EGIN 2:25 P	'M END 2:	45 BM
POST	POSTED SPEED 25 MPH WEATHER SUNNY							
NUM	BER OF LANES	2	GRADE	31.		CALIBRAT	ED	
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	DIRECTION			TOTAL	DIRECTIO	ON .		TOTAL
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<u> </u>			TOTAL	62			TOTAL	53

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PURPOSE:

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

LOCATION:

Mar Monte Avenue from San Andreas Road to the south intersection of Alta Drive. (Speed Data collected at 310 Mar Monte Avenue)

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	25 mph	32 mph
Pace Speed	18-28 mph	24-34 mph
Average Speed	23.31 mph	28.38 mph

ANALYSIS:

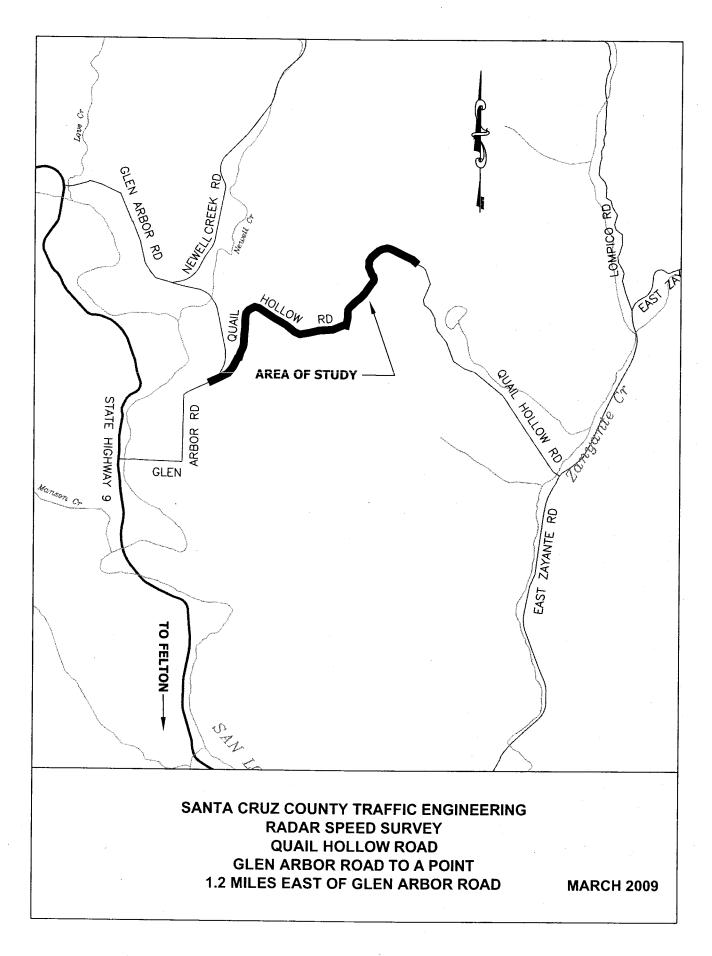
The prevailing 85th percentile speeds are 32 MPH and 25 MPH depending on the direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 30 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering 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, children and other pedestrians along with bicycle traffic in the roadway without sidewalks or paved shoulders. It is recommended that the existing 25 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

			<u> MPH</u>	# of Vehi	cles	<u>Percentage</u>
Route:	Mar Monte Ave					
Location:	South of Alta Dr		35	2	**	100.0%
Direction:	Southbound		34	1	•	96.2%
Weather:	Sunny		33	4	****	94.3%
Posted Speed:	25		32	4	***	86.8%
Begin time:	2:35 PM		31	2	**	79.2%
End time:	3:35 PM		30	4	****	75.5%
			29	9	******	67.9%
			28	3	***	50.9%
			27	8	*****	45.3%
			26	3	***	30.2%
			25	9	******	24.5%
			24	2	*	7.5%
			23	2	**	3.8%
			22	0		0.0%
			21	0		0.0%
CRITICAL SPEED		32	20	0		0.0%
AVERAGE SPEED		28.38	19	0		0.0%
MEDIAN SPEED		28.0	18	0		0.0%
STANDARD DEVIATI	ON	3.15	17	0		0.0%
PACE RANGE		24 - 34	16	0		0.0%
PERCENTAGE IN PA	CE	90.6%	15	0		0.0%
TOTAL # OF AUTOS		53	14	0		0.0%

			<u> MPH</u>	# of Vehi	cles	<u>Percentage</u>
Route:	Mar Monte Ave					
Location:	South of Alta Dr		29	1	•	100.0%
Direction:	Northbound		28	3	***	98.2%
Weather:	Sunny		27	2	**	92.7%
Posted Speed:	25		26	2	**	89.1%
Begin time:	2:35 PM		25	5	****	85.5%
End time:	3:35 PM		24	9	*****	76.4%
			23	13	*********	60.0%
			22	8	*****	36.4%
			21	7	*****	21.8%
			20	5	****	9.1%
			19	0		0.0%
			18	0		0.0%
			17	0		0.0%
			16	0		0.0%
			15	0		0.0%
CRITICAL SPEED		25	14	0		0.0%
AVERAGE SPEED		23.31	13	0		0.0%
MEDIAN SPEED		23.0	12	0		0.0%
STANDARD DEVIATI	ON	2.22	11	0		0.0%
PACE RANGE		18 - 28	10	0		0.0%
PERCENTAGE IN PA	CE	92.7%	9	0		0.0%
TOTAL # OF AUTOS		55	8	0		0.0%

Santa Cruz County Department of Public Works

							······································			
LOCA	ATION May N	non te	Avo.	South 1	of Alta	Driv	e at 310	Marmo	nte Ave BY	A-M
ROAL	ROAD NO DATE 6/12/08 DAY Thursday BEGIN 2:35 PM END 3:25 PM									
POSTED SPEED 25 MPH WEATHER SUNNY										
NUM	BER OF LAN	ES .	2	GRADE	<u> 37.</u>	_	CA	LIBRATE)	
				NU	MBER OF V	/EHICLI	ES			
	DIRECTION				TOTAL	DIREC	TION			TOTAL
MPH		\rightarrow	S		OF EACH	1	1			OF EACH SPEED
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20-			<u> </u>			<i>M</i> 1	 	- 		
				TOTAL	53				TOTAL	55



PURPOSE:

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

LOCATION:

Quail Hollow Road from Glen Arbor Road to a point 1.2 miles east of Glen Arbor Road. (Speed Data collected south of Marion Avenue).

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	32 mph	34 mph
Pace Speed	24-34 mph	24-34 mph
Average Speed	29.51 mph	30.63 mph

ANALYSIS:

The prevailing 85th percentile speeds are 34 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 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, residential district with numerous driveways and private roads, and shoulder conditions with pedestrians in the roadway without sidewalks. It is recommended that the existing 30 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

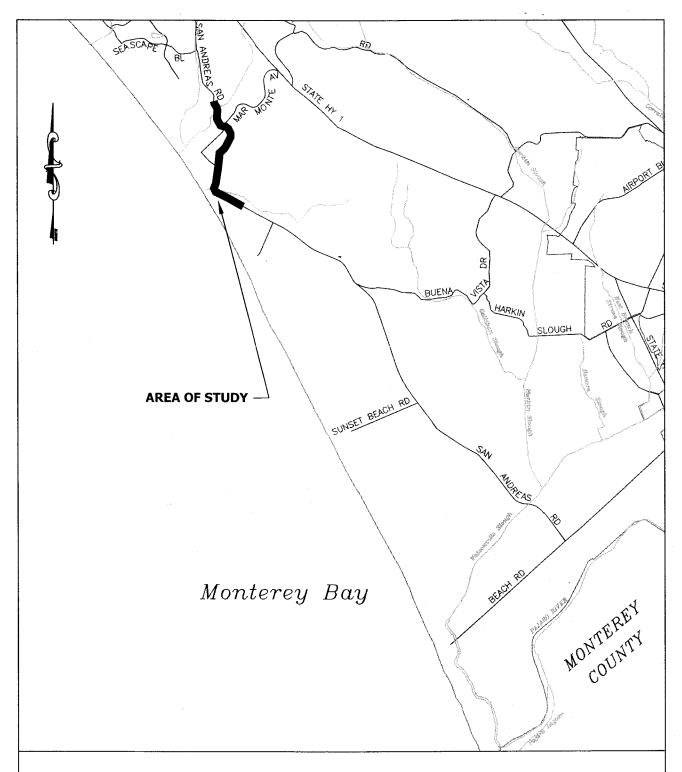
			<u> MPH</u>	# of Vehic	<u>cles</u>	<u>Percentage</u>
Route:	Quail Hollow Rd					
From:	Glen Arbor Rd		35	1	• ,	100.0%
To:	1.2 mi E of Glen Arbor Rd		34	2	* *	98.0%
Direction:	Northbound		33	3	***	94.1%
Weather:	Sunny		32	2	•	88.2%
Posted Speed:	30 mph		31	9	******	84.3%
Begin time:	10:25 AM		30	6	****	66.7%
End time:	11:25 AM		29	13	******	54.9%
			28	6	****	29.4%
			27	3	***	17.6%
			26	4	***	11.8%
			25	2	**	3.9%
			24	0		0.0%
			23	0		0.0%
			22	0		0.0%
			21	0		0.0%
CRITICAL SPEED		32	20	0		0.0%
AVERAGE SPEED		29.51	19	0		0.0%
MEDIAN SPEED		29.0	18	0		0.0%
STANDARD DEVIATION	ON	2.31	17	0		0.0%
PACE RANGE		24 - 34	16	0		0.0%
PERCENTAGE IN PAG	CE	94.1%	15	0		0.0%
TOTAL # OF AUTOS		51	14	0		0.0%

			<u>MPH</u>	# of Vehic	<u>cles</u>	<u>Percentage</u>
Route:	Quail Hollow Rd					
From:	Glen Arbor Rd		35	4	***	100.0%
To:	1.2 mi E of Glen Arbor Rd		34	3	***	92.9%
Direction:	Southbound		33	10	******	87.5%
Weather:	Sunny		32	9	******	69.6%
Posted Speed:	30 mph		31	4	***	53.6%
Begin time:	10:25 AM		30	9	******	46.4%
End time:	11:25 AM		29	4	***	30.4%
			28	5	****	23.2%
			27	3	***	14.3%
			26	2	**	8.9%
			25	1	♦	5.4%
			24	1	♦	3.6%
			23	1	♦	1.8%
			22	0		0.0%
			21	0		0.0%
CRITICAL SPEED		34	20	0		0.0%
AVERAGE SPEED		30.63	19	0		0.0%
MEDIAN SPEED		31.0	18	0		0.0%
STANDARD DEVIATION	ON	2.86	17	. 0		0.0%
PACE RANGE		24 - 34	16	0		0.0%
PERCENTAGE IN PA	CE	85.7%	15	0		0.0%
TOTAL # OF AUTOS		56	14	0		0.0%

Santa Cruz County
Department of Public Works

					A., , ,	
LOC	ATION Quail Hot	low Rd from Glen Arb	or to a loix	(5.65 Marion B)	Y A-M	
ROA	D NO	DATE 6/23/08	DAY M	NOW BEGIN 10:25AM END (1:	25 AM	
POS	TED SPEED	30 MPH	WEATI	HER Clear		
NUM	BER OF LANES	2 GRADE	E 31	CALIBRATED -	_	
	NUMBER OF VEHICLES					
	DIRECTION		TOTAL	DIRECTION	TOTAL	
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MPH			SPEED		SPEED	
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20-						
		TOTAL	56	TOTAL	51	

•



SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
SAN ANDREAS ROAD
0.25 MILES NORTHWESTERLY OF MAR MONTE-PLAYA
BOULEVARD TO 0.34 MILES SOUTHEASTERLY
OF SPRR UNDERPASS AT MANRESA BEACH

MARCH 2009

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 0.25 miles northwesterly of Mar Monte Avenue-Playa Boulevard to 0.35 miles southeasterly of SPPR underpass at Manresa Beach. (Speed Data collected at # 1587 San Andreas Road).

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	38 mph	32 mph
Pace Speed	30-40 mph	24-34 mph
Average Speed	35.29 mph	29.00 mph

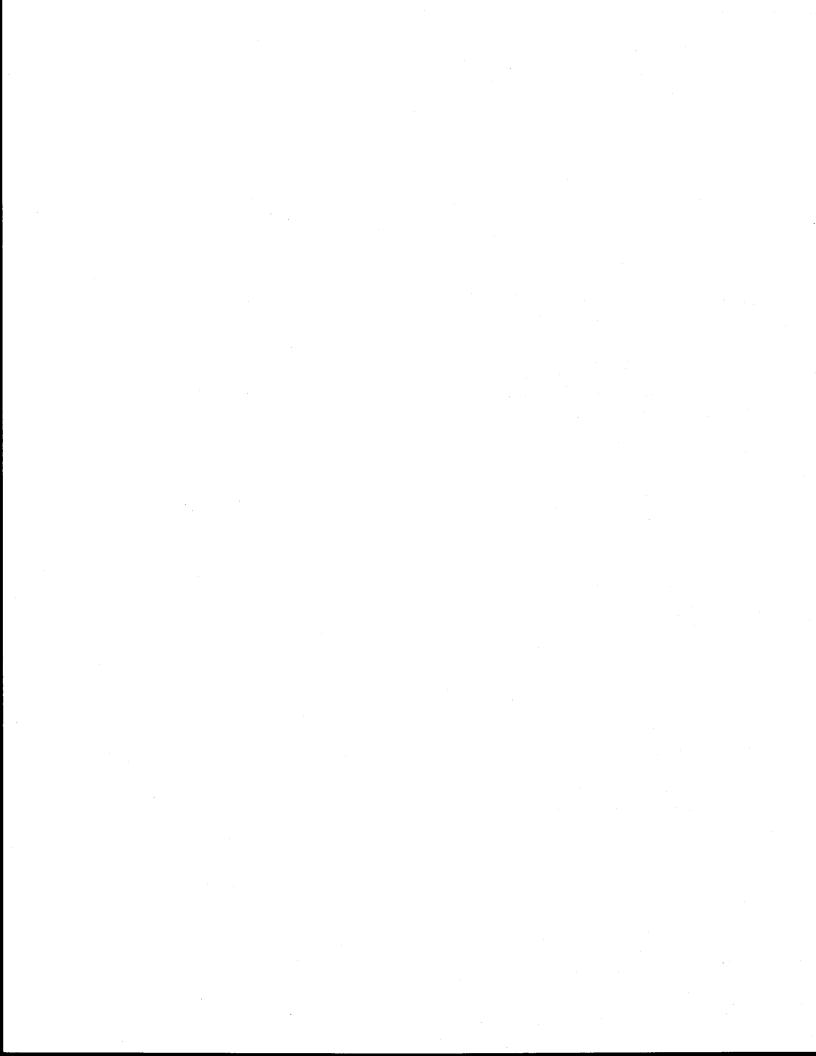
ANALYSIS:

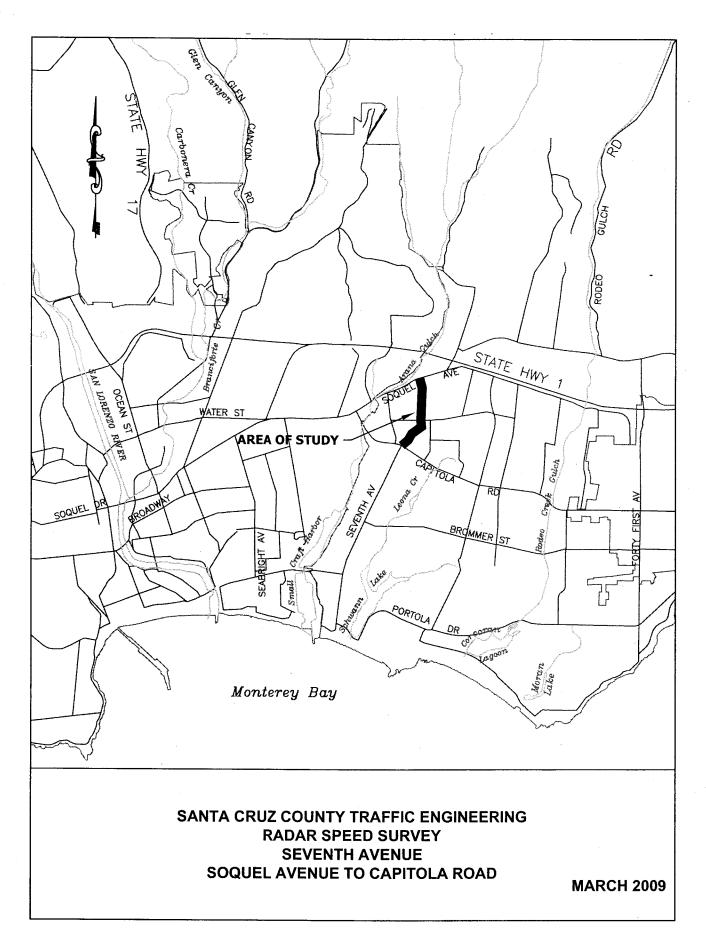
The prevailing 85th percentile speeds are 38 MPH and 32 MPH depending on the direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 35 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering 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, recent accident record, a tourist area with main access to beaches and parks, and shoulder conditions with pedestrians in the roadway without sidewalks. It is recommended that the existing 30 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

			<u>MPH</u>	# of Vehicle	<u>es</u>	<u>Percentage</u>
Route:	San Andreas Rd					
From:	.25 mi northwesterly of		45	1	•	100.0%
	Mar Monte Ave- Playa Blvd		44	0		98.2%
To:	.35 mi southeasterly of SPRR		43	1	♦	98.2%
	underpass at Manressa Beach		42	0		96.4%
Direction:	Northbound		41	1	•	96.4%
Weather:	Sunny		40	2	**	94.5%
Posted Speed:	30 MPH		39	2	**	90.9%
Begin time:	2:15 PM		38	4	***	87.3%
End time:	2:45 PM		37	10	*****	80.0%
			36	4	***	61.8%
			35	6	****	54.5%
			34	7	****	43.6%
			33	5	****	30.9%
			32	7	****	21.8%
			31	1	•	9.1%
CRITICAL SPEE		38	30	4	***	7.3%
AVERAGE SPE		35.29	29	0 .		0.0%
MEDIAN SPEEC		35.0	28	0		0.0%
STANDARD DE	VIATION	3.23	27	0		0.0%
PACE RANGE		30 - 40	26	0		0.0%
PERCENTAGE		90.9%	25	0		0.0%
TOTAL # OF AU	ITOS	55	24	0		0.0%

			<u>MPH</u>	# of Vehicle	<u>es</u>	<u>Percentage</u>
Route:	San Andreas Rd					
From:	.25 mi northweste	rly of	35	1	•	100.0%
	Mar Monte Ave- Pl	aya Blv	34	4	***	98.4%
To:	.35 mi southeaste	rly of SPRR	33	2	**	91.8%
	underpass at Man	ressa Beach	32	5	***	88.5%
Direction:	Southbound		31	10	******	80.3%
Weather:	Sunny		30	4	***	63.9%
Posted Speed:	30 MPH		29	4	***	57.4%
Begin time:	2:15 PM		28	13	*****	50.8%
End time:	2:45 PM		27	7	****	29.5%
			26	2	**	18.0%
			25	7	****	14.8%
			24	0		3.3%
			23	2	♦♦	3.3%
			22	0		0.0%
			21	0		0.0%
CRITICAL SPEE	-	32	20	0		0.0%
AVERAGE SPE		29.00	19	0		0.0%
MEDIAN SPEED		28.0	18	0		0.0%
STANDARD DE	VIATION	2.89	17	0		0.0%
PACE RANGE		24 - 34	16	0		0.0%
PERCENTAGE		88.5%	15	0		0.0%
TOTAL # OF AU	ITOS	61	14	0		0.0%

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LOCA	ATION San Andreas Rd, 25 mi north	underpass	At Manress Beach at 1587 B	Y.A_M
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	TOTAL	6	TOTAL	55





PURPOSE:

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

LOCATION:

Seventh Avenue from Capitola Road to Soquel Avenue. (Speed Data collected north of Rodriguez 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	31 mph	31 mph
Pace Speed	23-33 mph	23-33 mph
Average Speed	27.31 mph	27.63 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 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 25 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

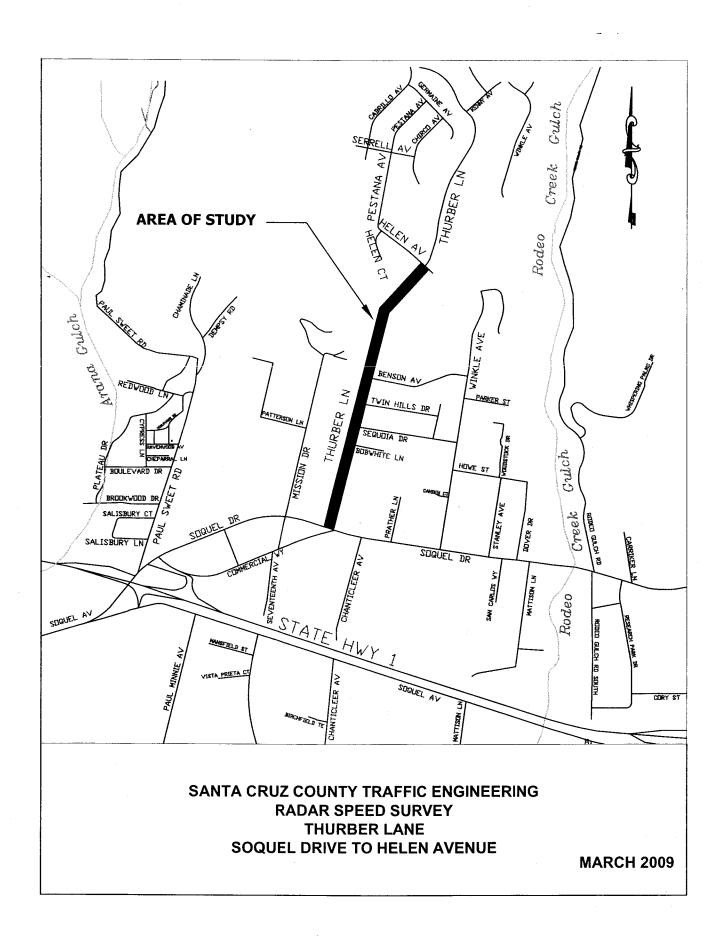
			<u>MPH</u>	# of Vehicles	<u>s</u>	<u>Percentage</u>
Route:	Seventh Ave					
From:	Soquel Ave		36	1	♦	100.0%
To:	Capitola Rd		35	0		98.9%
Direction:	Northbound		34	1	•	98.9%
Weather:	Sunny		33	2	**	97.7%
Posted Speed:	25 MPH		32	7	****	95.5%
Begin time:	2:10 PM		31	7	****	87.5%
End time:	2:40 PM		30	7	****	79.5%
			29	5	****	71.6%
			28	5	***	65.9%
			27	14	***********	60.2%
			26	10	*****	44.3%
			26	9	*****	33.0%
			24	6	****	22.7%
			23	8	*****	15.9%
			22	5	****	6.8%
CRITICAL SPEE		31	21	1	◆	1.1%
AVERAGE SPE		27.31	20	0		0.0%
MEDIAN SPEED		27.0	19	0		0.0%
STANDARD DE	VIATION	3.27	18	0		0.0%
PACE RANGE		23 - 33	17	0		0.0%
PERCENTAGE		88.6%	16	0		0.0%
TOTAL # OF AU	ITOS	88	15	0		0.0%

			<u>MPH</u>	# of Vehicl	<u>es</u>	<u>Percentage</u>
Route:	Seventh Ave					
From:	Soquel Ave		35	1	•	100.0%
To:	Capitola Rd		34	2	♦♦	98.2%
Direction:	Southbound		33	1	•	94.6%
Weather:	Sunny		32	2	**	92.9%
Posted Speed:	25 MPH		31	6	****	89.3%
Begin time:	2:10 PM		30	6	****	78.6%
End time:	2:40 PM		29	5	****	67.9%
			28	4	***	58.9%
			27	4	***	51.8%
			26	8	*****	44.6%
			25	8	*****	30.4%
			24	4	***	16.1%
			23	3	***	8.9%
			22	1	•	3.6%
			21	1	•	1.8%
CRITICAL SPE	ĒD	31	20	0		0.0%
AVERAGE SPE		27.63	19	0		0.0%
MEDIAN SPEED		27.0	18	0		0.0%
STANDARD DE	VIATION	3.26	17	0		0.0%
PACE RANGE		23 - 33	16	0		0.0%
PERCENTAGE	IN PACE	89.3%	15	0		0.0%
TOTAL # OF AL	JTOS	56	14	0		0.0%

67

LOCA	TIONSeventh	Avp. (So	guel Ave -	to Capital	a Rd) N	J. of Rody	quez St. B'	A_M
ROAI	ATION <u>Seventh</u> DNO	DATE	6/10/08	DAY Tu	وراير	BEGIN 2	:10 PMEND 2	:40 PM
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			TOTAL	88			TOTAL	36





PURPOSE:

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

LOCATION:

Thurber Lane from Soquel Drive to Helen Avenue. (Speed Data collected north of Twin Hills Drive)

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	37 mph	38 mph
Pace Speed	30-40 mph	29-39 mph
Average Speed	33.74 mph	34.68 mph

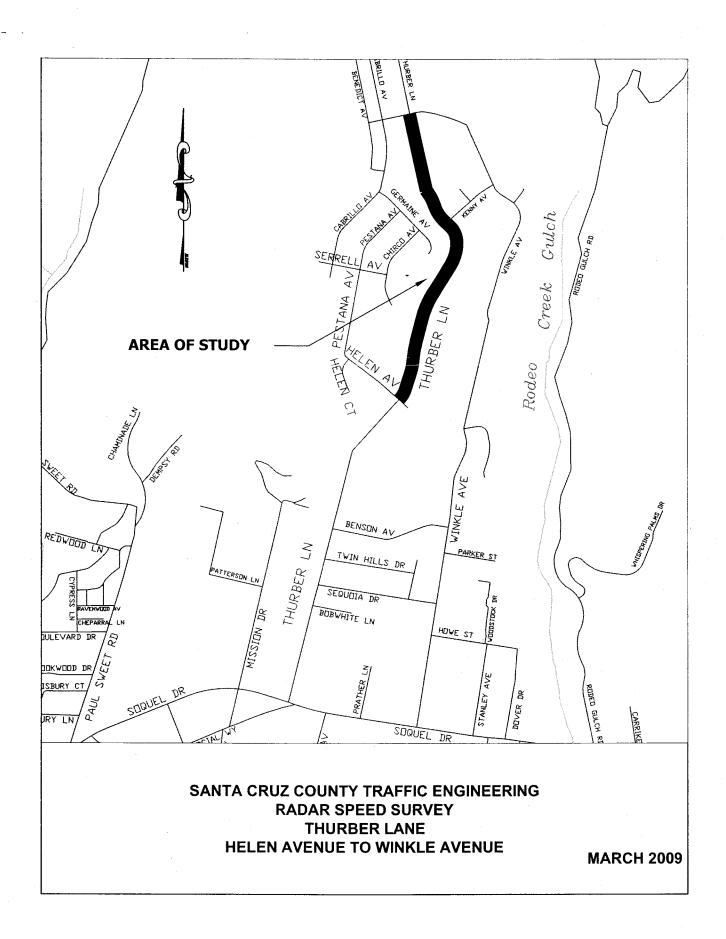
ANALYSIS:

The prevailing 85th percentile speeds are 38 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 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 residential neighborhood with significant pedestrian and bicycle traffic with an adjacent fire station and a nearby park and elementary school. It is recommended that the existing 30 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

			<u>MPH</u>	# of Vehi	<u>cles</u>	<u>Percentage</u>
Route:	Thurber Ln					
From:	Soquel Dr		42	. 1	•	100.0%
To:	Helen Ave		41	0		98.1%
Direction:	Northbound		40	2	* *	98.1%
Weather:	Sunny		39	2	**	94.4%
Posted Speed:	30		38	3	***	90.7%
Begin time:	2:00 PM		37	2	**	85.2%
End time:	2:25 PM		36	5	****	81.5%
			35	4	***	72.2%
			34	7	*****	64.8%
			33	6	*****	51.9%
			32	10	******	40.7%
			31	5	****	22.2%
			30	3	***	13.0%
			29	1	•	7.4%
			28	3	***	5.6%
CRITICAL SPEED		37	27	0		0.0%
AVERAGE SPEED		33.74	26	0		0.0%
MEDIAN SPEED		33.0	25	0		0.0%
STANDARD DEVIATION	ON	3.20	24	0		0.0%
PACE RANGE		30 - 40	23	0		0.0%
PERCENTAGE IN PA	CE	87.0%	22	0		0.0%
TOTAL # OF AUTOS		54	21	0		0.0%

			<u> MPH</u>	# of Vehi	<u>cles</u>	<u>Percentage</u>
Route:	Thurber Ln					
From:	Soquel Dr		48	1	•	100.0%
To:	Helen Ave		47	0		98.4%
Direction:	Southbound		46	0		98.4%
Weather:	Sunny		45	1	•	98.4%
Posted Speed:	30		44	1	♦ .	96.8%
Begin time:	2:00 PM		43	. 0		95.2%
End time:	2:25 PM		42	1	•	95.2%
			41	1	•	93.5%
			40	1	♦	91.9%
			39	1	•	90.3%
			38	4	****	88.7%
			37	5	****	82.3%
			36	7	****** ,	74.2%
			35	9	******	62.9%
			34	3	***	48.4%
CRITICAL SPEED		38	33	8	*****	43.5%
AVERAGE SPEED		34.68	32	6	*****	30.6%
MEDIAN SPEED		35.0	31	5	****	21.0%
STANDARD DEVIATI	ION	3.99	30	3	***	12.9%
PACE RANGE		29 - 39	29	4	****	8.1%
PERCENTAGE IN PA		87.1%	28	1	•	1.6%
TOTAL # OF AUTOS		62	27	0		0.0%

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PURPOSE:

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

LOCATION:

Thurber Lane from Helen Avenue to Winkle Avenue. (Speed Data collected north of Helen Avenue)

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	36 mph	38 mph
Pace Speed	28-38 mph	29-39 mph
Average Speed	32.63 mph	33.46 mph

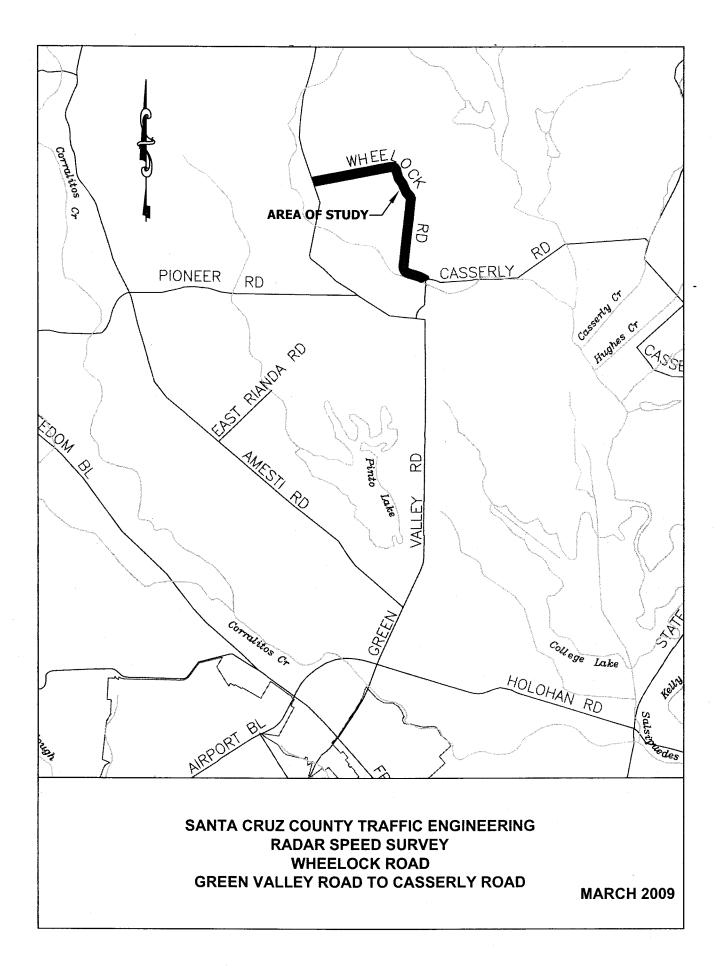
ANALYSIS:

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. 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, safe stopping sight distance, extreme road profile conditions, wildlife area, and children walking and bicycling to school. It is recommended that the existing 30 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

			<u> MPH</u>	# of Vehi	<u>cles</u>	<u>Percentage</u>
Route:	Thurber Ln					
From:	Helen Ave		44	1	•	100.0%
To:	Winkle Ave		43	0		98.1%
Direction:	Northbound		42	1	•	98.1%
Weather:	Sunny		41	0		96.3%
Posted Speed:	30		40	0		96.3%
Begin time:	2:40 PM		39	0		96.3%
End time:	3:00 PM		38	1	•	96.3%
			37	3	***	94.4%
			36	6	*****	88.9%
			35	4	****	77.8%
			34	3	***	70.4%
			33	7	*****	64.8%
			32	6	*****	51.9%
			31	4	***	40.7%
			30	7	*****	33.3%
CRITICAL SPEED		36	29	6	*****	20.4%
AVERAGE SPEED		32.63	28	, 3	***	9.3%
MEDIAN SPEED		32.0	27	2	**	3.7%
STANDARD DEVIATION	ON	3.55	26	0		0.0%
PACE RANGE		28 - 38	25	0		0.0%
PERCENTAGE IN PA	CE	90.7%	24	0		0.0%
TOTAL # OF AUTOS		54	23	0		0.0%

			<u>MPH</u>	# of Vehi	cles	<u>Percentage</u>
Route:	Thurber Ln					
From:	Helen Ave		41	2	**	100.0%
To:	Winkle Ave		40	3	***	96.8%
Direction:	Southbound		39	3	***	92.1%
Weather:	Sunny		38	3	***	87.3%
Posted Speed:	30		37	3	***	82.5%
Begin time:	2:40 PM		36	4	****	77.8%
End time:	3:00 PM		35	4	****	71.4%
			34	8	*****	65.1%
			33	6	*****	52.4%
			32	7	*****	42.9%
			31	3	***	31.7%
			30	7	*****	27.0%
			29	6	*****	15.9%
			28	1	•	6.3%
			27	3	***	4.8%
CRITICAL SPEED		38	26	0		0.0%
AVERAGE SPEED		33.46	25	0		0.0%
MEDIAN SPEED		33.0	24	. 0		0.0%
STANDARD DEVIATI	ON	3.73	23	0		0.0%
PACE RANGE		29 - 39	22	0		0.0%
PERCENTAGE IN PA	- - -	81.0%	21	0		0.0%
TOTAL # OF AUTOS		63	20	0		0.0%

LOC/	ATION Thurben Lin from Helen	n Ave to	, winkle Ave (N. at Helen Ave) BY	A-M
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	TOTAL	51	TOTAL	63



PURPOSE:

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

LOCATION:

Wheelock Road from Casserly Road to Green Valley Road. (Speed Data collected north of Casserly 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	27-37 mph	29-39 mph
Average Speed	32.81 mph	33.55 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 numerous driveways, a route to and from Monte Vista School 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.

			<u>MPH</u>	# of Vehicle	es	<u>Percentage</u>
Route:	Wheelock Road					
From:	Casserly Road		43	2	**	100.0%
To:	Green Valley Road		42	0		96.9%
Direction:	Northbound		41	3	***	96.9%
Weather:	Sunny		40	0		92.2%
Posted Speed:	35 MPH		39	4	****	92.2%
Begin time:	2:27PM		38	1	•	85.9%
End time:	3:45 PM		37	3	***	84.4%
		•	36	6	*****	79.7%
			35	6	*****	70.3%
			34	3	***	60.9%
			33	2	**	56.3%
			32	2	**	53.1%
			31	9	******	50.0%
			30	7	*****	35.9%
			29	6	*****	25.0%
CRITICAL SPEE	D	38	28	3	***	15.6%
AVERAGE SPE	ED	32.81	27	4	***	10.9%
MEDIAN SPEED) [31.5	26	1	•	4.7%
STANDARD DE	VIATION	4.61	25	1	•	3.1%
PACE RANGE		27 - 37	24	0		1.6%
PERCENTAGE	IN PACE	75.0%	23	0		1.6%
TOTAL # OF AU	TOS	64	22	1	•	1.6%

			<u>MPH</u>	# of Vehicle	<u>es</u>	<u>Percentage</u>
Route:	Wheelock Road					
From:	Casserly Road		44	1	•	100.0%
To:	Green Valley Road		43	0		98.0%
Direction:	Southbound		42	0		98.0%
Weather:	Sunny		41	3	***	98.0%
Posted Speed:	35 MPH		40	0		92.2%
Begin time:	2:27PM		39	3	***	92.2%
End time:	3:45 PM		38	5	****	86.3%
	•		37	0		76.5%
			36	6	*****	76.5%
			35	5	****	64.7%
			34	1	♦	54.9%
			33	7	*****	52.9%
			32	2	**	39.2%
			31	3	***	35.3%
			30	5	****	29.4%
CRITICAL SPEE	D	38	29	5	****	19.6%
AVERAGE SPE	ED	33.55	28	0		9.8%
MEDIAN SPEED)	33.0	27	2	**	9.8%
STANDARD DE	VIATION	4.50	26	1	• .	5.9%
PACE RANGE		29 - 39	25	1	•	3.9%
PERCENTAGE	IN PACE	76.5%	24	1	•	2.0%
TOTAL # OF AL	JTOS	51	23	0		0.0%

LOC	ATION WHEFLOCK NORTH	OF CASS	rmy) B	Y_K_
ROA	DNO DATE 6-17-0	B DAY TU	₩ BEGIN 2.2 7 END 3	45
	TED SPEED 35 MPH			
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