



City of Salinas

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2024 Engineering and Traffic Survey For Speed Limits Technical Report

PREPARED BY:

City of Salinas

Public Works Department

Traffic and Transportation Division

200 Lincoln Avenue

Salinas, CA 93901



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CERTIFICATION

I, Jaime O. Rodriguez, do hereby certify that this Engineering and Traffic Survey for the City of Salinas was performed under my supervision. I certify that I am experienced in performing surveys of this type and duly registered in the State of California as a Traffic Engineer.



Jaime O. Rodriguez, T.E.
Traffic Engineer

INTRODUCTION:

The 2024 Engineering and Traffic (E&T) Surveys in the City of Salinas fulfills California Vehicle Code (CVC) Sections 22357 and 22358, which require local agencies to follow certain procedures established by the State of California. The E&T Surveys are intended to serve as the basis for establishing and enforcing the speed limits for specific streets in the City. The work herein by the City Traffic and Transportation Engineering Division staff, in accordance with the California CVC Section 40802, reviews the established speed limit sections to determine whether changes in existing conditions have occurred which may require adjusting the posted speed limit.

Engineering and Traffic Surveys for speed limits are regularly conducted once every five (5) years by governing municipalities for the purpose of complying with Section 40802 of the CVC and the national Uniform Vehicle Code. E&T Surveys may be extended to every seven (7) years if the arresting officer has completed device training and the device has been recently calibrated. E&T Surveys may be extended every ten (10) years if a registered engineer evaluates the section of the highway and determines that no significant changes in roadway or surrounding land uses have occurred as specified in the CVC. An E&T Survey should be conducted on new roadways or where traffic conditions have changed significantly.

The California Manual on Uniform Traffic Control Devices (CA-MUTCD), as required under CVC 21400, defines standards for posting speed limits that rely upon collecting speed data in the field to determine the 85th percentile speed, which is subsequently rounded upward or downward to the nearest 5 mile per hour increment. The CA-MUTCD allows for options to further reduce the speed limit. Additionally, local authorities are allowed to further reduce speed limits to consider the safety of vulnerable pedestrians under Assembly Bill No. 43. That methodology was applied to two (2) of the three (3) segments. **Table 1: Engineering and Traffic Survey Summary** summarizes the findings and recommendations for speed limits on those segments. The results of the E&T Surveys will be valid until 2029, see Table 1 for details, unless extended through additional criteria.

METHODOLOGY:

On January 1, 2012, CVC 21400(b) became effective requiring the California, Department of Transportation (Caltrans) to revise the CA-MUTCD so that speed limits are based on field-collected speed data. A spot speed survey that typically consists of measuring vehicle speeds with an electronic device, most commonly a radar speed detector. Traffic traveling at free-flow speeds in each direction for a two-way street is collected and compiled to create a data set. The most significant data point collected is the 85th percentile speed, which is the speed at or below which 85 percent of motor vehicles travel. The 85th percentile speed is the industry standard data point which typically represents one standard deviation above the average speed and establishes the upper limit of what is considered reasonable and prudent. The reason that speed limit areas are established and posted is to guard reasonable drivers from the unreasonable behavior of a reckless or otherwise dangerous drivers. As with other laws, speed limits are established based on the consensus of the majority of those who drive a section of roadway as to what speed is reasonable and safe.

As specified in the California MUTCD Section 2B.13, the posted speed limit “shall be established at the nearest 5 mph increment of the 85th percentile speed of free-flowing traffic.” Additionally, the MUTCD allows the posted speed limit to be lowered by no more than 5 mph from a rounded speed, using one of two options that depend on whether the 85th percentile speed has been rounded down or up. The options may be applied as follows:

1. MUTCD Section 2B.13 states, “The posted speed may be reduced by 5 mph from the nearest 5-mph increment of the 85th percentile speed, in compliance with CVC Sections 627 and 22358.5.” The cited CVC Section 627 defines an E&T survey that is required to consider prevailing speeds, accident records, and conditions not readily apparent to the driver, and optionally consider residential density as well as pedestrian and bicycle safety. According to the MUTCD, this option requires documentation of an E&T Survey that “shall document in writing the conditions and justification for the lower speed limit and be approved by a registered Civil or Traffic Engineer.” The basis for a speed limit that is more than 5 mph lower than the 85th percentile speed is something other than prevailing speeds. In regard to conditions not readily apparent to the driver, CVC 22358 states that “physical conditions such as width, curvature, grade and surface conditions, or any other condition readily apparent to a driver, in the absence of other factors, would not require special downward speed zoning.”

2. MUTCD Section 2B.13 12a also states “For cases in which the nearest 5-mph increment of the 85th percentile speed would require a rounding up, then the speed limit may be rounded down to the nearest 5-mph increment below the 85th percentile speed, if no further reduction is used.” An Option 2 round-down, which became available when CVC Section 21400(b) went into effect January 1, 2012, requires no E&T Survey to post the speed limit sign. The E&T Survey is required nevertheless, however, to allow radar or similar devices to be used for enforcement.

Neither the Vehicle Code nor the MUTCD provide much specific guidance regarding accident data or pedestrian or bicycle safety. In contrast, CVC 627(c)(1) provides specific guidance on residential density. Many residential neighborhoods in Salinas meet the density threshold of 16 separate dwelling houses or business structures per quarter mile. The statute does not apply to roads within a business district.

While the California MUTCD allows two options for lowering the posted speed, it has no provision for raising the speed limit above the nearest 5-mph increment of the 85th percentile speed.

SUMMARY OF RECOMMENDATIONS:

The results of the Engineering and Traffic Survey for three (3) roadway sections are listed in **Table 1: Engineering and Traffic Survey Summary:**

Engineering and Traffic Surveys Expiring 2029:

Unchanged

69) Sherwood Drive between East Market Street and East Bernal Drive – This segment of Sherwood Drive is classified as a major arterial in the City of Salinas General Plan. The surrounding land use includes agricultural areas, backing residential homes, general commercial areas, and schools. Speed data collected August 12, 2024 revealed the 85th percentile speed of 48 mph. The 10 mph pace ranges from 41 mph to 50 mph and suggests the 85th percentile is within this range. Based on the surrounding land use, the 10 mph pace range, the prevailing speeds rounded up and reduced by 5 mph per MUTCD option 2, and following the implementation of Assembly Bill No. 43, authorizing local authority to further reduce speed limits, the existing posted speed limit of 40 mph should be retained.

87) Skyway Boulevard between Airport Boulevard and East Alisal Street – This segment of Skyway Boulevard is classified as a minor arterial in the City of Salinas General Plan. The surrounding land use includes a private golf course and a municipal airport. Speed data collected August 14, 2024 revealed the 85th percentile speed of 42 mph. The 10 mph pace ranges from 36 mph to 45 mph and suggests the 85th percentile is within this range. Based on the surrounding land use, the 10 mph pace range, and the prevailing speeds rounded down and reduced by 5 mph per MUTCD option 1, the existing posted speed limit of 35 mph should be retained.

88) Work Street between East Alisal Street and South Sanborn Road - This segment of Work Street is classified as a minor arterial in the City of Salinas General Plan. The surrounding land use includes industrial and commercial areas. Speed data collected August 14, 2024 revealed the 85th percentile speed of 44 mph. The 10 mph pace ranges from 36 mph to 45 mph and suggests the 85th percentile is within this range. Based on the surrounding land use, the 10 mph pace range, the prevailing speeds rounded up and reduced by 5 mph per MUTCD option 2, and following the implementation of Assembly Bill No. 43, authorizing local authority to further reduce speed limits, the existing posted speed limit of 35 mph should be retained.

CONCLUSIONS:

The Engineering and Traffic Surveys contained in **Appendix A** of this report are intended to establish and justify posted speed limits that can be enforced by radar. The posted speed limits advise the motorist and enforcement agencies of speeds considered reasonable for a particular section of highway for prevailing conditions. The posted speed limits are not absolute maximums, but rather prima facie speed limits for which violations would be cited under the Basic Speed Law (Section 22350 of the CVC). CVC 22350 states that a person shall not drive a vehicle at a speed greater than is safe, having regard for traffic, roadway, and weather conditions. A prima facie limit merely suggests a safe speed under normal conditions.

Table 1: Engineering and Traffic Survey Summary

No.	Street	Segment	Existing Speed Limit (mph)	85 th -Percentile Speed (mph)			MUTCD Applied Reduction Option	Survey Expiration
				Measured	Rounded	Recommended		
69	Sherwood Drive	East Market Street to East Bernal Drive	40	48	50	40	2	08/12/2029
87	Skyway Boulevard	Airport Boulevard East Alisal Street	35	42	40	35	1	08/14/2029
88	Work Street	East Alisal Street to South Sanborn Road	35	44	45	35	2	08/14/2029

COLLISION HISTORY

The Engineering and Traffic Survey forms summarize the available collision information for each of the street segments. The collision information was obtained from the City of Salinas from January 1, 2021 to December 31, 2022. For this analysis, only collisions during the 2-year period between January 1, 2021 to December 31, 2022 were considered. The collisions were reviewed and only corridor related collisions, those not related to signalized intersections, were summarized for each segment. Based on the number of total collisions studied over the 2-year period and average daily traffic (ADT) counts, a collision rate was calculated for each segment. The collision rates for each segment were compared to the statewide average rate listed in the 2021 Collision Data on California State Highways, to provide a general comparison of the collision rates on the segments to expected collisions rates for similar types of roadways, shown in **Table 2: Collision Rate Summary**.

Lane Type	Total Statewide Urban Collision Rate (2019, 2020, 2021) (Total per million vehicle miles)
2 and 3 lane	1.11
4+ lanes (undivided)	1.39
4+ lanes (divided)	1.04

Table 2: Collision Rate Summary








No.	STREET	SEGMENT	Existing Facility	Length (mi)	AADT	Collisions (2 years) (2021-2022)	Collision Rate (Acc./MVM)	Statewide Collision Rate (Acc./MVM)
69	Sherwood Drive	East Market Street to East Bernal Drive	4+ Lanes (Undivided)	1.06	13,732	15	1.41	1.39
87	Skyway Boulevard	Airport Boulevard to East Alisal Street	4+ Lanes (Undivided)	0.44	9,127	4	1.36	1.39
88	Work Street	East Alisal Street to South Sanborn Road	4+ Lanes (Undivided)	1.20	9,864	11	1.27	1.39

APPENDIX A
ENGINEERING AND TRAFFIC SURVEYS



COMMENTS:

This segment of Sherwood Drive is classified as a major arterial in the City of Salinas General Plan. The surrounding land use includes agricultural areas, backing residential homes, general commercial areas, and schools. Speed data collected August 12, 2024 revealed the 85th percentile speed of 48 mph. The 10 mph pace ranges from 41 mph to 50 mph and suggests the 85th percentile is within this range. Based on the surrounding land use, the 10 mph pace range, the prevailing speeds rounded up and reduced by 5 mph per MUTCD option 2, and following the implementation of Assembly Bill No. 43 authorizing local authority to further reduce speed limits, the existing posted speed limit of 40 mph should be retained.

AREA	DESCRIPTION	MAP SYMBOL	
Distance	Approximately 5,600 Feet	<div><div>ALL-WAY STOP</div><div>SIGNAL</div><div>SPEED SIGN</div><div>CITY LIMITS</div><div>CROSSWALK</div><div>SCHOOL CROSSWALK</div></div>	
Vertical Alignment	Flat		
Street Width	80 Feet		
No. Lanes and Median	4+ Lanes (Undivided)		
Proposed Speed Zone	40 MPH		
85th Percentile Speed	48 MPH		
Traffic Volume (Date)	13,732 (2023)		
Accident Data (2 years)	15 Collision (2021-2022)		
Street Segment Collision Rate = $\frac{\text{Collisions}}{\text{Years} (365) \text{ (ADT)} \text{ (Length in Miles)}}$	1.41 Acc./MVM		



CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES

RADAR SURVEY

Street:	Sherwood Drive	Direction:	SBD	Comments: <div style="border: 1px solid black; padding: 2px; margin-top: 10px;">No. 69</div>
Between:	East Market Street and East Bernal Drive			
Survey Location:	Sherwood Place			
Speed Limit:	40 MPH			
Date:	08/12/24	Day:	Monday	
Hours:	From: 02:51	To:	03:00	
Weather:	Sunny			
Observer(s):	Eva and Sean			

MPH	Frequency	Percent	Cumulative %	
25	0	0.00%	0.00%	
26	0	0.00%	0.00%	
27	0	0.00%	0.00%	
28	0	0.00%	0.00%	
29	0	0.00%	0.00%	
30	0	0.00%	0.00%	
31	0	0.00%	0.00%	
32	0	0.00%	0.00%	
33	0	0.00%	0.00%	
34	0	0.00%	0.00%	
35	0	0.00%	0.00%	
36	0	0.00%	0.00%	
37	0	0.00%	0.00%	
38	0	0.00%	0.00%	
39	0	0.00%	0.00%	
40	0	0.00%	0.00%	
41	0	0.00%	0.00%	
42	3	6.00%	6.00%	
43	4	8.00%	14.00%	
44	4	8.00%	22.00%	
45	11	22.00%	44.00%	
46	5	10.00%	54.00%	
47	9	18.00%	72.00%	
48	7	14.00%	86.00%	
49	4	8.00%	94.00%	
50	3	6.00%	100.00%	
51	0	0.00%	100.00%	
52	0	0.00%	100.00%	
53	0	0.00%	100.00%	
54	0	0.00%	100.00%	
55	0	0.00%	100.00%	
56	0	0.00%	100.00%	
57	0	0.00%	100.00%	
58	0	0.00%	100.00%	
59	0	0.00%	100.00%	
60	0	0.00%	100.00%	
61	0	0.00%	100.00%	
62	0	0.00%	100.00%	
63	0	0.00%	100.00%	
64	0	0.00%	100.00%	
65	0	0.00%	100.00%	
66	0	0.00%	100.00%	
67	0	0.00%	100.00%	
68	0	0.00%	100.00%	
69	0	0.00%	100.00%	
Totals:	50	100.00%		

Data Analysis:

Time Mean Speed:	46.1	MPH
Sample Variance:	4.73	
Standard Deviation:	2.2	
Variance of the Mean:	0.0946	
Standard Error of the Mean:	0.3	
10 MPH Pace:	41	To: 50 MPH
Percent in Pace:	100.0%	
Vehicles in Pace:	50	
50th Percentile Speed:	46	MPH
85th Percentile Speed:	48	MPH
90th Percentile Speed:	49	MPH
95th Percentile Speed:	50	MPH

Cumulative Frequency Distribution

Spot Speed MPH

Frequency Distribution

Spot Speed, MPH



CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES

RADAR SURVEY

Street:	Sherwood Drive	Direction:	NBD		
Between:	East Market Street and East Bernal Drive	No. 69 Comments:			
Survey Location:	Sherwood Place				
Speed Limit:	40 MPH				
Date:	08/12/24				
Hours:	From: 02:51	To:	03:00		
Weather:	Sunny				
Observer(s):	Eva and Sean				

MPH	Frequency	Percent	Cumulative %	
25	0	0.00%	0.00%	Data Analysis:
26	0	0.00%	0.00%	
27	0	0.00%	0.00%	
28	0	0.00%	0.00%	
29	0	0.00%	0.00%	
30	0	0.00%	0.00%	
31	0	0.00%	0.00%	
32	0	0.00%	0.00%	
33	0	0.00%	0.00%	
34	0	0.00%	0.00%	
35	0	0.00%	0.00%	Time Mean Speed: 45.1 MPH
36	0	0.00%	0.00%	Sample Variance: 8.61
37	1	2.00%	2.00%	Standard Deviation: 2.9
38	0	0.00%	2.00%	Variance of the Mean: 0.1722
39	1	2.00%	4.00%	Standard Error of the Mean: 0.4
40	1	2.00%	6.00%	10 MPH Pace: 41 To: 50 MPH
41	4	8.00%	14.00%	Percent in Pace: 94.0%
42	2	4.00%	18.00%	Vehicles in Pace: 47
43	6	12.00%	30.00%	50th Percentile Speed: 45 MPH
44	3	6.00%	36.00%	85th Percentile Speed: 48 MPH
45	7	14.00%	50.00%	90th Percentile Speed: 48 MPH
46	8	16.00%	66.00%	95th Percentile Speed: 50 MPH
47	7	14.00%	80.00%	
48	5	10.00%	90.00%	
49	2	4.00%	94.00%	
50	3	6.00%	100.00%	
51	0	0.00%	100.00%	
52	0	0.00%	100.00%	
53	0	0.00%	100.00%	
54	0	0.00%	100.00%	
55	0	0.00%	100.00%	
56	0	0.00%	100.00%	
57	0	0.00%	100.00%	
58	0	0.00%	100.00%	
59	0	0.00%	100.00%	
60	0	0.00%	100.00%	
61	0	0.00%	100.00%	
62	0	0.00%	100.00%	
63	0	0.00%	100.00%	
64	0	0.00%	100.00%	
65	0	0.00%	100.00%	
66	0	0.00%	100.00%	
67	0	0.00%	100.00%	
68	0	0.00%	100.00%	
69	0	0.00%	100.00%	
Totals:	50	100.00%		

Cumulative Frequency Distribution

Frequency Distribution



CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES

RADAR SURVEY

Street:	<u>Sherwood Drive</u>	Direction:	<u>SBD/NBD</u>		Comments:
Between:	<u>East Market Street and East Bernal Drive</u>	No. 69			
Survey Location:	<u>Sherwood Place</u>				
Speed Limit:	<u>40</u> MPH				
Date:	<u>08/12/24</u>				
Hours:	From: <u>02:51</u>	To:	<u>03:00</u>		
Weather:	<u>Sunny</u>				
Observer(s):	<u>Eva and Sean</u>				

MPH	Frequency	Percent	Cumulative %	
25	0	0.00%	0.00%	
26	0	0.00%	0.00%	
27	0	0.00%	0.00%	
28	0	0.00%	0.00%	
29	0	0.00%	0.00%	
30	0	0.00%	0.00%	
31	0	0.00%	0.00%	
32	0	0.00%	0.00%	
33	0	0.00%	0.00%	
34	0	0.00%	0.00%	
35	0	0.00%	0.00%	
36	0	0.00%	0.00%	
37	1	1.00%	1.00%	
38	0	0.00%	1.00%	
39	1	1.00%	2.00%	
40	1	1.00%	3.00%	
41	4	4.00%	7.00%	
42	5	5.00%	12.00%	
43	10	10.00%	22.00%	
44	7	7.00%	29.00%	
45	18	18.00%	47.00%	
46	13	13.00%	60.00%	
47	16	16.00%	76.00%	
48	12	12.00%	88.00%	
49	6	6.00%	94.00%	
50	6	6.00%	100.00%	
51	0	0.00%	100.00%	
52	0	0.00%	100.00%	
53	0	0.00%	100.00%	
54	0	0.00%	100.00%	
55	0	0.00%	100.00%	
56	0	0.00%	100.00%	
57	0	0.00%	100.00%	
58	0	0.00%	100.00%	
59	0	0.00%	100.00%	
60	0	0.00%	100.00%	
61	0	0.00%	100.00%	
62	0	0.00%	100.00%	
63	0	0.00%	100.00%	
64	0	0.00%	100.00%	
65	0	0.00%	100.00%	
66	0	0.00%	100.00%	
67	0	0.00%	100.00%	
68	0	0.00%	100.00%	
69	0	0.00%	100.00%	
Totals:	100	100.00%		

Data Analysis:

Time Mean Speed:	45.6	MPH
Sample Variance:	6.85	
Standard Deviation:	2.6	
Variance of the Mean:	0.0685	
Standard Error of the Mean:	0.3	
10 MPH Pace:	41	To: 50 MPH
Percent in Pace:	97.0%	
Vehicles in Pace:	97	
50th Percentile Speed:	46	MPH
85th Percentile Speed:	48	MPH
90th Percentile Speed:	49	MPH
95th Percentile Speed:	50	MPH

Cumulative Frequency Distribution

Frequency Distribution

SPEED SURVEY FIELD SHEET

CITY OF SALINAS

SITE CODE

69

LOCATION

Sherwood Dr. between E. Market St and Highway 101

DATE

08/12/24

DAY

Monday

TIME

2:51

TO

3:00

OBSERVER

Sean L.

CALCULATED BY

Eva H.

WEATHER

Sunny

Direction: Oncoming South

MPH	Number of Vehicles			
	5	10	15	20
70				
69				
68				
67				
66				
65				
64				
63				
62				
61				
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50	X	X	X	
49	X	X	X	
48	X	X	X	
47	X	X	X	
46	X	X	X	
45	X	X	X	
44	X	X	X	
43	X	X	X	
42	X	X	X	
41				
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12				
11				
10				








Direction: Away North

MPH	Number of Vehicles			
	5	10	15	20
70				
69				
68				
67				
66				
65				
64				
63				
62				
61				
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50	X	X	X	
49	X	X	X	
48	X	X	X	
47	X	X	X	
46	X	X	X	
45	X	X	X	
44	X	X	X	
43	X	X	X	
42	X	X	X	
41	X	X	X	
40	X			
39	X			
38				
37	X			
36				
35				
34				
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22				
21				
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12				
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10				



COMMENTS:

This segment of Skyway Boulevard is classified as a minor arterial in the City of Salinas General Plan. The surrounding land use includes a private golf course and a municipal airport. Speed data collected August 14, 2024 revealed the 85th percentile speed of 42 mph. The 10 mph pace ranges from 36 mph to 45 mph and suggests the 85th percentile is within this range. Based on the surrounding land use, the 10 mph pace range, and the prevailing speeds rounded down and reduced by 5 mph per MUTCD option 1, the existing posted speed limit of 35 mph should be retained.

AREA	DESCRIPTION	MAP SYMBOL	
Distance	Approximately 2,300 Feet	<div> ALL WAY STOP</div> <div> SIGNAL</div> <div> SPEED SIGN</div> <div> CITY LIMITS</div> <div> CROSSWALK</div> <div> SCHOOL CROSSWALK</div>	
Vertical Alignment	Flat		
Street Width	63 Feet		
No. Lanes and Median	4+ Lanes (Undivided)		
Proposed Speed Zone	35 MPH		
85 th Percentile Speed	42 MPH		
Traffic Volume (Date)	9,127 (2023)		
Accident Data (2 years)	4 Collisions (2021-2022)		
Street Segment Collision Rate = (Collisions) (1,000,000) (Years) (365) (ADT) (Length in Miles)	1.36 Acc./MVM		



CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES

RADAR SURVEY

Street:	Skyway Boulevard	Direction:	NBD	Comments:
Between:	Airport Boulevard and East Alisal Street			No. 87
Survey Location:	S/O East Alisal Street			
Speed Limit:	35 MPH			
Date:	08/14/24	Day:	Monday	
Hours:	From: 02:57	To:	03:16	
Weather:	Sunny			
Observer(s):	Eva and Sean			

MPH	Frequency	Percent	Cumulative %	<i>Data Analysis:</i>
10	0	0.00%	0.00%	
11	0	0.00%	0.00%	
12	0	0.00%	0.00%	
13	0	0.00%	0.00%	
14	0	0.00%	0.00%	
15	0	0.00%	0.00%	
16	0	0.00%	0.00%	
17	0	0.00%	0.00%	
18	0	0.00%	0.00%	
19	0	0.00%	0.00%	
20	0	0.00%	0.00%	
21	0	0.00%	0.00%	
22	0	0.00%	0.00%	
23	0	0.00%	0.00%	
24	0	0.00%	0.00%	
25	0	0.00%	0.00%	
26	0	0.00%	0.00%	
27	0	0.00%	0.00%	
28	0	0.00%	0.00%	
29	0	0.00%	0.00%	
30	0	0.00%	0.00%	
31	0	0.00%	0.00%	
32	3	6.00%	6.00%	
33	0	0.00%	6.00%	
34	2	4.00%	10.00%	
35	1	2.00%	12.00%	
36	4	8.00%	20.00%	
37	7	14.00%	34.00%	
38	3	6.00%	40.00%	
39	3	6.00%	46.00%	
40	4	8.00%	54.00%	
41	6	12.00%	66.00%	
42	8	16.00%	82.00%	
43	3	6.00%	88.00%	
44	4	8.00%	96.00%	
45	2	4.00%	100.00%	
46	0	0.00%	100.00%	
47	0	0.00%	100.00%	
48	0	0.00%	100.00%	
49	0	0.00%	100.00%	
50	0	0.00%	100.00%	
51	0	0.00%	100.00%	
52	0	0.00%	100.00%	
53	0	0.00%	100.00%	
54	0	0.00%	100.00%	
Totals:	50	100.00%		

Time Mean Speed: 39.4 **MPH**

Sample Variance: 12.08

Standard Deviation: 3.5

Variance of the Mean: 0.2416

Standard Error of the Mean: 0.5

10 MPH Pace: 36 **To:** 45 **MPH**

Percent in Pace: 88.0%

Vehicles in Pace: 44

50th Percentile Speed: 40 **MPH**

85th Percentile Speed: 43 **MPH**

90th Percentile Speed: 44 **MPH**

95th Percentile Speed: 44 **MPH**

Cumulative Frequency Distribution

Frequency Distribution



CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES

RADAR SURVEY

Street:	Skyway Boulevard	Direction:	SBD	Comments:
Between:	Airport Boulevard and East Alisal Street			No. 87
Survey Location:	S/O East Alisal Street			
Speed Limit:	35 MPH			
Date:	08/14/24	Day:	Monday	
Hours:	From: 02:57	To:	03:16	
Weather:	Sunny			
Observer(s):	Eva and Sean			

MPH	Frequency	Percent	Cumulative %	<i>Data Analysis:</i>
10	0	0.00%	0.00%	
11	0	0.00%	0.00%	
12	0	0.00%	0.00%	
13	0	0.00%	0.00%	
14	0	0.00%	0.00%	
15	0	0.00%	0.00%	
16	0	0.00%	0.00%	
17	0	0.00%	0.00%	
18	0	0.00%	0.00%	
19	0	0.00%	0.00%	
20	0	0.00%	0.00%	
21	0	0.00%	0.00%	
22	0	0.00%	0.00%	
23	0	0.00%	0.00%	
24	0	0.00%	0.00%	
25	0	0.00%	0.00%	
26	0	0.00%	0.00%	
27	0	0.00%	0.00%	
28	0	0.00%	0.00%	
29	0	0.00%	0.00%	
30	0	0.00%	0.00%	
31	0	0.00%	0.00%	
32	1	2.00%	2.00%	
33	2	4.00%	6.00%	
34	4	8.00%	14.00%	
35	1	2.00%	16.00%	
36	5	10.00%	26.00%	
37	4	8.00%	34.00%	
38	2	4.00%	38.00%	
39	8	16.00%	54.00%	
40	5	10.00%	64.00%	
41	10	20.00%	84.00%	
42	3	6.00%	90.00%	
43	2	4.00%	94.00%	
44	1	2.00%	96.00%	
45	2	4.00%	100.00%	
46	0	0.00%	100.00%	
47	0	0.00%	100.00%	
48	0	0.00%	100.00%	
49	0	0.00%	100.00%	
50	0	0.00%	100.00%	
51	0	0.00%	100.00%	
52	0	0.00%	100.00%	
53	0	0.00%	100.00%	
54	0	0.00%	100.00%	
Totals:	50	100.00%		

Time Mean Speed: 38.8 MPH

Sample Variance: 10.19

Standard Deviation: 3.2

Variance of the Mean: 0.2038

Standard Error of the Mean: 0.5

10 MPH Pace: 33 To: 42 MPH

Percent in Pace: 88.0%

Vehicles in Pace: 44

50th Percentile Speed: 39 MPH

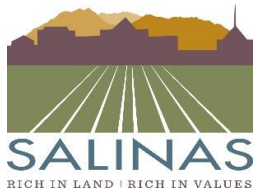
85th Percentile Speed: 42 MPH

90th Percentile Speed: 42 MPH

95th Percentile Speed: 44 MPH

Cumulative Frequency Distribution

Frequency Distribution



CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES

RADAR SURVEY

Street:	Skyway Boulevard	Direction:	NBD/SBD	Comments:
Between:	Airport Boulevard and East Alisal Street			No. 87
Survey Location:	S/O East Alisal Street			
Speed Limit:	35 MPH			
Date:	08/14/24	Day:	Monday	
Hours: From:	02:57	To:	03:16	
Weather:	Sunny			
Observer(s):	Eva and Sean			

MPH	Frequency	Percent	Cumulative %	<i>Data Analysis:</i>
10	0	0.00%	0.00%	
11	0	0.00%	0.00%	
12	0	0.00%	0.00%	
13	0	0.00%	0.00%	
14	0	0.00%	0.00%	
15	0	0.00%	0.00%	
16	0	0.00%	0.00%	
17	0	0.00%	0.00%	
18	0	0.00%	0.00%	
19	0	0.00%	0.00%	
20	0	0.00%	0.00%	
21	0	0.00%	0.00%	
22	0	0.00%	0.00%	
23	0	0.00%	0.00%	
24	0	0.00%	0.00%	
25	0	0.00%	0.00%	
26	0	0.00%	0.00%	
27	0	0.00%	0.00%	
28	0	0.00%	0.00%	
29	0	0.00%	0.00%	
30	0	0.00%	0.00%	
31	0	0.00%	0.00%	
32	4	4.00%	4.00%	
33	2	2.00%	6.00%	
34	6	6.00%	12.00%	
35	2	2.00%	14.00%	
36	9	9.00%	23.00%	
37	11	11.00%	34.00%	
38	5	5.00%	39.00%	
39	11	11.00%	50.00%	
40	9	9.00%	59.00%	
41	16	16.00%	75.00%	
42	11	11.00%	86.00%	
43	5	5.00%	91.00%	
44	5	5.00%	96.00%	
45	4	4.00%	100.00%	
46	0	0.00%	100.00%	
47	0	0.00%	100.00%	
48	0	0.00%	100.00%	
49	0	0.00%	100.00%	
50	0	0.00%	100.00%	
51	0	0.00%	100.00%	
52	0	0.00%	100.00%	
53	0	0.00%	100.00%	
54	0	0.00%	100.00%	
Totals:	100	100.00%		

Time Mean Speed: 39.1 MPH

Sample Variance: 11.11

Standard Deviation: 3.3

Variance of the Mean: 0.1111

Standard Error of the Mean: 0.3

10 MPH Pace: 36 To: 45 MPH

Percent in Pace: 86.0%

Vehicles in Pace: 86

50th Percentile Speed: 39 MPH

85th Percentile Speed: 42 MPH

90th Percentile Speed: 43 MPH

95th Percentile Speed: 44 MPH

Cumulative Frequency Distribution

Frequency Distribution

CITY OF SALINAS

87

DATE _____

Skylway Blvd between Airport Blvd and E Alisal St

8-17-74 DAY Wednesday

TIME 2:57 TO 3:16

OBSERVER

Sean L.

CALCULATED BY

Eva H.

WEATHER

Sunny

Direction:

~~Forest~~^{Fun} Away

[illegible]

Direction:








~~max~~^{syn} Incoming

[illegible]



COMMENTS:

This segment of Work Street is classified as a minor arterial in the City of Salinas General Plan. The surrounding land use includes industrial and commercial areas. Speed data collected August 14, 2024 revealed the 85th percentile speed of 44 mph. The 10 mph pace ranges from 36 mph to 45 mph and suggests the 85th percentile is within this range. Based on the surrounding land use, the 10 mph pace range, the prevailing speeds rounded up and reduced by 5 mph per MUTCD option 2, and following the implementation of Assembly Bill No. 43 authorizing local authority to further reduce speed limits, the existing posted speed limit of 35 mph should be retained.

AREA	DESCRIPTION	MAP SYMBOL	
Distance	Approximately 6,350 Feet	<div> ALL WAY STOP</div> <div> SIGNAL</div> <div> SPEED SIGN</div> <div> CITY LIMITS</div> <div> CROSSWALK</div> <div> SCHOOL CROSSWALK</div>	
Vertical Alignment	Flat		
Street Width	Varies (60 to 85 Feet)		
No. Lanes and Median	4+ Lanes (Undivided)		
Proposed Speed Zone	35 MPH		
85 th Percentile Speed	44 MPH		
Traffic Volume (Date)	9,864 (2023)		
Accident Data (2 years)	11 Collisions (2021-2022)		
Street Segment Collision Rate = (Collisions) (1,000,000) (Years) (365) (ADT) (Length in Miles)	1.27 Acc./MVM		



CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES

RADAR SURVEY

Street:	<u>Work Street</u>	Direction:	<u>NBD</u>	Comments: No. 88
Between:	<u>East Alisal Street and South Sanborn Road</u>			
Survey Location:	<u>N/O Ottone Circle</u>			
Speed Limit:	<u>40</u> MPH			
Date:	<u>8/14/2024</u>	Day:	<u>Wednesday</u>	
Hours:	From: <u>03:26</u>	To:	<u>03:56</u>	
Weather:	<u>Sunny</u>			
Observer(s):	<u>Eva and Sean</u>			

MPH	Frequency	Percent	Cumulative %	
10	0	0.00%	0.00%	
11	0	0.00%	0.00%	
12	0	0.00%	0.00%	
13	0	0.00%	0.00%	
14	0	0.00%	0.00%	
15	0	0.00%	0.00%	
16	0	0.00%	0.00%	
17	0	0.00%	0.00%	
18	0	0.00%	0.00%	
19	0	0.00%	0.00%	
20	0	0.00%	0.00%	
21	0	0.00%	0.00%	
22	0	0.00%	0.00%	
23	0	0.00%	0.00%	
24	0	0.00%	0.00%	
25	0	0.00%	0.00%	
26	0	0.00%	0.00%	
27	0	0.00%	0.00%	
28	0	0.00%	0.00%	
29	0	0.00%	0.00%	
30	0	0.00%	0.00%	
31	0	0.00%	0.00%	
32	0	0.00%	0.00%	
33	1	2.00%	2.00%	
34	0	0.00%	2.00%	
35	4	8.00%	10.00%	
36	3	6.00%	16.00%	
37	2	4.00%	20.00%	
38	3	6.00%	26.00%	
39	5	10.00%	36.00%	
40	4	8.00%	44.00%	
41	5	10.00%	54.00%	
42	4	8.00%	62.00%	
43	3	6.00%	68.00%	
44	5	10.00%	78.00%	
45	5	10.00%	88.00%	
46	4	8.00%	96.00%	
47	2	4.00%	100.00%	
48	0	0.00%	100.00%	
49	0	0.00%	100.00%	
50	0	0.00%	100.00%	
51	0	0.00%	100.00%	
52	0	0.00%	100.00%	
53	0	0.00%	100.00%	
54	0	0.00%	100.00%	
Totals:	50	100.00%		

Data Analysis:

Time Mean Speed:	41.0	MPH
Sample Variance:	13.86	
Standard Deviation:	3.7	
Variance of the Mean:	0.2772	
Standard Error of the Mean:	0.5	
10 MPH Pace:	38	To: 47 MPH
Percent in Pace:	84.0%	
Vehicles in Pace:	42	
50th Percentile Speed:	41	MPH
85th Percentile Speed:	45	MPH
90th Percentile Speed:	46	MPH
95th Percentile Speed:	46	MPH

Cumulative Frequency Distribution

Frequency Distribution



CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES

RADAR SURVEY

Street:	Work Street	Direction:	SBD		
Between:	East Alisal Street and South Sanborn Road				No. 88 Comments:
Survey Location:	N/O Ottone Circle				
Speed Limit:	40 MPH				
Date:	8/14/2024	Day:	Wednesday		
Hours:	From: 03:26	To:	03:56		
Weather:	Sunny				
Observer(s):	Eva and Sean				

MPH	Frequency	Percent	Cumulative %	Data Analysis:			
10	0	0.00%	0.00%	<div><div>Time Mean Speed:</div><div>38.8</div><div>MPH</div><div>Sample Variance:</div><div>11.40</div><div>Standard Deviation:</div><div>3.4</div><div>Variance of the Mean:</div><div>0.2280</div><div>Standard Error of the Mean:</div><div>0.5</div><div>10 MPH Pace:</div><div>33</div><div>To:</div><div>42</div><div>MPH</div><div>Percent in Pace:</div><div>84.0%</div><div>Vehicles in Pace:</div><div>42</div><div>50th Percentile Speed:</div><div>38</div><div>MPH</div><div>85th Percentile Speed:</div><div>43</div><div>MPH</div><div>90th Percentile Speed:</div><div>43</div><div>MPH</div><div>95th Percentile Speed:</div><div>44</div><div>MPH</div></div>			
11	0	0.00%	0.00%				
12	0	0.00%	0.00%				
13	0	0.00%	0.00%				
14	0	0.00%	0.00%				
15	0	0.00%	0.00%				
16	0	0.00%	0.00%				
17	0	0.00%	0.00%				
18	0	0.00%	0.00%				
19	0	0.00%	0.00%				
20	0	0.00%	0.00%				
21	0	0.00%	0.00%				
22	0	0.00%	0.00%				
23	0	0.00%	0.00%				
24	0	0.00%	0.00%				
25	0	0.00%	0.00%				
26	0	0.00%	0.00%				
27	0	0.00%	0.00%				
28	0	0.00%	0.00%				
29	0	0.00%	0.00%				
30	0	0.00%	0.00%				
31	0	0.00%	0.00%				
32	0	0.00%	0.00%				
33	3	6.00%	6.00%				
34	4	8.00%	14.00%				
35	1	2.00%	16.00%				
36	6	12.00%	28.00%				
37	5	10.00%	38.00%				
38	6	12.00%	50.00%				
39	4	8.00%	58.00%				
40	5	10.00%	68.00%				
41	3	6.00%	74.00%				
42	5	10.00%	84.00%				
43	3	6.00%	90.00%				
44	3	6.00%	96.00%				
45	2	4.00%	100.00%				
46	0	0.00%	100.00%				
47	0	0.00%	100.00%				
48	0	0.00%	100.00%				
49	0	0.00%	100.00%				
50	0	0.00%	100.00%				
51	0	0.00%	100.00%				
52	0	0.00%	100.00%				
53	0	0.00%	100.00%				
54	0	0.00%	100.00%				
Totals:	50	100.00%					

Cumulative Frequency Distribution

Spot Speed MPH	Cumulative Frequency (%)
31	0%
32	0%
33	6%
34	14%
35	16%
36	28%
37	38%
38	50%
39	58%
40	68%
41	74%
42	84%
43	90%
44	96%
45	100%
46	100%

Frequency Distribution

Spot Speed, MPH	Frequency
34	3
35	4
36	1
37	6
38	5
39	6
40	4
41	5
42	3
43	5
44	3
45	3
46	2



CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES

RADAR SURVEY

Street:	Work Street	Direction:	NBD/SBD	Comments:
Between:	East Alisal Street and South Sanborn Road	No. 88		
Survey Location:	N/O Ottone Circle			
Speed Limit:	40 MPH			
Date:	8/14/2024			
Hours:	From: 03:26	To:	03:56	
Weather:	Sunny			
Observer(s):	Eva and Sean			

MPH	Frequency	Percent	Cumulative %	Data Analysis:		
10	0	0.00%	0.00%	<div>Time Mean Speed: 39.9 MPH</div> <div>Sample Variance: 13.72</div> <div>Standard Deviation: 3.7</div> <div>Variance of the Mean: 0.1372</div> <div>Standard Error of the Mean: 0.4</div> <div>10 MPH Pace: 36 To: 45 MPH</div> <div>Percent in Pace: 81.0%</div> <div>Vehicles in Pace: 81</div> <div>50th Percentile Speed: 40 MPH</div> <div>85th Percentile Speed: 44 MPH</div> <div>90th Percentile Speed: 45 MPH</div> <div>95th Percentile Speed: 46 MPH</div>		
11	0	0.00%	0.00%			
12	0	0.00%	0.00%			
13	0	0.00%	0.00%			
14	0	0.00%	0.00%			
15	0	0.00%	0.00%			
16	0	0.00%	0.00%			
17	0	0.00%	0.00%			
18	0	0.00%	0.00%			
19	0	0.00%	0.00%			
20	0	0.00%	0.00%			
21	0	0.00%	0.00%			
22	0	0.00%	0.00%			
23	0	0.00%	0.00%			
24	0	0.00%	0.00%			
25	0	0.00%	0.00%			
26	0	0.00%	0.00%			
27	0	0.00%	0.00%			
28	0	0.00%	0.00%			
29	0	0.00%	0.00%			
30	0	0.00%	0.00%			
31	0	0.00%	0.00%			
32	0	0.00%	0.00%			
33	4	4.00%	4.00%			
34	4	4.00%	8.00%			
35	5	5.00%	13.00%			
36	9	9.00%	22.00%			
37	7	7.00%	29.00%			
38	9	9.00%	38.00%			
39	9	9.00%	47.00%			
40	9	9.00%	56.00%			
41	8	8.00%	64.00%			
42	9	9.00%	73.00%			
43	6	6.00%	79.00%			
44	8	8.00%	87.00%			
45	7	7.00%	94.00%			
46	4	4.00%	98.00%			
47	2	2.00%	100.00%			
48	0	0.00%	100.00%			
49	0	0.00%	100.00%			
50	0	0.00%	100.00%			
51	0	0.00%	100.00%			
52	0	0.00%	100.00%			
53	0	0.00%	100.00%			
54	0	0.00%	100.00%			
Totals:	100	100.00%				

Cumulative Frequency Distribution

Spot Speed MPH	Cumulative Frequency (%)
10	0.00
13	0.00
16	0.00
19	0.00
22	0.00
25	0.00
28	0.00
31	0.00
34	0.00
37	13.00
40	22.00
43	38.00
46	56.00
49	73.00
52	87.00

Frequency Distribution

Spot Speed, MPH	Frequency
34	4
35	4
36	5
37	9
38	7
39	9
40	9
41	8
42	9
43	6
44	8
45	7
46	4
47	2

SITE CODE
88

SPEED SURVEY FIELD SHEET

CITY OF SALINAS

LOCATION

Work St between E. Alisal St and J. Sanborn Rd

DATE

08/14/24

DAY

Wednesday

TIME

3:26

TO

3:56

OBSERVER

Sean L.

CALCULATED BY

Eva H.

WEATHER

Sunny

Direction: <u>North Away</u>				
MPH	Number of Vehicles			
	5	10	15	20
70				
69				
68				
67				
66				
65				
64				
63				
62				
61				
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48				
47	X			
46	X			
45	X			
44	X			
43	X			
42	X			
41	X			
40	X			
39	X			
38	X			
37	X			
36	X			
35	X			
34				
33	X			
32				
31				
30				
29				
28				
27				
26				
25				
24				
23				
22				
21				
20				
19				
18				
17				
16				
15				
14				
13				
12				
11				
10				

Direction: <u>South Oncoming</u>				
MPH	Number of Vehicles			
	5	10	15	20
70				
69				
68				
67				
66				
65				
64				
63				
62				
61				
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48				
47				
46				
45	X			
44	X			
43	X			
42	X			
41	X			
40	X			
39	X			
38	X			
37	X			
36	X			
35	X			
34	X			
33	X			
32				
31				
30				
29				
28				
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11				
10				