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2019

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

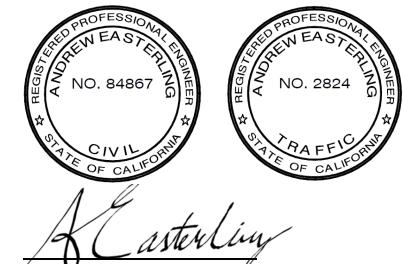
City of Salinas

PUBLIC WORKS DEPARTMENT • 200 Lincoln Ave • Salinas, California

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CERTIFICATION

I, Andrew Easterling, 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 professional Civil Engineer.



Andrew Easterling PE, TE, PTOE

Traffic Engineer

INTRODUCTION:

The 2019 Engineering and Traffic (E&T) Survey 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. This E&T Survey is 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 Transportation and Traffic 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 of Uniform Traffic Control Devices (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 California MUTCD allows for options to further reduce the speed limit. That methodology was applied to the fourteen (14) 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 survey will be valid until 2024, 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 California 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 regards 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 5 2016 Traffic Speed Zone Survey City of Salinas 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 engineering and traffic 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 fourteen (14) roadway sections are listed in **Table 1: Engineering** and **Traffic Survey Summary:**

Unchanged

- **34)** Harden Parkway between North Main Street and El Dorado Drive This segment of Harden Parkway is classified as a minor arterial in the City of Salinas General Plan. The surrounding land use includes backing residential, retail, office and park areas. Speed data collected May 30, 2019 revealed the 85th percentile speed of 42 mph. The 10 mph pace ranges from 33 mph to 42 mph and suggests the 85th percentile is within this range. Based on the surrounding land use, and 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.
- **44)** Riker Street between West Alisal Street and Blanco Road This segment of Riker Street is classified as a collector in the City of Salinas General Plan. The surrounding land use includes fronting residential areas. Speed data collected May 30, 2019 revealed the 85th percentile speed of 32 mph. The 10 mph pace ranges from 23 mph to 32 mph and suggests the 85th percentile is within this range. Since the roadway width is 40 feet and there is fronting residential, the roadway meets the criteria of a local road. Therefore, the prevailing speeds rounded down and reduced by 5 mph per MUTCD option 1, the existing posted speed limit of 25 mph should be retained.
- **51)** Larkin Street between Davis Road and Rico Street This segment of Larkin Street is classified as a collector in the City of Salinas General Plan. The surrounding land use includes fronting residential areas, a school and a park. Speed data collected May 28, 2019 revealed the 85th percentile speed of 32 mph. The 10 mph pace ranges from 25 mph to 34 mph and suggests the 85th percentile is within this range. Since the roadway width is 40 feet and there is fronting residential, the roadway meets the criteria of a local road. Therefore, the prevailing speeds rounded down and reduced by 5 mph per MUTCD option 1, the existing posted speed limit of 25 mph should be retained.
- **59) East Market Street between Sherwood Drive and Sanborn Road** This segment of East Market Street is classified as a major arterial in the City of Salinas General Plan. The surrounding land use includes office, commercial, and light industrial areas. Speed data collected May 28, 2019 revealed the 85th percentile speed of 39 mph. The 10 mph pace ranges from 28 mph to 37 mph and suggests the 85th percentile is above this range. Based on the surrounding land use, and the 10 mph pace range, and the prevailing speeds rounded up and reduced by 5 mph per MUTCD option 2, the existing posted speed limit of 35 mph should be retained
- **64) Sanborn Road between Del Monte Avenue and Boronda Road** This segment of Sanborn Road is classified as a major arterial in the City of Salinas General Plan. The surrounding land use includes backing residential homes, commercial areas and a school. Speed data collected May 16, 2019 revealed the 85th percentile speed of 38 mph. The 10 mph pace ranges from 28 mph to 37 mph and suggests the 85th percentile is above this range. Based on the surrounding land use, and the 10 mph pace range, and the prevailing speeds rounded up and reduced by 5 mph per MUTCD option 2, the existing posted speed limit of 35 mph should be retained.
- **66) Sanborn Road between East Laurel Drive and US Highway 101** This segment of Sanborn Road is classified as a major arterial in the City of Salinas General Plan. The surrounding land use includes residential homes, commercial and office areas. Speed data collected May 28, 2019 revealed the 85th percentile speed of 42 mph. The 10 mph pace ranges from 33 mph to 42 mph and suggests the 85th percentile is within this range. Based on the surrounding land use, and 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.
- **80) Boronda Road between Constitution Boulevard and Williams Road** This segment of Boronda Road is classified as a major arterial in the City of Salinas General Plan. The surrounding land use includes backing residential homes, and retail areas. Speed data collected May 28, 2019 revealed the 85th percentile speed of 51 mph. The 10 mph pace ranges from 37 mph to 46 mph and suggests the 85th percentile is within this range. Based on the surrounding land use, and 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 45 mph should be retained.
- **83) East Laurel Drive between North Main Street and Natividad Road** This segment of East Laurel Drive is classified as a major arterial in the City of Salinas General Plan. The surrounding land use includes residential homes, retail and office areas and a school. Speed data collected May 28, 2019 revealed the 85th percentile speed of 40 mph. The 10 mph pace ranges from 32 mph to 41 mph and suggests the 85th percentile is within this range. Based on the surrounding land

use, and the 10 mph pace range, and the prevailing speeds rounded up and reduced by 5 mph per MUTCD option 2, the existing posted speed limit of 35 mph should be retained.

- **88)** Work Street between East Alisal Street and 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 retail and industrial areas. Speed data collected May 28, 2019 revealed the 85th percentile speed of 40 mph. The 10 mph pace ranges from 32 mph to 41 mph and suggests the 85th percentile is within this range. Based on the surrounding land use, and the 10 mph pace range, and the prevailing speeds rounded up and reduced by 5 mph per MUTCD option 2, the existing posted speed limit of 35 mph should be retained.
- **97) Garner Avenue between Rider Avenue and Williams Road** This segment of Garner Avenue is classified as a minor arterial in the City of Salinas General Plan. The surrounding land use includes residential areas and a school. Speed data collected June 20, 2019 revealed the 85th percentile speed of 32 mph. The 10 mph pace ranges from 23 mph to 32 mph and suggests the 85th percentile is within this range. Based on the surrounding land use, and the 10 mph pace range, and the prevailing speeds rounded down and reduced by 5 mph per MUTCD option 1, the speed limit of 25 mph should be posted.

Garner Avenue currently lacks speed limit signs. The last speed survey certified a 25mph speed limit on Garner Avenue between Rider Avenue and Sanborn Road, and a 30mph speed limit between Sanborn Road and Williams Road. The 30mph segment E&TS was certified but never formerly adopted by City Council. The physical conditions and surrounding land uses are consistent between both relatively short segments; therefore it is recommended that the speed zones be combined into one 0.9 mile long speed zone consistent with MUTCD guidelines. The 2019 E&TS will supersede previous E&TS reports.

101) Rico Street between Larkin Street and Rossi Street- This segment of Larkin Street is classified as a collector in the City of Salinas General Plan. The surrounding land use includes fronting residential homes uses. Speed data was collected May 16, 2019 revealed the 85th-percentile speed of 36 mph. The 10 mph pace ranges from 27 mph to 36 mph and suggests the 85th percentile is within this range. Since the roadway width is 40 feet and there is fronting residential, the roadway meets the criteria of a local road. Therefore, the existing posted speed limit of 25 mph should be retained.

Decreased

37) Independence Boulevard between Constitution Boulevard to Boronda Road - This segment of Independence Boulevard is classified as a collector in the City of Salinas General Plan. The surrounding land use includes backing residential areas and a school. Speed data collected May 28, 2019 revealed the 85th percentile speed of 35 mph. The 10 mph pace ranges from 26 mph to 35 mph and suggests the 85th percentile is within this range. Based on the surrounding land use, and the 10 mph pace range, and the prevailing speeds rounded up and reduced by 5 mph per MUTCD option 2, the existing posted speed limit of 35 mph should be reduced to 30 mph.

Increased

82) Front Street between East Market Street and John Street – This segment of Front Street is classified as a major arterial in the City of Salinas General Plan. The surrounding land use includes industrial, and retail areas. Speed data collected June 5, 2019 revealed the 85th percentile speed of 35 mph. The 10 mph pace ranges from 26 mph to 35 mph and suggests the 85th percentile is within this range. Based on the surrounding land use, and the 10 mph pace range, and the prevailing speeds rounded up and reduced by 5 mph per MUTCD option 2, the speed limit of 30 mph should be posted.

Front Street is currently signed with both 35mph and 25mph speed limit signs. The last speed survey certified a 25mph speed limit on Front St between E Alisal and John St, however existing signs reflect a 35mph speed limit. It should be noted the previous speed engineering and traffic survey did not comply with MUTCD guidelines and left speed limit gaps in the transportation network. The 2019 E&TS recommends a 30 mph speed zone, which will replace existing invalid 25mph/35mph posted speed limit signs and extending the speed zone between East Market Street and John Street.

87) Skyway Boulevard between Airport Boulevard and Alisal Street - This segment of Skyway Boulevard is classified as

a minor arterial in the City of Salinas General Plan. The surrounding land use is public/semipublic uses. Speed data was collected May 16, 2019 revealed the 85th-percentile speed of 47 mph. The 10 mph pace ranges from 37 mph to 46 mph and suggests the 85th percentile is above 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 in compliance with CVC Sections 627 and 22358.5, the existing posted speed limit of 35 mph should be increased to 40 mph.

CONCLUSIONS:

The Engineering and Traffic surveys contained in **Appendix A** of this report are intended to establish or 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

			Existing	85 th -Pero	entile Spee	d (mph)	MUTCD	
No.	STREET SEGMENT	SEGMENT	Speed Limit (mph)	Measured	Rounded	Recom- mended	Applied Reduction Option	SURVEY EXPIRATION
34	Harden Parkway	N Main Street to El Dorado Drive	35	42	40	35	1	05/20/24
	Independence		35	35	35	30	2	
37	Boulevard	Provincetown Drive to Boronda Road						05/28/24
44	Riker Street	West Alisal St to West Blanco Road	25	32	30	25	1	05/30/24
51	Larkin Street	Davis Road to Rico Street	25	32	30	25	1	05/28/24
59	Market Street, East	Sherwood Drive to Sanborn Road	35	39	40	35	2	05/28/24
64	Sanborn Road	Del Monte Avenue to Boronda Road	35	38	40	35	2	05/16/24
66	Sanborn Road	E Laurel Drive to US 101	35	42	40	35	1	05/28/24
80	Boronda Road	Constitution Blvd to Williams Road	45	51	50	45	1	05/22/24
82	Front Street	E Market Street to John Street	25/35*	35	35	30	2	06/05/24
83	Laurel Drive, East	N Main Street to Natividad Road	35	40	40	35	2	05/28/24
87	Skyway Boulevard	Mortensen Avenue to Alisal Street	35	47	45	40	1	05/16/24
88	Work Street	East Alisal Street & Sanborn Road	35	42	40	35	1	06/05/24
97	Garner Avenue	Rider Avenue to Wiliams Road	35	32	30	25	1	06/20/24
101	Rico Street	Larkin Street to Rossi Street	25	37	35	25	-	05/16/24

^{*}Inconsistent Speed limit surveys and signs

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, 2017 to December 31, 2018. For this analysis, only collisions during the 2-year period between January 1, 2017 to December 31, 2018 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 2014 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 (2014, 2015, 2016) (Total per million vehicle miles)				
2 and 3 lane	1.52				
4+ lanes (undivided)	2.12				
4+ lanes (divided)	1.26				

Table 2: Collision Rate Summary

No.	STREET SEGMENT	SEGMENT	Existing Facility	Length (mi)	AADT	Collisions (2 years)	Collision Rate (Acc./MVM)	Statewide Collision Rate (Acc./MVM)
34	Harden Parkway	McKinnon Street to El Dorado Drive	4+ lanes (divided)	1.10	7,680	10	1.68	1.26
	Independence		2 and 3 lane	1.06	3,925	6	1.98	1.52
37	Boulevard	Provincetown Drive to Boronda Road						
44	Riker Street	West Alisal St to West Blanco Road	2 and 3 lane	1.01	3,820	4	1.42	1.52
51	Larkin Street	Davis Road to Rico Street	2 and 3 lane	0.63	3,502	2	1.26	1.52
59	Market Street, East	Sherwood Drive to Sanborn Road	4+ lanes (undivided)	1.29	14,947	37	2.61	2.12
64	Sanborn Road	Del Monte Avenue to Boronda Road	4+ lanes (divided)	0.97	12,539	8	1.35	1.26
66	Sanborn Road	E Laurel Drive to US 101	4+ lanes (divided)	1.23	18,978	25	1.47	1.26
80	Boronda Road	Constitution Blvd to Williams Road	2 and 3 lane	1.27	14,499	7	0.52	1.52
82	Front Street	E Market Street to John Street	4+ lanes (divided)	0.71	15,050	4	0.51	1.14
83	Laurel Drive, East	N Main Street to Natividad Road	4+ lanes (undivided)	0.78	21,199	11	0.92	1.26
87	Skyway Boulevard	Mortensen Avenue to Alisal Street	4+ lanes (undivided)	0.56	12,450	2	0.39	1.26
88	Work Street	East Alisal Street & Sanborn Road	4+ lanes (undivided)	1.19	6,950	3	0.49	1.26
97	Garner Avenue	Rider Avenue to Wiliams Road	2 and 3 lane	0.96	7,520	19	3.58	1.52
101	Rico Street	Larkin Street to Rossi Street	2 and 3 lane	0.40	9,559	1	0.35	1.52

APPENDIX A ENGINEERING AND TRAFFIC SURVEYS

CITY OF SALINAS TRANSPORTATION & ENGINEERING TRAFFIC SURVEY

STREET: RICO STREET
BETWEEN: LARKIN ST. & ROSSI ST.
SURVEY DATE: 05/16/19 (EXPIRES 2024)

101



COMMENTS:

This segment of Rico Street is classified as a collector in the City of Salinas General Plan. The surrounding land use includes fronting residential homes uses. Speed data was collected May 16, 2019 revealed the 85th-percentile speed of 36 mph. The 10 mph pace ranges from 27 mph to 36 mph and suggests the 85th percentile is within this range. Since the roadway width is 40 feet and there is fronting residential, the roadway meets the criteria of a local road. Therefore, the existing posted speed limit of 25 mph should be retained.

AREA	DESCRIPTION	MAP SYMBOL
Distance	Approximately 2,145 Feet	
Vertical Alignment	Flat	ALL WAY STOP
Street Width	40 Feet	SIGNAL
No. Lanes and Median	2-Lane Residential Collector	00550 0101
Proposed Speed Zone	25 MPH	SPEED SIGN
85th Percentile Speed	36 MPH	CITY LIMITS
Traffic Volume (Date)	9,559	CROSSWALK
Accident Data (2 years)	1 Collisions(2017 - 2018)	
Street Segment Collision Rate = (Collisions) (1,000,000) (Years) (365) (ADT) (Length in Miles)	0.35 Acc./MVM	SCHOOL CROSSWALK



48

49

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51 Totals: 0

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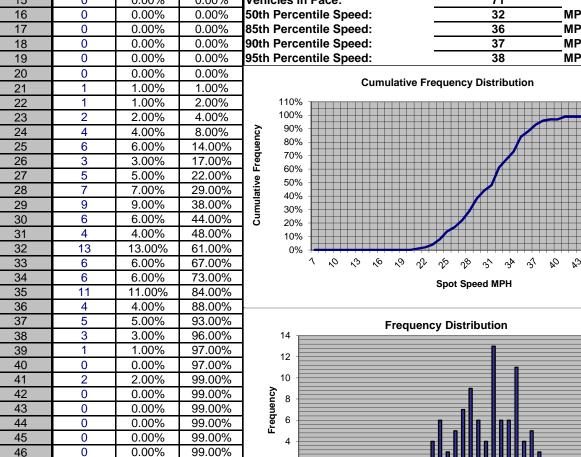
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CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES RADAR SURVEY

CALI	ORNIE			RAD	AR SURVEY	7			
Street: Between:		Rico Stree	t		Direction: WBD/EBD		Commen	ts:	
		Larkin Street & Rossi Street			No.101				
Survey Lo	cation:								
Speed Lim	nit:	25	MPH						
Date:		05/	1 6/19	Day:	Thursday				
Hours:	From:	3:1	7PM	To:	3:51PM				
Weather:			Cloudy	•	-				
Observer(s):	Chris & Herendira							
MPH	Frequency	Percent	Cumulative						
1011 11	rrequeriey	1 Clock	%		Data	Analysis	:		
7	0	0.00%	0.00%						
8	0	0.00%	0.00%	Time Mea	n Speed:	31.	3	MPH	
9	0	0.00%	0.00%	Sample V	ariance:	23.5	55		
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		. 0.00	%	Data Analysis:						
7	0	0.00%	0.00%		•					
8	0	0.00%	0.00%	Time Mean Speed:	31.3	MPH				
9	0	0.00%	0.00%	Sample Variance:	23.55					
10	0	0.00%	0.00%	Standard Deviation:	4.9	<u></u>				
11	0	0.00%	0.00%	Variance of the Mean:	0.2355					
12	0	0.00%	0.00%	Standard Error of the Mean:	0.5					
13	0	0.00%	0.00%	10 MPH Pace:	27 To:	36	MPH			
14	0	0.00%	0.00%	Percent in Pace:	71.0%					
15	0	0.00%	0.00%	Vehicles in Pace:	71					
16	0	0.00%	0.00%	50th Percentile Speed:	32	MPH				
17	0	0.00%	0.00%	85th Percentile Speed:	36	MPH				
18	0	0.00%	0.00%	90th Percentile Speed:	37	MPH				
19	0	0.00%	0.00%	95th Percentile Speed:	38	MPH				
20	0	0.00%	0.00%	0	B'-4-11-41-41-41-41-41-41-41-41-41-41-41-4					
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Spot Speed, MPH

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CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES RADAR SURVEY

LIF	ORN			KADA	IR SURVEY	,	
Street:		Rico Street	t		Direction: WBD	Comme	nts:
Between:		Larkin Stre	et & Rossi	Street		No.101	
Survey Loc	cation:						
Speed Lim	it:	25	MPH				
Date:		05/1	6/19	Day:	Thursday		
Hours:	From:	3:1	7PM	To:	3:51PM		
Weather:			Cloudy	•			
Observer(s	s):	Ch	ris & Heren	dira	•		
MPH	Frequency	Percent	Cumulative %		Data	Analysis:	
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8	0	0.00%	0.00%	Time Mean	Speed:	31.0	MPH
9	0	0.00%	0.00%	Sample Va	riance:	15.61	
10	0	0.00%	0.00%	Standard D	eviation:	4.0	
11	0	0.00%	0.00%	Variance of	f the Mean:	0.3122	
12	0	0.00%	0.00%	Standard E	rror of the Mean:	0.6	_
13	0	0.00%	0.00%	10 MPH Pa	ce:	26 To:	35 MPH
14	0	0.00%	0.00%	Percent in	Pace:	78.0%	
15	0	0.00%	0.00%	Vehicles in		39	=
16	0	0.00%	0.00%	50th Perce	ntile Speed:	31	MPH
17	0	0.00%	0.00%		ntile Speed:	35	MPH
18	0	0.00%	0.00%		ntile Speed:	36	MPH
19	0	0.00%	0.00%		ntile Speed:	37	 MPH
20	0	0.00%	0.00%		opoda:		
21	0	0.00%	0.00%		Cumulative Fr	equency Distribution	
22	0	0.00%	0.00%	110%			
23	1	2.00%	2.00%	100%			
24	1	2.00%	4.00%	ਨ 90%			
25	3	6.00%	10.00%	Cumulative Frequency 80% 80% 50% 40% 40% 30% 20%			
26	2	4.00%	14.00%	5 70%			
27	4	8.00%	22.00%	占 60%			
28	3	6.00%	28.00%	50%			
29	6	12.00%	40.00%	40%			
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35	7	14.00%	88.00%			Spot Speed MPH	
36	2	4.00%	92.00%				
37	2	4.00%	96.00%			a Diatall (I)	
38	2	4.00%	100.00%	8 —	Frequen	cy Distribution	
39	0	0.00%	100.00%				
40	0	0.00%	100.00%	7			
41	0	0.00%	100.00%	6			
42	0	0.00%	100.00%	§ 5 ■			
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45	0	0.00%	100.00%	F 3			
46	0	0.00%	100.00%	2			
47	0	0.00%	100.00%	1			
48	0	0.00%	100.00%				
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51	0	0.00%	100.00%		;	Spot Speed, MPH	
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Totals:	อบ	100.00%					



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51 Totals: 0.00%

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Spot Speed, MPH

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CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES DADAD SIIDVEV

ALI	FORM			RAD	AR S	URVEY	/		
Street:		Rico Stree	t		Direction	on: EBD	Comm	ents:	
Between:			et & Rossi	Street	_		No.101		
Survey Lo	cation:						1		
Speed Lin		25	MPH				1		
Date:		05/	6/19	Day:	7	Thursday			
Hours:	From:		7PM	To:		3:51PM	1		
Weather:			Cloudy	_			1		
Observer(s):	Ch	ris & Heren	dira	_				
			Cumulative						
MPH	Frequency	Percent	%			Data	Analysis:		
7	0	0.00%	0.00%	1					
8	0	0.00%	0.00%	Time Mea	an Speed:		31.6	MPH	
9	0	0.00%	0.00%	Sample \			31.80	_	
10	0	0.00%	0.00%	Standard	Deviation	n:	5.6		
11	0	0.00%	0.00%	Variance	of the Me	an:	0.6360		
12	0	0.00%	0.00%	Standard	Error of	the Mean:	0.8	_	
13	0	0.00%	0.00%	10 MPH F	Pace:		28 To:	37	MPI
14	0	0.00%	0.00%	Percent i	n Pace:		68.0%		
15	0	0.00%	0.00%	Vehicles	in Pace:		34		
16	0	0.00%	0.00%	50th Perc	entile Sp	eed:	32	MPH	
17	0	0.00%	0.00%	85th Perc	entile Sp	eed:	37	MPH	
18	0	0.00%	0.00%	90th Perc	centile Sp	eed:	37	MPH	
19	0	0.00%	0.00%	95th Perc	entile Sp	eed:	41	MPH	
20	0	0.00%	0.00%						
21	1	2.00%	2.00%	1		Cumulative F	requency Distribution		
22	1	2.00%	4.00%	110					
23	1	2.00%	6.00%	100					
24	3	6.00%	12.00%	Cumulative Frequency 60 80 90 90 90 90 90 90 90 90 90 90 90 90 90					
25	3	6.00%	18.00%	le 80 70					
26	1	2.00%	20.00%	Jee 60					
27	1	2.00%	22.00%	9 50					
28	4	8.00%	30.00%	1 <u>at</u> 40					
29	3	6.00%	36.00%	30					
30	2	4.00%	40.00%	ى 20					
31	1	2.00%	42.00%	10					
32	9	18.00%	60.00%		%				
33	3	6.00%	66.00%	1	1 0	13 10 10 VS	15 18 3 3 3 3 3	NO NO NO	100
34	3	6.00%	72.00%				Spot Speed MPH		
35	4	8.00%	80.00%	1			opot opeca mi ii		
36	2	4.00%	84.00%						
37	3	6.00%	90.00%	1		Frequer	ncy Distribution		
38	1	2.00%	92.00%	10 -		•	-		
39	1	2.00%	94.00%	9 -					
40	0	0.00%	94.00%	8 -					
41	2	4.00%	98.00%	7 -					
42	0	0.00%	98.00%	ြည် 6 −					
43	0	0.00%	98.00%	 5 -					
44	0	0.00%	98.00%	Frequency					
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46	0	0.00%	98.00%	1 .					

STREET: GARNER AVENUE
BETWEEN: RIDER AVE. & WILLIAMS RD.
SURVEY DATE: 06/20/19 (EXPIRES 2024)



COMMENTS:

This segment of Garner Avenue is classified as a minor arterial in the City of Salinas General Plan. The surrounding land use includes residential areas and a school. Speed data collected June 20, 2019 revealed the 85th percentile speed of 32 mph. The 10 mph pace ranges from 23 mph to 32 mph and suggests the 85th percentile is within this range. Based on the surrounding land use, and the 10 mph pace range, and the prevailing speeds rounded down and reduced by 5 mph per MUTCD option 1, the speed limit of 25 mph should be posted.

AREA	DESCRIPTION	MAP SYMBOL
Distance	Approximately 5,100 Feet	
Vertical Alignment	Flat	ALL WAY STOP
Street Width	42 Feet	SIGNAL
No. Lanes and Median	2-Lane Minor Arterial	
Existing Speed Zone	32 MPH	SPEED SIGN
Proposed Speed Zone	25 MPH	CITY LIMITS
Traffic Volume (Date)	7,520	CROSSWALK
Accident Data (2 years)	19 Collisions (2017 - 2018)	
Street Segment Collision Rate = (Collisions) (1,000,000) (Years) (365) (ADT) (Length in Miles)	3.58 Acc./MVM	SCHOOL CROSSWALK



DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES RADAR SURVEY

Street:		Garner Avenue		Direction:	WBD/EBD		Comments:
Between:		Rider Avenue & Willian	ns Road			No. 97	
Survey Loc	ation:	Sunrise Steet & Mar St	reet				
Speed Limi	t:	25 MPH				1	
Date:		06/20/19	Day:	Thu	rsday		
Hours:	From:	159	To:	2	27		
Weather:		Overcast				1	

Observer(s): Chris B. & Victor C.

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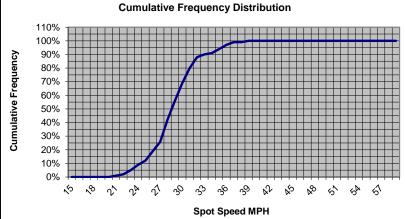
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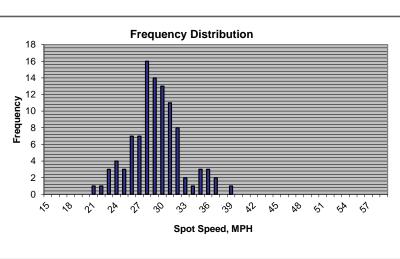
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MPH	Frequency	Percent	Cumulative %	Data Analysis:					
15	0	0.00%	0.00%						
16	0	0.00%	0.00%	Time Mean Speed:	29.	2	MPH		
17	0	0.00%	0.00%	Sample Variance:	11.5	52			
18	0	0.00%	0.00%	Standard Deviation:	3.4	4			
19	0	0.00%	0.00%	Variance of the Mean:	0.11	52			
20	0	0.00%	0.00%	Standard Error of the Mean:	0.3	3			
21	1	1.00%	1.00%	10 MPH Pace:	23	To:	32	MPH	
22	1	1.00%	2.00%	Percent in Pace:	86.0)%			
23	3	3.00%	5.00%	Vehicles in Pace:	86	6	<u></u>		
24	4	4.00%	9.00%	50th Percentile Speed:	29)	MPH		
25	3	3.00%	12.00%	85th Percentile Speed:	32	2	MPH		
26	7	7.00%	19.00%	90th Percentile Speed:	33	3	MPH		
27	7	7.00%	26.00%	95th Percentile Speed:	36	; ;	MPH		
28	16	16.00%	42.00%						







DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES RADAR SURVEY

Street:	Garner Avenue	Direction:	WBD		Comments:
Between:	Rider Avenue & Williams Road			No. 97	
Survey Location:	Sunrise Steet & Mar Street				
Speed Limit:	25 MPH				
I					

 Date:
 06/20/19
 Day:
 Thursday

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 To:
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Weather: Overcast
Observer(s): Chris B. & Victor C.

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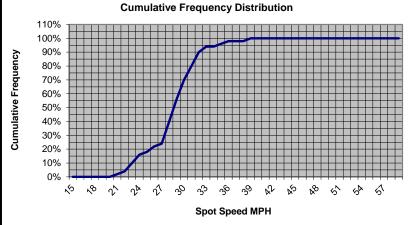
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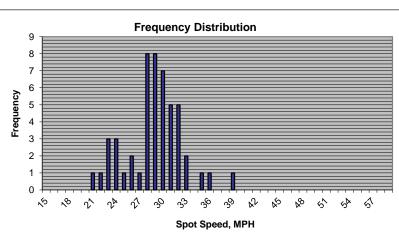
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Totals

MPH	Frequency	Percent	Cumulative %	Data Analysis:					
15	0	0.00%	0.00%		•				
16	0	0.00%	0.00%	Time Mean Speed:	28.9		MPH		
17	0	0.00%	0.00%	Sample Variance:	12.87	,	_		
18	0	0.00%	0.00%	Standard Deviation:	3.6				
19	0	0.00%	0.00%	Variance of the Mean:	0.257	4	_		
20	0	0.00%	0.00%	Standard Error of the Mean:	0.5		_		
21	1	2.00%	2.00%	10 MPH Pace:	23	To:	32	MPH	
22	1	2.00%	4.00%	Percent in Pace:	86.0%	, 0			
23	3	6.00%	10.00%	Vehicles in Pace:	43				
24	3	6.00%	16.00%	50th Percentile Speed:	29		MPH		
25	1	2.00%	18.00%	85th Percentile Speed:	32		MPH		
26	2	4.00%	22.00%	90th Percentile Speed:	32		MPH		
27	1	2.00%	24.00%	95th Percentile Speed:	35		MPH		
28	8	16.00%	40 00%						







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Totals:

CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES RADAR SURVEY

Street:			Direction:	EBD		Comments:	
Between: R		Rider Avenue & Williams Road		<u> </u>		No. 97	
Survey Lo	cation:	Sunrise Steet & Mar					
Speed Lin	nit:	25 MPH					
Date:		06/20/19	Day:	Thu	rsday		
Hours:	From:	159	To:	2	27		

Weather: Overcast

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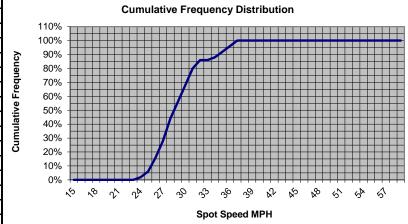
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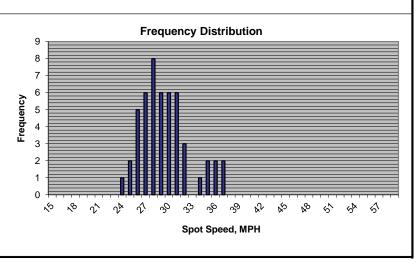
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Observer(s): Chris B. & Victor C.

MPH	Frequency	Percent	%	Data Analysis:					
15	0	0.00%	0.00%						
16	0	0.00%	0.00%	Time Mean Speed:	29.5	MPH			
17	0	0.00%	0.00%	Sample Variance:	10.21				
18	0	0.00%	0.00%	Standard Deviation:	3.2				
19	0	0.00%	0.00%	Variance of the Mean:	0.2042				
20	0	0.00%	0.00%	Standard Error of the Mean:	0.5				
21	0	0.00%	0.00%	10 MPH Pace:	23	To: 32	MPH		
22	0	0.00%	0.00%	Percent in Pace:	86.0%		<u> </u>		
23	0	0.00%	0.00%	Vehicles in Pace:	43				
24	1	2.00%	2.00%	50th Percentile Speed:	29	MPH			
25	2	4.00%	6.00%	85th Percentile Speed:	32	MPH			
26	5	10.00%	16.00%	90th Percentile Speed:	35	MPH			
27	6	12.00%	28.00%	95th Percentile Speed:	36	MPH			
28	8	16.00%	44.00%	Computative Fr	anuanau Diatribut				





STREET: WORK STREET

BETWEEN: EAST ALISAL ST. & S. SANBORN RD.

SURVEY DATE: 06/05/19 (EXPIRES 2024)





COMMENTS:

This segment of Work Street is classified as a minor arterial in the City of Salinas General Plan. The surrounding land use includes retail and industrial areas. Speed data collected June 05, 2019 revealed the 85th percentile speed of 42 mph. The 10 mph pace ranges from 32 mph to 41 mph and suggests the 85th percentile is within this range. Based on the surrounding land use, and the 10 mph pace range, and the prevailing speeds rounded up and reduced by 5 mph per MUTCD option 2, the existing posted speed limit of 35 mph should be retained.

AREA	DESCRIPTION	MAP SYMBOL
Distance	Approximately 6,300 Feet	
Vertical Alignment	Flat	ALL WAY STOP
Street Width	Varies (60 to 85 Feet)	SIGNAL
No. Lanes and Median	4-Lane Minor Arterial	
Existing Speed Zone	35 MPH	SPEED SIGN
35 th Percentile Speed	42 MPH	CITY LIMITS
raffic Volume (Date)	6,950	CROSSWALK
Accident Data (2 years)	3 Collisions (2017 - 2018)	
Street Segment Collision Rate = (Collisions) (1,000,000) (Years) (365) (ADT) (Length in Miles)	0.49 Acc./MVM	SCHOOL CROSSWALK



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Totals

CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES RADAR SURVEY

Direction: NBD/SBD Comments: Street: **Work Street** East Alisal & Sanborn Road Between: No. 88 Survey Location: John Street & Sanborn Road Speed Limit: 35 MPH Date: 06/05/19 Day: Wednesday 1:30PM 1:53PM Hours: From: To:

Weather: Sunny

31.00%

35.00%

42.00%

48.00%

59.00%

67.00%

76.00%

81.00%

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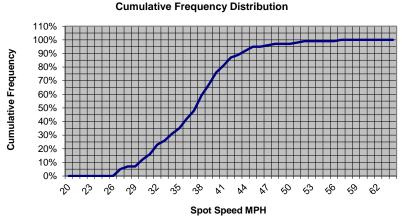
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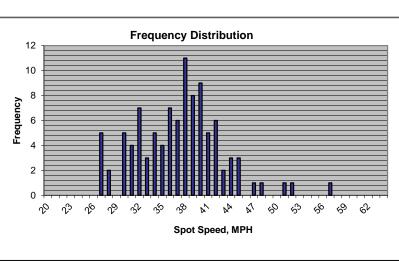
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Observer(s): Daniel E. & Victor C.

MPH	Frequency	Percent	Cumulative %		Data Analysis:					
20	0	0.00%	0.00%		•					
21	0	0.00%	0.00%	Time Mean Speed:	37.	3	MPH			
22	0	0.00%	0.00%	Sample Variance:	31.7	73				
23	0	0.00%	0.00%	Standard Deviation:	5.6	6	_			
24	0	0.00%	0.00%	Variance of the Mean:	0.3173 0.6					
25	0	0.00%	0.00%	Standard Error of the Mean:						
26	0	0.00%	0.00%	10 MPH Pace:	32	To:	41	MPH		
27	5	5.00%	5.00%	Percent in Pace:	65.0	%				
28	2	2.00%	7.00%	Vehicles in Pace:	65	i	_			
29	0	0.00%	7.00%	50th Percentile Speed:	38	}	MPH			
30	5	5.00%	12.00%	85th Percentile Speed:	42		MPH			
31	4	4.00%	16.00%	90th Percentile Speed:	44		MPH			
32	7	7.00%	23.00%	95th Percentile Speed:	46	i	MPH			
33	3	3.00%	26.00%			_				







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CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES RADAR SURVEY

Street:		Work Street		Direction: NBD		Comments:	
Between:		East Alisal & Sanbor	n Road		No. 88		
Survey Lo	cation:	John Street & Sanbo	rn Road				
Speed Lin	nit:	35 MPH					
Date:		06/05/19	Day:	Wednesday			
Hours:	From:	1:30PM	To:	1:53PM			

Weather: Sunny

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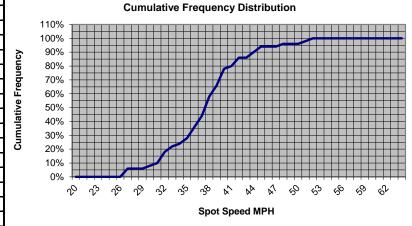
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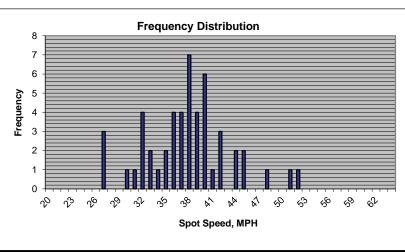
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Observer(s): Daniel E. & Victor C.

MPH	Frequency	Percent	Cumulative %		Data Analysis:					
20	0	0.00%	0.00%							
21	0	0.00%	0.00%	Time Mean Speed:	37.8	3	MPH			
22	0	0.00%	0.00%	Sample Variance:	29.4	3	<u></u>			
23	0	0.00%	0.00%	Standard Deviation:	5.4		<u></u>			
24	0	0.00%	0.00%	Variance of the Mean:	0.588	36	<u></u>			
25	0	0.00%	0.00%	Standard Error of the Mean:	0.8					
26	0	0.00%	0.00%	10 MPH Pace:	31	To:	40	MPH		
27	3	6.00%	6.00%	Percent in Pace:	70.0	%				
28	0	0.00%	6.00%	Vehicles in Pace:	35					
29	0	0.00%	6.00%	50th Percentile Speed:	38		MPH			
30	1	2.00%	8.00%	85th Percentile Speed:	42		MPH			
31	1	2.00%	10.00%	90th Percentile Speed:	44		MPH			
32	4	8.00%	18.00%	95th Percentile Speed:	48		MPH			
33	2	4.00%	22.00%							







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Totals

CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES RADAR SURVEY

Street:	Work Street	Direction:	SBD		Comments:
Between:	East Alisal & Sanborn Road	_		No. 88	
Survey Location:	John Street & Sanborn Road				

Speed Limit: 35 MPH Date: 06/05/19 Day:

Wednesday 1:53PM Hours: From: 1:30PM To:

Weather: Sunny

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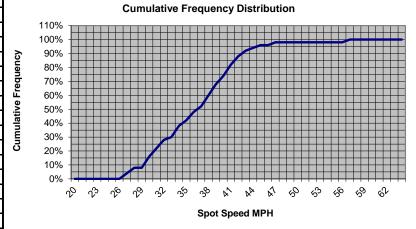
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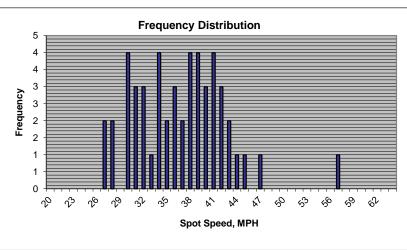
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Observer(s): Daniel E. & Victor C.

MPH	Frequency	Percent	Cumulative %		Data Analysis:					
20	0	0.00%	0.00%		•					
21	0	0.00%	0.00%	Time Mean Speed:	36	.7	MPH			
22	0	0.00%	0.00%	Sample Variance:	34.	11	_			
23	0	0.00%	0.00%	Standard Deviation:	5.8	8	_			
24	0	0.00%	0.00%	Variance of the Mean:	0.68	22	_			
25	0	0.00%	0.00%	Standard Error of the Mean:	0.8	8	_			
26	0	0.00%	0.00%	10 MPH Pace:	34	To:	43	MPH		
27	2	4.00%	4.00%	Percent in Pace:	62.0)%				
28	2	4.00%	8.00%	Vehicles in Pace:	3′					
29	0	0.00%	8.00%	50th Percentile Speed:	37	7	MPH			
30	4	8.00%	16.00%	85th Percentile Speed:	42	2	MPH			
31	3	6.00%	22.00%	90th Percentile Speed:	43	3	MPH			
32	3	6.00%	28.00%	95th Percentile Speed:	45	5	MPH			
33	1	2 00%	30.00%							





CITY OF SALINAS
DEVELOPMENT & ENGINEERING SERVICES
TRAFFIC SURVEY

STREET: **SKYWAY BOULEVARD**BETWEEN: **AIRPORT BLVD. & E. ALISAL ST.**

SURVEY DATE: **05/16/19 (EXPIRES 2024)**



COMMENTS:

This segment of Skyway Boulevard is classified as a minor arterial in the City of Salinas General Plan. The surrounding land use is public/semipublic uses. Speed data was collected May 16, 2019 revealed the 85th-percentile speed of 47 mph. The 10 mph pace ranges from 37 mph to 46 mph and suggests the 85th percentile is above 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 in compliance with CVC Sections 627 and 22358.5, the existing posted speed limit of 35 mph should be increased to 40 mph.

AREA	DESCRIPTION	MAP SYMBOL
Distance	Approximately 2,950 Feet	
Vertical Alignment	Flat	ALL WAY STOP
Street Width	63 Feet	SIGNAL
No. Lanes and Median	4-Lane Minor Arterial	<u> </u>
Proposing Speed Zone	35 MPH	SPEED SIGN
85 th Percentile Speed	40 MPH	CITY LIMITS
Traffic Volume (Date)	12,450	CROSSWALK
Accident Data (2 years)	2 Collisions (2017 - 2018)	
Street Segment Collision Rate = (Collisions) (1,000,000) (Years) (365) (ADT) (Length in Miles)	0.39 Acc./MVM	SCHOOL CROSSWALK

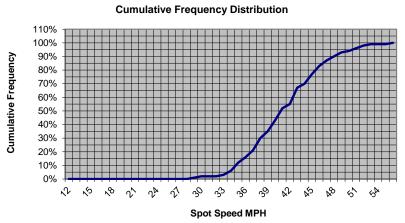


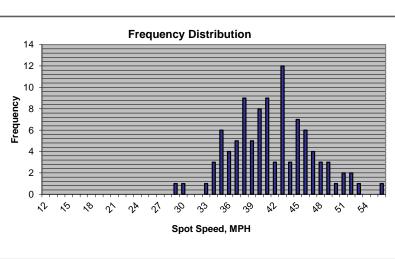
DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES RADAR SURVEY

Street:	Skyway Boulevard		Direction:	EBD/WBD		Comments:
Between:	Mortensen Avenue & A	lisal Stree	et		No.87	
Survey Location:					1	
Speed Limit:	35 MPH				1	
Date:	05/16/19	Day:	Thu	rsday		
Hours: From	: 2:43PM	To:	3:0	2PM	1	
Weather:	Cloudy				1	

Observer(s): Chris & Herendira

MPH	Frequency	Percent	Cumulative %	Data Analysis:					
12	0	0.00%	0.00%						
13	0	0.00%	0.00%	Time Mean Speed:	41.7		MPH		
14	0	0.00%	0.00%	Sample Variance:	26.77	7	_		
15	0	0.00%	0.00%	Standard Deviation:	5.2		<u> </u>		
16	0	0.00%	0.00%	Variance of the Mean:	0.267	7	_		
17	0	0.00%	0.00%	Standard Error of the Mean:	0.5		_		
18	0	0.00%	0.00%	10 MPH Pace:	37	To:	46	MPH	
19	0	0.00%	0.00%	Percent in Pace:	67.0%	6			
20	0	0.00%	0.00%	Vehicles in Pace:	67		<u></u>		
21	0	0.00%	0.00%	50th Percentile Speed:	41		MPH		
22	0	0.00%	0.00%	85th Percentile Speed:	47		MPH		
23	0	0.00%	0.00%	90th Percentile Speed:	48		MPH		
24	0	0.00%	0.00%	95th Percentile Speed:	51		MPH		
25	0	0.00%	0.00%	_					





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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	1	1.00%	1.00%
30	1	1.00%	2.00%
31	0	0.00%	2.00%
32	0	0.00%	2.00%
33	1	1.00%	3.00%
34	3	3.00%	6.00%
35	6	6.00%	12.00%
36	4	4.00%	16.00%
37	5	5.00%	21.00%
38	9	9.00%	30.00%
39	5	5.00%	35.00%
40	8	8.00%	43.00%
41	9	9.00%	52.00%
42	3	3.00%	55.00%
43	12	12.00%	67.00%
44	3	3.00%	70.00%
45	7	7.00%	77.00%
46	6	6.00%	83.00%
47	4	4.00%	87.00%
48	3	3.00%	90.00%
49	3	3.00%	93.00%
50	1	1.00%	94.00%
51	2	2.00%	96.00%
52	2	2.00%	98.00%
53	1	1.00%	99.00%
54	0	0.00%	99.00%
55	0	0.00%	99.00%
56	1	1.00%	100.00%
Totals:	100	100.00%	



DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES RADAR SURVEY

Street:		Skyway Boulevard		Direction: EBD		Comments:
Between:		Mortensen Avenue & A	Alisal Stre	et	No.87	
Survey Loc	ation:					
Speed Limi	t:	35 MPH				
Date:		05/16/19	Day:	Thursday		
Hours:	From:	2:43PM	To:	3:02PM		
Weather:		Cloudy				

Observer(s): Chris & Herendira

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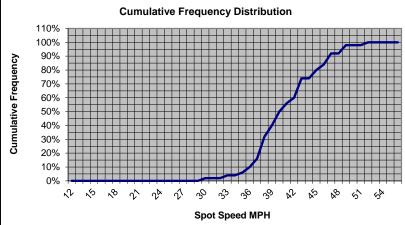
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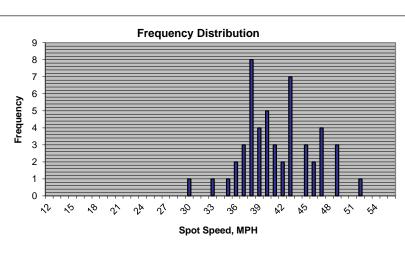
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MPH	Frequency	Percent	Cumulative %		Analysis:	•		
12	0	0.00%	0.00%					
13	0	0.00%	0.00%	Time Mean Speed:	41.3	3	MPH	
14	0	0.00%	0.00%	Sample Variance:	20.2	8		
15	0	0.00%	0.00%	Standard Deviation:	4.5	l		
16	0	0.00%	0.00%	Variance of the Mean:	0.40	56		
17	0	0.00%	0.00%	Standard Error of the Mean:	0.6			
18	0	0.00%	0.00%	10 MPH Pace:	38	To:	47	MPH
19	0	0.00%	0.00%	Percent in Pace:	76.0	%		
20	0	0.00%	0.00%	Vehicles in Pace:	38		_	
21	0	0.00%	0.00%	50th Percentile Speed:	40		MPH	
22	0	0.00%	0.00%	85th Percentile Speed:	47		MPH	
23	0	0.00%	0.00%	90th Percentile Speed:	47		MPH	
24	0	0.00%	0.00%	95th Percentile Speed:	49		MPH	
25	0	0.00%	0.00%					







DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES RADAR SURVEY

Street:		Skyway Boulevard		Direction: WBD		Comments:	
Between:		Mortensen Avenue	& Alisal Stre	eet	No.87		
Survey Loc	ation:	-					
Speed Limi	it:	35 MPH					
Date:		05/16/19	Day:	Thursday			
Hours:	From:	2:43PM	To:	3:02PM			
Woothor:		Cloud		-			

Observer(s): Chris & Herendira

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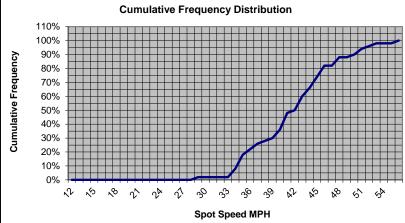
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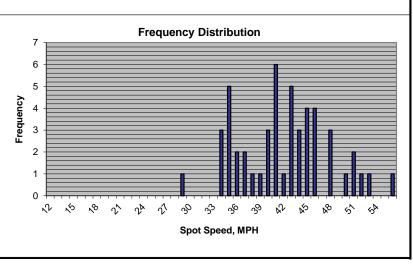
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MPH	Frequency	Percent	Cumulative %		Analysis	•		
12	0	0.00%	0.00%					
13	0	0.00%	0.00%	Time Mean Speed:	42.	1	MPH	
14	0	0.00%	0.00%	Sample Variance:	33.4	14		
15	0	0.00%	0.00%	Standard Deviation:	5.8	3		
16	0	0.00%	0.00%	Variance of the Mean:	0.66	88		
17	0	0.00%	0.00%	Standard Error of the Mean:	3.0	3		
18	0	0.00%	0.00%	10 MPH Pace:	37	To:	46	MPH
19	0	0.00%	0.00%	Percent in Pace:	60.0	%		
20	0	0.00%	0.00%	Vehicles in Pace:	30)	<u> </u>	
21	0	0.00%	0.00%	50th Percentile Speed:	42	1	MPH	
22	0	0.00%	0.00%	85th Percentile Speed:	48	}	MPH	
23	0	0.00%	0.00%	90th Percentile Speed:	50)	MPH	
24	0	0.00%	0.00%	95th Percentile Speed:	52		MPH	
25	0	0.00%	0.00%					



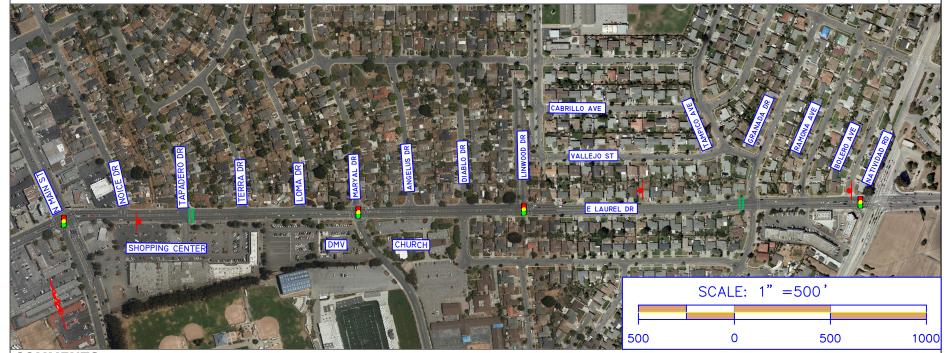


STREET: EAST LAUREL DRIVE

BETWEEN: NORTH MAIN ST. & NATIVIDAD RD.

SURVEY DATE: **05/28/19 (EXPIRES IN 2024)**





COMMENTS:

This segment of East Laurel Drive is classified as a major arterial in the City of Salinas General Plan. The surrounding land use includes residential homes, retail and office areas and a school. Speed data collected May 28, 2019 revealed the 85th percentile speed of 40 mph. The 10 mph pace ranges from 32 mph to 41 mph and suggests the 85th percentile is within this range. Based on the surrounding land use, and the 10 mph pace range, and the prevailing speeds rounded up and reduced by 5 mph per MUTCD option 2, the existing posted speed limit of 35 mph should be retained.

AREA	DESCRIPTION	MAP SYMBOL
Distance	Approximately 4,100 Feet	
Vertical Alignment	Flat	ALL WAY STOP
Street Width	60 Feet	SIGNAL
No. Lanes and Median	4-Lane Major Arterial	M
Existing Speed Zone	35 MPH	SPEED SIGN
85 th Percentile Speed	40 MPH	CITY LIMITS
Traffic Volume (Date)	21,199	CROSSWALK
Accident Data (2 years)	11 Collisions (2017 - 2018)	
Street Segment Collision Rate = (Collisions) (1,000,000) (Years) (365) (ADT) (Length in Miles)	0.90 Acc./MVM	SCHOOL CROSSWALK



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CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES RADAR SURVEY

Street: East Laurel Drive Direction: WBD/EBD Comments:
Between: North Main Street & Natividad Road No. 83
Survey Location: Granada Avenue & Linwood Drive

Speed Limit: 35 MPH

 Date:
 05/28/19
 Day:
 Tuesday

 Hours:
 From:
 1:58PM
 To:
 2:13PM

 Weather:
 Sunny

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Weather: Sunny
Observer(s): Alejandro B. & Victor C.

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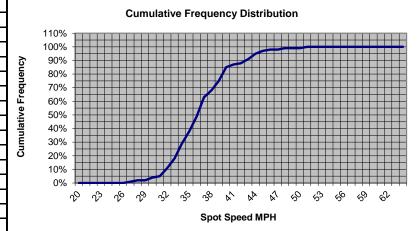
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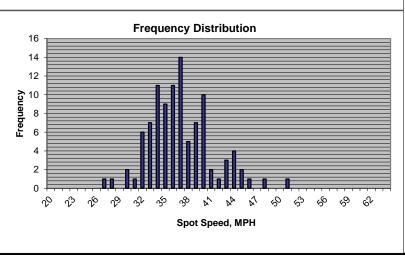
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MPH	Frequency	Percent	Cumulative %		Analysis:			
20	0	0.00%	0.00%					
21	0	0.00%	0.00%	Time Mean Speed:	37.	0	MPH	
22	0	0.00%	0.00%	Sample Variance:	17.5	0		
23	0	0.00%	0.00%	Standard Deviation:	4.2)	<u> </u>	
24	0	0.00%	0.00%	Variance of the Mean:	0.17	50	<u> </u>	
25	0	0.00%	0.00%	Standard Error of the Mean:	0.4	ļ.	<u> </u>	
26	0	0.00%	0.00%	10 MPH Pace:	32	To:	41	MPH
27	1	1.00%	1.00%	Percent in Pace:	82.0	%		
28	1	1.00%	2.00%	Vehicles in Pace:	82		<u></u>	
29	0	0.00%	2.00%	50th Percentile Speed:	37		MPH	
30	2	2.00%	4.00%	85th Percentile Speed:	40		MPH	
31	1	1.00%	5.00%	90th Percentile Speed:	43		MPH	
32	6	6.00%	11.00%	95th Percentile Speed:	44		MPH	
33	7	7.00%	18.00%		5 1			







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Totals

CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES RADAR SURVEY

Street:		East Laurel Drive	Ī	Direction: WE	BD		Comments:
Between:		North Main Street &	Natividad Roa	d		No. 83	
Survey Lo	cation:	Granada Avenue & L	inwood Drive				
Speed Lim	nit:	35 MPH					
Date:		05/28/19	Day:	Tuesda	ay		
Hours:	From:	1:58PM	To:	2:13PN	V		

Weather: Sunny

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Observer(s): Alejandro B. & Victor C.

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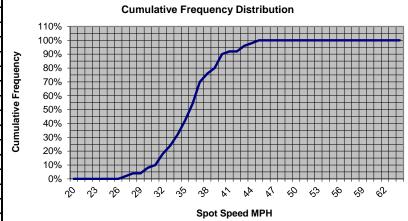
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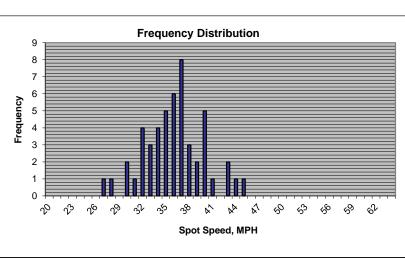
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	MPH	Frequency	Percent	Cumulative %		Analysis	•		
ľ	20	0	0.00%	0.00%		•			
ſ	21	0	0.00%	0.00%	Time Mean Speed:	36.	1	MPH	
ſ	22	0	0.00%	0.00%	Sample Variance:	15.1	0	<u> </u>	
ſ	23	0	0.00%	0.00%	Standard Deviation:	3.9			
ſ	24	0	0.00%	0.00%	Variance of the Mean:	0.30	20	<u> </u>	
ſ	25	0	0.00%	0.00%	Standard Error of the Mean:	0.5	j		
ſ	26	0	0.00%	0.00%	10 MPH Pace:	31	To:	40	MPH
	27	1	2.00%	2.00%	Percent in Pace:	82.0	%		
	28	1	2.00%	4.00%	Vehicles in Pace:	41		<u> </u>	
	29	0	0.00%	4.00%	50th Percentile Speed:	36		MPH	
	30	2	4.00%	8.00%	85th Percentile Speed:	40		MPH	
	31	1	2.00%	10.00%	90th Percentile Speed:	40		MPH	
ſ	32	4	8.00%	18.00%	95th Percentile Speed:	43		MPH	
ſ	33	3	6.00%	24 00%					







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CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES RADAR SURVEY

Ctroot.		Foot Lourel Drive	F	irection: EBD	I	Commente	_
Street:		East Laurel Drive		irection: EBD		Comments:	
Between:		North Main Street & N	Natividad Road	l	No. 83		
Survey Lo	cation:	Granada Avenue & Li	nwood Drive				
Speed Lin	nit:	35 MPH					
Date:		05/28/19	Day:	Tuesday			
Hours:	From:	1:58PM	To:	2:13PM			

Weather: Sunny

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34.00%

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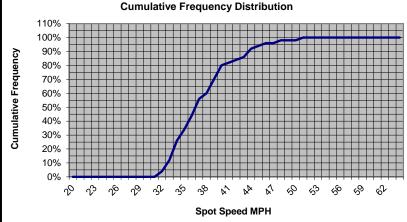
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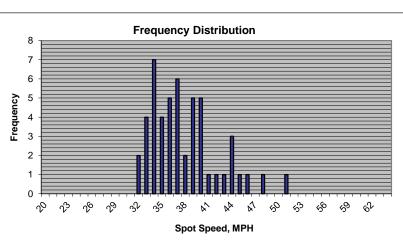
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Observer(s): Alejandro B. & Victor C.

MPH	Frequency	Percent	Cumulative %		Analysis	:		
20	0	0.00%	0.00%					
21	0	0.00%	0.00%	Time Mean Speed:	37	.9	MPH	
22	0	0.00%	0.00%	Sample Variance:	18.	58	<u> </u>	
23	0	0.00%	0.00%	Standard Deviation:	4.3	3		
24	0	0.00%	0.00%	Variance of the Mean:	0.37	'16	<u> </u>	
25	0	0.00%	0.00%	Standard Error of the Mean:	0.0	6	<u> </u>	
26	0	0.00%	0.00%	10 MPH Pace:	32	To:	41	MPH
27	0	0.00%	0.00%	Percent in Pace:	82.0)%		
28	0	0.00%	0.00%	Vehicles in Pace:	4	1	<u> </u>	
29	0	0.00%	0.00%	50th Percentile Speed:	37	7	MPH	
30	0	0.00%	0.00%	85th Percentile Speed:	43	3	MPH	
31	0	0.00%	0.00%	90th Percentile Speed:	44	4	MPH	
32	2	4.00%	4.00%	95th Percentile Speed:	40	6	MPH	
33	4	8.00%	12.00%		•		•	





CITY OF SALINAS
DEVELOPMENT & ENGINEERING SERVICES
TRAFFIC SURVEY

STREET: FRONT STREET

BETWEEN: E. MARKET ST. & JOHN ST. SURVEY DATE: 06/05/19 (EXPIRES IN 2024)



COMMENTS:

This segment of Front Street is classified as a major arterial in the City of Salinas General Plan. The surrounding land use includes industrial, and retail areas. Speed data collected June 5, 2019 revealed the 85th percentile speed of 35 mph. The 10 mph pace ranges from 26 mph to 35 mph and suggests the 85th percentile is within this range. Based on the surrounding land use, and the 10 mph pace range, and the prevailing speeds rounded up and reduced by 5 mph per MUTCD option 2, the speed limit of 30 mph should be posted.

AREA	DESCRIPTION	MAP SYMBOL
Distance	Approximately 3,770 Feet	
Vertical Alignment	Flat	ALL WAY STOP
Street Width	85 Feet	SIGNAL
No. Lanes and Median	4-Lane Major Arterial	H
Proposing Speed Zone	30 MPH	SPEED SIGN
85 th Percentile Speed	35 MPH	CITY LIMITS
Traffic Volume (Date)	15,050	CROSSWALK
Accident Data (2 years)	4 Collisions (2017 - 2018)	
Street Segment Collision Rate = (Collisions) (1,000,000) (Years) (365) (ADT) (Length in Miles)	0.51 Acc./MVM	SCHOOL CROSSWALK
(Teals) (303) (ADT) (Letigut iii Willes)		



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Totals

CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES RADAR SURVEY

Street:		Front Stre	et		Direction:	NBD		Comments:	
Between:		East Mark	et Street &	John Street	•		No. 82		
Survey Locat	ion:	Alisal Stre	et & San L	uis Street					
Speed Limit:		25	MPH						
Date:		06/	0 5/19	Day:	Wedr	esday			
Hours:	From:	12.	20PM	_ To:	12./	0PM			

Weather: Sunny

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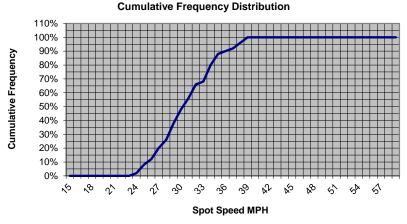
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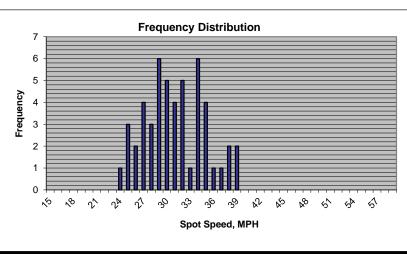
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Observer(s): Daniel E. & Victor C.

MPH	Frequency	Percent	Cumulative %		Analysis:		
15	0	0.00%	0.00%				
16	0	0.00%	0.00%	Time Mean Speed:	31.1	MPH	
17	0	0.00%	0.00%	Sample Variance:	15.11		
18	0	0.00%	0.00%	Standard Deviation:	3.9		
19	0	0.00%	0.00%	Variance of the Mean:	0.3022		
20	0	0.00%	0.00%	Standard Error of the Mean:	0.5		
21	0	0.00%	0.00%	10 MPH Pace:	26	To: 35	MPH
22	0	0.00%	0.00%	Percent in Pace:	80.0%		
23	0	0.00%	0.00%	Vehicles in Pace:	40		
24	1	2.00%	2.00%	50th Percentile Speed:	31	MPH	
25	3	6.00%	8.00%	85th Percentile Speed:	35	MPH	
26	2	4.00%	12.00%	90th Percentile Speed:	36	MPH	
27	4	8.00%	20.00%	95th Percentile Speed:	38	MPH	
28	3	6.00%	26.00%		B 1 (11 (1		
29	6	12.00%	38.00%	Cumulative Fr	equency Distributi	ion	







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Totals

CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES RADAR SURVEY

Street:	Front Street	Direction:	SBD	Comments:
Between:	East Market Street & John Street	_		No. 82
Survey Location:	Alisal Street & San Luis Street			

Speed Limit: 25 MPH

Date: 06/05/19 Day: Wednesday 12:20PM 12:40PM Hours: From: To: Weather: Sunny

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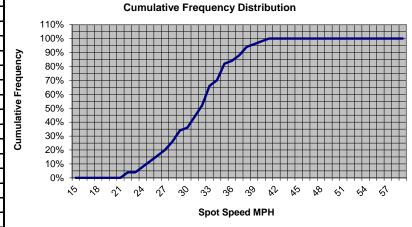
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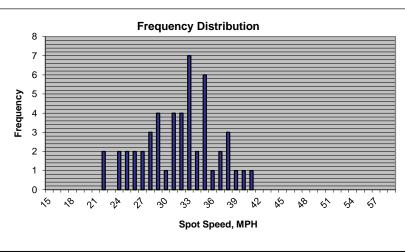
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Observer(s): Daniel E. & Victor C.

MPH	Frequency	Percent	Cumulative %		Analysis	:		
15	0	0.00%	0.00%		•			
16	0	0.00%	0.00%	Time Mean Speed:	31.	.7	MPH	
17	0	0.00%	0.00%	Sample Variance:	21.8	86		
18	0	0.00%	0.00%	Standard Deviation:	4.	7		
19	0	0.00%	0.00%	Variance of the Mean:	0.43	72		
20	0	0.00%	0.00%	Standard Error of the Mean:	0.	7		
21	0	0.00%	0.00%	10 MPH Pace:	26	To:	35	MPH
22	2	4.00%	4.00%	Percent in Pace:	70.0)%		
23	0	0.00%	4.00%	Vehicles in Pace:	35	5		
24	2	4.00%	8.00%	50th Percentile Speed:	32	2	MPH	
25	2	4.00%	12.00%	85th Percentile Speed:	37	7	MPH	
26	2	4.00%	16.00%	90th Percentile Speed:	38	3	MPH	
27	2	4.00%	20.00%	95th Percentile Speed:	39)	MPH	
28	3	6.00%	26.00%					







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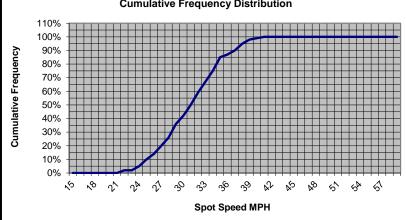
CITY OF SALINAS

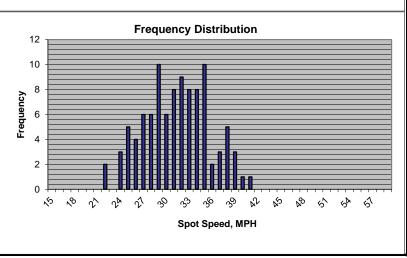
DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES RADAR SURVEY

Street:		Front Str	reet		Direction:	NBD/SBD		Comments:	
Between:		East Mar	ket Street &	John Street	_		No. 82		
Survey Loc	ation:	Alisal St	reet & San L	uis Street					
Speed Limi	t:	25	MPH				1		
Date:		06	6/0 5/19	Day:	Wedr	nesday			
Hours:	From:	12	2:20PM	To:	12:4	10PM			
Weather:			Sunny	_					

Observer(s): Daniel E. & Victor C.

MPH	Frequency	Percent	Cumulative %		Analysis	:		
15	0	0.00%	0.00%		-			
16	0	0.00%	0.00%	Time Mean Speed:	31.	.4	MPH	
17	0	0.00%	0.00%	Sample Variance:	18.	38	<u> </u>	
18	0	0.00%	0.00%	Standard Deviation:	4.3	3	<u> </u>	ŀ
19	0	0.00%	0.00%	Variance of the Mean:	0.18	38	_	ŀ
20	0	0.00%	0.00%	Standard Error of the Mean:	0.4	4	<u> </u>	
21	0	0.00%	0.00%	10 MPH Pace:	26	To:	35	MPH
22	2	2.00%	2.00%	Percent in Pace:	75.0)%		_
23	0	0.00%	2.00%	Vehicles in Pace:	7:	5	<u> </u>	ļ
24	3	3.00%	5.00%	50th Percentile Speed:	3′	1	MPH	
25	5	5.00%	10.00%	85th Percentile Speed:	35	5	MPH	
26	4	4.00%	14.00%	90th Percentile Speed:	37	7	MPH	
27	6	6.00%	20.00%	95th Percentile Speed:	38	3	MPH	
28	6	6.00%	26.00%	Communication Fron	Dietel	hti.a		
29	10	10.00%	36.00%	Cumulative Fre	equency Distri	bution		





CITY OF SALINAS DEVELOPMENT & ENGINEERING SERVICES TRAFFIC SURVEY

STREET: EAST BORONDA ROAD

BETWEEN: CONSTITUTION BLVD. & WILLIAMS RD.

SURVEY DATE: **05/22/19 (EXPIRES IN 2024)**





COMMENTS:

This segment of Boronda Road is classified as a major arterial in the City of Salinas General Plan. The surrounding land use includes backing residential homes, and retail areas. Speed data collected May 22, 2019 revealed the 85th percentile speed of 51 mph. The 10 mph pace ranges from 37 mph to 46 mph and suggests the 85th percentile is within this range. Based on the surrounding land use, and 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 45 mph should be retained.

AREA	DESCRIPTION	MAP SYMBOL
Distance	Approximately 6,707 Feet	
Vertical Alignment	Flat	ALL WAY STOP
Street Width	45 Feet	SIGNAL
No. Lanes and Median	2-Lane Major Arterial	SPEED SIGN
Existing Speed Zone 85 th Percentile Speed	45 MPH	
Traffic Volume (Date)	51 MPH 14.499	CITY LIMITS
Accident Data (2 years)	7 Collisions (2017 - 2018)	CROSSWALK
Street Segment Collision Rate = (Collisions) (1,000,000) (Years) (365) (ADT) (Length in Miles)	0.52 Acc./MVM	SCHOOL CROSSWALK



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Totals

CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES RADAR SURVEY

Direction: NBD/SBD Comments: Street: **Boronda Road** Constitution Blvd & Williams Road Between: No. 80 Survey Location: **Constitution Blvd & Rider Avenue**

Speed Limit: MPH

Date: 05/22/19 Day: Wednesday 3:31PM 3:47PM Hours: From: To: Weather: Sunny

20.00%

29.00%

40.00%

46.00%

51.00%

52.00%

59.00%

65.00%

68.00%

71.00%

79.00%

83.00%

86.00%

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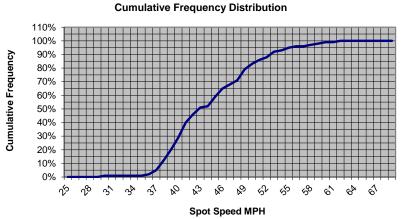
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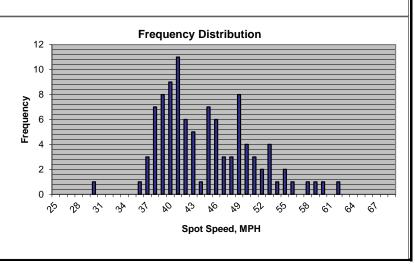
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Observer(s): Giovanni N. & Victor C.

MPH	Frequency	Percent	Cumulative %	Data Analysis:					
25	0	0.00%	0.00%						
26	0	0.00%	0.00%	Time Mean Speed:	ean Speed: 44.7				
27	0	0.00%	0.00%	Sample Variance:	36.5	0			
28	0	0.00%	0.00%	Standard Deviation:	dard Deviation: 6.0				
29	0	0.00%	0.00%	Variance of the Mean:					
30	1	1.00%	1.00%	Standard Error of the Mean: 0.6		<u> </u>			
31	0	0.00%	1.00%	10 MPH Pace:	37	To:	46	MPH	
32	0	0.00%	1.00%	Percent in Pace:	63.0	%			
33	0	0.00%	1.00%	Vehicles in Pace:	63		<u></u>		
34	0	0.00%	1.00%	50th Percentile Speed:	43		MPH		
35	0	0.00%	1.00%	35th Percentile Speed: 51 N		MPH			
36	1	1.00%	2.00%	90th Percentile Speed:	53		MPH		
37	3	3.00%	5.00%	95th Percentile Speed:	55		MPH		
38	7	7.00%	12.00%	Communication For	Di-t-il				







CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES RADAR SURVEY

Street:	Boronda Road	Direction:	NBD	Comments:
Between:	Constitution Blvd & Willia	ams Road		No. 80
Survey Location:	Constitution Blvd & Rider	r Avenue		
Speed Limit:	45 MPH			

Date: 05/22/19 Day: Wednesday Hours: 3:31PM 3:47PM From: To:

8.00%

16.00%

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26.00%

30.00%

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72.00%

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Weather: Sunny

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Observer(s): Giovanni N. & Victor C	
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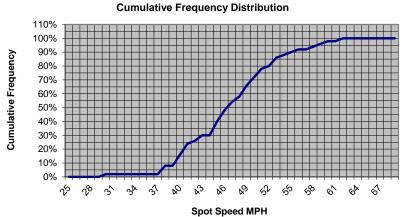
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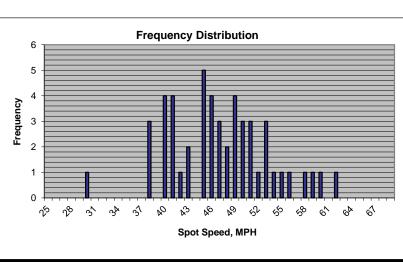
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Totals

MPH	Frequency	Percent	Cumulative %	Data Analysis:					
25	0	0.00%	0.00%		•				
26	0	0.00%	0.00%	Time Mean Speed:	47.	1	MPH		
27	0	0.00%	0.00%	Sample Variance:	41.4	45			
28	0	0.00%	0.00%	tandard Deviation: 6.4					
29	0	0.00%	0.00%	Variance of the Mean:					
30	1	2.00%	2.00%	Standard Error of the Mean: 0.9		<u> </u>			
31	0	0.00%	2.00%	10 MPH Pace:	0 MPH Pace: 40 To:		49	MPH	
32	0	0.00%	2.00%	Percent in Pace:	58.0)%			
33	0	0.00%	2.00%	Vehicles in Pace:	29)	<u></u>		
34	0	0.00%	2.00%	50th Percentile Speed:	47	7	MPH		
35	0	0.00%	2.00%	35th Percentile Speed: 53		MPH			
36	0	0.00%	2.00%	90th Percentile Speed:	55	5	MPH		
37	0	0.00%	2.00%	95th Percentile Speed:	59)	MPH		
38	3	6.00%	8.00%				•	·	







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Totals

CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES RADAR SURVEY

Street:		Boronda Road		Direction: SBD		Comments:
Between:	Between: Constitution Blvd & Williams Road				No. 80	
Survey Loc	Survey Location: Constitution Blvd & Rider Avenue					
Speed Limi	it:	45 MPH				
Date:		05/22/19	Day:	Wednesday		
Hours:	From:	3:31PM	To:	3:47PM		

Weather: Sunny

Observer(s): Giovanni N. & Victor C.

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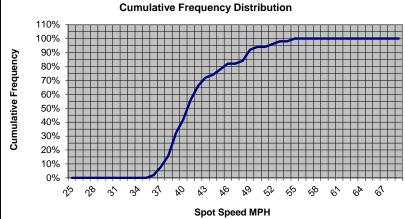
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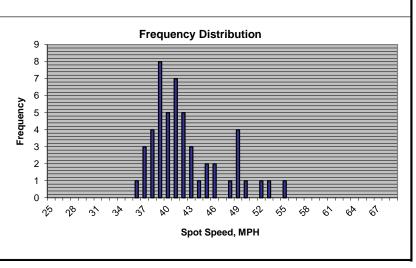
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MPH	Frequency	Percent	Cumulative %	Data Analysis:					
25	0	0.00%	0.00%						
26	0	0.00%	0.00%	Time Mean Speed: 42.3		MPH			
27	0	0.00%	0.00%	Sample Variance:	20.64	4	_		
28	0	0.00%	0.00%	Standard Deviation: 4.5		_			
29	0	0.00%	0.00%	ariance of the Mean: 0.4128		_			
30	0	0.00%	0.00%	Standard Error of the Mean: 0.6		_			
31	0	0.00%	0.00%	10 MPH Pace:	37	To:	46	MPH	
32	0	0.00%	0.00%	Percent in Pace:	80.09	6			
33	0	0.00%	0.00%	Vehicles in Pace:	40		_		
34	0	0.00%	0.00%	50th Percentile Speed:	41		MPH		
35	0	0.00%	0.00%	85th Percentile Speed:	49		MPH		
36	1	2.00%	2.00%	90th Percentile Speed:	49		MPH		
37	3	6.00%	8.00%	95th Percentile Speed:	52		MPH		
38	4	8.00%	16.00%	Q.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Dieteik				
39	8	16.00%	32.00%	Cumulative Frequency Distribution					





STREET: NORTH SANBORN ROAD
BETWEEN: E. LAUREL DR. & U.S. HWY 101
SURVEY DATE: 05/28/19 (EXPIRES IN 2024)



COMMENTS:

This segment of Sanborn Road is classified as a major arterial in the City of Salinas General Plan. The surrounding land use includes residential homes, commercial and office areas. Speed data collected May 28, 2019 revealed the 85th percentile speed of 42 mph. The 10 mph pace ranges from 33 mph to 42 mph and suggests the 85th percentile is within this range. Based on the surrounding land use, and 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 6,500 Feet	
Vertical Alignment	Flat	ALL WAY STOP
Street Width	56 Feet	SIGNAL
No. Lanes and Median	4/5-Lane Major Arterial	
Existing Speed Zone	35 MPH	SPEED SIGN
85 th Percentile Speed	42 MPH	CITY LIMITS
Traffic Volume (Date)	18,978	CROSSWALK
Accident Data (2 years)	25 Collisions (2017 - 2018)	5.335
Street Segment Collision Rate = (Collisions) (1,000,000) (Years) (365) (ADT) (Length in Miles)	1.47 Acc./MVM	SCHOOL CROSSWALK



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Totals

CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES RADAR SURVEY

Street:	Sanborn Road		Direction:	NBD/SBD		Comments:
Between:	East Laurel Drive & HWY	′ 101	_		No. 66	
Survey Location:	Circle Drive & North Mad	enue				
Speed Limit:	35 MPH					
Date:	05/28/19	Day:	Tue	sday		
Hours: From:	2:27PM	To:	2:4	2PM		
Weather:	Sunny				1	

Observer(s): Alejandro B. & Victor C.

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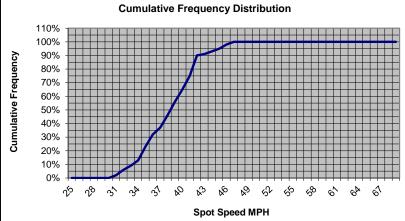
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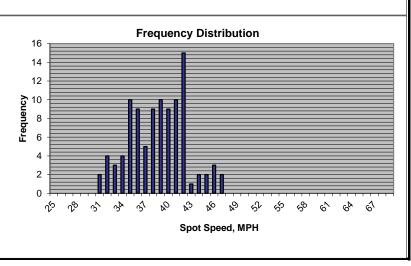
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MPH	Frequency	Percent	Cumulative %	Data Analysis:					
25	0	0.00%	0.00%						
26	0	0.00%	0.00%	Time Mean Speed:	38.	7	MPH		
27	0	0.00%	0.00%	Sample Variance:	14.0	3			
28	0	0.00%	0.00%	Standard Deviation: 3.7					
29	0	0.00%	0.00%	Variance of the Mean:					
30	0	0.00%	0.00%	Standard Error of the Mean: 0.4		_			
31	2	2.00%	2.00%	10 MPH Pace:	MPH Pace: 33 To:		42	MPH	
32	4	4.00%	6.00%	Percent in Pace:	84.0	%			
33	3	3.00%	9.00%	Vehicles in Pace:	84				
34	4	4.00%	13.00%	50th Percentile Speed:	39		MPH		
35	10	10.00%	23.00%	85th Percentile Speed: 42 M		MPH			
36	9	9.00%	32.00%	90th Percentile Speed:	42		MPH		
37	5	5.00%	37.00%	95th Percentile Speed:	45		MPH		
38	9	9.00%	46.00%	Olatin Fo	D' 4-'				







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Totals

CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES RADAR SURVEY

Street:		Sanborn Road		Direction:	NBD		Comments:	
Between:		East Laurel Drive & HWY 101				No. 66		
Survey Location:		Circle Drive & North I	nue					
Speed Lim	it:	35 MPH						
Date:		05/28/19	Day:	Tues	sday			
Hours:	From:	2:27PM	To:	2:42	PM			

Weather: Sunny

Observer(s): Alejandro B. & Victor C.

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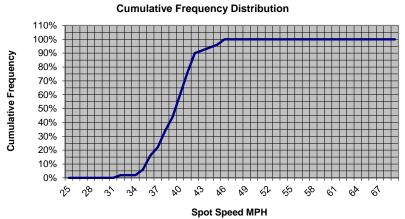
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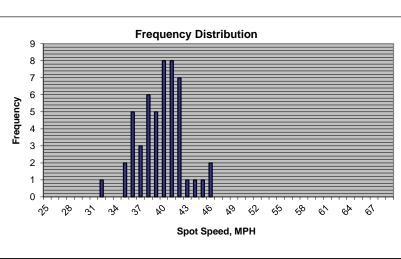
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MPH	Frequency	Percent	Cumulative %	Data Analysis:					
25	0	0.00%	0.00%		•				
26	0	0.00%	0.00%	Time Mean Speed:	39.	.6	MPH		
27	0	0.00%	0.00%	Sample Variance:	8.1	9			
28	0	0.00%	0.00%	andard Deviation: 2.9			<u> </u>		
29	0	0.00%	0.00%	ariance of the Mean: 0.1638					
30	0	0.00%	0.00%	Standard Error of the Mean:	n: 0.4		<u> </u>		
31	0	0.00%	0.00%	10 MPH Pace:	35	To:	44	MPH	
32	1	2.00%	2.00%	Percent in Pace:	92.0)%			
33	0	0.00%	2.00%	Vehicles in Pace:	46	6	<u> </u>		
34	0	0.00%	2.00%	50th Percentile Speed:	40)	MPH		
35	2	4.00%	6.00%	85th Percentile Speed:	e Speed: 42		MPH		
36	5	10.00%	16.00%	90th Percentile Speed:	42	2	MPH		
37	3	6.00%	22.00%	95th Percentile Speed:	45	5	MPH		
38	6	12.00%	34.00%						







Weather:

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CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES RADAR SURVEY

Street:	Sanborn Road	Direction: SBD	(Comments:
Between:	East Laurel Drive & HWY 101		No. 66	
Survey Location:	Circle Drive & North Madeira Ave			
Speed Limit:	35 MPH			

Date: 05/28/19 Day: **Tuesday** 2:27PM 2:42PM Hours: From: To:

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Sunny Observer(s): Alejandro B. & Victor C.

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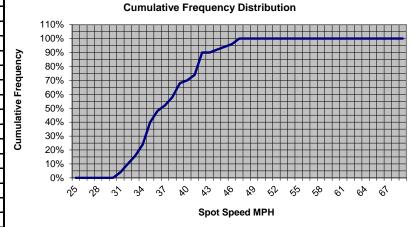
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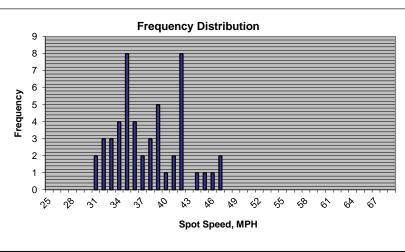
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MPH	Frequency	Percent	Cumulative %		Data Analysis:						
25	0	0.00%	0.00%								
26	0	0.00%	0.00%	Time Mean Speed:	37.7	7	MPH				
27	0	0.00%	0.00%	Sample Variance:	18.3	2					
28	0	0.00%	0.00%	Standard Deviation:	4.3						
29	0	0.00%	0.00%	Variance of the Mean:	0.366	64					
30	0	0.00%	0.00%	Standard Error of the Mean:	0.6						
31	2	4.00%	4.00%	10 MPH Pace:	33	To:	42	MPH			
32	3	6.00%	10.00%	Percent in Pace:	80.0	%					
33	3	6.00%	16.00%	Vehicles in Pace:	40						
34	4	8.00%	24.00%	50th Percentile Speed:	37		MPH				
35	8	16.00%	40.00%	85th Percentile Speed:	42		MPH				
36	4	8.00%	48.00%	90th Percentile Speed:	42		MPH				
37	2	4.00%	52.00%	95th Percentile Speed:	46		MPH				
38	3	6.00%	58.00%								





STREET: NORTH SANBORN ROAD

BETWEEN: **DEL MONTE AVE. & E. BORONDA RD.**

SURVEY DATE **05/16/19 (EXPIRES IN 2024)**





COMMENTS:

This segment of Sanborn Road is classified as a major arterial in the City of Salinas General Plan. The surrounding land use includes backing residential homes, commercial areas and a school. Speed data collected May 16, 2019 revealed the 85th percentile speed of 38 mph. The 10 mph pace ranges from 28 mph to 37 mph and suggests the 85th percentile is above this range. Based on the surrounding land use, and the 10 mph pace range, and the prevailing speeds rounded up and reduced by 5 mph per MUTCD option 2, the existing posted speed limit of 35 mph should be retained.

AREA	DESCRIPTION	MAP SYMBOL
Distance	Approximately 5,100 Feet	
Vertical Alignment	Flat	ALL WAY STOP
Street Width	Varies (64 to 86 Feet)	SIGNAL
No. Lanes and Median	4-Lane Major Arterial	
Existing Speed Zone	35 MPH	SPEED SIGN
85 th Percentile Speed	38 MPH	CITY LIMITS
Traffic Volume (Date)	12,539	CROSSWALK
Accident Data (2 years)	12 Collisions (2017 - 2018)	
Street Segment Collision Rate = (Collisions) (1,000,000) (Years) (365) (ADT) (Length in Miles)	1.35 Acc./MVM	SCHOOL CROSSWALK





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Totals

CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES RADAR SURVEY

Direction: EBD/WBD Comments: Street: Sanborn Road Del Monte Avenue & Boronda Road Between: No. 64

Survey Location: Speed Limit: 35 MPH

Date: 05/16/19 Day: **Thursday** 1:40PM 2:08PM Hours: From: To:

Weather: Cloudy

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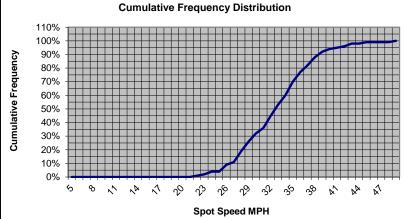
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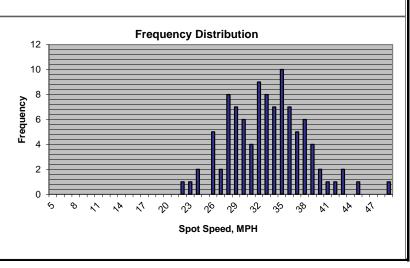
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Observer(s): Chris & Herendira

MPH	Frequency	Percent	Cumulative %		Data Analysis:					
5	0	0.00%	0.00%		•					
6	0	0.00%	0.00%	Time Mean Speed:	33.1	MPH				
7	0	0.00%	0.00%	Sample Variance:	24.41					
8	0	0.00%	0.00%	Standard Deviation:	4.9					
9	0	0.00%	0.00%	Variance of the Mean:	0.2441					
10	0	0.00%	0.00%	Standard Error of the Mean:	0.5					
11	0	0.00%	0.00%	10 MPH Pace:	28 To:	37	MPH			
12	0	0.00%	0.00%	Percent in Pace:	71.0%					
13	0	0.00%	0.00%	Vehicles in Pace:	71					
14	0	0.00%	0.00%	50th Percentile Speed:	33	MPH				
15	0	0.00%	0.00%	85th Percentile Speed:	38	MPH				
16	0	0.00%	0.00%	90th Percentile Speed:	39	MPH				
17	0	0.00%	0.00%	95th Percentile Speed:	41	MPH				
18	0	0.00%	0.00%							







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CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES RADAR SURVEY

Street:		Sanborn Road		Direction: EBD		Comments:	
Between:		Del Monte Avenue & Boronda Road			No. 64		
Survey Loca	ation:						
Speed Limit	::	35 MPH					
Date:		05/16/19	Day:	Thursday			
Hours:	From:	1:40PM	To:	2:08PM			
Weather:		Cloudy	_				

Observer(s): Chris & Herendira

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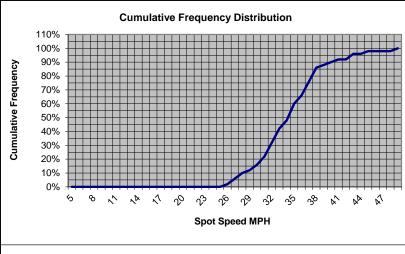
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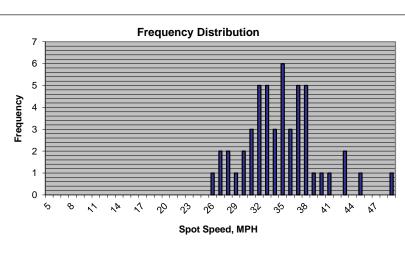
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MPH	Frequency	Percent	Cumulative %		Data Analysis:						
5	0	0.00%	0.00%								
6	0	0.00%	0.00%	Time Mean Speed:	34.	8	MPH				
7	0	0.00%	0.00%	Sample Variance:	21.9)4					
8	0	0.00%	0.00%	Standard Deviation:	4.7	7					
9	0	0.00%	0.00%	Variance of the Mean:	0.43	88					
10	0	0.00%	0.00%	Standard Error of the Mean:	0.7	7					
11	0	0.00%	0.00%	10 MPH Pace:	29	To:	38	MPH			
12	0	0.00%	0.00%	Percent in Pace:	76.0	%					
13	0	0.00%	0.00%	Vehicles in Pace:	38		<u></u>				
14	0	0.00%	0.00%	50th Percentile Speed:	35		MPH				
15	0	0.00%	0.00%	85th Percentile Speed:	38		MPH				
16	0	0.00%	0.00%	90th Percentile Speed:	40)	MPH				
17	0	0.00%	0.00%	95th Percentile Speed:	43		MPH				
18	0	0.00%	0.00%								







CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES RADAR SURVEY

Street:		Sanborn Road		Direction: WBD		Comments:	
Between:		Del Monte Avenu	ue & Boronda Ro	oad	No. 64		
Survey Loca	tion:						
Speed Limit:	:	35 MPH					
Date:		05/16/19	Day:	Thursday			
Hours:	From:	1:40PM	To:	2:08PM			
Weather:		Clo	oudy				

Observer(s): Chris & Herendira

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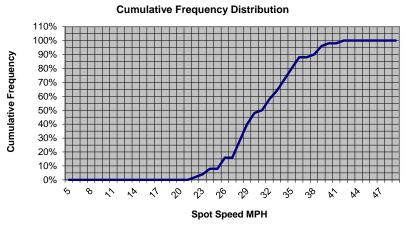
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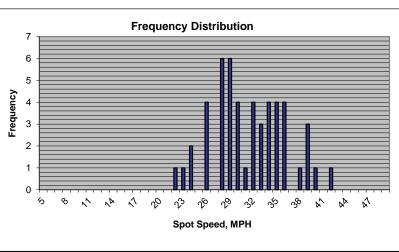
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MPH	Frequency	Percent	Cumulative %		Data Analysis:					
5	0	0.00%	0.00%		•					
6	0	0.00%	0.00%	Time Mean Speed:	31	.5	MPH			
7	0	0.00%	0.00%	Sample Variance:	21.	89				
8	0	0.00%	0.00%	Standard Deviation:	4.	7				
9	0	0.00%	0.00%	Variance of the Mean:	0.43	378				
10	0	0.00%	0.00%	Standard Error of the Mean:	0.	7				
11	0	0.00%	0.00%	10 MPH Pace:	26	To:	35	MPH		
12	0	0.00%	0.00%	Percent in Pace:	72.	0%				
13	0	0.00%	0.00%	Vehicles in Pace:	3	6				
14	0	0.00%	0.00%	50th Percentile Speed:	3	1	MPH			
15	0	0.00%	0.00%	85th Percentile Speed:	3	6	MPH			
16	0	0.00%	0.00%	90th Percentile Speed:	3	8	MPH			
17	0	0.00%	0.00%	95th Percentile Speed:	3	9	MPH			
18	0	0.00%	0.00%							





STREET: EAST MARKET STREET

BETWEEN: SHERWOOD DR. & SANBORN RD. SURVEY DATE: 05/28/2019 (EXPIRES 2024)

59



COMMENTS:

This segment of East Market Street is classified as a major arterial in the City of Salinas General Plan. The surrounding land use includes office, commercial, and light industrial areas. Speed data collected May 28, 2019 revealed the 85th percentile speed of 39 mph. The 10 mph pace ranges from 28 mph to 37 mph and suggests the 85th percentile is above this range. Based on the surrounding land use, and the 10 mph pace range, and the prevailing speeds rounded up and reduced by 5 mph per MUTCD option 2, the existing posted speed limit of 35 mph should be retained

AREA	DESCRIPTION	MAP SYMBOL
Distance	Approximately 6,800 Feet	
Vertical Alignment	Flat	ALL WAY STOP
Street Width	Varies (46 to 60 Feet)	SIGNAL
No. Lanes and Median	4-Lane Major Arterial	H
Existing Speed Zone	35 MPH	SPEED SIGN
35 th Percentile Speed	39 MPH	CITY LIMITS
raffic Volume (Date)	14,947	CROSSWALK
Accident Data (2 years)	37 Collisions (2017 - 2018)	
Street Segment Collision Rate = (Collisions) (1,000,000) (Years) (365) (ADT) (Length in Miles)	2.61 Acc./MVM	SCHOOL CROSSWALK





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CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES RADAR SURVEY

Street:		Market Street		Direction:	WBD/EBD		Comments:	
Between:		Sherwood Drive U.S. HWY 101		<u> </u>		No. 59		
Survey Location:		Sun Street & Peach Dr						
Speed Lim	nit:	35 MPH						
Date:		05/28/19	Day:	Tue	sday			
Hours:	From:	2:58PM	To:	3:1	8PM	1		
Maathar.		Cummu						

Observer(s): Alejandro B. & Victor C.

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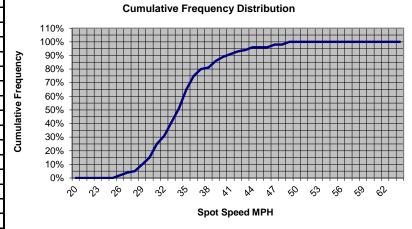
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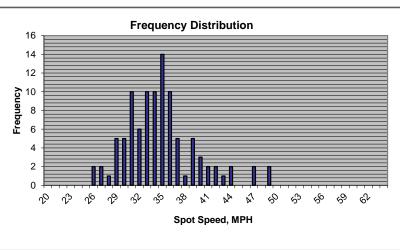
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MPH	Frequency	Percent	Cumulative %		Data Analysis:						
20	0	0.00%	0.00%								
21	0	0.00%	0.00%	Time Mean Speed:	34.	8	MPH				
22	0	0.00%	0.00%	Sample Variance:	21.9)5	<u> </u>				
23	0	0.00%	0.00%	Standard Deviation:	4.7	7	<u> </u>				
24	0	0.00%	0.00%	Variance of the Mean:	0.21	95	<u> </u>				
25	0	0.00%	0.00%	Standard Error of the Mean:	0.5	5	<u> </u>				
26	2	2.00%	2.00%	10 MPH Pace:	28	To:	37	MPH			
27	2	2.00%	4.00%	Percent in Pace:	76.0	%					
28	1	1.00%	5.00%	Vehicles in Pace:	76		<u> </u>				
29	5	5.00%	10.00%	50th Percentile Speed:	34		MPH				
30	5	5.00%	15.00%	85th Percentile Speed:	39	١	MPH				
31	10	10.00%	25.00%	90th Percentile Speed:	41		MPH				
32	6	6.00%	31.00%	95th Percentile Speed:	44		MPH				
33	10	10 00%	41 00%								







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CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES RADAR SURVEY

Street: Between:		Market Street		Direction:	WBD		Comments:	
		Sherwood Drive U.S.	<u> </u>		No. 59			
Survey Location:		Sun Street & Peach D						
Speed Lin	nit:	35 MPH						
Date:		05/28/19	Day:	Tue	sday			
Hours:	From:	2:58PM	To:	3:1	8PM			

Weather: Sunny Observer(s): Alejandro B. & Victor C.

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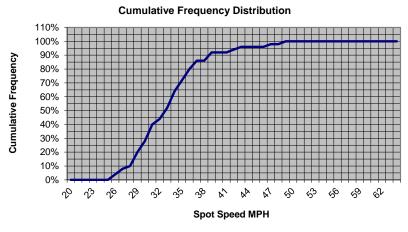
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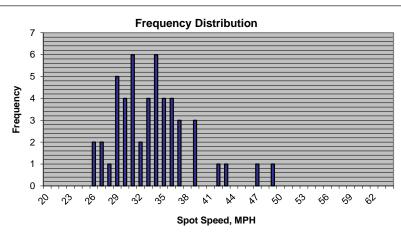
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MPH	Frequency	Percent	Cumulative %	Data Analysis:						
20	0	0.00%	0.00%							
21	0	0.00%	0.00%	Time Mean Speed:	33.6	MPH				
22	0	0.00%	0.00%	Sample Variance:	23.84					
23	0	0.00%	0.00%	Standard Deviation:	4.9					
24	0	0.00%	0.00%	Variance of the Mean:	0.4768					
25	0	0.00%	0.00%	Standard Error of the Mean:	0.7					
26	2	4.00%	4.00%	10 MPH Pace:	28	To: 37	MPH			
27	2	4.00%	8.00%	Percent in Pace:	78.0%		<u>.</u>			
28	1	2.00%	10.00%	Vehicles in Pace:	39					
29	5	10.00%	20.00%	50th Percentile Speed:	33	MPH				
30	4	8.00%	28.00%	85th Percentile Speed:	37	MPH				
31	6	12.00%	40.00%	90th Percentile Speed:	39	MPH				
32	2	4.00%	44.00%	95th Percentile Speed:	43	MPH				
33	4	8.00%	52.00%		51 . 11 . 1					







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CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES RADAR SURVEY

Street:		Market Street		Direction: EBD		Comments:
Between:		Sherwood Drive U.S. HWY 101		<u> </u>	No. 59	
Survey Location:		Sun Street & Pea	ch Drive			
Speed Lim	it:	35 MPH				
Date:		05/28/19	Day:	Tuesday		
Hours:	From:	2:58PM	To:	3:18PM		
Weather:		Sun	nv			

Observer(s): Alejandro B. & Victor C.

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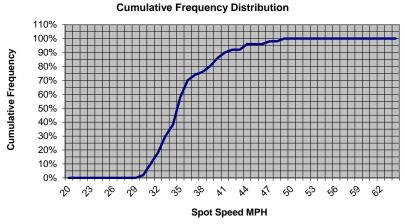
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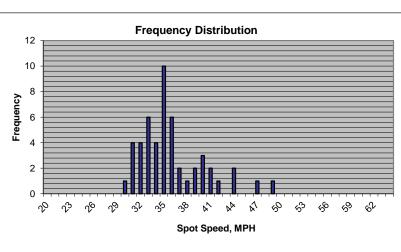
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MPH	Frequency	Percent	Cumulative %	Data Analysis:					
20	0	0.00%	0.00%						
21	0	0.00%	0.00%	Time Mean Speed:	36.0		MPH		
22	0	0.00%	0.00%	Sample Variance:	17.47	7			
23	0	0.00%	0.00%	Standard Deviation:	4.2				
24	0	0.00%	0.00%	Variance of the Mean:	0.3494				
25	0	0.00%	0.00%	Standard Error of the Mean:	0.6				
26	0	0.00%	0.00%	10 MPH Pace:	31	To:	40	MPH	
27	0	0.00%	0.00%	Percent in Pace:	84.0%	6			
28	0	0.00%	0.00%	Vehicles in Pace:	42		<u></u>		
29	0	0.00%	0.00%	50th Percentile Speed:	35		MPH		
30	1	2.00%	2.00%	85th Percentile Speed:	40		MPH		
31	4	8.00%	10.00%	90th Percentile Speed:	41		MPH		
32	4	8.00%	18.00%	95th Percentile Speed:	44		MPH		
33	6	12 00%	30.00%						





STREET: LARKIN STREET

BETWEEN: N. DAVIS RD. & RICO ST.

SURVEY DATE: 05/28/19 (EXPIRES IN 2024)





COMMENTS:

This segment of Larkin Street is classified as a collector in the City of Salinas General Plan. The surrounding land use includes fronting residential areas, a school and a park. Speed data collected May 28, 2019 revealed the 85th percentile speed of 32 mph. The 10 mph pace ranges from 25 mph to 34 mph and suggests the 85th percentile is within this range. Since the roadway width is 40 feet and there is fronting residential, the roadway meets the criteria of a local road. Therefore, the prevailing speeds rounded down and reduced by 5 mph per MUTCD option 1, the existing posted speed limit of 25 mph should be retained.

AREA	DESCRIPTION	MAP SYMBOL
Distance	Approximately 3,300 Feet	
Vertical Alignment	Flat	ALL WAY STOP
Street Width	Varies (43 to 45 Feet)	SIGNAL
No. Lanes and Median	2-Lane Collector	
Existing Speed Zone	25 MPH	SPEED SIGN
85 th Percentile Speed	32 MPH	CITY LIMITS
Traffic Volume (Date)	3,502	CROSSWALK
Accident Data (2 years)	2 Collisions (2017-2018)	
Street Segment Collision Rate = (Collisions) (1,000,000)	1.26 Acc./MVM	SCHOOL CROSSWALK
(Years) (365) (ADT) (Length in Miles)		



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CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES RADAR SURVEY

Street:		Larkin Street		Direction:	EBD/WBD		Comments:
Between:		Davis Road & Rico Steet		<u> </u>		No. 51	
Survey Location:		Larkin Circle & Sherman Drive					
Speed Lim	it:	25 MPH				1	
Date:		05/28/19	Day:	Tue	sday		
Hours:	From:	1:10PM	To:	1:4	6PM	1	
Woathor:		Sunny	•				

Observer(s): Alejandro B. & Victor C.

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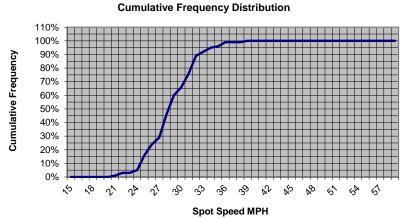
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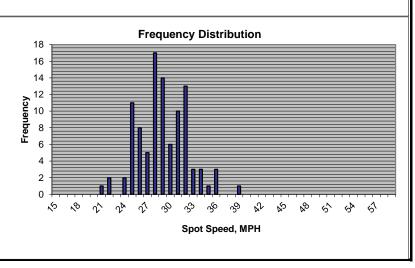
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MPH	Frequency	Percent	Cumulative %	Data Analysis:					
15	0	0.00%	0.00%		•				
16	0	0.00%	0.00%	Time Mean Speed:	29.0		MPH		
17	0	0.00%	0.00%	Sample Variance:	10.77	7	_		
18	0	0.00%	0.00%	Standard Deviation:	3.3		_		
19	0	0.00%	0.00%	Variance of the Mean:	0.107	7	_		
20	0	0.00%	0.00%	Standard Error of the Mean:	0.3		_		
21	1	1.00%	1.00%	10 MPH Pace:	25	To:	34	MPH	
22	2	2.00%	3.00%	Percent in Pace:	90.0%	6			
23	0	0.00%	3.00%	Vehicles in Pace:	90				
24	2	2.00%	5.00%	50th Percentile Speed:	29		MPH		
25	11	11.00%	16.00%	85th Percentile Speed:	32		MPH		
26	8	8.00%	24.00%	90th Percentile Speed:	33		MPH		
27	5	5.00%	29.00%	95th Percentile Speed:	34		MPH		
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CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES RADAR SURVEY

Street:		Larkin Street		Direction: EBD		Comments:
Between:		Davis Road & Rico Steet		<u></u>	No. 51	
Survey Location:		Larkin Circle & Shern	nan Drive			
Speed Lim	it:	25 MPH				
Date:		05/28/19	Day:	Tuesday		
Hours:	From:	1:10PM	To:	1:46PM		
Woathor:		Sunny	_			

Observer(s): Alejandro B. & Victor C.

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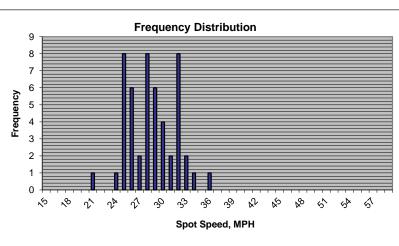
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MPH	Frequency	Percent	Cumulative %	Data Analysis:					
15	0	0.00%	0.00%						
16	0	0.00%	0.00%	Time Mean Speed:	28.5	j	MPH		
17	0	0.00%	0.00%	Sample Variance:	9.52	2			
18	0	0.00%	0.00%	Standard Deviation:	3.1				
19	0	0.00%	0.00%	Variance of the Mean:	0.1904		_		
20	0	0.00%	0.00%	Standard Error of the Mean:	0.4		_		
21	1	2.00%	2.00%	10 MPH Pace:	24	To:	33	MPH	
22	0	0.00%	2.00%	Percent in Pace:	94.0	%			
23	0	0.00%	2.00%	Vehicles in Pace:	47		<u></u>		
24	1	2.00%	4.00%	50th Percentile Speed:	28		MPH		
25	8	16.00%	20.00%	85th Percentile Speed:	32		MPH		
26	6	12.00%	32.00%	90th Percentile Speed:	32		MPH		
27	2	4.00%	36.00%	95th Percentile Speed:	33		MPH		
28	8	16.00%	52.00%	Compulative Fr	oguanay Diatrik				

Cumulative Frequency Distribution 110% 100% 90% **Cumulative Frequency** 80% 70% 60% 50% 40% 30% 20% 10% 0% \$ \$\langle \text{\$\langle \text{\$\exitin \text{\$\langle \text{\$\la \$ \$ \$ \$ \$ \$ 18 Spot Speed MPH





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CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES RADAR SURVEY

Street:	reet: Larkin Street		Direction:	WBD		Comments:	
Between:		Davis Road & Rico Steet				No. 51	
Survey Loca	ation:	Larkin Circle & Sherman	Drive				
Speed Limit	:	25 MPH					
Date:		05/28/19	Day:	Tue	sday		
Hours:	From:	1:10PM	To:	1:4	6PM		
Weather:		Sunny					

Observer(s): Alejandro B. & Victor C.

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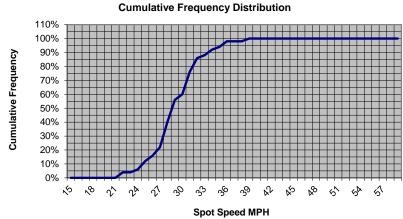
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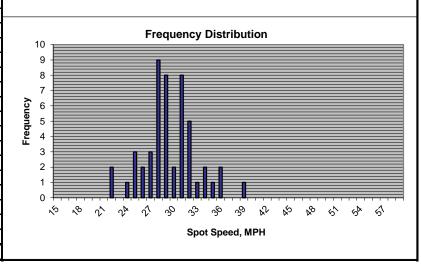
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MPH	Frequency	Percent	Cumulative %	Data Analysis:					
15	0	0.00%	0.00%						
16	0	0.00%	0.00%	Time Mean Speed:	29.5	5	MPH		
17	0	0.00%	0.00%	Sample Variance:	11.7	7	<u></u>		
18	0	0.00%	0.00%	Standard Deviation:	3.4				
19	0	0.00%	0.00%	Variance of the Mean:	0.2354		<u></u>		
20	0	0.00%	0.00%	Standard Error of the Mean:	0.5				
21	0	0.00%	0.00%	10 MPH Pace:	25	To:	34	MPH	
22	2	4.00%	4.00%	Percent in Pace:	86.0	%			
23	0	0.00%	4.00%	Vehicles in Pace:	43		<u></u>		
24	1	2.00%	6.00%	50th Percentile Speed:	29		MPH		
25	3	6.00%	12.00%	85th Percentile Speed:	32		MPH		
26	2	4.00%	16.00%	90th Percentile Speed:	34		MPH		
27	3	6.00%	22.00%	95th Percentile Speed:	36		MPH		
28	9	18.00%	40.00%						



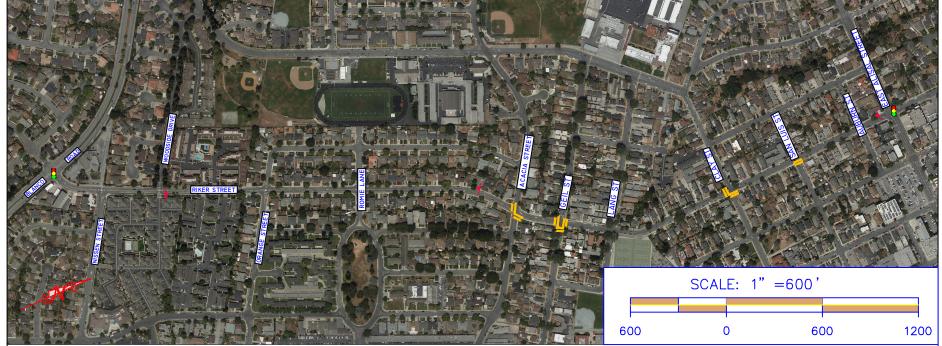


STREET: RIKER STREET

BETWEEN: WEST ALISAL ST & WEST BLANCO RD

SURVEY DATE: 05/30/19 (EXPIRES 2024)





COMMENTS:

This segment of Riker Street is classified as a collector in the City of Salinas General Plan. The surrounding land use includes fronting residential areas. Speed data collected May 30, 2019 revealed the 85th percentile speed of 32 mph. The 10 mph pace ranges from 23 mph to 32 mph and suggests the 85th percentile is within this range. Since the roadway width is 40 feet and there is fronting residential, the roadway meets the criteria of a local road. Therefore, the prevailing speeds rounded down and reduced by 5 mph per MUTCD option 1, the existing posted speed limit of 25 mph should be retained.

AREA	DESCRIPTION	MAP SYMBOL
Distance	Approximately 5,350 Feet	
Vertical Alignment	Flat	ALL-WAY STOP
Street Width	40 Feet	SIGNAL
No. Lanes and Median	2 Lane Arterial	SPEED SIGN
Existing Speed Zone	25 MPH	
85th Percentile Speed	32 MPH	CITY LIMITS
Traffic Volume (Date)	3,820	CROSSWALK
Accident Data (2 years)	4 Collisions (2017 - 2018)	SCHOOL CROSSWALK
Street Segment Collision Rate = (Collisions) (1,000,000) (Years) (365) (ADT) (Length in Miles)	1.42 Acc./MVM	CROSSING GUARD



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CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES RADAR SURVEY

Street:		Riker Street		Direction:	SBD/NBD		Comments:
Between: West Alisal & West Blanco		West Blanco Road			No. 44		
Survey Location:	:					1	
Speed Limit:		25 M	PH				
Date:		05/30/	l9 Day:	Thu	rsday		
Hours: Fro	om:	2:42Pl	M To:	3:2	5PM		
Weather:		C	vercast			1	

Observer(s): Chris & Herendira

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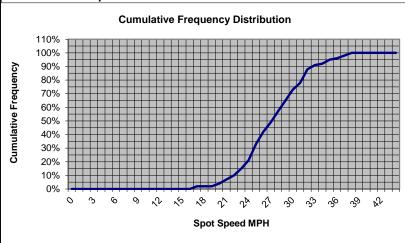
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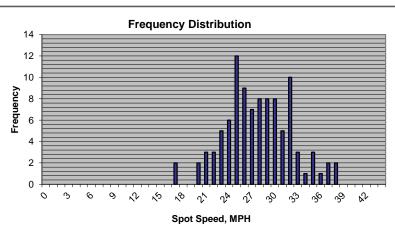
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MPH	Frequency	Percent	Cumulative %		Data Analysis:						
0	0	0.00%	0.00%		_						
1	0	0.00%	0.00%	Time Mean Speed:	27.	.8	MPH				
2	0	0.00%	0.00%	Sample Variance:	19.	41	<u> </u>				
3	0	0.00%	0.00%	Standard Deviation:	4.4	4					
4	0	0.00%	0.00%	Variance of the Mean:	0.1941		_				
5	0	0.00%	0.00%	Standard Error of the Mean:	0.4						
6	0	0.00%	0.00%	10 MPH Pace:	23	To:	32	MPH			
7	0	0.00%	0.00%	Percent in Pace:	78.0)%					
8	0	0.00%	0.00%	Vehicles in Pace:	78	3	_				
9	0	0.00%	0.00%	50th Percentile Speed:	28	3	MPH				
10	0	0.00%	0.00%	85th Percentile Speed:	32	2	MPH				
11	0	0.00%	0.00%	90th Percentile Speed:	33	3	MPH				
12	0	0.00%	0.00%	95th Percentile Speed:	35	5	MPH				
13	0	0.00%	0.00%	O	Diet-i	L 4! a					
14	0	0.00%	0.00%	Cumulative Fro	Cumulative Frequency Distribution						







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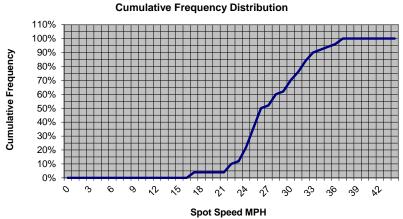
CITY OF SALINAS

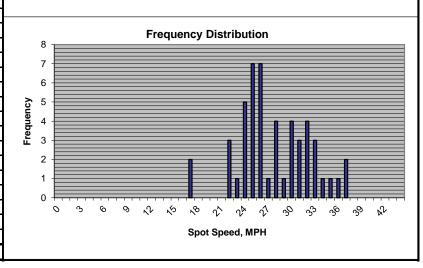
DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES RADAR SURVEY

Street:		Riker St	reet		Direction:	NBD		Comments:
Between:		West Ali	sal & West B	lanco Road	_		No. 44	
Survey Loc	cation:							
Speed Lim	it:	25	MPH					
Date:		0:	5/3 0/19	Day:	Thu	rsday		
Hours:	From:	2	::42PM	To:	3:2	5PM The second s		
Weather:			Overcast	-				

Observer(s): Chris & Herendira

MPH	Frequency	Percent	Cumulative %		Analysis	:		
0	0	0.00%	0.00%		•			
1	0	0.00%	0.00%	Time Mean Speed:	27	.7	MPH	
2	0	0.00%	0.00%	Sample Variance:	21.	18		
3	0	0.00%	0.00%	Standard Deviation:	4.	6		
4	0	0.00%	0.00%	Variance of the Mean:	0.42	236		
5	0	0.00%	0.00%	Standard Error of the Mean:	0.	7	_	
6	0	0.00%	0.00%	10 MPH Pace:	24	To:	33	MPH
7	0	0.00%	0.00%	Percent in Pace:	78.0)%		
8	0	0.00%	0.00%	Vehicles in Pace:	39	9		
9	0	0.00%	0.00%	50th Percentile Speed:	2	6	MPH	
10	0	0.00%	0.00%	85th Percentile Speed:	33	3	MPH	
11	0	0.00%	0.00%	90th Percentile Speed:	33	3	MPH	
12	0	0.00%	0.00%	95th Percentile Speed:	30	ĵ .	MPH	
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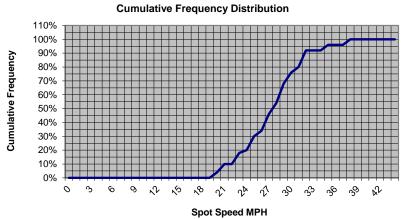
CITY OF SALINAS

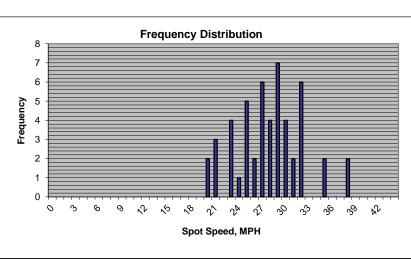
DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES RADAR SURVEY

Street:		Riker Str	eet		Direction:	SBD		Comments:
Between:		West Alis	sal & West E	lanco Road	_		No. 44	
Survey Lo	cation:							
Speed Lin	nit:	25	MPH					
Date:		05	5/3 0/19	Day:	Thu	rsday		
Hours:	From:	2:	:42PM	To:	3:2	5PM		

Overcast Observer(s): Chris & Herendira

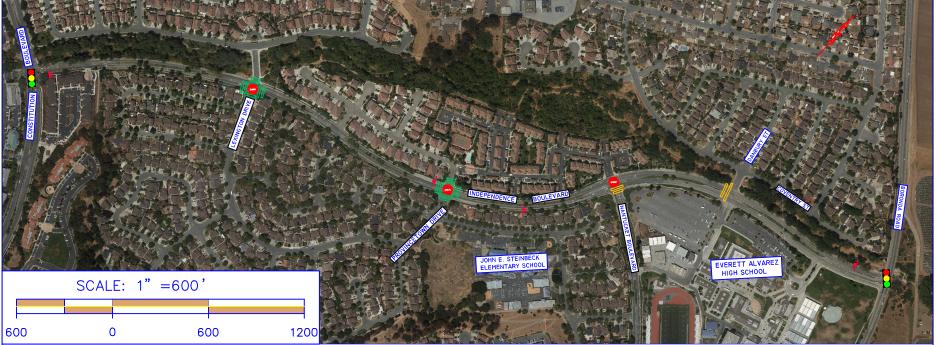
MPH	Frequency	Percent	Cumulative %		Analysis	:		
0	0	0.00%	0.00%		•			
1	0	0.00%	0.00%	Time Mean Speed:	27.	.9	MPH	
2	0	0.00%	0.00%	Sample Variance:	18.0	04	<u> </u>	
3	0	0.00%	0.00%	Standard Deviation:	4.2	2	<u> </u>	
4	0	0.00%	0.00%	Variance of the Mean:	0.36	808		
5	0	0.00%	0.00%	Standard Error of the Mean:	0.0	6	<u> </u>	
6	0	0.00%	0.00%	10 MPH Pace:	23	To:	32	MPH
7	0	0.00%	0.00%	Percent in Pace:	82.0)%		
8	0	0.00%	0.00%	Vehicles in Pace:	41		<u> </u>	
9	0	0.00%	0.00%	50th Percentile Speed:	28	3	MPH	
10	0	0.00%	0.00%	85th Percentile Speed:	32	2	MPH	
11	0	0.00%	0.00%	90th Percentile Speed:	32	2	MPH	
12	0	0.00%	0.00%	95th Percentile Speed:	35	5	MPH	
13	0	0.00%	0.00%		_			





SURVEY DATE: **05/28/19 (EXPIRES 2024)**





COMMENTS:

This segment of Independence Boulevard is classified as a collector in the City of Salinas General Plan. The surrounding land use includes backing residential areas and a school. Speed data collected May 28, 2019 revealed the 85th percentile speed of 35 mph. The 10 mph pace ranges from 26 mph to 35 mph and suggests the 85th percentile is within this range. Based on the surrounding land use, and the 10 mph pace range, and the prevailing speeds rounded up and reduced by 5 mph per MUTCD option 2, the existing posted speed limit of 35 mph should be reduced to 30 mph.

AREA	DESCRIPTION	MAP SYMBOL	
Distance	Approximately 5,600 Feet		
Vertical Alignment	Flat	ALL-WAY STOP	PROFESSION.
Street Width	Varies (56 to 86 Feet)	SIGNAL	EN EAST
No. Lanes and Median	2-Lane Divided Arterial	CDEED CICH	50 St. 1 & 12 &
Proposed Speed Zone	30 MPH	SPEED SIGN	5 8 Casterling 2
85th Percentile Speed	35 MPH	CITY LIMITS	² NO. TR 2824 ¹⁷
Traffic Volume (Date)	3,925	CROSSWALK	☆\
Accident Data (2 years)	6 Collisions (2017 - 2018)	CCHOOL CDOCCMALK	ON PAREICAST
Street Segment Collision Rate = (Collisions) (1,000,000) (Years) (365) (ADT) (Length in Miles)	1.98 Acc./MVM	SCHOOL CROSSWALK CROSSING GUARD	OF CALFOR



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CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES RADAR SURVEY

Street: Independence Boulevard Direction: NBD/SBD Comments:

Between: Constitution Boulevard & Boronda Road

Survey Location: Speed Limit: 35 MPH

April 10 MPH

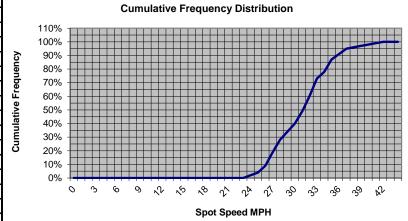
Direction: NBD/SBD No. 37

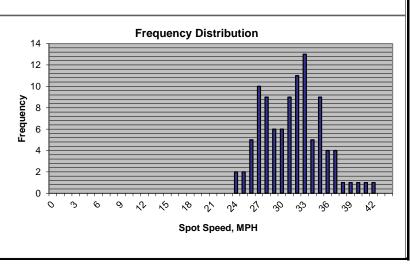
 Date:
 05/28/19
 Day:
 Tuesday

 Hours:
 From:
 11:40AM
 To:
 12:20PM

Weather: Sunny
Observer(s): Alejandro & Victor

MPH	Frequency	Percent	Cumulative %		Analysis	•		
0	0	0.00%	0.00%					
1	0	0.00%	0.00%	Time Mean Speed:	31.	4	MPH	
2	0	0.00%	0.00%	Sample Variance:	14.7	7 5	<u> </u>	
3	0	0.00%	0.00%	Standard Deviation:	3.8	3	<u> </u>	
4	0	0.00%	0.00%	Variance of the Mean:	0.14	75	<u> </u>	
5	0	0.00%	0.00%	Standard Error of the Mean:	0.4	ļ.	<u> </u>	
6	0	0.00%	0.00%	10 MPH Pace:	26	To:	35	MPH
7	0	0.00%	0.00%	Percent in Pace:	83.0	%		
8	0	0.00%	0.00%	Vehicles in Pace:	83		<u> </u>	
9	0	0.00%	0.00%	50th Percentile Speed:	32	1	MPH	
10	0	0.00%	0.00%	85th Percentile Speed:	35	i	MPH	
11	0	0.00%	0.00%	90th Percentile Speed:	36	i	MPH	
12	0	0.00%	0.00%	95th Percentile Speed:	37		MPH	
13	0	0.00%	0.00%					







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CITY OF SALINAS

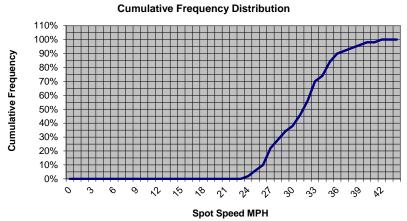
DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES RADAR SURVEY

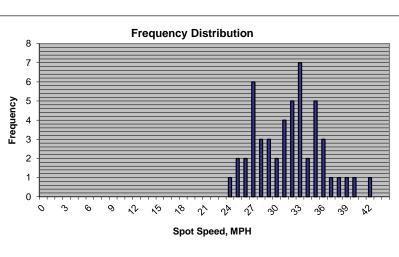
Street:	Independ	dence Boule	vard [Direction:	SBD		Comments:	
Between:	Constitu	tion Bouleva	ard & Boronda	Road		No. 37		
Survey Location:								
Speed Limit:	35	MPH						
Date:	0.5	5/28/19	Day:	Tue	eday			

Hours: From: 11:40AM To: 12:20PM
Weather: Sunny

Observer(s): Alejandro & Victor

MPH	Frequency	Percent	Cumulative %		Analysis	:		
0	0	0.00%	0.00%					
1	0	0.00%	0.00%	Time Mean Speed:	31.	6	MPH	
2	0	0.00%	0.00%	Sample Variance:	17.2	26	<u> </u>	
3	0	0.00%	0.00%	Standard Deviation:	4.2	<u>)</u>	<u> </u>	
4	0	0.00%	0.00%	Variance of the Mean:	0.34	52	<u> </u>	
5	0	0.00%	0.00%	Standard Error of the Mean:	0.6	3	<u> </u>	
6	0	0.00%	0.00%	10 MPH Pace:	27	To:	36	MPH
7	0	0.00%	0.00%	Percent in Pace:	80.0	%		
8	0	0.00%	0.00%	Vehicles in Pace:	40	1	<u> </u>	
9	0	0.00%	0.00%	50th Percentile Speed:	32		MPH	
10	0	0.00%	0.00%	85th Percentile Speed:	36		MPH	
11	0	0.00%	0.00%	90th Percentile Speed:	36	i	MPH	
12	0	0.00%	0.00%	95th Percentile Speed:	39		MPH	
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CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES RADAR SURVEY

Street:		Independ	dence Boule	vard	Direction:	NBD		Comments:	
Between:		Constitu	tion Bouleva	ard & Boron	da Road		No. 37		
Survey Loc	ation:								
Speed Limi	it:	35	MPH						
Date:		0;	5/2 8/19	Day:	Tue	sday			
Hours:	From:	11	·40ΔM	To:	12:2	орм			

Weather: Sunny

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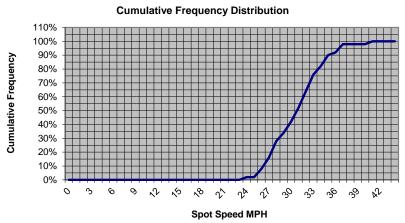
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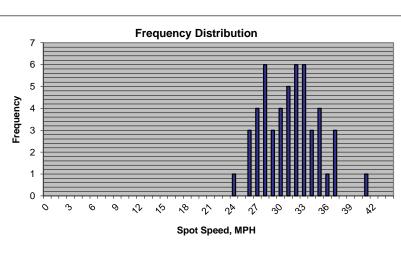
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Observer(s): Alejandro & Victor

MPH	Frequency	Percent	Cumulative %		Analysis	:		
0	0	0.00%	0.00%					
1	0	0.00%	0.00%	Time Mean Speed:	31.	2	MPH	
2	0	0.00%	0.00%	Sample Variance:	12.4	1 5	_	
3	0	0.00%	0.00%	Standard Deviation:	3.5	5	_	
4	0	0.00%	0.00%	Variance of the Mean:	0.24	90	_	
5	0	0.00%	0.00%	Standard Error of the Mean:	0.5	5	_	
6	0	0.00%	0.00%	10 MPH Pace:	26	To:	35	MPH
7	0	0.00%	0.00%	Percent in Pace:	88.0)%		,
8	0	0.00%	0.00%	Vehicles in Pace:	44	ļ	_	
9	0	0.00%	0.00%	50th Percentile Speed:	31		MPH	
10	0	0.00%	0.00%	85th Percentile Speed:	35	5	MPH	
11	0	0.00%	0.00%	90th Percentile Speed:	35	5	MPH	
12	0	0.00%	0.00%	95th Percentile Speed:	37	,	MPH	
13	0	0.00%	0.00%					







COMMENTS:

This segment of Harden Parkway is classified as a minor arterial in the City of Salinas General Plan. The surrounding land use includes backing residential, retail, office and park areas. Speed data collected May 30, 2019 revealed the 85th percentile speed of 42 mph. The 10 mph pace ranges from 33 mph to 42 mph and suggests the 85th percentile is within this range. Based on the surrounding land use, and 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 5,600 Feet	
Vertical Alignment	Flat	ALL-WAY STOP
Street Width	51 Feet	
No. Lanes and Median	4-Lane Minor Arterial	SPEED SIGN
Existing Speed Zone	35 MPH	SPEED SIGN
85th Percentile Speed	42 MPH	CITY LIMITS
Traffic Volume (Date)	7,680	CROSSWALK
Accident Data (2 years)	10 Collision (2017-2018)	— SCHOOL CROSSWALK
Street Segment Collision Rate = (Collisions) (1,000,000) (Years) (365) (ADT) (Length in Miles)	1.68 Acc./MVM	CROSSING GUARD



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CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES RADAR SURVEY

Street:	Harden Pa	arkway	Direction:	WBD/EBD		Comments:
Between:	Mckinnon	Street & El Dora	ado Drive		No.34	
Survey Location:					1	
Speed Limit:	35	MPH			1	

 Date:
 05/30/19
 Day:
 Thursday

 Hours:
 From:
 1:20PM
 To:
 1:55PM

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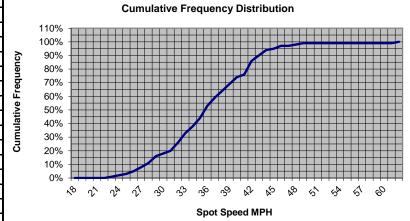
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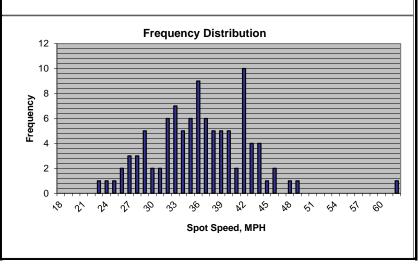
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Weather: Overcast
Observer(s): Chris & Herendira

MPH	Frequency	Percent	Cumulative %	Data Analysis:				
18	0	0.00%	0.00%					
19	0	0.00%	0.00%	Time Mean Speed:	36.	.4	MPH	
20	0	0.00%	0.00%	Sample Variance:	39.3	30		
21	0	0.00%	0.00%	Standard Deviation:	6.3	3		
22	0	0.00%	0.00%	Variance of the Mean:	0.39	30		
23	1	1.00%	1.00%	Standard Error of the Mean:	0.0	6		
24	1	1.00%	2.00%	10 MPH Pace:	33	To:	42	MPH
25	1	1.00%	3.00%	Percent in Pace:	60.0)%		
26	2	2.00%	5.00%	Vehicles in Pace:	60)		
27	3	3.00%	8.00%	50th Percentile Speed:	36	6	MPH	
28	3	3.00%	11.00%	85th Percentile Speed:	42	2	MPH	
29	5	5.00%	16.00%	90th Percentile Speed:	43	3	MPH	
30	2	2.00%	18.00%	95th Percentile Speed:	45	5	MPH	
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CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES RADAR SURVEY

Street:		Harden Parkway		Direction: WBD		Comments:
Between:		Mckinnon Street & El	Dorado Dr	ive	No.34	
Survey Loc	ation:					
Speed Limi	t:	35 MPH				
Date:		05/30/19	Day:	Thursday		
Hours:	From:	1:20PM	To:	1:55PM		
Weather:		Overcast	_			

Observer(s): Chris & Herendira

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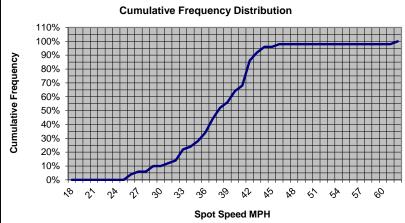
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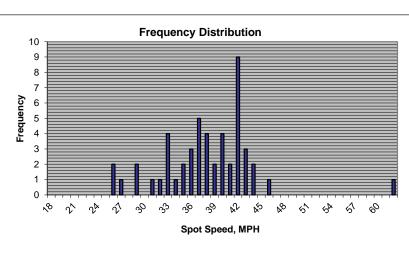
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MPH	Frequency	Percent	Cumulative %	Data Analysis:				
18	0	0.00%	0.00%		•			
19	0	0.00%	0.00%	Time Mean Speed:	38.	1	MPH	
20	0	0.00%	0.00%	Sample Variance:	36.2	0		
21	0	0.00%	0.00%	Standard Deviation:	6.0)		
22	0	0.00%	0.00%	Variance of the Mean:	0.7240			
23	0	0.00%	0.00%	Standard Error of the Mean:	0.9			
24	0	0.00%	0.00%	10 MPH Pace:	33	To:	42	MPH
25	0	0.00%	0.00%	Percent in Pace:	72.0	%		
26	2	4.00%	4.00%	Vehicles in Pace:	36			
27	1	2.00%	6.00%	50th Percentile Speed:	38		MPH	
28	0	0.00%	6.00%	85th Percentile Speed:	42		MPH	
29	2	4.00%	10.00%	90th Percentile Speed:	43		MPH	
30	0	0.00%	10.00%	95th Percentile Speed:	44		MPH	
31	1	2.00%	12.00%					







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Totals

CITY OF SALINAS

DEPARTMENT OF DEVELOPMENT & ENGINEERING SERVICES RADAR SURVEY

Street:	Harden Parkway]	Direction: EBD		Comments:	
Between:	Mckinnon Street & El	Dorado Drive	No.34			
Survey Location:						
Speed Limit:	35 MPH					
Date:	05/30/19	Day:	Thursday			
Hours: From:	1-20DM	_ To: _	1.55DM			

Weather: Overcast

Observer(s): Chris & Herondira

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Observer(s): Chris & Herendira

MPH	Frequency	Percent	%	Data Analysis:				
18	0	0.00%	0.00%					
19	0	0.00%	0.00%	Time Mean Speed:	34.6		MPH	
20	0	0.00%	0.00%	Sample Variance:	37.17			
21	0	0.00%	0.00%	Standard Deviation:	6.1			
22	0	0.00%	0.00%	Variance of the Mean:	0.7434			
23	1	2.00%	2.00%	Standard Error of the Mean:	0.9			
24	1	2.00%	4.00%	10 MPH Pace:	27 To:		36	MPH
25	1	2.00%	6.00%	Percent in Pace:	66.0%)		
26	0	0.00%	6.00%	Vehicles in Pace:	33			
27	2	4.00%	10.00%	50th Percentile Speed:	34		MPH	
28	3	6.00%	16.00%	85th Percentile Speed:	42		MPH	
29	3	6.00%	22.00%	90th Percentile Speed:	44		MPH	
30	2	4.00%	26.00%	95th Percentile Speed:	46		MPH	
31	1	2.00%	28.00%	Cumulativa F	on and Diatribu	4!		

