



Compiled by: E Larimer
Date: Oct, 2025

ENGINEERING AND TRAFFIC SURVEY

- I. Road Soda Springs Road (Segment 1 of 2)
From Donner Pass Road
To Cross Walk 1100ft south of Donner Pass Road
- II. **Reason for Study:** Five Year Speed Zone Update
- III. **Roadway Characteristics:**
- a. Width - 24 feet
 - b. Surface - Asphaltic Concrete
 - c. Striping - Double yellow centerline
 - d. ADT - 1,831
 - e. Length - 0.19 miles
- IV. **Roadside Characteristics:** The segment is rural with moderate sight distance. Soda Springs Mountain Resort is accessed from Soda Springs Road and generates additional traffic during winter months.
- V. **Existing Speed Zone:** 35 miles per hour
- VI. **Prevailing Speed:**
- a. 10 miles per hour pace - 29 - 38 miles per hour
 - b. Average speed - 33 miles per hour
 - c. 85th percentile - 37 miles per hour
- VII. **Accident History:** There was one reported accidents on this segment of Soda Springs Road over the last five years.
- VIII. **Other Factors of Significance:** The road crosses a pair of railroad tracks approximately 380ft south of Donner Pass Road. As well as a crosswalk with significant pedestrian traffic during the winter season.
- IX. **Is a Speed Zone Warranted:** Yes
- I. **Recommendations:** California Vehicle Code Section 22358.6 allows for the 85th percentile speed to be rounded to the nearest 5 mph increment and then reduced by 5 mph if conditions exist that are not readily apparent to drivers. This section has multiple features that are not readily apparent to drivers, and it is recommended that the section be posted at **30 miles per hour**.

A handwritten signature in black ink, appearing to read "Patrick Perkins", is written over a horizontal line.

Patrick Perkins P.E., CCM
Principal Civil Engineer



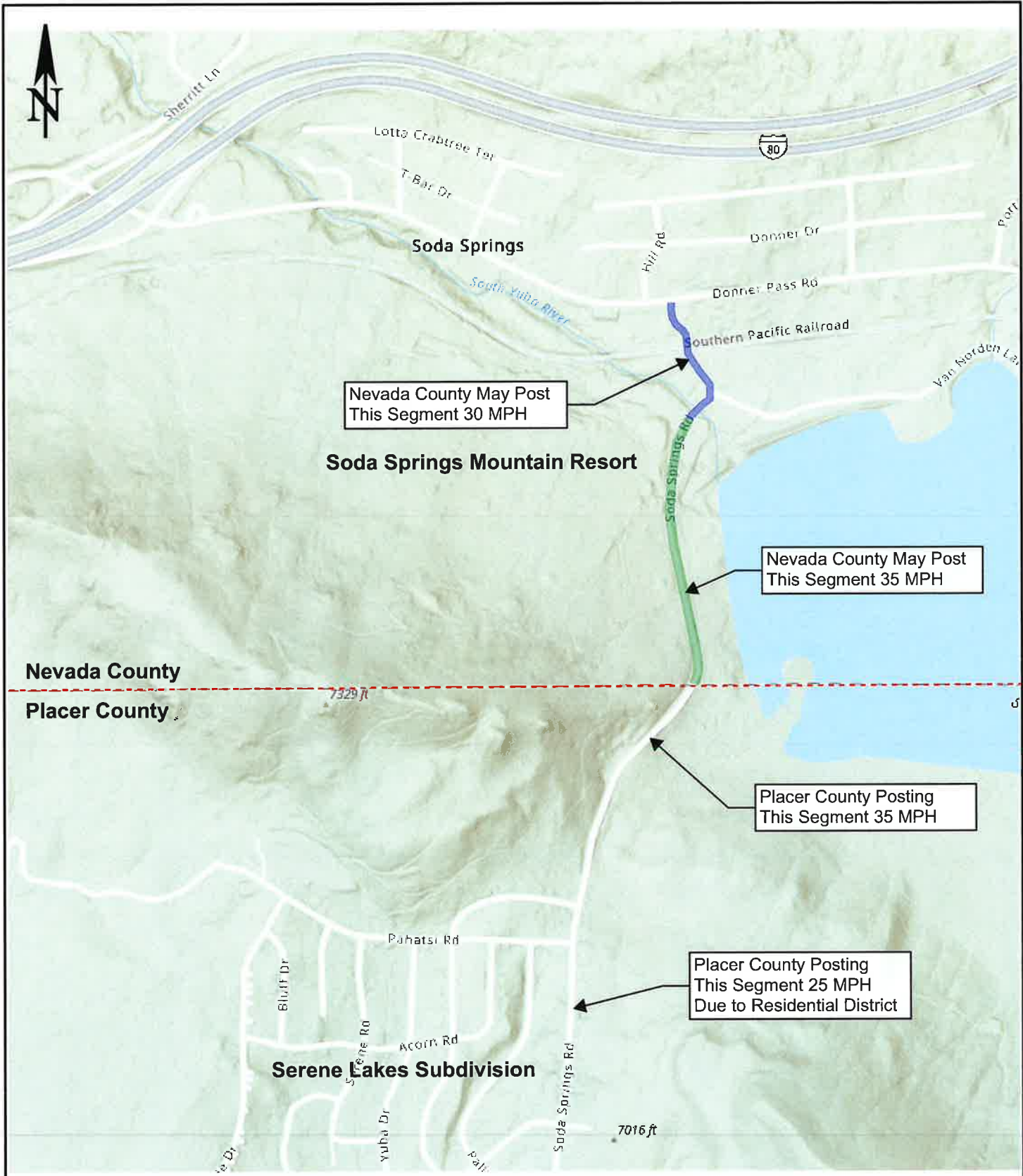
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ENGINEERING AND TRAFFIC SURVEY

- I. Road Soda Springs Road (Segment 2 of 2)
From Cross Walk 1100ft south of Donner Pass Road
To Placer County Line
- II. **Reason for Study:** Five Year Speed Zone Update
- III. **Roadway Characteristics:**
- a. Width - 24 feet
 - b. Surface - Asphaltic Concrete
 - c. Striping - Double yellow centerline
 - d. ADT - 1,831
 - e. Length - 0.34 miles
- IV. **Roadside Characteristics:** The segment is open rural moderate sight distance. Soda Springs Mountain Resort is accessed from Soda Springs Road and generates additional traffic during winter months.
- V. **Existing Speed Zone:** 35 miles per hour
- VI. **Prevailing Speed:**
- a. 10 miles per hour pace - 29 - 38 miles per hour
 - b. Average speed - 33 miles per hour
 - c. 85th percentile - 37 miles per hour
- VII. **Accident History:** There were two reported accidents on this segment of Soda Springs Road over the last five years.
- VIII. **Other Factors of Significance:** The road crosses a pair of railroad tracks approximately 380ft south of Donner Pass Road. This segment ends at a crosswalk that has significant pedestrian traffic in the winter.
- IX. **Is a Speed Zone Warranted:** Yes
- X. **Recommendations:** The California Manual of Uniform Traffic Control Devices indicates that when a speed limit is to be posted, it should be established at the nearest 5 mph increment of the 85th percentile speed. The 85th percentile speed for this study is in alignment with the posted speed limit of 35 miles per hour. It is recommended that this section **remain posted at 35mph.**

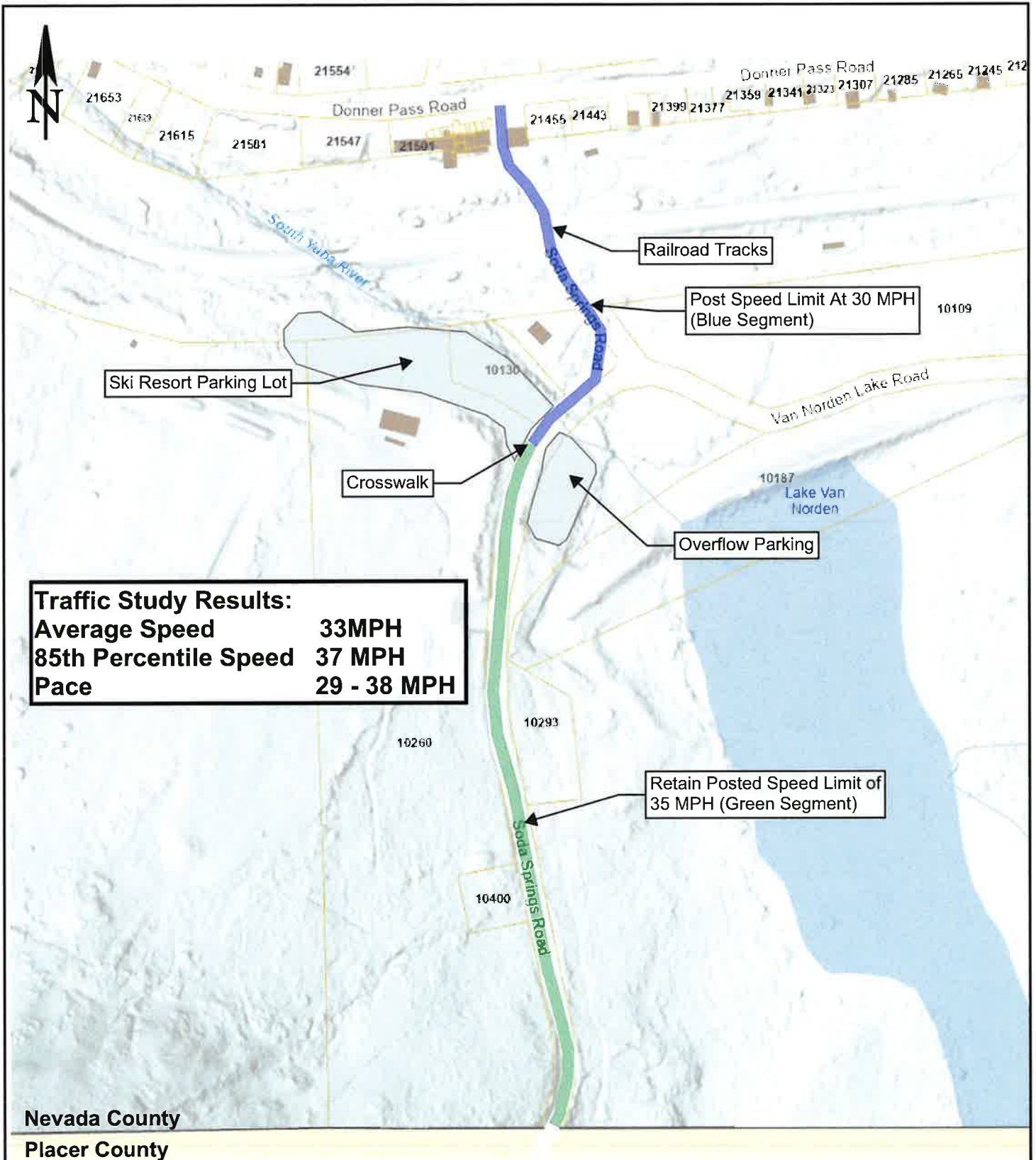
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Patrick Perkins P.E., CCM
Principal Civil Engineer



NEVADA COUNTY
CALIFORNIA

Soda Springs Road Speed Limits



Road: Soda Springs Road Segment: Donner Pass Road To Placer County Line

Speed # of cars Cumulative Avg speed calc Pace calc Pace Range

15	27	0	405		
16	23	0	368		
17	26	0	442		
18	25	1	450		
19	35	1	665		
20	32	1	640		
21	60	1	1260		
22	82	2	1804		
23	127	3	2921		
24	177	4	4248	614	15 - 24
25	288	6	7200	875	16 - 25
26	371	8	9646	1223	17 - 26
27	514	11	13878	1711	18 - 27
28	676	16	18928	2362	19 - 28
29	923	21	26767	3250	20 - 29
30	1122	29	33660	4340	21 - 30
31	1329	37	41199	5609	22 - 31
32	1369	46	43808	6896	23 - 32
33	1464	55	48312	8233	24 - 33
34	1541	65	52394	9597	25 - 34
35	1341	73	46935	10650	26 - 35
36	1174	81	42264	11453	27 - 36
37	888	86	32856	11827	28 - 37
38	734	91	27892	11885	29 - 38
39	480	94	18720	11442	30 - 39
40	311	96	12440	10631	31 - 40
41	203	97	8323	9505	32 - 41
42	155	98	6510	8291	33 - 42
43	95	99	4085	6922	34 - 43
44	64	99	2816	5445	35 - 44
45	39	100	1755	4143	36 - 45
46	16	100	736	2985	37 - 46
47	15	100	705	2112	38 - 47
48	13	100	624	1391	39 - 48
49	6	100	294	917	40 - 49
50	3	100	150	609	41 - 50
51	2	100	102	408	42 - 51
52	3	100	156	256	43 - 52
53	0	100	0	161	44 - 53
54	1	100	54	98	45 - 54
55	0	100	0	59	46 - 55

Total 15754

516412

	Previous	Current	
Average Speed	33	33	Rounded
85th Percentile	37	36.72	37
Pace	28-37	29-38	

Posted Speed: 35

Date: 9/2/24 to 9/6/24

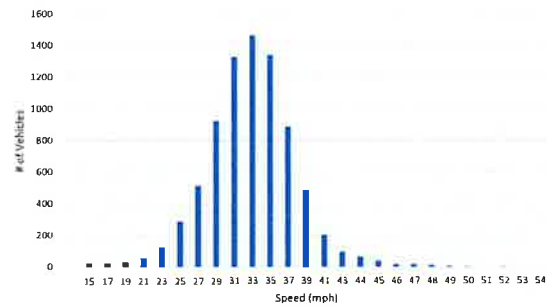
AC Width: 24

Observer: E Larimer

Weather: Sunny

Location of Survey: 200 Ft North of Placer County Line

Speed Distribution



Speed (mph)

