

San Diego County Traffic Advisory Committee



Committee Secretary
5510 Overland Avenue #410, Room 470, M.S. 0-334
San Diego, California 92123-1239
(858) 694-3843

Represented Agencies

Automobile Club of Southern
California
California Department of
Transportation
California Highway Patrol
Independent Insurance Agents
& Brokers of San Diego
San Diego County Bicycle Coalition
San Diego County Department of
Public Works
San Diego County Office of Education
San Diego County Pacific Safety
Council
San Diego County
Sheriff's Department

November 30, 2018

TO: Community Planning/Sponsor Group Chairpersons

FROM: Secretary, Traffic Advisory Committee

MEETING NOTICE

Attached is the preliminary agenda for the December 14, 2018, meeting of the Traffic Advisory Committee (TAC). The meeting will begin at 9:00 AM in the following location:

Department of Public Works
Second Floor, Room 271
5510 Overland Avenue
San Diego, CA 92123

Your community group may have previously provided formal input on these matters and your group's recommendations would be included as part of the Chief Administrative Officer's report to the Board of Supervisors along with TAC recommendations. The Board of Supervisors will make a final decision as to what action will be taken after reviewing TAC recommendations and community group input, when available.

If your community planning/sponsor group representative would like to attend the TAC meeting and participate in the discussion of an item on this agenda, or if you do have any questions or need additional information regarding this procedure, please contact me at (858) 694-3843. TAC staff is available to provide background information on items and to answer questions you may have.

Very truly yours,

Kenton R. Jones, Secretary
San Diego County Traffic Advisory Committee

KRJ:sh

Attachment



SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

December 14, 2018 ~ 9:00 AM

5510 Overland Ave, Room 271

San Diego CA, 92123

AGENDA

- I. Call to Order / Roll Call**
- II. Pledge of Allegiance**
- III. Approval of Minutes**
- IV. Items for Review**

SUBJECT		LOCATION	AREA	PLANNING/ SPONSOR GROUP
<u>SUPERVISORIAL DISTRICT 2</u>				
2-A.	RADAR RECERTIFICATION	PROCTOR VALLEY RD	JAMUL	JAMUL-DULZURA
2-B.	RADAR RECERTIFICATION	PARADISE VALLEY RD	SPRING VALLEY	SPRING VALLEY
2-C.	TEMPORARY ROAD CLOSURE	WHITESTONE RD	SPRING VALLEY	SPRING VALLEY
2-D.	RADAR RECERTIFICATION	VIA RANCHO SAN DIEGO	RANCHO SAN DIEGO	VALLE DE ORO
2-E.	RADAR RECERTIFICATION	CALLE ALBARA	RANCHO SAN DIEGO	VALLE DE ORO
2-F.	RADAR RECERTIFICATION	WIEGHORST WAY	RANCHO SAN DIEGO	VALLE DE ORO
2-G.	INTERSECTION CONTROL	FURY LANE & CALLE VERDE	RANCHO SAN DIEGO	VALLE DE ORO
2-H.	SPEED LIMIT	BLACK CANYON RD & MAGNOLIA AVE	RAMONA	RAMONA
<u>SUPERVISORIAL DISTRICT 3</u>				
3-A.	RADAR RECERTIFICATION	DOVE CANYON RD	4S RANCH	SAN DIEGUITO

SUBJECT		LOCATION	AREA	PLANNING/ SPONSOR GROUP
<u>SUPERVISORIAL DISTRICT 5</u>				
5-A.	RADAR RECERTIFICATION	MAC TAN RD	VALLEY CENTER	VALLEY CENTER
5-B.	RADAR RECERTIFICATION	STAGE COACH LN	FALLBROOK	FALLBROOK
5-C.	RADAR RECERTIFICATION	STAGE COACH LN	FALLBROOK	FALLBROOK
5-D.	INTERSECTION CONTROL	LINEA DEL CIELO & RAMBLA DE LAS FLORES & CALZADA DEL BOSQUE	RANCHO SANTA FE	SAN DIEGUITO

SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: December 14, 2018 **Item 2-A**

SUPERVISORIAL DISTRICT: 2

SUBJECT: Radar Recertification

LOCATION: Proctor Valley Road from State Route 94 to 1,600 feet north of Calle Bueno Ganar (0.54 miles) JAMUL (Thos. Bros. 1292-H2)

INITIATED BY: DPW Traffic Engineering

REQUEST: Radar Recertification

PROBLEM AS STATED BY REQUESTER:

Proctor Valley Road from State Route 94 to 1,600 feet north of Calle Bueno Ganar is posted 40 MPH Radar Enforced. Preliminary review of prevailing speeds and roadway conditions could support radar recertification.

Existing Traffic Devices

Proctor Valley Road is a striped two-lane roadway that varies from 25 feet to 30 feet in width. The road is classified as a Light Collector on the County General Plan Mobility Element Network. There are two 15 MPH curve advisory signs posted on either side of the sharp curves at Maxfield Road and Schlee Canyon Road respectively. The road is posted 40 MPH/Radar Certified.

Average Daily Traffic Volumes

	<u>04/18</u>	<u>09/11</u>
Proctor Valley Road:		
300' S/o SR-94	2,675	2,840

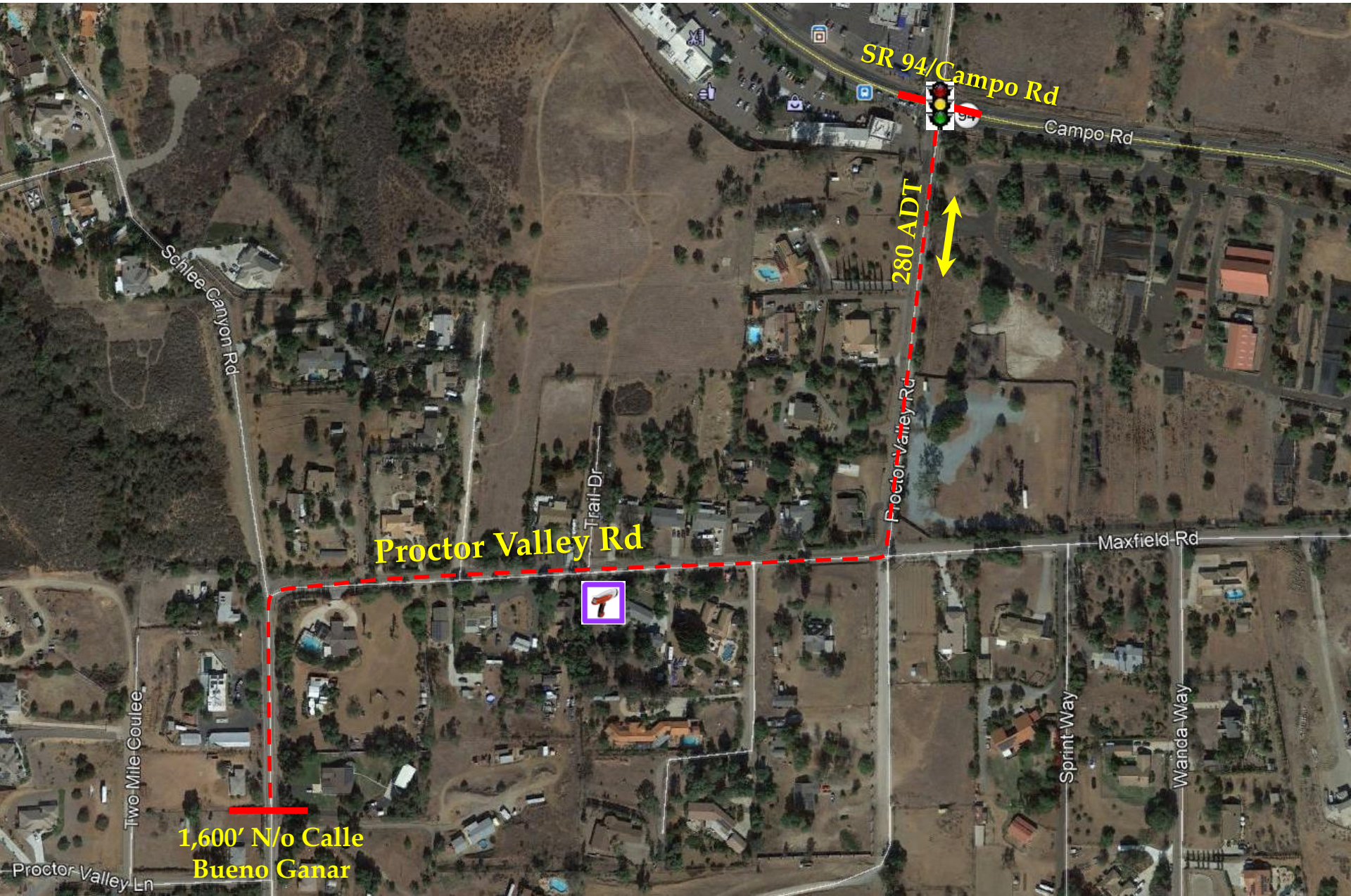
<u>Speed Data</u>		<u>85th Percentile</u>	<u>10 MPH Pace</u>	<u>% in Pace</u>
Proctor Valley Road				
650' W/o Maxfield Rd	(2018)	43.4 MPH	34-43	79.0%
	(2011)	42.0 MPH	29-38	67.6%

Collision Data

There have been 8 reported collisions along this segment of roadway, 2 of which involved injury, in a 5 year period (8-1-13 to 7-31-18). These collisions result in a segment accident rate of 3.04 collisions per million vehicle miles. The statewide average is 1.80 collisions per million vehicle miles for similar suburban conventional 2 lanes or less with speed limit less than 45 miles per hour.

2-A. Radar Certification

Proctor Valley Rd fr SR 94 to 1,600 ft N/o Calle Bueno Ganar (0.54 miles)



VOLUME

Proctor Valley Rd 300' S/O SR-94

Day: Tuesday
Date: 4/10/2018City: Jamul
Project #: CA18_4120_008

DAILY TOTALS					NB	SB						EB	WB						Total
					1,379	1,296						0	0						2,675
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL							
00:00	0	4			4		12:00	21	17			38							
00:15	0	2			2		12:15	20	12			32							
00:30	0	2			2		12:30	11	16			27							
00:45	1	1	3	11	4	12	12:45	14	66	13	58	27	124						
01:00	0	2			2		13:00	22	20			42							
01:15	1	1			2		13:15	24	13			37							
01:30	1	0			1		13:30	22	19			41							
01:45	0	2	1	4	1	6	13:45	22	90	18	70	40	160						
02:00	0	2			2		14:00	13	18			31							
02:15	0	0			0		14:15	24	18			42							
02:30	0	0			0		14:30	25	23			48							
02:45	3	3	2	4	5	7	14:45	22	84	36	95	58	179						
03:00	1	0			1		15:00	27	34			61							
03:15	0	0			0		15:15	29	25			54							
03:30	0	0			0		15:30	21	39			60							
03:45	3	4	0		3	4	15:45	25	102	35	133	60	235						
04:00	3	0			3		16:00	22	34			56							
04:15	3	0			3		16:15	21	25			46							
04:30	7	0			7		16:30	13	23			36							
04:45	10	23	0		10	23	16:45	19	75	32	114	51	189						
05:00	11	1			12		17:00	18	28			46							
05:15	14	1			15		17:15	15	30			45							
05:30	12	4			16		17:30	16	26			42							
05:45	18	55	2	8	20	63	17:45	19	68	26	110	45	178						
06:00	20	2			22		18:00	21	24			45							
06:15	18	6			24		18:15	22	27			49							
06:30	30	8			38		18:30	11	24			35							
06:45	31	99	10	26	41	125	18:45	15	69	30	105	45	174						
07:00	41	16			57		19:00	17	17			34							
07:15	33	13			46		19:15	14	33			47							
07:30	35	18			53		19:30	15	19			34							
07:45	40	149	14	61	54	210	19:45	6	52	22	91	28	143						
08:00	27	12			39		20:00	1	12			13							
08:15	22	11			33		20:15	8	23			31							
08:30	25	12			37		20:30	6	19			25							
08:45	32	106	21	56	53	162	20:45	6	21	23	77	29	98						
09:00	27	13			40		21:00	4	12			16							
09:15	24	13			37		21:15	8	16			24							
09:30	31	10			41		21:30	9	5			14							
09:45	23	105	12	48	35	153	21:45	2	23	8	41	10	64						
10:00	29	14			43		22:00	3	8			11							
10:15	18	15			33		22:15	1	9			10							
10:30	18	18			36		22:30	3	6			9							
10:45	26	91	21	68	47	159	22:45	2	9	5	28	7	37						
11:00	17	14			31		23:00	0	5			5							
11:15	16	16			32		23:15	1	4			5							
11:30	21	21			42		23:30	0	3			3							
11:45	26	80	25	76	51	156	23:45	1	2	0	12	1	14						
TOTALS	718	362			1080		TOTALS	661	934			1595							
SPLIT %	66.5%	33.5%			40.4%		SPLIT %	41.4%	58.6%			59.6%							

DAILY TOTALS					NB	SB						EB	WB						Total
					1,379	1,296						0	0						2,675
AM Peak Hour	07:00	11:15			07:00		PM Peak Hour	14:30	14:45			15:00							
AM Pk Volume	149	79			210		PM Pk Volume	103	134			235							
Pk Hr Factor	0.909	0.790			0.921		Pk Hr Factor	0.888	0.859			0.963							
7 - 9 Volume	255	117	0	0	372		4 - 6 Volume	143	224	0	0	367							
7 - 9 Peak Hour	07:00	07:00			07:00		4 - 6 Peak Hour	16:00	16:45			16:00							
7 - 9 Pk Volume	149	61	0	0	210		4 - 6 Pk Volume	75	116	0	0	189							
Pk Hr Factor	0.909	0.847	0.000	0.000	0.921		Pk Hr Factor	0.852	0.906	0.000	0.000	0.844							



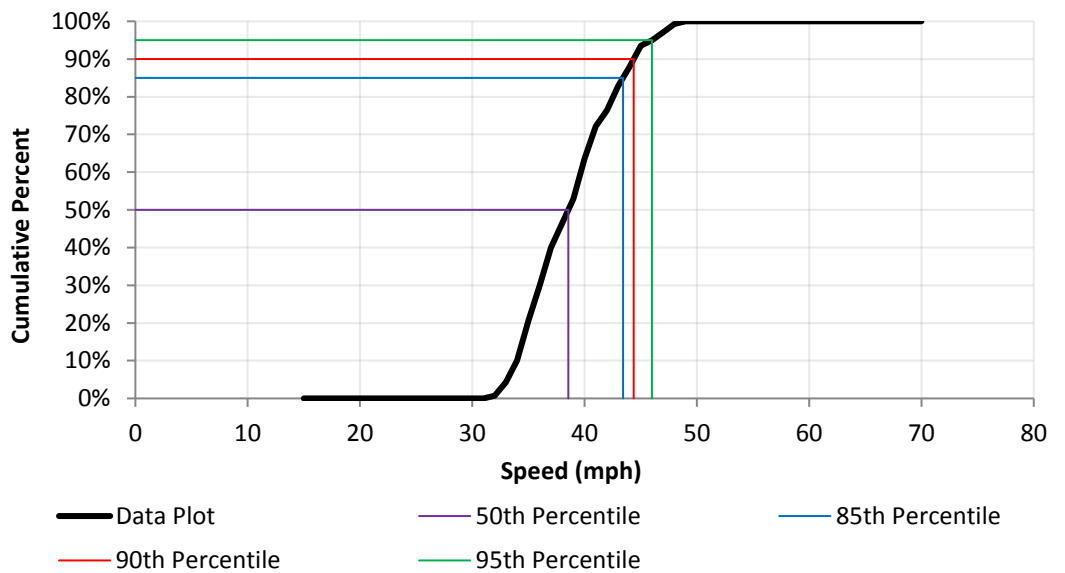
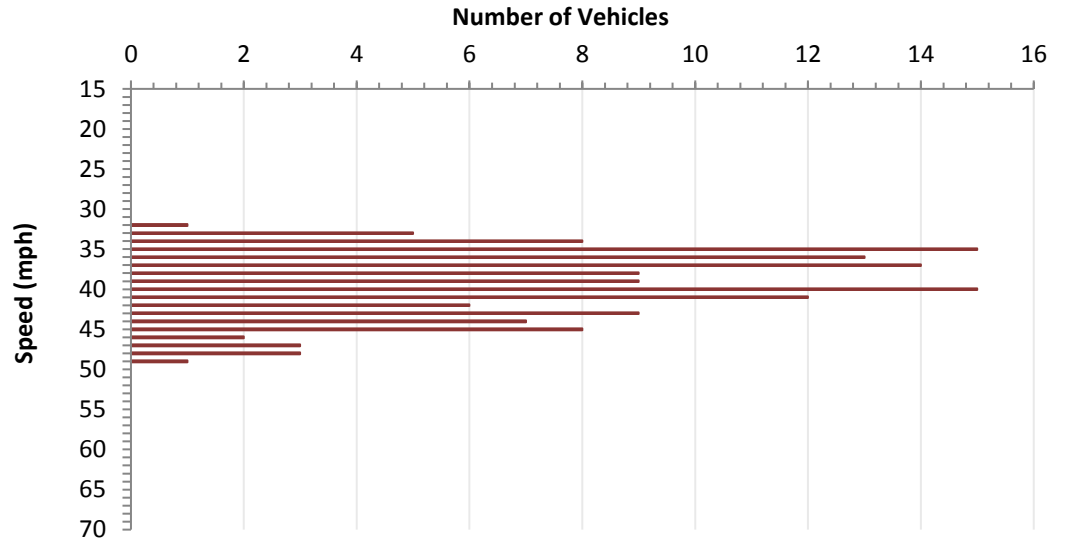
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Proctor Valley Rd	From:	SR 94	To:	1,600' N/o CalleBueno Ganar
Position:	650' W/o Maxfield Rd	Direction:	EB/WB		

Date:	4/19/2018	Weather:	Clear	Project Number:	18-4121-019
Time Start:	9:30 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	11:30 AM	Posted Speed:	40	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32	1	0.7%
33	5	4.3%
34	8	10.0%
35	15	20.7%
36	13	30.0%
37	14	40.0%
38	9	46.4%
39	9	52.9%
40	15	63.6%
41	12	72.1%
42	6	76.4%
43	9	82.9%
44	7	87.9%
45	8	93.6%
46	2	95.0%
47	3	97.1%
48	3	99.3%
49	1	100.0%
50		
51		
52		
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	140	



DATA ANALYSIS

Average Speed	39.3	Range	32 - 49
50th Percentile	38.6	10 mph Pace	34 - 43
85th Percentile	43.4	Number in Pace	110
90th Percentile	44.4	Percent in Pace	79%
95th Percentile	46.0		

SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: December 14, 2018

Item **2-B**

SUPERVISORIAL DISTRICT: 2

SUBJECT: Radar Recertification

LOCATION: Paradise Valley Road from the San Diego City Limit to
Elkelton Boulevard (0.89 miles) SPRING VALLEY
(Thos. Bros. 1290-H5)

INITIATED BY: DPW Traffic Engineering

REQUEST: Radar Recertification

PROBLEM AS STATED BY REQUESTER:

Paradise Valley Road from the San Diego City Limit to Elkelton Boulevard is posted 45 MPH Radar Enforced. Preliminary review of prevailing speeds and roadway conditions could support radar recertification.

Existing Traffic Devices

Paradise Valley Road is a striped four-lane Through Highway that measures 82 feet in width. There is a two-way left turn lane separating both directions of travel. There are also bike lanes along both sides of the roadway. The road is classified as a Major Road on the County General Plan Mobility Element Network. Paradise Valley Road is posted 45 MPH/Radar Enforced.

Average Daily Traffic Volumes

	<u>04/18</u>	<u>09/11</u>
Paradise Valley Road:		
400' E/o Worthington Street	25,780	22,900

<u>Speed Data</u>		<u>85th Percentile</u>	<u>10 MPH Pace</u>	<u>% in Pace</u>
Paradise Valley Road				
at Bluffview Rd	(2018)	48.8 MPH	39-48	72.0%
	(2011)	46.0 MPH	37-46	76.8%
1,340' W/o Elkelton Blvd	(2018)	49.9 MPH	41-50	67.0%
	(2011)	47.4 MPH	38-47	76.6%
Speed Zone	(2018)	49.4 MPH	40-49	69.5%

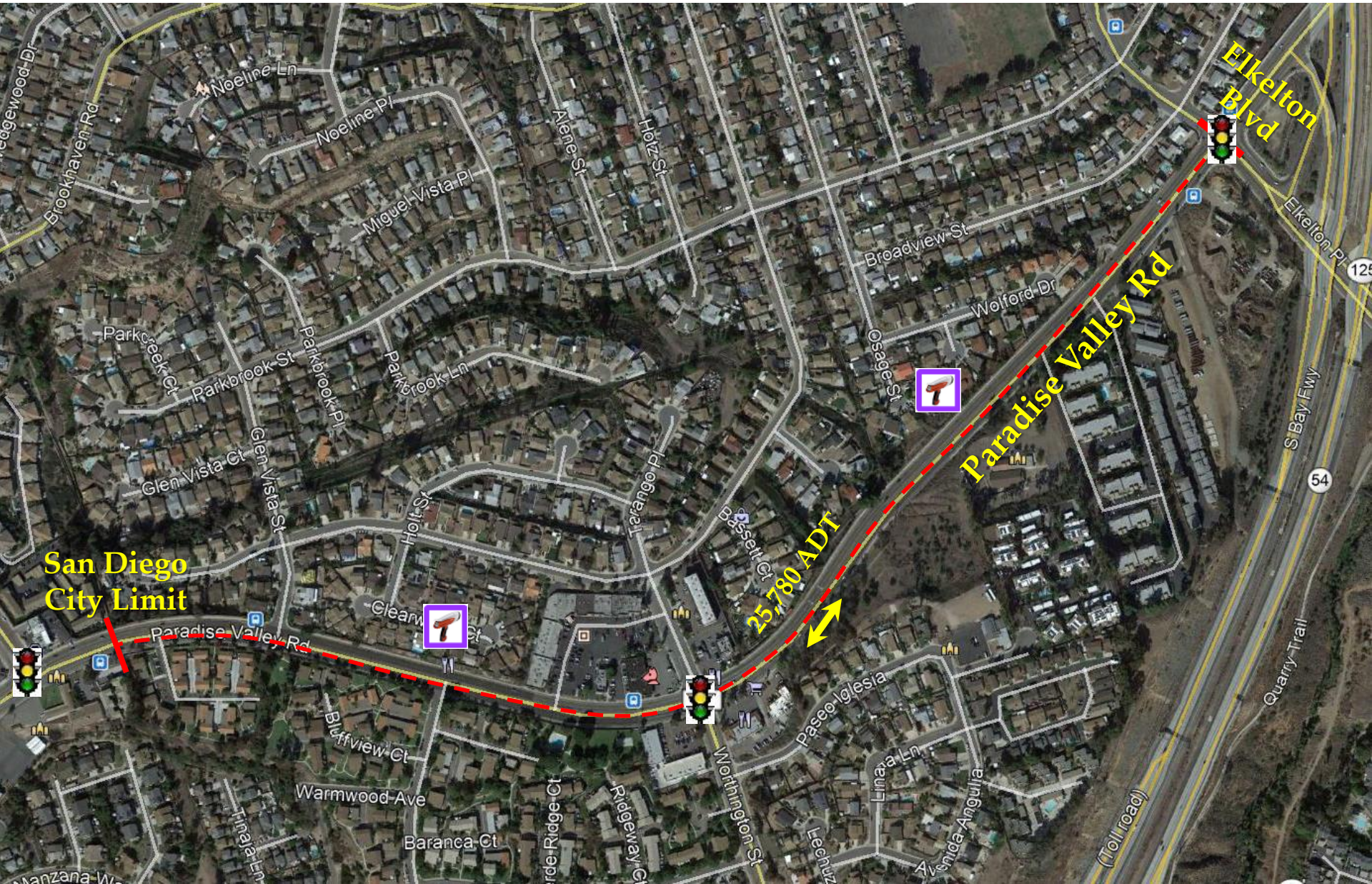
Collision Data

There have been 22 reported collisions along this segment of roadway, 5 of which involved injury, in a 2 year period (8-1-16 to 7-31-18). These collisions result in a segment

accident rate of 1.32 collisions per million vehicle miles. The statewide average is 1.42 collisions per million vehicle miles for similar suburban divided 4 lanes with speed limit less than or equal to 55 mph.

2-B. Radar Recertification

Paradise Valley Rd fr the SD City Limit to Elkelton Blvd (0.89 miles)



VOLUME

Paradise Valley Rd 400' E/O Worthington St

Day: Tuesday
Date: 4/17/2018City: Spring Valley
Project #: CA18_4120_010

DAILY TOTALS					NB	SB	EB					WB	Total				
					0	0	13,037					12,741	25,778				
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL					
00:00			23	44	67		12:00			163	147	310					
00:15			19	50	69		12:15			137	155	292					
00:30			15	31	46		12:30			192	146	338					
00:45			23	80	24	149	12:45			161	653	187	635				
01:00			17	28	45		13:00			154	170	324					
01:15			15	22	37		13:15			203	196	399					
01:30			5	14	19		13:30			190	178	368					
01:45			7	44	18	82	13:45			190	737	207	751				
02:00			5	19	24		14:00			203	192	395					
02:15			4	13	17		14:15			222	197	419					
02:30			11	13	24		14:30			241	206	447					
02:45			4	24	12	57	14:45			213	879	239	834				
03:00			12	7	19		15:00			237	225	462					
03:15			17	10	27		15:15			214	231	445					
03:30			14	15	29		15:30			207	235	442					
03:45			23	66	14	46	15:45			239	897	261	952				
04:00			21	19	40		16:00			220	255	475					
04:15			33	11	44		16:15			224	296	520					
04:30			54	17	71		16:30			222	255	477					
04:45			49	157	18	65	16:45			227	893	271	1077				
05:00			74	28	102		17:00			235	266	501					
05:15			96	23	119		17:15			262	263	525					
05:30			119	47	166		17:30			219	275	494					
05:45			153	442	57	155	17:45			217	933	261	1065				
06:00			191	59	250		18:00			200	268	468					
06:15			215	77	292		18:15			199	235	434					
06:30			236	126	362		18:30			217	256	473					
06:45			287	929	146	408	18:45			200	816	218	977				
07:00			231	194	425		19:00			147	202	349					
07:15			279	180	459		19:15			150	212	362					
07:30			260	170	430		19:30			158	160	318					
07:45			217	987	187	731	19:45			147	602	156	730				
08:00			193	179	372		20:00			108	145	253					
08:15			222	176	398		20:15			121	149	270					
08:30			170	153	323		20:30			107	175	282					
08:45			181	766	126	634	20:45			128	464	127	596				
09:00			182	144	326		21:00			96	134	230					
09:15			181	108	289		21:15			102	115	217					
09:30			170	136	306		21:30			91	133	224					
09:45			130	663	129	517	21:45			63	352	120	502				
10:00			164	124	288		22:00			72	112	184					
10:15			165	128	293		22:15			54	89	143					
10:30			157	124	281		22:30			54	89	143					
10:45			155	641	129	505	22:45			49	229	79	369				
11:00			142	148	290		23:00			38	65	103					
11:15			156	169	325		23:15			37	73	110					
11:30			173	166	339		23:30			38	62	100					
11:45			168	639	153	636	23:45			31	144	68	268				
TOTALS			5438	3985	9423		TOTALS			7599	8756	16355					
SPLIT %			57.7%	42.3%	36.6%		SPLIT %			46.5%	53.5%	63.4%					

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						13,037	12,741						25,778
AM Peak Hour			06:45	07:00	06:45		PM Peak Hour			16:30	16:15	16:45							
AM Pk Volume			1057	731	1747		PM Pk Volume			946	1088	2018							
Pk Hr Factor			0.921	0.942	0.952		Pk Hr Factor			0.903	0.919	0.961							
7 - 9 Volume	0	0	1753	1365	3118		4 - 6 Volume	0	0	1826	2142	3968							
7 - 9 Peak Hour			07:00	07:00	07:00		4 - 6 Peak Hour			16:30	16:15	16:45							
7 - 9 Pk Volume	0	0	987	731	1718		4 - 6 Pk Volume	0	0	946	1088	2018							
Pk Hr Factor	0.000	0.000	0.884	0.942	0.936		Pk Hr Factor	0.000	0.000	0.903	0.919	0.961							



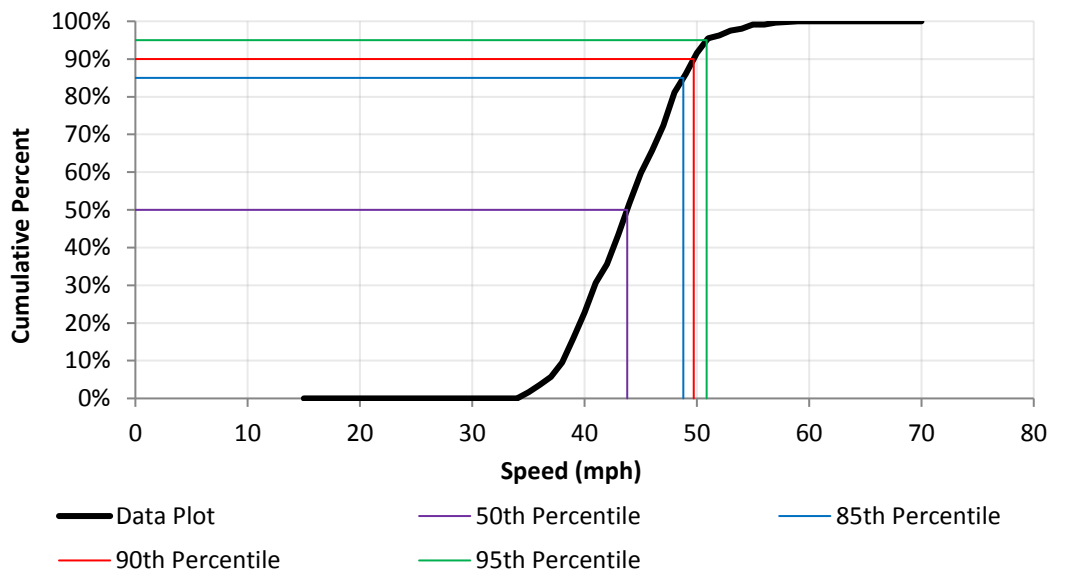
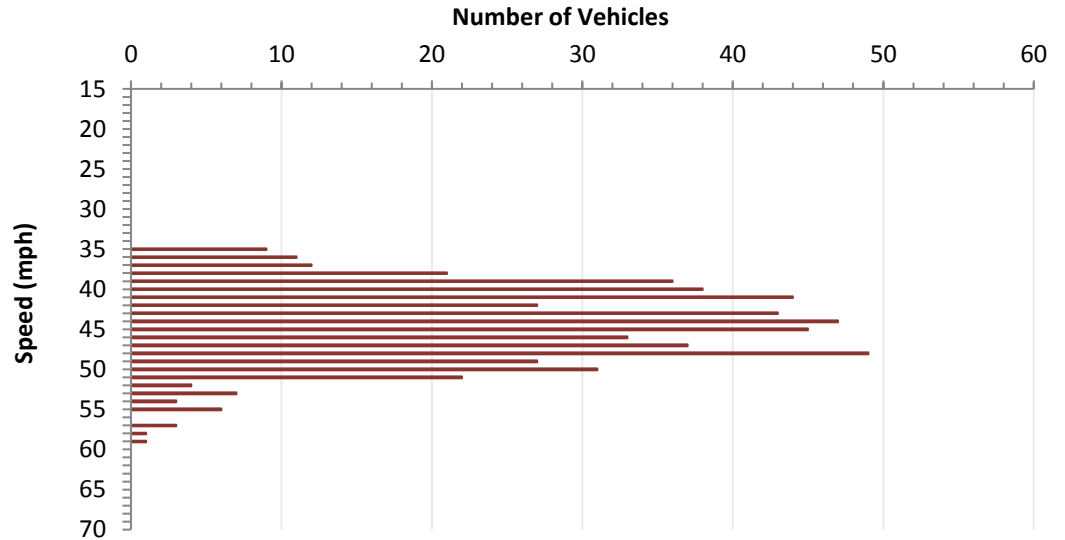
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Paradise Valley Rd	From:	SD City Limit	To:	Elkelton Blvd
Position:	At Bluffview Rd	Direction:	EB/WB		

Date:	4/11/2018	Weather:	Clear	Project Number:	18-4121-020
Time Start:	11:00 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	1:00 PM	Posted Speed:	None	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35	9	1.6%
36	11	3.6%
37	12	5.7%
38	21	9.5%
39	36	16.0%
40	38	22.8%
41	44	30.7%
42	27	35.5%
43	43	43.3%
44	47	51.7%
45	45	59.8%
46	33	65.7%
47	37	72.4%
48	49	81.1%
49	27	86.0%
50	31	91.6%
51	22	95.5%
52	4	96.2%
53	7	97.5%
54	3	98.0%
55	6	99.1%
56		
57	3	99.6%
58	1	99.8%
59	1	100.0%
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	557	



DATA ANALYSIS

Average Speed	44.4	Range	35 - 59
50th Percentile	43.8	10 mph Pace	39 - 48
85th Percentile	48.8	Number in Pace	399
90th Percentile	49.7	Percent in Pace	72%
95th Percentile	50.9		



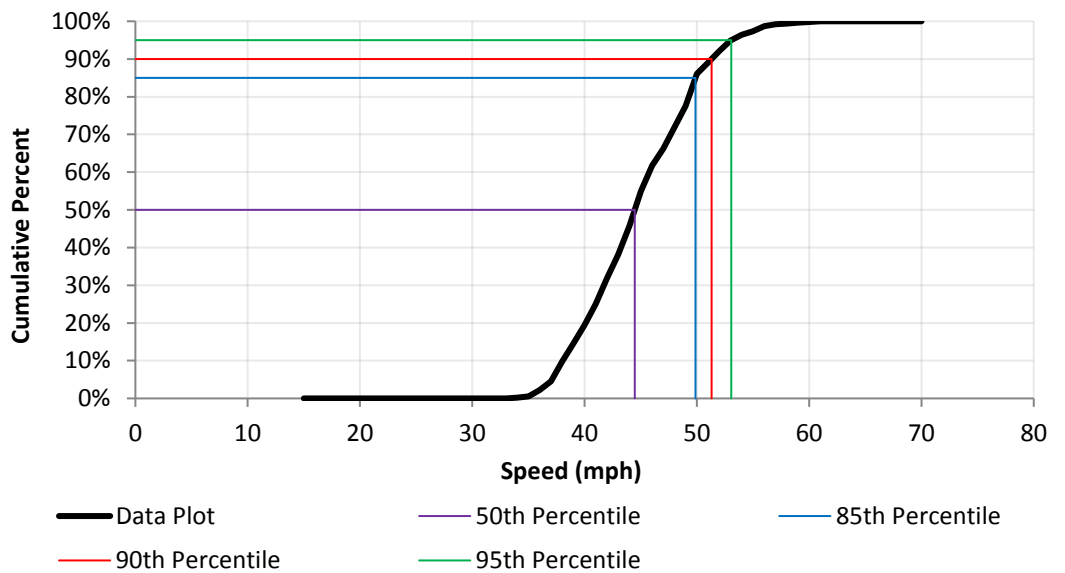
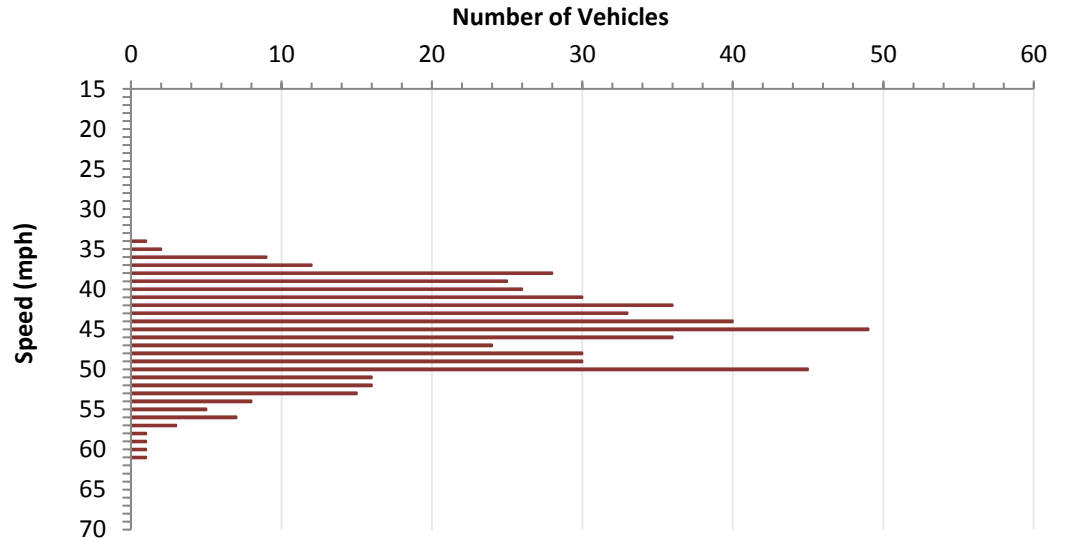
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Paradise Valley Rd	From:	SD City Limit	To:	Elkelton Boulevard
Position:	1,340' W/o Elkelton Blvd	Direction:	EB/WB		

Date:	4/11/2018	Weather:	Clear	Project Number:	18-4121-021
Time Start:	1:00 PM	Road Condition:	Dry	Observer:	Contractor
Time End:	3:00 PM	Posted Speed:	45	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34	1	0.2%
35	2	0.6%
36	9	2.3%
37	12	4.5%
38	28	9.8%
39	25	14.5%
40	26	19.4%
41	30	25.1%
42	36	31.9%
43	33	38.1%
44	40	45.7%
45	49	54.9%
46	36	61.7%
47	24	66.2%
48	30	71.9%
49	30	77.5%
50	45	86.0%
51	16	89.1%
52	16	92.1%
53	15	94.9%
54	8	96.4%
55	5	97.4%
56	7	98.7%
57	3	99.2%
58	1	99.4%
59	1	99.6%
60	1	99.8%
61	1	100.0%
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	530	



DATA ANALYSIS

Average Speed	45.2	Range	34 - 61
50th Percentile	44.5	10 mph Pace	41 - 50
85th Percentile	49.9	Number in Pace	353
90th Percentile	51.3	Percent in Pace	67%
95th Percentile	53.1		

SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: December 14, 2018 **Item 2-C**

SUPERVISORIAL DISTRICT: 2

SUBJECT: Temporary Road Closure

LOCATION: Whitestone Road, from a point 130 feet north of Lake Ridge Court northerly to the end of County maintenance, SPRING VALLEY (Thos. Bros. 1291-E2)

INITIATED BY: Traffic Engineering

REQUEST: Temporary Road Closure

PROBLEM AS STATED BY REQUESTER:

This item would be the establishment of a temporary road closure on Whitestone Road as a result of serious and continual criminal activity and illegal dumping. The California Vehicle Code Section 21101.4 allows for a local authority to adopt rules and regulations for the temporary closing to through traffic a highway under its jurisdiction when specific criteria exist including serious and continual criminal activity and illegal dumping. There has been joint recommendation made by the Department of the Sheriff and the California Highway Patrol for such a closure on this portion of Whitestone Road. Utility Districts and Emergency Services will be given access to the proposed closed section for maintenance and emergency service. The resolution enacting the temporary road closure dictates this closure may be extended for a total of eight additional consecutive periods of not more than 18 months each where a public hearing is held and the same findings be made.

DATA:

Whitestone Road is a striped two-lane roadway that measures 40-64 feet in width with a two way left turn median and parking on both sides of the road. Whitestone Road from 130 feet north of Lake Ridge Court northerly to the end of County maintenance, is a portion being proposed to be closed. The segment is a 40-foot wide residential roadway with parking along both sides. Whitestone Road is unclassified on the County General Plan Mobility Element Network. The road does not have a posted speed limit.

2-C. Temporary Road Closure

Whitestone Rd fr 130 ft N/o Lake Ridge Ct to the end of County Maintenance (150 feet)



SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: December 14, 2018

Item **2-D**

SUPERVISORIAL DISTRICT: 2

SUBJECT: Radar Recertification

LOCATION: Via Rancho San Diego from Fury Lane to Brabham Street (0.54 miles) RANCHO SAN DIEGO (Thos. Bros. 1272-A5)

INITIATED BY: DPW Traffic Engineering

REQUEST: Radar Recertification

PROBLEM AS STATED BY REQUESTER:

Via Rancho San Diego from Fury Lane to Brabham Street is posted 35 MPH Radar Enforced. Preliminary review of prevailing speeds and roadway conditions could support radar recertification.

Existing Traffic Devices

Via Rancho San Diego is a striped two-lane roadway that measures 68 feet in width. There is a signalized mid-block crosswalk connecting a large senior citizen housing development and commercial shopping center. There is a two-way left-turn lane separating both directions of travel. The road is unclassified on the County General Plan Mobility Element Network and posted 35 MPH/Radar Enforced.

Average Daily Traffic Volumes

Via Rancho San Diego:

300' E/o Fury Lane

04/18

6,240

04/11

4,850

Speed Data

Via Rancho San Diego

1,700' S/o Brabham St

(2018)

(2011)

**85th
Percentile**

39.6 MPH

38.3 MPH

**10 MPH
Pace**

31-40

28-37

**% in
Pace**

77.0%

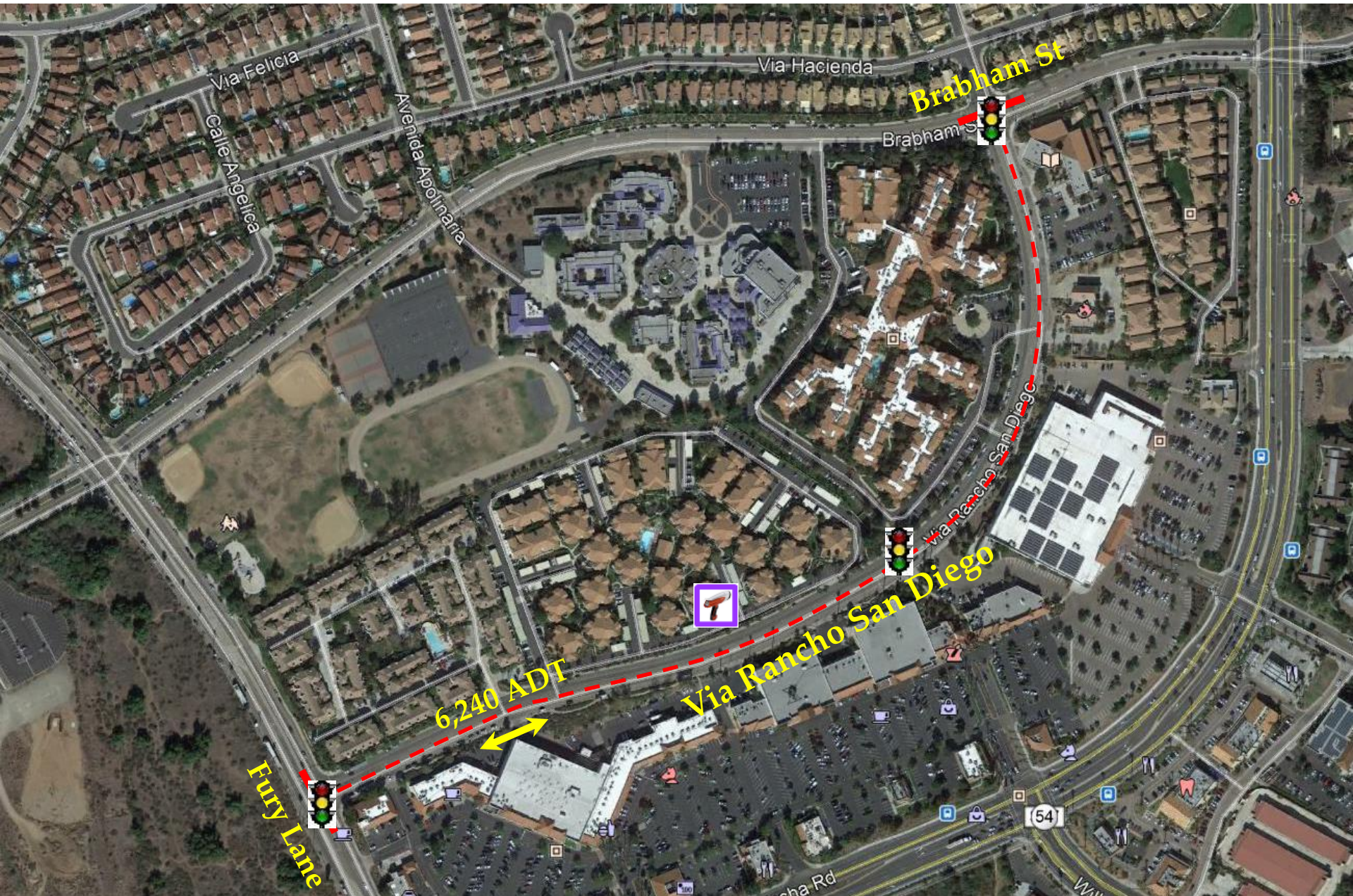
70.9%

Collision Data

There have been 15 reported collisions along this segment of roadway, 6 of which involved injury, in a 5 year and 1 month period (7-1-13 to 7-31-18). These collisions result in a segment accident rate of 2.4 collisions per million vehicle miles. The statewide average is 1.8 collisions per million vehicle miles for similar suburban conventional 2 lanes or less with speed less than 45 MPH.

2-D. Radar Certification

Via Rancho San Diego from Fury Lane to Brabham St (0.54 miles)



VOLUME

Via Rancho San Diego 300' E/O Fury Ln

Day: Tuesday
Date: 4/10/2018City: Rancho San Diego
Project #: CA18_4120_003

DAILY TOTALS					NB	SB						EB	WB	Total	
					0	0						3,278	2,960	6,238	
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL			
00:00			11	7	18		12:00			55	50	105			
00:15			8	1	9		12:15			82	43	125			
00:30			2	3	5		12:30			59	49	108			
00:45			2	23	1	12	12:45			57	253	41	183	98	436
01:00			6	7	13		13:00			54	46	100			
01:15			1	0	1		13:15			36	38	74			
01:30			1	0	1		13:30			59	40	99			
01:45			4	12	0	7	13:45			53	202	42	166	95	368
02:00			3	5	8		14:00			56	47	103			
02:15			2	1	3		14:15			75	65	140			
02:30			0	0	0		14:30			57	47	104			
02:45			1	6	0	6	14:45			55	243	35	194	90	437
03:00			1	2	3		15:00			71	53	124			
03:15			4	2	6		15:15			65	57	122			
03:30			5	3	8		15:30			93	99	192			
03:45			0	10	1	8	15:45			81	310	83	292	164	602
04:00			0	2	2		16:00			74	53	127			
04:15			0	2	2		16:15			67	38	105			
04:30			2	3	5		16:30			66	49	115			
04:45			2	4	4	11	16:45			37	244	38	178	75	422
05:00			2	7	9		17:00			53	45	98			
05:15			2	18	20		17:15			71	47	118			
05:30			6	13	19		17:30			74	49	123			
05:45			4	14	7	45	17:45			88	286	44	185	132	471
06:00			11	15	26		18:00			54	55	109			
06:15			15	17	32		18:15			60	45	105			
06:30			12	32	44		18:30			73	53	126			
06:45			23	61	41	105	18:45			60	247	44	197	104	444
07:00			21	41	62		19:00			60	21	81			
07:15			24	43	67		19:15			69	43	112			
07:30			24	40	64		19:30			70	27	97			
07:45			25	94	34	158	19:45			45	244	40	131	85	375
08:00			30	63	93		20:00			40	37	77			
08:15			35	69	104		20:15			49	28	77			
08:30			39	109	148		20:30			37	14	51			
08:45			56	160	119	360	20:45			21	147	14	93	35	240
09:00			53	54	107		21:00			18	14	32			
09:15			41	39	80		21:15			22	14	36			
09:30			62	35	97		21:30			9	16	25			
09:45			39	195	36	164	21:45			19	68	16	60	35	128
10:00			39	47	86		22:00			16	15	31			
10:15			47	27	74		22:15			11	6	17			
10:30			46	47	93		22:30			11	8	19			
10:45			32	164	34	155	22:45			11	49	16	45	27	94
11:00			50	45	95		23:00			15	20	35			
11:15			33	36	69		23:15			10	10	20			
11:30			45	45	90		23:30			12	6	18			
11:45			73	201	37	163	23:45			4	41	6	42	10	83
TOTALS			944	1194	2138		TOTALS			2334	1766	4100			
SPLIT %			44.2%	55.8%	34.3%		SPLIT %			56.9%	43.1%	65.7%			

DAILY TOTALS					NB	SB						EB	WB	Total	
					0	0						3,278	2,960	6,238	
AM Peak Hour			11:45	08:00	08:15		PM Peak Hour			15:30	15:00	15:15			
AM Pk Volume			269	360	534		PM Pk Volume			315	292	605			
Pk Hr Factor			0.820	0.756	0.763		Pk Hr Factor			0.847	0.737	0.788			
7 - 9 Volume	0	0	254	518	772		4 - 6 Volume	0	0	530	363	893			
7 - 9 Peak Hour			08:00	08:00	08:00		4 - 6 Peak Hour			17:00	17:00	17:00			
7 - 9 Pk Volume	0	0	160	360	520		4 - 6 Pk Volume	0	0	286	185	471			
Pk Hr Factor	0.000	0.000	0.714	0.756	0.743		Pk Hr Factor	0.000	0.000	0.813	0.944	0.892			



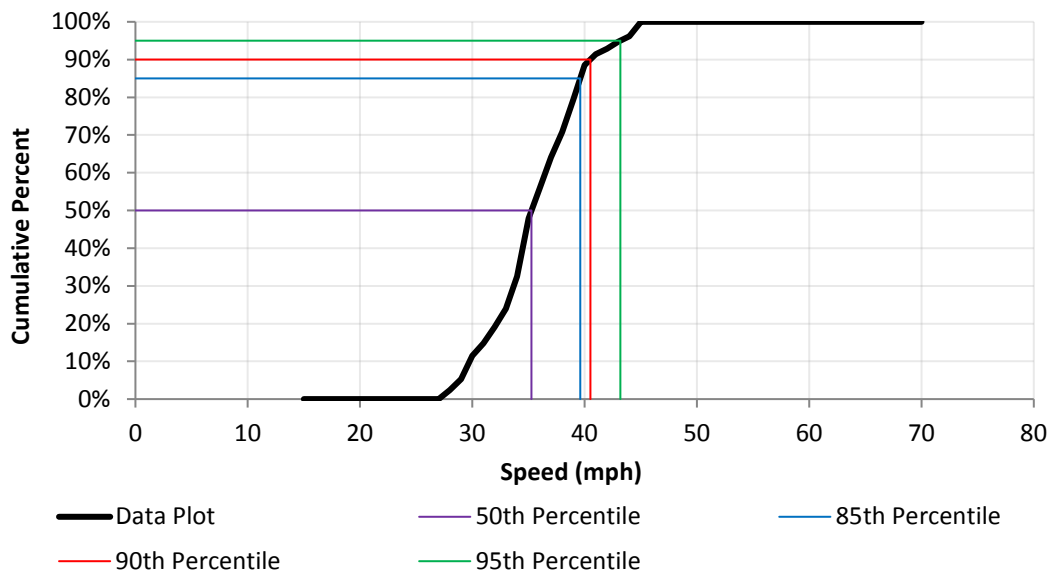
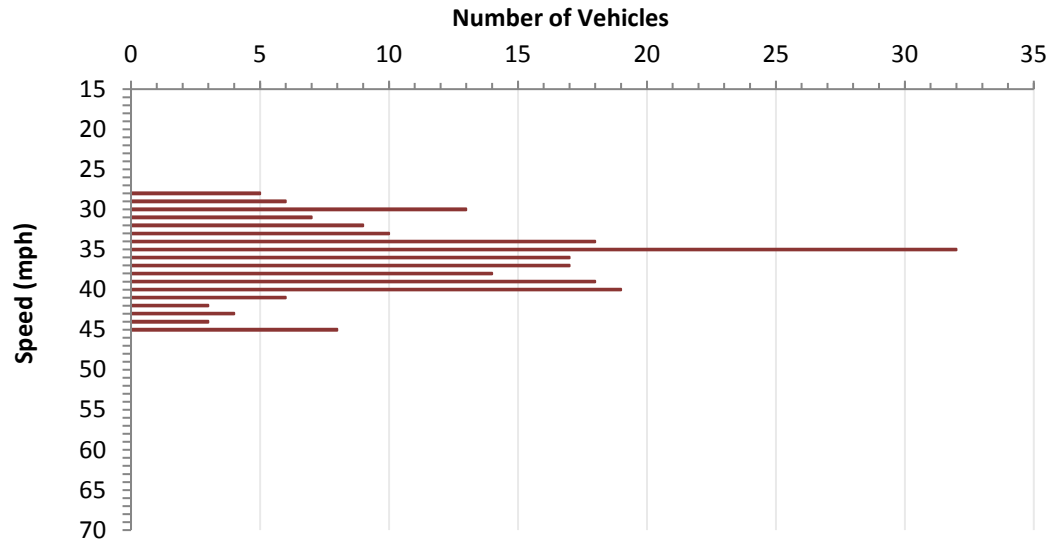
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Via Rancho San Diego	From:	Fury Lane	To:	Brabham Street
Position:	1,700' SO Brabham St	Direction:	EB/WB		

Date:	4/4/2018	Weather:	Clear	Project Number:	0
Time Start:	11:00 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	1:00 PM	Posted Speed:	35 mph	Calibration Test:	0

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28	5	2.4%
29	6	5.3%
30	13	11.5%
31	7	14.8%
32	9	19.1%
33	10	23.9%
34	18	32.5%
35	32	47.8%
36	17	56.0%
37	17	64.1%
38	14	70.8%
39	18	79.4%
40	19	88.5%
41	6	91.4%
42	3	92.8%
43	4	94.7%
44	3	96.2%
45	8	100.0%
46		
47		
48		
49		
50		
51		
52		
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	209	



DATA ANALYSIS

Average Speed	36.1	Range	28 - 45
50th Percentile	35.3	10 mph Pace	31 - 40
85th Percentile	39.6	Number in Pace	161
90th Percentile	40.5	Percent in Pace	77%
95th Percentile	43.2		

SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: December 14, 2018

Item 2-E

SUPERVISORIAL DISTRICT: 2

SUBJECT: Radar Recertification

LOCATION: Calle Albara from Jamacha Road to Wieghorst Way
(0.63 miles) RANCHO SAN DIEGO (Thos. Bros. 1272-A4)

INITIATED BY: DPW Traffic Engineering

REQUEST: Radar Recertification

PROBLEM AS STATED BY REQUESTER:

Calle Albara from Jamacha Road to Wieghorst Way is posted 35 MPH Radar Enforced. Preliminary review of prevailing speeds and roadway conditions could support radar recertification.

Existing Traffic Devices

Calle Albara is a striped two-lane Through Highway that measures 40 feet in width. The appropriate school signs and pavement legends are in place in the vicinity of Rancho San Diego Elementary School. An all-way stop is located at the intersection of Avenida Apolinaria/Apolinaria Avenue. The road is unclassified on the County General Plan Mobility Element Network. The road is posted 35 MPH/Radar Enforced.

Average Daily Traffic Volumes

	<u>03/18</u>	<u>03/11</u>
Calle Albara		
600' E/o Avenida Apolinaria	5,375	3,430

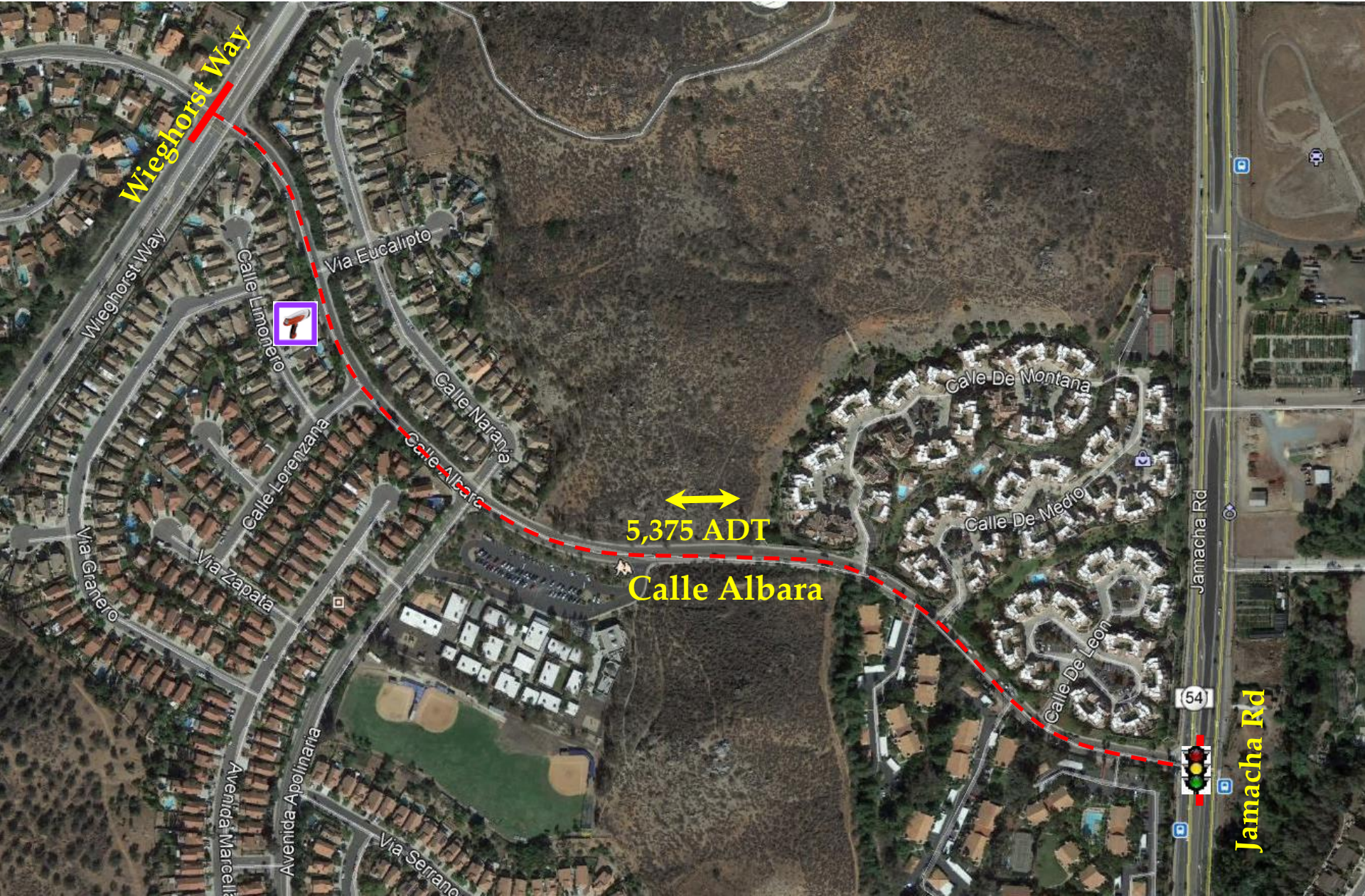
<u>Speed Data</u>		<u>85th Percentile</u>	<u>10 MPH Pace</u>	<u>% in Pace</u>
Calle Albara				
150' E/o Via Eucalipto	(2018)	37.0 MPH	28-37	83.0%
	(2011)	37.4 MPH	30-39	75.8%

Collision Data

There have been 16 reported collisions along this segment of roadway, 5 of which involved injury, in a 5 year period (8-1-14 to 7-31-18). These collisions result in a segment accident rate of 2.59 collisions per million vehicle miles. The statewide average is 1.80 collisions per million vehicle miles for similar suburban conventional 2 lanes or less with speed limit less than 45 miles per hour.

2-E. Radar Certification

Calle Albara from Jamacha Road to Wieghorst Way (0.63 miles)



VOLUME

Calle Albara 600' E/O Avenida Apolinaria

Day: Tuesday
Date: 3/13/2018City: El Cajon
Project #: CA18_4062_012

DAILY TOTALS					NB	SB	EB					WB	Total
					0	0	2,746					2,629	5,375
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL	
00:00			3	4	7		12:00			20	17	37	
00:15			3	5	8		12:15			20	25	45	
00:30			1	1	2		12:30			36	38	74	
00:45			1	8	1	11	12:45			30	106	24	104
01:00			3	1	4		13:00			23	29	52	
01:15			2	2	4		13:15			29	33	62	
01:30			1	1	2		13:30			29	47	76	
01:45			1	7	1	5	13:45			32	113	63	172
02:00			1	0	1		14:00			141	68	209	
02:15			1	2	3		14:15			82	28	110	
02:30			0	0	0		14:30			35	40	75	
02:45			2	4	2	4	14:45			36	294	33	169
03:00			1	0	1		15:00			60	58	118	
03:15			1	1	2		15:15			45	81	126	
03:30			2	0	2		15:30			134	66	200	
03:45			0	4	2	3	15:45			70	309	42	247
04:00			0	2	2		16:00			49	38	87	
04:15			0	2	2		16:15			39	53	92	
04:30			1	2	3		16:30			56	48	104	
04:45			2	3	4	10	16:45			55	199	49	188
05:00			6	8	14		17:00			47	30	77	
05:15			5	7	12		17:15			49	40	89	
05:30			7	16	23		17:30			45	48	93	
05:45			3	21	10	41	17:45			48	189	38	156
06:00			6	24	30		18:00			49	38	87	
06:15			6	19	25		18:15			68	21	89	
06:30			9	24	33		18:30			49	33	82	
06:45			29	50	35	102	18:45			50	216	33	125
07:00			48	45	93		19:00			45	27	72	
07:15			53	72	125		19:15			19	28	47	
07:30			54	115	169		19:30			23	19	42	
07:45			158	313	161	393	19:45			26	113	21	95
08:00			137	77	214		20:00			19	24	43	
08:15			58	72	130		20:15			22	20	42	
08:30			57	78	135		20:30			24	19	43	
08:45			59	311	81	308	20:45			17	82	12	75
09:00			22	35	57		21:00			20	17	37	
09:15			25	25	50		21:15			16	13	29	
09:30			22	45	67		21:30			21	11	32	
09:45			20	89	23	128	21:45			19	76	10	51
10:00			23	21	44		22:00			13	11	24	
10:15			17	22	39		22:15			20	15	35	
10:30			17	19	36		22:30			11	5	16	
10:45			19	76	25	87	22:45			8	52	4	35
11:00			26	25	51		23:00			2	1	3	
11:15			21	32	53		23:15			7	5	12	
11:30			16	25	41		23:30			10	4	14	
11:45			24	87	26	108	23:45			5	24	2	12
TOTALS			973	1200	2173		TOTALS			1773	1429	3202	
SPLIT %			44.8%	55.2%	40.4%		SPLIT %			55.4%	44.6%	59.6%	

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						2,746	2,629						5,375
AM Peak Hour			07:45	07:15	07:30		PM Peak Hour			15:00	15:00	15:00							15:00
AM Pk Volume			410	425	832		PM Pk Volume			309	247	556							556
Pk Hr Factor			0.649	0.660	0.652		Pk Hr Factor			0.576	0.762	0.695							0.695
7 - 9 Volume	0	0	624	701	1325		4 - 6 Volume	0	0	388	344	732							732
7 - 9 Peak Hour			07:45	07:15	07:30		4 - 6 Peak Hour			16:30	16:00	16:00							16:00
7 - 9 Pk Volume	0	0	410	425	832		4 - 6 Pk Volume	0	0	207	188	387							387
Pk Hr Factor	0.000	0.000	0.649	0.660	0.652		Pk Hr Factor	0.000	0.000	0.924	0.887	0.930							0.930



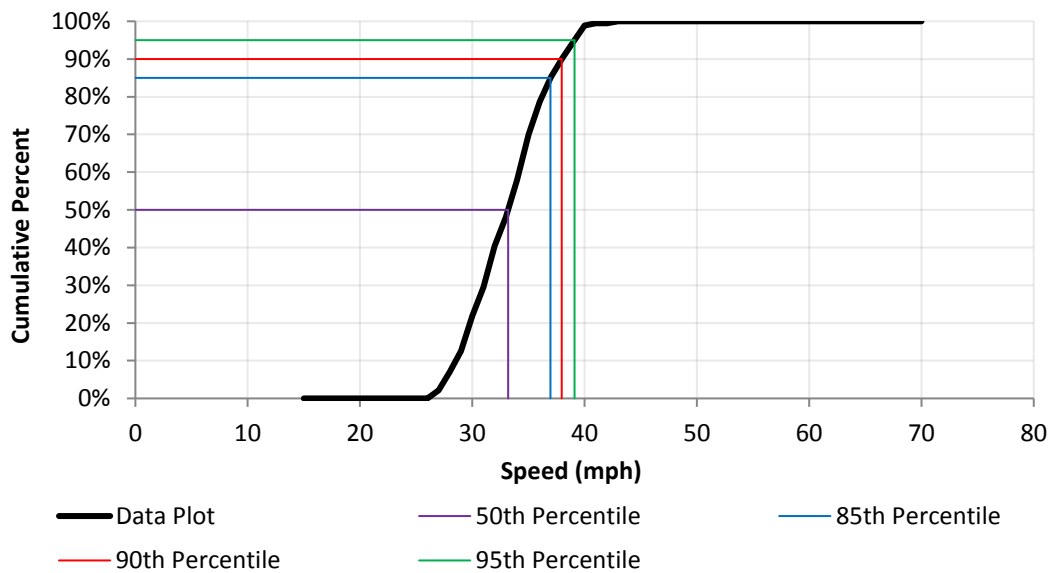
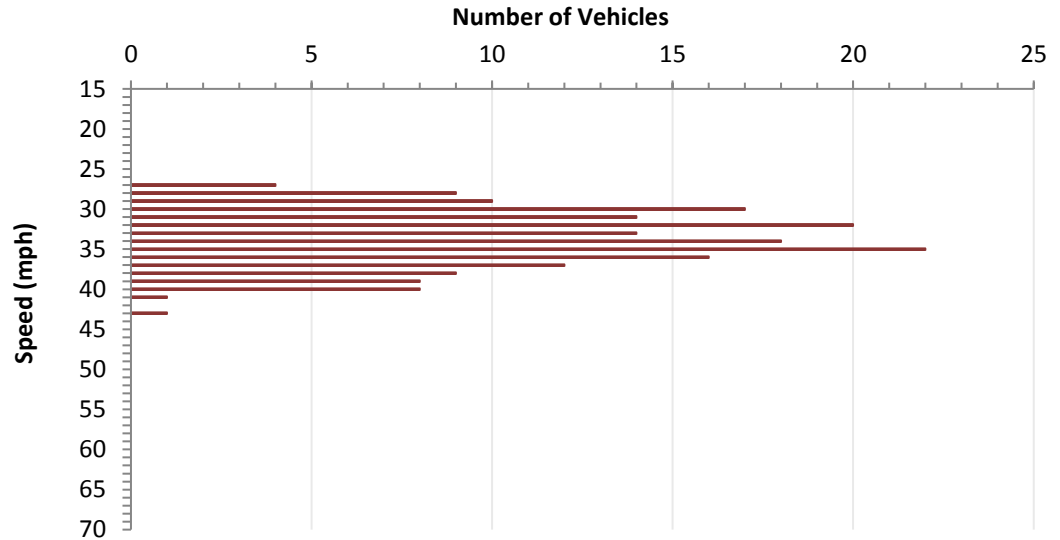
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Calle Albara	From:	Wieghorst Way	To:	Jamacha Rd
Position:	150' E/o Via Eucalipito	Direction:	EB/WB		

Date:	2/20/2018	Weather:	Clear	Project Number:	18-4053-005
Time Start:	9:00 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	11:00 AM	Posted Speed:	35 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27	4	2.2%
28	9	7.1%
29	10	12.6%
30	17	21.9%
31	14	29.5%
32	20	40.4%
33	14	48.1%
34	18	57.9%
35	22	69.9%
36	16	78.7%
37	12	85.2%
38	9	90.2%
39	8	94.5%
40	8	98.9%
41	1	99.5%
42		
43	1	100.0%
44		
45		
46		
47		
48		
49		
50		
51		
52		
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	183	



DATA ANALYSIS

Average Speed	33.6	Range	27 - 43
50th Percentile	33.2	10 mph Pace	28 - 37
85th Percentile	37.0	Number in Pace	152
90th Percentile	38.0	Percent in Pace	83%
95th Percentile	39.1		

SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: December 14, 2018 **Item 2-F**

SUPERVISORIAL DISTRICT: 2

SUBJECT: Radar Recertification

LOCATION: Wieghorst Way from Fury Lane to Calle Albara (0.60 miles) RANCHO SAN DIEGO (Thos. Bros. 1271-l4)

INITIATED BY: DPW Traffic Engineering

REQUEST: Radar Recertification

PROBLEM AS STATED BY REQUESTER:

Wieghorst Way from Fury Lane easterly to Calle Albara is posted 50 MPH Radar Enforced. Preliminary review of prevailing speeds and roadway conditions could support radar recertification.

Existing Traffic Devices

Wieghorst Way is a striped four-lane roadway that measures 82 feet in width. There is a planted median separating both directions of travel. The road is unclassified on the County General Plan Mobility Element Network. Wieghorst Way is posted 50 MPH/Radar Enforced

Average Daily Traffic Volumes

	<u>04/18</u>	<u>07/11</u>
Wieghorst Way		
200' E/o Fury Lane	8,460	5,000 (est)

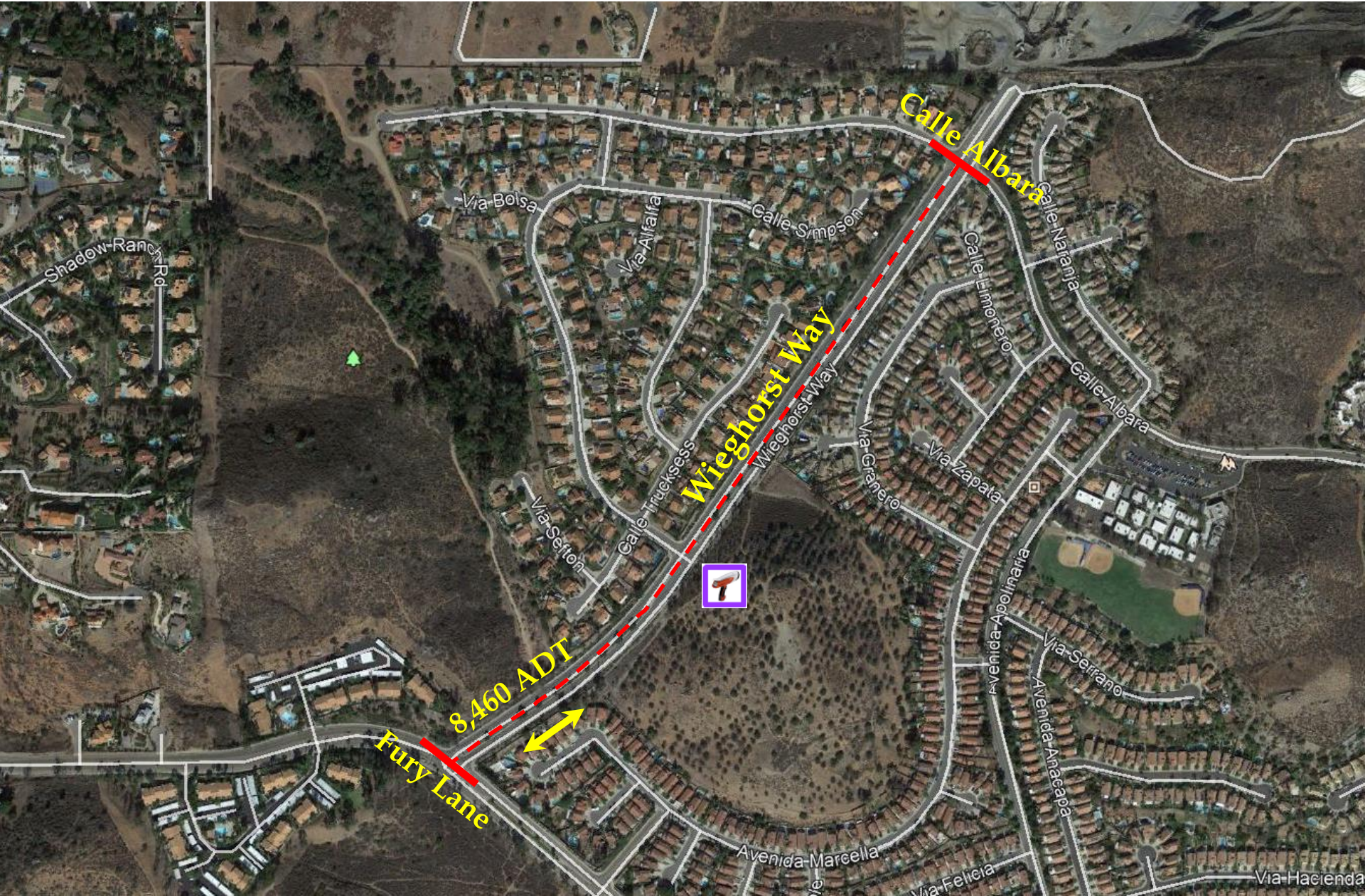
<u>Speed Data</u>		<u>85th Percentile</u>	<u>10 MPH Pace</u>	<u>% in Pace</u>
Wieghorst Way				
at Calle Simpson	(2018)	52.2 MPH	43-52	75.0%
	(2011)	52.1 MPH	44-53	78.0%

Collision Data

There have been 6 reported collisions along this segment of roadway, 4 of which involved injury, in a 6 year period (8-1-12 to 7-31-18). These collisions result in a segment accident rate of 0.54 collisions per million vehicle miles. The statewide average is 1.42 collisions per million vehicle miles for similar suburban divided 4 lanes with speed limit less than or equal to 55 mile per hour.

2-F. Radar Certification

Wieghorst Way from Fury Lane to Calle Albara (0.6 miles)



VOLUME

Wieghorst Way 200' E/O Fury Ln

Day: Tuesday
Date: 4/10/2018City: Rancho San Diego
Project #: CA18_4120_001

DAILY TOTALS					NB	SB						EB	WB	Total	
					0	0						3,989	4,471	8,460	
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL			
00:00			6	2	8		12:00			74	71	145			
00:15			3	1	4		12:15			86	75	161			
00:30			4	3	7		12:30			64	66	130			
00:45			4	17	5	24	12:45			64	288	121	557		
01:00			1	2	3		13:00			47	45	92			
01:15			1	1	2		13:15			67	44	111			
01:30			1	0	1		13:30			78	68	146			
01:45			0	3	0	6	13:45			97	289	144	493		
02:00			0	1	1		14:00			78	71	149			
02:15			1	2	3		14:15			70	66	136			
02:30			0	2	2		14:30			85	46	131			
02:45			0	1	1	7	14:45			89	322	143	559		
03:00			0	0	0		15:00			83	46	129			
03:15			0	2	2		15:15			91	60	151			
03:30			0	2	2		15:30			120	188	308			
03:45			0	4	4	8	15:45			82	376	158	746		
04:00			0	6	6		16:00			75	66	141			
04:15			0	3	3		16:15			63	73	136			
04:30			0	5	5		16:30			79	66	145			
04:45			3	3	13	27	16:45			86	303	170	592		
05:00			0	11	11		17:00			100	82	182			
05:15			0	12	12		17:15			70	92	162			
05:30			3	21	24		17:30			64	75	139			
05:45			9	12	43	90	17:45			79	313	163	646		
06:00			6	25	31		18:00			57	71	128			
06:15			7	29	36		18:15			48	68	116			
06:30			10	43	53		18:30			52	65	117			
06:45			16	39	63	183	18:45			67	224	106	467		
07:00			21	57	78		19:00			60	35	95			
07:15			29	83	112		19:15			35	28	63			
07:30			54	130	184		19:30			38	25	63			
07:45			74	178	277	651	19:45			59	192	84	305		
08:00			65	122	187		20:00			50	25	75			
08:15			90	111	201		20:15			55	22	77			
08:30			126	172	298		20:30			55	25	80			
08:45			138	419	339	1025	20:45			66	226	79	311		
09:00			38	142	180		21:00			56	15	71			
09:15			56	185	241		21:15			25	14	39			
09:30			47	71	118		21:30			23	18	41			
09:45			44	185	108	647	21:45			14	118	20	171		
10:00			29	42	71		22:00			20	9	29			
10:15			49	42	91		22:15			13	7	20			
10:30			44	75	119		22:30			12	2	14			
10:45			59	181	125	406	22:45			8	53	10	73		
11:00			44	43	87		23:00			4	5	9			
11:15			54	51	105		23:15			9	2	11			
11:30			35	40	75		23:30			7	2	9			
11:45			92	225	166	433	23:45			2	22	4	33		
TOTALS			1263	2244	3507		TOTALS			2726	2227	4953			
SPLIT %			36.0%	64.0%	41.5%		SPLIT %			55.0%	45.0%	58.5%			

DAILY TOTALS					NB	SB						EB	WB	Total	
					0	0						3,989	4,471	8,460	
AM Peak Hour			08:00	08:30	08:30		PM Peak Hour			14:45	15:30	15:15			
AM Pk Volume			419	700	1058		PM Pk Volume			383	403	758			
Pk Hr Factor			0.759	0.871	0.780		Pk Hr Factor			0.798	0.536	0.615			
7 - 9 Volume	0	0	597	1079	1676		4 - 6 Volume	0	0	616	622	1238			
7 - 9 Peak Hour			08:00	07:45	08:00		4 - 6 Peak Hour			16:30	16:45	16:30			
7 - 9 Pk Volume	0	0	419	608	1025		4 - 6 Pk Volume	0	0	335	333	659			
Pk Hr Factor	0.000	0.000	0.759	0.749	0.756		Pk Hr Factor	0.000	0.000	0.838	0.905	0.905			



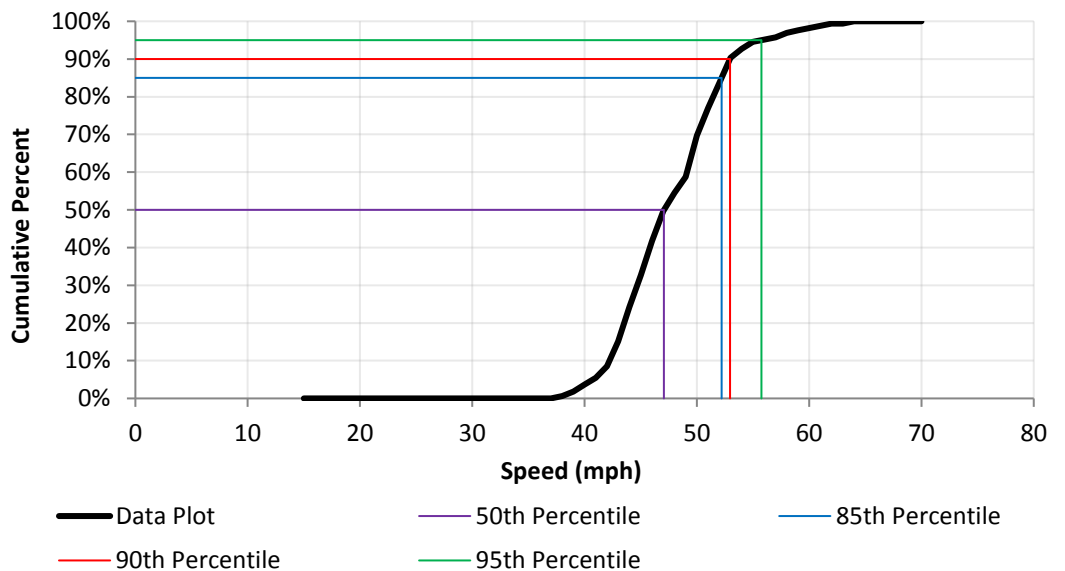
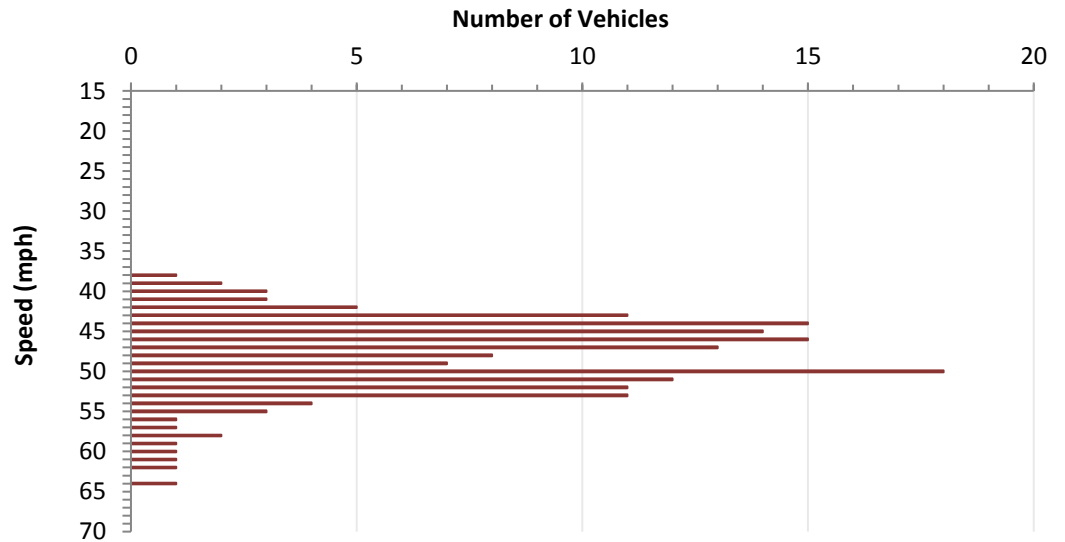
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Wieghorst Way	From:	Fury Lane	To:	Calle Albara
Position:	Calle Simpson	Direction:	EB/WB		

Date:	4/4/2018	Weather:	Clear	Project Number:	0
Time Start:	9:00 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	11:00 AM	Posted Speed:	50 mph	Calibration Test:	0

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35		
36		
37		
38	1	0.6%
39	2	1.8%
40	3	3.6%
41	3	5.5%
42	5	8.5%
43	11	15.2%
44	15	24.2%
45	14	32.7%
46	15	41.8%
47	13	49.7%
48	8	54.5%
49	7	58.8%
50	18	69.7%
51	12	77.0%
52	11	83.6%
53	11	90.3%
54	4	92.7%
55	3	94.5%
56	1	95.2%
57	1	95.8%
58	2	97.0%
59	1	97.6%
60	1	98.2%
61	1	98.8%
62	1	99.4%
63		
64	1	100.0%
65		
66		
67		
68		
69		
70		
Total	165	



DATA ANALYSIS

Average Speed	48.1	Range	38 - 64
50th Percentile	47.1	10 mph Pace	43 - 52
85th Percentile	52.2	Number in Pace	124
90th Percentile	53.0	Percent in Pace	75%
95th Percentile	55.8		

SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: December 14, 2018 **Item 2-G**

SUPERVISORIAL DISTRICT: 2

SUBJECT: Intersection Control

LOCATION: Fury Lane at Calle Verde, RANCHO SAN DIEGO
(Thos. Bros.1271-G4)

INITIATED BY: DPW Traffic Engineering

REQUEST: All-Way Stop Control

PROBLEM AS STATED BY REQUESTER:

The intersection of Fury Lane and Calle Verde meets California MUTCD, Section 2B.07, Criteria A, C.1, C.2 and Option B, therefore an all-way stop control could be considered.

Existing Traffic Devices

Fury Lane is a striped two-lane Through Highway with bike lane. The road runs east/west and varies in width between 40 feet and 70 feet. The roadway is classified as a Major Road on the County General Plan Mobility Element Network and posted 40 MPH/Radar Enforced.

Calle Verde is a roadway that runs north/south and measures 68 feet wide. It is a striped two-lane roadway with painted median/left turn lane. It is stopped controlled in the northbound direction at Fury Lane. This roadway is unclassified on the County General Plan Mobility Element Network and posted 35 MPH.

Average Daily Traffic Volumes Approach

10/18

Fury Lane

6,640 EB
9,240 WB

Calle Verde

3,350 NB

Collision Data

There have been four reported collisions at this intersection, two of which involved injury in the last 5 year period (8-1-13 to 7-31-18). These collisions result in an intersection accident rate of 0.114 collisions per million vehicle entering. The statewide average is 0.14 collisions per million vehicle entering for similar intersection.

2-G. Intersection Control

Fury Lane and Calle Verde





County of San Diego

RICHARD E. CROMPTON
DIRECTOR

DEPARTMENT OF PUBLIC WORKS
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(858) 694-2212 FAX: (858) 694-3597
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COUNTY TRAFFIC ENGINEER RECOMMENDATION

Date: December 3, 2018

Item Title: All-Way Stop Control

Location: Calle Verde and Fury Lane Intersection, Valle de Oro

CTE Recommendation: **Install an All-Way Stop Control** 

Conditions:

- Section 21354 "Stop Signs on Local Highways" of the California Vehicle Code (CVC) authorizes a local agency to designate any intersection under its exclusive jurisdiction as a stop intersection.
- Section 2B.07 "Multi-Way Stop Applications" of the California Manual on Uniform Traffic Control Devices (MUTCD) provides guidelines that should be considered in an engineering study when evaluating an intersection for an all-way stop control.
- Criteria A - At an intersection where a traffic signal is warranted, an all-way stop control should be considered as an interim measure to control traffic while arrangements are being made for the installation of the traffic control signal.
- Fury Lane and Calle Verde intersection has met the signal warrant and approved by the Board of Supervisors in June 1999. The intersection is currently on the County of San Diego Traffic Signal Priority List.
- Criteria C - An All-Way Stop Control should be considered at an intersection where the vehicular volumes entering the intersection from the major street (both approaches) averages at least 300 vehicles per hour for any 8 hours of a day and the combined vehicular, pedestrian, and bicycle volume entering from the minor street (both approaches) averages at least 200 units per hour for the same 8 hours with an average delay to minor street vehicular traffic of at least 30 seconds per vehicle during the highest hour.

- The intersection of Fury Lane and Calle Verde has over 8 hours averaging above 300 vehicles per hour on the major street (Fury Lane) and above 200 vehicles per hour approaching on the minor street (Calle Verde) during the same 8 hours.
- Option B - An All-Way Stop Control may be considered to control vehicle/pedestrian conflicts near locations that generate high pedestrian volumes, such as schools.
- The intersection of Fury Lane and Calle Verde is located within Avocado Elementary school zone.
- Pursuant to CVC section 21354 coupled with traffic conditions noted above in accordance with Section 2B.07 of the California MUTCD, it is my recommendation that an All-Way Stop Control is appropriate and safe for the intersection of Fury Lane and Calle Verde.

VOLUME

Calle Verde & Fury Ln

Day: Thursday
Date: 10/11/2018

City: Rancho San Diego
Project #: CA18_4369_005

DAILY TOTALS					NB	SB	EB					WB	Total					
					3,348	0						6,639	9,237	19,224				
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL							
00:00	10	0	13	9	32	12:00	24	0	96	127	247							
00:15	8	0	10	7	25	12:15	42	0	101	133	276							
00:30	5	0	8	4	17	12:30	45	0	88	128	261							
00:45	3	26	0	5	36	12:45	46	157	0	109	394	129	517	284	1068			
01:00	2	0	3	5	10	13:00	52	0	98	127	277							
01:15	5	0	4	8	17	13:15	42	0	92	168	302							
01:30	5	0	2	7	14	13:30	61	0	83	133	277							
01:45	1	13	0	2	11	13:45	63	218	0	103	376	168	596	334	1190			
02:00	2	0	3	2	7	14:00	49	0	171	160	380							
02:15	3	0	1	1	5	14:15	71	0	181	144	396							
02:30	1	0	5	2	8	14:30	46	0	112	149	307							
02:45	1	7	0	1	10	14:45	69	235	0	115	579	163	616	347	1430			
03:00	1	0	0	3	4	15:00	83	0	149	136	368							
03:15	0	0	2	2	4	15:15	80	0	183	149	412							
03:30	1	0	4	12	17	15:30	97	0	174	265	536							
03:45	0	2	0	2	8	15:45	79	339	0	158	664	320	870	557	1873			
04:00	0	0	0	6	6	16:00	78	0	152	209	439							
04:15	1	0	2	14	17	16:15	75	0	166	166	407							
04:30	0	0	0	20	20	16:30	87	0	175	185	447							
04:45	3	4	0	5	7	16:45	113	353	0	164	657	168	728	445	1738			
05:00	4	0	3	40	47	17:00	75	0	154	187	416							
05:15	3	0	6	43	52	17:15	91	0	162	165	418							
05:30	6	0	5	67	78	17:30	87	0	157	123	367							
05:45	4	17	0	4	18	17:45	96	349	0	163	636	113	588	372	1573			
06:00	7	0	7	77	91	18:00	91	0	134	137	362							
06:15	6	0	15	90	111	18:15	46	0	102	110	258							
06:30	16	0	27	134	177	18:30	53	0	119	102	274							
06:45	22	51	0	52	101	18:45	56	246	0	109	464	98	447	263	1157			
07:00	36	0	46	164	246	19:00	55	0	103	87	245							
07:15	32	0	55	198	285	19:15	44	0	77	91	212							
07:30	43	0	88	241	372	19:30	24	0	64	66	154							
07:45	54	165	0	142	331	19:45	36	159	0	61	305	68	312	165	776			
08:00	53	0	178	192	423	20:00	39	0	46	48	133							
08:15	47	0	110	167	324	20:15	32	0	74	62	168							
08:30	74	0	127	206	407	20:30	32	0	60	42	134							
08:45	53	227	0	102	517	20:45	28	131	0	52	232	60	212	140	575			
09:00	38	0	107	158	303	21:00	30	0	50	56	136							
09:15	37	0	115	142	294	21:15	23	0	44	51	118							
09:30	42	0	77	128	247	21:30	18	0	31	46	95							
09:45	34	151	0	69	368	21:45	9	80	0	36	161	38	191	83	432			
10:00	33	0	60	108	201	22:00	15	0	32	32	79							
10:15	50	0	73	98	221	22:15	12	0	23	23	58							
10:30	36	0	90	110	236	22:30	13	0	40	20	73							
10:45	40	159	0	79	302	22:45	12	52	0	21	116	9	84	42	252			
11:00	41	0	65	115	221	23:00	8	0	11	12	31							
11:15	30	0	67	140	237	23:15	4	0	15	13	32							
11:30	56	0	86	146	288	23:30	9	0	17	13	39							
11:45	51	178	0	67	285	23:45	8	29	0	18	61	14	52	40	142			
TOTALS	1000		1994		4024		7018		TOTALS		2348		4645		5213		12206	
SPLIT %	14.2%		28.4%		57.3%		36.5%		SPLIT %		19.2%		38.1%		42.7%		63.5%	

DAILY TOTALS					NB	SB					EB	WB	Total	
					3,348	0					6,639	9,237	19,224	
AM Peak Hour	07:45		07:45	07:15	08:00	PM Peak Hour	16:30		15:15	15:30	15:15			
AM Pk Volume	228		557	854	1596	PM Pk Volume	366		667	960	1944			
Pk Hr Factor	0.770		0.782	0.886	0.903	Pk Hr Factor	0.810		0.911	0.750	0.873			
7 - 9 Volume	392	0	848	1678	2918	4 - 6 Volume	702	0	1293	1316	3311			
7 - 9 Peak Hour	07:45		07:45	07:15	08:00	4 - 6 Peak Hour	16:30		16:15	16:00	16:00			
7 - 9 Pk Volume	228	0	557	854	1596	4 - 6 Pk Volume	366	0	659	728	1738			
Pk Hr Factor	0.770	0.000	0.782	0.886	0.903	Pk Hr Factor	0.810	0.000	0.941	0.871	0.972			

SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: December 14, 2018

Item **2-H**

SUPERVISORIAL DISTRICT: 2

SUBJECT: Speed Limit/Radar Certification

LOCATION: Magnolia Avenue/Black Canyon Road from State Route 76/Julian Rd to Black Canyon Place (2.77 miles)
RAMONA (Thos. Bros. 1153-A4)

INITIATED BY: DPW Traffic Engineering

REQUEST: Speed Limit Review

PROBLEM AS STATED BY REQUESTER:

Magnolia Avenue/Black Canyon Road from State Route 76/Julian Rd to Black Canyon Place has no posted speed limit. Preliminary review of prevailing speeds and roadway conditions could support radar certification for a 50 MPH speed limit.

Existing Traffic Devices

Magnolia Avenue is a striped two-lane roadway that measures 26 feet in width. The road is centerline striped with one-directional and two-directional passing zones along the roadway. The road is a Light Collector on the County General Plan Mobility Element Network. Magnolia Avenue has no formal speed limit posted.

Black Canyon Road is a striped two-lane roadway that measures 22-26 feet in width. The road is centerline striped with curve and 35MPH speed advisory signs located at a major curve along the roadway. The road is a Light Collector on the County General Plan Mobility Element Network. Black Canyon Road has no formal speed limit posted.

Average Daily Traffic Volumes

07/18

Black Cyn Rd/Magnolia Ave
at Pile Street

2,000

Speed Data

Black Cyn Rd/Magnolia Ave
50' N/o Penn St

(2018)

**85th
Percentile**

53.0 MPH

**10 MPH
Pace**

43-52

**% in
Pace**

66.0%

700' N/o Ramona Real

(2018)

54.3 MPH

41-50

53.0%

Speed Zone

(2018)

53.7 MPH

42-51

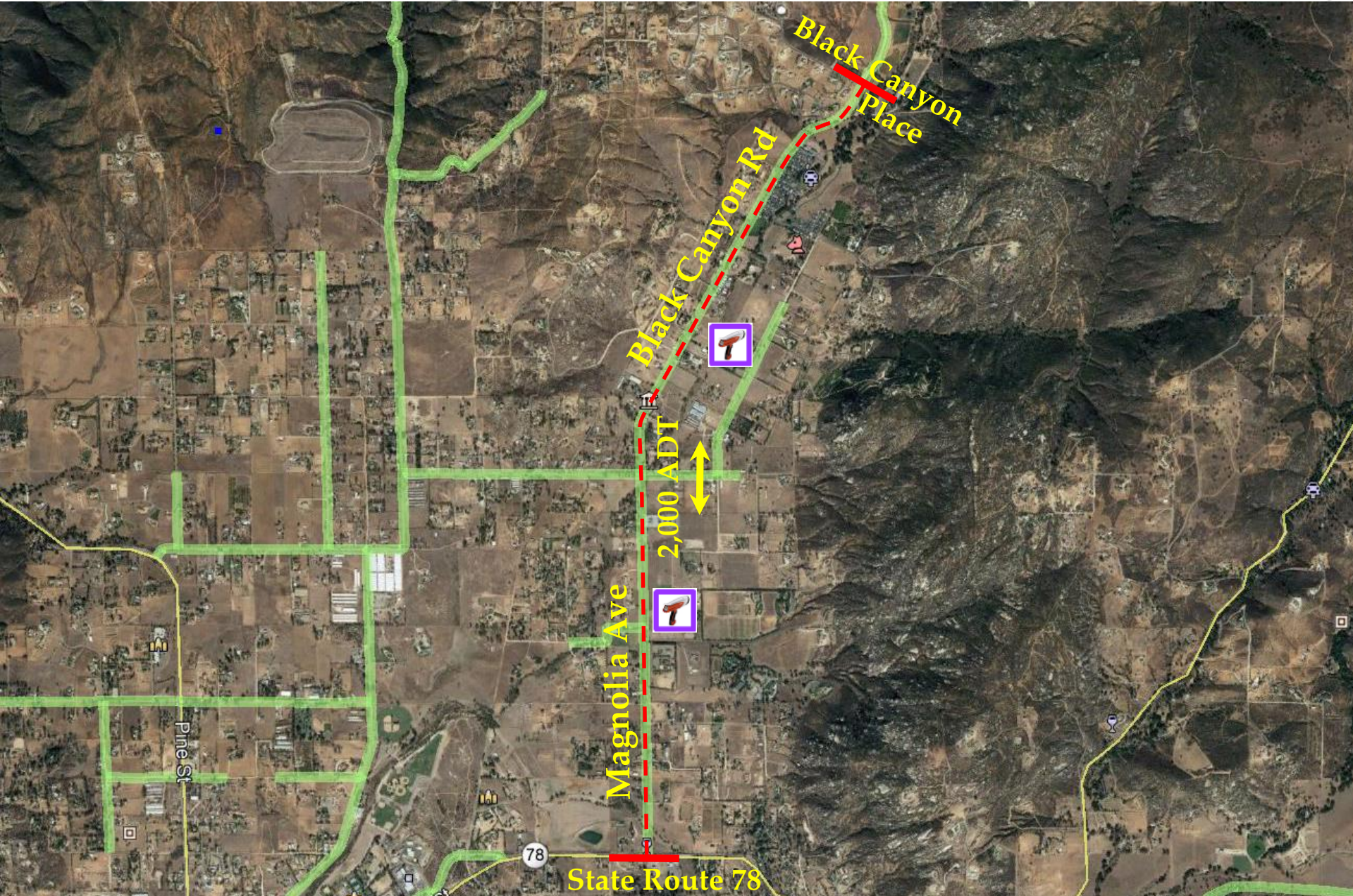
59.5%

Collision Data

There have been 9 reported collisions along this segment of roadway, 4 of which involved injury, in a 5 year period (6-1-13 to 5-31-18). These collisions result in a segment accident rate of 0.89 collisions per million vehicle miles. The statewide average is 0.97 collisions per million vehicle miles for similar rural conventional 2 lanes or less with speed limit less than or equal to 55 mile per hour.

2-H. Speed Limit/Radar Certification

Magnolia Ave/Black Cyn Rd from SR 78 to Black Cyn Pl (2.77 miles)





County of San Diego

RICHARD E. CROMPTON
DIRECTOR

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COUNTY TRAFFIC ENGINEER RECOMMENDATION

Date: December 3, 2018

Item Title: Speed Limit and Radar Certification

Location: Magnolia Avenue/Black Canyon Road between SR-76/Julian Rd and Black Canyon Place

CTE Recommendation: **Establish 50 MPH Radar Enforced Speed Limit**

Conditions:

- Section 22358 of the California Vehicle Code authorizes a local agency to determine upon the basis of an Engineering and Traffic Survey (E&TS) that the speed limit of 65 miles per hour (mph) is more than is reasonable or safe, the agency may declare a prima facie speed limit of 60, 55, 50, 45, 40, 35, 30, or 25 mph, whichever is found most appropriate and is reasonable and safe.
- Section 2B.13 "Speed Limit Sign (R2-1)" of the California MUTCD, provides that an E&TS shall include a) prevailing speeds, b) collision records, and c) highway, traffic and roadside conditions that are not apparent to a driver.
- The California Manual on Uniform Traffic Control Devices stipulates that speed limits are usually set at the 5 mph increment above or below the prevailing or 85th % speed of motorists.
- Magnolia Avenue/Black Canyon Road is a two-lane roadway that measures approximately 22 to 24 feet in width, with ungraded shoulder throughout its length of 2.77 miles. There is a double yellow centerline and/or in some areas a single dashed yellow centerline.
- Recent speed surveys on Magnolia Avenue/Black Canyon Road taken in June 2018 resulted in an overall 85th % speed of 53.7 mph, which supports a speed limit of 50 mph using radar for speed enforcement.

- A review of the roadway collision data for a three year period (June 2015 to May 2018) shows a total of 7 collisions on Magnolia Avenue/Black Canyon Road with a collision rate of 1.16 collisions per million-vehicle-mile (c/mvm) compared to a state average of 0.97 c/mvm for similar roadway.
- Pursuant to CVC section 22358 coupled with above conditions on South Grade Road and the guidance of the CA MUTCD section 2B.13, a 50 mph radar enforced speed limit on Magnolia Avenue/Black Canyon Road from SR-76/Julian Rd to Black Canyon Place is reasonable and safe.

VOLUME

Black Canyon Rd/Magnolia Ave & Pile St

Day: Thursday
Date: 7/12/2018City: Ramona
Project #: CA18_4234_001

DAILY TOTALS					NB	SB	EB					WB	Total								
					1,129	869						460						212	2,670		
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL									
00:00	1	2	0	0	3		12:00	23	10	4	1	38									
00:15	5	3	2	1	11		12:15	18	9	5	3	35									
00:30	2	1	0	0	3		12:30	13	18	6	3	40									
00:45	1	9	0	6	1	3	0	1	2	19	12:45	19	73	13	50	4	19	3	10	39	152
01:00	0	0	1	0	1		13:00	8	11	12	3	34									
01:15	3	1	4	1	9		13:15	15	19	13	3	50									
01:30	0	1	0	0	1		13:30	21	12	7	2	42									
01:45	2	5	0	2	0	5	1	2	3	14	13:45	21	65	11	53	7	39	1	9	40	166
02:00	0	1	0	0	1		14:00	24	16	7	5	52									
02:15	0	0	0	0	0		14:15	15	11	7	3	36									
02:30	0	2	0	0	2		14:30	9	9	7	1	26									
02:45	1	1	1	4	1	1	0	3	6	14:45	20	68	13	49	5	26	5	14	43	157	
03:00	3	0	0	1	4		15:00	20	6	7	2	35									
03:15	1	1	1	0	3		15:15	17	25	7	4	53									
03:30	1	3	0	0	4		15:30	23	20	27	9	79									
03:45	2	7	2	6	0	1	0	1	4	15	15:45	32	92	15	66	8	49	7	22	62	229
04:00	0	6	1	0	7		16:00	25	16	9	7	57									
04:15	1	0	0	0	1		16:15	23	19	8	4	54									
04:30	0	6	1	0	7		16:30	18	8	21	4	51									
04:45	2	3	3	15	2	4	0	7	22	16:45	25	91	13	56	14	52	5	20	57	219	
05:00	2	6	1	0	9		17:00	26	9	5	3	43									
05:15	1	4	0	0	5		17:15	33	7	12	9	61									
05:30	2	6	1	0	9		17:30	20	12	13	1	46									
05:45	4	9	12	28	1	3	0	17	40	17:45	15	94	11	39	11	41	1	14	38	188	
06:00	8	9	1	0	18		18:00	24	31	7	3	65									
06:15	8	8	3	0	19		18:15	16	13	9	2	40									
06:30	9	10	3	0	22		18:30	12	5	8	2	27									
06:45	14	39	16	43	6	13	2	2	38	97	18:45	13	65	13	62	10	34	6	13	42	174
07:00	12	13	5	2	32		19:00	17	6	5	4	32									
07:15	10	18	3	2	33		19:15	14	6	9	3	32									
07:30	17	15	2	2	36		19:30	20	9	4	3	36									
07:45	20	59	22	68	5	15	7	13	54	155	19:45	16	67	6	27	9	27	6	16	37	137
08:00	19	23	1	4	47		20:00	17	4	5	1	27									
08:15	9	18	2	0	29		20:15	18	7	13	4	42									
08:30	10	13	4	3	30		20:30	11	12	5	3	31									
08:45	21	59	25	79	6	13	2	9	54	160	20:45	10	56	5	28	3	26	3	11	21	121
09:00	31	14	3	12	60		21:00	9	3	3	3	18									
09:15	10	14	6	2	32		21:15	5	3	4	0	12									
09:30	15	13	0	1	29		21:30	7	1	6	0	14									
09:45	8	64	18	59	11	20	1	16	38	159	21:45	8	29	4	11	4	17	2	5	18	62
10:00	17	13	4	2	36		22:00	4	1	0	2	7									
10:15	14	11	7	7	39		22:15	6	4	1	1	12									
10:30	15	13	5	3	36		22:30	6	0	0	2	8									
10:45	28	74	13	50	8	24	5	17	54	165	22:45	7	23	0	5	3	4	2	7	12	39
11:00	16	15	7	4	42		23:00	2	1	0	1	4									
11:15	12	17	7	1	37		23:15	3	1	1	0	5									
11:30	18	16	7	2	43		23:30	2	1	0	0	3									
11:45	20	66	12	60	1	22	1	8	34	156	23:45	4	11	0	3	1	2	1	2	6	18
TOTALS	395	420	124	69	1008		TOTALS	734	449	336	143	1662									
SPLIT %	39.2%	41.7%	12.3%	6.8%	37.8%		SPLIT %	44.2%	27.0%	20.2%	8.6%	62.2%									

DAILY TOTALS					NB	SB						EB	WB						Total
					1,129	869						460	212						2,670
AM Peak Hour	11:30	08:00	10:45	08:30	08:30		PM Peak Hour	16:45	15:15	15:30	15:15	15:30							15:30
AM Pk Volume	79	79	29	19	176		PM Pk Volume	104	76	52	27	252							252
Pk Hr Factor	0.859	0.790	0.906	0.396	0.733		Pk Hr Factor	0.788	0.760	0.481	0.750	0.797							0.797
7 - 9 Volume	118	147	28	22	315		4 - 6 Volume	185	95	93	34	407							407
7 - 9 Peak Hour	07:15	08:00	07:00	07:15	07:15		4 - 6 Peak Hour	16:45	16:00	16:00	16:30	16:00							16:00
7 - 9 Pk Volume	66	79	15	15	170		4 - 6 Pk Volume	104	56	52	21	219							219
Pk Hr Factor	0.825	0.790	0.750	0.536	0.787		Pk Hr Factor	0.788	0.737	0.619	0.583	0.961							0.961



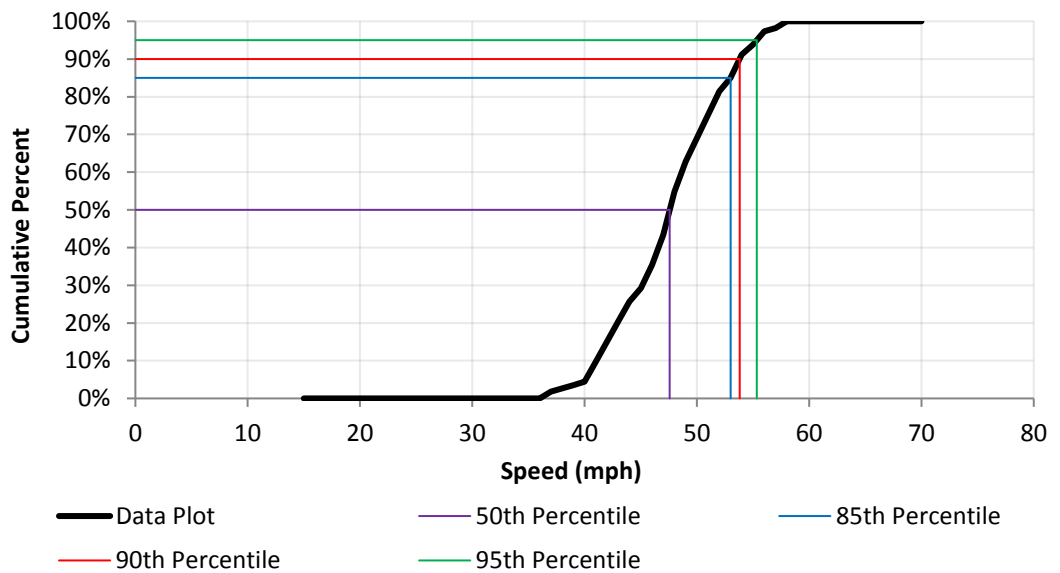
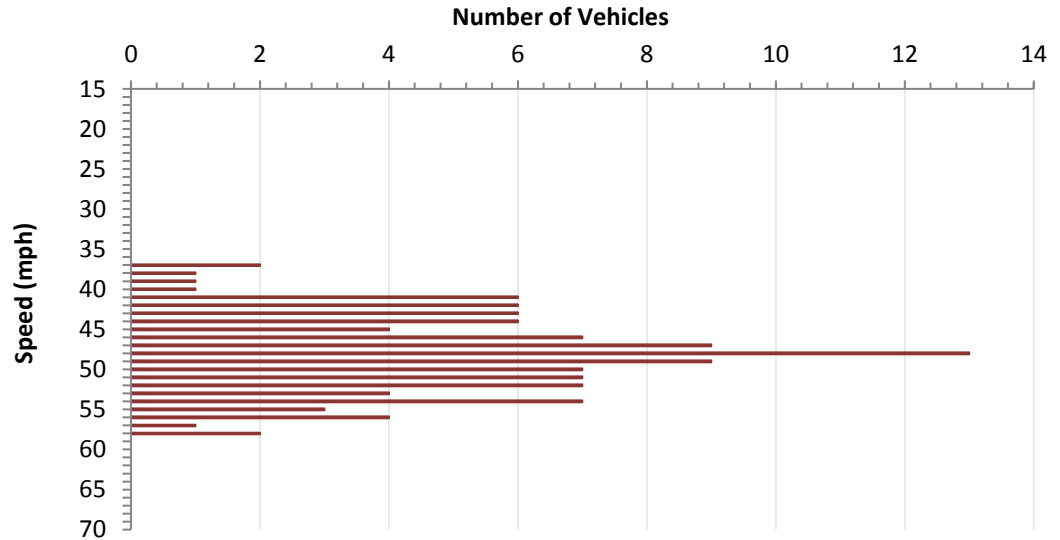
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Magnolia Ave	From:	SR 78	To:	Black Canyon Rd
Position:	50' N/o Penn St	Direction:	NB/SB		

Date:	6/22/2018	Weather:	Clear	Project Number:	0
Time Start:	9:10 AM	Road Condition:	Dry	Observer:	Traffic Engineering
Time End:	10:10 AM	Posted Speed:	None Posted	Calibration Test:	0

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35		
36		
37	2	1.8%
38	1	2.7%
39	1	3.5%
40	1	4.4%
41	6	9.7%
42	6	15.0%
43	6	20.4%
44	6	25.7%
45	4	29.2%
46	7	35.4%
47	9	43.4%
48	13	54.9%
49	9	62.8%
50	7	69.0%
51	7	75.2%
52	7	81.4%
53	4	85.0%
54	7	91.2%
55	3	93.8%
56	4	97.3%
57	1	98.2%
58	2	100.0%
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	113	



DATA ANALYSIS

Average Speed	48.0	Range	37 - 58
50th Percentile	47.6	10 mph Pace	43 - 52
85th Percentile	53.0	Number in Pace	75
90th Percentile	53.8	Percent in Pace	66%
95th Percentile	55.3		

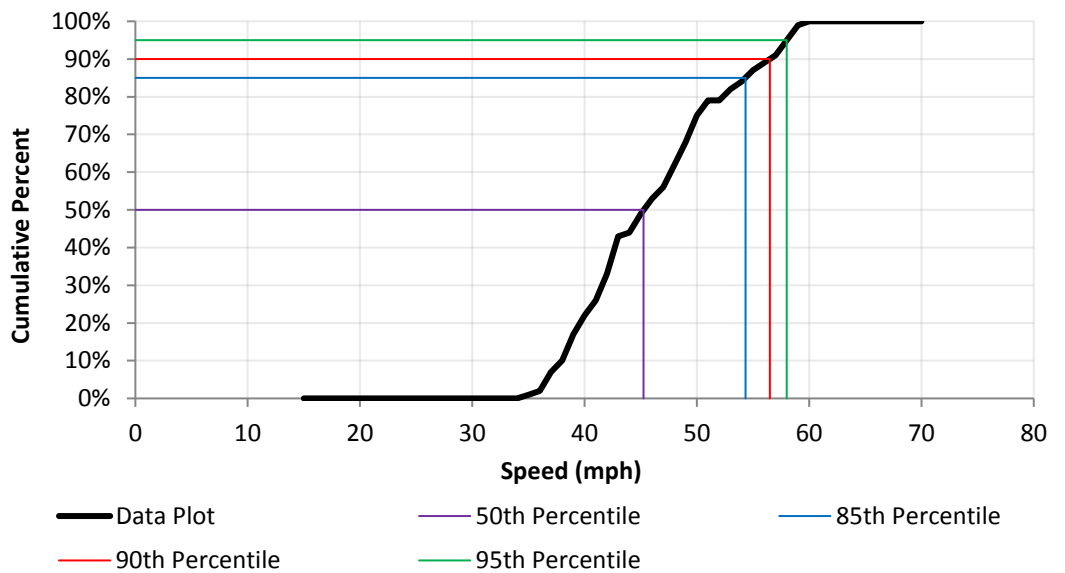
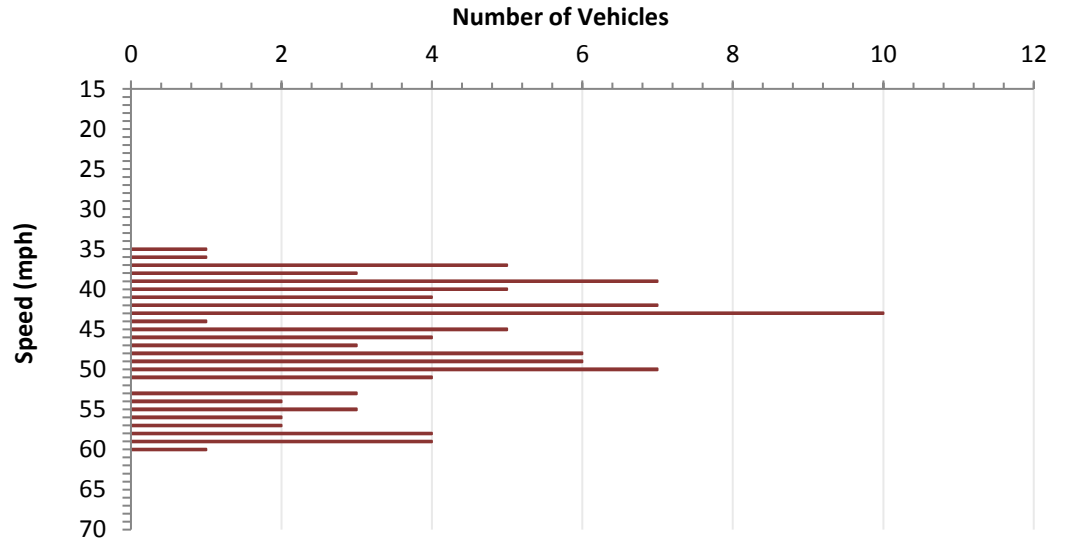


RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Black Canyon Rd	From:	Magnolia Ave	To:	Black Canyon Pl
Position:	700' N/o Ramona Real	Direction:	NB/SB		
Date:	6/22/2018	Weather:	Clear	Project Number:	0
Time Start:	10:15 AM	Road Condition:	Dry	Observer:	Traffic Engineering
Time End:	12:00 PM	Posted Speed:	None Posted	Calibration Test:	0

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35	1	1.0%
36	1	2.0%
37	5	7.0%
38	3	10.0%
39	7	17.0%
40	5	22.0%
41	4	26.0%
42	7	33.0%
43	10	43.0%
44	1	44.0%
45	5	49.0%
46	4	53.0%
47	3	56.0%
48	6	62.0%
49	6	68.0%
50	7	75.0%
51	4	79.0%
52		
53	3	82.0%
54	2	84.0%
55	3	87.0%
56	2	89.0%
57	2	91.0%
58	4	95.0%
59	4	99.0%
60	1	100.0%
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	100	



DATA ANALYSIS

Average Speed	46.5	Range	35 - 60
50th Percentile	45.3	10 mph Pace	41 - 50
85th Percentile	54.3	Number in Pace	53
90th Percentile	56.5	Percent in Pace	53%
95th Percentile	58.0		

SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: December 14, 2018 **Item 3-A**

SUPERVISORIAL DISTRICT: 3

SUBJECT: Radar Recertification

LOCATION: Dove Canyon Rd from Bernardo Center Driver/Carmel Valley Rd to Camino del Norte (1.12 miles) 4S RANCH (Thos. Bros. 1169-F5)

INITIATED BY: DPW Traffic Engineering

REQUEST: Radar Recertification

PROBLEM AS STATED BY REQUESTER:

Dove Canyon Rd from Bernardo Center Driver/Carmel Valley Rd to Camino del Norte is posted 45 MPH Radar Enforced. Preliminary review of prevailing speeds and roadway conditions could support radar recertification.

Existing Traffic Devices

Dove Canyon Road is a striped four-lane roadway that measures approximately 80 feet in width. There is a raised center median separating both directions of travel and a bike lane on both sides. The roadway is unclassified on the County General Plan Mobility Element Network. The road is posted 45MPH/Radar Enforced.

Average Daily Traffic Volumes

Dove Canyon Road:

S/o Cimarron Canyon Road
N/o Cimarron Canyon Road

04/18

9,005

02/11

8,180

Spot Speed Data

Dove Canyon Road:

200' N/o Painted Cyn Rd

(2018)
(2011)

**85th
Percentile**

48.1 MPH
47.4 MPH

**10 MPH
Pace**

38-47
38-47

**% in
Pace**

70.0%
50.9%

200' N/o Cimarron Cyn Dr

(2018)
(2011)

45.1 MPH
46.5 MPH

36-45
37-46

63.0%
58.4%

Speed Zone

(2018)

46.6 MPH

37-46

66.5%

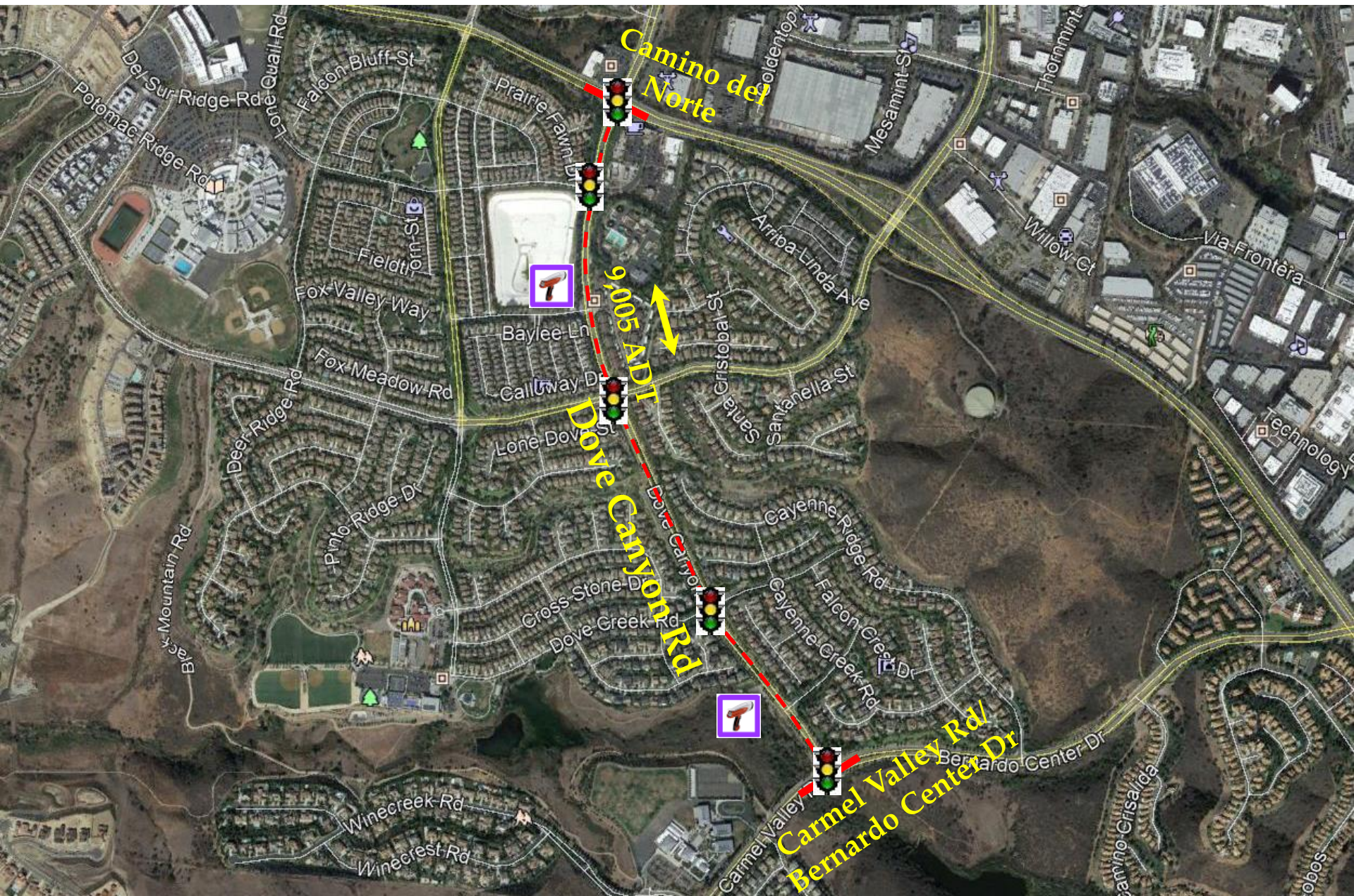
Collision Data

There have been 24 reported collisions, 9 of which involved injuries, along this segment of roadway in the last five years (8-1-13 to 7-31-18). These collisions result in a segment

accident rate of 1.31 collisions per million vehicle miles. The statewide average is 1.42 collisions per million vehicle miles for similar suburban divided 4 lanes with speed limit less than or equal to 55 miles per hour.

3-A. Radar Certification

Dove Cyn Rd from Bernardo Center Dr/Carmel Valley Rd to Camino del Norte (1.12 miles)



VOLUME

Dove Canyon Rd 400' S/O Cimarron Canyon Dr

Day: Tuesday
Date: 4/17/2018City: 4S Ranch
Project #: CA18_4120_014

DAILY TOTALS					NB	SB						EB	WB						Total
					4,604	4,400						0	0						9,004
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL							TOTAL
00:00	2	2			4		12:00	71	45			116							116
00:15	2	0			2		12:15	67	53			120							120
00:30	1	1			2		12:30	47	41			88							88
00:45	1	6	0	3	1	9	12:45	64	249	52	191	116	440						116 440
01:00	0	0			0		13:00	41	51			92							92
01:15	1	1			2		13:15	57	46			103							103
01:30	1	1			2		13:30	69	67			136							136
01:45	1	3	0	2	1	5	13:45	64	231	46	210	110	441						110 441
02:00	0	0			0		14:00	40	61			101							101
02:15	1	0			1		14:15	70	87			157							157
02:30	1	0			1		14:30	77	79			156							156
02:45	0	2	0		0	2	14:45	72	259	94	321	166	580						166 580
03:00	0	0			0		15:00	76	129			205							205
03:15	1	0			1		15:15	244	100			344							344
03:30	1	1			2		15:30	106	89			195							195
03:45	0	2	1	2	1	4	15:45	98	524	65	383	163	907						163 907
04:00	1	1			2		16:00	91	77			168							168
04:15	1	2			3		16:15	89	51			140							140
04:30	3	3			6		16:30	87	77			164							164
04:45	9	14	3	9	12	23	16:45	98	365	73	278	171	643						171 643
05:00	5	2			7		17:00	108	72			180							180
05:15	5	5			10		17:15	116	90			206							206
05:30	11	11			22		17:30	140	97			237							237
05:45	17	38	13	31	30	69	17:45	120	484	101	360	221	844						221 844
06:00	9	24			33		18:00	98	75			173							173
06:15	13	31			44		18:15	95	73			168							168
06:30	26	39			65		18:30	95	62			157							157
06:45	27	75	49	143	76	218	18:45	115	403	89	299	204	702						204 702
07:00	28	67			95		19:00	84	58			142							142
07:15	41	79			120		19:15	63	66			129							129
07:30	47	87			134		19:30	79	40			119							119
07:45	105	221	113	346	218	567	19:45	74	300	56	220	130	520						130 520
08:00	74	62			136		20:00	63	67			130							130
08:15	77	79			156		20:15	48	51			99							99
08:30	89	108			197		20:30	49	38			87							87
08:45	148	388	235	484	383	872	20:45	32	192	39	195	71	387						71 387
09:00	147	165			312		21:00	40	55			95							95
09:15	89	68			157		21:15	28	30			58							58
09:30	41	65			106		21:30	28	21			49							49
09:45	41	318	59	357	100	675	21:45	16	112	24	130	40	242						40 242
10:00	36	48			84		22:00	10	11			21							21
10:15	46	57			103		22:15	12	19			31							31
10:30	43	42			85		22:30	6	9			15							15
10:45	51	176	41	188	92	364	22:45	10	38	13	52	23	90						23 90
11:00	40	52			92		23:00	4	14			18							18
11:15	52	41			93		23:15	5	2			7							7
11:30	46	43			89		23:30	2	0			2							2
11:45	51	189	43	179	94	368	23:45	4	15	1	17	5	32						5 32
TOTALS	1432	1744			3176		TOTALS	3172	2656			5828							5828
SPLIT %	45.1%	54.9%			35.3%		SPLIT %	54.4%	45.6%			64.7%							64.7%

DAILY TOTALS					NB	SB						EB	WB						Total
					4,604	4,400						0	0						9,004
AM Peak Hour	08:30	08:15			08:30		PM Peak Hour	15:15	14:45			14:45							14:45
AM Pk Volume	473	587			1049		PM Pk Volume	539	412			910							910
Pk Hr Factor	0.799	0.624			0.685		Pk Hr Factor	0.552	0.798			0.661							0.661
7 - 9 Volume	609	830	0	0	1439		4 - 6 Volume	849	638	0	0	1487							1487
7 - 9 Peak Hour	08:00	08:00			08:00		4 - 6 Peak Hour	17:00	17:00			17:00							17:00
7 - 9 Pk Volume	388	484	0	0	872		4 - 6 Pk Volume	484	360	0	0	844							844
Pk Hr Factor	0.655	0.515	0.000	0.000	0.569		Pk Hr Factor	0.864	0.891	0.000	0.000	0.890							0.890

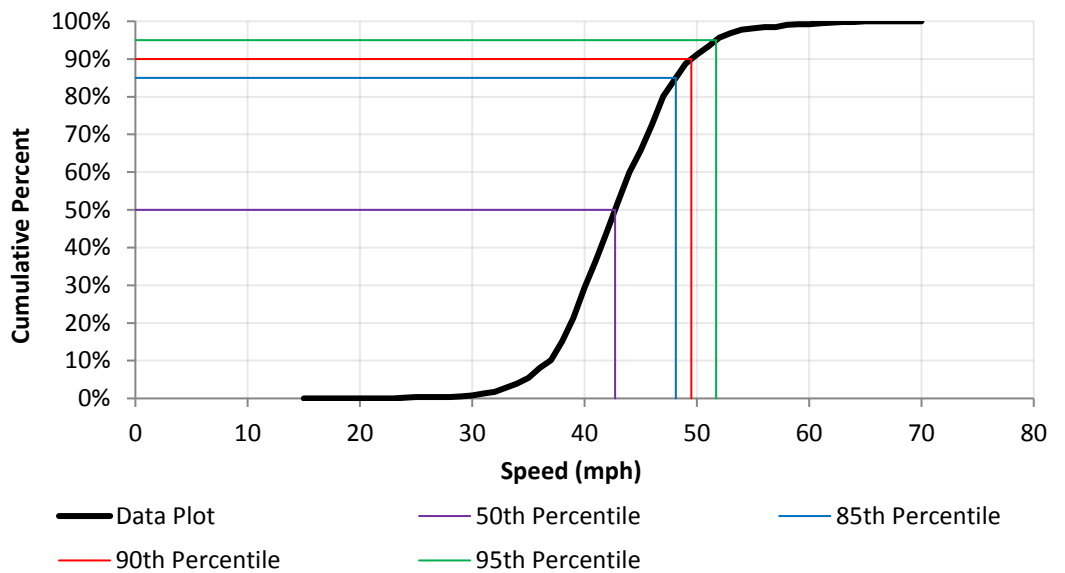
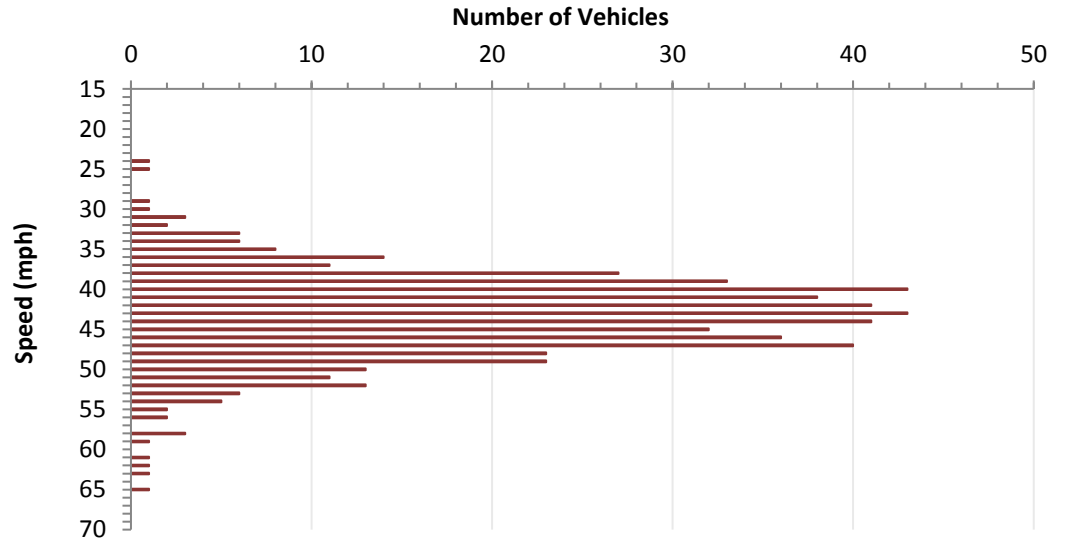


RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Dove Canyon Road	From:	Bernardo Center Dr/Carmel Valley	To:	Camino Del Norte
Position:	200' N/o Painted Canyon Rd			Direction:	NB/SB
Date:	4/9/2018	Weather:	Clear	Project Number:	18-4121-036
Time Start:	12:25 PM	Road Condition:	Dry	Observer:	Contractor
Time End:	2:25 PM	Posted Speed:	45 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24	1	0.2%
25	1	0.4%
26		
27		
28		
29	1	0.6%
30	1	0.7%
31	3	1.3%
32	2	1.7%
33	6	2.8%
34	6	3.9%
35	8	5.4%
36	14	8.1%
37	11	10.1%
38	27	15.2%
39	33	21.3%
40	43	29.4%
41	38	36.5%
42	41	44.2%
43	43	52.2%
44	41	59.9%
45	32	65.9%
46	36	72.7%
47	40	80.1%
48	23	84.5%
49	23	88.8%
50	13	91.2%
51	11	93.3%
52	13	95.7%
53	6	96.8%
54	5	97.8%
55	2	98.1%
56	2	98.5%
57		
58	3	99.1%
59	1	99.3%
60		
61	1	99.4%
62	1	99.6%
63	1	99.8%
64		
65	1	100.0%
66		
67		
68		
69		
70		
Total	534	



DATA ANALYSIS

Average Speed	43.5	Range	24 - 65
50th Percentile	42.7	10 mph Pace	38 - 47
85th Percentile	48.1	Number in Pace	374
90th Percentile	49.5	Percent in Pace	70%
95th Percentile	51.7		



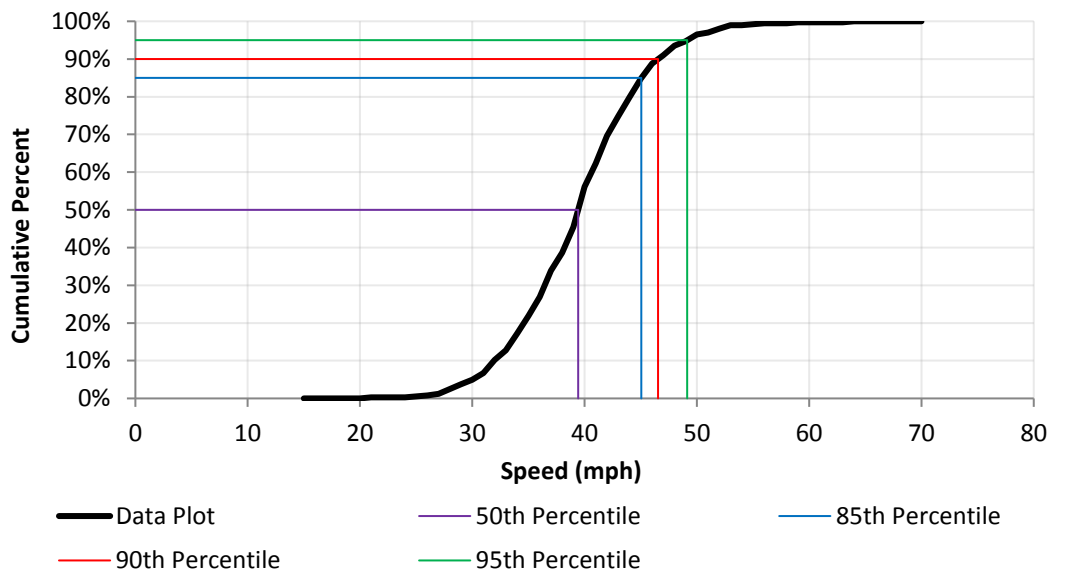
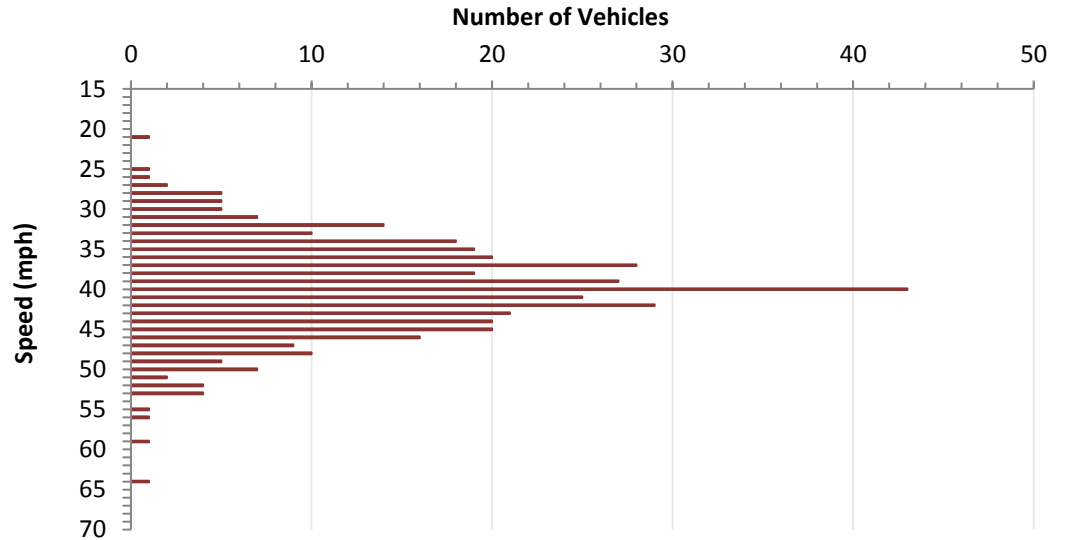
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Dove Canyon Road	From:	Bernardo Center Dr/Carmel Valley	To:	Camino Del Norte
Position:	200' N/o Cimarron Cyn Rd			Direction:	NB/SB

Date:	4/9/2018	Weather:	Clear	Project Number:	18-4121-034
Time Start:	9:00 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	11:00 AM	Posted Speed:	45 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21	1	0.2%
22		
23		
24		
25	1	0.5%
26	1	0.7%
27	2	1.2%
28	5	2.5%
29	5	3.7%
30	5	5.0%
31	7	6.7%
32	14	10.2%
33	10	12.7%
34	18	17.2%
35	19	21.9%
36	20	26.9%
37	28	33.9%
38	19	38.7%
39	27	45.4%
40	43	56.1%
41	25	62.3%
42	29	69.6%
43	21	74.8%
44	20	79.8%
45	20	84.8%
46	16	88.8%
47	9	91.0%
48	10	93.5%
49	5	94.8%
50	7	96.5%
51	2	97.0%
52	4	98.0%
53	4	99.0%
54		
55	1	99.3%
56	1	99.5%
57		
58		
59	1	99.8%
60		
61		
62		
63		
64	1	100.0%
65		
66		
67		
68		
69		
70		
Total	401	



DATA ANALYSIS

Average Speed	39.9	Range	21 - 64
50th Percentile	39.4	10 mph Pace	36 - 45
85th Percentile	45.1	Number in Pace	252
90th Percentile	46.5	Percent in Pace	63%
95th Percentile	49.1		

SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: December 14, 2018

Item 5-A

SUPERVISORIAL DISTRICT: 5

SUBJECT: Radar Recertification

LOCATION: Mac Tan Road from Valley Center Road northerly to the end of County maintenance (1.9 miles) VALLEY CENTER (Thos. Bros. 1091-A2)

INITIATED BY: DPW Traffic Engineering

REQUEST: Radar Recertification

PROBLEM AS STATED BY REQUESTER:

Mac Tan Road from Valley Center Road northerly to the end of County maintenance is posted 40 MPH Radar Enforced. Preliminary review of prevailing speeds and roadway conditions could support radar recertification.

Existing Traffic Devices

Mac Tan Road is a striped two-lane roadway that varies from 24 feet to 30 feet in width. There is an all-way stop control at its intersection with Vesper Road. The road is classified as a Minor Collector Road on the County General Plan Mobility Element Network and posted 40 MPH/Radar Enforced.

<u>Average Daily Traffic Volumes</u>	<u>04/18</u>	<u>09/11</u>
Mac Tan Road		
200' N/o Fruitvale Road	1,335	950

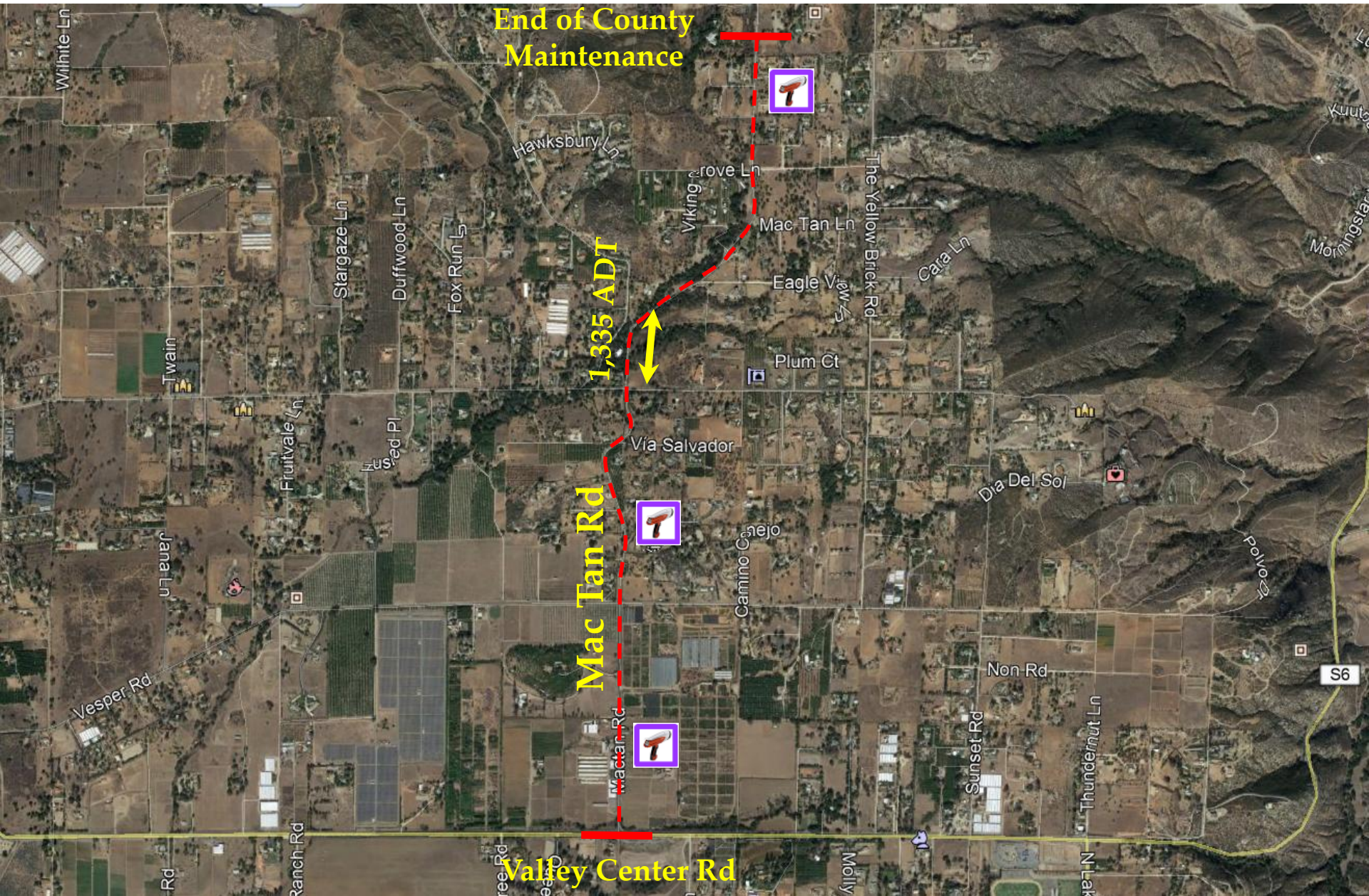
<u>Spot Speed Data</u>		<u>85th Percentile</u>	<u>10 MPH Pace</u>	<u>% in Pace</u>
Mac Tan Road				
1,000' N/o Valley Center Rd	(2018)	49.4 MPH	38-47	57.0%
	(2011)	45.3 MPH	37-46	81.9%
100' N/o Ziga Drive	(2018)	42.3 MPH	32-41	65.0%
	(2011)	37.6 MPH	29-38	80.1%
At Shady Oaks Way	(2018)	44.2 MPH	26-35	54.0%
	(2011)	44.7 MPH	37-46	83.4%
Speed Zone	(2018)	45.3 MPH	32-41	58.7%

Collision Data

There have been 7 reported collisions along this segment of roadway, 4 of which involved injuries, in a three year period (8-1-15 to 7-31-18). These collisions result in a segment accident rate of 2.53 collisions per million vehicle miles. The statewide average is 1.05 collisions per million vehicle miles for similar rural conventional 2 lanes or less with speed limit less than or equal to 55 miles per hour.

5-A. Radar Certification

Mac Tan Rd from Valley Center Rd to the End of County Maintenance (1.9 miles)



VOLUME

Mactan Rd 200' N/O Fruitvale Rd

Day: Tuesday
Date: 4/24/2018City: Valley Center
Project #: CA18_4120_012

DAILY TOTALS					NB	SB	EB					WB	Total
					668	665	0					0	1,333
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL		
00:00	0	1			1	12:00	9	10			19		
00:15	1	1			2	12:15	10	4			14		
00:30	0	0			0	12:30	11	11			22		
00:45	1	2	0	2	1	12:45	6	36	5	30	11	66	
01:00	0	1			1	13:00	13	7			20		
01:15	1	0			1	13:15	9	18			27		
01:30	0	0			0	13:30	13	10			23		
01:45	1	2	0	1	1	13:45	9	44	16	51	25	95	
02:00	0	1			1	14:00	18	10			28		
02:15	0	0			0	14:15	6	7			13		
02:30	1	0			1	14:30	7	12			19		
02:45	0	1	1	2	1	14:45	13	44	8	37	21	81	
03:00	1	1			2	15:00	13	12			25		
03:15	1	0			1	15:15	17	13			30		
03:30	0	1			1	15:30	18	10			28		
03:45	1	3	0	2	1	15:45	10	58	8	43	18	101	
04:00	0	0			0	16:00	17	13			30		
04:15	0	2			2	16:15	24	12			36		
04:30	0	5			5	16:30	27	7			34		
04:45	0	2	9		2	16:45	21	89	10	42	31	131	
05:00	0	6			6	17:00	17	7			24		
05:15	1	7			8	17:15	11	4			15		
05:30	2	12			14	17:30	16	7			23		
05:45	0	3	18	43	18	17:45	11	55	10	28	21	83	
06:00	3	15			18	18:00	13	12			25		
06:15	2	11			13	18:15	14	6			20		
06:30	3	22			25	18:30	23	3			26		
06:45	6	14	23	71	29	18:45	12	62	4	25	16	87	
07:00	10	20			30	19:00	10	7			17		
07:15	4	27			31	19:15	10	4			14		
07:30	4	15			19	19:30	11	4			15		
07:45	10	28	20	82	30	19:45	5	36	3	18	8	54	
08:00	6	24			30	20:00	5	2			7		
08:15	9	19			28	20:15	3	1			4		
08:30	5	5			10	20:30	10	1			11		
08:45	8	28	8	56	16	20:45	3	21	1	5	4	26	
09:00	17	20			37	21:00	8	2			10		
09:15	5	9			14	21:15	6	1			7		
09:30	4	12			16	21:30	10	3			13		
09:45	6	32	7	48	13	21:45	6	30	1	7	7	37	
10:00	6	7			13	22:00	3	2			5		
10:15	6	7			13	22:15	5	1			6		
10:30	2	9			11	22:30	3	0			3		
10:45	6	20	9	32	15	22:45	4	15	0	3	4	18	
11:00	5	7			12	23:00	4	0			4		
11:15	6	5			11	23:15	1	1			2		
11:30	13	6			19	23:30	0	1			1		
11:45	10	34	8	26	18	23:45	6	11	0	2	6	13	
TOTALS	167	374			541	TOTALS	501	291			792		
SPLIT %	30.9%	69.1%			40.6%	SPLIT %	63.3%	36.7%			59.4%		

DAILY TOTALS				NB	SB					EB	WB	Total	
				668	665					0	0	1,333	
AM Peak Hour	11:30	06:30			06:30	PM Peak Hour	16:00	13:15			16:00		
AM Pk Volume	42	92			115	PM Pk Volume	89	54			131		
Pk Hr Factor	0.808	0.852			0.927	Pk Hr Factor	0.824	0.750			0.910		
7 - 9 Volume	56	138	0	0	194	4 - 6 Volume	144	70	0	0	214		
7 - 9 Peak Hour	07:45	07:15			07:00	4 - 6 Peak Hour	16:00	16:00			16:00		
7 - 9 Pk Volume	30	86	0	0	110	4 - 6 Pk Volume	89	42	0	0	131		
Pk Hr Factor	0.750	0.796	0.000	0.000	0.887	Pk Hr Factor	0.824	0.808	0.000	0.000	0.910		



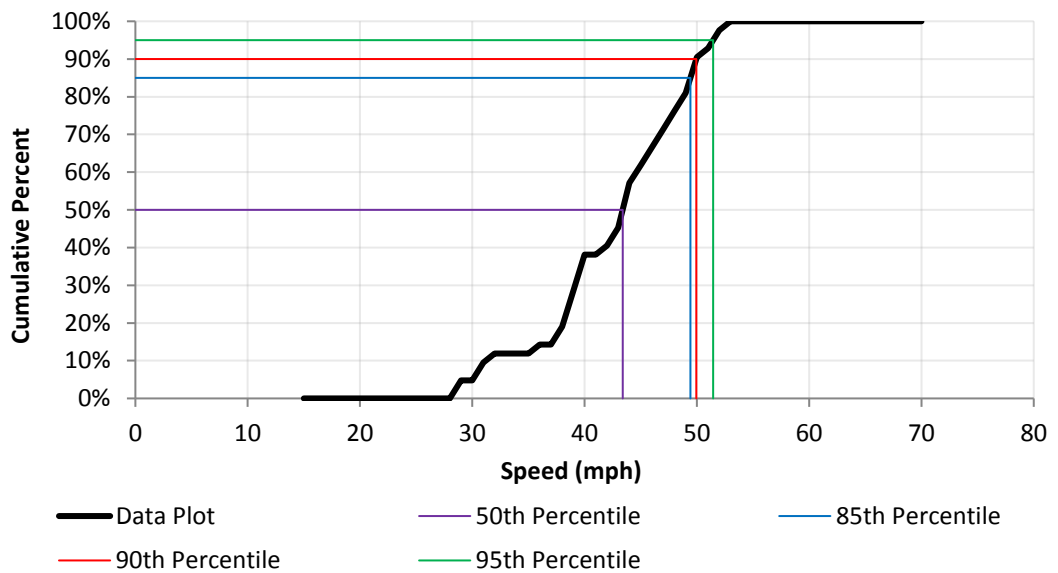
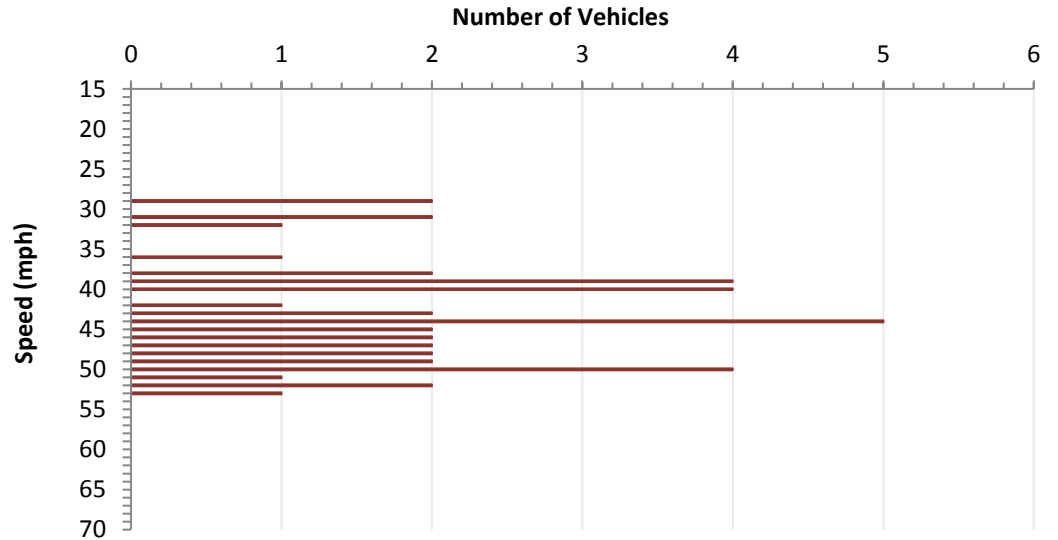
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Mac Tan Road	From:	Valley Center Rd	To:	End of County Maintenance
Position:	1,000' N/o Valley Center Rd	Direction:	NB/SB		

Date:	4/11/2018	Weather:	Clear	Project Number:	18-4121-023
Time Start:	9:00 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	11:00 AM	Posted Speed:	40 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29	2	4.8%
30		
31	2	9.5%
32	1	11.9%
33		
34		
35		
36	1	14.3%
37		
38	2	19.0%
39	4	28.6%
40	4	38.1%
41		
42	1	40.5%
43	2	45.2%
44	5	57.1%
45	2	61.9%
46	2	66.7%
47	2	71.4%
48	2	76.2%
49	2	81.0%
50	4	90.5%
51	1	92.9%
52	2	97.6%
53	1	100.0%
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	42	



DATA ANALYSIS

Average Speed	43.0	Range	29 - 53
50th Percentile	43.4	10 mph Pace	38 - 47
85th Percentile	49.4	Number in Pace	24
90th Percentile	50.0	Percent in Pace	57%
95th Percentile	51.5		



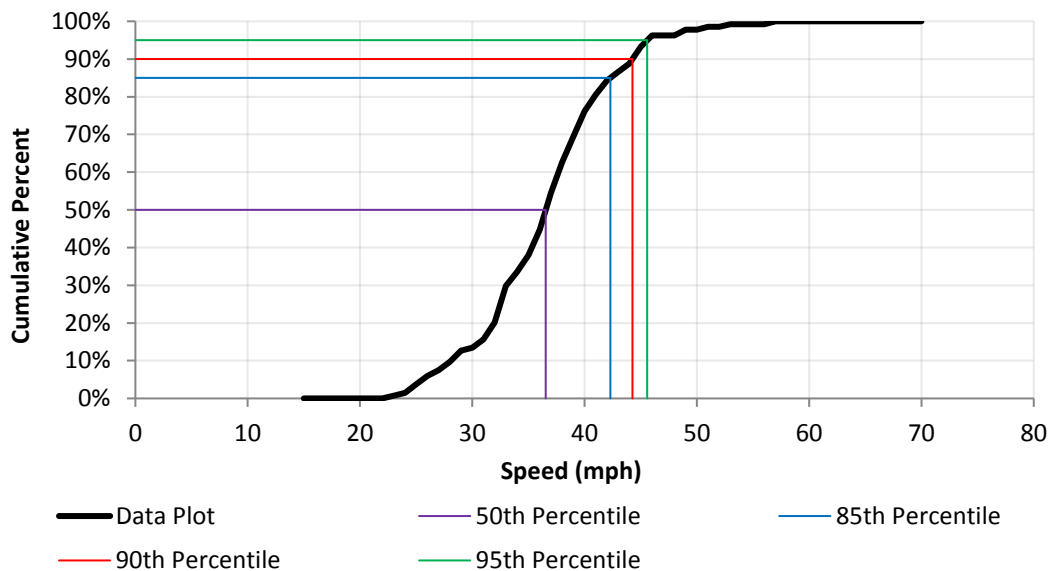
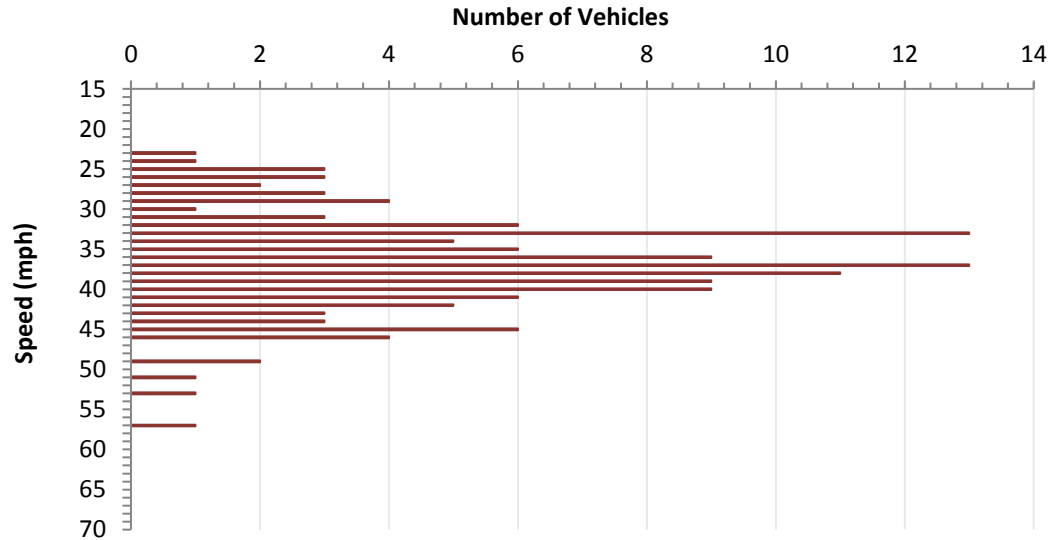
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Mac Tan Road	From:	Valley Center Rd	To:	End of County Maintenance
Position:	100' N/o Ziga Drive	Direction:	NB/SB		

Date:	4/11/2018	Weather:	Clear	Project Number:	18-4121-024
Time Start:	11:00 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	13:00	Posted Speed:	40 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23	1	0.7%
24	1	1.5%
25	3	3.7%
26	3	6.0%
27	2	7.5%
28	3	9.7%
29	4	12.7%
30	1	13.4%
31	3	15.7%
32	6	20.1%
33	13	29.9%
34	5	33.6%
35	6	38.1%
36	9	44.8%
37	13	54.5%
38	11	62.7%
39	9	69.4%
40	9	76.1%
41	6	80.6%
42	5	84.3%
43	3	86.6%
44	3	88.8%
45	6	93.3%
46	4	96.3%
47		
48		
49	2	97.8%
50		
51	1	98.5%
52		
53	1	99.3%
54		
55		
56		
57	1	100.0%
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	134	



DATA ANALYSIS

Average Speed	36.9	Range	23 - 57
50th Percentile	36.5	10 mph Pace	32 - 41
85th Percentile	42.3	Number in Pace	87
90th Percentile	44.3	Percent in Pace	65%
95th Percentile	45.6		



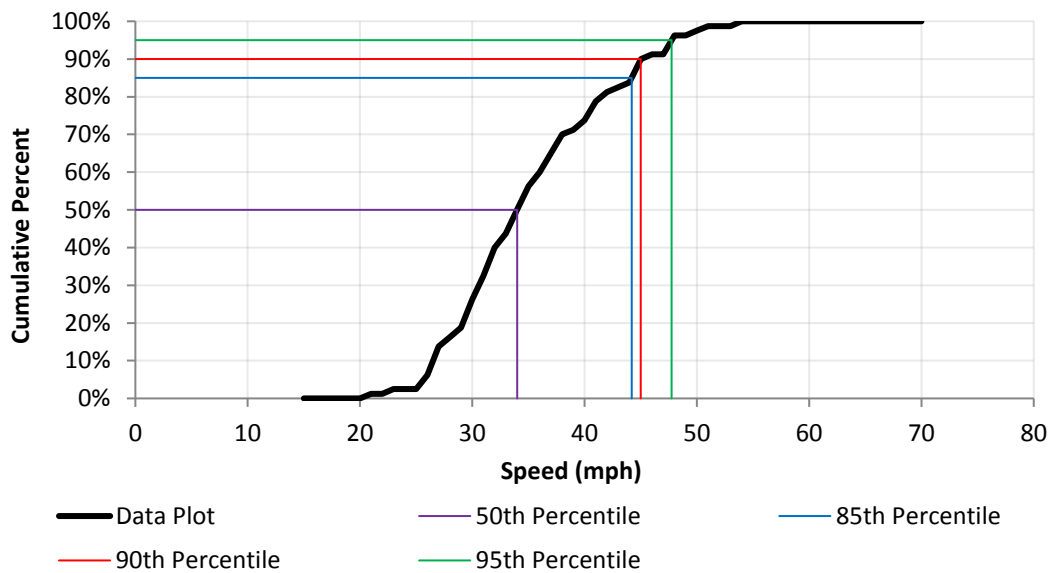
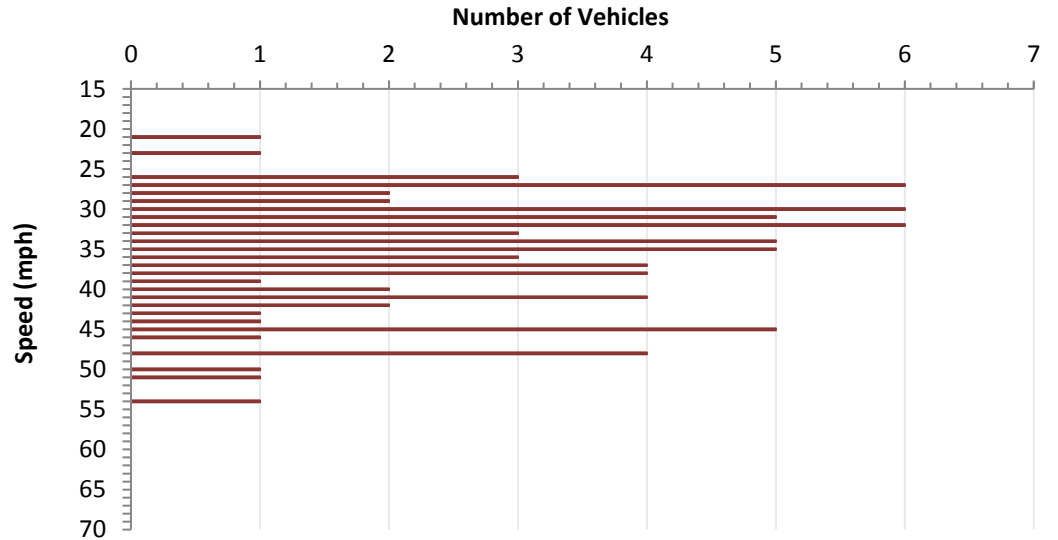
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Mac Tan Road	From:	Valley Center Rd	To:	End of County Maintenance
Position:	Shady Oaks Way	Direction:	NB/SB		

Date:	4/11/2018	Weather:	Clear	Project Number:	18-4121-025
Time Start:	1:30 PM	Road Condition:	Dry	Observer:	Contractor
Time End:	3:30 PM	Posted Speed:	40 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21	1	1.3%
22		
23	1	2.5%
24		
25		
26	3	6.3%
27	6	13.8%
28	2	16.3%
29	2	18.8%
30	6	26.3%
31	5	32.5%
32	6	40.0%
33	3	43.8%
34	5	50.0%
35	5	56.3%
36	3	60.0%
37	4	65.0%
38	4	70.0%
39	1	71.3%
40	2	73.8%
41	4	78.8%
42	2	81.3%
43	1	82.5%
44	1	83.8%
45	5	90.0%
46	1	91.3%
47		
48	4	96.3%
49		
50	1	97.5%
51	1	98.8%
52		
53		
54	1	100.0%
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	80	



DATA ANALYSIS

Average Speed	35.6	Range	21 - 54
50th Percentile	34.0	10 mph Pace	26 - 35
85th Percentile	44.2	Number in Pace	43
90th Percentile	45.0	Percent in Pace	54%
95th Percentile	47.8		

SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: December 14, 2018

Item **5-B**

SUPERVISORIAL DISTRICT: 5

SUBJECT: Radar Recertification

LOCATION: Stage Coach Lane from South Mission Road to 1,580 feet south of Calavo Road (0.76 miles) FALLBROOK (Thos. Bros. 1027-G7)

INITIATED BY: DPW Traffic Engineering

REQUEST: Radar Recertification

PROBLEM AS STATED BY REQUESTER:

Stage Coach Lane from South Mission Road to 1,580 feet south of Calavo Road is posted 40 MPH Radar Enforced. Preliminary review of prevailing speeds and roadway conditions could support radar recertification.

Existing Traffic Devices

Stage Coach Lane is a striped two-lane Through Highway that varies from 26 feet to 39 feet in width. There is edge-striping on both sides of the roadway. The road is classified as a Light Collector on the County General Plan Mobility Element Network and posted 40 MPH/Radar Enforced.

Average Daily Traffic Volumes

Stage Coach Lane:

150' E/o Rujean Ln

10/18

6,625

10/08

W/o Calavo Road

6,720

Speed Data

Stage Coach Lane:

900' E/o S. Mission Road

(2018)

(2011)

**85th
Percentile**

42.3 MPH

38.0 MPH

**10 MPH
Pace**

33-42

26-35

**% in
Pace**

64.0%

62.6%

200' E/o Knollwood Ave

(2018)

(2011)

43.7 MPH

42.0 MPH

35-44

33-42

72.0%

74.8%

Speed Zone

(2018)

43.0 MPH

34-43

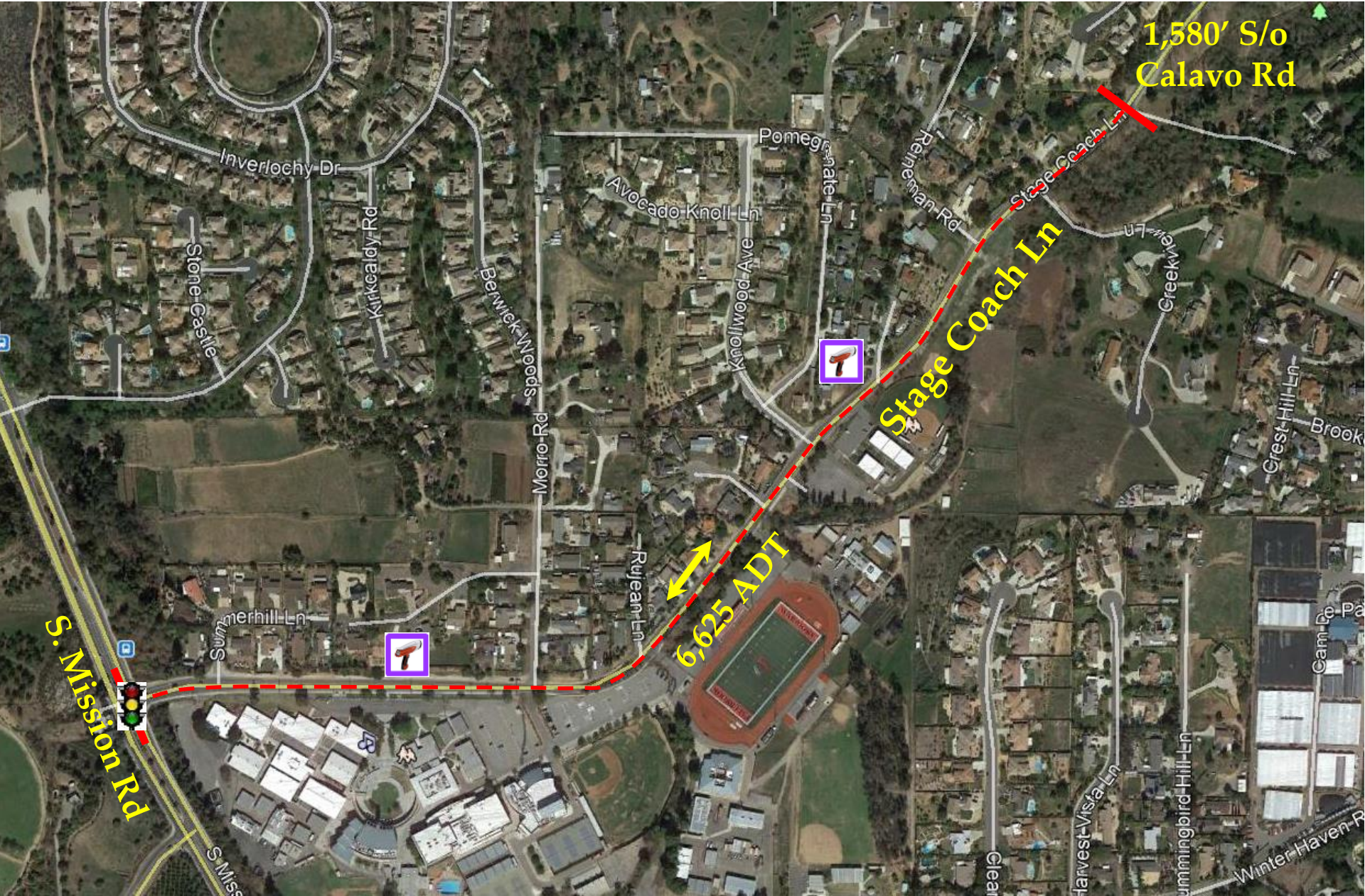
68.0%

Collision Data

There have been 16 reported collisions along this segment of roadway, 8 of which involved injury, in a 5 year 7 month period (1-1-13 to 7-31-18). These collisions result in a segment accident rate of 1.56 collisions per million vehicle miles. The statewide average is 1.8 collisions per million vehicle miles for similar suburban conventional 2 lanes or less with speeds less than 45 mile per hour.

5-B. Radar Certification

Stage Coach Ln from S. Mission Rd to 1,580' S/o Calavo Rd (0.76 miles)



VOLUME

Stage Coach Ln 150' E/O Rujean Ln

Day: Wednesday
Date: 10/10/2018City: Fallbrook
Project #: CA18_4369_003

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						3,273	3,351						6,624
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL							TOTAL
00:00			10	2	12		12:00			111	91	202							
00:15			3	2	5		12:15			105	113	218							
00:30			2	1	3		12:30			56	59	115							
00:45			1	16	2	7	12:45			52	324	48	311	100	635				
01:00			1	0	1		13:00			37	56	93							
01:15			2	0	2		13:15			47	44	91							
01:30			0	4	4		13:30			37	58	95							
01:45			4	7	1	5	13:45			49	170	65	223	114	393				
02:00			2	0	2		14:00			60	56	116							
02:15			1	1	2		14:15			55	64	119							
02:30			1	1	2		14:30			45	44	89							
02:45			2	6	2	4	14:45			56	216	39	203	95	419				
03:00			1	0	1		15:00			80	53	133							
03:15			2	1	3		15:15			61	48	109							
03:30			1	3	4		15:30			50	49	99							
03:45			2	6	0	4	15:45			50	241	42	192	92	433				
04:00			1	5	6		16:00			55	46	101							
04:15			0	4	4		16:15			63	49	112							
04:30			1	10	11		16:30			64	53	117							
04:45			4	6	12	31	16:45			73	255	61	209	134	464				
05:00			2	19	21		17:00			92	51	143							
05:15			6	15	21		17:15			92	59	151							
05:30			9	27	36		17:30			80	63	143							
05:45			7	24	31	92	17:45			69	333	50	223	119	556				
06:00			11	35	46		18:00			66	55	121							
06:15			13	50	63		18:15			54	72	126							
06:30			34	74	108		18:30			51	53	104							
06:45			38	96	92	251	18:45			47	218	32	212	79	430				
07:00			71	97	168		19:00			47	29	76							
07:15			116	123	239		19:15			36	28	64							
07:30			120	95	215		19:30			33	28	61							
07:45			55	362	70	385	19:45			44	160	16	101	60	261				
08:00			36	68	104		20:00			43	32	75							
08:15			41	67	108		20:15			36	24	60							
08:30			37	53	90		20:30			18	16	34							
08:45			29	143	42	230	20:45			42	139	16	88	58	227				
09:00			27	48	75		21:00			39	14	53							
09:15			19	56	75		21:15			22	9	31							
09:30			31	40	71		21:30			27	11	38							
09:45			26	103	22	166	21:45			18	106	16	50	34	156				
10:00			32	42	74		22:00			24	7	31							
10:15			29	36	65		22:15			13	7	20							
10:30			32	35	67		22:30			9	6	15							
10:45			31	124	38	151	22:45			18	64	5	25	23	89				
11:00			27	31	58		23:00			6	2	8							
11:15			24	42	66		23:15			10	3	13							
11:30			32	44	76		23:30			3	1	4							
11:45			50	133	62	179	23:45			2	21	3	9	5	30				
TOTALS			1026	1505	2531		TOTALS			2247	1846	4093							
SPLIT %			40.5%	59.5%	38.2%		SPLIT %			54.9%	45.1%	61.8%							

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						3,273	3,351						6,624
AM Peak Hour			07:00	06:45	06:45		PM Peak Hour			16:45	12:00	12:00							
AM Pk Volume			362	407	752		PM Pk Volume			337	311	635							
Pk Hr Factor			0.754	0.827	0.787		Pk Hr Factor			0.916	0.688	0.728							
7 - 9 Volume	0	0	505	615	1120		4 - 6 Volume	0	0	588	432	1020							
7 - 9 Peak Hour			07:00	07:00	07:00		4 - 6 Peak Hour			16:45	16:45	16:45							
7 - 9 Pk Volume	0	0	362	385	747		4 - 6 Pk Volume	0	0	337	234	571							
Pk Hr Factor	0.000	0.000	0.754	0.783	0.781		Pk Hr Factor	0.000	0.000	0.916	0.929	0.945							

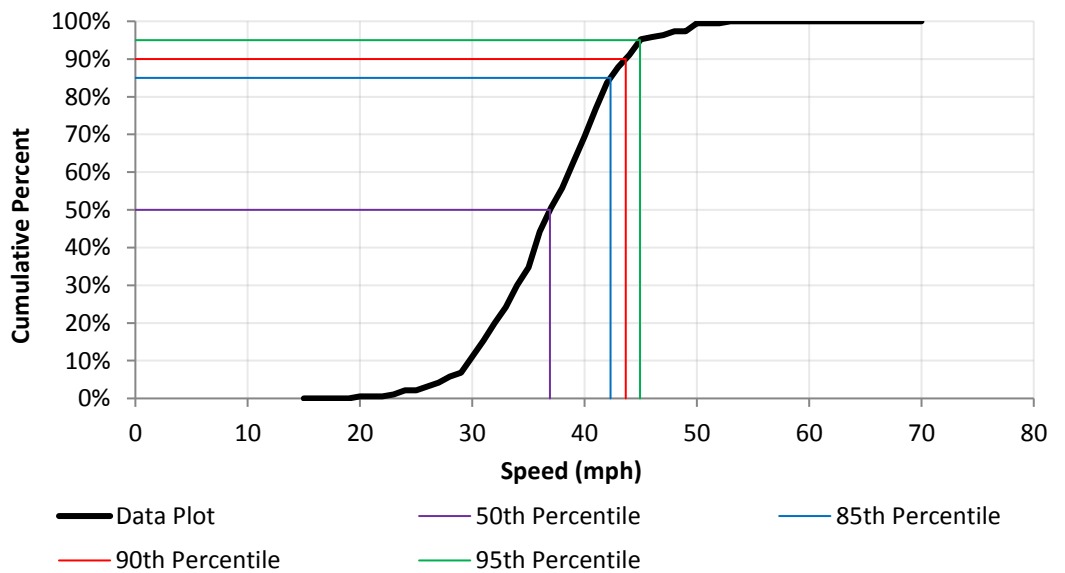
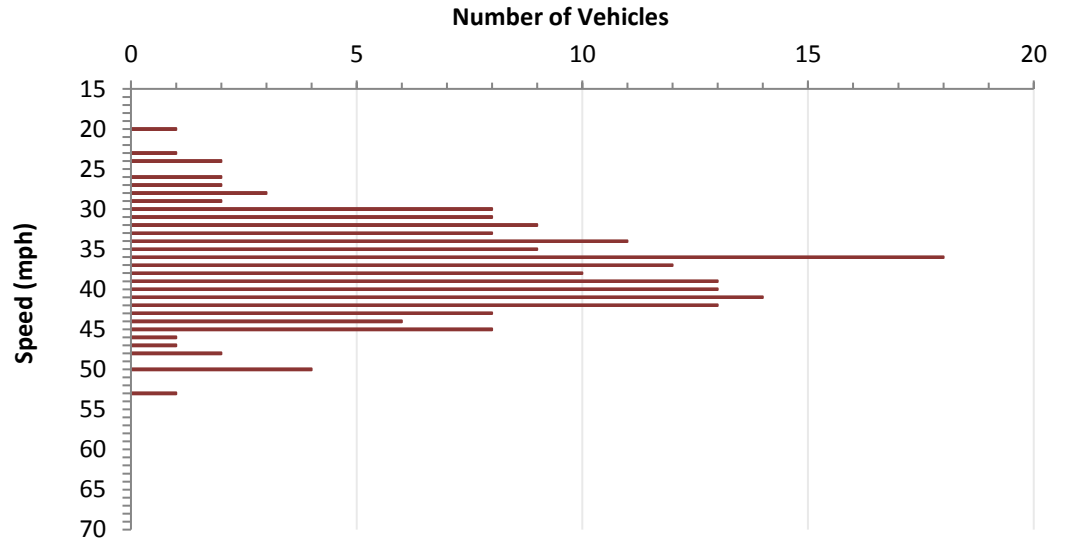


RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Stage Coach Lane	From:	S. Mission Road	To:	1,580' SO Calavo Rd
Position:	900' E/o Mission Road	Direction:	EB/WB		
Date:	4/9/2018	Weather:	Clear	Project Number:	0
Time Start:	11:55 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	1:55 PM	Posted Speed:	45 mph	Calibration Test:	0

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20	1	0.5%
21		
22		
23	1	1.1%
24	2	2.1%
25		
26	2	3.2%
27	2	4.2%
28	3	5.8%
29	2	6.8%
30	8	11.1%
31	8	15.3%
32	9	20.0%
33	8	24.2%
34	11	30.0%
35	9	34.7%
36	18	44.2%
37	12	50.5%
38	10	55.8%
39	13	62.6%
40	13	69.5%
41	14	76.8%
42	13	83.7%
43	8	87.9%
44	6	91.1%
45	8	95.3%
46	1	95.8%
47	1	96.3%
48	2	97.4%
49		
50	4	99.5%
51		
52		
53	1	100.0%
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	190	



DATA ANALYSIS

Average Speed	37.4	Range	20 - 53
50th Percentile	36.9	10 mph Pace	33 - 42
85th Percentile	42.3	Number in Pace	121
90th Percentile	43.7	Percent in Pace	64%
95th Percentile	44.9		

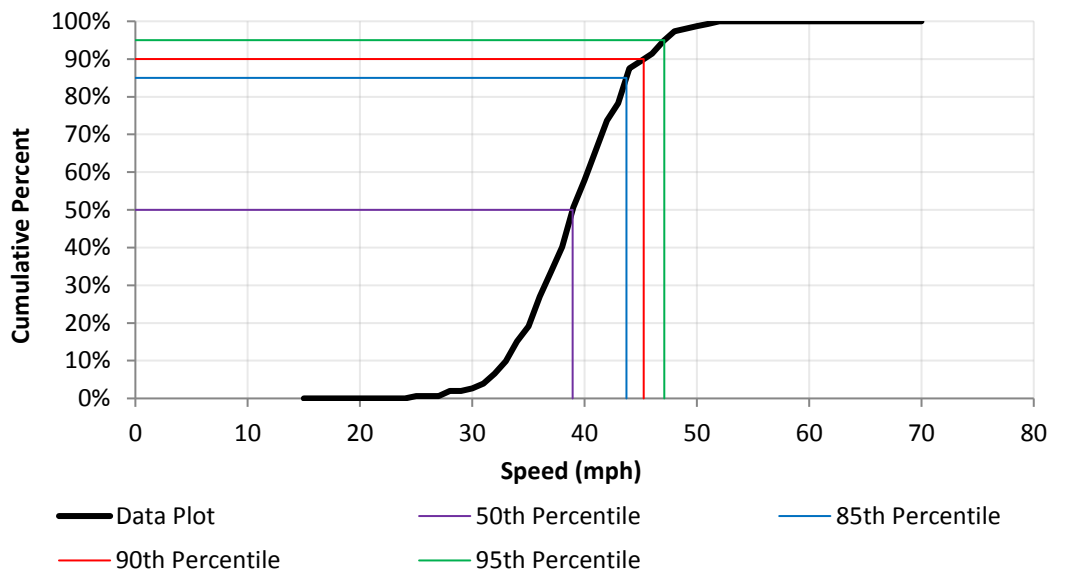
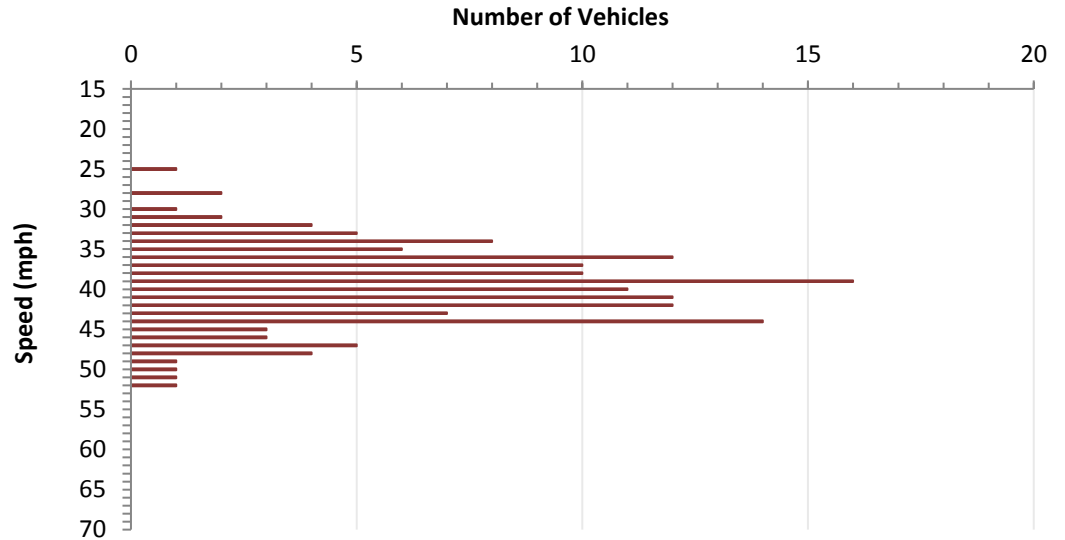


RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Stage Coach Lane	From:	S. Mission Road	To:	1,580' SO Calavo Rd
Position:	200' E/o Knollwood Ave	Direction:	EB/WB		
Date:	4/9/2018	Weather:	Clear	Project Number:	0
Time Start:	9:20 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	11:20 AM	Posted Speed:	45 mph	Calibration Test:	0

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25	1	0.7%
26		
27		
28	2	2.0%
29		
30	1	2.6%
31	2	3.9%
32	4	6.6%
33	5	9.9%
34	8	15.1%
35	6	19.1%
36	12	27.0%
37	10	33.6%
38	10	40.1%
39	16	50.7%
40	11	57.9%
41	12	65.8%
42	12	73.7%
43	7	78.3%
44	14	87.5%
45	3	89.5%
46	3	91.4%
47	5	94.7%
48	4	97.4%
49	1	98.0%
50	1	98.7%
51	1	99.3%
52	1	100.0%
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	152	



DATA ANALYSIS

Average Speed	39.5	Range	25 - 52
50th Percentile	38.9	10 mph Pace	35 - 44
85th Percentile	43.7	Number in Pace	110
90th Percentile	45.3	Percent in Pace	72%
95th Percentile	47.1		

SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: December 14, 2018

Item 5-C

SUPERVISORIAL DISTRICT: 5

SUBJECT: Radar Recertification

LOCATION: Stage Coach Lane from 1,580 feet south of Calavo Road to Reche Road (1.2 miles) FALLBROOK (Thos. Bros. 1027-H6)

INITIATED BY: DPW Traffic Engineering

REQUEST: Radar Recertification

PROBLEM AS STATED BY REQUESTER:

Stage Coach Lane from 1,580 feet south of Calavo Road to Reche Road is posted 45 MPH Radar Enforced. Preliminary review of prevailing speeds and roadway conditions could support radar recertification.

Existing Traffic Devices

Stage Coach Lane is a striped two-lane Through Highway that varies from 26 feet to 40 feet in width. The road is classified as a Light Collector on the County General Plan Mobility Element Network. The road is posted 45 MPH/Radar Enforced.

Average Daily Traffic Volumes

	<u>8/18</u>	<u>11/11</u>
Stage Coach Lane		
800' S/o Calavo Road	6,180	6,300

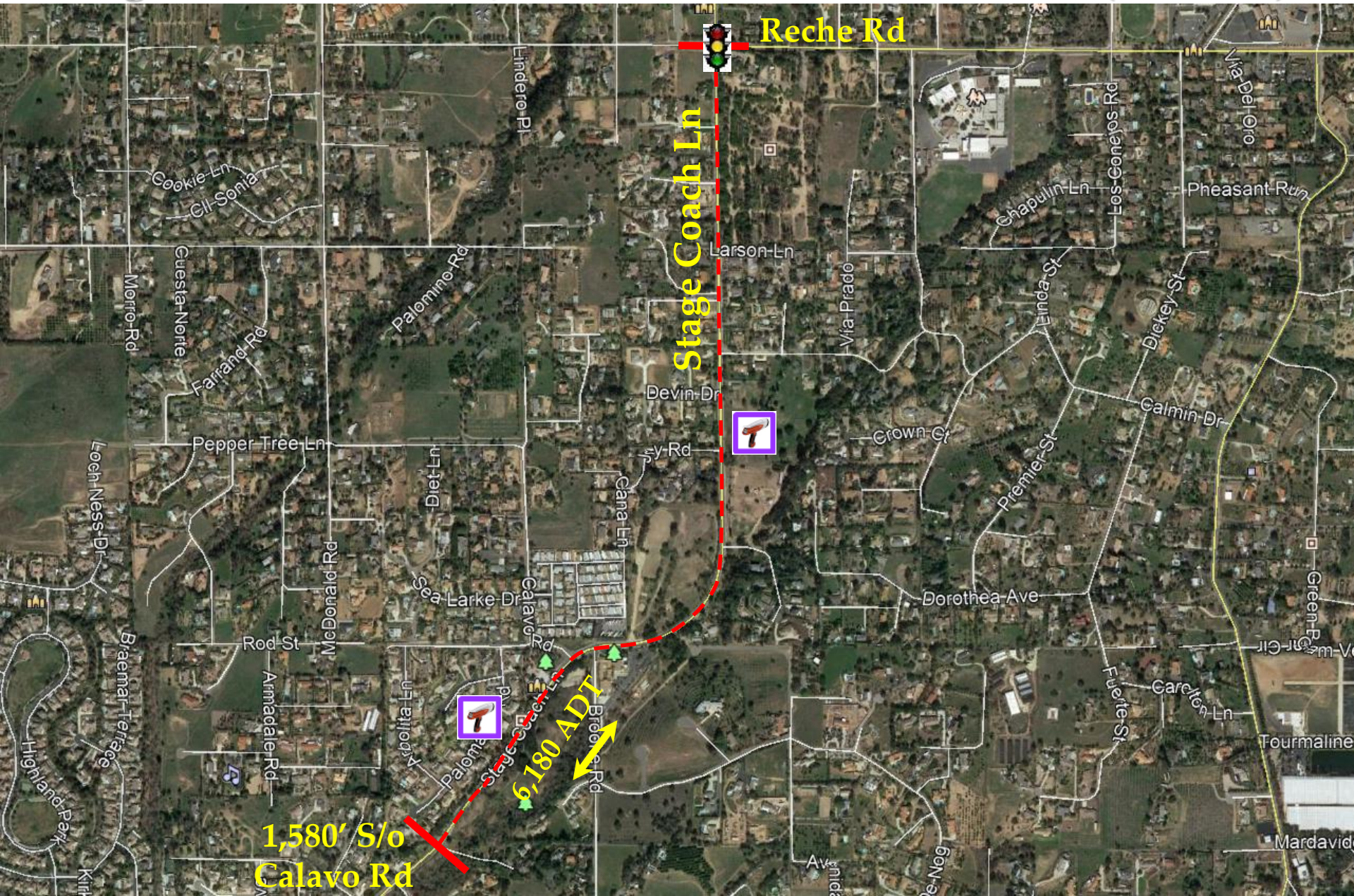
<u>Speed Data</u>		<u>85th Percentile</u>	<u>10 MPH Pace</u>	<u>% in Pace</u>
Stage Coach Lane				
680' S/o Calavo Rd	(2018)	47.1 MPH	37-46	70.0%
	(2011)	47.9 MPH	38-47	69.2%
2,690' S/o Reche Rd	(2018)	50.8 MPH	43-52	76.0%
	(2011)	47.5 MPH	39-48	75.5%
Speed Zone	(2018)	48.9 MPH	40-49	73.0%

Collision Data

There have been 17 reported collisions along this segment of roadway, 5 of which involved injury, in a 5 year period (8-1-13 to 7-31-18). These collisions result in a segment accident rate of 1.26 collisions per million vehicle miles. The statewide average is 1.19 collisions per million vehicle miles for similar suburban conventional 2 lanes or less with speed limit between 45-55 mile per hour.

5-C. Radar Certification

Stage Coach Ln from 1,580' S/o Calavo Rd to Reche Rd (1.2 miles)



VOLUME

Stage Coach Ln 800' S/O Calavo Rd

Day: Tuesday
Date: 4/24/2018City: Fallbrook
Project #: CA18_4120_006

DAILY TOTALS					NB	SB						EB	WB						Total
					3,120	3,062						0	0						6,182
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL							
00:00	2	2			4		12:00	33	40			73							
00:15	4	1			5		12:15	33	45			78							
00:30	4	3			7		12:30	35	42			77							
00:45	2	12	4	10	6	22	12:45	35	136	38	165	73	301						
01:00	0	1			1		13:00	36	35			71							
01:15	0	2			2		13:15	29	34			63							
01:30	2	1			3		13:30	41	37			78							
01:45	1	3	3	7	4	10	13:45	29	135	63	169	92	304						
02:00	0	1			1		14:00	31	48			79							
02:15	0	3			3		14:15	19	41			60							
02:30	1	0			1		14:30	79	43			122							
02:45	0	1	1	5	1	6	14:45	77	206	118	250	195	456						
03:00	4	0			4		15:00	72	120			192							
03:15	1	0			1		15:15	80	73			153							
03:30	2	1			3		15:30	65	63			128							
03:45	2	9	1	2	3	11	15:45	60	277	56	312	116	589						
04:00	3	0			3		16:00	52	71			123							
04:15	8	2			10		16:15	56	50			106							
04:30	4	1			5		16:30	40	65			105							
04:45	11	26	9	12	20	38	16:45	49	197	47	233	96	430						
05:00	16	2			18		17:00	53	65			118							
05:15	29	2			31		17:15	55	74			129							
05:30	25	8			33		17:30	45	67			112							
05:45	32	102	9	21	41	123	17:45	49	202	63	269	112	471						
06:00	40	10			50		18:00	52	45			97							
06:15	49	12			61		18:15	47	55			102							
06:30	53	28			81		18:30	57	52			109							
06:45	78	220	31	81	109	301	18:45	41	197	46	198	87	395						
07:00	110	53			163		19:00	29	42			71							
07:15	150	101			251		19:15	19	29			48							
07:30	119	158			277		19:30	14	41			55							
07:45	70	449	58	370	128	819	19:45	26	88	41	153	67	241						
08:00	66	42			108		20:00	20	33			53							
08:15	67	31			98		20:15	29	25			54							
08:30	54	31			85		20:30	26	44			70							
08:45	37	224	40	144	77	368	20:45	26	101	31	133	57	234						
09:00	43	23			66		21:00	27	28			55							
09:15	29	24			53		21:15	13	28			41							
09:30	29	30			59		21:30	7	29			36							
09:45	43	144	24	101	67	245	21:45	9	56	16	101	25	157						
10:00	50	31			81		22:00	8	7			15							
10:15	32	28			60		22:15	4	12			16							
10:30	24	26			50		22:30	4	7			11							
10:45	49	155	42	127	91	282	22:45	6	22	6	32	12	54						
11:00	39	35			74		23:00	8	12			20							
11:15	33	31			64		23:15	2	16			18							
11:30	33	23			56		23:30	5	8			13							
11:45	35	140	40	129	75	269	23:45	3	18	2	38	5	56						
TOTALS	1485	1009			2494		TOTALS	1635	2053			3688							
SPLIT %	59.5%	40.5%			40.3%		SPLIT %	44.3%	55.7%			59.7%							

DAILY TOTALS					NB	SB						EB	WB						Total
					3,120	3,062						0	0						6,182
AM Peak Hour	06:45	07:00			07:00		PM Peak Hour	14:30	14:45			14:45							
AM Pk Volume	457	370			819		PM Pk Volume	308	374			668							
Pk Hr Factor	0.762	0.585			0.739		Pk Hr Factor	0.963	0.779			0.856							
7 - 9 Volume	673	514	0	0	1187		4 - 6 Volume	399	502	0	0	901							
7 - 9 Peak Hour	07:00	07:00			07:00		4 - 6 Peak Hour	16:45	17:00			17:00							
7 - 9 Pk Volume	449	370	0	0	819		4 - 6 Pk Volume	202	269	0	0	471							
Pk Hr Factor	0.748	0.585	0.000	0.000	0.739		Pk Hr Factor	0.918	0.909	0.000	0.000	0.913							

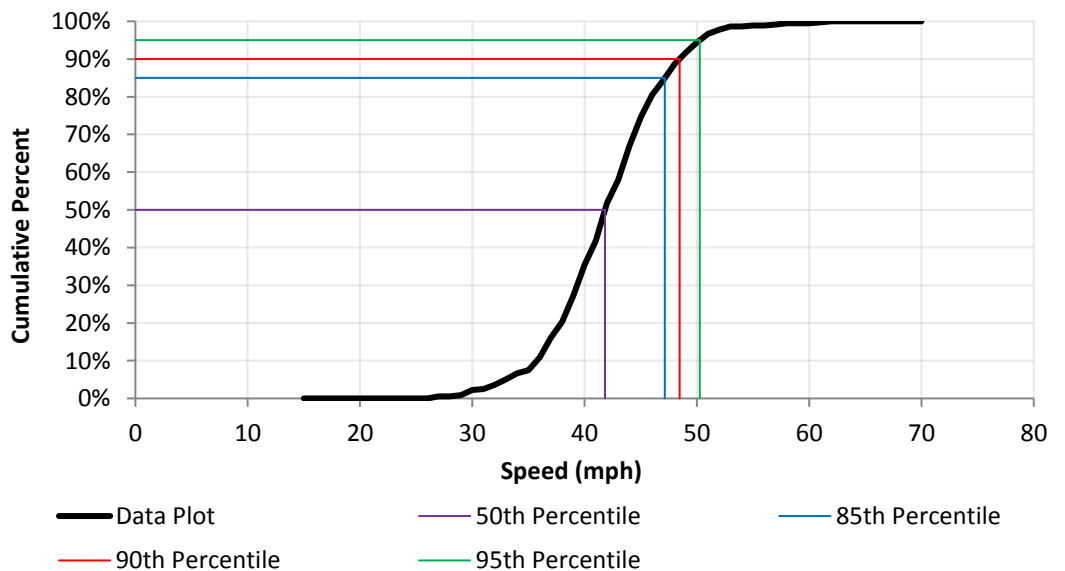
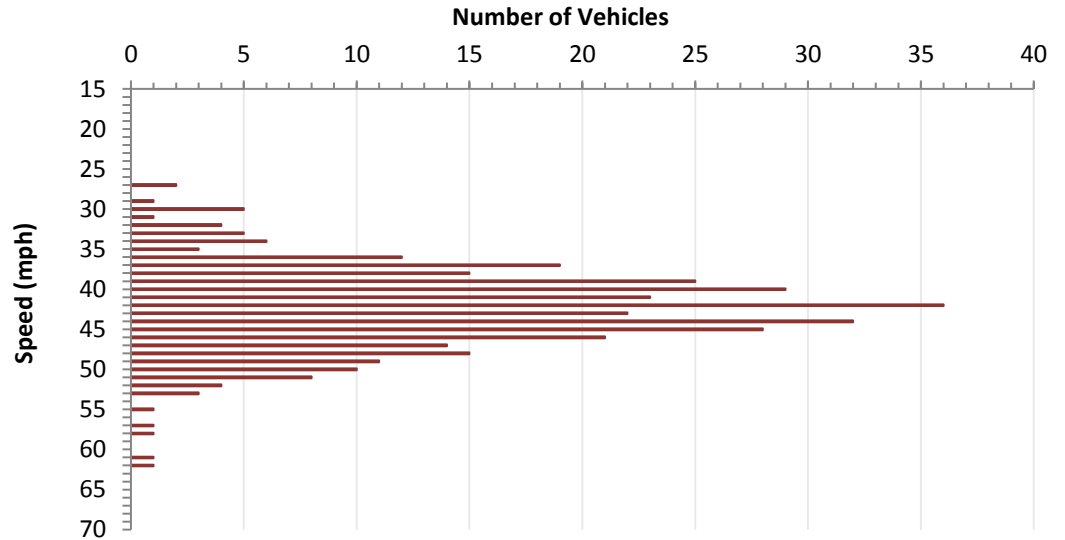


RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Stage Coach Lane	From:	1,580' SO Calavo Rd	To:	Reche Road
Position:	680' SO Calavo Rd	Direction:	NB/SB		
Date:	4/10/2018	Weather:	Clear	Project Number:	0
Time Start:	9:00 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	11:00 AM	Posted Speed:	45 mph	Calibration Test:	0

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27	2	0.6%
28		
29	1	0.8%
30	5	2.2%
31	1	2.5%
32	4	3.6%
33	5	5.0%
34	6	6.7%
35	3	7.5%
36	12	10.9%
37	19	16.2%
38	15	20.3%
39	25	27.3%
40	29	35.4%
41	23	41.8%
42	36	51.8%
43	22	57.9%
44	32	66.9%
45	28	74.7%
46	21	80.5%
47	14	84.4%
48	15	88.6%
49	11	91.6%
50	10	94.4%
51	8	96.7%
52	4	97.8%
53	3	98.6%
54		
55	1	98.9%
56		
57	1	99.2%
58	1	99.4%
59		
60		
61	1	99.7%
62	1	100.0%
63		
64		
65		
66		
67		
68		
69		
70		
Total	359	



DATA ANALYSIS

Average Speed	42.4	Range	27 - 62
50th Percentile	41.8	10 mph Pace	37 - 46
85th Percentile	47.1	Number in Pace	250
90th Percentile	48.5	Percent in Pace	70%
95th Percentile	50.3		



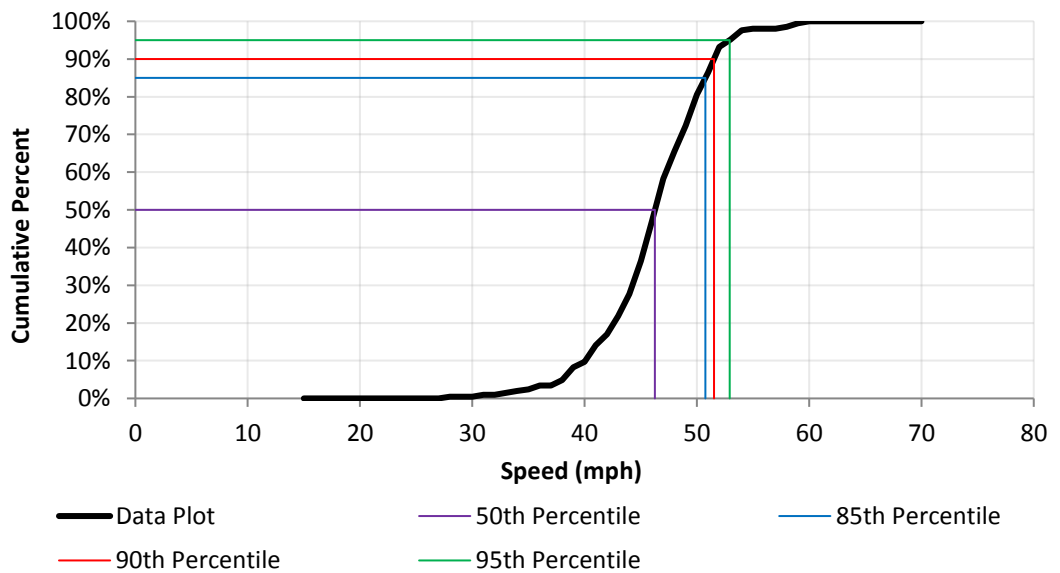
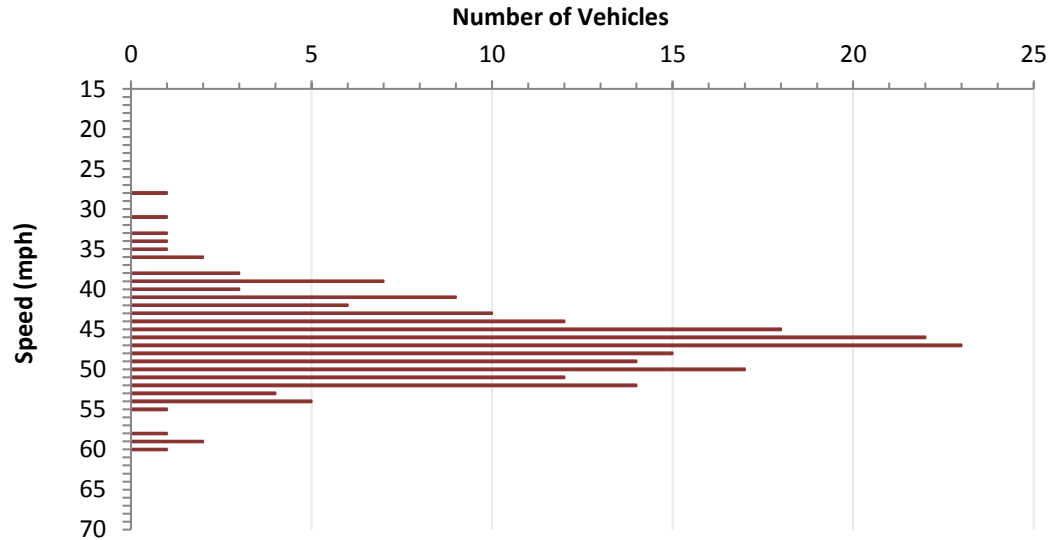
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Stage Coach Lane	From:	1,580' SO Calavo Rd	To:	Reche Road
Position:	2,690' SO Reche Rd	Direction:	NB/SB		

Date:	4/10/2018	Weather:	Clear	Project Number:	0
Time Start:	11:30 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	1:30 PM	Posted Speed:	45 mph	Calibration Test:	0

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28	1	0.5%
29		
30		
31	1	1.0%
32		
33	1	1.5%
34	1	1.9%
35	1	2.4%
36	2	3.4%
37		
38	3	4.9%
39	7	8.3%
40	3	9.7%
41	9	14.1%
42	6	17.0%
43	10	21.8%
44	12	27.7%
45	18	36.4%
46	22	47.1%
47	23	58.3%
48	15	65.5%
49	14	72.3%
50	17	80.6%
51	12	86.4%
52	14	93.2%
53	4	95.1%
54	5	97.6%
55	1	98.1%
56		
57		
58	1	98.5%
59	2	99.5%
60	1	100.0%
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	206	



DATA ANALYSIS

Average Speed	46.6	Range	28 - 60
50th Percentile	46.3	10 mph Pace	43 - 52
85th Percentile	50.8	Number in Pace	157
90th Percentile	51.5	Percent in Pace	76%
95th Percentile	52.9		

SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: December 14, 2018

Item 5-D

SUPERVISORIAL DISTRICT: 5

SUBJECT: Intersection Control

LOCATION: Linea del Cielo at Rambla de las Flores/Calzada del Bosque, RANCHO SANTA FE (Thos. Bros.1168-B5)

INITIATED BY: Traffic Engineering

REQUEST: All-Way Stop Control

PROBLEM AS STATED BY REQUESTOR:

This intersection is a non-standard 4-legged intersection. Rambla de las Flores and Calzada del Bosque legs intersect Linea del Cielo are on the west and east side of the intersection respectively. The roads intersect Linea del Cielo offset with Calzada del Bosque's centerline and intersecting Linea del Cielo approximately 60 feet north of Rambla de las Flores' centerline.

The intersection meets California MUTCD, Section 2B.07, criteria B, C, and optional criteria C for multi-way stop.

Existing Traffic Devices

Calzada del Bosque is a striped two-lane roadway that intersects Linea del Cielo, runs east/west, and has a 24 foot travelled way. It is stopped controlled in the westbound direction at Linea del Cielo. This roadway is unclassified on the County General Plan Mobility Element Network.

Rambla de las Flores is a striped two-lane roadway that intersects Linea del Cielo, runs east/west, and has a travelled way of 24 feet wide. It is stop controlled in the eastbound direction at Linea del Cielo. This roadway is unclassified on the County General Plan Mobility Element Network.

Linea del Cielo is a striped two-lane roadway that runs north/south and has a 24 foot travelled way. There are currently offset intersection signs with street name plaques and flashing beacon approaching the intersection with Rambla de las Flores and Calzada del Bosque. This roadway is classified as a Light Collector on the County General Plan Mobility Element Network.

Linea de Cielo and
Rambla de las Flores/Calzada del Bosque

2

Item 5-D

Average Daily Traffic Volumes

04/18

Linea del Cielo

4,285 NB

2,645 SB

Rambla de las Flores

1,660 EB

Calzada del Bosque

2,980 WB

Collision Data

There have been 22 reported collisions at this intersection, 11 of which involved injury in the last 5 year period (03-05-13 to 03-04-18). These collisions result in an intersection accident rate of 1.04 collisions per million vehicle entering. The statewide average is 0.26 collisions per million vehicles entering for similar 4-legged intersections. This includes 1 year of 5 collisions susceptible for correction with a multi-way stop.

5-D. Intersection Control

Linea del Cielo and Rambla de las Flores/Calzada del Bosque





County of San Diego

RICHARD E. CROMPTON
DIRECTOR

DEPARTMENT OF PUBLIC WORKS
5510 OVERLAND AVE, SUITE 410
SAN DIEGO, CALIFORNIA 92123-1237
(858) 694-2212 FAX: (858) 694-3597
Web Site: www.sdcountry.ca.gov/dpw/

COUNTY TRAFFIC ENGINEER RECOMMENDATION

Date: November 27, 2018

Item Title: All-Way Stop Control

Location: Intersection of Linea Del Cielo and Rambla De Las Flores /
Calzada Del Bosque, Rancho Santa Fe

CTE Recommendation: **Install an All-Way Stop Control** *[Signature]*

Conditions:

- Section 21354 "Stop Signs on Local Highways" of the California Vehicle Code authorizes a local agency to designate any intersection under its exclusive jurisdiction as a stop intersection.
- Section 2B.07 "Multi-Way Stop Applications" of the California Manual on Uniform Traffic Control Devices (MUTCD) provides guidelines that should be considered in an engineering study when evaluating an intersection for an all-way stop control.
- Criteria B - An All-Way Stop Control should be considered at an intersection which has five or more reported crashes in a 12-month period that are susceptible to correction by a multi-way stop control.
- During the period of March 5, 2014 to March 4, 2015, the subject intersection had 6 crashes with 5 of these crashes could be corrected by an all-way stop control.

- Criteria C - An All-Way Stop Control should be considered at an intersection where the vehicular volumes entering the intersection from the major street (both approaches) averages at least 300 vehicles per hour for any 8 hours of a day and the combined vehicular, pedestrian, and bicycle volume entering from the minor street (both approaches) averages at least 200 units per hour for the same 8 hours with an average delay to minor street vehicular traffic of at least 30 seconds per vehicle during the highest hour.
- This Subject intersection has over 8 hours (12 hours) averaging above 300 vehicles per hour on the major street (Linea Del Cielo) and above 200 vehicles per hour approaching on the minor street (Rambla de las Flores/Calzada del Bosque) during the same 12 hours.
- In addition to the noted All-Way Stop Control criteria, the controlled approaches of Rambla De Las Flores and Calzada Del Bosque lacks adequate line of sight to enter Linea Del Cielo in a safe manner and, therefore, Option C of Section 2B.07 is met and can be used to justify an all-way stop controls at this intersection.
- It is therefore, my recommendation that the intersection of Linea Del Cielo and Rambla De Las Flores / Calzada Del Bosque be converted from a two-way stop controlled to an all-way stop controlled intersection.



**Rancho Santa Fe Association
Board of Directors
Minutes of Regular Meeting
October 4, 2018**

Present

A. Board Members:

Ken Markstein, President
Allen Finkelson, Vice President
Janet Danola, Treasurer
Steve Dunn, Director
Mike Gallagher, Director
Sharon Ruhnau, Director
Rick Sapp, Director

B. Others Present:

Christy Whalen, Manager
Tom Farrar, Building Commissioner
Seth Goldman, Chief Financial Officer
Arnold Keene, Assistant Manager
Brooke Nichols, Executive Assistant
Matt Wellhouser, RSF Patrol Chief

1. Call to Order

President Markstein called the meeting to order at 9:39 am at the RSF Golf Club.

2. Member Input

Two members shared input.

3. Actions Taken in Executive Sessions on September 6, 2018, September 27, 2018, and October 4, 2018

Treasurer Danola disclosed that on September 6, 2018, disciplinary matters, contractual matters, and legal matters were discussed in Executive Session. In Executive Session held on September 27, 2018, personnel items were discussed. On October 4, 2018, disciplinary matters, contractual matters, legal matters, and personnel matters were discussed in Executive Session.

4. Consent Agenda Items

A. Minutes of September 6, 2018

Vice President Finkelson moved to approve the minutes of September 6, 2018. Director Sapp seconded the motion.

The motion passed 7/0.

5. Manager's Report

Manager Whalen shared information on community events. Halloween in the Village is October 26, 2018, from 3:00 – 5:00 pm. The RSF Connect Groundbreaking Ceremony was held on September 27, 2018 at the Control Office site. Rancho Days 2018 will conclude this weekend. Ms. Whalen also announced that a form is available online for members to oppose the water rate tiered structure set by SFID.

6. RSF Connect

A. Update

Assistant Manager Keene thanked the County of San Diego for supporting and permitting the RSF Connect project. Mr. Keene described the build process for the Control Office and trunk lines, which will bring the network into the Ranch.

7. Linea del Cielo / Calzada del Bosque All-Way Stop

Patrol Chief Wellhouser shared statistics on accidents and hazards at the intersection. Kenton Jones of the County of San Diego Traffic Advisory Committee presented models and simulations of an all-way stop at the intersection. Murali Pasumarthi shared the notification and approval processes at the County level for the project. Discussion ensued. Director Sapp moved to support the installation of an all-way stop at the intersection of Linea del Cielo and Calzada del Bosque. Director Gallagher seconded the motion.

The motion passed 7/0.

8. Bank Loans for Financing of RSF Connect and Refinancing of Golf Club Loan

President Markstein deferred this item to the October 8, 2018, Board of Directors meeting.

9. Assessment Rate and Allocation of 2.5 Cents Portion of that Assessment

Association CFO Goldman recommended keeping the assessment rate at 14 cents per \$100 of County assessed property value, allocating 2.5 cents to the fiber-optic fund. Director Sapp moved to set the assessment rate at 14 cents per \$100 of County assessed property value. Treasurer Danola seconded the motion.

The motion passed 7/0.

10. Forest Health and Preservation Committee Appointment

The Board unanimously appointed Ruth Evans to the Forest Health and Preservation Committee.

11. Resolution 2018-118, Time Extension for Covenant Modification CM-18-01

Building Commissioner Farrar presented a time extension request from the applicant for Covenant Modification CM-18-01. Vice President Finkelson moved to extend the expiration date by six months. Director Dunn seconded the motion. Discussion ensued. Vice President Finkelson amended his previous motion, adopting Resolution 2018-118 and extending the expiration date to December 6, 2018. Mr. Finkelson stated the CDRC decision was recent and that the extension would give additional time fairness to the applicant. He emphasized that granting the extension is not a sign of support or lack thereof from the Board for the project. Director Dunn seconded the motion.

The motion passed 7/0.

12. Building Commissioner's Report

Mr. Farrar shared progress on the Regulatory Code update.

13. Term Limits

The Board discussed term limits for the Board of Directors. Board Members shared their opinions that recruiting is essential for Committee and Board involvement.

The meeting adjourned at 11:29 am

Ken Markstein, President

Christy Whalen, Manager and Secretary

VOLUME

Linea Del Cielo & Rambla De Las Flores/Calzada Del Bosque

Day: Wednesday
Date: 4/4/2018City: Rancho Santa Fe
Project #: CA18_4119_001

DAILY TOTALS					NB	SB						EB	WB						Total
					4,283	2,644						1,661	2,982						11,570
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL							TOTAL
00:00	3	1	1	1	6		12:00	56	48	26	27	157							
00:15	1	0	3	2	6		12:15	63	49	30	39	181							
00:30	5	3	0	1	9		12:30	64	42	17	33	156							
00:45	0	9	4	8	0	4	12:45	73	256	36	175	660							
01:00	5	0	0	0	5		13:00	70	45	27	37	179							
01:15	0	2	0	0	2		13:15	74	34	22	30	160							
01:30	0	0	1	0	1		13:30	81	42	19	41	183							
01:45	1	6	0	2	1	9	13:45	60	285	46	167	672							
02:00	1	0	0	0	1		14:00	79	39	30	52	200							
02:15	0	1	0	1	2		14:15	76	47	22	45	190							
02:30	1	3	0	1	5		14:30	75	56	30	48	209							
02:45	2	4	0	4	2	10	14:45	102	332	49	191	851							
03:00	0	0	0	1	1		15:00	102	57	33	70	262							
03:15	0	0	0	0	0		15:15	87	60	34	75	256							
03:30	0	0	0	0	0		15:30	114	54	31	66	265							
03:45	2	2	3	3	0	1	15:45	114	417	52	223	1070							
04:00	0	1	0	0	1		16:00	121	49	34	77	281							
04:15	1	1	0	0	2		16:15	122	27	26	79	254							
04:30	1	1	3	0	5		16:30	101	41	28	86	256							
04:45	1	3	3	6	1	4	16:45	113	457	28	145	1030							
05:00	1	4	2	5	12		17:00	130	46	33	73	282							
05:15	4	3	3	2	12		17:15	151	41	24	83	299							
05:30	6	5	6	8	25		17:30	128	28	27	102	285							
05:45	17	28	21	33	6	17	17:45	92	501	35	150	1110							
06:00	16	9	7	15	47		18:00	80	27	34	75	216							
06:15	23	21	11	21	76		18:15	83	30	25	57	195							
06:30	35	37	23	21	116		18:30	65	23	17	46	151							
06:45	43	117	36	103	32	73	18:45	58	286	18	98	685							
07:00	45	58	41	30	174		19:00	56	19	10	38	123							
07:15	49	72	40	48	209		19:15	40	19	8	22	89							
07:30	53	65	50	80	248		19:30	37	13	9	16	75							
07:45	72	219	86	281	64	195	19:45	30	163	11	62	354							
08:00	61	101	47	90	299		20:00	37	7	10	9	63							
08:15	58	65	49	57	229		20:15	25	16	2	9	52							
08:30	66	69	58	74	267		20:30	21	12	8	9	50							
08:45	67	252	54	289	49	203	20:45	21	104	8	43	209							
09:00	60	60	48	44	212		21:00	23	11	4	11	49							
09:15	60	56	45	41	202		21:15	22	5	5	8	40							
09:30	46	50	30	44	170		21:30	13	6	1	11	31							
09:45	54	220	50	216	20	143	21:45	15	73	6	28	146							
10:00	46	66	18	34	164		22:00	11	2	1	5	19							
10:15	55	49	21	42	167		22:15	9	2	4	4	19							
10:30	48	52	24	39	163		22:30	18	0	0	2	20							
10:45	61	210	33	200	28	91	22:45	10	48	3	7	73							
11:00	51	40	21	37	149		23:00	14	7	0	3	24							
11:15	57	49	24	20	150		23:15	11	1	3	1	16							
11:30	62	55	23	54	194		23:30	9	3	2	4	18							
11:45	86	256	52	196	28	96	23:45	1	35	3	14	66							
TOTALS	1326	1341	827	1150	4644		TOTALS	2957	1303	834	1832	6926							
SPLIT %	28.6%	28.9%	17.8%	24.8%	40.1%		SPLIT %	42.7%	18.8%	12.0%	26.5%	59.9%							

DAILY TOTALS					NB	SB						EB	WB						Total
					4,283	2,644						1,661	2,982						11,570
AM Peak Hour	11:45	07:15	07:45	07:30	07:45		PM Peak Hour	16:45	15:00	15:15	17:15	17:00							
AM Pk Volume	269	324	218	314	1104		PM Pk Volume	522	223	142	354	1110							
Pk Hr Factor	0.782	0.802	0.852	0.872	0.893		Pk Hr Factor	0.864	0.929	0.826	0.868	0.928							
7 - 9 Volume	471	570	398	529	1968		4 - 6 Volume	958	295	217	670	2140							
7 - 9 Peak Hour	07:45	07:15	07:45	07:30	07:45		4 - 6 Peak Hour	16:45	16:30	16:00	17:00	17:00							
7 - 9 Pk Volume	257	324	218	314	1104		4 - 6 Pk Volume	522	156	110	352	1110							
Pk Hr Factor	0.892	0.802	0.852	0.872	0.893		Pk Hr Factor	0.864	0.848	0.809	0.863	0.928							