

MEMORANDUM

LINSCOTT
LAW &
GREENSPAN

engineers

To: Mr. Oscar Uranga
IMG Construction Management

Date: May 24, 2019

From: Walter B. Musial, P.E.
LLG, Engineers

LLG Ref: 3-18-2978

Subject: Summit Estates – Summit Drive Transportation Review

Engineers & Planners

Traffic

Transportation

Parking

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Linscott, Law and Greenspan, Engineers (LLG) has prepared a transportation review of Summit Drive located near the intersection of Summit Drive and Mary Lane in the County of San Diego, just east of the City of Escondido. This review is required as part of the Summit Estates project. The project is proposing 20 estate homes with access on Summit Drive. The conceptual site plan is attached as **Attachment A**.

The study reviews County roadway standards and prevailing conditions related to horizontal radius, vehicle accidents, prevailing speeds, and advisory signs along the Summit Drive. No sight distance review was conducted.

Pasadena

Irvine

San Diego

Woodland Hills

Existing Conditions

Summit Drive is a currently constructed as a two-lane undivided road in the vicinity of the project. No sidewalks, bike lanes or curbs are provided. Summit Drive typically intersects with lower classification roadways with stop control on the minor legs. The intersection of Summit Drive and Mary Lane is the most notable intersection in the vicinity of the project as both roadways intersect with a measurable amount of traffic. Mary Lane is stop controlled and Summit Drive is free flowing at this intersection.

Summit Drive has a number of speed and horizontal alignment ‘advisory’ signs. The speed signs range from 15-20 MPH and the horizontal alignment signs include advance warning messages or trajectory arrows approaching curves.

Data Collection

For the purpose of this study, LLG collected a 24-hour Average Daily Traffic (ADT) and speed survey on Summit Drive between Palma Drive and Mary Lane. The data was collected at the three (3) locations along Summit Drive. **Attachment B** contains the count data sheets. Table 1 summarizes the ADT and 85th percentile speed on Summit Drive at the three (3) locations.

Table 1: Volume and Speed Summary

No.	Location	ADT	85th Percentile Speed		
			EB	WB	Combined
1	Summit Drive S/O Palma Vista Court	1916	30 mph	30 mph	30 mph
2	Summit Drive E/O Mary Lane	774	24 mph	27 mph	26 mph
3	Summit Drive W/O 2658 Summit Drive Driveway	770	33 mph	32 mph	33 mph
Average Speed					30 mph

The accidents history was also collected from the Statewide Integrated Traffic Records System (SWITRS) for the most recent five years on Summit Drive within study area. One (1) collision was noted in the last five years at the intersection of Summit Drive and Mary Lane. Details of the accident are attached as **Attachment C**.

The attached aerial map summarizes the collected traffic data, accident data, and field observations. The aerial data map is attached as **Attachment D**.

County Public Road Standards

Summit Drive is currently classified as a Community Collector - No Median (2.1E). The County Public Road Standards requires a 45 MPH minimum design speed for this classification. A Community Collector's acceptable capacity (LOS E) is 16,200 ADT which is substantially higher than observed traffic.

Long-Term (Year-2035) traffic volumes were also forecasted for the study area using the SANDAG Series 12 Regional Traffic Model. Table 2 summarizes the Year – 2035 roadway segment capacity. As seen in the Table 2, Summit Drive is expected to operate at an acceptable LOS B on a daily basis for the future conditions (Year 2035).

Table 2: Summit Drive Segment Operation

Conditions	Capacity ^a (LOS E)	ADT	LOS	Source
Existing	16,200	1,916	B	Manual Counts – LLG
Year 2035	16,200	3,200	B	Series 12 – SANDAG

Footnotes:

- Capacities based on the County of San Diego Roadway Classification & LOS Table for Community Collector (See Attachment E)

Given the average prevailing 30 MPH speed, 15-20 MPH advisory speeds in the vicinity, and lower traffic volumes observed, the current design standards may not be the most appropriate roadway standard under these conditions. It is important to note that a roadway reclassification is not proposed as part of the project but rather a review to determine an appropriate roadway design speed along the project frontage.

Recommendations

In order to best reflect current prevailing conditions, a lower roadway classification standard may be more appropriate for the project design. If deemed acceptable to the County Engineer, a Residential Collector with a 30 mph design speed and 300' minimum radius would better fit the prevailing conditions. A Residential Collector's acceptable capacity (LOS C) is 4,500 ADT and would better align with current and future traffic conditions. Based on the recommended Residential Collector LOS criteria, the Summit Drive will continue to operate under acceptable LOS (LOS C) in the future (Year 2035). A Minor Collector- No Median (2.3C) with a 35 mph design speed was considered but the increased radius may promote a higher speed which is not desirable.

Advisory signs would also be required to provide advance warning to drivers as they approach curves or other conditions that require lower speeds. The California Manual on Uniform Traffic Control Devices (CA MUTCD) shall be the primary guidelines for the designation of advisory signs/warning devices and implemented to the satisfaction of the City Engineer

A post-construction speed survey is also recommended to validate the prevailing speed observed. The results of the speed survey will determine driver compliance with the advisory speeds and final roadway design. Further measures may be required based on the results.

The City is also encouraged to review the geometric design of Summit Drive and Mary Lane to address the noted accident in 2014. Given this is a pre-existing condition, the project is not required but encouraged to assist the City to improve operations. Traffic counts would be required to determine the prominent turn movements and develop the appropriate traffic control/geometry.

The Design Exception Request (DER) is attached as ***Attachment F***.

Please review and call if you have any questions.

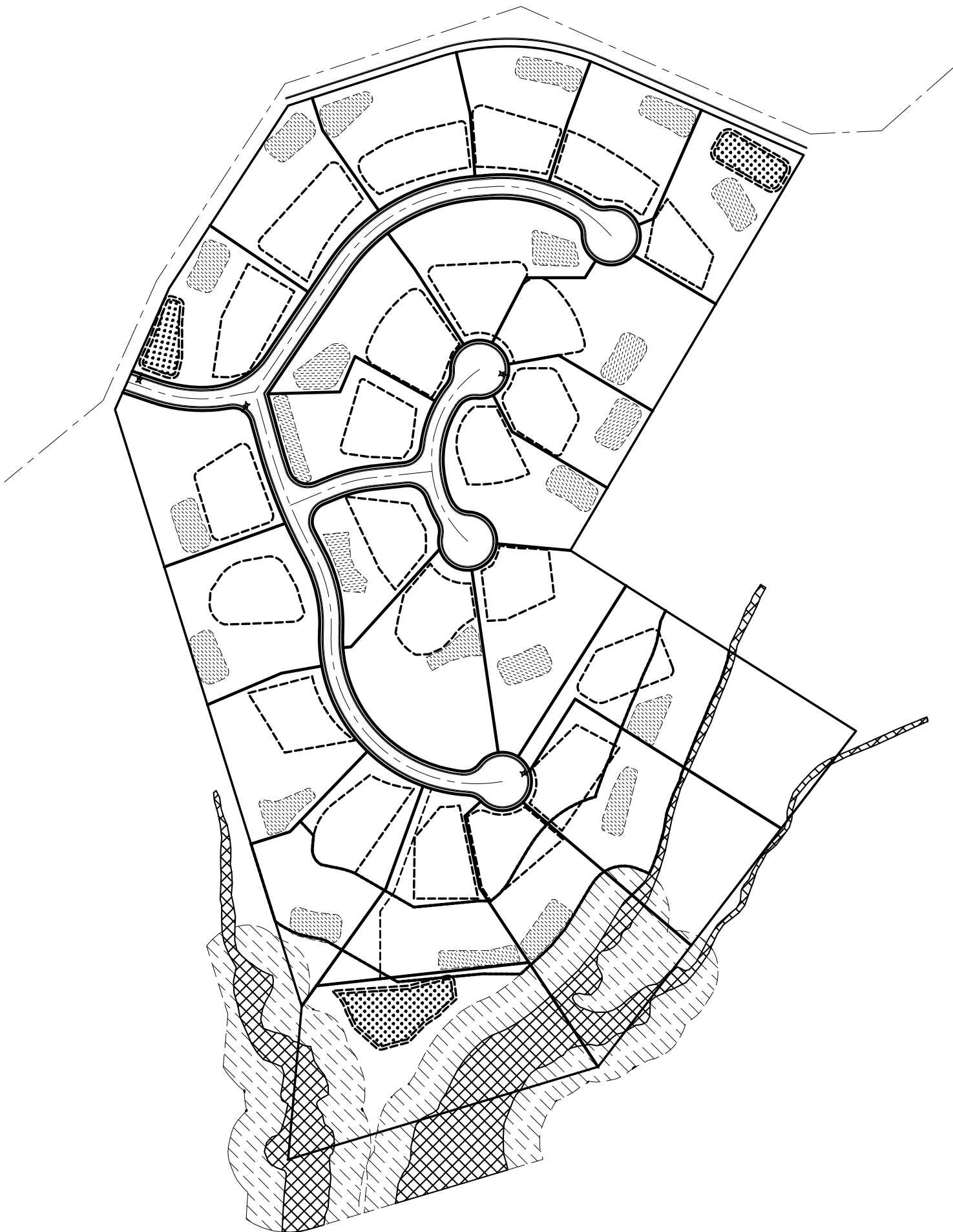


<i>Attachments</i>	<i>Attachments</i>
Attachment A: Site Plan	Attachment D: Aerial Data Map
Attachment B: Existing Traffic and Speed Data	Attachment E: Roadway Classification
Attachment C: Accident Data	Attachment E: Design Exception

Mr. Oscar Uranga
May 24, 2019
Page 5



Attachment A: Site Plan



Mr. Oscar Uranga
May 24, 2019
Page 6



Attachment B: ADT/Speed Data

SPEED

Summit Dr S/O Palma Vista Ct

Day: Thursday

Date: 4/11/2019

City: Escondido

Project #: CA19_4179_001n

North Bound

Time	< 15	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 +	Total
00:00 AM	0	1	1	0	0	0	0	0	0	0	0	0	0	2
01:00	0	0	1	2	0	0	0	0	0	0	0	0	0	3
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	1	1	2	0	1	0	0	0	0	0	0	0	5
05:00	0	0	2	0	0	0	0	0	0	0	0	0	0	2
06:00	0	0	3	6	4	0	0	0	0	0	0	0	0	13
07:00	0	2	10	33	13	0	0	0	0	0	0	0	0	58
08:00	0	1	12	32	10	1	1	0	0	0	0	0	0	57
09:00	0	1	10	7	3	0	0	0	0	0	0	0	0	21
10:00	1	2	17	11	2	0	0	0	0	0	0	0	0	33
11:00	1	2	16	15	1	0	1	0	0	0	0	0	0	36
12:00 PM	0	3	12	18	3	0	1	0	0	0	0	0	0	37
13:00	0	2	22	60	10	0	0	0	0	0	0	0	0	94
14:00	0	3	25	52	10	0	0	0	0	0	0	0	0	90
15:00	0	4	18	43	12	0	0	0	0	0	0	0	0	77
16:00	0	2	17	36	10	1	0	0	0	0	0	0	0	66
17:00	0	3	27	29	12	0	0	0	0	0	0	0	0	71
18:00	0	3	14	31	7	0	0	0	0	0	0	0	0	55
19:00	0	0	14	11	2	0	0	0	0	0	0	0	0	27
20:00	0	3	9	13	0	0	0	0	0	0	0	0	0	25
21:00	1	2	6	7	2	0	0	0	0	0	0	0	0	18
22:00	0	1	4	4	1	1	0	0	0	0	0	0	0	11
23:00	0	0	1	2	0	0	0	0	0	0	0	0	0	3
Totals	3	36	242	414	102	4	3							804
% of Totals	0%	4%	30%	51%	13%	0%	0%							100%

AM Volumes	2	10	73	108	33	2	2	0	0	0	0	0	0	230
% AM	0%	1%	9%	13%	4%	0%	0%							29%
AM Peak Hour	10:00	07:00	10:00	07:00	07:00	04:00	08:00							07:00
Volume	1	2	17	33	13	1	1							58
PM Volumes	1	26	169	306	69	2	1	0	0	0	0	0	0	574
% PM	0%	3%	21%	38%	9%	0%	0%							71%
PM Peak Hour	21:00	15:00	17:00	13:00	15:00	16:00	12:00							13:00
Volume	1	4	27	60	12	1	1							94
Directional Peak Periods		AM 7-9		NOON 12-2		PM 4-6		Off Peak Volumes						
All Speeds		Volume	%	Volume	%	Volume	%	Volume	%					
		115	14%	131	16%	137	17%	421	52%					

Street Name	Direction	Percentiles					
		15th	50th	Average	85th	95th	ADT
Summit Dr	North Bound	22	26	26	30	33	804
Summit Dr	South Bound	24	27	27	30	34	1112

SPEED

Summit Dr S/O Palma Vista Ct

Day: Thursday

Date: 4/11/2019

City: Escondido

Project #: CA19_4179_001s

South Bound

Time	< 15	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 +	Total
00:00 AM	0	0	2	0	0	0	0	0	0	0	0	0	0	2
01:00	0	0	0	3	0	0	0	0	0	0	0	0	0	3
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	0	0	1	0	0	0	0	0	0	0	0	0	1
04:00	0	0	2	0	0	0	0	0	0	0	0	0	0	2
05:00	0	0	5	9	2	1	0	0	0	0	0	0	0	17
06:00	0	1	12	49	12	4	0	0	0	0	0	0	0	78
07:00	0	1	28	255	58	0	0	0	0	0	0	0	0	342
08:00	0	0	15	92	35	2	0	0	0	0	0	0	0	144
09:00	0	1	6	23	8	1	0	0	0	0	0	0	0	39
10:00	1	2	14	17	6	0	0	0	0	0	0	0	0	40
11:00	0	1	11	27	1	0	0	0	0	0	0	0	0	40
12:00 PM	0	1	14	25	1	0	0	0	0	0	0	0	0	41
13:00	0	0	10	32	3	1	0	0	0	0	0	0	0	46
14:00	0	2	14	29	6	1	0	0	0	0	0	0	0	52
15:00	1	2	11	30	8	0	0	0	0	0	0	0	0	52
16:00	0	1	15	29	3	1	0	0	0	0	0	0	0	49
17:00	0	2	17	27	5	0	0	0	0	0	0	0	0	51
18:00	0	0	20	27	5	0	0	0	0	0	0	0	0	52
19:00	0	0	9	18	2	0	0	0	0	0	0	0	0	29
20:00	0	0	4	8	4	1	0	0	0	0	0	0	0	17
21:00	0	0	2	6	2	0	0	0	0	0	0	0	0	10
22:00	0	1	0	3	0	0	0	0	0	0	0	0	0	4
23:00	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Totals	2	15	212	710	161	12								1112
% of Totals	0%	1%	19%	64%	14%	1%								100%

AM Volumes	1	6	95	476	122	8	0	0	0	0	0	0	0	708
% AM	0%	1%	9%	43%	11%	1%								64%
AM Peak Hour	10:00	10:00	07:00	07:00	07:00	06:00								07:00
Volume	1	2	28	255	58	4								342
PM Volumes	1	9	117	234	39	4	0	0	0	0	0	0	0	404
% PM	0%	1%	11%	21%	4%	0%								36%
PM Peak Hour	15:00	14:00	18:00	13:00	15:00	13:00								14:00
Volume	1	2	20	32	8	1								52
Directional Peak Periods			AM 7-9			NOON 12-2			PM 4-6			Off Peak Volumes		
All Speeds			Volume			Volume			Volume			Volume		
			486	↔		87	↔		100	↔		439	↔	
				44%			8%			9%			39%	

Street Name	Direction	Percentiles					
		15th	50th	Average	85th	95th	ADT
Summit Dr	North Bound	22	26	26	30	33	904

SPEED

Summit Dr S/O Palma Vista Ct

Day: Thursday

Date: 4/11/2019

City: Escondido

Project #: CA19_4179_001

Summary

Time	< 15	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 +	Total
00:00 AM	0	1	3	0	0	0	0	0	0	0	0	0	0	4
01:00	0	0	1	5	0	0	0	0	0	0	0	0	0	6
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	0	0	1	0	0	0	0	0	0	0	0	0	1
04:00	0	1	3	2	0	1	0	0	0	0	0	0	0	7
05:00	0	0	7	9	2	1	0	0	0	0	0	0	0	19
06:00	0	1	15	55	16	4	0	0	0	0	0	0	0	91
07:00	0	3	38	288	71	0	0	0	0	0	0	0	0	400
08:00	0	1	27	124	45	3	1	0	0	0	0	0	0	201
09:00	0	2	16	30	11	1	0	0	0	0	0	0	0	60
10:00	2	4	31	28	8	0	0	0	0	0	0	0	0	73
11:00	1	3	27	42	2	0	1	0	0	0	0	0	0	76
12:00 PM	0	4	26	43	4	0	1	0	0	0	0	0	0	78
13:00	0	2	32	92	13	1	0	0	0	0	0	0	0	140
14:00	0	5	39	81	16	1	0	0	0	0	0	0	0	142
15:00	1	6	29	73	20	0	0	0	0	0	0	0	0	129
16:00	0	3	32	65	13	2	0	0	0	0	0	0	0	115
17:00	0	5	44	56	17	0	0	0	0	0	0	0	0	122
18:00	0	3	34	58	12	0	0	0	0	0	0	0	0	107
19:00	0	0	23	29	4	0	0	0	0	0	0	0	0	56
20:00	0	3	13	21	4	1	0	0	0	0	0	0	0	42
21:00	1	2	8	13	4	0	0	0	0	0	0	0	0	28
22:00	0	2	4	7	1	1	0	0	0	0	0	0	0	15
23:00	0	0	2	2	0	0	0	0	0	0	0	0	0	4
Totals	5	51	454	1124	263	16	3							1916
% of Totals	0%	3%	24%	59%	14%	1%	0%							100%

AM Volumes	3	16	168	584	155	10	2	0	0	0	0	0	0	938
% AM	0%	1%	9%	30%	8%	1%	0%							49%
AM Peak Hour	10:00	10:00	07:00	07:00	07:00	06:00	08:00							07:00
Volume	2	4	38	288	71	4	1							400
PM Volumes	2	35	286	540	108	6	1	0	0	0	0	0	0	978
% PM	0%	2%	15%	28%	6%	0%	0%							51%
PM Peak Hour	15:00	15:00	17:00	13:00	15:00	16:00	12:00							14:00
Volume	1	6	44	92	20	2	1							142
Directional Peak Periods			AM 7-9			NOON 12-2			PM 4-6			Off Peak Volumes		
All Speeds			Volume	%		Volume	%		Volume	%		Volume	%	
			601	↔	31%	218	↔	11%	237	↔	12%	860	↔	45%

Street Name	Direction	Percentiles					
		15th	50th	Average	85th	95th	ADT
Summit Dr	Summary	22	27	27	29	34	1016

VOLUME
Summit Dr S/O Palma Vista Ct

Day: Thursday
Date: 4/11/2019

City: Escondido
Project #: CA19_4179_001

DAILY TOTALS					NB	SB						EB	WB	Total
					804	1,112						0	0	1,916
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL			
00:00	0	0	0	0		12:00	8	8	0	0	16			
00:15	1	0	0	0	1	12:15	12	9	0	0	21			
00:30	0	1	0	0	1	12:30	8	11	0	0	19			
00:45	1	2	1	2	2	12:45	9	37	13	41	22			
01:00	1	2	0	0	3	13:00	11	8	0	0	19			
01:15	1	0	0	0	1	13:15	12	12	0	0	24			
01:30	0	1	0	0	1	13:30	33	14	0	0	47			
01:45	1	3	0	3	1	13:45	38	94	12	46	50			
02:00	0	0	0	0		14:00	22	10	0	0	32			
02:15	0	0	0	0		14:15	17	15	0	0	32			
02:30	0	0	0	0		14:30	28	13	0	0	41			
02:45	0	0	0	0		14:45	23	90	14	52	37			
03:00	0	0	0	0		15:00	27	11	0	0	38			
03:15	0	1	0	0	1	15:15	16	17	0	0	33			
03:30	0	0	0	0		15:30	16	13	0	0	29			
03:45	0	0	1	0	1	15:45	18	77	11	52	29			
04:00	0	0	0	0		16:00	20	8	0	0	28			
04:15	1	0	0	0	1	16:15	24	17	0	0	41			
04:30	2	0	0	0	2	16:30	12	13	0	0	25			
04:45	2	5	2	2	4	16:45	10	66	11	49	21			
05:00	0	4	0	0	4	17:00	17	12	0	0	29			
05:15	1	4	0	0	5	17:15	12	10	0	0	22			
05:30	1	4	0	0	5	17:30	17	15	0	0	32			
05:45	0	2	5	17	5	17:45	25	71	14	51	39			
06:00	1	7	0	0	8	18:00	15	14	0	0	29			
06:15	2	13	0	0	15	18:15	17	14	0	0	31			
06:30	5	13	0	0	18	18:30	16	14	0	0	30			
06:45	5	13	45	78	50	18:45	7	55	10	52	17			
07:00	11	94	0	0	105	19:00	11	16	0	0	27			
07:15	19	96	0	0	115	19:15	8	2	0	0	10			
07:30	13	76	0	0	89	19:30	6	6	0	0	12			
07:45	15	58	76	342	91	19:45	2	27	5	29	7			
08:00	9	80	0	0	89	20:00	3	6	0	0	9			
08:15	16	35	0	0	51	20:15	11	3	0	0	14			
08:30	18	19	0	0	37	20:30	6	3	0	0	9			
08:45	14	57	10	144	24	20:45	5	25	5	17	10			
09:00	5	11	0	0	16	21:00	10	3	0	0	13			
09:15	6	15	0	0	21	21:15	3	4	0	0	7			
09:30	8	6	0	0	14	21:30	1	2	0	0	3			
09:45	2	21	7	39	9	21:45	4	18	1	10	5			
10:00	9	7	0	0	16	22:00	2	2	0	0	4			
10:15	9	17	0	0	26	22:15	3	0	0	0	3			
10:30	10	7	0	0	17	22:30	4	2	0	0	6			
10:45	5	33	9	40	14	22:45	2	11	0	4	2			
11:00	7	7	0	0	14	23:00	0	1	0	0	1			
11:15	2	10	0	0	12	23:15	1	0	0	0	1			
11:30	15	13	0	0	28	23:30	1	0	0	0	1			
11:45	12	36	10	40	22	23:45	1	3	0	1	1			
TOTALS	230	708			938	TOTALS	574	404			978			
SPLIT %	24.5%	75.5%			49.0%	SPLIT %	58.7%	41.3%			51.0%			

DAILY TOTALS					NB	SB	EBWB					Total
					804	1,112						0
AM Peak Hour	07:00	07:00			07:00	PM Peak Hour	13:30	17:30			13:30	
AM Pk Volume	58	342			400	PM Pk Volume	110	57			161	
Pk Hr Factor	0.763	0.891			0.870	Pk Hr Factor	0.724	0.950			0.805	
7 - 9 Volume	115	486	0	0	601	4 - 6 Volume	137	100	0	0	237	
7 - 9 Peak Hour	07:00	07:00			07:00	4 - 6 Peak Hour	17:00	16:15			17:00	
7 - 9 Pk Volume	58	342	0	0	400	4 - 6 Pk Volume	71	53	0	0	122	
Pk Hr Factor	0.763	0.891	0.000	0.000	0.870	Pk Hr Factor	0.710	0.779	0.000	0.000	0.782	

SPEED

Summit Dr E/O Mary Ln

Day: Thursday

Date: 4/11/2019

City: Escondido

Project #: CA19_4179_002e

East Bound

Time	< 15	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 +	Total
00:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
02:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
05:00	0	0	3	0	0	0	0	0	0	0	0	0	0	3
06:00	1	1	7	0	1	0	0	0	0	0	0	0	0	10
07:00	1	13	6	4	0	0	0	0	0	0	0	0	0	24
08:00	0	11	11	1	0	0	0	0	0	0	0	0	0	23
09:00	0	5	5	2	0	0	0	0	0	0	0	0	0	12
10:00	0	11	5	2	0	0	0	0	0	0	0	0	0	18
11:00	0	9	9	2	0	0	0	0	0	0	0	0	0	20
12:00 PM	2	9	11	3	0	0	0	0	0	0	0	0	0	25
13:00	1	12	10	4	0	0	0	0	0	0	0	0	0	27
14:00	2	18	7	0	0	0	0	0	0	0	0	0	0	27
15:00	2	22	6	3	1	0	0	0	0	0	0	0	0	34
16:00	2	13	9	5	1	0	0	0	0	0	0	0	0	30
17:00	1	15	11	0	0	0	0	0	0	0	0	0	0	27
18:00	0	27	11	3	0	0	0	0	0	0	0	0	0	41
19:00	2	13	8	1	0	0	0	0	0	0	0	0	0	24
20:00	0	11	4	2	0	0	0	0	0	0	0	0	0	17
21:00	2	6	2	0	0	0	0	0	0	0	0	0	0	10
22:00	0	5	2	0	0	0	0	0	0	0	0	0	0	7
23:00	0	3	2	0	0	0	0	0	0	0	0	0	0	5
Totals	16	207	129	32	3									387
% of Totals	4%	53%	33%	8%	1%									100%

AM Volumes	2	53	46	11	1	0	0	0	0	0	0	0	0	113
% AM	1%	14%	12%	3%	0%									29%
AM Peak Hour	06:00	07:00	08:00	07:00	06:00									07:00
Volume	1	13	11	4	1									24
PM Volumes	14	154	83	21	2	0	0	0	0	0	0	0	0	274
% PM	4%	40%	21%	5%	1%									71%
PM Peak Hour	12:00	18:00	12:00	16:00	15:00									18:00
Volume	2	27	11	5	1									41
Directional Peak Periods		AM 7-9		NOON 12-2		PM 4-6		Off Peak Volumes						
All Speeds		Volume	%	Volume	%	Volume	%	Volume	%					
		47	12%	52	13%	57	15%	231	60%					

Street Name	Direction	Percentiles					
		15th	50th	Average	85th	95th	ADT
Summit Dr	East Bound	16	19	20	24	27	387
Summit Dr	West Bound	19	23	23	27	30	387

SPEED

Summit Dr E/O Mary Ln

Day: Thursday

Date: 4/11/2019

City: Escondido

Project #: CA19_4179_002w

West Bound

Time	< 15	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 +	Total
00:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
03:00	0	0	1	0	0	0	0	0	0	0	0	0	0	1
04:00	0	0	1	1	1	0	0	0	0	0	0	0	0	3
05:00	0	3	5	2	0	0	0	0	0	0	0	0	0	10
06:00	0	3	19	5	0	0	0	0	0	0	0	0	0	27
07:00	0	2	17	9	2	0	0	0	0	0	0	0	0	30
08:00	0	0	7	10	1	0	0	0	0	0	0	0	0	18
09:00	0	6	16	10	2	0	0	0	0	0	0	0	0	34
10:00	0	3	17	2	0	0	0	0	0	0	0	0	0	22
11:00	0	4	20	5	1	0	0	0	0	0	0	0	0	30
12:00 PM	0	10	12	7	1	0	0	0	0	0	0	0	0	30
13:00	0	8	15	3	0	0	0	0	0	0	0	0	0	26
14:00	0	2	14	5	0	0	0	0	0	0	0	0	0	21
15:00	0	8	19	7	2	0	0	0	0	0	0	0	0	36
16:00	1	8	10	3	0	0	0	0	0	0	0	0	0	22
17:00	0	4	12	7	1	0	0	0	0	0	0	0	0	24
18:00	0	3	6	0	0	0	0	0	0	0	0	0	0	9
19:00	0	3	6	4	0	0	0	0	0	0	0	0	0	13
20:00	0	4	10	1	0	0	0	0	0	0	0	0	0	15
21:00	0	1	6	2	0	0	0	0	0	0	0	0	0	9
22:00	0	0	3	0	1	0	0	0	0	0	0	0	0	4
23:00	0	2	0	0	0	0	0	0	0	0	0	0	0	2
Totals	1	75	216	83	12									387
% of Totals	0%	19%	56%	21%	3%									100%

AM Volumes	0	22	103	44	7	0	0	0	0	0	0	0	0	176
% AM		6%	27%	11%	2%									45%
AM Peak Hour		09:00	11:00	08:00	07:00									09:00
Volume		6	20	10	2									34
PM Volumes	1	53	113	39	5	0	0	0	0	0	0	0	0	211
% PM	0%	14%	29%	10%	1%									55%
PM Peak Hour	16:00	12:00	15:00	12:00	15:00									15:00
Volume	1	10	19	7	2									36
Directional Peak Periods		AM 7-9				NOON 12-2				PM 4-6				Off Peak Volumes
All Speeds		Volume				Volume				Volume				Volume
		48 ↔ 12%				56 ↔ 14%				46 ↔ 12%				237 ↔ 61%

Street Name	Direction	Percentiles				
		15th	50th	Average	85th	95th
Summit Dr	East Bound	16	10	20	24	27

SPEED

Summit Dr E/O Mary Ln

Day: Thursday

Date: 4/11/2019

City: Escondido

Project #: CA19_4179_002

Summary

Time	< 15	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 +	Total
00:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
02:00	0	2	0	0	0	0	0	0	0	0	0	0	0	2
03:00	0	0	1	0	0	0	0	0	0	0	0	0	0	1
04:00	0	1	1	1	1	0	0	0	0	0	0	0	0	4
05:00	0	3	8	2	0	0	0	0	0	0	0	0	0	13
06:00	1	4	26	5	1	0	0	0	0	0	0	0	0	37
07:00	1	15	23	13	2	0	0	0	0	0	0	0	0	54
08:00	0	11	18	11	1	0	0	0	0	0	0	0	0	41
09:00	0	11	21	12	2	0	0	0	0	0	0	0	0	46
10:00	0	14	22	4	0	0	0	0	0	0	0	0	0	40
11:00	0	13	29	7	1	0	0	0	0	0	0	0	0	50
12:00 PM	2	19	23	10	1	0	0	0	0	0	0	0	0	55
13:00	1	20	25	7	0	0	0	0	0	0	0	0	0	53
14:00	2	20	21	5	0	0	0	0	0	0	0	0	0	48
15:00	2	30	25	10	3	0	0	0	0	0	0	0	0	70
16:00	3	21	19	8	1	0	0	0	0	0	0	0	0	52
17:00	1	19	23	7	1	0	0	0	0	0	0	0	0	51
18:00	0	30	17	3	0	0	0	0	0	0	0	0	0	50
19:00	2	16	14	5	0	0	0	0	0	0	0	0	0	37
20:00	0	15	14	3	0	0	0	0	0	0	0	0	0	32
21:00	2	7	8	2	0	0	0	0	0	0	0	0	0	19
22:00	0	5	5	0	1	0	0	0	0	0	0	0	0	11
23:00	0	5	2	0	0	0	0	0	0	0	0	0	0	7
Totals	17	282	345	115	15									774
% of Totals	2%	36%	45%	15%	2%									100%

AM Volumes	2	75	149	55	8	0	0	0	0	0	0	0	0	289
% AM	0%	10%	19%	7%	1%									37%
AM Peak Hour	06:00	07:00	11:00	07:00	07:00									07:00
Volume	1	15	29	13	2									54
PM Volumes	15	207	196	60	7	0	0	0	0	0	0	0	0	485
% PM	2%	27%	25%	8%	1%									63%
PM Peak Hour	16:00	15:00	13:00	12:00	15:00									15:00
Volume	3	30	25	10	3									70
Directional Peak Periods		AM 7-9				NOON 12-2				PM 4-6				Off Peak Volumes
All Speeds		Volume				Volume				Volume				Volume
		95 ↔ 12%				108 ↔ 14%				103 ↔ 13%				468 ↔ 60%

Street Name	Direction	Percentiles				
		15th	50th	Average	85th	95th
Summit Dr	Summary	17	21	21	26	20
						774

VOLUME

Summit Dr E/O Mary Ln

Day: Thursday
Date: 4/11/2019

City: Escondido
Project #: CA19_4179_002

DAILY TOTALS					NB	SB	EB					WB	Total		
					0	0	387					387	774		
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL			
00:00	0	0	0	0			12:00	0	0	6	14	20			
00:15	0	0	0	0			12:15	0	0	3	6	9			
00:30	0	0	0	0			12:30	0	0	8	4	12			
00:45	0	0	0	0			12:45	0	0	8	25	6	30	14	55
01:00	0	0	0	0			13:00	0	0	9	4	13			
01:15	0	0	0	0			13:15	0	0	2	6	8			
01:30	0	0	0	0			13:30	0	0	7	7	14			
01:45	0	0	1	1	0	1	13:45	0	0	9	27	9	26	18	53
02:00	0	0	1	0	1		14:00	0	0	7	7	14			
02:15	0	0	0	0			14:15	0	0	5	2	7			
02:30	0	0	0	0			14:30	0	0	13	4	17			
02:45	0	0	0	1	1	1	14:45	0	0	2	27	8	21	10	48
03:00	0	0	0	0			15:00	0	0	8	8	16			
03:15	0	0	0	0			15:15	0	0	10	7	17			
03:30	0	0	0	1	1		15:30	0	0	8	9	17			
03:45	0	0	0	0	1	1	15:45	0	0	8	34	12	36	20	70
04:00	0	0	0	0			16:00	0	0	6	6	12			
04:15	0	0	1	1	2		16:15	0	0	6	5	11			
04:30	0	0	0	2	2		16:30	0	0	6	4	10			
04:45	0	0	0	1	0	3	16:45	0	0	12	30	7	22	19	52
05:00	0	0	2	2	4		17:00	0	0	5	3	8			
05:15	0	0	1	2	3		17:15	0	0	5	5	10			
05:30	0	0	0	1	1		17:30	0	0	7	5	12			
05:45	0	0	0	3	5	10	17:45	0	0	10	27	11	24	21	51
06:00	0	0	1	7	8		18:00	0	0	9	2	11			
06:15	0	0	2	2	4		18:15	0	0	8	2	10			
06:30	0	0	4	12	16		18:30	0	0	10	4	14			
06:45	0	0	3	10	6	27	18:45	0	0	14	41	1	9	15	50
07:00	0	0	6	8	14		19:00	0	0	9	2	11			
07:15	0	0	5	10	15		19:15	0	0	5	2	7			
07:30	0	0	6	5	11		19:30	0	0	5	5	10			
07:45	0	0	7	24	7	30	19:45	0	0	5	24	4	13	9	37
08:00	0	0	12	4	16		20:00	0	0	5	1	6			
08:15	0	0	7	8	15		20:15	0	0	5	4	9			
08:30	0	0	2	4	6		20:30	0	0	3	2	5			
08:45	0	0	2	23	2	18	20:45	0	0	4	17	8	15	12	32
09:00	0	0	3	8	11		21:00	0	0	4	0	4			
09:15	0	0	2	7	9		21:15	0	0	1	4	5			
09:30	0	0	2	12	14		21:30	0	0	2	1	3			
09:45	0	0	5	12	7	34	21:45	0	0	3	10	4	9	7	19
10:00	0	0	4	6	10		22:00	0	0	1	1	2			
10:15	0	0	7	8	15		22:15	0	0	5	1	6			
10:30	0	0	1	3	4		22:30	0	0	1	2	3			
10:45	0	0	6	18	5	22	22:45	0	0	0	7	0	4	11	
11:00	0	0	3	11	14		23:00	0	0	2	1	3			
11:15	0	0	6	2	8		23:15	0	0	0	0				
11:30	0	0	4	7	11		23:30	0	0	1	1	2			
11:45	0	0	7	20	10	30	23:45	0	0	2	5	0	2	2	7
TOTALS	113				176	289	TOTALS	274				211	485		
SPLIT %	39.1%				60.9%	37.3%	SPLIT %	56.5%				43.5%	62.7%		

DAILY TOTALS					NB	SB						EB	WB	Total	
					0	0						387	387	774	
AM Peak Hour	07:30				11:30	11:45	PM Peak Hour	18:00				15:00	15:00		
AM Pk Volume	32				37	58	PM Pk Volume	41				36	70		
Pk Hr Factor	0.667				0.661	0.725	Pk Hr Factor	0.732				0.750	0.875		
7 - 9 Volume	0	0	47	48	95	95	4 - 6 Volume	0	0	57	46	103	103		
7 - 9 Peak Hour	07:30				07:00	07:15	4 - 6 Peak Hour	16:00				17:00	16:00		
7 - 9 Pk Volume	0	0	32	30	56	56	4 - 6 Pk Volume	0	0	30	24	52	52		
Pk Hr Factor	0.000	0.000	0.667	0.750	0.875	0.875	Pk Hr Factor	0.000	0.000	0.625	0.545	0.684	0.684		

SPEED

Summit Dr W/O 2658 Summit Dr Dwy

Day: Thursday

Date: 4/11/2019

City: Escondido

Project #: CA19_4179_003e

East Bound

Time	< 15	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 +	Total
00:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00	0	0	0	1	0	0	0	0	0	0	0	0	0	1
02:00	0	0	0	0	1	0	0	0	0	0	0	0	0	1
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	0	0	1	0	0	0	0	0	0	0	0	1
05:00	0	0	3	0	0	0	0	0	0	0	0	0	0	3
06:00	0	0	1	2	3	1	1	0	0	0	0	0	0	8
07:00	0	1	6	12	6	1	0	0	0	0	0	0	0	26
08:00	0	1	7	10	6	0	0	0	0	0	0	0	0	24
09:00	0	0	4	6	2	0	0	0	0	0	0	0	0	12
10:00	0	1	6	7	5	0	0	0	0	0	0	0	0	19
11:00	2	0	6	8	4	0	0	0	0	0	0	0	0	20
12:00 PM	0	2	4	6	12	0	0	0	0	0	0	0	0	24
13:00	0	3	1	12	9	2	0	0	0	0	0	0	0	27
14:00	2	1	11	11	2	1	0	0	0	0	0	0	0	28
15:00	2	0	8	15	5	0	2	0	0	0	0	0	0	32
16:00	0	0	10	7	10	3	0	0	0	0	0	0	0	30
17:00	1	1	10	7	7	2	1	0	0	0	0	0	0	29
18:00	0	0	9	23	5	2	0	0	0	0	0	0	0	39
19:00	0	2	6	8	7	0	0	0	0	0	0	0	0	23
20:00	0	1	4	10	1	2	0	0	0	0	0	0	0	18
21:00	0	0	4	7	0	0	0	0	0	0	0	0	0	11
22:00	0	0	0	5	2	0	0	0	0	0	0	0	0	7
23:00	0	0	1	2	3	0	0	0	0	0	0	0	0	6
Totals	7	13	101	159	91	14	4							389
% of Totals	2%	3%	26%	41%	23%	4%	1%							100%

AM Volumes	2	3	33	46	28	2	1	0	0	0	0	0	0	115
% AM	1%	1%	8%	12%	7%	1%	0%							30%
AM Peak Hour	11:00	07:00	08:00	07:00	07:00	06:00	06:00							07:00
Volume	2	1	7	12	6	1	1							26
PM Volumes	5	10	68	113	63	12	3	0	0	0	0	0	0	274
% PM	1%	3%	17%	29%	16%	3%	1%							70%
PM Peak Hour	14:00	13:00	14:00	18:00	12:00	16:00	15:00							18:00
Volume	2	3	11	23	12	3	2							39
Directional Peak Periods			AM 7-9			NOON 12-2			PM 4-6			Off Peak Volumes		
All Speeds			Volume		%	Volume		%	Volume		%	Volume		%
			50	↔	13%	51	↔	13%	59	↔	15%	229	↔	59%

Street Name	Direction	Percentiles					
		15th	50th	Average	85th	95th	ADT
Summit Dr	East Bound	22	27	27	33	35	389
Summit Dr	West Bound	22	27	27	32	35	381

SPEED

Summit Dr W/O 2658 Summit Dr Dwy

Day: Thursday

Date: 4/11/2019

City: Escondido

Project #: CA19_4179_003w

West Bound

Time	< 15	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 +	Total
00:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	0	0	1	0	0	0	0	0	0	0	0	0	1
03:00	0	0	0	1	0	0	0	0	0	0	0	0	0	1
04:00	0	0	0	2	0	1	0	0	0	0	0	0	0	3
05:00	0	0	3	4	2	0	1	0	0	0	0	0	0	10
06:00	0	0	4	14	8	0	0	0	0	0	0	0	0	26
07:00	0	0	3	14	11	1	0	0	0	0	0	0	0	29
08:00	1	1	2	10	5	2	0	0	0	0	0	0	0	21
09:00	0	0	8	14	10	1	0	0	0	0	0	0	0	33
10:00	1	0	8	9	3	1	0	0	0	0	0	0	0	22
11:00	0	1	6	15	6	0	1	0	0	0	0	0	0	29
12:00 PM	1	4	7	13	4	2	0	0	0	0	0	0	0	31
13:00	0	2	6	13	3	0	0	0	0	0	0	0	0	24
14:00	0	1	7	12	0	1	0	0	0	0	0	0	0	21
15:00	1	3	11	11	8	0	0	0	0	0	0	0	0	34
16:00	0	1	6	11	4	0	0	0	0	0	0	0	0	22
17:00	0	2	5	8	8	0	0	0	0	0	0	0	0	23
18:00	0	0	1	6	2	0	0	0	0	0	0	0	0	9
19:00	0	1	3	4	3	1	0	0	0	0	0	0	0	12
20:00	0	0	7	7	1	0	0	0	0	0	0	0	0	15
21:00	0	0	3	4	1	1	0	0	0	0	0	0	0	9
22:00	0	0	1	1	1	1	0	0	0	0	0	0	0	4
23:00	0	0	2	0	0	0	0	0	0	0	0	0	0	2
Totals	4	16	93	174	80	12	2							381
% of Totals	1%	4%	24%	46%	21%	3%	1%							100%

AM Volumes	2	2	34	84	45	6	2	0	0	0	0	0	0	175
% AM	1%	1%	9%	22%	12%	2%	1%							46%
AM Peak Hour	08:00	08:00	09:00	11:00	07:00	08:00	05:00							09:00
Volume	1	1	8	15	11	2	1							33
PM Volumes	2	14	59	90	35	6	0	0	0	0	0	0	0	206
% PM	1%	4%	15%	24%	9%	2%								54%
PM Peak Hour	12:00	12:00	15:00	12:00	15:00	12:00								15:00
Volume	1	4	11	13	8	2								34
Directional Peak Periods		AM 7-9		NOON 12-2		PM 4-6		Off Peak Volumes						
All Speeds		Volume	%	Volume	%	Volume	%	Volume	%					
		50	13%	55	14%	45	12%	231	61%					

Street Name	Direction	Percentiles					
		15th	50th	Average	85th	95th	ADT
Summit Dr	East Bound	22	27	27	22	25	280

SPEED

Summit Dr W/O 2658 Summit Dr Dwy

Day: Thursday

Date: 4/11/2019

City: Escondido

Project #: CA19_4179_003

Summary

Time	< 15	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 +	Total
00:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00	0	0	0	1	0	0	0	0	0	0	0	0	0	1
02:00	0	0	0	1	1	0	0	0	0	0	0	0	0	2
03:00	0	0	0	1	0	0	0	0	0	0	0	0	0	1
04:00	0	0	0	2	1	1	0	0	0	0	0	0	0	4
05:00	0	0	6	4	2	0	1	0	0	0	0	0	0	13
06:00	0	0	5	16	11	1	1	0	0	0	0	0	0	34
07:00	0	1	9	26	17	2	0	0	0	0	0	0	0	55
08:00	1	2	9	20	11	2	0	0	0	0	0	0	0	45
09:00	0	0	12	20	12	1	0	0	0	0	0	0	0	45
10:00	1	1	14	16	8	1	0	0	0	0	0	0	0	41
11:00	2	1	12	23	10	0	1	0	0	0	0	0	0	49
12:00 PM	1	6	11	19	16	2	0	0	0	0	0	0	0	55
13:00	0	5	7	25	12	2	0	0	0	0	0	0	0	51
14:00	2	2	18	23	2	2	0	0	0	0	0	0	0	49
15:00	3	3	19	26	13	0	2	0	0	0	0	0	0	66
16:00	0	1	16	18	14	3	0	0	0	0	0	0	0	52
17:00	1	3	15	15	15	2	1	0	0	0	0	0	0	52
18:00	0	0	10	29	7	2	0	0	0	0	0	0	0	48
19:00	0	3	9	12	10	1	0	0	0	0	0	0	0	35
20:00	0	1	11	17	2	2	0	0	0	0	0	0	0	33
21:00	0	0	7	11	1	1	0	0	0	0	0	0	0	20
22:00	0	0	1	6	3	1	0	0	0	0	0	0	0	11
23:00	0	0	3	2	3	0	0	0	0	0	0	0	0	8
Totals	11	29	194	333	171	26	6							770
% of Totals	1%	4%	25%	43%	22%	3%	1%							100%

AM Volumes	4	5	67	130	73	8	3	0	0	0	0	0	0	290
% AM	1%	1%	9%	17%	9%	1%	0%							38%
AM Peak Hour	11:00	08:00	10:00	07:00	07:00	07:00	05:00							07:00
Volume	2	2	14	26	17	2	1							55
PM Volumes	7	24	127	203	98	18	3	0	0	0	0	0	0	480
% PM	1%	3%	16%	26%	13%	2%	0%							62%
PM Peak Hour	15:00	12:00	15:00	18:00	12:00	16:00	15:00							15:00
Volume	3	6	19	29	16	3	2							66
Directional Peak Periods			AM 7-9			NOON 12-2			PM 4-6			Off Peak Volumes		
All Speeds			Volume	%	Volume	%	Volume	%	Volume	%	Volume	%		
			100	↔ 13%	106	↔ 14%	104	↔ 14%	460	↔ 60%				

Street Name	Direction	Percentiles					
		15th	50th	Average	85th	95th	ADT
Summit Dr	Summary	22	27	27	22	25	770

VOLUME

Summit Dr W/O 2658 Summit Dr Dwy

Day: Thursday
Date: 4/11/2019

City: Escondido
Project #: CA19_4179_003

DAILY TOTALS					NB	SB	EB					WB	Total
					0	0	389					381	770
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL	
00:00	0	0	0	0			12:00	0	0	5	14	19	
00:15	0	0	0	0			12:15	0	0	3	7	10	
00:30	0	0	0	0			12:30	0	0	8	4	12	
00:45	0	0	0	0			12:45	0	0	8	24	6	31
01:00	0	0	0	0			13:00	0	0	10	4	14	
01:15	0	0	0	0			13:15	0	0	1	5	6	
01:30	0	0	0	0			13:30	0	0	7	7	14	
01:45	0	0	1	1	0	1	13:45	0	0	9	27	8	24
02:00	0	0	1	0	1		14:00	0	0	8	7	15	
02:15	0	0	0	0			14:15	0	0	5	2	7	
02:30	0	0	0	0			14:30	0	0	13	4	17	
02:45	0	0	0	1	1	1	14:45	0	0	2	28	8	21
03:00	0	0	0	0			15:00	0	0	7	8	15	
03:15	0	0	0	0			15:15	0	0	9	6	15	
03:30	0	0	0	1	1		15:30	0	0	8	8	16	
03:45	0	0	0	0	1	1	15:45	0	0	8	32	12	34
04:00	0	0	0	0			16:00	0	0	6	5	11	
04:15	0	0	1	1	2		16:15	0	0	6	6	12	
04:30	0	0	0	2	2		16:30	0	0	6	4	10	
04:45	0	0	0	1	0	3	16:45	0	0	12	30	7	22
05:00	0	0	2	2	4		17:00	0	0	6	3	9	
05:15	0	0	1	2	3		17:15	0	0	6	4	10	
05:30	0	0	0	1	1		17:30	0	0	7	5	12	
05:45	0	0	0	3	5	10	17:45	0	0	10	29	11	23
06:00	0	0	1	7	8		18:00	0	0	9	2	11	
06:15	0	0	2	2	4		18:15	0	0	8	2	10	
06:30	0	0	3	11	14		18:30	0	0	8	4	12	
06:45	0	0	2	8	6	26	18:45	0	0	14	39	1	9
07:00	0	0	6	8	14		19:00	0	0	9	2	11	
07:15	0	0	6	9	15		19:15	0	0	5	2	7	
07:30	0	0	7	5	12		19:30	0	0	4	4	8	
07:45	0	0	7	26	7	29	19:45	0	0	5	23	4	12
08:00	0	0	12	4	16		20:00	0	0	5	1	6	
08:15	0	0	7	10	17		20:15	0	0	5	4	9	
08:30	0	0	2	4	6		20:30	0	0	3	2	5	
08:45	0	0	3	24	3	21	20:45	0	0	5	18	8	15
09:00	0	0	3	8	11		21:00	0	0	5	0	5	
09:15	0	0	2	7	9		21:15	0	0	1	4	5	
09:30	0	0	2	11	13		21:30	0	0	2	1	3	
09:45	0	0	5	12	7	33	21:45	0	0	3	11	4	9
10:00	0	0	4	6	10		22:00	0	0	1	1	2	
10:15	0	0	7	8	15		22:15	0	0	5	1	6	
10:30	0	0	1	3	4		22:30	0	0	1	2	3	
10:45	0	0	7	19	5	22	22:45	0	0	0	7	0	4
11:00	0	0	2	10	12		23:00	0	0	3	1	4	
11:15	0	0	6	2	8		23:15	0	0	0	0	1	
11:30	0	0	5	7	12		23:30	0	0	1	0	3	
11:45	0	0	7	20	10	29	23:45	0	0	2	6	1	2
TOTALS	115				175	290	TOTALS	274				206	480
SPLIT %	39.7%				60.3%	37.7%	SPLIT %	57.1%				42.9%	62.3%

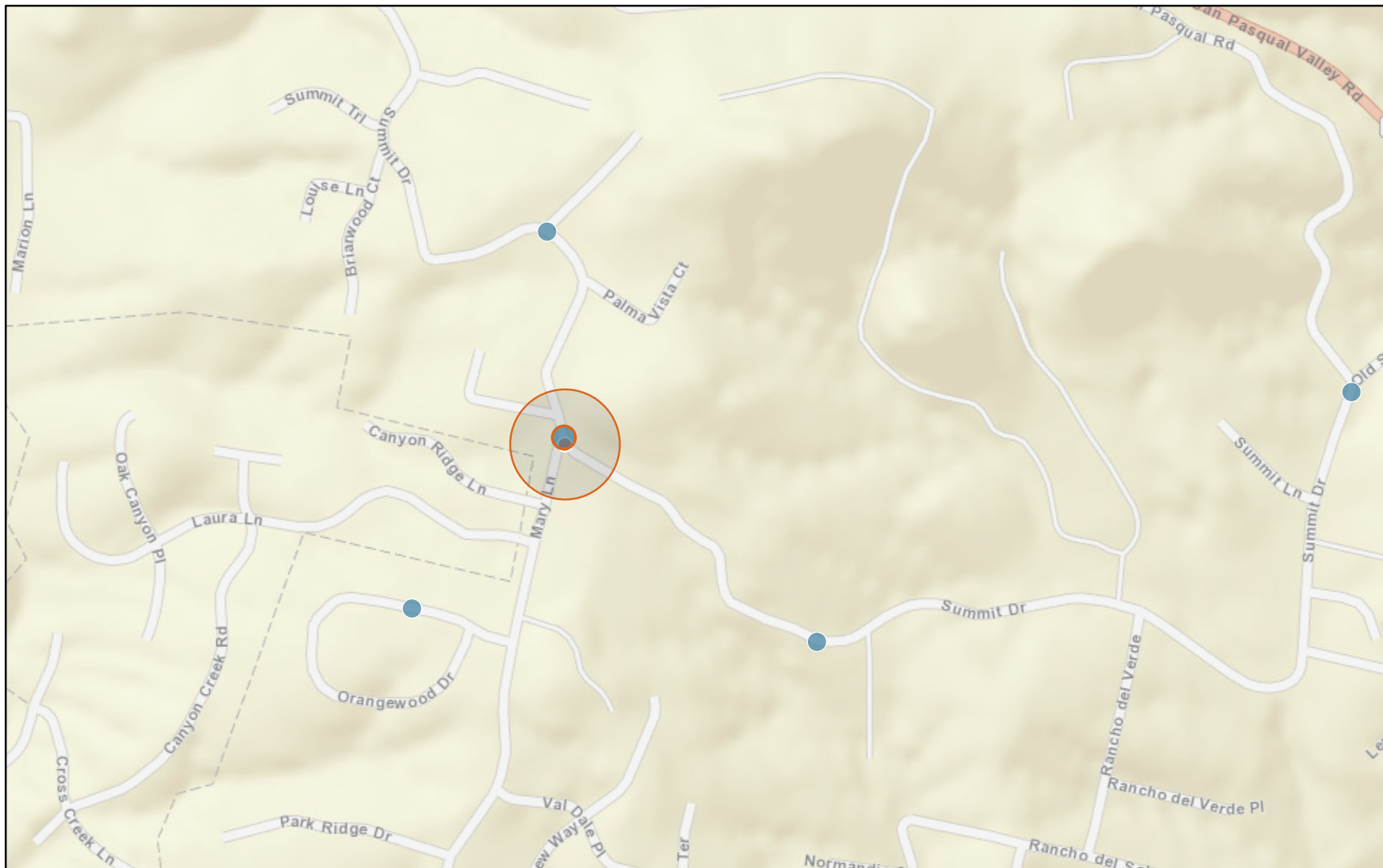
DAILY TOTALS					NB	SB						EB	WB	Total	
					0	0						389	381	770	
AM Peak Hour	07:30				11:30	07:30	PM Peak Hour	18:00				15:00	15:00		
AM Pk Volume	33				38	59	PM Pk Volume	39				34	66		
Pk Hr Factor	0.688				0.679	0.868	Pk Hr Factor	0.696				0.708	0.825		
7 - 9 Volume	0	0	50	50	100	4 - 6 Volume	0	0	59	45	104				
7 - 9 Peak Hour	07:30				07:00	07:30	4 - 6 Peak Hour	16:45				17:00	16:00		
7 - 9 Pk Volume	0	0	33	29	59	4 - 6 Pk Volume	0	0	31	23	52				
Pk Hr Factor	0.000	0.000	0.688	0.806	0.868	Pk Hr Factor	0.000	0.000	0.646	0.523	0.684				

Mr. Oscar Uranga
May 24, 2019
Page 7

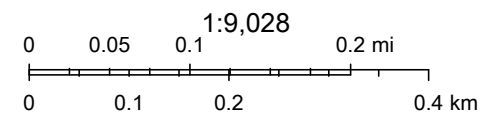


Attachment C: Accident Data

SWITRS GIS Map: San Diego, All 01/01/2012 - 12/31/2017



September 12, 2018



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), Made by: SWITRS GIS Map at TIMS (<https://tims.berkeley.edu>), SafeTREC, UC Berkeley Copyright © 2018 UC Regents; all rights reserved.

Collision Details for: Case ID 6456144

Collision Information

County	San Diego
City	Unincorporated
Date & Time (M/D/Y HH:MM)	04/15/2014 00:30
Location (Intersection)	Mary Ln & Summit Dr
Dist. & Dir. from Intersection	0.00 ft East
State Highway	No
Latitude & Longitude	33.09608009, -117.04268006

Type of Collision	E - Hit Object	Motor Vehicle Involved With	I - Fixed Object
Collision Severity	4 - Injury (Complaint of Pain)	Pedestrian Accident	No
PCF Violation Category	12 - Traffic Signals and Signs	Bicycle Accident	No
Weather	A - Clear	Motorcycle Accident	No
Alcohol Involved	No	Truck Accident	No

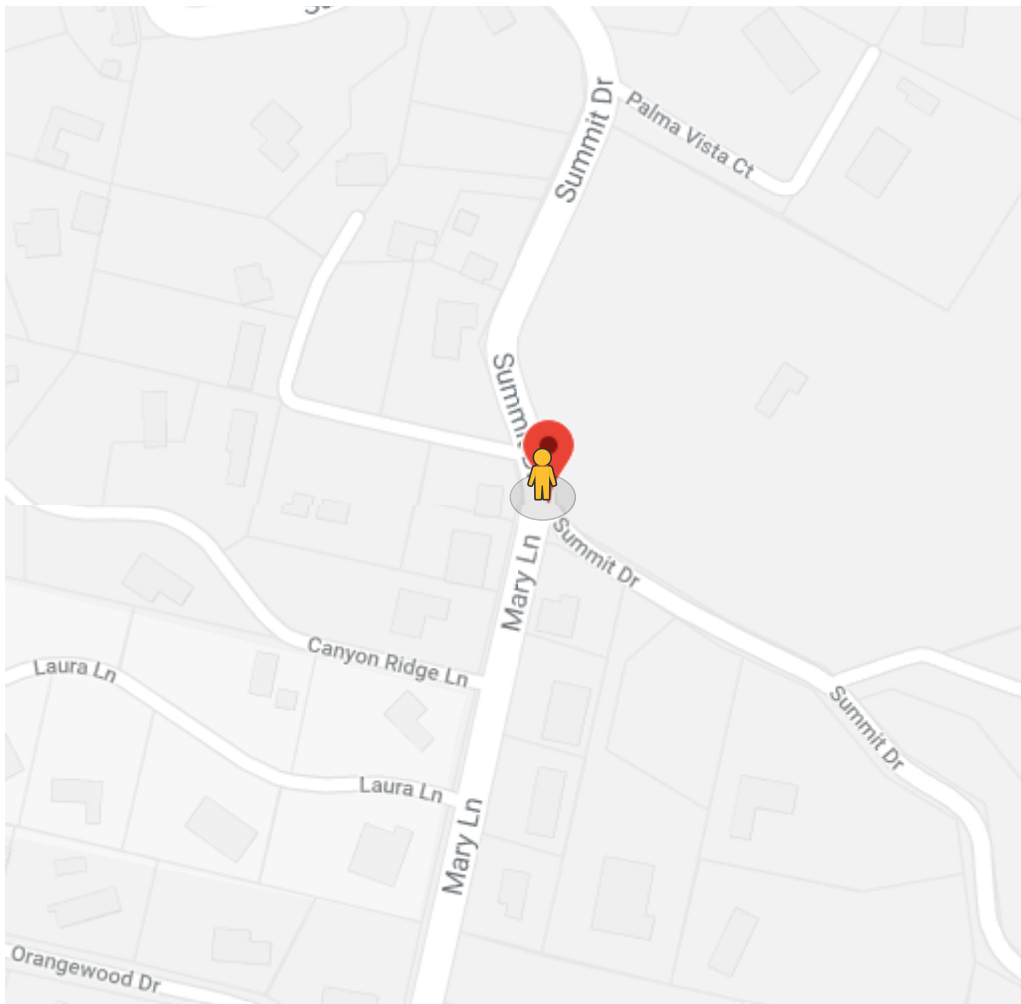
Parties: 1

Party Number	Party Type	Statewide Vehicle Type	At Fault	Party Direction	Movement Preceding Collision
1	1 - Driver (including Hit and Run)	A - Passenger Car/Station Wagon	Yes	North	B - Proceeding Straight

Victims: 1

Party Number	Victim Role	Victim Gender	Victim Age	Victim Degree of Injury
1	2 - Passenger	F - Female	20	4 - Complaint of Pain

Map View



Google

Map data ©2018 Google

Street View

2650 Summit Dr
Escondido, California
[View on Google Maps](#)



Mr. Oscar Uranga
May 24, 2019
Page 8



Attachment D: Aerial Data Map

Summit Drive Roadway Classification:
Community Collector (No Median)

County of San Diego Public Road Standards
for a Community Collector:

- # of Lanes / Width – 2 / 12'
- Road Surfacing Width – 40'
- Right-of-Way Width – 60'
- Minimum Curve Radius – 700'
- Minimum Design Speed (MPD) - 45

Southbound Advisory
Sign: Winding Road
Next 2 Miles

Northbound & Southbound Advisory
Signs: Horizontal Alignment Arrows

Westbound
Advisory Sign:
15 MPH

Northbound Advisory Sign:
Horizontal Alignment Arrow

Southbound Advisory
Sign: 15 MPH

Southbound Advisory Signs: Dual
Horizontal Alignment Arrows

1,916 ADT
Prevailing Speed: 30 MPH

Northbound
Advisory Sign:
20 MPH

One collision at this intersection
over the past five years (2014)

774 ADT
Prevailing Speed: 26 MPH

Northbound
Advisory Sign:
Curve Ahead; Mary
Lane

770 ADT
Prevailing Speed: 33 MPH



Mr. Oscar Uranga
May 24, 2019
Page 9



Attachment E: Roadway Classification Tables

TABLE 1
AVERAGE DAILY VEHICLE TRIPS*

MOBILITY ELEMENT ROADS		LEVELS OF SERVICE				
Road Classification	# of Travel Lanes	A	B	C	D	E
Expressway (6.1)	6	<36,000	<54,000	<70,000	<86,000	<108,000
Prime Arterial (6.2)	6	<22,200	<37,000	<44,600	<50,000	<57,000
Major Road	w/ Raised Median (4.1A)	4	<14,800	<24,700	<29,600	<33,400
	w/ Intermittent Turn Lanes (4.1B)	4	<13,700	<22,800	<27,400	<30,800
Boulevard	w/ Raised Median (4.2A)	4	<18,000	<21,000	<24,000	<27,000
	w/ Intermittent Turn Lanes (4.2B)	4	<16,800	<19,600	<22,500	<25,000
Community Collector	w/ Raised Median (2.1A)	2	<10,000	<11,700	<13,400	<15,000
	w/ Continuous Left Turn Lane (2.1B)	2	<3,000	<6,000	<9,500	<13,500
	w/ Intermittent Turn Lane (2.1C)	2	<3,000	<6,000	<9,500	<13,500
	w/ Passing Lane (2.1D)	2	<3,000	<6,000	<9,500	<13,500
	No Median (2.1E)	2	<1,900	<4,100	<7,100	<10,900
Light Collector	w/ Raised Median (2.2A)	2	<3,000	<6,000	<9,500	<13,500
	w/ Continuous Left Turn Lane (2.2B)	2	<3,000	<6,000	<9,500	<13,500
	w/ Intermittent Turn Lane (2.2C)	2	<3,000	<6,000	<9,500	<13,500
	w/ Passing Lane (2.2D)	2	<3,000	<6,000	<9,500	<13,500
	No Median (2.2E)	2	<1,900	<4,100	<7,100	<10,900
	w/ Reduced Shoulder (2.2F)	2	<5,800	<6,800	<7,800	<8,700
Minor Collector	w/ Raised Median (2.3A)	2	<3,000	<6,000	<7,000	<8,000
	w/ Intermittent Turn Lane (2.3B)	2	<3,000	<6,000	<7,000	<8,000
	No Median (2.3C)	2	<1,900	<4,100	<6,000	<7,000
NON-MOBILITY ELEMENT ROADS**		LEVELS OF SERVICE				
Residential Collector	2	-	-	<4,500	-	-
Rural Residential Collector***	2	-	-	<4,500	-	-
Residential Road	2	-	-	<1,500	-	-
Rural Residential Road***	2	-	-	<1,500	-	-
Residential Cul-de-Sac or Loop Road	2	-	-	<200	-	-

* The values shown are subject to adjustment based on the geometry of the roadway, side frictions, and other relevant factors as determined by the Director, Department of Public Works.

** Levels of service are not applied to residential streets since their primary purpose is to serve abutting lots, not carry through traffic. Levels of service normally apply to roads carrying through traffic between major trip generators and attractors.

*** Rural Residential Collectors and Rural Residential Roads are intended to serve areas with lot sizes of 2 acres or more which do not have a demand for on-street parking. On-street parking is not assured for these cross sections. Additional right-of-way is needed if on-street parking is in paved area.

**** See Tables 2A and 2B for roadway surfacing and right-of-way widths.

TABLE 2A: COUNTY OF SAN DIEGO - PUBLIC ROAD STANDARDS

CLASSIC CIRCULATION ELEMENT ROAD CLASSIFICATIONS

ROAD CLASSIFICATION	# LANES / LANE WIDTH	MEDIAN WIDTH	ROAD SURFACING WIDTH	R.O.W. WIDTH	PAVED SHOULDER (# / WIDTH)	PARKWAY WIDTH	MIN. CURVE RADIUS	MAX. DESIRABLE GRADE	MIN. DESIGN SPEED (MPH)
Expressway (6.1)	6 / 12'	34'	126'	146'	2 / 10'	10'	1,700'	6%	65
Prime Arterial (6.2)	6 / 12'	14'	102'	122'	2 / 8'	10'	1,700'	6%	65
Major Road (4.1A)	4 / 12'	14'	78'	98'	2 / 8'	10'	1,200'	7%	55
Collector	4 / 12'	-	64'	84'	2 / 8'	10'	1,200'	7%	55
Town Collector	2 / 12'	12'	54'	74'	2 / 8'	10'	500'	9%	40
Light Collector	2 / 12'	-	40'	60'	2 / 8'	10'	700'	9%	45
Rural Collector	2 / 12'	-	40'	84'	2 / 8'	22'	500'	12%	40
Rural Light Collector	2 / 12'	-	40'	60'	2 / 8'	10'	500'	12%	40
Rural Mountain	2 / 12'	-	40'	100'	2 / 8'	30'	500'	12%	40
Recreational Parkway	2 / 12'	-	40'	100'	2 / 8'	30'	400'	12%	25

MODERN CIRCULATION ELEMENT ROAD CLASSIFICATIONS

Major Road										
*	With Intermittent Turn Lanes (4.1B)	4 / 12'	-	64' - 78'	84' - 98'	2 / 8'	10'	1,200'	7%	55
Boulevard										
+++	With Raised Median (4.2A)	4 / 12'	14'	78'	106'	2 / 8'	14'	500'	9%	40
+++	With Intermittent Turn Lanes (4.2B)	4 / 12'	-	64' - 78'	92' - 106'	2 / 8'	14'	500'	9%	40
Community Collector										
**	With Raised Median (2.1A)	2 / 12'	14'	54'	74'	2 / 8'	10'	700'	9%	45
**	With Continuous Left Turn Lane (2.1B)	2 / 12'	14'	54'	74'	2 / 8'	10'	700'	9%	45
+++	With Intermittent Turn Lanes (2.1C)	2 / 12'	-	40' - 54'	60' - 74'	2 / 8'	10'	700'	9%	45
+++	With Passing Lane (2.1D)	2 / 12'	-	40'	84'	2 / 8'	10'	700'	9%	45
+	No Median (2.1E)	2 / 12'	-	40'	60'	2 / 8'	10'	700'	9%	45
Light Collector										
**	With Raised Median (2.2A)	2 / 12'	14'	54'	78'	2 / 8'	10'	500'	9%	40
**	With Continuous Left Turn Lane (2.2B)	2 / 12'	14'	54'	78'	2 / 8'	10'	500'	9%	40
+++	With Intermittent Turn Lanes (2.2C)	2 / 12'	-	40' - 54'	64' - 78'	2 / 8'	10'	500'	9%	40
+++	With Passing Lane (2.2D)	2 / 12'	-	40'	88'	2 / 8'	10'	500'	9%	40
**	No Median (2.2E)	2 / 12'	-	40'	64'	2 / 8'	10'	500'	9%	40
+++	With Reduced Shoulder (2.2F)	2 / 12'	-	40'	52'	2 / 2'	10'	500'	9%	40
Minor Collector										
+++	With Raised Median (2.3A)	2 / 12'	14'	54'	82'	2 / 8'	10'	350'	12%	35
+++	With Intermittent Turn Lanes (2.3B)	2 / 12'	-	40' - 54'	68' - 82'	2 / 8'	10'	350'	12%	35
+++	No Median (2.3C)	2 / 12'	-	40'	68'	2 / 8'	10'	350'	12%	35

- NOTES:
- 1 Minimum longitudinal gradient shall be 1.0 percent for all road classificationis shown above.
 - 2 The maximum grade for a permanent cul-de-sac street turning area shall be 6 percent.
 - 3 The maximum grade for a temporary cul-de-sac street turning area shall be that of the classification of the road being constructed.
 - 4 For standards, see County Design Standard Drawing DS-2, DS-3, DS-4, and Section 4.5N of these Standards.
 - 5 Additional pavement and ROW may be required for CE Collectors (4 feet) and Light Collectors (12 feet) in Industrial/Commercial Zones.
 - 6 CE roads needing additional turn lanes will require an additional 12 to 14 feet of pavement and ROW for each lane.
 - 7 The maximum superelevation allowed on CE roads is 6%. Superelevation is not normally required on Non-CE roads.
 - 8 CE roads designated with Bike Lanes will require an additional 10 feet of pavement and ROW. This may be increased to 12' for Collector Roads and above based upon the provisions in Section 7.3 of these standards.
 - 9 The minimum curve radii, shown in the table above, are based on the design speed with 6% superelevation.
 - 10 Interim roads are to be a minimum of 28 feet A.C. within a 40 feet graded roadbed. They may be larger if traffic volumes require more travel lanes.

- LEGEND:
- * Similar to existing Collector Road
 - ** Similar to existing Town Collector
 - +++ Similar to existing Rural Collector
 - + Same as existing Light Collector
 - ++ Similar to existing Rural Light Collector
 - +++ New Classification Standard

TABLE 2B: COUNTY OF SAN DIEGO - PUBLIC ROAD STANDARDS

NON-CIRCULATION ELEMENT ROAD CLASSIFICATIONS

ROAD CLASSIFICATION	# LANES / LANE WIDTH	MEDIAN WIDTH	R.O.W. WIDTH	ROAD SURFACING WIDTH	PAVED SHOULDER (# / WIDTH)	PARKWAY WIDTH	MINIMUM CURVE RADIUS	MAXIMUM DESIRABLE GRADE	MINIMUM DESIGN SPEED (MPH)
Residential Collector	2 / 12'	-	60'	40'	2 / 8'	10'	300'	12%	30
Residential	2 / 12'	-	56'	36'	2 / 6'	10'	200'	15%	30
Residential Cul-de-sac	2 / 12'	-	52'	32'	2 / 4'	10'	200'	15%	30
Residential Loop	2 / 12'	-	52'	32'	2 / 4'	10'	200'	15%	30
Industrial/Commerical Collector	4 / 12'	-	88'	68'	2 / 10'	10'	300'	8%	30
Industrial/Commerical	2 / 16'	-	72'	52'	2 / 10'	10'	200'	8%	30
Industrial/Commercial Cul-de-sac	2 / 16'	-	72'	52'	2 / 10'	10'	200'	8%	30
Frontage	2 / 12'	-	52' min	32' min	1 / 8'	10'	See above	See above	-
Alley	2 / 10'	-	20-30'	20-30'	None	None	50'	12%	n/a
Hillside Residential	See NOTE 4	-	-	-	-	-	-	-	-
Rural Collector *	2 / 12'	-	48'	28'	2 / 2'	10'	300'	12%	30
Rural Residential	2 / 12'	-	48'	28'	2 / 2'	10'	200'	15%	30

- NOTES:
- 1 Minimum longitudinal gradient shall be 1.0 percent for all road classificationis shown above.
 - 2 The maximum grade for a permanent cul-de-sac street turning area shall be 6 percent.
 - 3 The maximum grade for a temporary cul-de-sac street turning area shall be that of the classification of the road being constructed.
 - 4 For standards, see County Design Standard Drawing DS-2, DS-3, DS-4, and Section 4.5N of these Standards.
 - 5 The minimum curve radii, shown in the table above, are based on the design speed with 6% superelevation.
 - 6 Interim roads are to be a minimum of 28 feet A.C. within a 40 feet graded roadbed. They may be larger if traffic volumes require more travel lanes.

LEGEND: * Serves lots > 2 acres in size w/
no demand for on-street parking

Attachment E: Design Exception Report