

**CITY OF WEST HOLLYWOOD**  
**DEPARTMENT OF PUBLIC WORKS**  
**Engineering and Traffic Survey, October 2016**

**Carol Drive between Sunset Boulevard and Phyllis Avenue**

This engineering and traffic survey (E&TS) was prepared for the segment of Carol Drive between Sunset Boulevard and Phyllis Avenue in accordance with California Vehicle Code (CVC) Section 627, and is required under CVC 40802 if speed limits are to be enforced by radar or any other electronic device that measures the speed of moving objects. CVC 40802 requires speed zones to be evaluated on a recurring basis to avoid being a “speed trap”. If the E&TS is more than 5 years old, courts may reject evidence of speeding obtained through radar or other electronic devices. Engineering and traffic surveys may be up to 7 years old if conditions under CVC 40802(c)(1) related to enforcement training and equipment certification have been met.

Carol Drive is designated as a local residential street in the City of West Hollywood General Plan. Carol Drive is a high-density residential street that has an undivided roadway with parking on both sides. The street has angled parking on the west side of the street and parallel parking on the east side.

The posted speed limit for this section of Carol Drive is 25 mph based on an E&TS performed in 2011. Speed data collected on April 4, 2016 revealed the 85th percentile to be 27 mph.

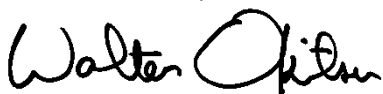
CVC 21400(b) requires the local authority to round speed limits to the nearest five miles per hour of the 85th percentile of the free-flowing traffic. However, the local authority may apply Option 1 within MUTCD Section 2B.13 Paragraph 12a which says “The posted speed may be reduced by 5 mph from the nearest 5-mph increment of the 85th percentile speed, in compliance with CVC Sections 627 and 22358.5.” The cited CVC Section 627 says the E&TS must consider the following:

- Accident Records: One bicycle-related collision was recorded over a two-year period. However, the collision occurred beyond northern limits of this segment. No downward speed zoning is recommended based on accident records.
  
- Highway, traffic, and roadside conditions not readily apparent to the driver: According to CVC 22358.5, “Conditions not readily apparent to the driver” exclude roadway width, curvature, grade, and surface conditions.” No downward speed zoning is recommended based on highway, traffic, and roadside conditions not readily apparent to the driver.

CVC 627 also allows optional consideration of residential density as well as pedestrian and bicycle safety. However, an Option 1 reduction appears to be unnecessary and retaining the existing 25 mph speed limit appears reasonable.

Recommendation

Based on prevailing speeds and without application of an Option 1 reduction, the existing posted speed limit of 25 mph should be retained.



Walter Okitsu, P.E.  
Registered Traffic Engineer, Calif. TE 1406

## APPENDIX D: Spot Speed Studies

# Spot Speed Study

Prepared by: National Data & Surveying Services

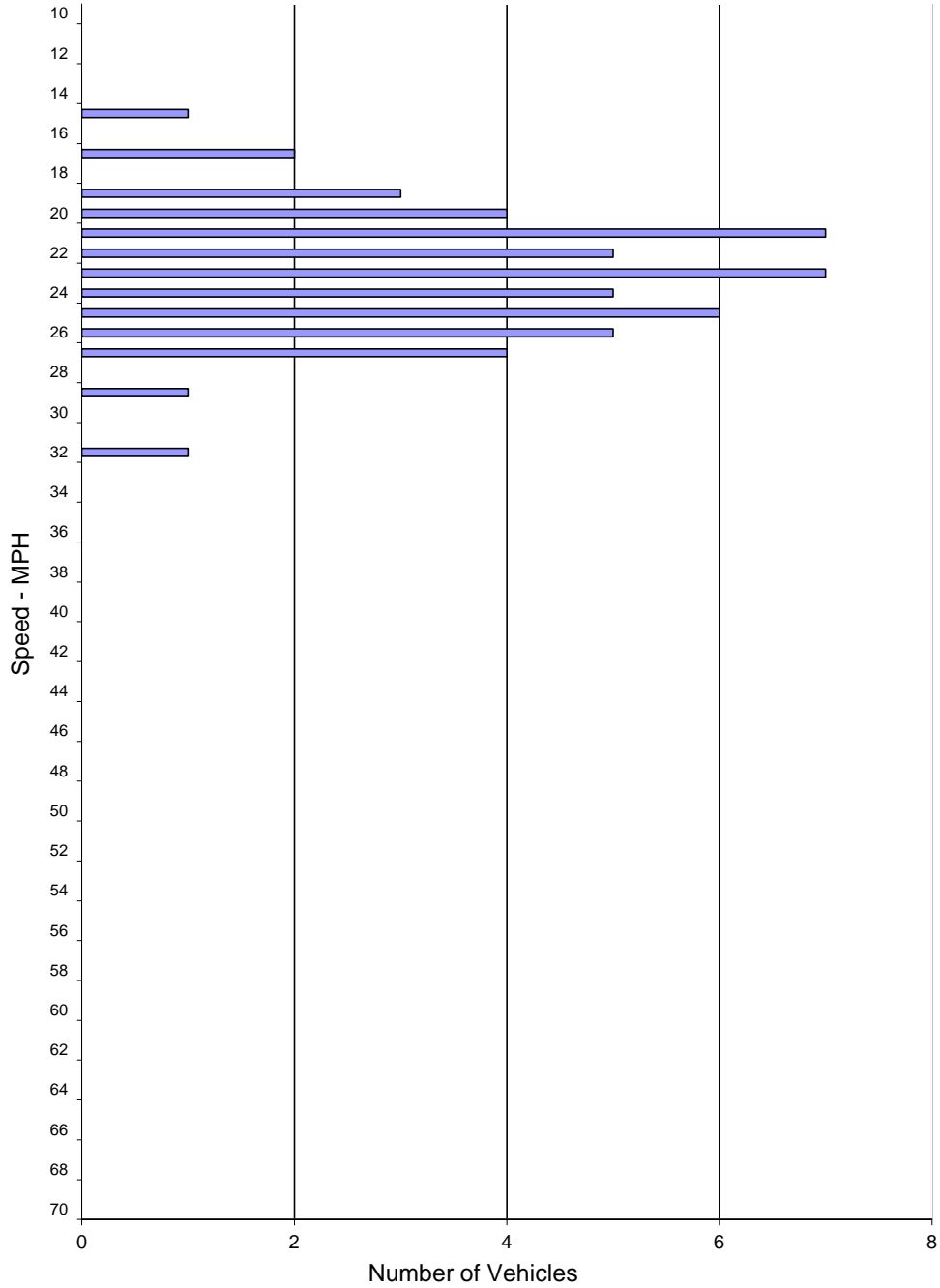
## City of West Hollywood

DATE: 4/4/2016  
DAY: Monday

Location: Carol Dr Bet. Sunset Blvd & Phyllis Ave  
Posted Speed: 25 MPH  
Project #: 16-5198-002

### Northbound Spot Speeds

Speed mph	ALL Vehicles
<=10	
11	
12	
13	
14	
15	1
16	
17	2
18	
19	3
20	4
21	7
22	5
23	7
24	5
25	6
26	5
27	4
28	
29	1
30	
31	
32	1
33	
34	
35	
36	
37	
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67	
68	
69	
>=70	



SPEED PARAMETERS										
Class	Count	Average Speed	Range	50th Percentile	85th Percentile	10 MPH Pace	# in Pace	Percent in Pace	% / # Below Pace	% / # Above Pace
ALL	51	23.0	15 - 32	23 mph	26 mph	18 - 27	46	90%	5% / 3	4% / 2

# Spot Speed Study

Prepared by: National Data & Surveying Services

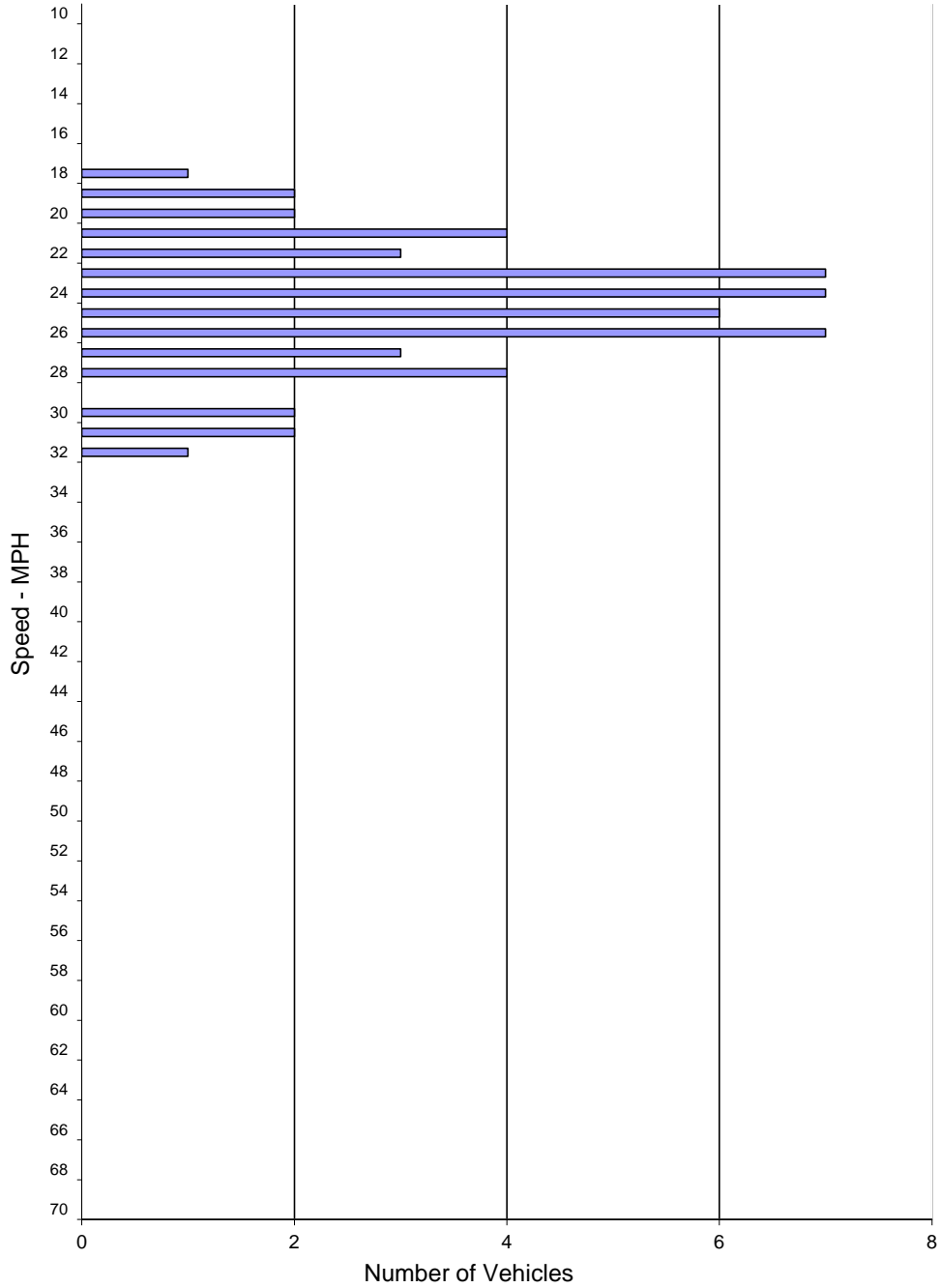
## City of West Hollywood

DATE: 4/4/2016  
DAY: Monday

Location: Carol Dr Bet. Sunset Blvd & Phyllis Ave  
Posted Speed: 25 MPH Project #: 16-5198-002

### Southbound Spot Speeds

Speed mph	ALL Vehicles
<=10	
11	
12	
13	
14	
15	
16	
17	
18	1
19	2
20	2
21	4
22	3
23	7
24	7
25	6
26	7
27	3
28	4
29	
30	2
31	2
32	1
33	
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67	
68	
69	
>=70	



SPEED PARAMETERS										
Class	Count	Average Speed	Range	50th Percentile	85th Percentile	10 MPH Pace	# in Pace	Percent in Pace	% / # Below Pace	% / # Above Pace
ALL	51	24.6	18 - 32	24 mph	28 mph	19 - 28	45	88%	1% / 1	10% / 5

# Spot Speed Study

Prepared by: National Data & Surveying Services

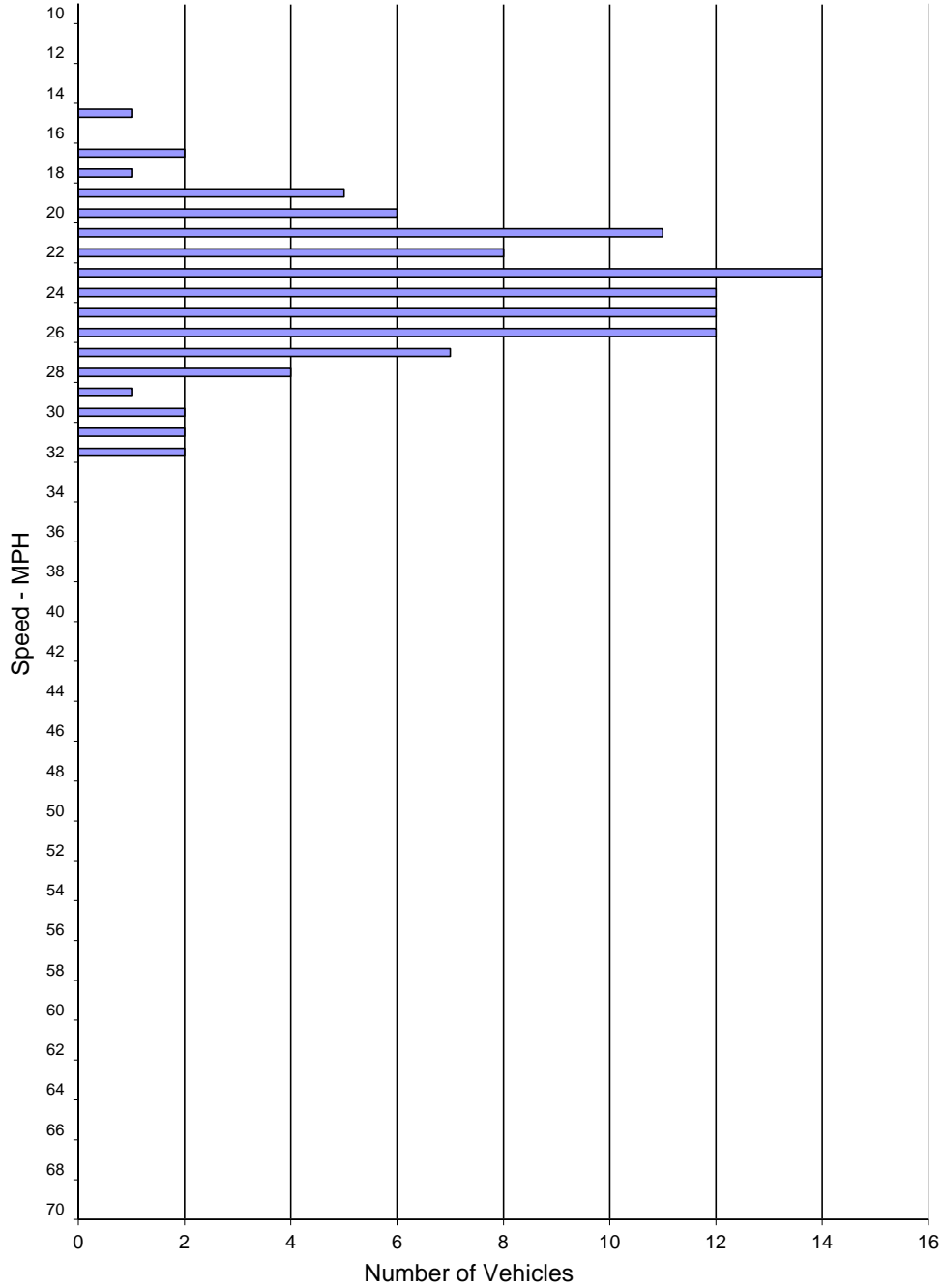
## City of West Hollywood

DATE: 4/4/2016  
DAY: Monday

Location: Carol Dr Bet. Sunset Blvd & Phyllis Ave  
Posted Speed: 25 MPH  
Project #: 16-5198-002

### Northbound & Southbound Spot Speeds

Speed mph	ALL Vehicles
<=10	
11	
12	
13	
14	
15	1
16	
17	2
18	1
19	5
20	6
21	11
22	8
23	14
24	12
25	12
26	12
27	7
28	4
29	1
30	2
31	2
32	2
33	
34	
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>=70	



SPEED PARAMETERS										
Class	Count	Average Speed	Range	50th Percentile	85th Percentile	10 MPH Pace	# in Pace	Percent in Pace	% / # Below Pace	% / # Above Pace
ALL	102	23.8	15 - 32	24 mph	27 mph	19 - 28	91	89%	3% / 4	7% / 7

**APPENDIX E: 24-Hour Counts**

**VOLUME**

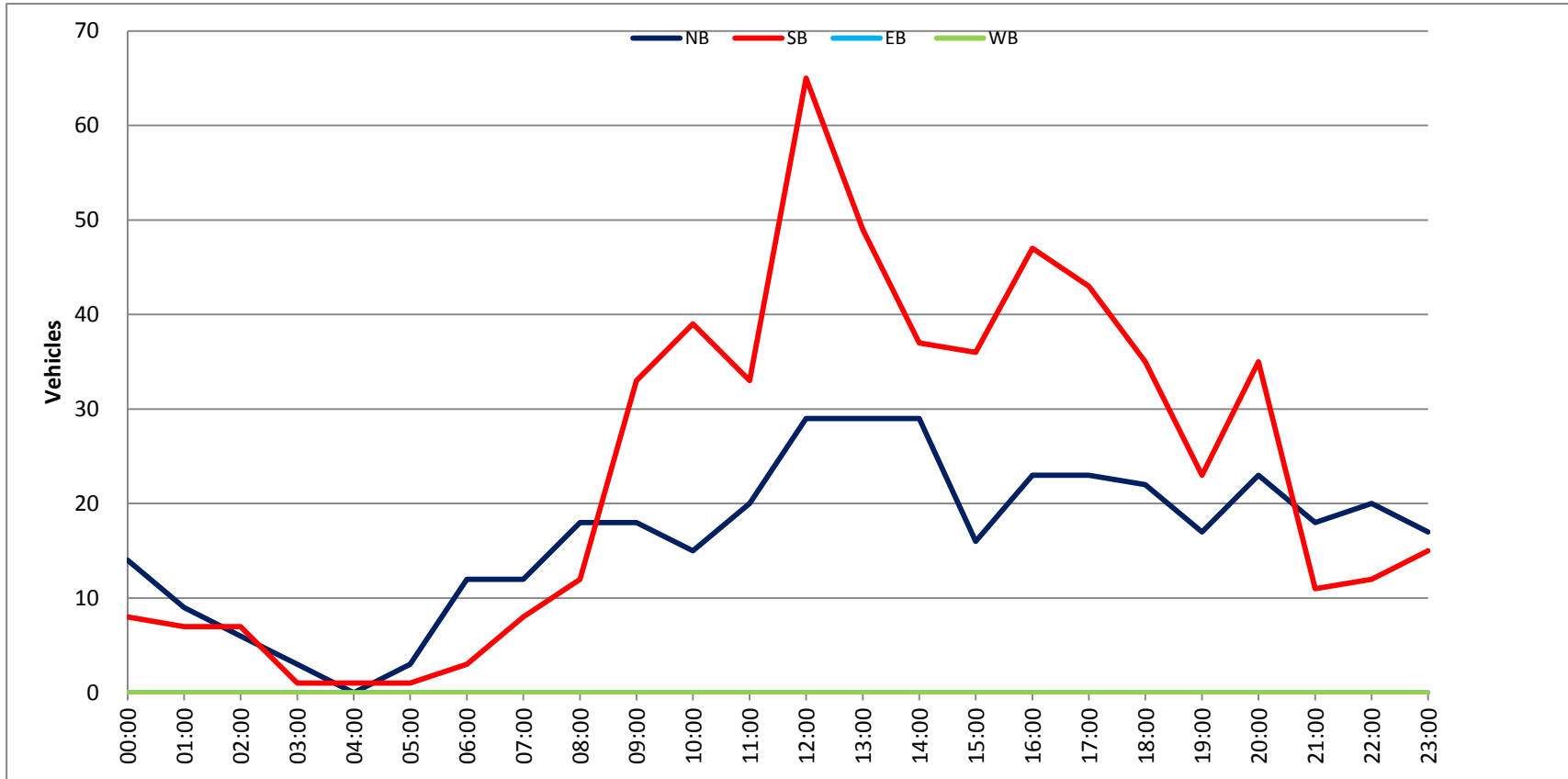
Carol Dr Bet. Sunset Blvd & Phyllis Ave

Day: Thursday  
Date: 3/31/2016

City: West Hollywood  
Project #: CA16\_5199\_002

DAILY TOTALS					NB	SB	EB	WB	Total		
					396	561	0	0	957		
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
00:00	1	2			3	12:00	8	12			20
00:15	3	0			3	12:15	7	19			26
00:30	7	4			11	12:30	8	19			27
00:45	3	14	2	8	5	12:45	6	29	15	65	21
01:00	3	2			5	13:00	4	13			17
01:15	0	1			1	13:15	11	14			25
01:30	5	1			6	13:30	4	11			15
01:45	1	9	3	7	4	13:45	10	29	11	49	21
02:00	3	4			7	14:00	10	6			16
02:15	1	2			3	14:15	8	9			17
02:30	2	1			3	14:30	4	11			15
02:45	0	6	0	7	0	14:45	7	29	11	37	18
03:00	0	0			0	15:00	5	16			21
03:15	1	0			1	15:15	4	2			6
03:30	2	0			2	15:30	3	13			16
03:45	0	3	1	1	1	15:45	4	16	5	36	9
04:00	0	0			0	16:00	6	16			22
04:15	0	0			0	16:15	5	7			12
04:30	0	1			1	16:30	4	14			18
04:45	0	0	1		0	16:45	8	23	10	47	18
05:00	0	0			0	17:00	5	10			15
05:15	1	0			1	17:15	6	11			17
05:30	1	1			2	17:30	5	10			15
05:45	1	3	0	1	1	17:45	7	23	12	43	19
06:00	0	1			1	18:00	7	8			15
06:15	4	1			5	18:15	4	7			11
06:30	1	1			2	18:30	6	10			16
06:45	7	12	0	3	7	18:45	5	22	10	35	15
07:00	2	1			3	19:00	3	4			7
07:15	4	1			5	19:15	6	5			11
07:30	3	1			4	19:30	3	5			8
07:45	3	12	5	8	8	19:45	5	17	9	23	14
08:00	3	3			6	20:00	5	11			16
08:15	5	2			7	20:15	10	15			25
08:30	8	1			9	20:30	5	6			11
08:45	2	18	6	12	8	20:45	3	23	3	35	6
09:00	4	7			11	21:00	2	3			5
09:15	7	8			15	21:15	1	1			2
09:30	3	8			11	21:30	5	4			9
09:45	4	18	10	33	14	21:45	10	18	3	11	13
10:00	3	10			13	22:00	2	4			6
10:15	3	13			16	22:15	7	5			12
10:30	5	8			13	22:30	5	1			6
10:45	4	15	8	39	12	22:45	6	20	2	12	8
11:00	7	10			17	23:00	5	1			6
11:15	4	7			11	23:15	2	8			10
11:30	5	7			12	23:30	4	3			7
11:45	4	20	9	33	13	23:45	6	17	3	15	9
<b>TOTALS</b>	<b>130</b>	<b>153</b>			<b>283</b>	<b>TOTALS</b>	<b>266</b>	<b>408</b>			<b>674</b>
<b>SPLIT %</b>	<b>45.9%</b>	<b>54.1%</b>			<b>29.6%</b>	<b>SPLIT %</b>	<b>39.5%</b>	<b>60.5%</b>			<b>70.4%</b>

DAILY TOTALS					NB	SB	EB	WB	Total
					396	561	0	0	957
AM Peak Hour	11:45	11:45			11:45	PM Peak Hour	13:15	12:15	12:00
AM Pk Volume	27	59			86	PM Pk Volume	35	66	94
Pk Hr Factor	0.844	0.776			0.796	Pk Hr Factor	0.795	0.868	0.870
7 - 9 Volume	30	20	0	0	50	4 - 6 Volume	46	90	0
7 - 9 Peak Hour	07:45	08:00			07:45	4 - 6 Peak Hour	16:45	16:00	16:00
7 - 9 Pk Volume	19	12	0	0	30	4 - 6 Pk Volume	24	47	0
Pk Hr Factor	0.594	0.500	0.000	0.000	0.833	Pk Hr Factor	0.750	0.734	0.000



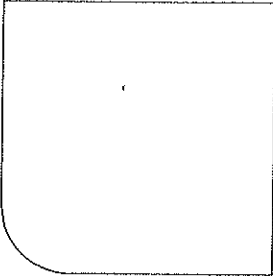
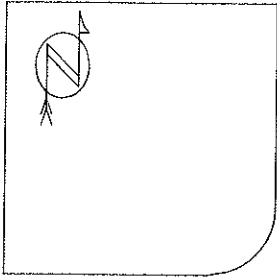


**APPENDIX F: Collision Data**

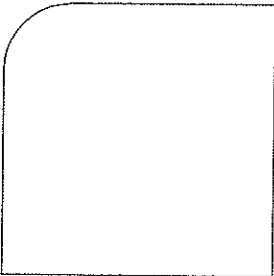
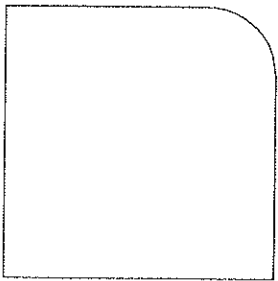
# Carol Dr Sunset Bl to Phyllis St

01/01/14 - 12/31/15

1 Accidents



09/24/15 N 0



(clear filter), (0) accidents with insufficient data for display

- |            |                |            |                                  |
|------------|----------------|------------|----------------------------------|
| Straight   | Parked         | Pedestrian | <b>Fixed objects:</b>            |
| Stopped    | Erratic        | Bicycle    | <input type="checkbox"/> General |
| Unknown    | Out of control | Injury     | <input type="checkbox"/> Signal  |
| Backing    | Right turn     | Fatality   | <input type="checkbox"/> Tree    |
| Overtaking | Left turn      | Nighttime  | <input type="checkbox"/> Pole    |
| Sideswipe  | U-turn         | DUI        | <input type="checkbox"/> Curb    |
|            |                |            | <input type="checkbox"/> Animal  |
|            |                |            | 3rd vehicle                      |
|            |                |            | * Extra data                     |

Intersection Magic VER 6.734  
City of West Hollywood, CA 08/26/2016

Accident listing  
01/01/2014 - 12/31/2015  
Carol Dr Sunset Bl to Phyllis St  
Sorted by <DATE;TIME;ACC#>

STREET 1	DATE	TIME	DAY	DIST	DIR	FROM	INT	KILL	INJ	VEH 1 DIR	VEH 1 TYPE	VEH 1 MOV	VEH 1 SOBER	VE
STREET 2	LIGHTING	COLL	TYPE	VIOL	CAT					VEH 2 DIR	VEH 2 TYPE	VEH 2 MOV	VEH 2 SOBER	VE
WEATHER	ROAD SURF	ROAD COND	CONTROLS	PED	ACTION					VEH 3 DIR	VEH 3 TYPE	VEH 3 MOV	VEH 3 SOBER	VE
SUNSET BL	09/24/15	17:24	Thu	0	Not stated	0	1			SOUTH	Car	Left turn	HNBD (not)	31
CAROL DR	Daylight	Broadside	Auto	right-of-way						EAST	Bicycle	Straight	HNBD (not)	41
Not sta Dry	No unusua	None		No ped involved						Not stated	Not stated	Not stated	Not stated	0