

City of Garden Grove Engineering and Traffic Survey Summary

Street: VALLEY VIEW STREET
 Intersects: GARDEN GROVE BOULEVARD
LAMPSON AVENUE

Field Observer: MIKE ALMIR
 Checked By: MARK MILLER
 Date: 4/2/2014

Factors	Direction: <u>north/south</u>		
<u>A. Prevailing Speed Data</u>			
Location of Survey	12832 Valley View Boulevard		
85th Percentile	40		
10 mph Pace	31 - 40		
Percent in Pace	61.2%		
Posted Speed Limit	45		
<u>B. Collision History</u>			
Date Range Covered	1/1/2010	To 12/31/2011	(2 years)
Total Collisions	11		
Collision Rate (Acc/MVM)	0.573		
Expected Collision Rate	2.3		
<u>C. Traffic Factors</u>			
Average Daily Traffic	50637		
Length of Segment	3992		
Lane Configuration	2 Lanes Each Direction		
Street Classification	Principal Arterial		
<u>D. Conditions Not Readily Apparent</u>			
Conditions			
Roadway Geometrics			
Comments	Limited Access, Continuity of Speed, 45 mph in Westminster.		
<u>E. Adjacent Land Use</u>			
	Commercial/Retail		
Posted Speed Limit	45		
Speed Limit Change?	No		
Revised Speed Limit	45		

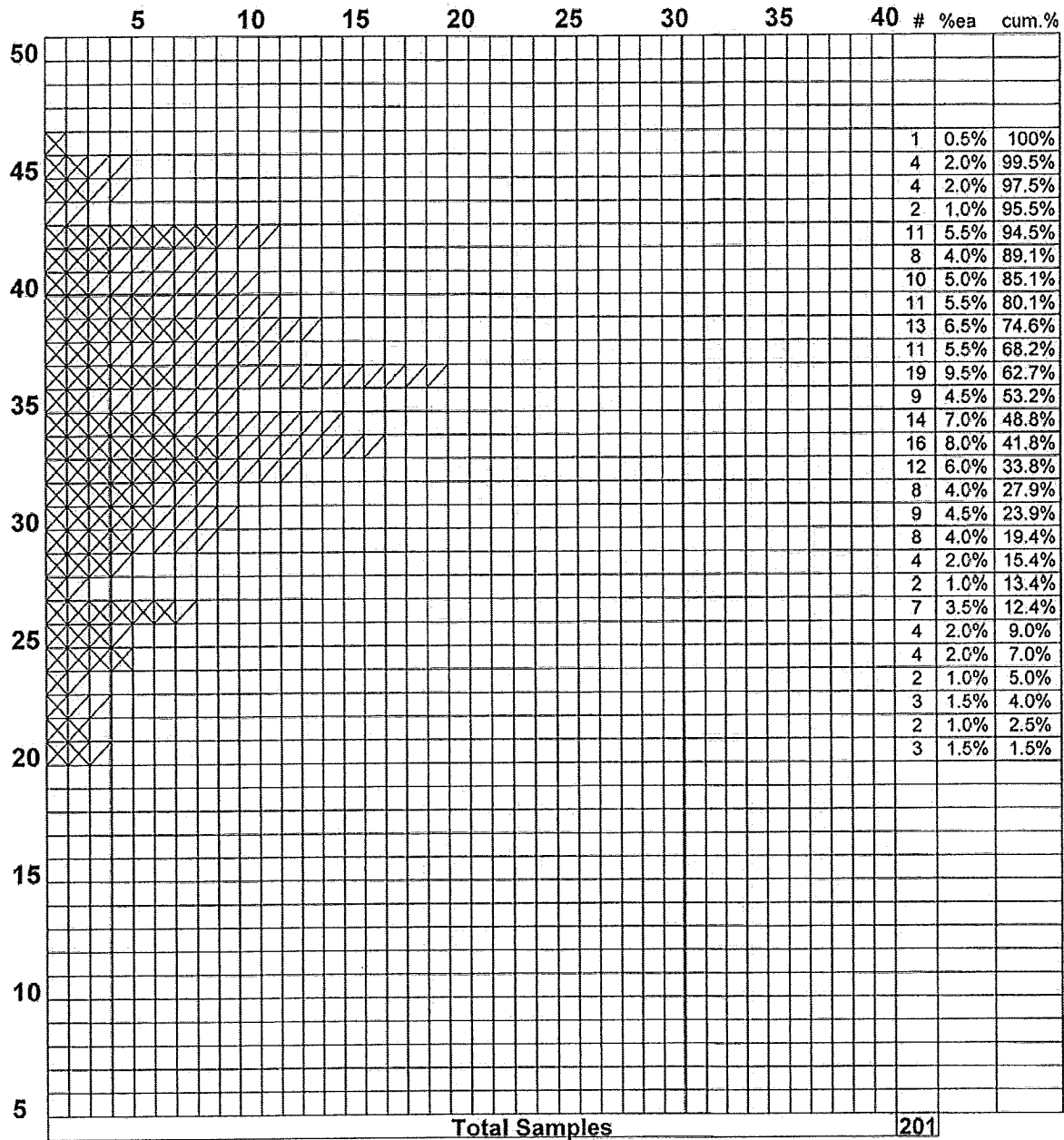
**City of Garden Grove
Traffic Engineering Department**

Street Name: VALLEY VIEW STREET

Limits: GARDEN GROVE BOULEVARD to LAMPSON AVENUE

Radar Survey Sheet

X=North /=South



85th Percentile Speed:	<u>40</u>	Date of Survey:	<u>4/2/2014</u>	Start Time:	<u>9:00</u>
50th Percentile Speed:	<u>35</u>	Weather:	<u>cloudy</u>	End Time:	<u>9:30</u>
15th Percentile Speed:	<u>28</u>	Road Condition:	<u>Construction</u>	Posted Speed:	<u>45</u>
10 MPH Pace:	<u>31-40</u>	Street Class.:	<u>Principal Arterial</u>	Observer:	<u>MIKE ALMIR</u>
Number in Pace:	<u>123</u>	Conditions not Apparent:			
Percent in Pace:	<u>61.2%</u>				

City of Garden Grove Engineering and Traffic Survey Summary

Street: VALLEY VIEW STREET
 Intersects: LAMPSON AVENUE
CHAPMAN AVENUE

Field Observer: ANTONIO
 Checked By: MARK MILLER
 Date: 6/5/2014

Factors	Direction: <u>North/South</u>		
<u>A. Prevailing Speed Data</u>			
Location of Survey	N/A		
85th Percentile	46		
10 mph Pace	38 - 47		
Percent in Pace	80.5%		
Posted Speed Limit	45		
<u>B. Collision History</u>			
Date Range Covered	1/1/2010	To 12/31/2011	(2 yrs)
Total Collisions	7		
Collision Rate (Acc/MVM)	0.627		
Expected Collision Rate	2.3		
<u>C. Traffic Factors</u>			
Average Daily Traffic	47027		
Length of Segment	2443		
Lane Configuration	3 Lanes Each Direction with Raised Median		
Street Classification	Secondary Arterial		
<u>D. Conditions Not Readily Apparent</u>			
Conditions			
Roadway Geometrics			
Comments	Limited Access, Low Accident Rate		
<u>E. Adjacent Land Use</u>			
	Residential/Commercial		
Posted Speed Limit	45		
Speed Limit Change?	No		
Revised Speed Limit	45		

**City of Garden Grove
Traffic Engineering Department**

Street Name: VALLEY VIEW STREET

Limits: LAMPSON AVENUE to CHAPMAN AVENUE

Radars Survey Sheet

X=North /=South

	5	10	15	20	25	30	35	40	#	%ea	cum.%
55									1	0.4%	100%
									1	0.4%	99.6%
									1	0.4%	99.1%
50									4	1.8%	98.7%
									3	1.3%	96.9%
									12	5.3%	95.6%
									11	4.9%	90.3%
									18	8.0%	85.4%
45									17	7.5%	77.4%
									19	8.4%	69.9%
									29	12.8%	61.5%
									20	8.8%	48.7%
									22	9.7%	39.8%
40									16	7.1%	30.1%
									15	6.6%	23.0%
									15	6.6%	16.4%
									6	2.7%	9.7%
									11	4.9%	7.1%
35									2	0.9%	2.2%
									1	0.4%	1.3%
									2	0.9%	0.9%
30											
25											
20											
15											
10											
	Total Samples								226		

85th Percentile Speed:	<u>46</u>	Date of Survey:	<u>6/5/2014</u>	Start Time:	<u>11:35</u>
50th Percentile Speed:	<u>43</u>	Weather:	<u>Sunny</u>	End Time:	<u>11:50</u>
15th Percentile Speed:	<u>38</u>	Road Condition:	<u>New</u>	Posted Speed:	<u>45</u>
10 MPH Pace:	<u>38- 47</u>	Street Class.:	<u>Secondary Arterial</u>	Observer:	<u>ANTONIO</u>
Number in Pace:	<u>182</u>	Conditions not Apparent:			
Percent in Pace:	<u>80.5%</u>				

City of Garden Grove Engineering and Traffic Survey Summary

Street: LAMPSON AVENUE
 nits: MANLEY STREET (WEST CITY LIMITS)
VALLEY VIEW STREET

Field Observer: ANTONIO
 Checked By: MARK MILLER
 Date: 4/2/2014

Factors	Direction: <u>East/West</u>		
<u>A. Prevailing Speed Data</u>			
Location of Survey	Blackmer Street		
85th Percentile	47		
10 mph Pace	38 - 47		
Percent in Pace	70.2%		
Posted Speed Limit	45		
<u>B. Collision History</u>			
Date Range Covered	1/1/2010	To 12/31/2011	(2 yrs)
Total Collisions	0		
Collision Rate (Acc/MVM)	0		
Expected Collision Rate	2.3		
<u>C. Traffic Factors</u>			
Average Daily Traffic	10909		
Length of Segment	3586		
Lane Configuration	2 Lane with Raised Median		
Street Classification	Secondary Arterial		
<u>D. Conditions Not Readily Apparent</u>			
Conditions			
Roadway Geometrics			
Comments	No Parking, Bike Lane, Striped Median, Block Walls, 45 mph in Seal Beach		
<u>E. Adjacent Land Use</u>			
	Residential/Commercial		
Posted Speed Limit	45		
Speed Limit Change?	No		
Revised Speed Limit	45		
Loc. # 100			

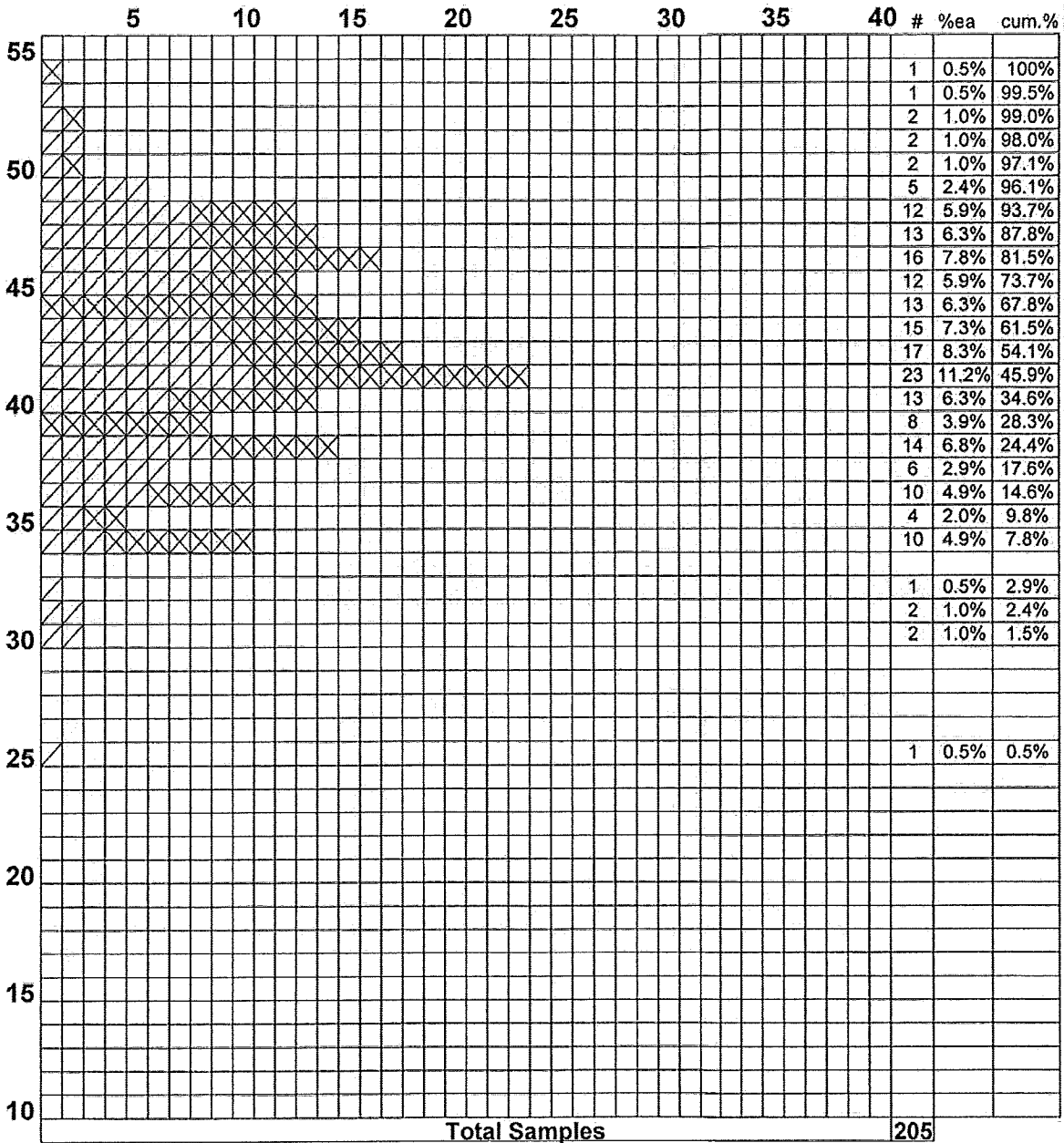
**City of Garden Grove
Traffic Engineering Department**

Street Name: LAMPSON AVENUE

Limits: MANLEY STREET (WEST CITY LIMITS) to VALLEY VIEW STREET

Radar Survey Sheet

X=West /=East



85th Percentile Speed:	<u>47</u>	Date of Survey:	<u>4/2/2014</u>	Start Time:	<u>9:10</u>
50th Percentile Speed:	<u>42</u>	Weather:	<u>Sunny</u>	End Time:	<u>9:30</u>
15th Percentile Speed:	<u>37</u>	Road Condition:	<u>Good</u>	Posted Speed:	<u>45</u>
10 MPH Pace:	<u>38- 47</u>	Street Class.:	<u>Secondary Arterial</u>	Observer:	<u>ANTONIO</u>
Number in Pace:	<u>144</u>	Conditions not Apparent:			
Percent in Pace:	<u>70.2%</u>				

City of Garden Grove Engineering and Traffic Survey Summary

Street: LAMPSON AVENUE
 Intersects: VALLEY VIEW STREET
SPRINGDALE STREET

Field Observer: ANTONIO
 Checked By: MARK MILLER
 Date: 4/2/2014

Factors	Direction: <u>East/West</u>		
<u>A. Prevailing Speed Data</u>			
Location of Survey	N/A		
85th Percentile	44		
10 mph Pace	36 - 45		
Percent in Pace	88.4%		
Posted Speed Limit	40		
<u>B. Collision History</u>			
Date Range Covered	1/1/2010	To 12/31/2011	(2 yrs)
Total Collisions	0		
Collision Rate (Acc/MVM)	0		
Expected Collision Rate	2.3		
<u>C. Traffic Factors</u>			
Average Daily Traffic	9222		
Length of Segment	3000		
Lane Configuration	2 Lane with Raised Median		
Street Classification	Secondary Arterial		
<u>D. Conditions Not Readily Apparent</u>			
Conditions			
Roadway Geometrics			
Comments	25 mph When Children Are Present, Block Walls, Bike Lane, No Parking, 2 Way Left Turn Pocket, School, Low Accident Rate		
<u>E. Adjacent Land Use</u>			
	Multi Family Residential		
Posted Speed Limit	40		
Speed Limit Change?	No		
Revised Speed Limit	40		

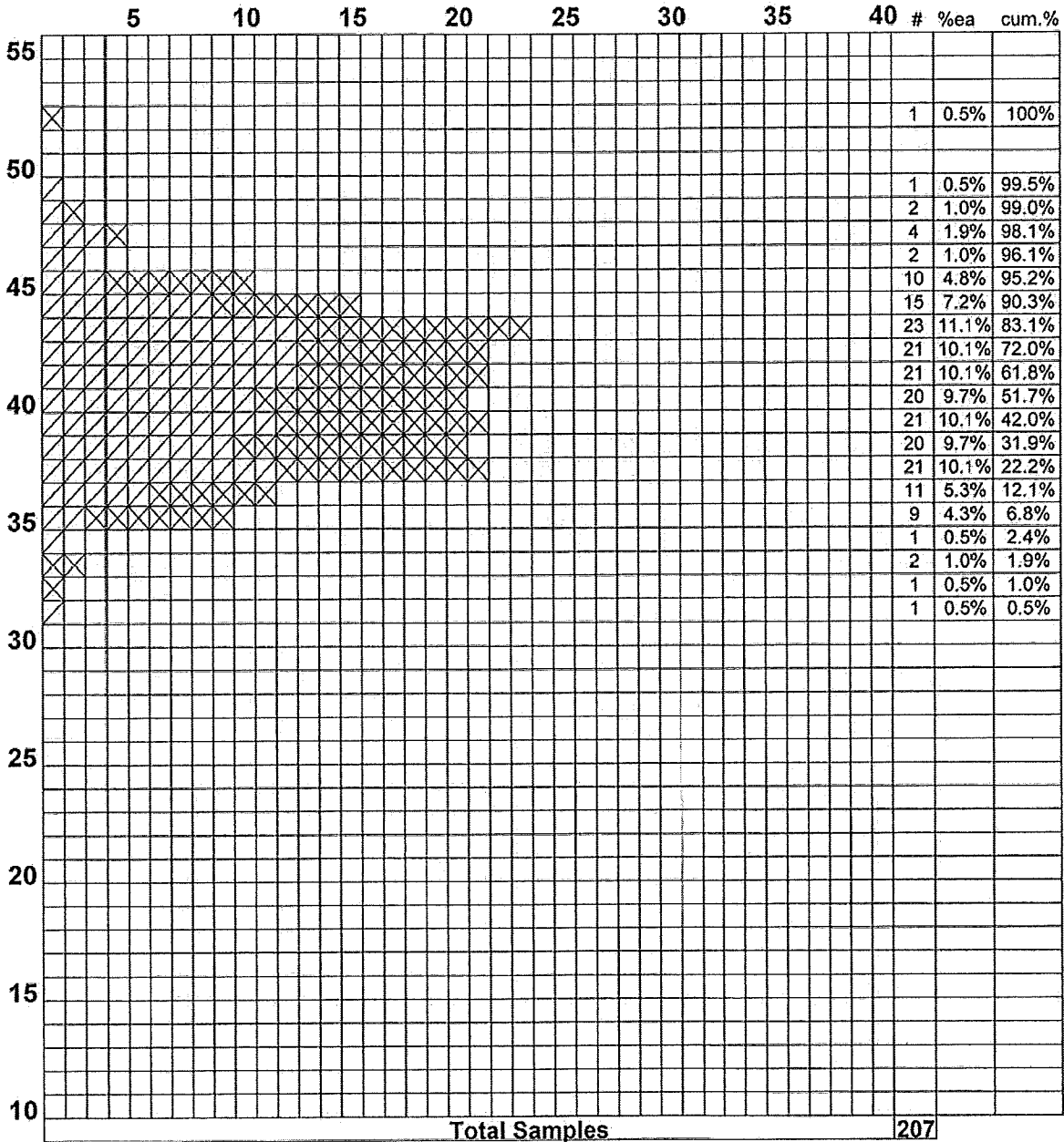
**City of Garden Grove
Traffic Engineering Department**

Street Name: LAMPSON AVENUE

Limits: VALLEY VIEW STREET to SPRINGDALE STREET

Radars Survey Sheet

X=West /=East



85th Percentile Speed:	<u>44</u>	Date of Survey:	<u>4/2/2014</u>	Start Time:	<u>9:32</u>
50th Percentile Speed:	<u>40</u>	Weather:	<u>Overcast/Sunny</u>	End Time:	<u>9:54</u>
15th Percentile Speed:	<u>37</u>	Road Condition:	<u>New</u>	Posted Speed:	<u>40</u>
10 MPH Pace:	<u>36-45</u>	Street Class.:	<u>Secondary Arterial</u>	Observer:	<u>ANTONIO</u>
Number in Pace:	<u>183</u>	Conditions not Apparent:			
Percent in Pace:	<u>88.4%</u>				

City of Garden Grove Engineering and Traffic Survey Summary

Street: BROOKHURST STREET
 Limits: WESTMINSTER AVENUE
TRASK AVENUE

Field Observer: MIKE ALMIR
 Checked By: MARK MILLER
 Date: 4/10/2014

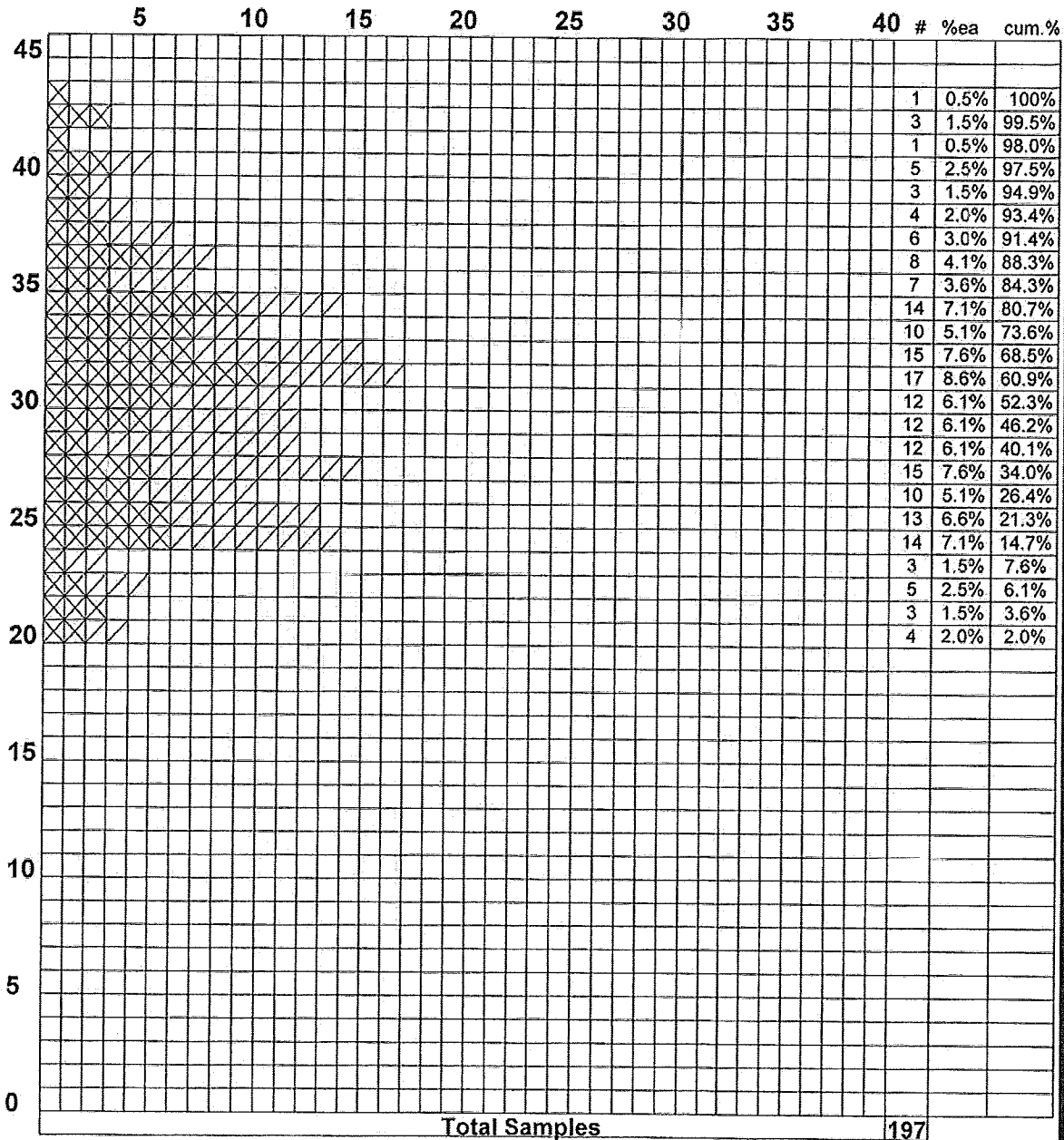
Factors	Direction: <u>north/south</u>		
<u>A. Prevailing Speed Data</u>			
Location of Survey	13831 Brookhurst Street		
85th Percentile	36		
10 mph Pace	24 - 33		
Percent in Pace	66.0%		
Posted Speed Limit	40		
<u>B. Collision History</u>			
Date Range Covered	1/1/2010	To 12/31/2011	(2 years)
Total Collisions	12		
Collision Rate (Acc/MVM)	0.57		
Expected Collision Rate	2.3		
<u>C. Traffic Factors</u>			
Average Daily Traffic	57768		
Length of Segment	2637		
Lane Configuration	3 Lanes Each Direction		
Street Classification	Principal Arterial		
<u>D. Conditions Not Readily Apparent</u>			
Conditions			
Roadway Geometrics			
Comments	No Parking		
<u>E. Adjacent Land Use</u>			
	Retail/Commercial		
Posted Speed Limit	40		
Speed Limit Change?	No		
Revised Speed Limit	40		

**City of Garden Grove
Traffic Engineering Department**

Street Name: BROOKHURST STREET
Limits: WESTMINSTER AVENUE to TRASK AVENUE

Radar Survey Sheet

X=North /=South



85th Percentile Speed: 36
50th Percentile Speed: 30
15th Percentile Speed: 25
10 MPH Pace: 24-33
Number in Pace: 130
Percent in Pace: 66.0%

Date of Survey: 4/10/2014 Start Time: 14:30
Weather: clear End Time: 15:00
Road Condition: good Posted Speed: 40
Street Class.: Principal Arterial Observer: MIKE ALMIR
Conditions not Apparent:

City of Garden Grove Engineering and Traffic Survey Summary

Street: BROOKHURST STREET
 Limits: TRASK AVENUE
GARDEN GROVE BOULEVARD

Field Observer: MIKE ALMIR
 Checked By: MARK MILLER
 Date: 4/10/2014

Factors	Direction: <u>north/south</u>		
<u>A. Prevailing Speed Data</u>			
Location of Survey	13161 Brookhurst Street		
85th Percentile	34		
10 mph Pace	23 - 32		
Percent in Pace	66.7%		
Posted Speed Limit	45		
<u>B. Collision History</u>			
Date Range Covered	1/1/2010	To 12/31/2011	(2 years)
Total Collisions	1		
Collision Rate (Acc/MVM)	0.058		
Expected Collision Rate	2.3		
<u>C. Traffic Factors</u>			
Average Daily Traffic	47193		
Length of Segment	2641		
Lane Configuration	3 Lanes Each Direction		
Street Classification	Principal Arterial		
<u>D. Conditions Not Readily Apparent</u>			
Conditions			
Roadway Geometrics			
Comments	Decrease Speed Limit from 45 mph to 40 mph, 85th Percentile, No Parking, Bike Lane		
<u>E. Adjacent Land Use</u>			
	Multi Family Residential/Retail		
Posted Speed Limit	45		
Speed Limit Change?	Yes		
Revised Speed Limit	40		
Loc. #3			

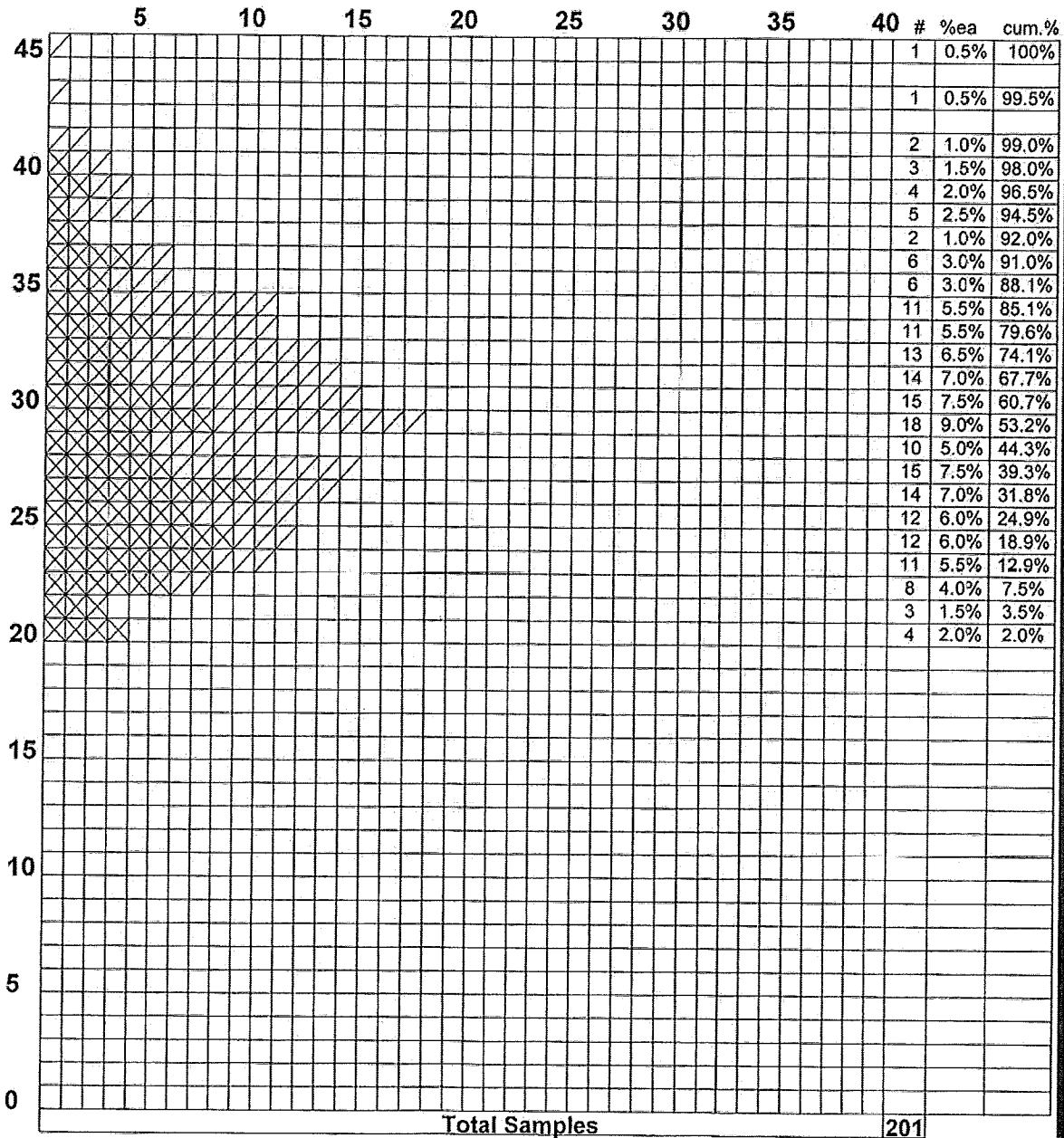
**City of Garden Grove
Traffic Engineering Department**

Street Name: BROOKHURST STREET

Limits: TRASK AVENUE to GARDEN GROVE BOULEVARD

Radar Survey Sheet

X=North /=South



85th Percentile Speed: 34
 50th Percentile Speed: 29
 15th Percentile Speed: 24
 10 MPH Pace: 23-32
 Number in Pace: 134
 Percent in Pace: 66.7%

Date of Survey: 4/10/2014 Start Time: 15:00
 Weather: clear End Time: 15:30
 Road Condition: fair Posted Speed: 45
 Street Class.: Principal Arterial Observer: MIKE ALMIR
 Conditions not Apparent:

City of Garden Grove Engineering and Traffic Survey Summary

Street: TRASK AVENUE
 Intersects: GALWAY STREET
BROOKHURST STREET

Field Observer: ANTONIO
 Checked By: MARK MILLER
 Date: 4/8/2014

Factors	Direction: <u>East/West</u>		
<u>A. Prevailing Speed Data</u>			
Location of Survey	Toyota Place		
85th Percentile	46		
10 mph Pace	37 - 46		
Percent in Pace	76.0%		
Posted Speed Limit	40		
<u>B. Collision History</u>			
Date Range Covered	1/1/2010	To 12/31/2011	(2 yrs)
Total Collisions	5		
Collision Rate (Acc/MVM)	1.313		
Expected Collision Rate	2.3		
<u>C. Traffic Factors</u>			
Average Daily Traffic	10971		
Length of Segment	2510		
Lane Configuration	2 Lanes Each Direction		
Street Classification	Secondary Arterial		
<u>D. Conditions Not Readily Apparent</u>			
Conditions			
Roadway Geometrics			
Comments	Multiple Driveways, 2 Way Left Turn Pocket, School X-ing, 22W-FWY Entrance		
<u>E. Adjacent Land Use</u>			
	Residential/Commercial		
Posted Speed Limit	40		
Speed Limit Change?	No		
Revised Speed Limit	40		
Loc. #128			

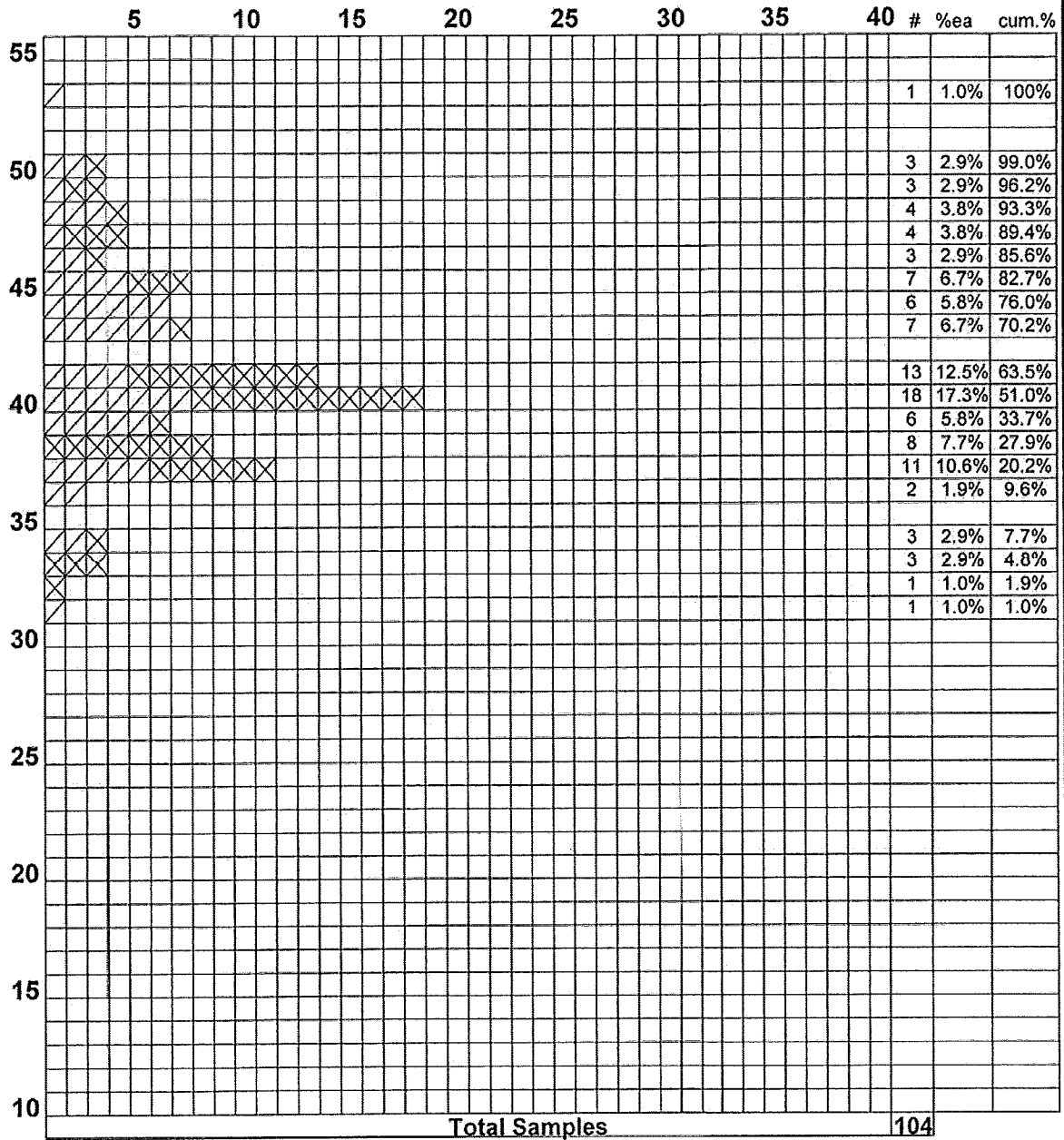
**City of Garden Grove
Traffic Engineering Department**

Street Name: TRASK AVENUE

Limits: GALWAY STREET to BROOKHURST STREET

Radars Survey Sheet

X=West /=East



85th Percentile Speed:	<u>46</u>	Date of Survey:	<u>4/8/2014</u>	Start Time:	<u>10:15</u>
50th Percentile Speed:	<u>40</u>	Weather:	<u>Sunny</u>	End Time:	<u>10:30</u>
15th Percentile Speed:	<u>37</u>	Road Condition:	<u>Good</u>	Posted Speed:	<u>40</u>
10 MPH Pace:	<u>37-46</u>	Street Class.:	<u>Secondary Arterial</u>	Observer:	<u>ANTONIO</u>
Number in Pace:	<u>79</u>	Conditions not Apparent:			
Percent in Pace:	<u>76.0%</u>				

City of Garden Grove Engineering and Traffic Survey Summary

Street: TRASK AVENUE
 Intersects: BROOKHURST STREET
BENTON STREET

Field Observer: ANTONIO
 Checked By: MARK MILLER
 Date: 4/8/2014

Factors	Direction: <u>East/West</u>		
<u>A. Prevailing Speed Data</u>			
Location of Survey	"Chevrolet Dealer"		
85th Percentile	44		
10 mph Pace	35 - 44		
Percent in Pace	80.0%		
Posted Speed Limit	40		
<u>B. Collision History</u>			
Date Range Covered	1/1/2010	To 12/31/2011	(2 yrs)
Total Collisions	1		
Collision Rate (Acc/MVM)	0.184		
Expected Collision Rate	2.3		
<u>C. Traffic Factors</u>			
Average Daily Traffic	14810		
Length of Segment	2656		
Lane Configuration	2 Lanes Each Direction		
Street Classification	Secondary Arterial		
<u>D. Conditions Not Readily Apparent</u>			
Conditions			
Roadway Geometrics			
Comments	No Parking, Multiple Driveways, 2 Way Left Turn Pocket, Bike Lane		
<u>E. Adjacent Land Use</u>			
	Multi Family Residential		
Posted Speed Limit	40		
Speed Limit Change?	No		
Revised Speed Limit	40		
Loc. # 129			

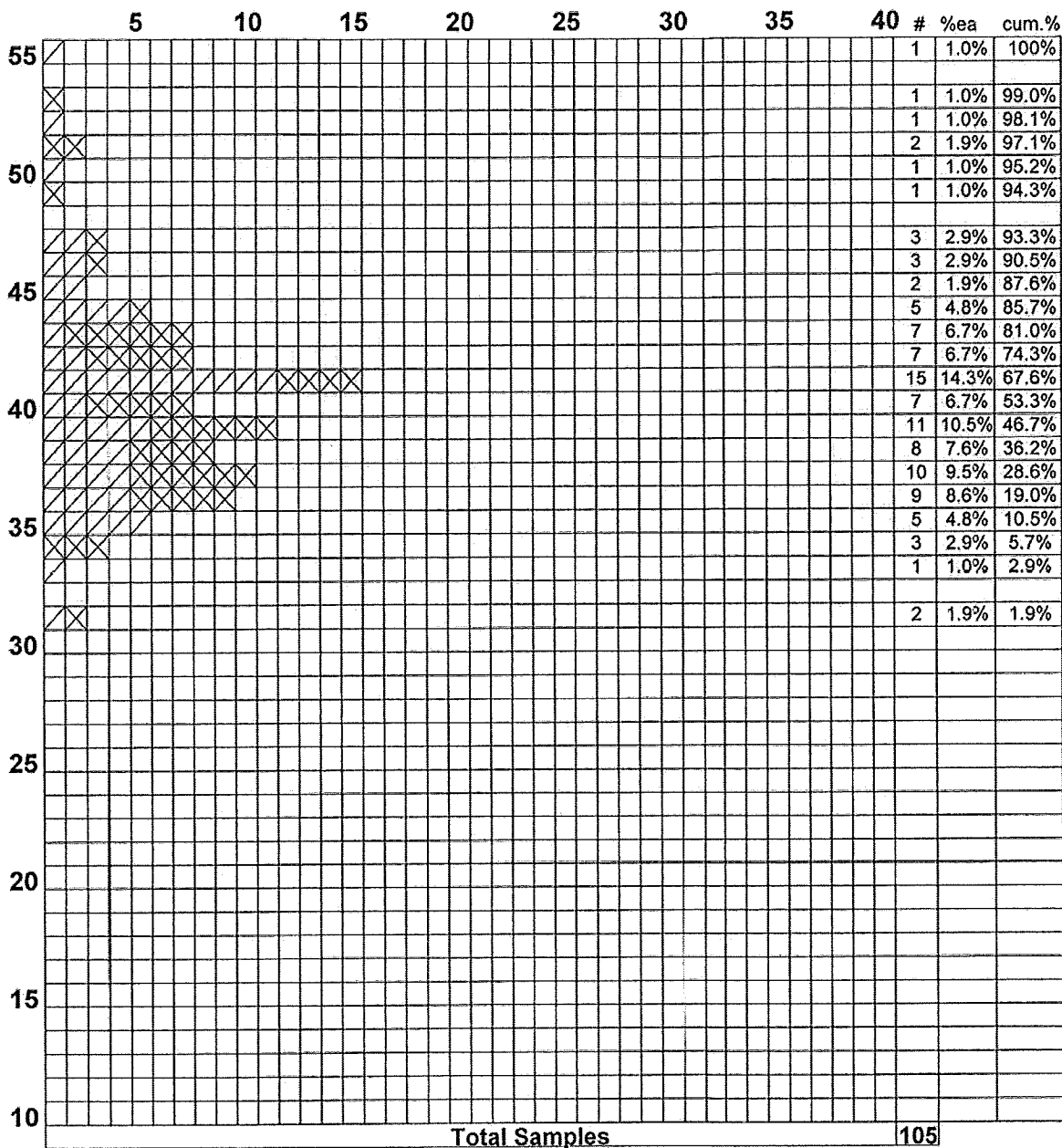
**City of Garden Grove
Traffic Engineering Department**

Street Name: TRASK AVENUE

Limits: BROOKHURST STREET to BENTON STREET

Radars Survey Sheet

X=West / =East



85th Percentile Speed:	<u>44</u>	Date of Survey:	<u>4/8/2014</u>	Start Time:	<u>10:33</u>
50th Percentile Speed:	<u>40</u>	Weather:	<u>Sunny</u>	End Time:	<u>10:47</u>
15th Percentile Speed:	<u>36</u>	Road Condition:	<u>Good</u>	Posted Speed:	<u>40</u>
10 MPH Pace:	<u>35-44</u>	Street Class.:	<u>Secondary Arterial</u>	Observer:	<u>ANTONIO</u>
Number in Pace:	<u>84</u>	Conditions not Apparent:			
Percent in Pace:	<u>80.0%</u>				

City of Garden Grove Engineering and Traffic Survey Summary

Street: BROOKHURST STREET
 Limits: LAMPSON AVENUE
CHAPMAN AVENUE

Field Observer: MIKE ALMIR
 Checked By: MARK MILLER
 Date: 4/15/2014

Factors	Direction: <u>north/south</u>		
<u>A. Prevailing Speed Data</u>			
Location of Survey	12072 Brookhurst Street		
85th Percentile	39		
10 mph Pace	27 - 36		
Percent in Pace	60.5%		
Posted Speed Limit	45		
<u>B. Collision History</u>			
Date Range Covered	1/1/2010	To 12/31/2011	(2 years)
Total Collisions	5		
Collision Rate (Acc/MVM)	0.355		
Expected Collision Rate	2.3		
<u>C. Traffic Factors</u>			
Average Daily Traffic	38453		
Length of Segment	2649		
Lane Configuration	3 Lanes Each Direction		
Street Classification	Principal Arterial		
<u>D. Conditions Not Readily Apparent</u>			
Conditions			
Roadway Geometrics			
Comments	Decrease Speed Limit from 45 mph to 40 mph, 85th Percentile, Curvy, Parking, Bike Lane		
<u>E. Adjacent Land Use</u>			
	Retail/Commercial		
Posted Speed Limit	45		
Speed Limit Change?	Yes		
Revised Speed Limit	40		
Loc. #5			

City of Garden Grove Engineering and Traffic Survey Summary

Street: BROOKHURST STREET
 Limits: CHAPMAN AVENUE
ORANGEWOOD AVENUE

Field Observer: MIKE ALMIR
 Checked By: MARK MILLER
 Date: 4/15/2014

Factors	Direction: <u>north/south</u>		
<u>A. Prevailing Speed Data</u>			
Location of Survey	11771 Brookhurst Street		
85th Percentile	48		
10 mph Pace	38 - 47		
Percent in Pace	60.0%		
Posted Speed Limit	45		
<u>B. Collision History</u>			
Date Range Covered	1/1/2010	To 12/31/2011	(2 years)
Total Collisions	4		
Collision Rate (Acc/MVM)	0.34		
Expected Collision Rate	2.3		
<u>C. Traffic Factors</u>			
Average Daily Traffic	31957		
Length of Segment	2665		
Lane Configuration	3 Lanes Each Direction		
Street Classification	Principal Arterial		
<u>D. Conditions Not Readily Apparent</u>			
Conditions			
Roadway Geometrics			
Comments	Low Accident Rate, Bike Lane, Limited Parking		
<u>E. Adjacent Land Use</u>			
	Residential		
Posted Speed Limit	45		
Speed Limit Change?	No		
Revised Speed Limit	45		

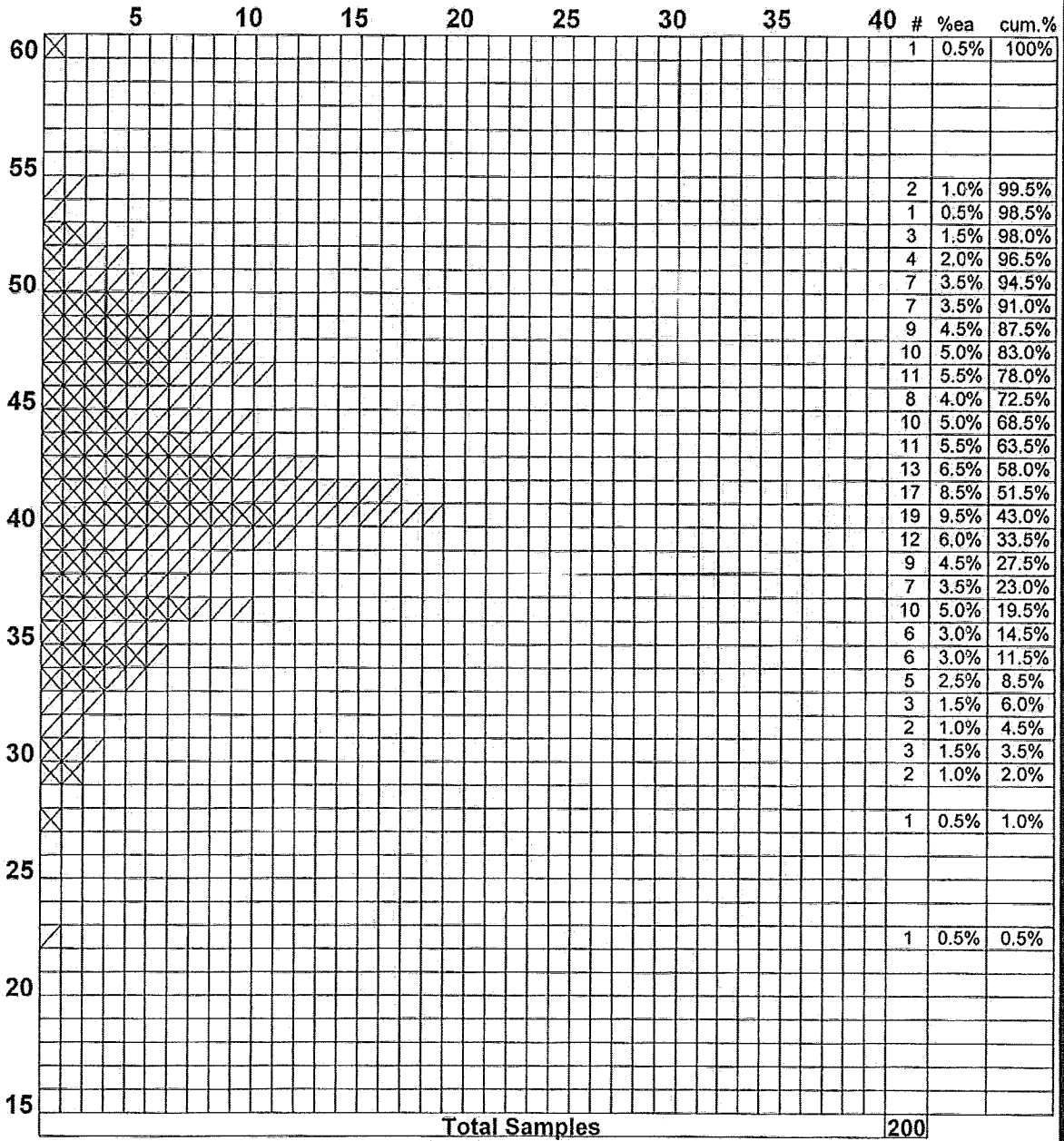
**City of Garden Grove
Traffic Engineering Department**

Street Name: BROOKHURST STREET

Limits: CHAPMAN AVENUE to ORANGEWOOD AVENUE

Radars Survey Sheet

X=North /-South



85th Percentile Speed: 48
 50th Percentile Speed: 41
 15th Percentile Speed: 36
 10 MPH Pace: 38-47
 Number in Pace: 120
 Percent in Pace: 60.0%

Date of Survey: 4/15/2014 Start Time: 9:30
 Weather: clear End Time: 10:00
 Road Condition: good Posted Speed: 45
 Street Class.: Principal Arterial Observer: MIKE ALMIR
 Conditions not Apparent:

City of Garden Grove Engineering and Traffic Survey Summary

Street: CHAPMAN AVENUE
 Intersects: GILBERT STREET
BROOKHURST STREET

Field Observer: ANTONIO ELMORE
 Checked By: MARK MILLER
 Date: 4/1/2014

Factors	Direction: <u>east/west</u>		
<u>A. Prevailing Speed Data</u>			
Location of Survey	24 Hour Fitness		
85th Percentile	43		
10 mph Pace	34 - 43		
Percent in Pace	71.6%		
Posted Speed Limit	40		
<u>B. Collision History</u>			
Date Range Covered	1/1/2010	To 12/31/2011	(2 years)
Total Collisions	6		
Collision Rate (Acc/MVM)	0.589		
Expected Collision Rate	2.3		
<u>C. Traffic Factors</u>			
Average Daily Traffic	27885		
Length of Segment	2644		
Lane Configuration	3 Lanes Each Direction		
Street Classification	Principal Arterial		
<u>D. Conditions Not Readily Apparent</u>			
Conditions			
Roadway Geometrics			
Comments	No Parking		
<u>E. Adjacent Land Use</u>			
	Commercial		
Posted Speed Limit	40		
Speed Limit Change?	No		
Revised Speed Limit	40		
Loc. #77			

City of Garden Grove Engineering and Traffic Survey Summary

Street: CHAPMAN AVENUE
 mits: BROOKHURST STREET
NUTWOOD STREET

Field Observer: ANTONIO ELMORE
 Checked By: MARK MILLER
 Date: 4/1/2014

Factors	Direction: <u>east/west</u>		
<u>A. Prevailing Speed Data</u>			
Location of Survey	10200 Chapman Avenue		
85th Percentile	48		
10 mph Pace	34 - 43		
Percent in Pace	67.9%		
Posted Speed Limit	40		
<u>B. Collision History</u>			
Date Range Covered	1/1/2010	To 12/31/2011	(2 years)
Total Collisions	2		
Collision Rate (Acc/MVM)	0.195		
Expected Collision Rate	2.3		
<u>C. Traffic Factors</u>			
Average Daily Traffic	27986		
Length of Segment	2656		
Lane Configuration	2 Lanes Each Direction		
Street Classification	Principal Arterial		
<u>D. Conditions Not Readily Apparent</u>			
Conditions			
Roadway Geometrics			
Comments 2 Way Left Turn Pocket, Multiple Driveways, Bike Lane, Low Accident Rate, Continuity of Speed			
<u>E. Adjacent Land Use</u>			
Residential			
Posted Speed Limit	40		
Speed Limit Change?	No		
Revised Speed Limit	40		
Loc. #78			

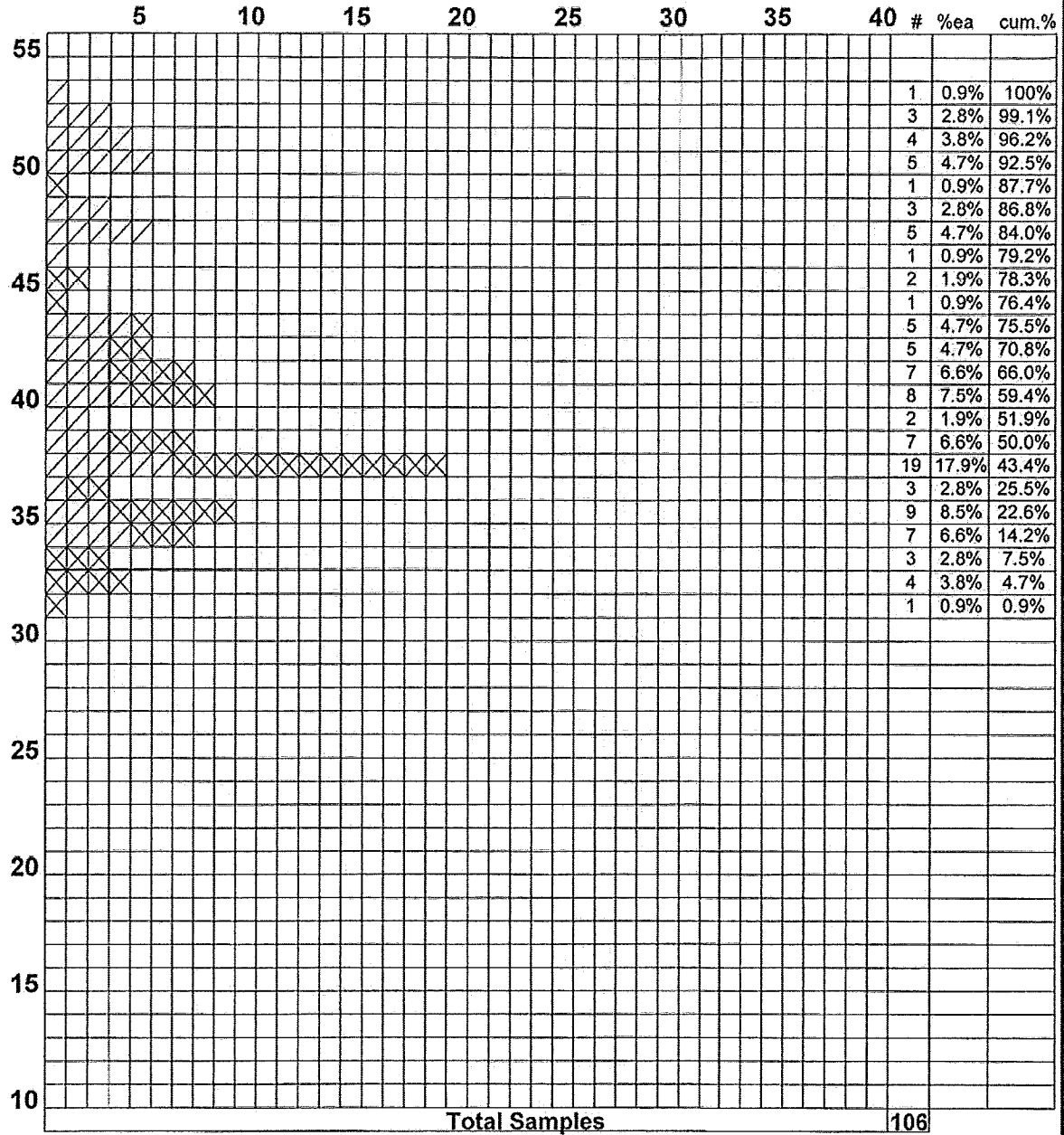
**City of Garden Grove
Traffic Engineering Department**

Street Name: CHAPMAN AVENUE

Limits: BROOKHURST STREET to NUTWOOD STREET

Radar Survey Sheet

X=West /=East



85th Percentile Speed: 48
 50th Percentile Speed: 38
 15th Percentile Speed: 35
 10 MPH Pace: 34-43
 Number in Pace: 72
 Percent in Pace: 67.9%

Date of Survey: 4/1/2014 Start Time: 11:48
 Weather: cloudy End Time: 12:08
 Road Condition: good Posted Speed: 40
 Street Class.: Principal Arterial Observer: ANTONIO EL
 Conditions not Apparent: