



North Hope Avenue

Traffic & Engineering Survey Summary

From / To	State Street to Pueblo Avenue
FAU Classification	Urban Arterial
Width	30 to 50 Feet
Length	4,010 Feet
Striping, Parking and Land Use Memorandum	Reference Transportation Operation
Existing Posted Speed Limit	35 miles per hour (mph)
85th Percentile Speed	38.5mph at 298 N Hope Ave. 37.5mph at 559 N Hope Ave.
Pace	29 to 39mph at 298 N Hope Ave. 27 to 37mph at 559 N Hope Ave.
Average Daily Traffic	4,150 ADT @ 298 N Hope Ave
2,870 ADT @ 559 N Hope Ave	
Special Characteristics	Hidden residential and commercial driveways
Engineer's Determination of Speed Limit	35 miles per hour (mph)
Speed Survey Expiry Date:	6/27/2019
Date prepared	6/27/2012 JER

City of Santa Barbara
Derrick Bailey P.E., T.E.
Supervising Transportation Engineer
Registered Civil Engineer Number C 65726



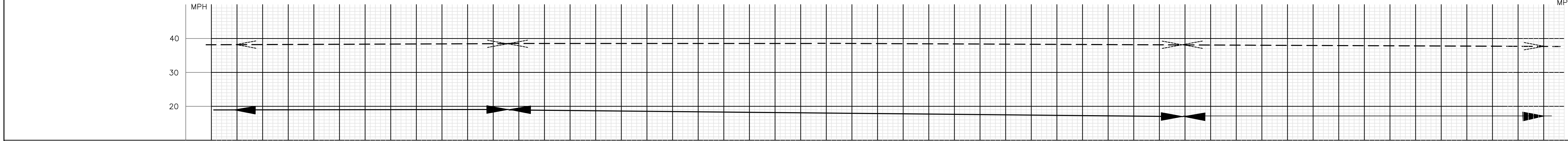


ROADWAY WIDTH	50 FEET	40 FEET	35 FEET	35 FEET	34 FEET	32 FEET	33 FEET	32 FEET	30 FEET	32 FEET	40 FEET	43 FEET	35 FEET	40 FEET
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NO. OF STRIPED LANES TWO

TYPE OF DIVISION STRIPE DOUBLE YELLOW

TRAFFIC SIGNAL DATA	<i>SEMMI ACT</i>	
AVERAGE DAILY TRAFFIC	4,150	2,870
OBSERVED SPEED CRITICAL	38.5 mph	37.5 mph
OBSERVED SPEED 10 mph PACE	29 to 39 mph	27 to 37 mph
EXISTING SIGNED ZONE	35 MPH	35 MPH
PROPOSED SPEED LIMIT	35 MPH	35 MPH



DISTANCE IN FEET (1" = 200')	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
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SEGMENT COLLISION RATE	6.62 acc/MVM	1.59 acc/MVM	1.16 acc/MVM
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2009 District 5 Urban 2 LN Accident Rate = (1.59 acc/MVM)

2009 Statewide 3 yr 2 LN Accident Rate = (1.42 acc/MVM)

CITY OF SANTA BARBARA



SPEED ZONE SURVEY
NORTH HOPE AVENUE

FROM STATE STREET
TO PUEBLO AVENUE
SCALE: 1" = 150'
DATE: 6/27/2012
PREPARED BY: J. ROUSSEAU

- LEGEND**
- ROAD SIGNS (CODE NO.)
 - REGULATORY & WARNING
 - TRAFFIC SIGNALS
 - PUBLIC BUILDINGS
 - SCHOOLS
 - CHURCHES
 - SURVEY LOCATIONS

CRITICAL SPEED - 85% - - - -
LOWER LIMIT OF 10mph PACE - - - -

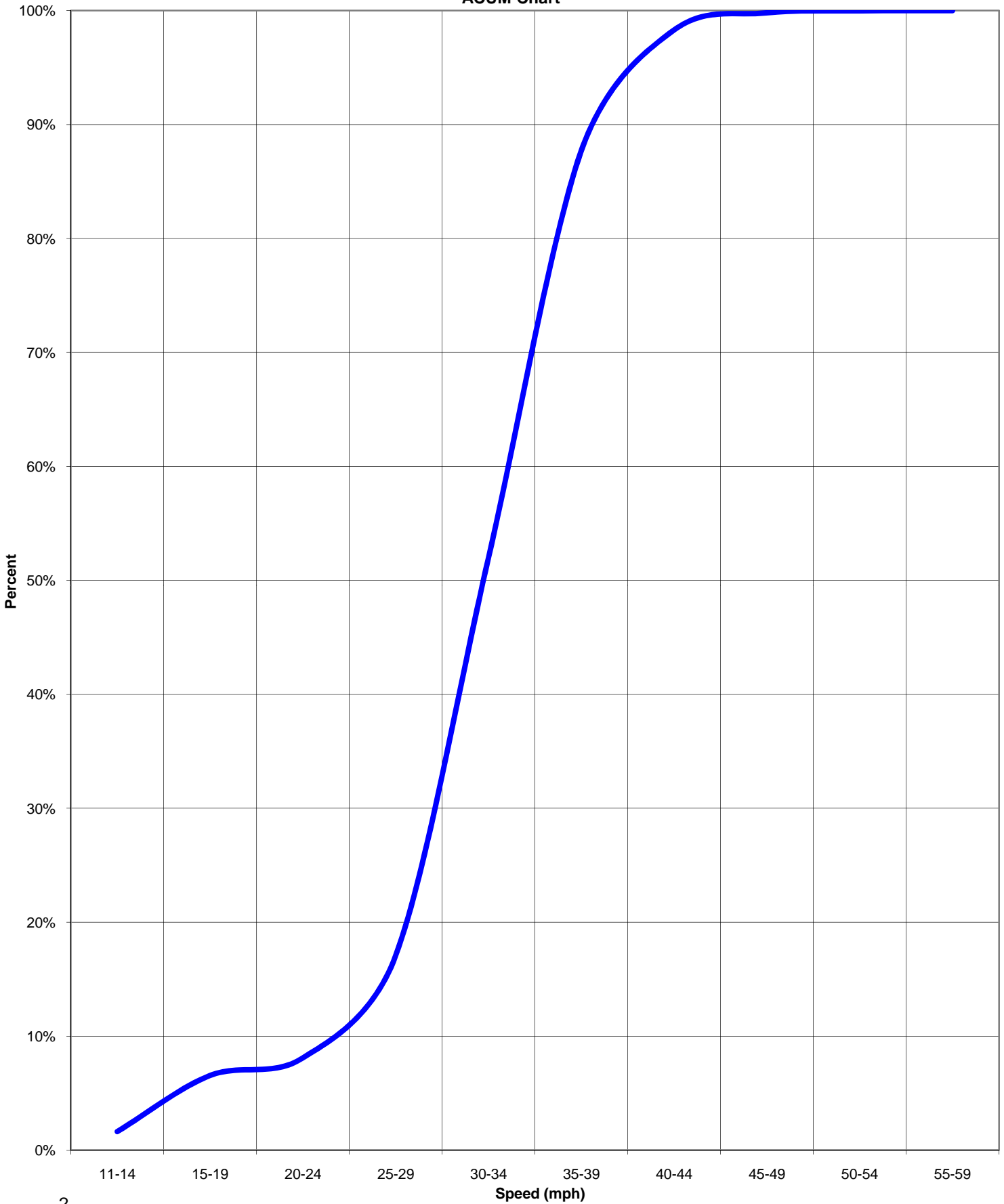
298 North Hope Avenue

Detector Tube - Speed Characteristics

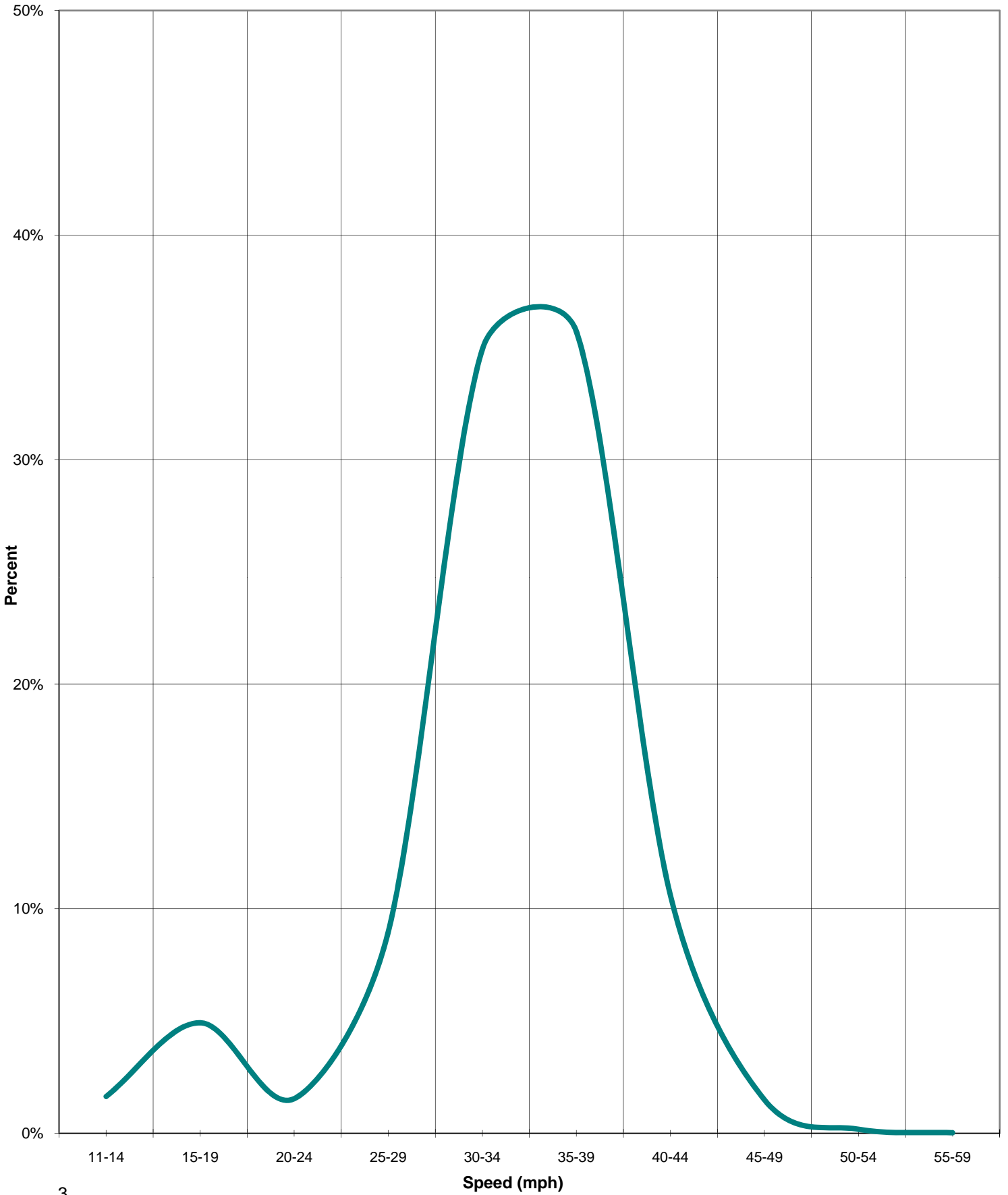
296 North Hope Ave.							Posted Speed is 35 MPH	
1 (mph)	2 ui	3 fi	4 fui	5 % class	6 cumulative %	7 f*ui ²	8 f(ui-u) ²	
Speed Range	Class Midvalue	Frequency						
11-14	12	135	1620	1.6%	1.6%	19440	2624400	
15-19	17	405	6885	4.9%	6.6%	117045	47403225	
20-24	22	127	2794	1.5%	8.1%	61468	7806436	
25-29	27	739	19953	9.0%	17.1%	538731	398122209	
30-34	32	2873	91936	34.9%	52.0%	2941952	8452228096	
35-39	37	2938	108706	35.7%	87.7%	4022122	11816994436	
40-44	42	872	36624	10.6%	98.3%	1538208	1341317376	
45-49	47	123	5781	1.5%	99.8%	271707	33419961	
50-54	52	15	780	0.2%	100.0%	40560	608400	
55-59	56	2	112	0.0%	100.0%	6272	12544	
		8,229	275,191			9,557,505.0	22,100,537,083.0	
$u = f_{ui}/f_i$								
Total Volume		85 Percentile	Mean	Standard Dev.	Median	Skewness Index		
8,229		38.5	33.4	6.6	33.8	0.67		
10 mph Pace is		29	mph to	39	mph	By JRousseau		

296 North Hope Ave

Speed Zone Survey
ACUM Chart



296 North Hope Ave
Speed Zone Survey
Bell Chart

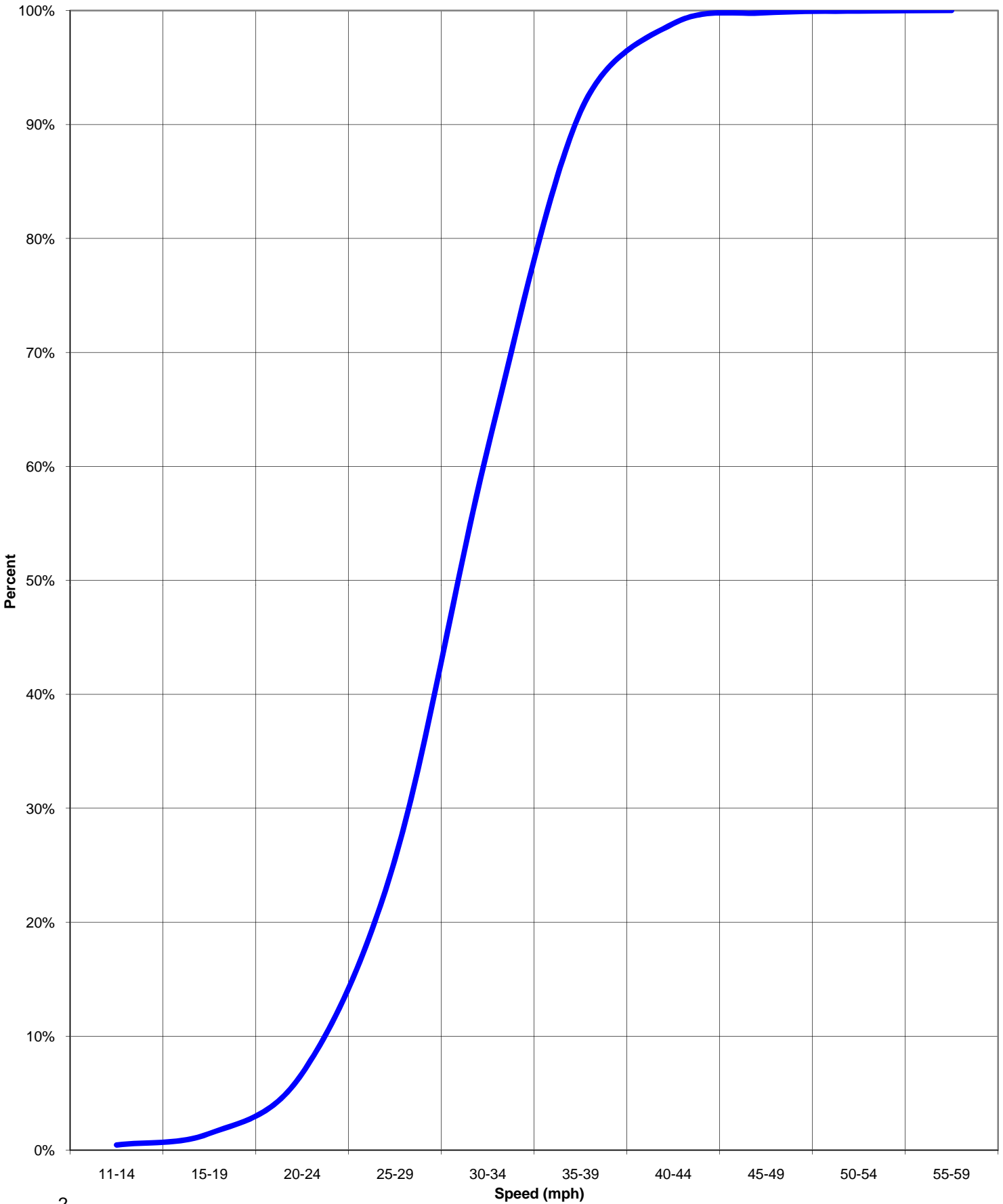


559 Hope Avenue

Detector Tube - Speed Characteristics

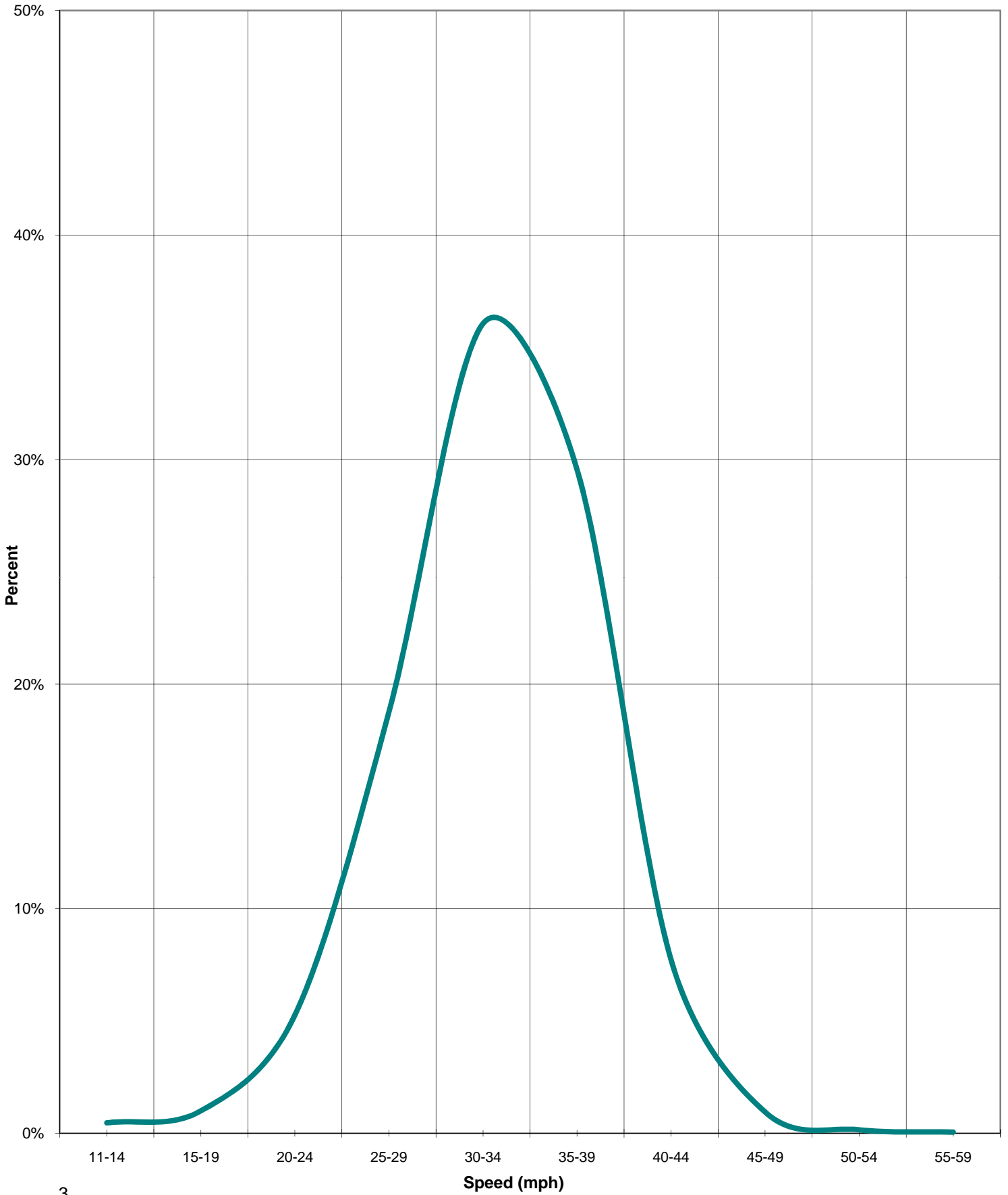
559 North Hope Ave							
							Posted Speed is 35 MPH
1 (mph)	2 ui	3 fi	4 fiui	5 % class	6 cumulative %	7 fi*ui^2	8 f(ui-u)^2
Speed Range	Class Midvalue	Frequency					
11-14	12	27	324	0.5%	0.5%	3888	104976
15-19	17	58	986	1.0%	1.5%	16762	972196
20-24	22	305	6710	5.3%	6.7%	147620	45024100
25-29	27	1087	29349	18.8%	25.5%	792423	861363801
30-34	32	2088	66816	36.1%	61.6%	2138112	4464377856
35-39	37	1712	63344	29.6%	91.1%	2343728	4012462336
40-44	42	447	18774	7.7%	98.8%	788508	352463076
45-49	47	55	2585	0.9%	99.8%	121495	6682225
50-54	52	9	468	0.2%	99.9%	24336	219024
55-59	56	3	168	0.1%	100.0%	9408	28224
		5,791	189,524			6,386,280.0	9,743,697,814.0
$u = fiui/fi$							
Total Volume		85 Percentile	Mean	Standard Dev.	Median	Skewness Index	
5,791		37.5	32.7	5.6	32.5	0.92	
10 mph Pace is		27	mph to	37	mph	By JRousseau	

559 North Hope Ave
Speed Zone Study
ACUM Chart



559 North Hope Ave

Speed Zone Study
Bell Chart



City of Santa Barbara

Study by
John Rousseau

Street: Hope Street N 296
Type: Speed Survey
Box and Date: C8 Feb 2012

Site:
Tuesday, 2/21/2012, 11:00:00 AM -
Thursday, 2/23/2012, 10:00:00 AM

Volume Grand Totals

Average Hourly Volumes			
	Southbound	Northbound	Combined
12:00 AM	4.5	7.5	12.0
1:00 AM	1.0	1.0	2.0
2:00 AM	1.0	1.0	2.0
3:00 AM	0.5	0.5	1.0
4:00 AM	4.5	1.0	5.5
5:00 AM	18.0	1.5	19.5
6:00 AM	48.5	13.5	62.0
7:00 AM	124.0	75.0	199.0
8:00 AM	253.5	158.0	411.5
9:00 AM	145.0	98.0	243.0
10:00 AM	140.0	117.0	257.0
11:00 AM	133.0	133.0	266.0
12:00 PM	135.5	162.5	298.0
1:00 PM	130.0	130.5	260.5
2:00 PM	140.5	188.0	328.5
3:00 PM	186.0	171.5	357.5
4:00 PM	139.5	202.5	342.0
5:00 PM	154.5	223.5	378.0
6:00 PM	101.0	163.5	264.5
7:00 PM	58.5	120.5	179.0
8:00 PM	37.0	88.5	125.5
9:00 PM	28.0	62.0	90.0
10:00 PM	7.5	31.5	39.0
11:00 PM	4.5	10.0	14.5
ADT	1996.0	2161.5	4157.5

Study Grand Totals		
Southbound	Northbound	Combined
3852	4206	8058
47.8 %	52.2 %	

City of Santa Barbara

Study by
John Rousseau

Street: Hope Street N 559
Type: Speed Survey
Box and Date: C3 Feb 2010

Site:
Tuesday, 2/21/2012, 10:00:00 AM -
Thursday, 2/23/2012, 9:00:00 AM

Volume Grand Totals

	Average Hourly Volumes		Combined
	Southbound	Northbound	
12:00 AM	1.0	2.5	3.5
1:00 AM	1.0	2.0	3.0
2:00 AM	0.0	0.5	0.5
3:00 AM	0.5	0.5	1.0
4:00 AM	2.0	1.0	3.0
5:00 AM	8.0	2.5	10.5
6:00 AM	24.0	7.5	31.5
7:00 AM	60.0	46.5	106.5
8:00 AM	197.5	166.5	364.0
9:00 AM	92.0	54.0	146.0
10:00 AM	87.0	63.0	150.0
11:00 AM	75.0	89.5	164.5
12:00 PM	107.5	98.5	206.0
1:00 PM	89.0	78.5	167.5
2:00 PM	106.0	139.0	245.0
3:00 PM	153.0	137.0	290.0
4:00 PM	114.5	138.5	253.0
5:00 PM	104.0	128.5	232.5
6:00 PM	80.0	104.0	184.0
7:00 PM	49.0	70.0	119.0
8:00 PM	29.5	58.0	87.5
9:00 PM	16.0	36.5	52.5
10:00 PM	10.5	22.5	33.0
11:00 PM	3.5	8.5	12.0
ADT	1410.5	1455.5	2866.0

Study Grand Totals		
Southbound	Northbound	Combined
2729	2857	5586
48.9 %	51.1 %	

North Hope - State to Sunset

Segment length in feet	1,837	
Number of collisions =	7	See below.
AADT	4,160	
Time period in years =	2	04/01/2009 - 03/31/2011
Segment Collision rate =	6.62532	ACC/MVM
2009 District 5 Urban 2LN =	1.59	ACC/MVM
2009 Statewide 3 yr 2LN =	1.42	ACC/MVM

Crash Number	CASE ID	STREET 1	STREET 2	DATE	DISTANCE	DIR FROM INT	COLL TYPE
1	4542213	HOPE AVE	STATE ST	12/20/2009	0	Not stated	Side swipe
2	4542225	HOPE AVE	STATE ST	12/21/2009	33	North	Rear end
3	4705986	STATE ST	HOPE AVE	5/14/2010	0	West	Broadside
4	4920800	STATE ST	HOPE AVE	10/7/2010	0	Not stated	Rear end
5	4614475	HOPE AVE	VIA LUCERO	2/24/2010	97	South	Broadside
6	4678494	HOPE AVE	SAN REMO DR	4/21/2010	105	North	Hit object
7	4785141	HOPE AVE	SAN REMO DR	6/4/2010	258	North	Hit object

North Hope - Sunset to Pueblo

Segment length in feet	2,167	
Number of collisions =	1	See below.
AADT	2,870	
Time period in years =	2	04/01/2009 - 03/31/2011
Segment Collision rate =	1.16297	ACC/MVM
2009 District 5 Urban 2LN =	1.59	ACC/MVM
2009 Statewide 3 yr 2LN =	1.42	ACC/MVM

Crash Number	CASE ID	STREET 1	STREET 2	DATE	DISTANCE	DIR FROM INT	COLL TYPE
	1	4385653 HOPE AVE	CALLE CITA	9/7/2009	75	South	Rear end