

To:

Stan Rickard, Director of Public Works

From:

John Johnson, Technical Services Supervisor

Date:

November 21, 2001

Subject:

Request for a Multi-Way Stop at Grove and Elizabeth

At the November 5, 2001 Transportation and Safety Committee meeting Mr. Steven Horvath, 314 W. Grove St. requested a multi-way stop at Elizabeth and Grove. Mr. Horvath was concerned with vehicles leaving the roadway and hitting light poles and fire hydrants. Attached for your review are the traffic analyzer reports and accident reports for the past 2 years.

The analyzer reports show that the majority of the drivers are operating their vehicles safely. There are a small percentage of drivers exceeding 30 MPH and not heeding the posted advisory speed of 20 MPH between Lincoln and Elizabeth and 10 MPH between Elizabeth and West. The Village has posted advance-warning signage with supplementary speed plates to help the driver negotiate the curves. When drivers fail to recognize these warning signs or are under the influence of drugs and alcohol, the signage is not the an issue

The accident reports show two areas of concern. Drivers are not stopping on Grove at Park and drivers are loosing control of their vehicles due to speed and sharp curves on Grove between Elizabeth and West. There were 4 mid block accidents, 1 allegedly driving under the influence of alcohol (left roadway twice), 2 backing into parked vehicles and 1 sideswipe due to snow.

Currently Elizabeth stops at Grove. The traffic volumes at Elizabeth and Grove do not meet the minimum warrant for a multi-way stop. There were no reported accidents at Elizabeth and Grove for the past 2 years.

Based on the above information, I would not recommend converting Elizabeth St. and Grove St. to a multi-way stop. I would recommend installing chevron signs at the curves on Grove St. between Elizabeth and West Rd. to better delineate the roadway. On Grove St. at Park Ave., I would recommend a new product, a highly reflective red strip that is attached to the stop sign post to add more visibility to the stop sign.

cc:

Rick Stoderstrom, Trustee, District 6 Joan DeStephano, Trustee, District 1 Mr. Steven Horvath, 314 W. Grove St. Transportation and Safety Committee

Street: N.B. Elizabeth@Grove

A study of vehicle traffic was conducted with HI-STAR unit number 809. The study was done in the lane on N.B. Elizabeth@Grove in LOMBARD, IL in DUPAGE county. The study began on 11/13/2001 at 11:00 AM and concluded on 11/15/2001 at 11:00 AM, lasting a total of 48 hours. Data was recorded in 60 minute time periods. The total recorded volume of traffic showed 642 vehicles passed through the location with a peak volume of 42 on 11/13/2001 at 05:00 PM and a minimum volume of 0 on 11/14/2001 at 02:00 AM. The AADT Count for this study was 321.

SPEED

Chart 1 lists the values of the speed bins and the total traffic volume for each bin.

Chart 1

to 10	11 to 15	16 to 20	21 to 25	26 to 30	31 to 35	36 to 40	41 to 45	46 to 50	51 to 55	56 to 59	60 to 64	65 to 69	70 to 74	75 >
0	158	392	67	4	1	2	7	0	0	0	0	2	0	1

At least half of the vehicles were traveling in the 16 - 20 mph range or a lower speed. The average speed for all classified vehicles was 16 mph with 2.05 percent exceeding the posted speed of 30 mph. The HI-STAR found 2.05 percent of the total vehicles were traveling in excess of 30 mph. The mode speed for this traffic study was 16 mph and the 85th percentile was 16.36 mph.

CLASSIFICATION

Chart 2 lists the values of the eight classification bins and the total traffic volume accumulated for each bin.

Chart 2

ſ	0	21	28	40	50	60	69	81
-1	to	to	to	to	to	to	to	>
١	20	27	39	49	59	68 -	80	
Ì	599	26	6	3	0	0	0	0

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 625 which represents 98.60 percent of the total classified vehicles. The number of Small Trucks in the study was 6 which represents 0.90 percent of the total classified vehicles. The number of Trucks/Busses in the study was 3 which represents 0.50 percent of the total classified vehicles. The number of Tractor Trailers in the study was 0 which represents 0.00 percent of the total classified vehicles

HEADWAY

During the peak time period, on 11/13/2001 at 05:00 PM the average headway between the vehicles was 83.72 seconds. The slowest traffic period was on 11/14/2001 at 02:00 AM. During this slowest period, the average headway was 3600.0 seconds.

WEATHER

The roadway surface temperature over the period of the study varied between 52 and 76 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.00 percent of the time.

11/15/2001 Page: 1

	HI-Star ID: 809				Begir	n: 11	/13/2	2001	11:0	0 AM	1 E	End:	11/1	5/20	01 11	:00 A	M
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	City: LOMBARD				Post								Cour		12		
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	11/13/2001 [12:00 PM-01:00 PM]	Ō	2	9	2	0	0	0	0	0	0	0	0	0	0	0	13
	11/13/2001 [01:00 PM-02:00 PM]	Ö	3	4	3	1	Ō	1	5	0	0	0	0	1	0	0	18
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	11/13/2001 [04:00 PM-05:00 PM]	Ö	10	23	1	0	ō	0	0	0	Ō	0	Ō	0	Ō	Ō	34
	11/13/2001 [05:00 PM-06:00 PM]	ō	9	31	2	0	0	0	0	Ó	Ó	0	0	0	0	0	42
	11/13/2001 [06:00 PM-07:00 PM]	ō	13	7	1	0	0	0	0	0	0	0	0	0	0	0	21
	11/13/2001 [07:00 PM-08:00 PM]	Ō	5	11	3	1	0	Ö	0	0	0	0	0	0	0	0	20
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	11/13/2001 [09:00 PM-10:00 PM]	0	3	7	0	0	0	0	0	0	0	0	0	0	0	0	10
	11/13/2001 [10:00 PM-11:00 PM]	0	5	3	1	0	0	0	0	0	0	0	0	0	0	0	9
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	11/14/2001 [05:00 AM-06:00 AM]		2	2	0	0	0	0	0	Ó	0	0	. 0	0	0	0	4
	11/14/2001 [06:00 AM-07:00 AM]		3	6	0	0	0	0	0	0	0	0	0	0	0	0	9
	11/14/2001 [07:00 AM-08:00 AM]		7	17	3	Ō	0	0	0	0	0	0	0	0	0	0	27
	11/14/2001 [08:00 AM-09:00 AM]		4	12	2	0	0	0	0	0	0	0	0	0	0	0	18
	11/14/2001 [09:00 AM-10:00 AM]		3	5	2	0	0	0	0	0	0	0	0	0	0	0	10
	11/14/2001 [10:00 AM-11:00 AM]		5	6	0	0	0	0	0	0	0	0	0	0	0	0	11
	11/14/2001 [11:00 AM-12:00 PM]		2	6	3	0	0	0-	0	0	0	0	0	0	0	0	11
	11/14/2001 [12:00 PM-01:00 PM]		3	11	3	1	0	0	0	0	0	0	0	0	0	0	18
	11/14/2001 [01:00 PM-02:00 PM]		1	12	3	0	0	0	0	0	0	0	0	0	0	0	- 16
	11/14/2001 [02:00 PM-03:00 PM]		2	13	3	1	0	0	0	0	0	0	0	1	0	0	20
	11/14/2001 [03:00 PM-04:00 PM]		8	15	5	0	0	0	0	0	0	0	0	0	0	0	28
	11/14/2001 [04:00 PM-05:00 PM]		5	20	2	0	0	0	0	0	0	0	0	0	0	0	27
	11/14/2001 [05:00 PM-06:00 PM]		7	20	4	0	0	0	0	0	0	0	0	0	0	0	31
	11/14/2001 [06:00 PM-07:00 PM]		2	12	1	0	0	0	0	0	0	0	0	0	0	0	15
	11/14/2001 [07:00 PM-08:00 PM]		2	17	3	0	0	0	0	0	0	0	0	0	0	0	22
	11/14/2001 [08:00 PM-09:00 PM]		8	16	0	0	. 0	0	0	0	0	0	0	0	0	0	24
	11/14/2001 [09:00 PM-10:00 PM]	0	4	8	1	0	0	0	0	0	0	0	0	0		0	13
	11/14/2001 [10:00 PM-11:00 PM]	0	1	2	3	0	0	0	0	0	0	0	0	0	0	0	6
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Street: S.B. Elizabeth@Grove

A study of vehicle traffic was conducted with HI-STAR unit number 9245. The study was done in the lane on S.B. Elizabeth@Grove in LOMBARD, IL in DUPAGE county. The study began on 11/13/2001 at 11:00 AM and concluded on 11/15/2001 at 11:00 AM, lasting a total of 48 hours. Data was recorded in 60 minute time periods. The total recorded volume of traffic showed 447 vehicles passed through the location with a peak volume of 26 on 11/13/2001 at 06:00 PM and a minimum volume of 0 on 11/14/2001 at 12:00 AM. The AADT Count for this study was 224.

SPEED

Chart 1 lists the values of the speed bins and the total traffic volume for each bin.

Chart 1

Γ	0	11	16	21	26	31	36	41	46	51	56	60	65	70	75
١	to	to	to	to	to	to	to	to	to	to	to	to	to	to	>
	10	15	20	25	30	35	40	45	50	55	59	64	69	74	
ſ	43	36	243	22	1	0	0	0	0	0_	0	0	0	0	0

At least half of the vehicles were traveling in the 16 - 20 mph range or a lower speed. The average speed for all classified vehicles was 15 mph with 0.00 percent exceeding the posted speed of 30 mph. The HI-STAR found 0.00 percent of the total vehicles were traveling in excess of 30 mph. The mode speed for this traffic study was 16 mph and the 85th percentile was 15.91 mph.

CLASSIFICATION

Chart 2 lists the values of the eight classification bins and the total traffic volume accumulated for each bin.

Chart 2

to	21	28	40	50	60	69	81
	to	to	to	to	to	to	>
318	10	39 14	49 3	59 0	68	80	0

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 328 which represents 95.10 percent of the total classified vehicles. The number of Small Trucks in the study was 14 which represents 4.10 percent of the total classified vehicles. The number of Trucks/Busses in the study was 3 which represents 0.90 percent of the total classified vehicles. The number of Tractor Trailers in the study was 0 which represents 0.00 percent of the total classified vehicles

HEADWAY

During the peak time period, on 11/13/2001 at 06:00 PM the average headway between the vehicles was 133.33 seconds. The slowest traffic period was on 11/14/2001 at 12:00 AM. During this slowest period, the average headway was 3600.0 seconds.

WEATHER

The roadway surface temperature over the period of the study varied between 52 and 72 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.00 percent of the time.

HI-Star ID: 9245				Begiı	n: 11	/13/2	2001	11:0	0 AN					01 11	:00 A	M
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County: DUPAGE				AAD [°]	T Fac	ctor:	1			/	AAD1	Cou	ınt: :	224		
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	to	to	to	to	to	to	to	to	to	to	to	to	to	to	>	
Date & Time Range	10	15	20	25	30	35	40	45	50	55	59	64	69	74		Total
11/13/2001 [11:00 AM-12:00 PM]	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
11/13/2001 [12:00 PM-01:00 PM]	1	1	7	0	0	0	0	0	0	0	0	0	0	0	0	9
11/13/2001 [01:00 PM-02:00 PM]	3	0	7	0	0	0	0	0	0	0	0	0	0	0	0	10
11/13/2001 [02:00 PM-03:00 PM]	2	4	10	2	0	0	0	0	0	0	0	0	0	0	0	18
11/13/2001 [03:00 PM-04:00 PM]	2	1	9	0	0	0	0	0	0	0	0	0	0	, 0	0	12
11/13/2001 [04:00 PM-05:00 PM]	1	3	5	0	0	0	0	0	0	0	0	0	0	0	0	9
11/13/2001 [05:00 PM-06:00 PM]	2	2	7	2	0	0	0	0	0	0	0	0	0	0	0	13
11/13/2001 [06:00 PM-07:00 PM]	9	4	6	0	0	0	0	0	0	0	0	0	0	0	0	19
11/13/2001 [07:00 PM-08:00 PM]	2	0	6	2	0	0	0	0	0	0	0	0	0	0	0	10
11/13/2001 [08:00 PM-09:00 PM]	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
11/13/2001 [09:00 PM-10:00 PM]	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	6 2
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HI-Star ID: 9245 Street: S.B. Elizabeth@G State: IL City: LOMBARD County: DUPAGE	rove		,	Begir Lane Oper Poste AAD	: : EP ed: 3	80		11:0	0 AM	ት F F	Hours Perio Raw	s: 48 d: 60 Cour	:00	47	A 00:	M
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11/15/2001 [05:00 AM-06:00 AM]	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
11/15/2001 [06:00 AM-07:00 AM]	1	0	9	0	0	0	0	0	0	0	0	0	0	0	0	10
11/15/2001 [07:00 AM-08:00 AM]	1	1	14	3	0	0	0	0	0	0	0	0	0	0	0	19
11/15/2001 [08:00 AM-09:00 AM]	1	1	6	1	0	0	0	0	0	0	0	0	0	0	0	· 9
11/15/2001 [09:00 AM-10:00 AM]	0	2	2	2	0	0	0	0	0	0	0	0	0	0	0	6
11/15/2001 [10:00 AM-11:00 AM]	2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	7
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Street: E.B. Grove@Elizabeth

A study of vehicle traffic was conducted with HI-STAR unit number 8230. The study was done in the lane on E.B. Grove@Elizabeth in LOMBARD, IL in DUPAGE county. The study began on 11/13/2001 at 11:00 AM and concluded on 11/15/2001 at 11:00 AM, lasting a total of 48 hours. Data was recorded in 60 minute time periods. The total recorded volume of traffic showed 439 vehicles passed through the location with a peak volume of 35 on 11/14/2001 at 07:00 AM and a minimum volume of 0 on 11/14/2001 at 12:00 AM. The AADT Count for this study was 220.

SPEED

Chart 1 lists the values of the speed bins and the total traffic volume for each bin.

Chart 1

0 to 10	11 to 15	16 to 20	21 to 25	26 to 30	31 to 35	36 to 40	41 to 45	46 to 50	51 to 55	56 to 59	60 to 64	65 to 69	70 to 74	75 >
0	22	72	140	131	44	13	8	2	0	4	1	1	0	0

At least half of the vehicles were traveling in the 21 - 25 mph range or a lower speed. The average speed for all classified vehicles was 24 mph with 16.6 percent exceeding the posted speed of 30 mph. The HI-STAR found 16.6 percent of the total vehicles were traveling in excess of 30 mph. The mode speed for this traffic study was 21 mph and the 85th percentile was 27.33 mph.

CLASSIFICATION

Chart 2 lists the values of the eight classification bins and the total traffic volume accumulated for each bin.

Chart 2

0 to 20	21 to 27	28 to 39	40 to 49	50 to 59	60 to 68	69 to 80	81 >
393	32	8	3	0 .	1	1	0

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 425 which represents 97.00 percent of the total classified vehicles. The number of Small Trucks in the study was 8 which represents 1.80 percent of the total classified vehicles. The number of Trucks/Busses in the study was 3 which represents 0.70 percent of the total classified vehicles. The number of Tractor Trailers in the study was 2 which represents 0.50 percent of the total classified vehicles

HEADWAY

During the peak time period, on 11/14/2001 at 07:00 AM the average headway between the vehicles was 100.0 seconds. The slowest traffic period was on 11/14/2001 at 12:00 AM. During this slowest period, the average headway was 3600.0 seconds.

WEATHER

The roadway surface temperature over the period of the study varied between 50 and 68 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.00 percent of the time.

11/15/2001 Page: 1

HI-Star ID: 8230 Street: E.B. Grove@Eliza State: IL City: LOMBARD County: DUPAGE	beth			Begir Lane Oper Poste AAD	: : EP ed: 3	0		11:0	0 AM	} F	Hours Perio Raw (11/1 s: 48 d: 60 Cour Cou	:00) it: 43	39	1:00 A	AM .
NC97 - mph Date & Time Range	0 to 10	11 to 15	16 to 20	21 to 25	26 to 30	31 to 35	36 to 40	41 to 45	46 to 50	51 to 55	56 to 59	60 to 64	65 to 69	70 to 74	75 >	Total
11/13/2001 [11:00 AM-12:00 PM]	0	0	1	3	3	0	0	0	0	0	0	0	0	0	0	7
11/13/2001 [12:00 PM-01:00 PM]	0	0	0	5	5	2	1	0	0	0	0	0	0	0	0	13
11/13/2001 [01:00 PM-02:00 PM]	0	0	3	2	3	1	0	0	0	0	0	0	0	0	0	9
11/13/2001 [02:00 PM-03:00 PM]	0	0	3	7	5	0	0	1	0	0	0	0	0	0	0	16 24
11/13/2001 [03:00 PM-04:00 PM]	0	0	6	9	5	3	0	0	1	0	0	0	0	0	0	16
11/13/2001 [04:00 PM-05:00 PM]	0	. 0	1	6	5	3	0	0	0	0	0	1	0	0	_	16
11/13/2001 [05:00 PM-06:00 PM]	0	0	6	5	3	1	0	0	0	0	1	0	0	0	0	6
11/13/2001 [06:00 PM-07:00 PM]	0	1	1	2	2	0	0	0	0	0	0	0	0	0	0	9
11/13/2001 [07:00 PM-08:00 PM]	0	0	2	2	2	1	0	2	0	0	0	0	0	_	0	4
11/13/2001 [08:00 PM-09:00 PM]	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	3
11/13/2001 [09:00 PM-10:00 PM]	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	4
11/13/2001 [10:00 PM-11:00 PM]	0	2	2	1	0	0	0	0	0	0	0	0	0	0	0	1
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11/14/2001 [03:00 AM-04:00 /kM]		0	0	1	0	0	0	ō	ō	0	ō	. 0	0	Ō	0	1
11/14/2001 [05:00 AM-06:00 AM]		0	0	Ö	2	Ö	0	Ō	0	ō	0	ō	0	ō	0	2
11/14/2001 [06:00 AM-07:00 AM]		2	2	1	0	1	ō	0	ō	ō	ō	Ō	ō	ō	0	6
11/14/2001 [07:00 AM-08:00 AM]		0	4	12	14	2	2	Ō	0	0	1	0	0	0	0	35
11/14/2001 [08:00 AM-09:00 AM]		Ō	1	4	10	1	1	1	Ó	0	0	0	0	0	0	18
11/14/2001 [09:00 AM-10:00 AM]		1	3	8	1	0	0	0	0	0	1	0	0	0	0	14
11/14/2001 [10:00 AM-11:00 AM]	_	4	1	3	2	1	0	0	0	0	0	0	0	0	0	11
11/14/2001 [11:00 AM-12:00 PM]		0	0	2	4	0	0	0	0	0	0	0	0	0	0	6
11/14/2001 [12:00 PM-01:00 PM]		2	4	5	2	0	0	0	0	0	0	0	0	0	0	13
11/14/2001 [01:00 PM-02:00 PM]		1	7	8	1	0	1	0	0	0	0	0	0	0	0	18
11/14/2001 [02:00 PM-03:00 PM]		0	1	5	1	5	2	0	0	0	0	0	0	0	0	14
11/14/2001 [03:00 PM-04:00 PM]		1	4	4	8	1	1	0	0	0	0	0	0	0	0	19
11/14/2001 [04:00 PM-05:00 PM]		2	2	9	7	3	0	0	0	0	0	0	0	0	0	_ 23
11/14/2001 [05:00 PM-06:00 PM]		0	4	5	3	0	0	0	0	0	0	0	0	0	0	12
11/14/2001 [06:00 PM-07:00 PM]		1	2	7	4	2	0	0	0	0	0	0	1	0		17
11/14/2001 [07:00 PM-08:00 PM]	0	0	1	4	3	0	0	0	0	0	0					8
11/14/2001 [08:00 PM-09:00 PM]		1	1	1	0	1	1	0	0	0	0					5
11/14/2001 [09:00 PM-10:00 PM]			1	0	0	0	1	. 0		0	0					2
11/14/2001 [10:00 PM-11:00 PM]	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	4

HI-Star ID: 8230 Street: E.B. Grove@Eliza State: IL City: LOMBARD County: DUPAGE	beth			Begir Lane: Oper: Poste AAD	: : EP ed: 3	60		11:0	O AM	F F	Hours Perio Raw (s: 48 d: 60 Cour	:00	39	I:00 A	νM
NC97 - mph	0	11	16	21	26	31	36	41	46	51	56	60	65	70	75	
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	>	
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Duny volume.		1		80)	17	,		1	(0	()	231
11/15/2001 [12:00 AM-01:00 AM]	0	0	0	0	1	0	0	0	0	0	0	. 0	0	0	0	1
11/15/2001 [01:00 AM-02:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2001 [02:00 AM-03:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2001 [03:00 AM-04:00 AM]	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
11/15/2001 [04:00 AM-05:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2001 [05:00 AM-06:00 AM]	0	1	0	0	0	1	0	0	0	0	0	0	- 0	0	0	2
11/15/2001 [06:00 AM-07:00 AM]	0	0	2	1	5	2	0	0	1	0	0	0	0	0	0	11
11/15/2001 [07:00 AM-08:00 AM]	0	1	3	5	7	3	0	1	0	0	1	0	0	0	0	21
11/15/2001 [08:00 AM-09:00 AM]	0	1	3	7	11	1	1	1	0	0	0	0	0	0	0	25
11/15/2001 [09:00 AM-10:00 AM]	. 0	1	0	2	1	4	0	1	0	0	0	0	0	0	0	9
11/15/2001 [10:00 AM-11:00 AM]	· 0	0	1	2	2	3	0	1	0	0	0	0	0	0	0	9
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		•	4	18	3	14	1	•	4	(0		0		0	79
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		2	2	140)	44	1		8	(0		1	ı	0	438
Report Percentages:	0.00	% - 5.02	16.44° % 3	% 2 31.969	9.919 % 1	% 0.059	2.97 ⁹	% 1.83	0.46 %	% 0.00	0.91 %	% 0.23	0.23 %	% 0.00	0.00% %	%

Street: W.B. Grove@Elizabeth

A study of vehicle traffic was conducted with HI-STAR unit number 811. The study was done in the lane on W.B. Grove@Elizabeth in LOMBARD, IL in DUPAGE county. The study began on 11/13/2001 at 11:00 AM and concluded on 11/15/2001 at 11:00 AM, lasting a total of 48 hours. Data was recorded in 60 minute time periods. The total recorded volume of traffic showed 618 vehicles passed through the location with a peak volume of 32 on 11/13/2001 at 04:00 PM and a minimum volume of 0 on 11/14/2001 at 03:00 AM. The AADT Count for this study was 309.

SPEED

Chart 1 lists the values of the speed bins and the total traffic volume for each bin.

Chart 1

0 to 10	11 to 15	16 to 20	21 to 25	26 to 30	31 to 35	36 to 40	41 to 45	46 to 50	51 to 55	56 to 59	60 to 64	65 to 69	70 to 74	75 >
0	102	210	171	62	21	16	5	9	4	4	6	1	3	1

At least half of the vehicles were traveling in the 16 - 20 mph range or a lower speed. The average speed for all classified vehicles was 21 mph with 11.3 percent exceeding the posted speed of 30 mph. The HI-STAR found 11.3 percent of the total vehicles were traveling in excess of 30 mph. The mode speed for this traffic study was 16 mph and the 85th percentile was 24.71 mph.

CLASSIFICATION

Chart 2 lists the values of the eight classification bins and the total traffic volume accumulated for each

Chart 2

0	21	28	40	50	60	69	81
to	to	to	ťo	to	to	`to	>
20	27	39	49	59	68	80	
564	35	13	2	0	1	0	0

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 599 which represents 97.40 percent of the total classified vehicles. The number of Small Trucks in the study was 13 which represents 2.10 percent of the total classified vehicles. The number of Trucks/Busses in the study was 2 which represents 0.30 percent of the total classified vehicles. The number of Tractor Trailers in the study was 1 which represents 0.20 percent of the total classified vehicles

HEADWAY

During the peak time period, on 11/13/2001 at 04:00 PM the average headway between the vehicles was 109.09 seconds. The slowest traffic period was on 11/14/2001 at 03:00 AM. During this slowest period, the average headway was 3600.0 seconds.

WEATHER

The roadway surface temperature over the period of the study varied between 52 and 72 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.00 percent of the time.

11/15/2001 Page: 1

Street: W.B. Grove@Elizabeth State: IL City: LOMBARD					Begin: 11/13/2001 11 Lane: Oper: EP Posted: 30 AADT Factor: 1						1:00 AM End: 11/15/2001 11:00 AM Hours: 48:00 Period: 60 Raw Count: 618 AADT Count: 309						
NC97 - mph Date & Time Range	0 to 10	11 to 15	16 to 20	21 to 25	26 to 30	31 to 35	36 to 40	41 to 45	46 to 50	51 to 55	56 to 59	60 to 64	65 to 69	70 to 74	75 >	Total	
11/13/2001 [11:00 AM-12:00 PM] 11/13/2001 [12:00 PM-01:00 PM] 11/13/2001 [01:00 PM-02:00 PM] 11/13/2001 [02:00 PM-03:00 PM] 11/13/2001 [03:00 PM-04:00 PM] 11/13/2001 [04:00 PM-05:00 PM] 11/13/2001 [05:00 PM-06:00 PM] 11/13/2001 [06:00 PM-07:00 PM] 11/13/2001 [07:00 PM-08:00 PM] 11/13/2001 [08:00 PM-09:00 PM] 11/13/2001 [09:00 PM-10:00 PM] 11/13/2001 [10:00 PM-11:00 PM] 11/13/2001 [11:00 PM-12:00 AM]	0 0 0 0 0 0 0 0	3 1 10 7 5 5 1 3 1 9 2	2 3 8 13 15 7 10 9 7 6 0	4 3 4 6 6 7 10 11 8 3 2 6 0	4 4 1 0 1 5 4 0 1 2 3 2	0 1 2 1 1 0 4 0 1 0	2 0 1 0 0 1 0 1 0 0	1 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 1 0 0 1 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 1 0 0	0 0 0 0 0 0 0 0 0 0 0 0	16 12 13 25 29 32 31 23 24 13 24 11 2	
Daily Totals:	C) 49	84 9	4 70	27)	, 12		5 ·	1	3	0	1	2	0	1 1	255	
11/14/2001 [12:00 AM-01:00 AM] 11/14/2001 [01:00 AM-02:00 AM] 11/14/2001 [02:00 AM-03:00 AM] 11/14/2001 [03:00 AM-04:00 AM] 11/14/2001 [04:00 AM-05:00 AM] 11/14/2001 [05:00 AM-06:00 AM] 11/14/2001 [06:00 AM-07:00 AM] 11/14/2001 [07:00 AM-08:00 AM] 11/14/2001 [08:00 AM-09:00 AM] 11/14/2001 [09:00 AM-10:00 AM] 11/14/2001 [10:00 AM-11:00 AM] 11/14/2001 [11:00 AM-12:00 PM] 11/14/2001 [12:00 PM-01:00 PM] 11/14/2001 [01:00 PM-02:00 PM] 11/14/2001 [02:00 PM-03:00 PM] 11/14/2001 [03:00 PM-04:00 PM] 11/14/2001 [04:00 PM-05:00 PM] 11/14/2001 [05:00 PM-06:00 PM] 11/14/2001 [06:00 PM-07:00 PM] 11/14/2001 [06:00 PM-07:00 PM] 11/14/2001 [07:00 PM-08:00 PM] 11/14/2001 [07:00 PM-08:00 PM] 11/14/2001 [08:00 PM-09:00 PM] 11/14/2001 [08:00 PM-09:00 PM]		0 0 1 0 0 1 1 2 1 0 0 6 4 0 1 2 2 1 2 2 2 3 3 3 4 3 3 4 4 3 3 3 4 4 3 3 3 4 4 3 3 3 4 3 3 3 3 4 4 3 3 3 3 4 3 3 3 3 3 3 4 3	1 3 0 0 0 1 1 6 10 2 1 4 4 6 4 3 4 4 4 10 7 10 4 10 5	0 1 1 0 0 0 9 4 3 1 2 3 1 4 7 6 11 6 1 0 3 3	1 0 0 0 0 0 0 1 2 0 0 0 2 2 3 2 1 1 0 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 1 1 0 0 0 0 1 0 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 11 0 0 0 0 0 0 1 1 1 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 5 2 0 2 4 8 26 11 14 9 5 14 16 24 25 20 11 13	

Page: 1

HI-Star ID: 811 Street: W.B. Grove@Eliza State: IL City: LOMBARD County: DUPAGE	abeth			Lane Oper Poste	n: 11 : : EP ed: 3 T Fac	0		11:0	0 AN	F F	Hours Perio Raw (s: 48 d: 60 Cour		18	:00 /	AM
NC97 - mph	0	11	16	21	26	31	36	41	46	51	56	60	65	70	75	
Date & Time Range	to 10	to 15	to 20	to 25	to 30	to 35	to 40	to 45	to 50	to 55	to 59	to 64	to 69	to 74	۸	Total
11/14/2001 [11:00 PM-12:00 AM]	0	1	6	1	1	0	0	0	0	0	0	0	0	0	0	9
Daily Totals: 0			100 7	3 65	19 5	, ε	§ }		3	5	2	2	4	1	1	l 258
11/15/2001 [12:00 AM-01:00 AM]	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	4
11/15/2001 [01:00 AM-02:00 AM]	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	3
11/15/2001 [02:00 AM-03:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2001 [03:00 AM-04:00 AM]	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	. 1
11/15/2001 [04:00 AM-05:00 AM]	0	0	0	1	0	0	0	0	. 0	0	0	0	. 0	0	0	1
11/15/2001 [05:00 AM-06:00 AM]	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	4
11/15/2001 [06:00 AM-07:00 AM]	0	3	3	3	2	0	0	1	0	0	0	0	0	0	0	12
11/15/2001 [07:00 AM-08:00 AM]	0	4	9	10	6	2	0	0	0	1	0	0	0	0	0	32
11/15/2001 [08:00 AM-09:00 AM]	0	5	4	4	2	0	0	0	0	0	0	0	0	0	0	15
11/15/2001 [09:00 AM-10:00 AM]	0	0	3	6	2	1	2	0	0	1	· 1	0	0	1	0	17
11/15/2001 [10:00 AM-11:00 AM]	0	1	3	7	2	0	0	, . 0	0	0	0	0	0	0	0	13
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Report Percentages:	0.009	% 3 6.59	34.15 % 2	% 1 27.80°	0.089 %	% 3.419	2.60° %	% 0.81	1.46 %	% 0.65	0.65 %	% 0.98	0.16 %	% 0.49	0.16 %	%

In light of the increasing vehicle speeding and accident activity, we the people of Grove and Elizabeth streets are strongly urging the City of Lombard to install two more stop signs at the Grove and Elizabeth street intersection to make it a controlled intersection. We are also recommending more warning signage along Grove to reduce speed and any other methods to reduce the excess speeding and increase the overall safety of Grove and Elizabeth streets.

Signature	Address
End C. Harrer	320 W. GROVE
Strym	314 W, GROVE
Elise Howath	314 W Grove J.
Marie Croni	350 M. Gure St.
White Sport	3360 W. Cohove
Robert Edwarch	348W Brove
Virginia E. Fisher	360 W. Grove St.
Bur that	370 WI GROVE ST
Hun I	380 W. GROVE SI
Thung the themen	375 W. GROVE
James R. Lald	365 W. COROVE.
Her Delin	325 W. G-100e
Johns Sandi Kreml	307 W. Garre S.
Jean Hamilton	88 N. Colization
	$oldsymbol{\mathcal{U}}$

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Signature	Address
Synthenses	80 N. ElizABETH
DTRyan	93 N Elizabeth
May Hennech	11347 Elegath St
John J. Sinchi	11341 Elizabeth St.
	
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