



To: Stan Rickard, Director of Public Works

From: John Johnson, Technical Services Supervisor *JJ*

Date: December 20, 2001

Subject: 17<sup>th</sup> St. and 18<sup>th</sup> St. Speed Study

Speed limit 25 MPH signs were installed on November 20, 2001 for 17<sup>th</sup> St., 18<sup>th</sup> St., LaLonde Ave. and 16<sup>th</sup> St. Attached for your review are traffic analyzer reports dated September 11, 2001 and November 27, 2001. Please note: traffic data was not collected for LaLonde and 16<sup>th</sup> St. due to the similar characteristics of the neighborhoods.

Following is the comparison before and after speed limit 25 MPH sign installations:

	EB 17 <sup>th</sup> St. 9/11/2001	EB 17 <sup>th</sup> St. 11/27/2001	WB 17 <sup>th</sup> St. 9/11/2001	WB 17 <sup>th</sup> St. 11/27/2001	EB 18 <sup>th</sup> St. 11/27/2001	WB 18 <sup>th</sup> St. 11/27/2001
85 <sup>th</sup> Percentile Speed in MPH's	33.80	30.16	31.08	31.04	32.30	34.79

Following are the guidelines for establishing speed limits:

December 2000

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Section 2B.11 Speed Limit Sign (R2-1)

**Standard:**

**After an engineering study has been made in accordance with established traffic engineering practices, the Speed Limit (R1-1) sign shall display the limit established by law, ordinance, regulation, or as adopted by the authorized agency. The speed limits shown shall be in multiples of 5 mph.**

**Guidance:**

When a speed limit is to be posted, it should be the 85th-percentile speed of free-flowing

traffic, rounded up to the nearest 5 mph increment.  
Option:

Other factors that may be considered when establishing speed limits are the following:

A. Road characteristics, shoulder condition, grade, alignment, and sight distance;

B. The pace speed;

C. Roadside development and environment;

D. Parking practices and pedestrian activity; and

E. Reported crash experience for at least a 12-month period.

The 85<sup>th</sup> percentile speed did lower on 17<sup>th</sup> St. after the installation of 25 MPH speed limit signs. Taking into consideration the allowance for parking on the street a 5% reduction can be applied to the revised 85<sup>th</sup> percentile. The revised 85<sup>th</sup> percentile for eastbound is 28.66 MPH and 29.53 MPH for westbound traffic. There are no other deficiencies to warrant additional reduction to the 85<sup>th</sup> percentile for 17<sup>th</sup> St.

18<sup>th</sup> St. did not have a speed count prior to the posting of 25 MPH. Taking into consideration the full length of 18<sup>th</sup> St., a 5% reduction to the 85<sup>th</sup> percentile can be applied for pedestrian traffic in the street due to the fact that there are no sidewalks for a portion of the roadway. Parking is not prohibited on 18<sup>th</sup> St. so an additional 5% reduction to the 85<sup>th</sup> percentile can be applied. The revised 85<sup>th</sup> percentile for 18<sup>th</sup> St. is 29.07 MPH for eastbound and 31.32 for westbound traffic.

On the basis of the above information and applying the standard practices outlined above, I would not recommend reducing the speed limit to 25 MPH on 17<sup>th</sup> St., LaLonde Ave., 18<sup>th</sup> St. and 16<sup>th</sup> Pl.

cc: Rick Soderstrom, Trustee, District 6  
Karen Koenig, Trustee, District 3  
Transportation and Safety Committee

**Nu-Metrics Traffic Analyzer Study  
Computer Generated Summary Report  
City: LOMBARD  
Street: E.B.17th bet 16th&16th**

A study of vehicle traffic was conducted with HI-STAR unit number 9759. The study was done in the lane on E.B.17th bet 16th&16th in LOMBARD, IL in DUPAGE county. The study began on 11/27/2001 at 11:00 AM and concluded on 11/29/2001 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 1,166 vehicles passed through the location with a peak volume of 71 on 11/28/2001 at 07:00 AM and a minimum volume of 0 on 11/28/2001 at 02:00 AM. The AADT Count for this study was 583.

**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 >
23	3	56	186	486	320	67	16	4	0	2	0	0	0	0

At least half of the vehicles were traveling in the 26 - 30 mph range or a lower speed. The average speed for all classified vehicles was 27 mph with 76.9 percent exceeding the posted speed of 25 mph. The HI-STAR found 35.1 percent of the total vehicles were traveling in excess of 30 mph. The mode speed for this traffic study was 26 mph and the 85th percentile was 30.16 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 >
1063	10	60	20	6	2	2	0

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 1,073 which represents 92.30 percent of the total classified vehicles. The number of Small Trucks in the study was 60 which represents 5.20 percent of the total classified vehicles. The number of Trucks/Busses in the study was 20 which represents 1.70 percent of the total classified vehicles. The number of Tractor Trailers in the study was 10 which represents 0.90 percent of the total classified vehicles.

**HEADWAY**

During the peak time period, on 11/28/2001 at 07:00 AM the average headway between the vehicles was 50.0 seconds. The slowest traffic period was on 11/28/2001 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 42 and 52 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.00 percent of the time.

## Time/Speed Report

HI-Star ID: 9759 Street: E.B.17th bet 16th&16th State: IL City: LOMBARD County: DUPAGE	Begin: 11/27/2001 11:00 AM Lane: Oper: EP Posted: 25 AADT Factor: 1	End: 11/29/2001 11:00 AM Hours: 48:00 Period: 60 Raw Count: 1166 AADT Count: 583
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NC90A - mph	0	11	16	21	26	31	36	41	46	51	56	60	65	70	75	
Date & Time Range	to	to	to	to	to	to	to	to	to	to	to	to	to	to	>	Total
	10	15	20	25	30	35	40	45	50	55	59	64	69	74		
11/27/2001 [11:00 AM-12:00 PM]	10	0	2	6	4	1	0	0	0	0	0	0	0	0	0	23
11/27/2001 [12:00 PM-01:00 PM]	0	0	0	2	13	9	5	0	0	0	0	0	0	0	0	29
11/27/2001 [01:00 PM-02:00 PM]	0	0	1	2	11	9	1	0	0	0	0	0	0	0	0	24
11/27/2001 [02:00 PM-03:00 PM]	1	0	0	5	17	13	6	3	0	0	0	0	0	0	0	45
11/27/2001 [03:00 PM-04:00 PM]	0	0	1	3	15	17	5	1	0	0	0	0	0	0	0	42
11/27/2001 [04:00 PM-05:00 PM]	0	0	1	6	10	16	6	4	1	0	0	0	0	0	0	44
11/27/2001 [05:00 PM-06:00 PM]	1	0	4	10	15	10	4	0	0	0	0	0	0	0	0	44
11/27/2001 [06:00 PM-07:00 PM]	0	0	3	5	18	9	1	0	0	0	0	0	0	0	0	36
11/27/2001 [07:00 PM-08:00 PM]	1	0	1	4	9	5	1	0	0	0	0	0	0	0	0	21
11/27/2001 [08:00 PM-09:00 PM]	0	0	1	6	10	8	1	0	0	0	0	0	0	0	0	26
11/27/2001 [09:00 PM-10:00 PM]	0	0	0	0	10	5	1	0	0	0	0	0	0	0	0	16
11/27/2001 [10:00 PM-11:00 PM]	0	0	2	2	5	7	0	0	0	0	0	0	0	0	0	16
11/27/2001 [11:00 PM-12:00 AM]	0	0	0	1	3	4	0	0	0	0	0	0	0	0	0	8
Daily Totals:																
	13		16		140		31		1		0		0		0	
		0		52		113		8		0		0		0		374
11/28/2001 [12:00 AM-01:00 AM]	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	3
11/28/2001 [01:00 AM-02:00 AM]	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	2
11/28/2001 [02:00 AM-03:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/28/2001 [03:00 AM-04:00 AM]	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2
11/28/2001 [04:00 AM-05:00 AM]	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
11/28/2001 [05:00 AM-06:00 AM]	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
11/28/2001 [06:00 AM-07:00 AM]	1	0	1	2	3	1	1	0	0	0	0	0	0	0	0	9
11/28/2001 [07:00 AM-08:00 AM]	1	0	0	1	30	28	8	3	0	0	0	0	0	0	0	71
11/28/2001 [08:00 AM-09:00 AM]	0	0	1	8	12	5	0	0	0	0	0	0	0	0	0	26
11/28/2001 [09:00 AM-10:00 AM]	1	0	0	11	17	10	1	0	0	0	0	0	0	0	0	40
11/28/2001 [10:00 AM-11:00 AM]	2	0	2	8	15	13	2	0	1	0	0	0	0	0	0	43
11/28/2001 [11:00 AM-12:00 PM]	1	0	10	25	17	3	0	0	0	0	0	0	0	0	0	56
11/28/2001 [12:00 PM-01:00 PM]	2	0	4	13	23	3	0	0	0	0	0	0	0	0	0	45
11/28/2001 [01:00 PM-02:00 PM]	1	0	7	6	11	7	1	1	0	0	1	0	0	0	0	35
11/28/2001 [02:00 PM-03:00 PM]	0	1	1	7	13	21	1	0	0	0	0	0	0	0	0	44
11/28/2001 [03:00 PM-04:00 PM]	0	1	1	7	17	7	5	0	0	0	0	0	0	0	0	38
11/28/2001 [04:00 PM-05:00 PM]	0	0	1	2	21	8	7	0	0	0	0	0	0	0	0	39
11/28/2001 [05:00 PM-06:00 PM]	1	0	2	5	23	14	2	0	0	0	1	0	0	0	0	48
11/28/2001 [06:00 PM-07:00 PM]	0	0	1	5	19	15	2	1	1	0	0	0	0	0	0	44
11/28/2001 [07:00 PM-08:00 PM]	0	0	3	8	19	1	1	0	0	0	0	0	0	0	0	32
11/28/2001 [08:00 PM-09:00 PM]	0	0	0	4	12	2	0	0	0	0	0	0	0	0	0	18
11/28/2001 [09:00 PM-10:00 PM]	0	1	1	5	11	3	0	0	0	0	0	0	0	0	0	21
11/28/2001 [10:00 PM-11:00 PM]	0	0	0	3	4	5	0	0	0	0	0	0	0	0	0	12

## Time/Speed Report

HI-Star ID: 9759 Street: E.B.17th bet 16th&16th State: IL City: LOMBARD County: DUPAGE	Begin: 11/27/2001 11:00 AM Lane: Oper: EP Posted: 25 AADT Factor: 1	End: 11/29/2001 11:00 AM Hours: 48:00 Period: 60 Raw Count: 1166 AADT Count: 583
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NC90A - mph	0	11	16	21	26	31	36	41	46	51	56	60	65	70	75	
Date & Time Range	to	to	to	to	to	to	to	to	to	to	to	to	to	to	>	Total
	10	15	20	25	30	35	40	45	50	55	59	64	69	74		

11/28/2001 [11:00 PM-12:00 AM]	0	0	1	0	2	2	0	0	0	0	0	0	0	0	0	5
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Daily Totals:	10		36		271		31		2		2		0		0	636
		3		124		152		5		0		0		0		

11/29/2001 [12:00 AM-01:00 AM]	0	0	0	0	3	1	1	0	0	0	0	0	0	0	0	5
11/29/2001 [01:00 AM-02:00 AM]	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
11/29/2001 [02:00 AM-03:00 AM]	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2
11/29/2001 [03:00 AM-04:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/29/2001 [04:00 AM-05:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/29/2001 [05:00 AM-06:00 AM]	0	0	0	0	2	4	0	0	0	0	0	0	0	0	0	6
11/29/2001 [06:00 AM-07:00 AM]	0	0	3	0	1	3	0	0	0	0	0	0	0	0	0	7
11/29/2001 [07:00 AM-08:00 AM]	0	0	1	2	34	29	2	1	0	0	0	0	0	0	0	69
11/29/2001 [08:00 AM-09:00 AM]	0	0	0	7	9	4	0	2	0	0	0	0	0	0	0	22
11/29/2001 [09:00 AM-10:00 AM]	0	0	0	1	7	8	2	0	0	0	0	0	0	0	0	18
11/29/2001 [10:00 AM-11:00 AM]	0	0	0	0	19	4	0	0	0	0	0	0	0	0	0	23

Daily Totals:	0		4		75		5		1		0		0		0	153
		0		10		55		3		0		0		0		

Report Totals:	23		56		486		67		4		2		0		0	1163
		3		186		320		16		0		0		0		

Report Percentages:	1.98%	4.82%	41.79%	5.76%	0.34%	0.17%	0.00%	0.00%
	0.26%	15.99%	27.52%	1.38%	0.00%	0.00%	0.00%	

### Average Speed by Class Report

HI-Star ID: 9759	Begin: 11/27/2001 11:00 AM	End: 11/29/2001 11:00 AM
Street: E.B.17th bet 16th&16th	Lane:	Hours: 48:00
State: IL	Oper: EP	Period: 60
City: LOMBARD	Posted: 25	Raw Count: 1166
County: DUPAGE	AADT Factor: 1	AADT Count: 583

NC90A - Feet	0	21	28	40	50	60	69	81	
Date & Time Range	to	to	to	to	to	to	to	>	Avg Speed
	20	27	39	49	59	68	80		
11/27/2001 [11:00 AM-12:00 PM]	16.68	0.00	26.00	0.00	0.00	0.00	0.00	0.00	17 mph
11/27/2001 [12:00 PM-01:00 PM]	29.04	0.00	26.00	0.00	0.00	0.00	0.00	0.00	29 mph
11/27/2001 [01:00 PM-02:00 PM]	27.19	0.00	31.00	31.00	0.00	0.00	26.00	0.00	27 mph
11/27/2001 [02:00 PM-03:00 PM]	29.15	0.00	26.00	26.00	0.00	0.00	0.00	0.00	29 mph
11/27/2001 [03:00 PM-04:00 PM]	28.93	31.00	0.00	0.00	0.00	0.00	0.00	0.00	29 mph
11/27/2001 [04:00 PM-05:00 PM]	30.02	0.00	31.00	31.00	0.00	0.00	0.00	0.00	30 mph
11/27/2001 [05:00 PM-06:00 PM]	25.33	33.50	26.00	23.50	0.00	0.00	0.00	0.00	26 mph
11/27/2001 [06:00 PM-07:00 PM]	25.71	0.00	31.00	31.00	0.00	0.00	0.00	0.00	26 mph
11/27/2001 [07:00 PM-08:00 PM]	25.16	0.00	28.50	0.00	0.00	0.00	0.00	0.00	25 mph
11/27/2001 [08:00 PM-09:00 PM]	26.68	0.00	24.75	0.00	0.00	0.00	0.00	0.00	26 mph
11/27/2001 [09:00 PM-10:00 PM]	28.00	0.00	31.00	0.00	0.00	0.00	0.00	0.00	28 mph
11/27/2001 [10:00 PM-11:00 PM]	26.33	0.00	26.00	0.00	0.00	0.00	0.00	0.00	26 mph
11/27/2001 [11:00 PM-12:00 AM]	27.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28 mph
11/28/2001 [12:00 AM-01:00 AM]	21.00	0.00	21.00	0.00	0.00	0.00	0.00	0.00	21 mph
11/28/2001 [01:00 AM-02:00 AM]	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26 mph
11/28/2001 [02:00 AM-03:00 AM]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0 mph
11/28/2001 [03:00 AM-04:00 AM]	31.00	0.00	26.00	0.00	0.00	0.00	0.00	0.00	28 mph
11/28/2001 [04:00 AM-05:00 AM]	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26 mph
11/28/2001 [05:00 AM-06:00 AM]	0.00	0.00	31.00	0.00	0.00	0.00	0.00	0.00	31 mph
11/28/2001 [06:00 AM-07:00 AM]	23.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24 mph
11/28/2001 [07:00 AM-08:00 AM]	29.52	26.00	31.00	26.00	26.00	31.00	31.00	0.00	29 mph
11/28/2001 [08:00 AM-09:00 AM]	25.20	0.00	0.00	21.00	0.00	0.00	0.00	0.00	25 mph
11/28/2001 [09:00 AM-10:00 AM]	25.85	0.00	21.00	0.00	0.00	0.00	0.00	0.00	26 mph
11/28/2001 [10:00 AM-11:00 AM]	25.95	26.00	33.50	0.00	0.00	0.00	0.00	0.00	26 mph
11/28/2001 [11:00 AM-12:00 PM]	21.91	0.00	23.50	0.00	0.00	0.00	0.00	0.00	22 mph
11/28/2001 [12:00 PM-01:00 PM]	23.21	0.00	23.50	0.00	26.00	0.00	0.00	0.00	23 mph
11/28/2001 [01:00 PM-02:00 PM]	24.91	31.00	31.00	0.00	0.00	0.00	0.00	0.00	25 mph
11/28/2001 [02:00 PM-03:00 PM]	27.28	0.00	27.67	26.00	0.00	0.00	0.00	0.00	27 mph
11/28/2001 [03:00 PM-04:00 PM]	26.68	0.00	0.00	26.00	0.00	0.00	0.00	0.00	27 mph
11/28/2001 [04:00 PM-05:00 PM]	28.16	0.00	36.00	26.00	0.00	0.00	0.00	0.00	28 mph
11/28/2001 [05:00 PM-06:00 PM]	26.46	26.00	34.75	28.50	0.00	0.00	0.00	0.00	27 mph
11/28/2001 [06:00 PM-07:00 PM]	27.62	0.00	34.33	31.00	0.00	0.00	0.00	0.00	28 mph
11/28/2001 [07:00 PM-08:00 PM]	24.00	26.00	24.00	31.00	0.00	0.00	0.00	0.00	24 mph
11/28/2001 [08:00 PM-09:00 PM]	25.41	0.00	26.00	0.00	0.00	0.00	0.00	0.00	25 mph
11/28/2001 [09:00 PM-10:00 PM]	24.42	0.00	26.00	0.00	21.00	0.00	0.00	0.00	24 mph
11/28/2001 [10:00 PM-11:00 PM]	27.00	31.00	21.00	0.00	0.00	0.00	0.00	0.00	27 mph
11/28/2001 [11:00 PM-12:00 AM]	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26 mph
11/29/2001 [12:00 AM-01:00 AM]	29.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29 mph
11/29/2001 [01:00 AM-02:00 AM]	31.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31 mph
11/29/2001 [02:00 AM-03:00 AM]	31.00	0.00	0.00	46.00	0.00	0.00	0.00	0.00	38 mph
11/29/2001 [03:00 AM-04:00 AM]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0 mph
11/29/2001 [04:00 AM-05:00 AM]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0 mph
11/29/2001 [05:00 AM-06:00 AM]	31.00	0.00	26.00	0.00	0.00	0.00	0.00	0.00	29 mph
11/29/2001 [06:00 AM-07:00 AM]	23.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24 mph
11/29/2001 [07:00 AM-08:00 AM]	28.24	0.00	31.00	31.00	0.00	0.00	0.00	0.00	28 mph
11/29/2001 [08:00 AM-09:00 AM]	26.00	21.00	30.00	0.00	0.00	0.00	0.00	0.00	27 mph

### Average Speed by Class Report

HI-Star ID: 9759	Begin: 11/27/2001 11:00 AM	End: 11/29/2001 11:00 AM
Street: E.B.17th bet 16th&16th	Lane:	Hours: 48:00
State: IL	Oper: EP	Period: 60
City: LOMBARD	Posted: 25	Raw Count: 1166
County: DUPAGE	AADT Factor: 1	AADT Count: 583

NC90A - Feet	0	21	28	40	50	60	69	81	
Date & Time Range	to	to	to	to	to	to	to	>	Avg Speed
	20	27	39	49	59	68	80		
11/29/2001 [09:00 AM-10:00 AM]	29.00	0.00	26.00	36.00	0.00	0.00	0.00	0.00	29 mph
11/29/2001 [10:00 AM-11:00 AM]	27.11	0.00	0.00	26.00	26.00	26.00	0.00	0.00	27 mph
<b>Report Totals:</b>	<b>26.58</b>	<b>27.94</b>	<b>27.86</b>	<b>29.24</b>	<b>24.75</b>	<b>28.50</b>	<b>28.50</b>	<b>0.00</b>	

**Nu-Metrics Traffic Analyzer Study  
Computer Generated Summary Report  
City: LOMBARD  
Street: W.B.17th bet 16th&16th**

A study of vehicle traffic was conducted with HI-STAR unit number 883. The study was done in the lane on W.B.17th bet 16th&16th in LOMBARD, IL in DUPAGE county. The study began on 11/27/2001 at 11:00 AM and concluded on 11/29/2001 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 1,128 vehicles passed through the location with a peak volume of 81 on 11/28/2001 at 07:00 AM and a minimum volume of 0 on 11/28/2001 at 01:00 AM. The AADT Count for this study was 564.

**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	21	56	150	395	343	106	40	10	2	1	0	2	1	0

At least half of the vehicles were traveling in the 26 - 30 mph range or a lower speed. The average speed for all classified vehicles was 28 mph with 79.8 percent exceeding the posted speed of 25 mph. The HI-STAR found 44.8 percent of the total vehicles were traveling in excess of 30 mph. The mode speed for this traffic study was 26 mph and the 85th percentile was 31.40 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 >
1050	52	18	4	1	2	0	0

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 1,102 which represents 97.80 percent of the total classified vehicles. The number of Small Trucks in the study was 18 which represents 1.60 percent of the total classified vehicles. The number of Trucks/Busses in the study was 4 which represents 0.40 percent of the total classified vehicles. The number of Tractor Trailers in the study was 3 which represents 0.30 percent of the total classified vehicles.

**HEADWAY**

During the peak time period, on 11/28/2001 at 07:00 AM the average headway between the vehicles was 43.9 seconds. The slowest traffic period was on 11/28/2001 at 01:00 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 42 and 52 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.00 percent of the time.



## Time/Speed Report

HI-Star ID: 883 Street: W.B.17th bet 16th&16th State: IL City: LOMBARD County: DUPAGE	Begin: 11/27/2001 11:00 AM Lane: Oper: EP Posted: 25 AADT Factor: 1	End: 11/29/2001 11:00 AM Hours: 48:00 Period: 60 Raw Count: 1128 AADT Count: 564
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NC97 - mph	0	11	16	21	26	31	36	41	46	51	56	60	65	70	75	
Date & Time Range	to	to	to	to	to	to	to	to	to	to	to	to	to	to	>	Total
	10	15	20	25	30	35	40	45	50	55	59	64	69	74		
11/27/2001 [11:00 AM-12:00 PM]	0	0	1	3	9	5	1	0	1	0	1	0	0	0	0	21
11/27/2001 [12:00 PM-01:00 PM]	0	1	2	0	9	5	6	1	0	0	0	0	0	0	0	24
11/27/2001 [01:00 PM-02:00 PM]	0	1	2	2	11	7	2	2	0	0	0	0	0	0	0	27
11/27/2001 [02:00 PM-03:00 PM]	0	0	2	3	16	18	2	3	0	0	0	0	0	0	0	44
11/27/2001 [03:00 PM-04:00 PM]	0	0	3	8	16	19	7	3	1	0	0	0	0	0	0	57
11/27/2001 [04:00 PM-05:00 PM]	0	2	2	6	16	12	6	1	1	0	0	0	0	0	0	46
11/27/2001 [05:00 PM-06:00 PM]	0	1	3	12	20	15	4	0	0	0	0	0	0	0	0	55
11/27/2001 [06:00 PM-07:00 PM]	0	0	2	4	16	18	0	4	0	0	0	0	0	0	0	44
11/27/2001 [07:00 PM-08:00 PM]	0	1	0	3	9	6	4	2	1	0	0	0	0	0	0	26
11/27/2001 [08:00 PM-09:00 PM]	0	0	2	2	8	3	1	0	0	0	0	0	0	0	0	16
11/27/2001 [09:00 PM-10:00 PM]	0	0	0	0	16	2	4	0	0	1	0	0	0	1	0	24
11/27/2001 [10:00 PM-11:00 PM]	0	1	2	1	4	1	1	0	0	0	0	0	0	0	0	10
11/27/2001 [11:00 PM-12:00 AM]	0	1	3	2	0	3	1	0	0	0	0	0	0	0	0	10
<b>Daily Totals:</b>	<b>0</b>	<b>8</b>	<b>24</b>	<b>46</b>	<b>150</b>	<b>114</b>	<b>39</b>	<b>16</b>	<b>4</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>404</b>
11/28/2001 [12:00 AM-01:00 AM]	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	2
11/28/2001 [01:00 AM-02:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/28/2001 [02:00 AM-03:00 AM]	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
11/28/2001 [03:00 AM-04:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/28/2001 [04:00 AM-05:00 AM]	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	4
11/28/2001 [05:00 AM-06:00 AM]	0	0	0	0	2	4	1	0	0	0	0	0	0	0	0	7
11/28/2001 [06:00 AM-07:00 AM]	0	0	0	6	10	6	2	0	0	0	0	0	0	0	0	24
11/28/2001 [07:00 AM-08:00 AM]	0	1	2	11	30	23	8	3	2	0	0	0	1	0	0	81
11/28/2001 [08:00 AM-09:00 AM]	0	1	2	6	8	12	6	3	0	0	0	0	0	0	0	38
11/28/2001 [09:00 AM-10:00 AM]	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
11/28/2001 [10:00 AM-11:00 AM]	0	1	0	2	2	1	2	0	0	0	0	0	0	0	0	8
11/28/2001 [11:00 AM-12:00 PM]	0	0	1	2	2	0	0	0	0	0	0	0	0	0	0	5
11/28/2001 [12:00 PM-01:00 PM]	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	4
11/28/2001 [01:00 PM-02:00 PM]	0	1	4	1	9	8	1	0	0	0	0	0	0	0	0	24
11/28/2001 [02:00 PM-03:00 PM]	0	1	1	11	14	12	1	1	3	1	0	0	0	0	0	45
11/28/2001 [03:00 PM-04:00 PM]	0	0	2	3	14	18	6	3	0	0	0	0	0	0	0	46
11/28/2001 [04:00 PM-05:00 PM]	0	1	2	4	14	16	4	1	0	0	0	0	0	0	0	42
11/28/2001 [05:00 PM-06:00 PM]	0	0	1	8	21	12	3	2	0	0	0	0	0	0	0	47
11/28/2001 [06:00 PM-07:00 PM]	0	1	1	4	16	13	4	0	0	0	0	0	0	0	0	39
11/28/2001 [07:00 PM-08:00 PM]	0	1	1	5	4	10	2	1	0	0	0	0	1	0	0	25
11/28/2001 [08:00 PM-09:00 PM]	0	0	0	9	13	7	1	0	0	0	0	0	0	0	0	30
11/28/2001 [09:00 PM-10:00 PM]	0	0	1	2	4	4	2	0	1	0	0	0	0	0	0	14
11/28/2001 [10:00 PM-11:00 PM]	0	2	0	0	3	4	0	0	0	0	0	0	0	0	0	9

## Time/Speed Report

HI-Star ID: 883 Street: W.B.17th bet 16th&16th State: IL City: LOMBARD County: DUPAGE	Begin: 11/27/2001 11:00 AM Lane: Oper: EP Posted: 25 AADT Factor: 1	End: 11/29/2001 11:00 AM Hours: 48:00 Period: 60 Raw Count: 1128 AADT Count: 564
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NC97 - mph	0	11	16	21	26	31	36	41	46	51	56	60	65	70	75	
Date & Time Range	to	to	to	to	to	to	to	to	to	to	to	to	to	to	>	Total
Date & Time Range	10	15	20	25	30	35	40	45	50	55	59	64	69	74		

11/28/2001 [11:00 PM-12:00 AM]	0	0	3	1	1	0	0	1	0	0	0	0	0	0	0	6
--------------------------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Daily Totals:	0		24		170		43		6		0		2		0	503
		11		78		153		15		1		0		0		

11/29/2001 [12:00 AM-01:00 AM]	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
11/29/2001 [01:00 AM-02:00 AM]	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
11/29/2001 [02:00 AM-03:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/29/2001 [03:00 AM-04:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/29/2001 [04:00 AM-05:00 AM]	0	0	0	0	3	1	0	1	0	0	0	0	0	0	0	5
11/29/2001 [05:00 AM-06:00 AM]	0	0	0	5	1	3	0	0	0	0	0	0	0	0	0	9
11/29/2001 [06:00 AM-07:00 AM]	0	0	2	1	10	8	2	1	0	0	0	0	0	0	0	24
11/29/2001 [07:00 AM-08:00 AM]	0	1	5	7	28	19	7	2	0	0	0	0	0	0	0	69
11/29/2001 [08:00 AM-09:00 AM]	0	1	1	9	12	18	3	2	0	0	0	0	0	0	0	46
11/29/2001 [09:00 AM-10:00 AM]	0	0	0	3	3	16	5	2	0	0	0	0	0	0	0	29
11/29/2001 [10:00 AM-11:00 AM]	0	0	0	1	16	11	7	1	0	0	0	0	0	0	0	36

Daily Totals:	0		8		75		24		0		0		0		0	220
		2		26		76		9		0		0		0		

Report Totals:	0		56		395		106		10		1		2		0	1127
		21		150		343		40		2		0		1		

Report Percentages:	0.00%	4.97%	35.05%	9.41%	0.89%	0.09%	0.18%	0.00%								
		1.86%	13.31%	30.43%	3.55%	0.18%	0.00%	0.09%								

### Average Speed by Class Report

HI-Star ID: 883 Street: W.B.17th bet 16th&16th State: IL City: LOMBARD County: DUPAGE		Begin: 11/27/2001 11:00 AM Lane: Oper: EP Posted: 25 AADT Factor: 1			End: 11/29/2001 11:00 AM Hours: 48:00 Period: 60 Raw Count: 1128 AADT Count: 564				
NC97 - Feet	0	21	28	40	50	60	69	81	
Date & Time Range	to 20	to 27	to 39	to 49	to 59	to 68	to 80	>	Avg Speed
11/27/2001 [11:00 AM-12:00 PM]	29.00	26.00	0.00	0.00	0.00	0.00	0.00	0.00	29 mph
11/27/2001 [12:00 PM-01:00 PM]	28.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29 mph
11/27/2001 [01:00 PM-02:00 PM]	28.08	22.67	0.00	0.00	0.00	0.00	0.00	0.00	27 mph
11/27/2001 [02:00 PM-03:00 PM]	28.38	41.00	31.00	0.00	0.00	0.00	0.00	0.00	29 mph
11/27/2001 [03:00 PM-04:00 PM]	29.12	30.00	23.50	0.00	0.00	0.00	0.00	0.00	29 mph
11/27/2001 [04:00 PM-05:00 PM]	27.46	29.00	0.00	0.00	0.00	0.00	0.00	0.00	28 mph
11/27/2001 [05:00 PM-06:00 PM]	26.00	26.00	36.00	0.00	0.00	0.00	0.00	0.00	26 mph
11/27/2001 [06:00 PM-07:00 PM]	28.14	36.00	0.00	0.00	0.00	0.00	0.00	0.00	28 mph
11/27/2001 [07:00 PM-08:00 PM]	29.12	33.50	0.00	0.00	0.00	0.00	0.00	0.00	29 mph
11/27/2001 [08:00 PM-09:00 PM]	26.00	23.50	26.00	0.00	0.00	0.00	0.00	0.00	26 mph
11/27/2001 [09:00 PM-10:00 PM]	30.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31 mph
11/27/2001 [10:00 PM-11:00 PM]	23.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24 mph
11/27/2001 [11:00 PM-12:00 AM]	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23 mph
11/28/2001 [12:00 AM-01:00 AM]	11.00	31.00	0.00	0.00	0.00	0.00	0.00	0.00	21 mph
11/28/2001 [01:00 AM-02:00 AM]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0 mph
11/28/2001 [02:00 AM-03:00 AM]	31.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31 mph
11/28/2001 [03:00 AM-04:00 AM]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0 mph
11/28/2001 [04:00 AM-05:00 AM]	27.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27 mph
11/28/2001 [05:00 AM-06:00 AM]	30.17	0.00	0.00	31.00	0.00	0.00	0.00	0.00	30 mph
11/28/2001 [06:00 AM-07:00 AM]	26.48	29.33	0.00	0.00	0.00	0.00	0.00	0.00	27 mph
11/28/2001 [07:00 AM-08:00 AM]	28.30	43.25	22.67	0.00	0.00	0.00	0.00	0.00	29 mph
11/28/2001 [08:00 AM-09:00 AM]	29.00	26.00	21.00	0.00	0.00	0.00	0.00	0.00	29 mph
11/28/2001 [09:00 AM-10:00 AM]	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16 mph
11/28/2001 [10:00 AM-11:00 AM]	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26 mph
11/28/2001 [11:00 AM-12:00 PM]	22.25	0.00	21.00	0.00	0.00	0.00	0.00	0.00	22 mph
11/28/2001 [12:00 PM-01:00 PM]	19.33	21.00	0.00	0.00	0.00	0.00	0.00	0.00	20 mph
11/28/2001 [01:00 PM-02:00 PM]	25.29	28.50	0.00	26.00	0.00	0.00	0.00	0.00	26 mph
11/28/2001 [02:00 PM-03:00 PM]	27.51	46.00	31.00	0.00	0.00	0.00	0.00	0.00	28 mph
11/28/2001 [03:00 PM-04:00 PM]	30.15	22.67	26.00	0.00	0.00	0.00	0.00	0.00	29 mph
11/28/2001 [04:00 PM-05:00 PM]	27.71	36.00	0.00	0.00	0.00	0.00	0.00	0.00	28 mph
11/28/2001 [05:00 PM-06:00 PM]	27.52	0.00	0.00	26.00	0.00	0.00	0.00	0.00	27 mph
11/28/2001 [06:00 PM-07:00 PM]	27.35	31.00	0.00	0.00	0.00	0.00	0.00	0.00	28 mph
11/28/2001 [07:00 PM-08:00 PM]	27.46	0.00	0.00	65.00	0.00	0.00	0.00	0.00	29 mph
11/28/2001 [08:00 PM-09:00 PM]	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26 mph
11/28/2001 [09:00 PM-10:00 PM]	28.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29 mph
11/28/2001 [10:00 PM-11:00 PM]	24.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25 mph
11/28/2001 [11:00 PM-12:00 AM]	22.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23 mph
11/29/2001 [12:00 AM-01:00 AM]	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26 mph
11/29/2001 [01:00 AM-02:00 AM]	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26 mph
11/29/2001 [02:00 AM-03:00 AM]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0 mph
11/29/2001 [03:00 AM-04:00 AM]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0 mph
11/29/2001 [04:00 AM-05:00 AM]	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30 mph
11/29/2001 [05:00 AM-06:00 AM]	24.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25 mph
11/29/2001 [06:00 AM-07:00 AM]	27.52	41.00	0.00	0.00	0.00	0.00	0.00	0.00	28 mph
11/29/2001 [07:00 AM-08:00 AM]	27.51	26.00	26.00	0.00	0.00	0.00	0.00	0.00	27 mph
11/29/2001 [08:00 AM-09:00 AM]	27.74	28.50	26.00	0.00	0.00	0.00	0.00	0.00	28 mph

### Average Speed by Class Report

HI-Star ID: 883	Begin: 11/27/2001 11:00 AM	End: 11/29/2001 11:00 AM
Street: W.B.17th bet 16th&16th	Lane:	Hours: 48:00
State: IL	Oper: EP	Period: 60
City: LOMBARD	Posted: 25	Raw Count: 1128
County: DUPAGE	AADT Factor: 1	AADT Count: 564

NC97 - Feet	0	21	28	40	50	60	69	81	
Date & Time Range	to	to	to	to	to	to	to	>	Avg Speed
	20	27	39	49	59	68	80		
11/29/2001 [09:00 AM-10:00 AM]	31.19	29.33	0.00	0.00	0.00	0.00	0.00	0.00	31 mph
11/29/2001 [10:00 AM-11:00 AM]	30.09	0.00	0.00	0.00	26.00	26.00	0.00	0.00	30 mph
<b>Report Totals:</b>	<b>26.60</b>	<b>30.75</b>	<b>26.38</b>	<b>37.00</b>	<b>26.00</b>	<b>26.00</b>	<b>0.00</b>	<b>0.00</b>	

**Nu-Metrics Traffic Analyzer Study  
Computer Generated Summary Report  
City: LOMBARD  
Street: E.B. 17th at Lalonde/16th**

A study of vehicle traffic was conducted with HI-STAR unit number 6784. The study was done in the lane on E.B. 17th at Lalonde/16th in LOMBARD, IL in DUPAGE county. The study began on 09/11/2001 at 09:00 AM and concluded on 09/13/2001 at 09:00 AM, lasting a total of 48 hours. Data was recorded in 60 minute time periods. The total recorded volume of traffic showed 921 vehicles passed through the location with a peak volume of 63 on 09/12/2001 at 07:00 AM and a minimum volume of 0 on 09/12/2001 at 01:00 AM. The AADT Count for this study was 461.

**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	15	62	114	236	283	155	29	13	5	1	0	1	3	2

At least half of the vehicles were traveling in the 31 - 35 mph range or a lower speed. The average speed for all classified vehicles was 29 mph with 79.2 percent exceeding the posted speed of 25 mph. The HI-STAR found 53.5 percent of the total vehicles were traveling in excess of 30 mph. The mode speed for this traffic study was 31 mph and the 85th percentile was 33.80 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 >
861	40	17	0	1	0	0	0

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 901 which represents 98.00 percent of the total classified vehicles. The number of Small Trucks in the study was 17 which represents 1.80 percent of the total classified vehicles. The number of Trucks/Busses in the study was 0 which represents 0.00 percent of the total classified vehicles. The number of Tractor Trailers in the study was 1 which represents 0.10 percent of the total classified vehicles.

**HEADWAY**

During the peak time period, on 09/12/2001 at 07:00 AM the average headway between the vehicles was 56.25 seconds. The slowest traffic period was on 09/12/2001 at 01:00 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 68 and 115 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.00 percent of the time.

## Time/Speed Report

HI-Star ID: 6784	Begin: 09/11/2001 09:00 AM	End: 09/13/2001 09:00 AM
Street: E.B. 17th at Lalonde/16th	Lane:	Hours: 48:00
State: IL	Oper: EP	Period: 60
City: LOMBARD	Posted: 25	Raw Count: 921
County: DUPAGE	AADT Factor: 1	AADT Count: 461

NC97 - mph	0	11	16	21	26	31	36	41	46	51	56	60	65	70	75	
Date & Time Range	to	to	to	to	to	to	to	to	to	to	to	to	to	to	>	Total
	10	15	20	25	30	35	40	45	50	55	59	64	69	74		

09/11/2001 [09:00 AM-10:00 AM]	0	0	3	1	6	6	5	0	0	0	0	0	0	0	0	21
09/11/2001 [10:00 AM-11:00 AM]	0	0	1	2	4	6	1	1	0	0	0	0	0	0	0	15
09/11/2001 [11:00 AM-12:00 PM]	0	1	5	3	6	6	7	0	0	0	0	0	0	0	0	28
09/11/2001 [12:00 PM-01:00 PM]	0	2	1	1	12	5	2	2	0	1	0	0	0	0	0	26
09/11/2001 [01:00 PM-02:00 PM]	0	1	1	1	3	3	5	0	0	0	0	0	0	0	0	14
09/11/2001 [02:00 PM-03:00 PM]	0	0	2	3	7	8	8	1	0	0	0	0	0	0	0	29
09/11/2001 [03:00 PM-04:00 PM]	0	0	2	3	12	19	10	0	1	0	0	0	0	0	0	47
09/11/2001 [04:00 PM-05:00 PM]	0	0	3	2	8	9	4	2	0	1	1	0	0	0	0	30
09/11/2001 [05:00 PM-06:00 PM]	0	0	3	10	5	10	5	1	0	0	0	0	0	0	0	34
09/11/2001 [06:00 PM-07:00 PM]	0	0	0	5	7	10	6	1	0	1	0	0	0	0	0	30
09/11/2001 [07:00 PM-08:00 PM]	0	0	5	6	7	8	3	1	0	0	0	0	0	0	0	30
09/11/2001 [08:00 PM-09:00 PM]	0	0	0	1	7	10	2	0	0	0	0	0	1	0	1	22
09/11/2001 [09:00 PM-10:00 PM]	0	0	2	8	5	6	0	1	0	0	0	0	0	1	0	23
09/11/2001 [10:00 PM-11:00 PM]	0	0	0	0	4	1	1	0	0	0	0	0	0	0	0	6
09/11/2001 [11:00 PM-12:00 AM]	0	0	1	0	0	4	1	0	0	0	0	0	0	0	0	6

Daily Totals:	0	4	29	46	93	111	60	10	1	3	1	0	1	1	1	361
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09/12/2001 [12:00 AM-01:00 AM]	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2
09/12/2001 [01:00 AM-02:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09/12/2001 [02:00 AM-03:00 AM]	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
09/12/2001 [03:00 AM-04:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09/12/2001 [04:00 AM-05:00 AM]	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2
09/12/2001 [05:00 AM-06:00 AM]	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	2
09/12/2001 [06:00 AM-07:00 AM]	0	0	0	2	2	2	0	0	1	0	0	0	0	0	0	7
09/12/2001 [07:00 AM-08:00 AM]	0	1	1	3	16	20	13	4	2	1	0	0	0	0	0	61
09/12/2001 [08:00 AM-09:00 AM]	0	0	3	2	7	9	3	0	0	0	0	0	0	0	0	24
09/12/2001 [09:00 AM-10:00 AM]	0	1	0	0	4	2	2	0	1	0	0	0	0	0	0	10
09/12/2001 [10:00 AM-11:00 AM]	0	1	2	2	6	4	3	1	0	0	0	0	0	0	0	19
09/12/2001 [11:00 AM-12:00 PM]	0	0	2	2	11	6	0	1	0	0	0	0	0	0	0	22
09/12/2001 [12:00 PM-01:00 PM]	0	1	1	3	9	8	3	1	0	0	0	0	0	0	0	26
09/12/2001 [01:00 PM-02:00 PM]	0	0	1	1	1	9	9	1	0	0	0	0	0	0	0	22
09/12/2001 [02:00 PM-03:00 PM]	0	0	1	7	6	5	5	1	1	0	0	0	0	0	0	26
09/12/2001 [03:00 PM-04:00 PM]	0	0	3	4	10	9	4	0	0	0	0	0	0	0	0	30
09/12/2001 [04:00 PM-05:00 PM]	0	0	2	2	5	8	4	0	1	0	0	0	0	0	0	22
09/12/2001 [05:00 PM-06:00 PM]	0	1	1	2	9	22	8	2	1	0	0	0	0	0	0	46
09/12/2001 [06:00 PM-07:00 PM]	0	1	1	3	8	13	10	0	0	0	0	0	0	0	0	36
09/12/2001 [07:00 PM-08:00 PM]	0	1	5	10	10	8	1	0	0	0	0	0	0	1	0	36
09/12/2001 [08:00 PM-09:00 PM]	0	1	1	3	9	10	3	1	0	0	0	0	0	0	1	29

## Time/Speed Report

HI-Star ID: 6784	Begin: 09/11/2001 09:00 AM	End: 09/13/2001 09:00 AM
Street: E.B. 17th at Lalonde/16th	Lane:	Hours: 48:00
State: IL	Oper: EP	Period: 60
City: LOMBARD	Posted: 25	Raw Count: 921
County: DUPAGE	AADT Factor: 1	AADT Count: 461

NC97 - mph	0	11	16	21	26	31	36	41	46	51	56	60	65	70	75	
Date & Time Range	to	to	to	to	to	to	to	to	to	to	to	to	to	to	>	Total
	10	15	20	25	30	35	40	45	50	55	59	64	69	74		

09/12/2001 [09:00 PM-10:00 PM]	0	1	3	3	1	5	1	0	0	0	0	0	0	0	0	14
09/12/2001 [10:00 PM-11:00 PM]	0	0	0	2	4	1	2	0	0	0	0	0	0	0	0	9
09/12/2001 [11:00 PM-12:00 AM]	0	0	0	3	1	0	0	1	0	0	0	0	0	0	0	5

Daily Totals:	0		28		120		72		6		0		0		1	
		9		55		143		14		2		0		1		451

09/13/2001 [12:00 AM-01:00 AM]	0	0	0	0	0	3	0	1	0	0	0	0	0	0	0	4
09/13/2001 [01:00 AM-02:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09/13/2001 [02:00 AM-03:00 AM]	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	3
09/13/2001 [03:00 AM-04:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09/13/2001 [04:00 AM-05:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09/13/2001 [05:00 AM-06:00 AM]	0	0	0	2	0	1	1	0	0	0	0	0	0	0	0	4
09/13/2001 [06:00 AM-07:00 AM]	0	1	0	3	2	1	2	0	0	0	0	0	0	0	0	9
09/13/2001 [07:00 AM-08:00 AM]	0	1	2	6	12	16	15	4	1	0	0	0	0	0	0	57
09/13/2001 [08:00 AM-09:00 AM]	0	0	3	2	8	7	4	0	5	0	0	0	0	1	0	30

Daily Totals:	0		5		23		23		6		0		0		0	
		2		13		29		5		0		0		1		107

Report Totals:	0		62		236		155		13		1		1		2	
		15		114		283		29		5		0		3		919

Report Percentages:	0.00%	6.75%	25.68%	16.87%	1.41%	0.11%	0.11%	0.22%								
		1.63%	12.40%	30.79%	3.16%	0.54%	0.00%	0.33%								

### Average Speed by Class Report

HI-Star ID: 6784 Street: E.B. 17th at Lalonde/16th State: IL City: LOMBARD County: DUPAGE	Begin: 09/11/2001 09:00 AM Lane: Oper: EP Posted: 25 AADT Factor: 1	End: 09/13/2001 09:00 AM Hours: 48:00 Period: 60 Raw Count: 921 AADT Count: 461
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NC97 - Feet	0	21	28	40	50	60	69	81	
Date & Time Range	to	to	to	to	to	to	to	>	Avg Speed
	20	27	39	49	59	68	80		
09/11/2001 [09:00 AM-10:00 AM]	28.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28 mph
09/11/2001 [10:00 AM-11:00 AM]	28.50	26.00	0.00	0.00	0.00	0.00	0.00	0.00	28 mph
09/11/2001 [11:00 AM-12:00 PM]	26.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27 mph
09/11/2001 [12:00 PM-01:00 PM]	27.43	32.67	31.00	0.00	26.00	0.00	0.00	0.00	28 mph
09/11/2001 [01:00 PM-02:00 PM]	28.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28 mph
09/11/2001 [02:00 PM-03:00 PM]	29.70	26.00	26.00	0.00	0.00	0.00	0.00	0.00	29 mph
09/11/2001 [03:00 PM-04:00 PM]	29.89	28.50	0.00	0.00	0.00	0.00	0.00	0.00	30 mph
09/11/2001 [04:00 PM-05:00 PM]	29.70	36.00	0.00	0.00	0.00	0.00	0.00	0.00	30 mph
09/11/2001 [05:00 PM-06:00 PM]	27.21	21.00	0.00	0.00	0.00	0.00	0.00	0.00	27 mph
09/11/2001 [06:00 PM-07:00 PM]	29.52	26.00	41.00	0.00	0.00	0.00	0.00	0.00	30 mph
09/11/2001 [07:00 PM-08:00 PM]	26.18	31.00	21.00	0.00	0.00	0.00	0.00	0.00	26 mph
09/11/2001 [08:00 PM-09:00 PM]	33.29	26.00	0.00	0.00	0.00	0.00	0.00	0.00	33 mph
09/11/2001 [09:00 PM-10:00 PM]	27.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27 mph
09/11/2001 [10:00 PM-11:00 PM]	29.00	26.00	0.00	0.00	0.00	0.00	0.00	0.00	28 mph
09/11/2001 [11:00 PM-12:00 AM]	29.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29 mph
09/12/2001 [12:00 AM-01:00 AM]	28.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28 mph
09/12/2001 [01:00 AM-02:00 AM]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0 mph
09/12/2001 [02:00 AM-03:00 AM]	36.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36 mph
09/12/2001 [03:00 AM-04:00 AM]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0 mph
09/12/2001 [04:00 AM-05:00 AM]	31.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31 mph
09/12/2001 [05:00 AM-06:00 AM]	23.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24 mph
09/12/2001 [06:00 AM-07:00 AM]	26.00	38.50	0.00	0.00	0.00	0.00	0.00	0.00	30 mph
09/12/2001 [07:00 AM-08:00 AM]	31.00	0.00	41.00	0.00	0.00	0.00	0.00	0.00	31 mph
09/12/2001 [08:00 AM-09:00 AM]	27.59	26.00	26.00	0.00	0.00	0.00	0.00	0.00	27 mph
09/12/2001 [09:00 AM-10:00 AM]	27.67	46.00	0.00	0.00	0.00	0.00	0.00	0.00	30 mph
09/12/2001 [10:00 AM-11:00 AM]	27.94	11.00	0.00	0.00	0.00	0.00	0.00	0.00	27 mph
09/12/2001 [11:00 AM-12:00 PM]	26.75	26.00	26.00	0.00	0.00	0.00	0.00	0.00	27 mph
09/12/2001 [12:00 PM-01:00 PM]	27.80	26.00	0.00	0.00	0.00	0.00	0.00	0.00	28 mph
09/12/2001 [01:00 PM-02:00 PM]	31.75	0.00	36.00	0.00	0.00	0.00	0.00	0.00	32 mph
09/12/2001 [02:00 PM-03:00 PM]	28.61	27.67	0.00	0.00	0.00	0.00	0.00	0.00	28 mph
09/12/2001 [03:00 PM-04:00 PM]	27.25	26.00	0.00	0.00	0.00	0.00	0.00	0.00	27 mph
09/12/2001 [04:00 PM-05:00 PM]	29.10	31.00	0.00	0.00	0.00	0.00	0.00	0.00	29 mph
09/12/2001 [05:00 PM-06:00 PM]	30.25	31.00	32.67	0.00	0.00	0.00	0.00	0.00	30 mph
09/12/2001 [06:00 PM-07:00 PM]	29.43	0.00	31.00	0.00	0.00	0.00	0.00	0.00	29 mph
09/12/2001 [07:00 PM-08:00 PM]	23.88	28.50	70.00	0.00	0.00	0.00	0.00	0.00	25 mph
09/12/2001 [08:00 PM-09:00 PM]	28.31	23.50	75.00	0.00	0.00	0.00	0.00	0.00	30 mph
09/12/2001 [09:00 PM-10:00 PM]	24.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24 mph
09/12/2001 [10:00 PM-11:00 PM]	27.88	26.00	0.00	0.00	0.00	0.00	0.00	0.00	28 mph
09/12/2001 [11:00 PM-12:00 AM]	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26 mph
09/13/2001 [12:00 AM-01:00 AM]	33.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34 mph
09/13/2001 [01:00 AM-02:00 AM]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0 mph
09/13/2001 [02:00 AM-03:00 AM]	31.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31 mph
09/13/2001 [03:00 AM-04:00 AM]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0 mph
09/13/2001 [04:00 AM-05:00 AM]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0 mph
09/13/2001 [05:00 AM-06:00 AM]	27.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27 mph
09/13/2001 [06:00 AM-07:00 AM]	25.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25 mph



### Average Speed by Class Report

HI-Star ID: 6784 Street: E.B. 17th at Lalonde/16th State: IL City: LOMBARD County: DUPAGE		Begin: 09/11/2001 09:00 AM Lane: Oper: EP Posted: 25 AADT Factor: 1			End: 09/13/2001 09:00 AM Hours: 48:00 Period: 60 Raw Count: 921 AADT Count: 461				
NC97 - Feet	0	21	28	40	50	60	69	81	
	to	to	to	to	to	to	to	>	
Date & Time Range	20	27	39	49	59	68	80		Avg Speed
09/13/2001 [07:00 AM-08:00 AM]	30.53	27.25	0.00	0.00	0.00	0.00	0.00	0.00	30 mph
09/13/2001 [08:00 AM-09:00 AM]	32.17	0.00	26.00	0.00	0.00	0.00	0.00	0.00	32 mph
<b>Report Totals:</b>	<b>28.62</b>	<b>28.07</b>	<b>37.13</b>	<b>0.00</b>	<b>26.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	

**Nu-Metrics Traffic Analyzer Study  
Computer Generated Summary Report  
City: LOMBARD  
Street: W.B. 17th at Lalonde/16th**

A study of vehicle traffic was conducted with HI-STAR unit number 7523. The study was done in the lane on W.B. 17th at Lalonde/16th in LOMBARD, IL in DUPAGE county. The study began on 09/11/2001 at 09:00 AM and concluded on 09/13/2001 at 07:00 AM, lasting a total of 46 hours. Data was recorded in 60 minute time periods. The total recorded volume of traffic showed 1,056 vehicles passed through the location with a peak volume of 75 on 09/11/2001 at 03:00 PM and a minimum volume of 0 on 09/12/2001 at 01:00 AM. The AADT Count for this study was 551.

**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 >
11	6	105	146	277	338	129	25	7	3	1	0	0	0	0

At least half of the vehicles were traveling in the 26 - 30 mph range or a lower speed. The average speed for all classified vehicles was 27 mph with 74.4 percent exceeding the posted speed of 25 mph. The HI-STAR found 48.0 percent of the total vehicles were traveling in excess of 30 mph. The mode speed for this traffic study was 31 mph and the 85th percentile was 31.80 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 >
921	14	59	47	7	0	0	0

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 935 which represents 89.20 percent of the total classified vehicles. The number of Small Trucks in the study was 59 which represents 5.60 percent of the total classified vehicles. The number of Trucks/Busses in the study was 47 which represents 4.50 percent of the total classified vehicles. The number of Tractor Trailers in the study was 7 which represents 0.70 percent of the total classified vehicles.

**HEADWAY**

During the peak time period, on 09/11/2001 at 03:00 PM the average headway between the vehicles was 47.37 seconds. The slowest traffic period was on 09/12/2001 at 01:00 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 70 and 109 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.00 percent of the time.

## Time/Speed Report

HI-Star ID: 7523	Begin: 09/11/2001 09:00 AM	End: 09/13/2001 07:00 AM
Street: W.B. 17th at Lalonde/16th	Lane:	Hours: 46:00
State: IL	Oper: EP	Period: 60
City: LOMBARD	Posted: 25	Raw Count: 1056
County: DUPAGE	AADT Factor: 1	AADT Count: 551

NC90A - mph	0	11	16	21	26	31	36	41	46	51	56	60	65	70	75	
Date & Time Range	to	to	to	to	to	to	to	to	to	to	to	to	to	to	>	Total
	10	15	20	25	30	35	40	45	50	55	59	64	69	74		
09/11/2001 [09:00 AM-10:00 AM]	0	0	8	5	4	5	2	0	0	0	0	0	0	0	0	24
09/11/2001 [10:00 AM-11:00 AM]	0	0	1	3	13	13	1	0	0	1	0	0	0	0	0	32
09/11/2001 [11:00 AM-12:00 PM]	0	0	4	2	8	9	3	1	0	0	0	0	0	0	0	27
09/11/2001 [12:00 PM-01:00 PM]	0	1	1	1	7	7	5	1	0	0	0	0	0	0	0	23
09/11/2001 [01:00 PM-02:00 PM]	2	0	4	4	4	11	2	0	0	0	0	0	0	0	0	27
09/11/2001 [02:00 PM-03:00 PM]	0	0	3	11	16	17	3	1	0	0	0	0	0	0	0	51
09/11/2001 [03:00 PM-04:00 PM]	0	1	7	7	11	33	10	6	0	0	0	0	0	0	0	75
09/11/2001 [04:00 PM-05:00 PM]	1	0	8	8	10	11	4	1	0	0	0	0	0	0	0	43
09/11/2001 [05:00 PM-06:00 PM]	1	0	4	2	17	17	7	1	1	0	0	0	0	0	0	50
09/11/2001 [06:00 PM-07:00 PM]	0	0	2	7	9	10	4	0	0	0	0	0	0	0	0	32
09/11/2001 [07:00 PM-08:00 PM]	1	0	0	5	6	9	3	2	0	0	0	0	0	0	0	26
09/11/2001 [08:00 PM-09:00 PM]	0	0	5	3	5	2	1	0	0	0	0	0	0	0	0	16
09/11/2001 [09:00 PM-10:00 PM]	0	0	2	1	0	3	1	0	0	0	0	0	0	0	0	7
09/11/2001 [10:00 PM-11:00 PM]	0	0	2	1	5	1	0	0	0	0	0	0	0	0	0	9
09/11/2001 [11:00 PM-12:00 AM]	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	3
<b>Daily Totals:</b>	<b>5</b>	<b>2</b>	<b>52</b>	<b>60</b>	<b>116</b>	<b>149</b>	<b>46</b>	<b>13</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>445</b>
09/12/2001 [12:00 AM-01:00 AM]	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
09/12/2001 [01:00 AM-02:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09/12/2001 [02:00 AM-03:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09/12/2001 [03:00 AM-04:00 AM]	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
09/12/2001 [04:00 AM-05:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09/12/2001 [05:00 AM-06:00 AM]	0	0	0	1	4	1	0	0	0	0	0	0	0	0	0	6
09/12/2001 [06:00 AM-07:00 AM]	0	0	0	0	7	5	5	0	0	0	0	0	0	0	0	17
09/12/2001 [07:00 AM-08:00 AM]	0	0	1	4	17	26	11	2	2	0	1	0	0	0	0	64
09/12/2001 [08:00 AM-09:00 AM]	1	0	3	1	9	9	6	1	1	0	0	0	0	0	0	31
09/12/2001 [09:00 AM-10:00 AM]	0	0	4	4	2	7	1	1	0	0	0	0	0	0	0	19
09/12/2001 [10:00 AM-11:00 AM]	0	1	1	1	3	4	2	0	0	0	0	0	0	0	0	12
09/12/2001 [11:00 AM-12:00 PM]	2	0	4	3	11	8	4	3	0	2	0	0	0	0	0	37
09/12/2001 [12:00 PM-01:00 PM]	0	0	6	4	6	11	6	1	0	0	0	0	0	0	0	34
09/12/2001 [01:00 PM-02:00 PM]	0	0	3	5	5	5	3	0	1	0	0	0	0	0	0	22
09/12/2001 [02:00 PM-03:00 PM]	0	2	2	10	9	13	4	0	1	0	0	0	0	0	0	41
09/12/2001 [03:00 PM-04:00 PM]	1	1	3	3	14	18	9	1	0	0	0	0	0	0	0	50
09/12/2001 [04:00 PM-05:00 PM]	1	0	9	5	11	8	3	1	0	0	0	0	0	0	0	38
09/12/2001 [05:00 PM-06:00 PM]	0	0	5	14	16	15	4	1	0	0	0	0	0	0	0	55
09/12/2001 [06:00 PM-07:00 PM]	0	0	4	11	20	24	11	0	0	0	0	0	0	0	0	70
09/12/2001 [07:00 PM-08:00 PM]	1	0	3	8	7	12	5	0	0	0	0	0	0	0	0	36
09/12/2001 [08:00 PM-09:00 PM]	0	0	3	2	12	5	1	1	0	0	0	0	0	0	0	24

## Time/Speed Report

HI-Star ID: 7523	Begin: 09/11/2001 09:00 AM	End: 09/13/2001 07:00 AM
Street: W.B. 17th at Lalonde/16th	Lane:	Hours: 46:00
State: IL	Oper: EP	Period: 60
City: LOMBARD	Posted: 25	Raw Count: 1056
County: DUPAGE	AADT Factor: 1	AADT Count: 551

NC90A - mph	0	11	16	21	26	31	36	41	46	51	56	60	65	70	75	
Date & Time Range	to	to	to	to	to	to	to	to	to	to	to	to	to	to	>	Total

09/12/2001 [09:00 PM-10:00 PM]	0	0	1	3	0	6	1	0	0	0	0	0	0	0	0	0	11
09/12/2001 [10:00 PM-11:00 PM]	0	0	1	3	2	2	3	0	1	0	0	0	0	0	0	0	12
09/12/2001 [11:00 PM-12:00 AM]	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	3

Daily Totals:	6		53		156		79		6		1		0		0		584
		4		84		181		12		2		0		0			

09/13/2001 [12:00 AM-01:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09/13/2001 [01:00 AM-02:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09/13/2001 [02:00 AM-03:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09/13/2001 [03:00 AM-04:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09/13/2001 [04:00 AM-05:00 AM]	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
09/13/2001 [05:00 AM-06:00 AM]	0	0	0	2	2	2	0	0	0	0	0	0	0	0	0	0	6
09/13/2001 [06:00 AM-07:00 AM]	0	0	0	0	3	6	3	0	0	0	0	0	0	0	0	0	12

Daily Totals:	0		0		5		4		0		0		0		0		19
		0		2		8		0		0		0		0			

Report Totals:	11		105		277		129		7		1		0		0		1048
		6		146		338		25		3		0		0			

Report Percentages:	1.05%	10.02%	26.43%	12.31%	0.67%	0.10%	0.00%	0.00%									
		0.57%	13.93%	32.25%	2.39%	0.29%	0.00%	0.00%									

### Average Speed by Class Report

HI-Star ID: 7523	Begin: 09/11/2001 09:00 AM	End: 09/13/2001 07:00 AM
Street: W.B. 17th at Lalonde/16th	Lane:	Hours: 46:00
State: IL	Oper: EP	Period: 60
City: LOMBARD	Posted: 25	Raw Count: 1056
County: DUPAGE	AADT Factor: 1	AADT Count: 551

NC90A - Feet	0	21	28	40	50	60	69	81	
Date & Time Range	to	to	to	to	to	to	to	>	Avg Speed
	20	27	39	49	59	68	80		
09/11/2001 [09:00 AM-10:00 AM]	23.06	16.00	0.00	24.00	36.00	0.00	0.00	0.00	24 mph
09/11/2001 [10:00 AM-11:00 AM]	28.59	28.50	31.00	23.50	0.00	0.00	0.00	0.00	28 mph
09/11/2001 [11:00 AM-12:00 PM]	27.20	36.00	0.00	26.00	0.00	0.00	0.00	0.00	27 mph
09/11/2001 [12:00 PM-01:00 PM]	29.00	36.00	26.00	26.00	0.00	0.00	0.00	0.00	29 mph
09/11/2001 [01:00 PM-02:00 PM]	25.26	0.00	26.00	0.00	0.00	0.00	0.00	0.00	25 mph
09/11/2001 [02:00 PM-03:00 PM]	27.09	0.00	27.67	21.00	21.00	0.00	0.00	0.00	27 mph
09/11/2001 [03:00 PM-04:00 PM]	29.39	0.00	27.11	29.33	31.00	0.00	0.00	0.00	29 mph
09/11/2001 [04:00 PM-05:00 PM]	25.00	33.50	26.00	21.00	0.00	0.00	0.00	0.00	25 mph
09/11/2001 [05:00 PM-06:00 PM]	28.20	26.00	28.50	36.00	0.00	0.00	0.00	0.00	28 mph
09/11/2001 [06:00 PM-07:00 PM]	27.00	26.00	31.00	0.00	0.00	0.00	0.00	0.00	27 mph
09/11/2001 [07:00 PM-08:00 PM]	28.57	0.00	29.33	26.00	0.00	0.00	0.00	0.00	28 mph
09/11/2001 [08:00 PM-09:00 PM]	21.42	31.00	31.00	26.00	0.00	0.00	0.00	0.00	23 mph
09/11/2001 [09:00 PM-10:00 PM]	26.83	0.00	0.00	21.00	0.00	0.00	0.00	0.00	26 mph
09/11/2001 [10:00 PM-11:00 PM]	22.88	0.00	31.00	0.00	0.00	0.00	0.00	0.00	24 mph
09/11/2001 [11:00 PM-12:00 AM]	24.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24 mph
09/12/2001 [12:00 AM-01:00 AM]	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26 mph
09/12/2001 [01:00 AM-02:00 AM]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0 mph
09/12/2001 [02:00 AM-03:00 AM]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0 mph
09/12/2001 [03:00 AM-04:00 AM]	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21 mph
09/12/2001 [04:00 AM-05:00 AM]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0 mph
09/12/2001 [05:00 AM-06:00 AM]	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26 mph
09/12/2001 [06:00 AM-07:00 AM]	30.23	0.00	31.00	0.00	0.00	0.00	0.00	0.00	30 mph
09/12/2001 [07:00 AM-08:00 AM]	30.47	0.00	36.00	34.00	31.00	0.00	0.00	0.00	31 mph
09/12/2001 [08:00 AM-09:00 AM]	29.80	0.00	25.75	23.50	0.00	0.00	0.00	0.00	29 mph
09/12/2001 [09:00 AM-10:00 AM]	26.29	0.00	31.00	16.00	0.00	0.00	0.00	0.00	26 mph
09/12/2001 [10:00 AM-11:00 AM]	27.67	0.00	31.00	21.00	0.00	0.00	0.00	0.00	27 mph
09/12/2001 [11:00 AM-12:00 PM]	28.25	16.00	24.75	39.33	26.00	0.00	0.00	0.00	28 mph
09/12/2001 [12:00 PM-01:00 PM]	27.50	0.00	26.00	28.50	0.00	0.00	0.00	0.00	27 mph
09/12/2001 [01:00 PM-02:00 PM]	26.25	0.00	21.00	46.00	0.00	0.00	0.00	0.00	27 mph
09/12/2001 [02:00 PM-03:00 PM]	26.92	0.00	23.50	21.00	0.00	0.00	0.00	0.00	27 mph
09/12/2001 [03:00 PM-04:00 PM]	28.91	0.00	21.00	16.00	31.00	0.00	0.00	0.00	28 mph
09/12/2001 [04:00 PM-05:00 PM]	24.31	0.00	36.00	31.00	0.00	0.00	0.00	0.00	25 mph
09/12/2001 [05:00 PM-06:00 PM]	26.38	31.00	0.00	18.50	0.00	0.00	0.00	0.00	26 mph
09/12/2001 [06:00 PM-07:00 PM]	28.31	0.00	21.00	22.67	26.00	0.00	0.00	0.00	28 mph
09/12/2001 [07:00 PM-08:00 PM]	27.00	0.00	21.00	0.00	0.00	0.00	0.00	0.00	27 mph
09/12/2001 [08:00 PM-09:00 PM]	26.00	0.00	36.00	0.00	0.00	0.00	0.00	0.00	26 mph
09/12/2001 [09:00 PM-10:00 PM]	27.00	31.00	0.00	0.00	0.00	0.00	0.00	0.00	27 mph
09/12/2001 [10:00 PM-11:00 PM]	30.50	0.00	21.00	21.00	0.00	0.00	0.00	0.00	29 mph
09/12/2001 [11:00 PM-12:00 AM]	31.00	0.00	21.00	0.00	0.00	0.00	0.00	0.00	28 mph
09/13/2001 [12:00 AM-01:00 AM]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0 mph
09/13/2001 [01:00 AM-02:00 AM]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0 mph
09/13/2001 [02:00 AM-03:00 AM]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0 mph
09/13/2001 [03:00 AM-04:00 AM]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0 mph
09/13/2001 [04:00 AM-05:00 AM]	0.00	0.00	0.00	36.00	0.00	0.00	0.00	0.00	36 mph
09/13/2001 [05:00 AM-06:00 AM]	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26 mph
09/13/2001 [06:00 AM-07:00 AM]	31.00	31.00	0.00	0.00	0.00	0.00	0.00	0.00	31 mph

### Average Speed by Class Report

HI-Star ID: 7523 Street: W.B. 17th at Lalonde/16th State: IL City: LOMBARD County: DUPAGE		Begin: 09/11/2001 09:00 AM Lane: Oper: EP Posted: 25 AADT Factor: 1			End: 09/13/2001 07:00 AM Hours: 46:00 Period: 60 Raw Count: 1056 AADT Count: 551				
NC90A - Feet	0	21	28	40	50	60	69	81	
Date & Time Range	to	to	to	to	to	to	to	>	Avg Speed
	20	27	39	49	59	68	80		

Report Totals:                              27.02   28.50   27.47   26.17   28.86   0.00   0.00   0.00

**Nu-Metrics Traffic Analyzer Study  
Computer Generated Summary Report  
City: LOMBARD  
Street: E.B. 18th bet Lalonde&Stewart**

A study of vehicle traffic was conducted with HI-STAR unit number 2262. The study was done in the lane on E.B. 18th bet Lalonde&Stewart in LOMBARD, IL in DUPAGE county. The study began on 11/27/2001 at 11:00 AM and concluded on 11/29/2001 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 416 vehicles passed through the location with a peak volume of 23 on 11/27/2001 at 05:00 PM and a minimum volume of 0 on 11/28/2001 at 02:00 AM. The AADT Count for this study was 208.

**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	7	36	59	133	111	37	20	1	6	2	1	0	0	1

At least half of the vehicles were traveling in the 26 - 30 mph range or a lower speed. The average speed for all classified vehicles was 28 mph with 75.3 percent exceeding the posted speed of 25 mph. The HI-STAR found 43.2 percent of the total vehicles were traveling in excess of 30 mph. The mode speed for this traffic study was 26 mph and the 85th percentile was 32.30 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 >
386	17	10	1	0	0	0	0

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 403 which represents 97.30 percent of the total classified vehicles. The number of Small Trucks in the study was 10 which represents 2.40 percent of the total classified vehicles. The number of Trucks/Busses in the study was 1 which represents 0.20 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 11/27/2001 at 05:00 PM the average headway between the vehicles was 150.0 seconds. The slowest traffic period was on 11/28/2001 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 41 and 52 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.00 percent of the time.

## Time/Speed Report

HI-Star ID: 2262	Begin: 11/27/2001 11:00 AM	End: 11/29/2001 11:00 AM
Street: E.B. 18th bet Lalonde&Stewart	Lane:	Hours: 48:00
State: IL	Oper: EP	Period: 60
City: LOMBARD	Posted: 25	Raw Count: 416
County: DUPAGE	AADT Factor: 1	AADT Count: 208

NC97 - mph	0	11	16	21	26	31	36	41	46	51	56	60	65	70	75	
Date & Time Range	to	to	to	to	to	to	to	to	to	to	to	to	to	to	>	Total
	10	15	20	25	30	35	40	45	50	55	59	64	69	74		
11/27/2001 [11:00 AM-12:00 PM]	0	1	1	0	9	2	0	0	0	0	0	0	0	0	0	13
11/27/2001 [12:00 PM-01:00 PM]	0	0	0	2	0	3	3	3	0	1	0	0	0	0	1	13
11/27/2001 [01:00 PM-02:00 PM]	0	0	1	4	8	2	2	0	0	1	0	0	0	0	0	18
11/27/2001 [02:00 PM-03:00 PM]	0	1	0	2	3	3	1	1	0	0	0	0	0	0	0	11
11/27/2001 [03:00 PM-04:00 PM]	0	0	1	1	4	3	1	0	1	1	0	0	0	0	0	12
11/27/2001 [04:00 PM-05:00 PM]	0	0	2	3	0	4	2	1	0	0	0	0	0	0	0	12
11/27/2001 [05:00 PM-06:00 PM]	0	0	4	3	9	5	1	0	0	1	0	0	0	0	0	23
11/27/2001 [06:00 PM-07:00 PM]	0	0	0	0	4	3	0	1	0	0	0	0	0	0	0	8
11/27/2001 [07:00 PM-08:00 PM]	0	0	1	2	2	2	1	1	0	0	0	0	0	0	0	9
11/27/2001 [08:00 PM-09:00 PM]	0	1	0	1	2	4	0	0	0	1	0	0	0	0	0	9
11/27/2001 [09:00 PM-10:00 PM]	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0	4
11/27/2001 [10:00 PM-11:00 PM]	0	0	4	0	2	0	0	0	0	0	0	0	0	0	0	6
11/27/2001 [11:00 PM-12:00 AM]	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Daily Totals:																
	0		14		45		11		1		0		0		1	
		3		19		33		7		5		0		0		139
11/28/2001 [12:00 AM-01:00 AM]	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
11/28/2001 [01:00 AM-02:00 AM]	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	2
11/28/2001 [02:00 AM-03:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/28/2001 [03:00 AM-04:00 AM]	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
11/28/2001 [04:00 AM-05:00 AM]	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
11/28/2001 [05:00 AM-06:00 AM]	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2
11/28/2001 [06:00 AM-07:00 AM]	0	0	1	2	0	1	0	0	0	0	0	0	0	0	0	4
11/28/2001 [07:00 AM-08:00 AM]	0	0	1	2	7	5	2	0	0	0	0	0	0	0	0	17
11/28/2001 [08:00 AM-09:00 AM]	0	0	0	2	2	8	3	3	0	0	0	0	0	0	0	18
11/28/2001 [09:00 AM-10:00 AM]	0	0	1	0	1	1	5	1	0	0	1	1	0	0	0	11
11/28/2001 [10:00 AM-11:00 AM]	0	0	2	2	3	2	1	0	0	0	0	0	0	0	0	10
11/28/2001 [11:00 AM-12:00 PM]	0	0	2	2	5	3	1	1	0	0	0	0	0	0	0	14
11/28/2001 [12:00 PM-01:00 PM]	0	0	0	0	5	5	3	1	0	0	0	0	0	0	0	14
11/28/2001 [01:00 PM-02:00 PM]	0	1	0	1	3	5	0	1	0	0	0	0	0	0	0	11
11/28/2001 [02:00 PM-03:00 PM]	0	0	1	8	5	4	3	1	0	0	0	0	0	0	0	22
11/28/2001 [03:00 PM-04:00 PM]	0	1	0	1	2	3	0	0	0	0	0	0	0	0	0	7
11/28/2001 [04:00 PM-05:00 PM]	0	0	2	1	4	8	1	0	0	1	1	0	0	0	0	18
11/28/2001 [05:00 PM-06:00 PM]	0	0	3	3	5	7	0	0	0	0	0	0	0	0	0	18
11/28/2001 [06:00 PM-07:00 PM]	0	1	2	2	10	4	1	2	0	0	0	0	0	0	0	22
11/28/2001 [07:00 PM-08:00 PM]	0	0	2	2	2	2	1	1	0	0	0	0	0	0	0	10
11/28/2001 [08:00 PM-09:00 PM]	0	0	2	2	3	1	0	1	0	0	0	0	0	0	0	9
11/28/2001 [09:00 PM-10:00 PM]	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	4
11/28/2001 [10:00 PM-11:00 PM]	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1



## Time/Speed Report

HI-Star ID: 2262	Begin: 11/27/2001 11:00 AM	End: 11/29/2001 11:00 AM
Street: E.B. 18th bet Lalonde&Stewart	Lane:	Hours: 48:00
State: IL	Oper: EP	Period: 60
City: LOMBARD	Posted: 25	Raw Count: 416
County: DUPAGE	AADT Factor: 1	AADT Count: 208

NC97 - mph	0	11	16	21	26	31	36	41	46	51	56	60	65	70	75	
Date & Time Range	to	to	to	to	to	to	to	to	to	to	to	to	to	to	>	Total

11/28/2001 [11:00 PM-12:00 AM]	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	3
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Daily Totals:	0	3	20	32	66	60	23	12	0	1	2	1	0	0	0	0	220
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11/29/2001 [12:00 AM-01:00 AM]	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2
11/29/2001 [01:00 AM-02:00 AM]	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
11/29/2001 [02:00 AM-03:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/29/2001 [03:00 AM-04:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/29/2001 [04:00 AM-05:00 AM]	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2
11/29/2001 [05:00 AM-06:00 AM]	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2
11/29/2001 [06:00 AM-07:00 AM]	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	3
11/29/2001 [07:00 AM-08:00 AM]	0	0	1	2	7	2	1	0	0	0	0	0	0	0	0	0	13
11/29/2001 [08:00 AM-09:00 AM]	0	1	0	1	2	8	1	0	0	0	0	0	0	0	0	0	13
11/29/2001 [09:00 AM-10:00 AM]	0	0	0	2	3	4	0	0	0	0	0	0	0	0	0	0	9
11/29/2001 [10:00 AM-11:00 AM]	0	0	0	0	8	1	1	0	0	0	0	0	0	0	0	0	10

Daily Totals:	0	1	2	8	22	18	3	1	0	0	0	0	0	0	0	0	55
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Report Totals:	0	7	36	59	133	111	37	20	1	6	2	1	0	0	1	0	414
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Report Percentages:	0.00%	8.70%	32.13%	8.94%	0.24%	0.48%	0.00%	0.24%	1.69%	14.25%	26.81%	4.83%	1.45%	0.24%	0.00%	0.00%
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### Average Speed by Class Report

HI-Star ID: 2262	Begin: 11/27/2001 11:00 AM	End: 11/29/2001 11:00 AM
Street: E.B. 18th bet Lalonde&Stewart Lane:	Hours: 48:00	
State: IL	Oper: EP	Period: 60
City: LOMBARD	Posted: 25	Raw Count: 416
County: DUPAGE	AADT Factor: 1	AADT Count: 208

NC97 - Feet	0	21	28	40	50	60	69	81	
Date & Time Range	to 20	to 27	to 39	to 49	to 59	to 68	to 80	>	Avg Speed
11/27/2001 [11:00 AM-12:00 PM]	24.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25 mph
11/27/2001 [12:00 PM-01:00 PM]	34.75	0.00	75.00	0.00	0.00	0.00	0.00	0.00	38 mph
11/27/2001 [01:00 PM-02:00 PM]	27.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27 mph
11/27/2001 [02:00 PM-03:00 PM]	27.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27 mph
11/27/2001 [03:00 PM-04:00 PM]	29.33	51.00	26.00	0.00	0.00	0.00	0.00	0.00	31 mph
11/27/2001 [04:00 PM-05:00 PM]	26.00	36.00	0.00	0.00	0.00	0.00	0.00	0.00	28 mph
11/27/2001 [05:00 PM-06:00 PM]	25.09	0.00	51.00	0.00	0.00	0.00	0.00	0.00	26 mph
11/27/2001 [06:00 PM-07:00 PM]	29.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30 mph
11/27/2001 [07:00 PM-08:00 PM]	27.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28 mph
11/27/2001 [08:00 PM-09:00 PM]	26.00	0.00	51.00	0.00	0.00	0.00	0.00	0.00	29 mph
11/27/2001 [09:00 PM-10:00 PM]	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26 mph
11/27/2001 [10:00 PM-11:00 PM]	19.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19 mph
11/27/2001 [11:00 PM-12:00 AM]	31.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31 mph
11/28/2001 [12:00 AM-01:00 AM]	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26 mph
11/28/2001 [01:00 AM-02:00 AM]	31.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31 mph
11/28/2001 [02:00 AM-03:00 AM]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0 mph
11/28/2001 [03:00 AM-04:00 AM]	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26 mph
11/28/2001 [04:00 AM-05:00 AM]	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26 mph
11/28/2001 [05:00 AM-06:00 AM]	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18 mph
11/28/2001 [06:00 AM-07:00 AM]	22.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22 mph
11/28/2001 [07:00 AM-08:00 AM]	27.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27 mph
11/28/2001 [08:00 AM-09:00 AM]	31.29	0.00	0.00	41.00	0.00	0.00	0.00	0.00	32 mph
11/28/2001 [09:00 AM-10:00 AM]	35.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	37 mph
11/28/2001 [10:00 AM-11:00 AM]	23.78	0.00	36.00	0.00	0.00	0.00	0.00	0.00	25 mph
11/28/2001 [11:00 AM-12:00 PM]	26.77	26.00	0.00	0.00	0.00	0.00	0.00	0.00	27 mph
11/28/2001 [12:00 PM-01:00 PM]	31.38	26.00	0.00	0.00	0.00	0.00	0.00	0.00	31 mph
11/28/2001 [01:00 PM-02:00 PM]	27.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28 mph
11/28/2001 [02:00 PM-03:00 PM]	26.53	33.50	16.00	0.00	0.00	0.00	0.00	0.00	27 mph
11/28/2001 [03:00 PM-04:00 PM]	24.33	31.00	0.00	0.00	0.00	0.00	0.00	0.00	25 mph
11/28/2001 [04:00 PM-05:00 PM]	29.33	51.00	28.50	0.00	0.00	0.00	0.00	0.00	30 mph
11/28/2001 [05:00 PM-06:00 PM]	25.41	26.00	0.00	0.00	0.00	0.00	0.00	0.00	25 mph
11/28/2001 [06:00 PM-07:00 PM]	26.75	26.00	0.00	0.00	0.00	0.00	0.00	0.00	27 mph
11/28/2001 [07:00 PM-08:00 PM]	26.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26 mph
11/28/2001 [08:00 PM-09:00 PM]	22.88	41.00	0.00	0.00	0.00	0.00	0.00	0.00	25 mph
11/28/2001 [09:00 PM-10:00 PM]	27.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27 mph
11/28/2001 [10:00 PM-11:00 PM]	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26 mph
11/28/2001 [11:00 PM-12:00 AM]	27.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28 mph
11/29/2001 [12:00 AM-01:00 AM]	33.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34 mph
11/29/2001 [01:00 AM-02:00 AM]	31.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31 mph
11/29/2001 [02:00 AM-03:00 AM]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0 mph
11/29/2001 [03:00 AM-04:00 AM]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0 mph
11/29/2001 [04:00 AM-05:00 AM]	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26 mph
11/29/2001 [05:00 AM-06:00 AM]	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21 mph
11/29/2001 [06:00 AM-07:00 AM]	24.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24 mph
11/29/2001 [07:00 AM-08:00 AM]	26.83	16.00	0.00	0.00	0.00	0.00	0.00	0.00	26 mph
11/29/2001 [08:00 AM-09:00 AM]	28.73	21.00	31.00	0.00	0.00	0.00	0.00	0.00	28 mph

### Average Speed by Class Report

HI-Star ID: 2262		Begin: 11/27/2001 11:00 AM			End: 11/29/2001 11:00 AM				
Street: E.B. 18th bet Lalonde&Stewart Lane:		Hours: 48:00			Period: 60				
State: IL		Oper: EP			Raw Count: 416				
City: LOMBARD		Posted: 25			AADT Count: 208				
County: DUPAGE		AADT Factor: 1							

  

NC97 - Feet	0	21	28	40	50	60	69	81	
Date & Time Range	to	to	to	to	to	to	to	>	Avg Speed
	20	27	39	49	59	68	80		
11/29/2001 [09:00 AM-10:00 AM]	27.88	21.00	0.00	0.00	0.00	0.00	0.00	0.00	27 mph
11/29/2001 [10:00 AM-11:00 AM]	27.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28 mph
<b>Report Totals:</b>	<b>27.05</b>	<b>33.25</b>	<b>39.31</b>	<b>41.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	

**Nu-Metrics Traffic Analyzer Study  
Computer Generated Summary Report  
City: LOMBARD  
Street: W.B. 18th bet Lalonde&Stewart**

A study of vehicle traffic was conducted with HI-STAR unit number 9136. The study was done in the lane on W.B. 18th bet Lalonde&Stewart in LOMBARD, IL in DUPAGE county. The study began on 11/27/2001 at 11:00 AM and concluded on 11/29/2001 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 291 vehicles passed through the location with a peak volume of 17 on 11/27/2001 at 01:00 PM and a minimum volume of 0 on 11/27/2001 at 08:00 PM. The AADT Count for this study was 146.

**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	1	9	29	57	62	48	15	2	0	0	0	0	0	0

At least half of the vehicles were traveling in the 31 - 35 mph range or a lower speed. The average speed for all classified vehicles was 30 mph with 82.5 percent exceeding the posted speed of 25 mph. The HI-STAR found 56.9 percent of the total vehicles were traveling in excess of 30 mph. The mode speed for this traffic study was 31 mph and the 85th percentile was 34.79 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 >
207	3	7	6	0	0	0	0

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 210 which represents 94.20 percent of the total classified vehicles. The number of Small Trucks in the study was 7 which represents 3.10 percent of the total classified vehicles. The number of Trucks/Busses in the study was 6 which represents 2.70 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 11/27/2001 at 01:00 PM the average headway between the vehicles was 200.0 seconds. The slowest traffic period was on 11/27/2001 at 08:00 PM. During this slowest period, the average headway was 3600.0 seconds.

**WEATHER**

The roadway surface temperature over the period of the study varied between 42 and 52 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 85.42 percent of the time.

## Time/Speed Report

HI-Star ID: 9136	Begin: 11/27/2001 11:00 AM	End: 11/29/2001 11:00 AM
Street: W.B. 18th bet Lalonde&Stewart Lane:	Hours: 48:00	
State: IL	Oper: EP	Period: 60
City: LOMBARD	Posted: 25	Raw Count: 291
County: DUPAGE	AADT Factor: 1	AADT Count: 146

NC90A - mph	0	11	16	21	26	31	36	41	46	51	56	60	65	70	75	
Date & Time Range	to	to	to	to	to	to	to	to	to	to	to	to	to	to	>	Total
	10	15	20	25	30	35	40	45	50	55	59	64	69	74		
11/27/2001 [11:00 AM-12:00 PM]	0	0	0	0	1	3	2	0	0	0	0	0	0	0	0	6
11/27/2001 [12:00 PM-01:00 PM]	0	0	0	1	4	3	3	1	0	0	0	0	0	0	0	12
11/27/2001 [01:00 PM-02:00 PM]	0	0	1	4	2	5	2	1	0	0	0	0	0	0	0	15
11/27/2001 [02:00 PM-03:00 PM]	0	0	0	2	1	1	1	0	0	0	0	0	0	0	0	5
11/27/2001 [03:00 PM-04:00 PM]	0	0	1	1	1	2	0	0	1	0	0	0	0	0	0	6
11/27/2001 [04:00 PM-05:00 PM]	0	0	1	1	2	3	2	1	0	0	0	0	0	0	0	10
11/27/2001 [05:00 PM-06:00 PM]	0	0	0	0	2	3	1	2	0	0	0	0	0	0	0	8
11/27/2001 [06:00 PM-07:00 PM]	0	0	2	1	1	3	1	0	0	0	0	0	0	0	0	8
11/27/2001 [07:00 PM-08:00 PM]	0	0	0	0	3	0	1	0	0	0	0	0	0	0	0	4
11/27/2001 [08:00 PM-09:00 PM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2001 [09:00 PM-10:00 PM]	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	3
11/27/2001 [10:00 PM-11:00 PM]	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
11/27/2001 [11:00 PM-12:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Totals:</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>17</b>	<b>15</b>	<b>5</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>78</b>
11/28/2001 [12:00 AM-01:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/28/2001 [01:00 AM-02:00 AM]	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
11/28/2001 [02:00 AM-03:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/28/2001 [03:00 AM-04:00 AM]	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
11/28/2001 [04:00 AM-05:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/28/2001 [05:00 AM-06:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/28/2001 [06:00 AM-07:00 AM]	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	3
11/28/2001 [07:00 AM-08:00 AM]	0	0	0	2	1	2	1	1	0	0	0	0	0	0	0	7
11/28/2001 [08:00 AM-09:00 AM]	0	0	2	0	0	2	6	2	0	0	0	0	0	0	0	12
11/28/2001 [09:00 AM-10:00 AM]	0	0	0	0	1	3	1	3	0	0	0	0	0	0	0	8
11/28/2001 [10:00 AM-11:00 AM]	0	0	1	2	3	0	1	0	0	0	0	0	0	0	0	7
11/28/2001 [11:00 AM-12:00 PM]	0	0	0	1	2	0	2	0	0	0	0	0	0	0	0	5
11/28/2001 [12:00 PM-01:00 PM]	0	0	0	0	0	3	2	0	0	0	0	0	0	0	0	5
11/28/2001 [01:00 PM-02:00 PM]	0	0	0	0	2	1	2	0	0	0	0	0	0	0	0	5
11/28/2001 [02:00 PM-03:00 PM]	0	0	0	1	1	3	3	0	0	0	0	0	0	0	0	8
11/28/2001 [03:00 PM-04:00 PM]	0	0	1	0	5	0	2	1	0	0	0	0	0	0	0	9
11/28/2001 [04:00 PM-05:00 PM]	0	0	0	6	2	1	3	1	0	0	0	0	0	0	0	13
11/28/2001 [05:00 PM-06:00 PM]	0	0	0	0	3	5	0	0	0	0	0	0	0	0	0	8
11/28/2001 [06:00 PM-07:00 PM]	0	0	0	0	1	3	1	0	0	0	0	0	0	0	0	5
11/28/2001 [07:00 PM-08:00 PM]	0	0	0	2	1	1	0	0	0	0	0	0	0	0	0	4
11/28/2001 [08:00 PM-09:00 PM]	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
11/28/2001 [09:00 PM-10:00 PM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/28/2001 [10:00 PM-11:00 PM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

## Time/Speed Report

HI-Star ID: 9136	Begin: 11/27/2001 11:00 AM	End: 11/29/2001 11:00 AM
Street: W.B. 18th bet Lalonde&Stewart Lane:	Oper: EP	Hours: 48:00
State: IL	Posted: 25	Period: 60
City: LOMBARD	AAADT Factor: 1	Raw Count: 291
County: DUPAGE		AAADT Count: 146

NC90A - mph	0	11	16	21	26	31	36	41	46	51	56	60	65	70	75	
Date & Time Range	to	to	to	to	to	to	to	to	to	to	to	to	to	to	>	Total

11/28/2001 [11:00 PM-12:00 AM]	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
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Daily Totals:	0	0	4	15	26	25	26	8	0	0	0	0	0	0	0	0	104
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11/29/2001 [12:00 AM-01:00 AM]	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
11/29/2001 [01:00 AM-02:00 AM]	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
11/29/2001 [02:00 AM-03:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/29/2001 [03:00 AM-04:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/29/2001 [04:00 AM-05:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/29/2001 [05:00 AM-06:00 AM]	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
11/29/2001 [06:00 AM-07:00 AM]	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
11/29/2001 [07:00 AM-08:00 AM]	0	0	0	0	5	6	4	0	0	0	0	0	0	0	0	0	15
11/29/2001 [08:00 AM-09:00 AM]	0	0	0	2	3	4	0	1	1	0	0	0	0	0	0	0	11
11/29/2001 [09:00 AM-10:00 AM]	0	0	0	0	4	2	0	1	0	0	0	0	0	0	0	0	7
11/29/2001 [10:00 AM-11:00 AM]	0	1	0	1	0	1	1	0	0	0	0	0	0	0	0	0	4

Daily Totals:	0	1	0	3	14	13	7	2	1	0	0	0	0	0	0	0	41
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Report Totals:	0	1	9	29	57	62	48	15	2	0	0	0	0	0	0	0	223
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Report Percentages:	0.00%	0.45%	4.04%	13.00%	25.56%	27.80%	21.52%	6.73%	0.90%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
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### Average Speed by Class Report

HI-Star ID: 9136 Street: W.B. 18th bet Lalonde&Stewart State: IL City: LOMBARD County: DUPAGE	Begin: 11/27/2001 11:00 AM Lane: Oper: EP Posted: 25 AADT Factor: 1	End: 11/29/2001 11:00 AM Hours: 48:00 Period: 60 Raw Count: 291 AADT Count: 146
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NC90A - Feet	0	21	28	40	50	60	69	81	
Date & Time Range	to 20	to 27	to 39	to 49	to 59	to 68	to 80	>	Avg Speed
11/27/2001 [11:00 AM-12:00 PM]	31.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32 mph
11/27/2001 [12:00 PM-01:00 PM]	30.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31 mph
11/27/2001 [01:00 PM-02:00 PM]	28.86	0.00	16.00	0.00	0.00	0.00	0.00	0.00	28 mph
11/27/2001 [02:00 PM-03:00 PM]	27.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27 mph
11/27/2001 [03:00 PM-04:00 PM]	32.25	0.00	26.00	16.00	0.00	0.00	0.00	0.00	28 mph
11/27/2001 [04:00 PM-05:00 PM]	29.89	0.00	26.00	0.00	0.00	0.00	0.00	0.00	30 mph
11/27/2001 [05:00 PM-06:00 PM]	32.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33 mph
11/27/2001 [06:00 PM-07:00 PM]	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26 mph
11/27/2001 [07:00 PM-08:00 PM]	28.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28 mph
11/27/2001 [08:00 PM-09:00 PM]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0 mph
11/27/2001 [09:00 PM-10:00 PM]	34.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34 mph
11/27/2001 [10:00 PM-11:00 PM]	0.00	0.00	0.00	21.00	0.00	0.00	0.00	0.00	21 mph
11/27/2001 [11:00 PM-12:00 AM]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0 mph
11/28/2001 [12:00 AM-01:00 AM]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0 mph
11/28/2001 [01:00 AM-02:00 AM]	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26 mph
11/28/2001 [02:00 AM-03:00 AM]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0 mph
11/28/2001 [03:00 AM-04:00 AM]	36.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36 mph
11/28/2001 [04:00 AM-05:00 AM]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0 mph
11/28/2001 [05:00 AM-06:00 AM]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0 mph
11/28/2001 [06:00 AM-07:00 AM]	31.00	0.00	21.00	0.00	0.00	0.00	0.00	0.00	28 mph
11/28/2001 [07:00 AM-08:00 AM]	29.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30 mph
11/28/2001 [08:00 AM-09:00 AM]	36.00	0.00	16.00	16.00	0.00	0.00	0.00	0.00	33 mph
11/28/2001 [09:00 AM-10:00 AM]	36.00	26.00	0.00	0.00	0.00	0.00	0.00	0.00	35 mph
11/28/2001 [10:00 AM-11:00 AM]	24.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25 mph
11/28/2001 [11:00 AM-12:00 PM]	29.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29 mph
11/28/2001 [12:00 PM-01:00 PM]	33.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33 mph
11/28/2001 [01:00 PM-02:00 PM]	31.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31 mph
11/28/2001 [02:00 PM-03:00 PM]	31.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31 mph
11/28/2001 [03:00 PM-04:00 PM]	29.57	0.00	26.00	26.00	0.00	0.00	0.00	0.00	29 mph
11/28/2001 [04:00 PM-05:00 PM]	26.45	31.00	0.00	36.00	0.00	0.00	0.00	0.00	28 mph
11/28/2001 [05:00 PM-06:00 PM]	29.57	26.00	0.00	0.00	0.00	0.00	0.00	0.00	29 mph
11/28/2001 [06:00 PM-07:00 PM]	31.00	0.00	0.00	31.00	0.00	0.00	0.00	0.00	31 mph
11/28/2001 [07:00 PM-08:00 PM]	24.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25 mph
11/28/2001 [08:00 PM-09:00 PM]	26.00	0.00	26.00	0.00	0.00	0.00	0.00	0.00	26 mph
11/28/2001 [09:00 PM-10:00 PM]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0 mph
11/28/2001 [10:00 PM-11:00 PM]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0 mph
11/28/2001 [11:00 PM-12:00 AM]	31.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31 mph
11/29/2001 [12:00 AM-01:00 AM]	36.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36 mph
11/29/2001 [01:00 AM-02:00 AM]	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26 mph
11/29/2001 [02:00 AM-03:00 AM]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0 mph
11/29/2001 [03:00 AM-04:00 AM]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0 mph
11/29/2001 [04:00 AM-05:00 AM]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0 mph
11/29/2001 [05:00 AM-06:00 AM]	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26 mph
11/29/2001 [06:00 AM-07:00 AM]	36.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36 mph
11/29/2001 [07:00 AM-08:00 AM]	30.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31 mph

### Average Speed by Class Report

HI-Star ID: 9136 Street: W.B. 18th bet Lalonde&Stewart State: IL City: LOMBARD County: DUPAGE	Begin: 11/27/2001 11:00 AM Lane: Oper: EP Posted: 25 AADT Factor: 1	End: 11/29/2001 11:00 AM Hours: 48:00 Period: 60 Raw Count: 291 AADT Count: 146
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NC90A - Feet	0	21	28	40	50	60	69	81		
Date & Time Range	to	to	to	to	to	to	to	>		Avg Speed
	20	27	39	49	59	68	80			

11/29/2001 [08:00 AM-09:00 AM]	30.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30 mph
11/29/2001 [09:00 AM-10:00 AM]	29.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30 mph
11/29/2001 [10:00 AM-11:00 AM]	24.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25 mph

Report Totals:                      30.07   27.67   22.43   24.33   0.00   0.00   0.00   0.00