Memorandum

The City of Traverse City
Engineering Department

TO: Timothy J. Lodge, P.E., City Engineer
FROM: Jessica Cichowski, Engineering Technician
DATE: December 3, 2013
SUBJECT: 2-Week Long Speed Study of Sheridan Rd, North of S Orchard Dr

City Engineering performed an on-site 2-week long speed count beginning Monday, November 18, 2013 at 3 pm until Sunday, December 1, 2013 at 10 am on Sheridan Rd, north of S Orchard Dr. This memo is to formalize City Engineering's initial findings and observations with regard to the speeds of vehicles on Sheridan Rd, north of S Orchard Dr, after the addition of shoulder stripes along Sheridan Rd.

The data was gathered using a Jamar Radar Recorder which collected traffic data, including vehicle speed, for each lane of traffic (northbound and southbound). This information was then analyzed and the data for each lane compiled into one report, regardless of direction, using TraxPro. The TraxPro report organized the speeds of the vehicles into groups based on 5 mile per hour increments, starting with 0-15 miles per hour. The report shows how many vehicles were within the specified speed range during the time indicated by the report.

During the 2-week long study, 3207 vehicles were recorded on this section of Sheridan Rd with about 43 percent of the vehicles traveling between 15 and 24 miles per hour and an average speed of 17 miles per hour. About 84 percent of the vehicles were recorded going speeds at or below the posted speed limit of 25 miles per hour.

A 9-day speed study was conducted on this section of Sheridan Rd before the shoulders were striped from Friday, September 20, 2013 to Monday, September 30, 2013. The average speed of the vehicles recorded during the study was 25 mph. About 36 percent of these vehicles were recorded going speeds at or below the posted speed limit of 25 miles per hour.

The post-striping average speed is 8 miles per hour less than the pre-striping average speed with the percent of vehicles traveling above the speed limit decreased by 48 percent after the improvements were made to Sheridan Rd. It should be noted that some of the decrease in speed could be due to winter conditions being present for part of the duration of the speed count.

Summary:

- Speed Limit: 25 mph
- Number of Recorded Vehicles (2 weeks): 3207
- Percent of Vehicles Over Speed Limit: 16.3 %
- Average Speed: 17 mph
- 10 Mile Per Hour Pace Speed: 15-24 mph
- 85th Percentile: 24 mph
- 95th Percentile: 29 mph

Encl.: Detailed TraxPro Speed Report

Sheridan St

(N of South Orchard)

Speed

Site Code: 00000001
Station ID:

Latitude: 0' 0.0000 South

Direction 1, Direction 2

Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace
11/18/13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	3	7	14	6	**3**	0	0	0	0	0	0	0	0	0	33	19-28	17
16:00	7	6	12	**7**	2	**1**	0	0	0	0	0	0	0	0	**35**	18-27	15
17:00	4	6	**19**	0	0	0	0	0	0	0	0	0	0	0	29	16-25	19
18:00	**12**	4	8	1	0	0	0	0	0	0	0	0	0	0	25	4-13	13
19:00	10	**10**	7	2	0	1	0	0	0	0	0	0	0	0	30	7-16	14
20:00	0	4	5	1	0	0	0	0	0	0	0	0	0	0	10	14-23	7
21:00	3	1	1	0	1	0	0	0	0	0	0	0	0	0	6	7-16	3
22:00	1	0	2	0	1	0	0	0	0	0	0	0	0	**1**	5	16-25	2
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
Total	40	38	68	17	7	2	0	0	0	0	0	0	0	1	173		
Percent	23.1%	22.0%	39.3%	9.8%	4.0%	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6%			
AM Peak Vol.																	
PM Peak Vol.	18:00 12	19:00 10	17:00 19	16:00 7	15:00 3	16:00 1								22:00 1	16:00 35		

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Speed

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Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace
11/19/13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
03:00	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	10-19	2
04:00	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2	5-14	1
05:00	0	1	0	0	**1**	0	0	0	0	0	0	0	0	0	2	13-22	1
06:00	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2-11	2
07:00	**4**	**14**	**8**	**4**	1	0	0	0	0	0	0	0	0	0	**31**	13-22	17
08:00	3	7	7	3	1	**1**	0	0	0	0	0	0	0	0	22	15-24	11
09:00	3	5	2	2	1	0	0	0	0	0	0	0	0	0	13	12-21	6
10:00	0	3	0	1	0	0	0	0	0	0	0	0	0	0	4	10-19	3
11:00	4	7	5	2	1	0	0	0	0	0	0	0	0	0	19	14-23	9
12 PM	**10**	8	5	1	2	0	0	0	0	0	0	0	0	0	26	7-16	13
13:00	3	2	10	1	0	0	0	0	0	0	0	0	0	0	16	18-27	10
14:00	0	3	6	2	0	0	0	0	0	0	0	0	0	0	11	17-26	8
15:00	2	**14**	**24**	**10**	**4**	0	0	0	0	0	0	0	0	0	**54**	18-27	31
16:00	5	10	11	3	2	0	0	0	0	0	0	0	0	0	31	16-25	15
17:00	10	10	15	7	1	0	0	0	0	0	0	0	0	0	43	18-27	18
18:00	5	3	12	5	2	**1**	0	0	0	0	0	0	**1**	**2**	31	19-28	14
19:00	3	9	8	5	1	0	0	0	0	0	0	0	0	1	27	14-23	13
20:00	2	3	4	3	0	1	0	0	0	0	0	0	0	0	13	16-25	6
21:00	1	2	4	0	2	0	0	0	0	0	0	0	0	2	11	16-25	5
22:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	14-23	1
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
Total	58	103	123	49	19	3	0	0	0	0	0	0	1	5	361		
Percent	16.1%	28.5%	34.1%	13.6%	5.3%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	1.4%			
AM Peak	07:00	07:00	07:00	07:00	05:00	08:00									07:00		
Vol.	4	14	8	4	1	1									31		
PM Peak	12:00	15:00	15:00	15:00	15:00	18:00							18:00	18:00	15:00		
Vol.	10	14	24	10	4	1							1	2	54		

Sheridan St
(N of South Orchard)
Speed

Site Code: 00000001
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Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace
11/20/13	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	19-28	1
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
04:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	*	1
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
06:00	2	0	1	0	0	0	0	0	0	0	0	0	0	0	3	1-10	2
07:00	1	3	6	0	0	0	0	0	0	0	0	0	0	0	10	16-25	7
08:00	**6**	**8**	**11**	**5**	**6**	0	0	**1**	0	0	0	0	0	2	**39**	16-25	15
09:00	0	7	5	2	0	0	0	0	0	0	0	0	0	0	14	15-24	9
10:00	2	2	1	1	5	0	0	0	0	0	0	0	0	**3**	14	27-36	5
11:00	3	7	11	2	5	0	0	0	0	0	0	0	0	1	29	15-24	14
12 PM	**12**	5	5	2	**4**	0	0	0	**1**	0	0	0	0	**1**	30	5-14	14
13:00	11	3	13	2	0	0	0	0	0	0	0	0	0	0	29	5-14	13
14:00	6	6	3	3	0	0	0	0	0	0	0	0	0	0	18	11-20	8
15:00	5	4	**17**	**8**	4	0	0	0	0	0	0	0	0	1	**39**	20-29	20
16:00	1	8	14	8	1	0	0	0	0	0	0	0	0	0	32	19-28	19
17:00	1	**9**	13	8	0	0	0	0	0	0	0	0	0	0	31	19-28	18
18:00	9	6	8	3	1	0	0	0	0	0	0	0	0	0	27	8-17	11
19:00	2	3	7	4	0	0	0	0	0	0	0	0	0	0	16	18-27	9
20:00	3	5	8	4	0	0	0	0	0	0	0	0	0	0	20	18-27	10
21:00	0	1	2	2	0	0	0	0	0	0	0	0	0	0	5	22-31	3
22:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	19-28	1
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
Total	65	77	125	56	26	0	0	1	1	0	0	0	0	8	359		
Percent	18.1%	21.4%	34.8%	15.6%	7.2%	0.0%	0.0%	0.3%	0.3%	0.0%	0.0%	0.0%	0.0%	2.2%			
AM Peak	08:00	08:00	08:00	08:00	08:00			08:00						10:00	08:00		
Vol.	6	8	11	5	6			1						3	39		
PM Peak	12:00	17:00	15:00	15:00	12:00				12:00					12:00	15:00		
Vol.	12	9	17	8	4				1					1	39		

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11/21/13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
03:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	*	1
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
06:00	0	1	2	0	0	0	0	0	0	0	0	0	0	0	3	19-28	2
07:00	**6**	6	4	1	0	0	0	0	0	0	0	0	0	0	17	11-20	8
08:00	2	**10**	**8**	**4**	0	**1**	0	0	0	0	0	0	0	0	**25**	14-23	14
09:00	0	7	7	3	**1**	0	0	0	0	0	0	0	0	0	18	14-23	11
10:00	4	4	3	3	0	0	0	0	0	0	0	0	0	0	14	6-15	6
11:00	2	6	7	1	0	0	0	0	0	0	0	0	0	0	16	17-26	9
12 PM	1	5	5	1	1	**1**	0	0	0	0	0	0	0	0	14	15-24	8
13:00	**7**	3	10	2	1	0	**1**	0	0	0	0	0	0	0	24	17-26	10
14:00	5	9	2	3	**3**	0	0	0	0	0	0	0	0	**1**	23	10-19	11
15:00	2	**13**	**29**	5	2	1	0	0	0	0	0	0	0	0	**52**	17-26	34
16:00	3	4	20	6	0	0	0	0	0	0	0	0	0	0	33	19-28	22
17:00	0	10	14	**7**	0	0	0	0	0	0	0	0	0	0	31	17-26	20
18:00	0	6	10	5	1	0	0	0	0	0	0	0	0	0	22	17-26	14
19:00	2	4	12	2	1	0	0	0	0	0	0	0	0	0	21	16-25	13
20:00	2	4	10	4	0	0	0	0	0	0	0	0	0	0	20	17-26	12
21:00	2	3	5	3	3	0	1	0	0	0	0	0	0	1	18	16-25	7
22:00	0	1	1	0	1	0	0	0	0	0	0	0	0	0	3	14-23	2
23:00	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	10-19	2
Total	39	98	149	50	14	3	2	0	0	0	0	0	0	2	357		
Percent	10.9%	27.5%	41.7%	14.0%	3.9%	0.8%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6%			
AM Peak	07:00	08:00	08:00	08:00	09:00	08:00									08:00		
Vol.	6	10	8	4	1	1									25		
PM Peak	13:00	15:00	15:00	17:00	14:00	12:00	13:00							14:00	15:00		
Vol.	7	13	29	7	3	1	1							1	52		

Sheridan St
(N of South Orchard)
Speed

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Station ID:

Latitude: 0' 0.0000 South

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Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace
11/22/13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
02:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	8-17	1
03:00	12	0	0	0	0	0	0	0	0	0	0	0	0	0	12	3-12	10
04:00	**14**	0	0	0	0	0	0	0	0	0	0	0	0	0	14	5-14	11
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
06:00	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2	12-21	1
07:00	7	5	3	0	**3**	0	0	0	0	0	0	0	0	0	18	6-15	9
08:00	3	**6**	**10**	3	1	0	0	0	0	0	0	0	0	0	**23**	17-26	12
09:00	3	4	6	3	0	0	0	0	0	0	0	0	0	0	16	16-25	8
10:00	2	3	0	3	0	0	0	0	0	0	0	0	0	0	8	8-17	4
11:00	5	3	7	**6**	0	0	0	0	0	0	0	0	0	0	21	20-29	10
12 PM	1	1	13	3	1	0	0	0	0	0	0	0	0	0	19	20-29	14
13:00	2	2	3	2	1	0	0	0	0	0	0	0	0	0	10	14-23	4
14:00	1	6	6	3	**3**	0	0	0	0	0	0	0	0	**1**	20	18-27	9
15:00	18	**15**	**18**	**9**	1	0	0	0	0	0	0	0	0	0	**61**	7-16	25
16:00	**19**	7	17	9	0	0	0	0	0	0	0	0	0	0	52	5-14	22
17:00	0	4	13	5	1	0	0	0	0	0	0	0	0	0	23	19-28	16
18:00	3	3	7	3	1	0	0	0	0	0	0	0	0	0	17	19-28	8
19:00	6	5	4	3	0	0	0	0	0	0	0	0	0	0	18	5-14	8
20:00	0	1	14	5	0	0	0	0	0	0	0	0	0	0	20	20-29	17
21:00	2	5	1	3	1	**1**	0	0	0	0	0	0	0	0	13	9-18	6
22:00	2	4	5	0	2	1	0	0	0	0	0	0	0	1	15	14-23	7
23:00	1	0	2	3	1	0	0	0	0	0	0	0	0	0	7	23-32	4
Total	102	76	129	63	16	2	0	0	0	0	0	0	0	2	390		
Percent	26.2%	19.5%	33.1%	16.2%	4.1%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%			
AM Peak	04:00	08:00	08:00	11:00	07:00										08:00		
Vol.	14	6	10	6	3										23		
PM Peak	16:00	15:00	15:00	15:00	14:00	21:00								14:00	15:00		
Vol.	19	15	18	9	3	1								1	61		

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Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace
11/23/13	0	1	1	1	0	0	0	0	0	0	0	0	0	0	3	14-23	2
01:00	0	0	1	0	0	**1**	0	0	0	0	0	0	0	0	2	14-23	1
02:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	14-23	1
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
04:00	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0	1	24-33	1
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
06:00	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7-16	2
07:00	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2-11	2
08:00	**5**	4	1	2	0	0	0	0	0	0	0	0	0	0	12	8-17	6
09:00	4	4	2	2	0	0	0	0	0	0	0	0	0	0	12	7-16	6
10:00	1	1	**4**	**3**	0	0	0	0	0	0	0	0	0	0	9	20-29	6
11:00	5	**7**	2	1	0	0	0	0	0	0	0	0	0	0	**15**	11-20	8
12 PM	5	5	4	2	0	0	0	0	0	0	0	0	0	0	16	11-20	7
13:00	10	1	5	**3**	0	0	0	0	0	0	0	0	0	0	19	5-14	10
14:00	17	**10**	0	0	0	0	0	0	0	0	0	0	0	0	27	6-15	17
15:00	12	8	2	0	0	0	0	0	0	0	0	0	0	0	22	5-14	13
16:00	**22**	7	3	1	0	0	0	0	0	0	0	0	0	0	**33**	4-13	21
17:00	3	3	**6**	1	0	0	0	0	0	0	0	0	0	0	13	18-27	6
18:00	4	3	4	1	0	0	0	0	0	0	0	0	0	0	12	8-17	5
19:00	4	1	2	0	0	0	0	0	0	0	0	0	0	0	7	5-14	4
20:00	4	2	1	1	0	0	0	0	0	0	0	0	0	0	8	8-17	4
21:00	1	4	3	1	0	0	0	0	0	0	0	0	0	0	9	16-25	5
22:00	0	1	5	0	0	0	0	0	0	0	0	0	0	0	6	18-27	5
23:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	8-17	1
Total	102	63	47	19	1	1	0	0	0	0	0	0	0	0	233		
Percent	43.8%	27.0%	20.2%	8.2%	0.4%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	08:00	11:00	10:00	10:00	04:00	01:00									11:00		
Vol.	5	7	4	3	1	1									15		
PM Peak	16:00	14:00	17:00	13:00											16:00		
Vol.	22	10	6	3											33		

Sheridan St
(N of South Orchard)
Speed

Site Code: 00000001
Station ID:

Latitude: 0' 0.0000 South

Direction 1, Direction 2

Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace
11/24/13	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2-11	2
01:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	*	1
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
04:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	8-17	1
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
06:00	**8**	3	0	0	0	0	0	0	0	0	0	0	0	0	11	7-16	7
07:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	14-23	1
08:00	1	2	0	1	0	0	0	0	0	0	0	0	0	0	4	12-21	2
09:00	2	4	2	1	0	0	0	0	0	0	0	0	0	0	9	10-19	5
10:00	3	3	4	0	0	0	0	0	0	0	0	0	0	0	10	13-22	5
11:00	6	**11**	**7**	**2**	0	0	0	0	0	0	0	0	0	0	**26**	12-21	14
12 PM	2	3	**6**	1	**1**	0	0	0	0	0	0	0	0	0	13	15-24	7
13:00	2	0	4	0	0	0	0	0	0	0	0	0	0	0	6	20-29	3
14:00	0	2	6	0	0	0	0	0	0	0	0	0	0	0	8	17-26	7
15:00	1	0	4	0	0	0	0	0	0	0	0	0	0	0	5	21-30	3
16:00	0	3	3	0	1	0	0	0	0	0	0	0	0	0	7	15-24	5
17:00	**3**	3	3	0	1	0	0	0	0	0	0	0	0	0	10	16-25	4
18:00	1	**6**	5	**2**	0	0	0	0	0	0	0	0	0	0	**14**	16-25	8
19:00	0	3	4	1	0	0	0	0	0	0	0	0	0	0	8	18-27	5
20:00	1	3	3	1	0	0	0	0	0	0	0	0	0	0	8	18-27	4
21:00	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2	19-28	1
22:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
23:00	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2	19-28	1
Total	33	49	54	9	3	0	0	0	0	0	0	0	0	0	148		
Percent	22.3%	33.1%	36.5%	6.1%	2.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	06:00	11:00	11:00	11:00											11:00		
Vol.	8	11	7	2											26		
PM Peak	17:00	18:00	12:00	18:00	12:00										18:00		
Vol.	3	6	6	2	1										14		

Sheridan St

(N of South Orchard)

Speed

Site Code: 00000001
Station ID:

Latitude: 0' 0.0000 South

Direction 1, Direction 2

Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace
11/25/13	0	1	0	0	**2**	0	0	0	0	0	0	0	0	0	3	26-35	2
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
04:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	14-23	1
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
06:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
07:00	4	2	4	0	0	0	0	0	0	0	0	0	0	0	10	4-13	5
08:00	**7**	**9**	**5**	0	0	0	0	0	0	0	0	0	0	0	**21**	11-20	11
09:00	2	6	0	0	0	0	0	0	0	0	0	0	0	0	8	10-19	6
10:00	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2	12-21	1
11:00	1	4	1	**1**	0	0	0	0	0	0	0	0	0	0	7	13-22	4
12 PM	3	3	1	1	0	0	0	0	0	0	0	0	0	0	8	9-18	4
13:00	**7**	10	4	2	0	0	0	0	0	0	0	0	0	0	23	11-20	12
14:00	0	2	4	1	0	0	0	0	0	0	0	0	0	0	7	15-24	5
15:00	2	8	8	**4**	2	0	0	0	0	0	0	0	0	0	24	17-26	12
16:00	4	**12**	**16**	0	**4**	0	0	0	0	0	0	0	0	0	**36**	16-25	20
17:00	5	5	9	2	0	**1**	0	0	0	0	0	0	0	0	22	17-26	10
18:00	5	3	3	2	3	1	0	0	0	0	0	0	0	**1**	18	8-17	6
19:00	3	10	8	3	0	0	0	0	0	0	0	0	0	0	24	15-24	13
20:00	0	3	2	0	0	0	0	0	0	0	0	0	0	0	5	13-22	4
21:00	0	2	2	0	0	0	0	0	0	0	0	0	0	0	4	12-21	3
22:00	0	0	2	1	0	0	0	0	0	0	0	0	0	0	3	19-28	3
23:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	8-17	1
Total	44	82	70	17	11	2	0	0	0	0	0	0	0	1	227		
Percent	19.4%	36.1%	30.8%	7.5%	4.8%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%			
AM Peak	08:00	08:00	08:00	11:00	00:00										08:00		
Vol.	7	9	5	1	2										21		
PM Peak	13:00	16:00	16:00	15:00	16:00	17:00								18:00	16:00		
Vol.	7	12	16	4	4	1								1	36		

Sheridan St

(N of South Orchard)

Speed

Site Code: 00000001
Station ID:

Latitude: 0' 0.0000 South

Direction 1, Direction 2

Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace
11/26/13	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2	19-28	1
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
02:00	1	0	1	0	**1**	**1**	0	0	0	0	0	0	0	**2**	6	34-43	1
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
06:00	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2	19-28	1
07:00	10	2	2	0	0	0	0	0	0	0	0	0	0	0	14	5-14	9
08:00	**11**	**10**	**10**	**4**	0	0	0	0	0	0	0	0	0	0	**35**	8-17	15
09:00	2	1	3	0	0	0	0	0	0	0	0	0	0	0	6	14-23	3
10:00	0	5	5	2	1	0	0	0	0	0	0	0	0	0	13	14-23	8
11:00	2	5	2	1	0	0	0	0	0	0	0	0	0	0	10	11-20	6
12 PM	2	12	**10**	3	0	0	0	0	0	0	0	0	0	0	27	16-25	16
13:00	5	**17**	4	3	**1**	0	0	0	0	0	0	0	0	0	**30**	12-21	18
14:00	5	6	1	1	0	0	0	0	0	0	0	0	0	0	13	11-20	7
15:00	**7**	3	6	2	0	0	0	0	0	0	0	0	0	0	18	6-15	8
16:00	2	3	4	2	0	0	0	0	0	0	0	0	0	0	11	18-27	5
17:00	4	6	7	**4**	0	0	0	0	0	0	0	0	0	0	21	15-24	10
18:00	3	16	6	2	0	0	0	0	0	0	0	0	0	0	27	13-22	17
19:00	0	3	2	0	0	0	0	0	0	0	0	0	0	0	5	13-22	4
20:00	3	1	2	2	0	0	0	0	0	0	0	0	0	0	8	8-17	3
21:00	0	2	3	1	0	0	0	0	0	0	0	0	0	0	6	17-26	4
22:00	3	1	2	2	0	0	0	0	0	0	0	0	0	0	8	8-17	3
23:00	4	2	2	0	0	0	0	0	0	0	0	0	0	0	8	8-17	4
Total	64	97	74	29	3	1	0	0	0	0	0	0	0	2	270		
Percent	23.7%	35.9%	27.4%	10.7%	1.1%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.7%			
AM Peak	08:00	08:00	08:00	08:00	02:00	02:00								02:00	08:00		
Vol.	11	10	10	4	1	1								2	35		
PM Peak	15:00	13:00	12:00	17:00	13:00										13:00		
Vol.	7	17	10	4	1										30		

Sheridan St

(N of South Orchard)

Speed

Site Code: 00000001
Station ID:

Latitude: 0' 0.0000 South

Direction 1, Direction 2

Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace
11/27/13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
02:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	14-23	1
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
04:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	8-17	1
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
06:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	8-17	1
07:00	**18**	2	**2**	0	0	0	0	0	0	0	0	0	0	0	22	4-13	16
08:00	5	4	0	0	0	0	0	0	0	0	0	0	0	0	9	10-19	5
09:00	1	5	2	**2**	0	0	0	0	0	0	0	0	0	0	10	11-20	6
10:00	0	4	0	1	0	0	0	0	0	0	0	0	0	0	5	10-19	4
11:00	15	**7**	2	0	0	0	0	0	0	0	0	0	0	0	**24**	5-14	15
12 PM	3	4	**6**	2	0	0	0	0	0	0	0	0	0	0	15	18-27	7
13:00	10	**8**	6	0	0	0	0	0	0	0	0	0	0	0	**24**	8-17	12
14:00	5	6	5	**3**	0	0	0	0	0	0	0	0	0	0	19	15-24	8
15:00	3	7	6	1	**1**	0	0	0	0	0	0	0	0	0	18	16-25	9
16:00	**11**	5	2	2	0	0	0	0	0	0	0	0	0	0	20	7-16	11
17:00	8	3	4	0	0	0	0	0	0	0	0	0	0	0	15	6-15	8
18:00	7	7	4	0	0	0	0	0	0	0	0	0	0	0	18	11-20	9
19:00	2	2	3	3	0	0	0	0	0	0	0	0	0	0	10	22-31	4
20:00	2	4	1	0	0	0	0	0	0	0	0	0	0	0	7	13-22	4
21:00	1	2	1	1	0	0	0	0	0	0	0	0	0	0	5	17-26	2
22:00	3	1	3	1	0	0	0	0	0	0	0	0	0	0	8	8-17	3
23:00	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	15-24	2
Total	94	73	50	16	1	0	0	0	0	0	0	0	0	0	234		
Percent	40.2%	31.2%	21.4%	6.8%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	07:00	11:00	07:00	09:00											11:00		
Vol.	18	7	2	2											24		
PM Peak	16:00	13:00	12:00	14:00	15:00										13:00		
Vol.	11	8	6	3	1										24		

Sheridan St

(N of South Orchard)

Speed

Site Code: 00000001
Station ID:

Latitude: 0' 0.0000 South

Direction 1, Direction 2

Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace
11/28/13	0	0	0	**1**	0	0	0	0	0	0	0	0	0	0	1	19-28	1
01:00	0	0	**1**	0	0	0	0	0	0	0	0	0	0	0	1	14-23	1
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
06:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	14-23	1
07:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
08:00	2	0	1	0	0	0	0	0	0	0	0	0	0	0	3	1-10	2
09:00	1	0	1	1	0	0	0	0	0	0	0	0	0	0	3	24-33	1
10:00	4	0	1	0	0	0	0	0	0	0	0	0	0	0	5	4-13	4
11:00	**8**	**3**	1	1	0	0	0	0	0	0	0	0	0	0	**13**	4-13	8
12 PM	3	2	3	0	0	0	0	0	0	0	0	0	0	0	8	5-14	4
13:00	1	3	3	1	0	0	0	0	0	0	0	0	0	0	8	18-27	4
14:00	2	1	**4**	0	0	0	0	0	0	0	0	0	0	0	7	16-25	4
15:00	1	3	2	0	0	0	0	0	0	0	0	0	0	0	6	12-21	4
16:00	1	2	2	1	0	0	0	0	0	0	0	0	0	0	6	10-19	3
17:00	3	1	0	**3**	**1**	0	0	0	0	0	0	0	0	0	8	8-17	3
18:00	**7**	5	3	0	0	0	0	0	0	0	0	0	0	0	**15**	7-16	8
19:00	0	**6**	3	0	0	0	0	0	0	0	0	0	0	0	9	12-21	7
20:00	0	0	3	1	0	0	0	0	0	0	0	0	0	0	4	19-28	4
21:00	4	0	1	1	0	0	0	0	0	0	0	0	0	0	6	2-11	4
22:00	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	15-24	2
23:00	1	3	0	0	0	0	0	0	0	0	0	0	0	0	4	9-18	3
Total	38	29	32	10	1	0	0	0	0	0	0	0	0	0	110		
Percent	34.5%	26.4%	29.1%	9.1%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	11:00	11:00	01:00	00:00											11:00		
Vol.	8	3	1	1											13		
PM Peak	18:00	19:00	14:00	17:00	17:00										18:00		
Vol.	7	6	4	3	1										15		

Sheridan St
(N of South Orchard)
Speed

Site Code: 00000001
Station ID:

Latitude: 0' 0.0000 South

Direction 1, Direction 2

Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace
11/29/13	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	10-19	2
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
06:00	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	15-24	2
07:00	3	2	0	0	**2**	0	**1**	0	0	0	0	0	0	**1**	9	5-14	4
08:00	2	**3**	0	0	0	0	0	0	0	0	0	0	0	0	5	11-20	3
09:00	0	1	**3**	0	0	0	0	0	0	0	0	0	0	0	4	19-28	3
10:00	**9**	0	1	0	1	0	0	0	0	0	0	0	0	0	**11**	3-12	8
11:00	4	3	3	0	0	0	0	0	0	0	0	0	0	0	10	4-13	5
12 PM	3	4	1	1	0	0	0	0	0	0	0	0	0	0	9	8-17	5
13:00	11	**6**	**6**	0	1	0	0	0	0	0	0	0	0	0	**24**	7-16	12
14:00	7	5	1	1	0	0	0	0	0	0	0	0	0	0	14	5-14	8
15:00	**12**	3	0	1	0	0	0	0	0	0	0	0	0	0	16	4-13	11
16:00	4	4	5	**2**	**2**	0	**1**	0	0	0	0	0	0	**1**	19	13-22	7
17:00	4	2	3	1	0	0	0	0	0	0	0	0	0	0	10	4-13	5
18:00	9	2	0	1	0	0	0	0	0	0	0	0	0	0	12	5-14	8
19:00	2	3	2	1	0	0	0	0	0	0	0	0	0	0	8	8-17	4
20:00	2	2	3	1	0	0	0	0	0	0	0	0	0	0	8	15-24	4
21:00	0	2	5	0	0	0	0	0	0	0	0	0	0	0	7	17-26	6
22:00	6	2	2	0	0	0	0	0	0	0	0	0	0	0	10	3-12	6
23:00	1	0	1	1	0	0	0	0	0	0	0	0	0	0	3	24-33	1
Total	79	46	38	10	6	0	2	0	0	0	0	0	0	2	183		
Percent	43.2%	25.1%	20.8%	5.5%	3.3%	0.0%	1.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.1%			
AM Peak	10:00	08:00	09:00		07:00		07:00							07:00	10:00		
Vol.	9	3	3		2		1							1	11		
PM Peak	15:00	13:00	13:00	16:00	16:00		16:00							16:00	13:00		
Vol.	12	6	6	2	2		1							1	24		

Sheridan St

(N of South Orchard)

Speed

Site Code: 00000001
Station ID:

Latitude: 0' 0.0000 South

Direction 1, Direction 2

Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace
11/30/13	0	2	0	**2**	0	0	0	0	0	0	0	0	0	0	4	13-22	2
01:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	14-23	1
02:00	0	**3**	0	0	0	0	0	0	0	0	0	0	0	0	3	11-20	3
03:00	0	0	1	0	**1**	0	0	0	0	0	0	0	0	0	2	27-36	1
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
05:00	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2	19-28	1
06:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
07:00	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2	12-21	1
08:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	8-17	1
09:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	19-28	1
10:00	**3**	1	1	0	0	0	0	0	0	0	0	0	0	0	**5**	2-11	3
11:00	0	3	**2**	0	0	0	0	0	0	0	0	0	0	0	5	13-22	4
12 PM	7	4	**5**	0	0	0	0	0	0	0	0	0	0	0	16	4-13	8
13:00	0	0	4	0	0	0	0	0	0	0	0	0	0	0	4	16-25	4
14:00	4	1	4	**2**	0	0	0	0	0	0	0	0	0	0	11	4-13	5
15:00	3	**9**	5	2	0	0	0	0	0	0	0	0	0	0	19	12-21	11
16:00	0	4	5	1	0	0	0	0	0	0	0	0	0	0	10	14-23	7
17:00	**10**	8	3	2	1	0	0	0	0	0	0	0	0	0	**24**	8-17	12
18:00	5	3	1	0	1	0	0	**1**	0	0	0	0	0	**1**	12	5-14	6
19:00	4	4	2	1	**2**	0	0	1	**1**	0	0	0	0	1	16	6-15	6
20:00	0	1	1	1	0	0	0	0	0	0	0	0	0	0	3	14-23	2
21:00	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2	19-28	1
22:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
23:00	3	0	2	0	0	0	0	0	0	0	0	0	0	0	5	1-10	3
Total	40	47	39	12	5	0	0	2	1	0	0	0	0	2	148		
Percent	27.0%	31.8%	26.4%	8.1%	3.4%	0.0%	0.0%	1.4%	0.7%	0.0%	0.0%	0.0%	0.0%	1.4%			
AM Peak	10:00	02:00	11:00	00:00	03:00										10:00		
Vol.	3	3	2	2	1										5		
PM Peak	17:00	15:00	12:00	14:00	19:00			18:00	19:00					18:00	17:00		
Vol.	10	9	5	2	2			1	1					1	24		

Sheridan St
(N of South Orchard)
Speed

Site Code: 00000001
Station ID:

Latitude: 0' 0.0000 South

Direction 1, Direction 2

Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	Pace Speed	Number in Pace
12/01/13	0	0	**2**	0	0	0	0	0	0	0	0	0	0	0	2	15-24	2
01:00	0	0	2	**1**	0	0	0	0	0	0	0	0	0	0	3	19-28	3
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
04:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	14-23	1
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
06:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	*	1
07:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
08:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
09:00	**5**	0	2	0	0	0	0	0	0	0	0	0	0	0	**7**	3-12	5
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	6	0	7	1	0	0	0	0	0	0	0	0	0	0	14		
Percent	42.9%	0.0%	50.0%	7.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	09:00		00:00	01:00											09:00		
Vol.	5		2	1											7		
PM Peak																	
Vol.																	
Total	804	878	1005	358	113	14	4	3	2	0	0	0	1	25	3207		
Percent	25.1%	27.4%	31.3%	11.2%	3.5%	0.4%	0.1%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.8%			

15th Percentile :	7 MPH
50th Percentile :	16 MPH
85th Percentile :	24 MPH
95th Percentile :	29 MPH

Stats

10 MPH Pace Speed :	15-24 MPH
Number in Pace :	1360
Percent in Pace :	42.7%
Number of Vehicles > 25 MPH :	520
Percent of Vehicles > 25 MPH :	16.3%
Mean Speed(Average) :	17 MPH