



Multi-Way Stop for the Intersection of
Lake Ave and 10th St (East)
City Engineering Department
August 2017

Criteria for Multi-Way Stop Installation
Based on MUTCD 2009 Edition Standards

Criterion 1: Crash Experience

This criterion is **not satisfied** because there was only 1 accident at this intersection in the past 12 months that could have been prevented by a Multi-Way Stop.

Criterion 2: 8-hour Vehicular Volume

This criterion is **not satisfied** because the vehicles per hour entering the intersection of Lake Ave and 10th St coming from Lake Ave is 393, which does exceed the required minimum 300 vehicles per hour for any 8 hours of an average day. The vehicle per hour entering the intersection from 10th St is 173, which does not exceed the required minimum 200 vehicles per hour for the same 8 hours.

Criterion 3: Major Road Approach Speed

This criterion is **not satisfied** because the 85th-percentile approach speed of traffic on Lake Ave is 29 mph, which does not exceed the required minimum of 40 mph. However, it should be noted that 50.5% of the traffic on Lake Ave was over the posted limit, with a mean speed of 25 mph both directions, 24 mph southbound, and 26 mph northbound.

Additional Notes:

Based on MUTCD 2009 standards none of the criteria's are satisfied for Multi-way stop Installation.

Prepared By: Abhishek Deora Date: 08/28/17
Abhishek Deora, Engineering Aide

Reviewed By: James Hodge Date: 9-6-17
Encl:



10th Street
Btw Cass St and Lake St
Speed

Site Code: 00000001
Station ID:

Latitude: 0' 0.0000 South

A= Westbound

Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Number in Pace
	15	20	25	30	35	40	45	50	55	60	65	70	75	999			
06/08/17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
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	4	25	19	3	1	0	0	0	0	0	0	0	0	0	52	16-25	44
16:00	9	21	16	4	1	0	0	0	0	0	0	0	0	0	51	16-25	37
17:00	10	30	23	5	1	0	0	0	0	0	0	0	0	0	69	16-25	53
18:00	9	13	14	3	0	0	0	0	0	0	0	0	0	0	39	16-25	27
19:00	13	13	13	5	0	0	0	0	0	0	0	0	0	0	44	16-25	26
20:00	10	9	10	0	0	0	0	0	0	0	0	0	0	0	29	16-25	19
21:00	1	6	2	1	0	0	0	0	0	0	0	0	0	0	10	16-25	8
22:00	0	0	2	1	0	0	0	0	0	0	0	0	0	0	3	19-28	3
23:00	2	0	0	1	0	0	0	0	0	0	0	0	0	0	3	8-17	1
Total	58	117	99	23	3	0	0	0	0	0	0	0	0	0	300		
Percent	19.3%	39.0%	33.0%	7.7%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak Vol.																	
PM Peak Vol.	19:00	17:00	17:00	17:00	15:00										17:00		
	13	30	23	5	1										69		

10th Street
Btw Cass St and Lake St
Speed

Site Code: 00000001
Station ID:

Latitude: 0' 0.0000 South

A= Westbound

Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Number in Pace
	15	20	25	30	35	40	45	50	55	60	65	70	75	999			
06/09/17	1	0	0	1	0	0	0	0	0	0	0	0	0	0	2	*	1
01:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	9-18	1
02:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	9-18	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	1	0	0	1	0	0	0	0	0	0	0	0	0	0	2	*	1
06:00	3	7	9	1	0	0	0	0	0	0	0	0	0	0	20	16-25	16
07:00	21	42	8	0	0	0	0	0	0	0	0	0	0	0	71	14-23	50
08:00	46	32	10	0	0	0	0	0	0	0	0	0	0	0	88	11-20	47
09:00	23	27	23	1	0	0	0	0	0	0	0	0	0	0	74	16-25	50
10:00	9	18	17	7	0	0	0	0	0	0	0	0	0	0	51	16-25	35
11:00	21	28	21	5	0	0	0	0	0	0	0	0	0	0	75	16-25	49
12 PM	18	24	22	7	0	0	0	0	0	0	0	0	0	0	71	16-25	46
13:00	25	23	19	2	0	0	0	0	0	0	0	0	0	0	69	16-25	42
14:00	14	33	14	9	1	0	0	0	0	0	0	0	0	0	71	16-25	47
15:00	9	12	7	2	0	0	0	0	0	0	0	0	0	0	30	16-25	19
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	191	248	150	36	1	0	0	0	0	0	0	0	0	0	626		
Percent	30.5%	39.6%	24.0%	5.8%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	08:00	07:00	09:00	10:00											08:00		
Vol.	46	42	23	7											88		
PM Peak	13:00	14:00	12:00	14:00	14:00										12:00		
Vol.	25	33	22	9	1										71		
Total	249	365	249	59	4	0	0	0	0	0	0	0	0	0	926		
Percent	26.9%	39.4%	26.9%	6.4%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			

15th Percentile : 8 MPH
50th Percentile : 17 MPH
85th Percentile : 23 MPH
95th Percentile : 26 MPH

Stats
10 MPH Pace Speed : 16-25 MPH
Number in Pace : 614
Percent in Pace : 66.3%
Number of Vehicles > 25 MPH : 63
Percent of Vehicles > 25 MPH : 6.8%
Mean Speed(Average) : 17 MPH

10th Street
Btw Cass St and Lake St
Speed

Site Code: 00000001
Station ID:

Latitude: 0' 0.0000 South

B= Eastbound

Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Number in Pace
	15	20	25	30	35	40	45	50	55	60	65	70	75	999			
06/08/17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
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	6	17	31	8	1	0	0	0	0	0	0	0	0	0	63	16-25	48
16:00	6	12	25	11	3	0	0	0	0	0	0	0	0	0	57	16-25	37
17:00	11	16	27	14	1	0	0	0	0	0	0	0	0	0	69	16-25	43
18:00	13	14	8	4	2	0	0	0	0	0	0	0	0	0	41	16-25	22
19:00	8	20	13	7	0	1	0	0	0	0	0	0	0	0	49	16-25	33
20:00	3	11	17	10	0	0	0	0	0	0	0	0	0	0	41	16-25	28
21:00	1	5	10	1	2	0	0	0	0	0	0	0	0	0	19	16-25	15
22:00	0	2	3	1	1	0	0	0	0	0	0	0	0	0	7	16-25	5
23:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	14-23	1
Total	48	97	135	56	10	1	0	0	0	0	0	0	0	0	347		
Percent	13.8%	28.0%	38.9%	16.1%	2.9%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak Vol.																	
PM Peak Vol.	18:00	19:00	15:00	17:00	16:00	19:00									17:00		
	13	20	31	14	3	1									69		

10th Street
Btw Cass St and Lake St
Speed

Site Code: 00000001
Station ID:

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B= Eastbound

Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Number in Pace
	15	20	25	30	35	40	45	50	55	60	65	70	75	999			
06/09/17	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	1	1	0	0	0	0	0	0	0	0	0	0	2	19-28	2
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	1	1	2	0	0	0	0	0	0	0	0	0	0	0	4	15-24	3
06:00	2	5	2	1	0	0	0	0	0	0	0	0	0	0	10	16-25	7
07:00	21	14	10	5	0	0	0	0	0	0	0	0	0	0	50	16-25	24
08:00	18	20	11	1	1	0	0	0	0	0	0	0	0	0	51	16-25	31
09:00	17	17	18	4	0	0	0	0	0	0	0	0	0	0	56	16-25	35
10:00	16	13	20	10	0	0	0	0	0	0	0	0	0	0	59	16-25	33
11:00	21	14	13	6	2	0	0	0	0	0	0	0	0	0	56	16-25	27
12 PM	18	33	32	19	0	0	0	0	0	0	0	0	0	0	102	16-25	65
13:00	12	18	30	12	3	0	0	0	0	0	0	0	0	0	75	16-25	48
14:00	16	19	27	12	1	0	0	0	0	0	0	0	0	0	75	16-25	46
15:00	6	7	19	4	0	0	0	0	0	0	0	0	0	0	36	16-25	26
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	148	161	186	76	7	0	0	0	0	0	0	0	0	0	578		
Percent	25.6%	27.9%	32.2%	13.1%	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	07:00	08:00	10:00	10:00	11:00										10:00		
Vol.	21	20	20	10	2										59		
PM Peak	12:00	12:00	12:00	12:00	13:00										12:00		
Vol.	18	33	32	19	3										102		
Total	196	258	321	132	17	1	0	0	0	0	0	0	0	0	925		
Percent	21.2%	27.9%	34.7%	14.3%	1.8%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			

15th Percentile : 10 MPH
50th Percentile : 20 MPH
85th Percentile : 25 MPH
95th Percentile : 28 MPH

Stats
10 MPH Pace Speed : 16-25 MPH
Number in Pace : 579
Percent in Pace : 62.6%
Number of Vehicles > 25 MPH : 150
Percent of Vehicles > 25 MPH : 16.2%
Mean Speed(Average) : 19 MPH

10th Street
Btw Cass St and Lake St
Speed

Site Code: 00000001
Station ID:

Latitude: 0' 0.0000 South

A= Westbound, B= Eastbound

Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Number in Pace
Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999			
06/08/17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
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	10	42	50	11	2	0	0	0	0	0	0	0	0	0	115	16-25	92
16:00	15	33	41	15	4	0	0	0	0	0	0	0	0	0	108	16-25	74
17:00	21	46	50	19	2	0	0	0	0	0	0	0	0	0	138	16-25	96
18:00	22	27	22	7	2	0	0	0	0	0	0	0	0	0	80	16-25	49
19:00	21	33	26	12	0	1	0	0	0	0	0	0	0	0	93	16-25	59
20:00	13	20	27	10	0	0	0	0	0	0	0	0	0	0	70	16-25	47
21:00	2	11	12	2	2	0	0	0	0	0	0	0	0	0	29	16-25	23
22:00	0	2	5	2	1	0	0	0	0	0	0	0	0	0	10	21-30	7
23:00	2	0	1	1	0	0	0	0	0	0	0	0	0	0	4	19-28	2
Total	106	214	234	79	13	1	0	0	0	0	0	0	0	0	647		
Percent	16.4%	33.1%	36.2%	12.2%	2.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak Vol.																	
PM Peak Vol.	18:00	17:00	15:00	17:00	16:00	19:00									17:00		
	22	46	50	19	4	1									138		

10th Street
Btw Cass St and Lake St
Speed

Site Code: 00000001
Station ID:

Latitude: 0' 0.0000 South

A= Westbound, B= Eastbound

Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Number in Pace
06/09/17	1	0	0	2	0	0	0	0	0	0	0	0	0	0	3	20-29	2
01:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	9-18	1
02:00	0	1	1	1	0	0	0	0	0	0	0	0	0	0	3	14-23	2
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	2	1	2	1	0	0	0	0	0	0	0	0	0	0	6	21-30	3
06:00	5	12	11	2	0	0	0	0	0	0	0	0	0	0	30	16-25	23
07:00	42	56	18	5	0	0	0	0	0	0	0	0	0	0	121	16-25	74
08:00	64	52	21	1	1	0	0	0	0	0	0	0	0	0	139	16-25	73
09:00	40	44	41	5	0	0	0	0	0	0	0	0	0	0	130	16-25	85
10:00	25	31	37	17	0	0	0	0	0	0	0	0	0	0	110	16-25	68
11:00	42	42	34	11	2	0	0	0	0	0	0	0	0	0	131	16-25	76
12 PM	36	57	54	26	0	0	0	0	0	0	0	0	0	0	173	16-25	111
13:00	37	41	49	14	3	0	0	0	0	0	0	0	0	0	144	16-25	90
14:00	30	52	41	21	2	0	0	0	0	0	0	0	0	0	146	16-25	93
15:00	15	19	26	6	0	0	0	0	0	0	0	0	0	0	66	16-25	45
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	339	409	336	112	8	0	0	0	0	0	0	0	0	0	1204		
Percent	28.2%	34.0%	27.9%	9.3%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	08:00	07:00	09:00	10:00	11:00										08:00		
Vol.	64	56	41	17	2										139		
PM Peak	13:00	12:00	12:00	12:00	13:00										12:00		
Vol.	37	57	54	26	3										173		
Total	445	623	570	191	21	1	0	0	0	0	0	0	0	0	1851		
Percent	24.0%	33.7%	30.8%	10.3%	1.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			

15th Percentile : 9 MPH
50th Percentile : 18 MPH
85th Percentile : 24 MPH
95th Percentile : 28 MPH

Stats
10 MPH Pace Speed : 16-25 MPH
Number in Pace : 1193
Percent in Pace : 64.5%
Number of Vehicles > 25 MPH : 213
Percent of Vehicles > 25 MPH : 11.5%
Mean Speed(Average) : 18 MPH

10th Street
Btw Cass St and Lake St
Speed

Site Code: 00000001
Station ID:

Latitude: 0' 0.0000 South

Start Time	05-Jun-17 Mon	06-Jun-17 Tue	07-Jun-17 Wed	08-Jun-17 Thu	09-Jun-17 Fri	Weekday Average	10-Jun-17 Sat	11-Jun-17 Sun
12:00 AM	*	*	*	*	3	3	*	*
01:00	*	*	*	*	1	1	*	*
02:00	*	*	*	*	3	3	*	*
03:00	*	*	*	*	0	0	*	*
04:00	*	*	*	*	1	1	*	*
05:00	*	*	*	*	6	6	*	*
06:00	*	*	*	*	30	30	*	*
07:00	*	*	*	*	121	121	*	*
08:00	*	*	*	*	139	139	*	*
09:00	*	*	*	*	130	130	*	*
10:00	*	*	*	*	110	110	*	*
11:00	*	*	*	*	131	131	*	*
12:00 PM	*	*	*	*	173	173	*	*
01:00	*	*	*	*	144	144	*	*
02:00	*	*	*	*	146	146	*	*
03:00	*	*	*	115	66	90	*	*
04:00	*	*	*	108	*	108	*	*
05:00	*	*	*	138	*	138	*	*
06:00	*	*	*	80	*	80	*	*
07:00	*	*	*	93	*	93	*	*
08:00	*	*	*	70	*	70	*	*
09:00	*	*	*	29	*	29	*	*
10:00	*	*	*	10	*	10	*	*
11:00	*	*	*	4	*	4	*	*
Total	0	0	0	647	1204		0	0
Percentage	0.0%	0.0%	0.0%	36.8%	68.4%		0.0%	0.0%
AM Peak	-	-	-	-	08:00	-	-	-
Vol.	-	-	-	-	139	-	-	-
PM Peak	-	-	-	17:00	12:00	-	-	-
Vol.	-	-	-	138	173	-	-	-
Total		0	0					

Lake Street
Btw 9th St and 10th St
Speed

Site Code: 00000001
Station ID:

Latitude: 0' 0.0000 South

A= Southbound

Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Number in Pace
	15	20	25	30	35	40	45	50	55	60	65	70	75	999			
06/08/17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
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	10	21	46	50	15	2	0	0	0	0	0	0	0	0	144	21-30	96
16:00	7	16	69	69	6	0	0	0	0	0	0	0	0	0	167	21-30	138
17:00	10	14	59	79	25	0	0	0	0	0	0	0	0	0	187	21-30	138
18:00	6	7	33	32	11	2	1	0	0	0	0	0	0	0	92	21-30	65
19:00	11	12	44	44	14	2	0	0	0	0	0	0	0	0	127	21-30	88
20:00	8	5	24	28	11	0	0	0	0	0	0	0	0	0	76	21-30	52
21:00	2	4	7	12	4	0	0	0	0	0	0	0	0	0	29	21-30	19
22:00	1	2	6	5	3	0	0	0	0	0	0	0	0	0	17	21-30	11
23:00	2	1	5	2	2	0	0	0	0	0	0	0	0	0	12	21-30	7
Total	57	82	293	321	91	6	1	0	0	0	0	0	0	0	851		
Percent	6.7%	9.6%	34.4%	37.7%	10.7%	0.7%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak Vol.																	
PM Peak Vol.	19:00	15:00	16:00	17:00	17:00	15:00	18:00								17:00		
	11	21	69	79	25	2	1								187		

Lake Street
Btw 9th St and 10th St
Speed

Site Code: 00000001
Station ID:

Latitude: 0' 0.0000 South

A= Southbound

Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Number in Pace
	15	20	25	30	35	40	45	50	55	60	65	70	75	999			
06/09/17	0	1	1	1	1	0	0	0	0	0	0	0	0	0	4	14-23	2
01:00	1	2	1	0	0	0	0	0	0	0	0	0	0	0	4	13-22	3
02:00	0	0	1	2	0	0	0	0	0	0	0	0	0	0	3	20-29	3
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
04:00	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	29-38	1
05:00	1	3	1	3	0	0	0	0	0	0	0	0	0	0	8	21-30	4
06:00	3	3	6	16	8	0	0	0	0	0	0	0	0	0	36	26-35	24
07:00	25	9	26	42	5	2	0	0	0	0	0	0	0	0	109	21-30	68
08:00	20	10	29	23	9	0	0	0	0	0	0	0	0	0	91	21-30	52
09:00	9	10	40	46	2	1	0	0	0	0	0	0	0	0	108	21-30	86
10:00	7	13	37	38	14	0	0	0	0	0	0	0	0	0	109	21-30	75
11:00	3	25	67	55	16	3	0	0	0	0	0	0	0	0	169	21-30	122
12 PM	8	25	72	54	6	0	0	0	0	0	0	0	0	0	165	21-30	126
13:00	4	17	68	54	9	1	0	0	0	0	0	0	0	0	153	21-30	122
14:00	13	19	55	53	9	0	0	0	0	0	0	0	0	0	149	21-30	108
15:00	21	28	55	40	8	0	0	0	0	0	0	0	0	0	152	21-30	95
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	115	165	459	427	87	8	0	0	0	0	0	0	0	0	1261		
Percent	9.1%	13.1%	36.4%	33.9%	6.9%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	07:00	11:00	11:00	11:00	11:00	11:00										11:00	
Vol.	25	25	67	55	16	3										169	
PM Peak	15:00	15:00	12:00	12:00	13:00	13:00										12:00	
Vol.	21	28	72	54	9	1										165	
Total	172	247	752	748	178	14	1	0	0	0	0	0	0	0	2112		
Percent	8.1%	11.7%	35.6%	35.4%	8.4%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			

15th Percentile : 17 MPH
 50th Percentile : 24 MPH
 85th Percentile : 29 MPH
 95th Percentile : 32 MPH

Stats
 10 MPH Pace Speed : 21-30 MPH
 Number in Pace : 1500
 Percent in Pace : 71.0%
 Number of Vehicles > 25 MPH : 941
 Percent of Vehicles > 25 MPH : 44.6%
 Mean Speed(Average) : 24 MPH

Lake Street
Btw 9th St and 10th St
Speed

Site Code: 00000001
Station ID:

Latitude: 0' 0.0000 South

B= Northbound

Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Number in Pace
	15	20	25	30	35	40	45	50	55	60	65	70	75	999			
06/08/17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
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	6	11	39	57	28	4	0	0	0	0	0	0	0	0	145	21-30	96
16:00	7	18	53	88	20	1	0	0	0	0	0	0	0	0	187	21-30	141
17:00	3	7	40	68	31	4	0	0	0	0	0	0	0	0	153	21-30	108
18:00	4	4	18	47	40	6	2	0	0	0	0	0	0	0	121	26-35	87
19:00	5	7	17	53	30	5	0	0	0	0	0	0	0	0	117	26-35	83
20:00	5	8	17	30	29	1	1	0	0	0	0	0	0	0	91	26-35	59
21:00	1	3	17	17	10	1	0	1	0	0	0	0	0	0	50	21-30	34
22:00	0	0	6	8	3	2	0	0	0	0	0	0	0	0	19	21-30	14
23:00	2	0	1	3	1	1	0	0	0	0	0	0	0	0	8	26-35	4
Total	33	58	208	371	192	25	3	1	0	0	0	0	0	0	891		
Percent	3.7%	6.5%	23.3%	41.6%	21.5%	2.8%	0.3%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak Vol.																	
PM Peak Vol.	16:00	16:00	16:00	16:00	18:00	18:00	18:00	21:00							16:00		
	7	18	53	88	40	6	2	1						187			

Lake Street
Btw 9th St and 10th St
Speed

Site Code: 00000001
Station ID:

Latitude: 0' 0.0000 South

B= Northbound

Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Number in Pace
	15	20	25	30	35	40	45	50	55	60	65	70	75	999			
06/09/17	0	0	0	5	0	0	0	0	0	0	0	0	0	0	5	21-30	5
01:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	19-28	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	1	3	0	0	0	0	0	0	0	0	0	0	4	21-30	4
05:00	0	1	0	1	3	0	0	0	0	0	0	0	0	0	5	26-35	4
06:00	1	2	2	3	4	0	0	0	0	0	0	0	0	0	12	25-34	7
07:00	3	3	10	15	10	0	0	0	0	0	0	0	0	0	41	21-30	25
08:00	10	5	21	21	10	3	0	0	0	0	0	0	0	0	70	21-30	42
09:00	7	20	35	23	9	1	0	0	0	0	0	0	0	0	95	21-30	58
10:00	2	9	39	52	18	1	1	0	0	0	0	0	0	0	122	21-30	91
11:00	3	21	66	55	14	4	0	0	0	0	0	0	0	0	163	21-30	121
12 PM	5	41	80	74	24	4	0	0	0	0	0	0	0	0	228	21-30	154
13:00	6	21	80	85	18	1	1	0	0	0	0	0	0	0	212	21-30	165
14:00	6	16	52	75	18	2	1	0	0	0	0	0	0	0	170	21-30	127
15:00	12	16	54	56	16	1	1	0	0	0	0	0	0	0	156	21-30	110
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	55	155	440	469	144	17	4	0	0	0	0	0	0	0	1284		
Percent	4.3%	12.1%	34.3%	36.5%	11.2%	1.3%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	08:00	11:00	11:00	11:00	10:00	11:00	10:00									11:00	
Vol.	10	21	66	55	18	4	1									163	
PM Peak	15:00	12:00	12:00	13:00	12:00	12:00	13:00									12:00	
Vol.	12	41	80	85	24	4	1									228	
Total	88	213	648	840	336	42	7	1	0	0	0	0	0	0	2175		
Percent	4.0%	9.8%	29.8%	38.6%	15.4%	1.9%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			

15th Percentile : 20 MPH
50th Percentile : 25 MPH
85th Percentile : 30 MPH
95th Percentile : 34 MPH

Stats
10 MPH Pace Speed : 21-30 MPH
Number in Pace : 1488
Percent in Pace : 68.4%
Number of Vehicles > 25 MPH : 1226
Percent of Vehicles > 25 MPH : 56.4%
Mean Speed(Average) : 26 MPH

Lake Street
Btw 9th St and 10th St
Speed

Site Code: 00000001
Station ID:

Latitude: 0' 0.0000 South

A= Southbound, B= Northbound

Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Number in Pace
Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999			
06/08/17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
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	16	32	85	107	43	6	0	0	0	0	0	0	0	0	289	21-30	192
16:00	14	34	122	157	26	1	0	0	0	0	0	0	0	0	354	21-30	279
17:00	13	21	99	147	56	4	0	0	0	0	0	0	0	0	340	21-30	246
18:00	10	11	51	79	51	8	3	0	0	0	0	0	0	0	213	21-30	130
19:00	16	19	61	97	44	7	0	0	0	0	0	0	0	0	244	21-30	158
20:00	13	13	41	58	40	1	1	0	0	0	0	0	0	0	167	21-30	99
21:00	3	7	24	29	14	1	0	1	0	0	0	0	0	0	79	21-30	53
22:00	1	2	12	13	6	2	0	0	0	0	0	0	0	0	36	21-30	25
23:00	4	1	6	5	3	1	0	0	0	0	0	0	0	0	20	21-30	11
Total	90	140	501	692	283	31	4	1	0	0	0	0	0	0	1742		
Percent	5.2%	8.0%	28.8%	39.7%	16.2%	1.8%	0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak Vol.																	
PM Peak Vol.	15:00	16:00	16:00	16:00	17:00	18:00	18:00	21:00							16:00		
	16	34	122	157	56	8	3	1						354			

Lake Street
Btw 9th St and 10th St
Speed

Site Code: 00000001
Station ID:

Latitude: 0' 0.0000 South

A= Southbound, B= Northbound

Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Number in Pace
06/09/17	0	1	1	6	1	0	0	0	0	0	0	0	0	0	9	25-34	7
01:00	1	2	1	1	0	0	0	0	0	0	0	0	0	0	5	16-25	3
02:00	0	0	1	2	0	0	0	0	0	0	0	0	0	0	3	20-29	3
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
04:00	0	0	1	3	0	1	0	0	0	0	0	0	0	0	5	21-30	4
05:00	1	4	1	4	3	0	0	0	0	0	0	0	0	0	13	25-34	7
06:00	4	5	8	19	12	0	0	0	0	0	0	0	0	0	48	26-35	31
07:00	28	12	36	57	15	2	0	0	0	0	0	0	0	0	150	21-30	93
08:00	30	15	50	44	19	3	0	0	0	0	0	0	0	0	161	21-30	94
09:00	16	30	75	69	11	2	0	0	0	0	0	0	0	0	203	21-30	144
10:00	9	22	76	90	32	1	1	0	0	0	0	0	0	0	231	21-30	166
11:00	6	46	133	110	30	7	0	0	0	0	0	0	0	0	332	21-30	243
12 PM	13	66	152	128	30	4	0	0	0	0	0	0	0	0	393	21-30	280
13:00	10	38	148	139	27	2	1	0	0	0	0	0	0	0	365	21-30	287
14:00	19	35	107	128	27	2	1	0	0	0	0	0	0	0	319	21-30	235
15:00	33	44	109	96	24	1	1	0	0	0	0	0	0	0	308	21-30	205
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	170	320	899	896	231	25	4	0	0	0	0	0	0	0	2545		
Percent	6.7%	12.6%	35.3%	35.2%	9.1%	1.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	08:00	11:00	11:00	11:00	10:00	11:00	10:00								11:00		
Vol.	30	46	133	110	32	7	1								332		
PM Peak	15:00	12:00	12:00	13:00	12:00	12:00	13:00								12:00		
Vol.	33	66	152	139	30	4	1								393		
Total	260	460	1400	1588	514	56	8	1	0	0	0	0	0	0	4287		
Percent	6.1%	10.7%	32.7%	37.0%	12.0%	1.3%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			

15th Percentile : 19 MPH
50th Percentile : 25 MPH
85th Percentile : 29 MPH
95th Percentile : 33 MPH

Stats
10 MPH Pace Speed : 21-30 MPH
Number in Pace : 2988
Percent in Pace : 69.7%
Number of Vehicles > 25 MPH : 2167
Percent of Vehicles > 25 MPH : 50.5%
Mean Speed(Average) : 25 MPH

Lake Street
Btw 9th St and 10th St
Speed

Site Code: 0000001
Station ID:

Latitude: 0' 0.0000 South

Start Time	05-Jun-17 Mon	06-Jun-17 Tue	07-Jun-17 Wed	08-Jun-17 Thu	09-Jun-17 Fri	Weekday Average	10-Jun-17 Sat	11-Jun-17 Sun
12:00 AM	*	*	*	*	9	9	*	*
01:00	*	*	*	*	5	5	*	*
02:00	*	*	*	*	3	3	*	*
03:00	*	*	*	*	0	0	*	*
04:00	*	*	*	*	5	5	*	*
05:00	*	*	*	*	13	13	*	*
06:00	*	*	*	*	48	48	*	*
07:00	*	*	*	*	150	150	*	*
08:00	*	*	*	*	161	161	*	*
09:00	*	*	*	*	203	203	*	*
10:00	*	*	*	*	231	231	*	*
11:00	*	*	*	*	332	332	*	*
12:00 PM	*	*	*	*	393	393	*	*
01:00	*	*	*	*	365	365	*	*
02:00	*	*	*	*	319	319	*	*
03:00	*	*	*	289	308	298	*	*
04:00	*	*	*	354	*	354	*	*
05:00	*	*	*	340	*	340	*	*
06:00	*	*	*	213	*	213	*	*
07:00	*	*	*	244	*	244	*	*
08:00	*	*	*	167	*	167	*	*
09:00	*	*	*	79	*	79	*	*
10:00	*	*	*	36	*	36	*	*
11:00	*	*	*	20	*	20	*	*
Total	0	0	0	1742	2545		0	0
Percentage	0.0%	0.0%	0.0%	43.7%	63.8%		0.0%	0.0%
AM Peak	-	-	-	-	11:00	-	-	-
Vol.	-	-	-	-	332	-	-	-
PM Peak	-	-	-	16:00	12:00	-	-	-
Vol.	-	-	-	354	393	-	-	-
Total		0	0					

Speed Enforcement Evaluator

Location:
Lake St

**Total Percentage of
Enforceable Violations**

GPS:

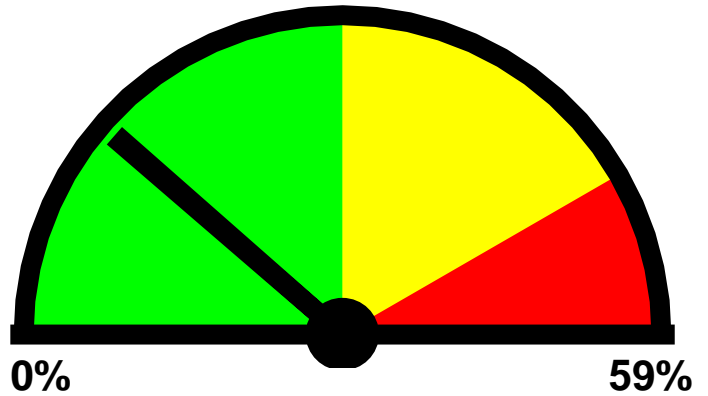
0' 0.0000 South
0' 0.0000 East

Closest Cross Street:

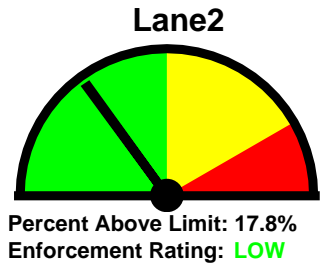
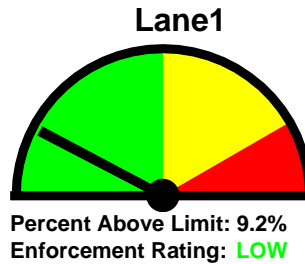
Btw 9th St and 10th St

Analysis Dates:

Thursday, June 08, 2017
Friday, June 09, 2017



Posted Speed Limit: 25 MPH
Enforcement Tolerance: 5 MPH
Enforcement Limit: 31 MPH & Up
Percentage Above Limit: 13.5%
Enforcement Rating: **LOW**



Combined

1-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-65	>65
0	41	213	460	1400	1588	514	56	8	1	0	0	0	0

85 percentile = 29

Lane1

1-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-65	>65
0	37	131	247	752	748	178	14	1	0	0	0	0	0

85 percentile = 28

Lane2

1-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-65	>65
0	4	82	213	648	840	336	42	7	1	0	0	0	0

85 percentile = 30