ORDINANCE NUMBER 2015-2

ROAD SPEED LIMITS

AN ORDINANCE TO ESTABLISH A SPEED LIMIT ON A SECTION OF NORTH MONTANA AVENUE, NORTH OF LINCOLN ROAD, LEWIS AND CLARK COUNTY, MONTANA, AND TO PROVIDE PENALTIES FOR A VIOLATION THEREOF.

WHEREAS, the Lewis and Clark County Board of County Commissioners(County Commission) requested a review of the speed limit on North Montana Avenue, Lewis and Clark County; and

WHEREAS, the Lewis and Clark County Public Works Department requested that Abelin Traffic Services of Helena, Montana, perform a speed study on this road and determine if the posted speed limit is appropriate for the existing road conditions and travel patterns; and

WHEREAS, Section 61-8-310, MCA allows the Lewis and Clark County Commission to establish speed limits on any public highway as defined in 60-1-103, MCA; and

WHEREAS, North Montana Avenue, north of Lincoln Road, in Lewis and Clark County, Montana is a public road as defined in Section 60-1-103 MCA; and

NOW THEREFORE, BE IT ORDAINED BY THE COUNTY COMMISSION OF LEWIS AND CLARK COUNTY, STATE OF MONTANA:

SECTION 1. SPEED LIMIT ESTABLISHED.
The speed limit shall be reduced from 55 miles per hour to 45 miles per hour pursuant to attached "Exhibit A – Abelin Speed Study."

SECTION 2. SPEED LIMIT SIGNS.
Upon receiving notice of the regulatory speed limit established by this Ordinance, and after the passage of at least 30 days from the date this Ordinance is adopted, the Public Works Department shall erect the appropriate signs giving drivers notice of the regulatory speed limit established by this Ordinance.

SECTION 3. SEVERABILITY.
Should any court declare any part of this Ordinance unconstitutional or invalid, the Ordinance as a whole or any part thereof, other that the part so declared to be unconstitutional or invalid, shall remain in effect.

SECTION 5. EFFECTIVE DATE.
This Ordinance shall take effect thirty days after the date of the Second Reading and approval of this Ordinance by the County Commission.

3281440 B: M50 P: 6319 COUNTY
10/29/2015 11:54 AM Pages: 1 of 17 Fees: 0.00
Paulette DeHart Clerk & Recorder, Lewis & Clark MT

SECTION 6. MODIFICATION.
This Ordinance may be modified by formal action by the County Commission in the same manner as required in the adoption of the Ordinance.

SECTION 7. DURATION.
This Ordinance shall remain in effect until repealed or suspended by other legislative or judicial action.

READ and adopted at first reading this 22nd day of October, 2015 by the Lewis and Clark County Board of County Commissioners, State of Montana.

FOR LEWIS AND CLARK COUNTY
BOARD OF COUNTY COMMISSIONERS

BY _____
Andy Hunthausen, Chairman

(Seal)
Attest: Paulette DeHart
Paulette DeHart, Clerk of the Board

READ and adopted at the second and final reading this 29th day of October, 2015, by the Lewis and Clark County of Board of County Commissioners, State of Montana.

FOR LEWIS AND CLARK COUNTY
BOARD OF COUNTY COMMISSIONERS

BY _____
Andy Hunthausen, Chairman

(Seal)
Attest: Paulette DeHart
Paulette DeHart, Clerk of the Board

abelin traffic services

September 16, 2015

Eric Griffin
Lewis & Clark County
3402 Cooney Drive
Helena, MT 59601

RE: North Montana Avenue Speed Study 2015 Update

Dear Eric,

Thank you for enquiring about the North Montana Avenue Speed Study conducted by Abelin Traffic Services (ATS) in September 2013. It is my understanding that you would like an evaluation of the study to determine if the data and conclusions of the Speed Study are still valid for 2015. Abelin Traffic Services contacted the Montana Department of Transportation to determine if any new data was available for this area for 2014. This data is included in the table below. The trend along North Montana Avenue is a continuing increase in traffic volumes.

Historic Traffic Data

Location	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Montana Ave. North of Lincoln Rd.	3,406	NCT	NCT	3,910	NCT	4,020	4,389	NCT	5,150	5,020	6,070	6,110

Abelin Traffic Services also performed a new spot speed study near Station 2 from the original 2013 speed investigation (north of Ranch View Road) in August 2015. The results of the new spot speed study were nearly identical to the information collected in 2013, except for the totally daily traffic which increased by 7%.

Vehicle Speed Data – Station 2

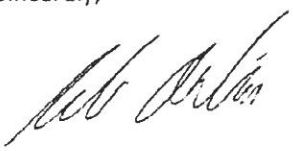
	September 2013	September 2015
Average Speed (MPH)	48.5	47.8
85% Percentile Speed (MPH)	55.5	55.0
10 MPH Pace Speeds	45-55	45-55
Percent in Pace	54.6	57.0
Observed Daily Traffic	4,600	4,900

The 2013 Speed Study performed by ATS along Montana Avenue recommended decreasing the speed limit from the existing 55 MPH to 45-50 MPH. All current growth trends and development patterns in this area suggest that this area will continue to grow. Increased traffic volumes along this road will cause additional congestion and enhance the need for a lower speed limit. Current growth projections

for this area suggest a continuing growth rate of 3.5% annually, which will increase the total traffic volume on North Montana Avenue to 12,000 vehicles per day by 2035.

Based on this analysis the data, conclusions, and recommendations from the September 2013 Speed Study for North Montana Avenue are still valid and the information may be presented as necessary to support a decrease in the posted speed limit. Vehicle speeds along this section of road have not changed significantly over the last two years. If you have any questions or concerns please contact me at 406-459-1443.

Sincerely,



Bob Abelin, P.E. PTOE
Abelin Traffic Services, Inc.

Classification Summary Report: MT AVE SPD

Station ID : MT AVE SPD

Info Line 1 : ATS
Info Line 2 : Unicorn #6
GPS Lat/Lon :
DB File : MT AVE SPD.DB

Last Connected Device Type : Unic-L
Version Number : 1.50
Serial Number : 99217

Number of Lanes : 2
Posted Speed Limit : 0.0 mph

Lane Configuration

#	Dir.	Information	Vehicle Sensors	Sensor Spacing	Loop Length
1.		SB	Axle-Axle	10.0 ft	
3.		NB	Axle-Axle	10.0 ft	

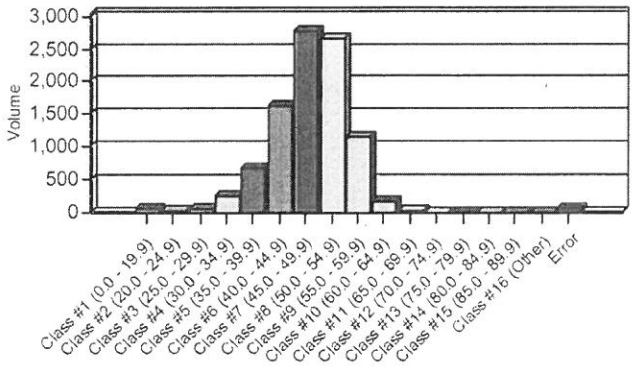
Speed Class Summary:

		#1 0.0 - 19.9	#2 20.0 - 24.9	#3 25.0 - 29.9	#4 30.0 - 34.9	#5 35.0 - 39.9	#6 40.0 - 44.9	#7 45.0 - 49.9	#8 50.0 - 54.9	#9 55.0 - 59.9	#10 60.0 - 64.9	#11 65.0 - 69.9	#12 70.0 - 74.9	#13 75.0 - 79.9	#14 80.0 - 84.9	#15 85.0 - 89.9	Other	Error	Total
Total Count :	#1.	23	28	31	109	318	753	1253	1359	642	113	14	4	1	3	5	3	22	4681
	#3.	27	3	36	139	362	862	1515	1310	507	64	8	2	1	1	1	3	24	4865
		50	31	67	248	680	1615	2768	2669	1149	177	22	6	2	4	6	6	46	9546
Percents :	#1.	0%	1%	1%	2%	7%	16%	27%	29%	14%	2%	0%	0%	0%	0%	0%	0%	0%	49%
	#3.	1%	0%	1%	3%	7%	18%	31%	27%	10%	1%	0%	0%	0%	0%	0%	0%	0%	51%
		1%	0%	1%	3%	7%	17%	29%	28%	12%	2%	0%	0%	0%	0%	0%	0%	0%	
Avg, 50, 67, 85 :	#1.	48.2	49.3	52.3	55.9														
	#3.	47.4	48.3	51.2	54.6														
		47.8	48.8	51.8	55.0														

Pace (pace %) :			
	45.0 - 54.9	55.8%	
	45.0 - 54.9	58.1%	
	45.0 - 54.9	57.0%	

Days & ADT :			
	#1.	2.0	11
	#3.	2.0	12
		2.0	23

Speed Class vs. Volume (all lanes)



abelin traffic services

September 16, 2015

Eric Griffin
Lewis & Clark County
3402 Cooney Drive
Helena, MT 59601

RE: North Montana Avenue Speed Study 2015 Update

Dear Eric,

Thank you for enquiring about the North Montana Avenue Speed Study conducted by Abelin Traffic Services (ATS) in September 2013. It is my understanding that you would like an evaluation of the study to determine if the data and conclusions of the Speed Study are still valid for 2015. Abelin Traffic Services contacted the Montana Department of Transportation to determine if any new data was available for this area for 2014. This data is included in the table below. The trend along North Montana Avenue is a continuing increase in traffic volumes.

Historic Traffic Data

Location	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
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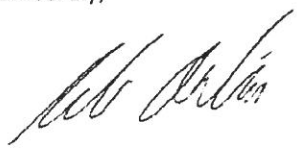
Observed Daily Traffic	4,600	4,900

The 2013 Speed Study performed by ATS along Montana Avenue recommended decreasing the speed limit from the existing 55 MPH to 45-50 MPH. All current growth trends and development patterns in this area suggest that this area will continue to grow. Increased traffic volumes along this road will cause additional congestion and enhance the need for a lower speed limit. Current growth projections

for this area suggest a continuing growth rate of 3.5% annually, which will increase the total traffic volume on North Montana Avenue to 12,000 vehicles per day by 2035.

Based on this analysis the data, conclusions, and recommendations from the September 2013 Speed Study for North Montana Avenue are still valid and the information may be presented as necessary to support a decrease in the posted speed limit. Vehicle speeds along this section of road have not changed significantly over the last two years. If you have any questions or concerns please contact me at 406-459-1443.

Sincerely,



Bob Abelin, P.E. PTOE
Abelin Traffic Services, Inc.

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		#1 0.0 - 19.9	#2 20.0 - 24.9	#3 25.0 - 29.9	#4 30.0 - 34.9	#5 35.0 - 39.9	#6 40.0 - 44.9	#7 45.0 - 49.9	#8 50.0 - 54.9	#9 55.0 - 59.9	#10 60.0 - 64.9	#11 65.0 - 69.9	#12 70.0 - 74.9	#13 75.0 - 79.9	#14 80.0 - 84.9	#15 85.0 - 89.9	Other	Error	Total
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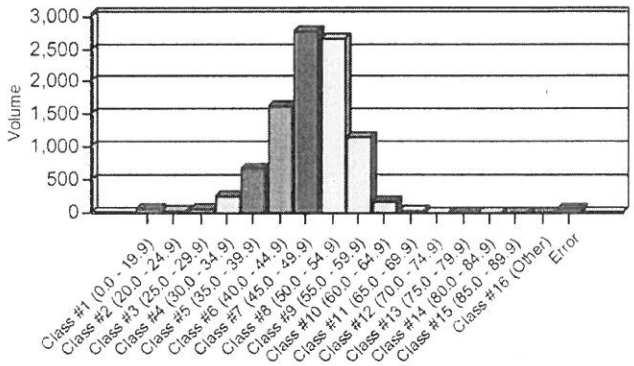
		50	31	67	248	680	1615	2768	2669	1149	177	22	6	2	4	6	6	46	9546
Percents :	#1.	0%	1%	1%	2%	7%	16%	27%	29%	14%	2%	0%	0%	0%	0%	0%	0%	0%	49%
	#3.	1%	0%	1%	3%	7%	18%	31%	27%	10%	1%	0%	0%	0%	0%	0%	0%	0%	51%
		1%	0%	1%	3%	7%	17%	29%	28%	12%	2%	0%	0%	0%	0%	0%	0%	0%	
Avg, 50, 67, 85 :	#1.	48.2	49.3	52.3	55.9	Pace (pace %) :			45.0 - 54.9		55.8%					Days & ADT :	#1.	2.0	11
	#3.	47.4	48.3	51.2	54.6				45.0 - 54.9		58.1%						#3.	2.0	12
		47.8	48.8	51.8	55.0				45.0 - 54.9		57.0%							2.0	23

Speed Class vs. Volume (all lanes)



abelin traffic services

December 12, 2014

Eric Griffin
Lewis & Clark County
3402 Cooney Drive
Helena, MT 59601

RE: North Montana Avenue Speed Study Update

Dear Eric,

Thank you for enquiring about the North Montana Avenue Speed Study conducted by Abelin Traffic Services (ATS) in September 2013. It is my understanding that you would like an evaluation of the study to determine if the data and conclusions of the Speed Study are still valid for 2014 and 2015. Abelin Traffic Services contacted the Montana Department of Transportation to determine if any new data was available for this area for 2014. The Montana Department of Transportation did not perform any traffic counts along this section of North Montana Avenue in 2014. However, additional data for North Montana Avenue was available from MDT for 2013. This data is included in the table below. The trend along North Montana Avenue is a continuing increase in traffic volumes.

Historic Traffic Data

Location	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Montana Ave. North of Lincoln Rd.	3,406	NCT	NCT	3,910	NCT	4,020	4,389	NCT	5,150	5,020	6,070

The 2013 Speed Study performed by ATS along Montana Avenue recommended decreasing the speed limit from the existing 55 MPH to 45-50 MPH. All current growth trends and development patterns in this area suggest that this area will continue to grow. Increased traffic volumes along this road will cause additional congestion and enhance the need for a lower speed limit. Current growth projections for this area suggest a continuing growth rate of 3.5% annually, which will increase the total traffic volume on North Montana Avenue to 12,000 vehicles per day by 2035.

The Montana Department of transportation is currently in the planning stages of needed intersection improvements at Montana Avenue and Lincoln Road which will likely result in the construction of a modern roundabout or traffic signal at this intersection. Decreasing the speed limit along North Montana Avenue from 55 MPH to 45-50 MPH will not have a significant impact the design or operations of this new intersection, but lower entry speeds are generally beneficial at any controlled intersection.

Based on this analysis the data, conclusions, and recommendations from the September 2013 Speed Study for North Montana Avenue are still valid and the information may be presented as necessary to

support a decrease in the posted speed limit. The likely changes in traffic volumes and vehicle speeds over the last year are small and will not change the conclusions from the previous report. If you have any questions or concerns please contact me at 406-459-1443.

Sincerely,

Bob Abelin, P.E. PTOE
Abelin Traffic Services, Inc.

abelin traffic services

Review

September 23, 2013

Eric Griffin
Lewis & Clark County
3402 Cooney Drive
Helena, MT 59601

RE: North Montana Avenue Speed Study

Dear Eric,

Per your request Abelin Traffic Services (ATS) has reviewed the existing speed limit on the North Montana Avenue north of Lincoln Road. The posted speed limit on this road is currently 55 MPH. Lewis & Clark County requested that ATS perform a speed study to determine if the posted speed limit is appropriate for the existing road conditions and projected future travel patterns in this area.

Existing Conditions

The study roadway begins at the intersection of North Montana Avenue and Lincoln Road. The road is straight and slopes upwards slightly to the north. North Montana Avenue dead-ends in the north hills three miles to the north. The roadside environment is characterized by numerous residential developments on both sides of the road with some open agricultural areas. See **Figure 1** for a map of the study roadway.

Through the study area, North Montana Avenue has a paved width of 23-24 feet on 90 feet of right-of-way. The road surface is in fair condition and there are no passing zones and no shoulder striping. Visibility on the road is very good and the clear zones have few obstructions. There is a pedestrian path along the west side of Montana Avenue between Lincoln Road and Prairie Road. The road currently has 25 public approaches and 19 private approaches. The Helena Valley Emergency Services Station #2 is located north of Valley View Road. There is an existing pedestrian crosswalk at Angus Road and another crosswalk is currently in the planning stages at Lucchese Road.

Historic traffic data for Montana Avenue was obtained from Lewis & Clark County. The historic data for this location is presented in **Table 1**. The data indicates that traffic volumes along North Montana Avenue have increased steadily over the past ten years and will likely continue to do so for the foreseeable future.

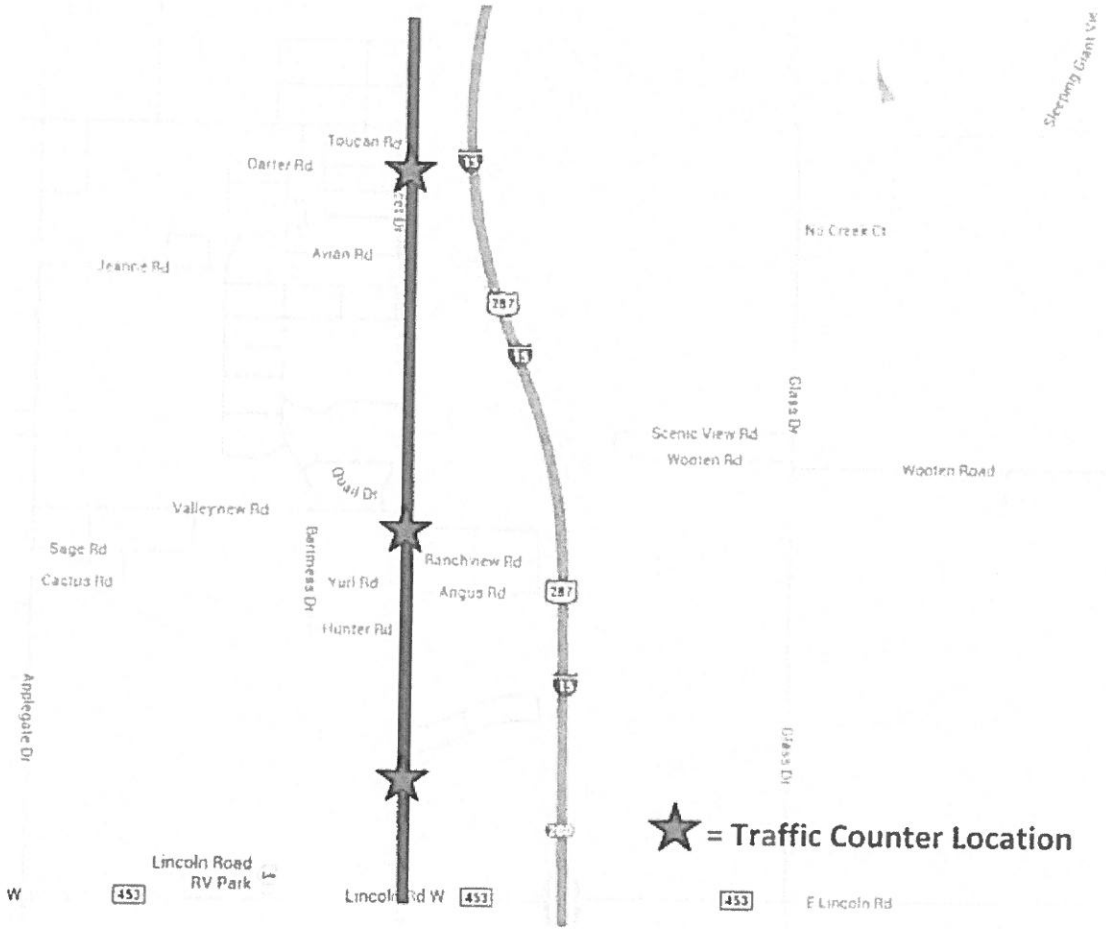
Table 1 – Historic Traffic Data

Location	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Montana Ave. North of Lincoln Rd.	3,331	3,406	NCT	NCT	3,910	NCT	4,020	4,389	NCT	5,150	5,020

130 South Howie Street
Helena, Montana 59601
406-459-1443

The Timber Works development is currently underway on 64 acres of land north of Lincoln Road which will be developed into a residential and commercial subdivision. The development will include up to 83 single-family residential lots and 22 commercial lots. Access to the site will be provided through the three approaches onto Montana Avenue and one approach onto Lincoln Road. The most northerly approach onto Montana Avenue will line up with Stetson Road. This project will ultimately produce over 5,000 new daily trips in this area, most of which will utilize the southern end of Montana Avenue.

Figure 1 - Vicinity Map



Crash Data

Abelin Traffic Services obtained crash data for the study roadway from the L&C County vehicle crash database. This data indicated that 16 vehicle crashes have occurred along North Montana Avenue over the past five years. Of these 16 crashes, five were multi-vehicle accidents, seven resulted in injuries, and three of the crashes involved more than one vehicle. No major crash concentrations were identified, but most of the crashes occurred at or near an intersection. Most of the crashes (56%) occurred in darkened conditions and nine occurred on icy or snowy roads. The crash rate on North Montana

Avenue is 1.1 crashes per million vehicle miles traveled, which is in line with the state average for secondary highways.

Speed Data

Vehicle speed data was collected at three locations along North Montana Avenue from September 4 to 6, 2013. The sites were located south of Lucchese Road (Station 1), north of Ranch View Road (Station 2), and south of Prairie Drive (Station 3). The weather conditions during the traffic study were warm and dry with very good driving conditions throughout the data collection period. The data was collected continuously using Diamond Unicorn Limited traffic counters to record the individual speed data from every vehicle using the road. The results of the data collection are shown in **Table 1**.

TABLE 1 – Vehicle Speed Data

	Station 1	Station 2	Station 3
Average Speed (MPH)	48.7	48.5	42.0
85% Percentile Speed (MPH)	54.9	55.5	53.4
10 MPH Pace Speeds	45-55	45-55	30-40
Percent in Pace	59.4	54.6	39.6
Observed Daily Traffic	5,775	4,600	1,520

The speed data indicates that the vehicle speeds along North Montana Avenue are fairly consistent. The most commonly used road operations characteristic for posting a speed limit is the 85th percentile speed (the speed at which 85% of road uses are driving at or below). However, it is reasonable to set a posted speed limit below the 85th percentile speeds if the road conditions and roadside environment are inconsistent with the observed vehicle speeds. The 85th percentile speeds at the three count locations varied from 53 to 55 MPH. The 10 MPH pace speeds (the 10 MPH range in which the most road users are driving) were 45-55 MPH at the southern two locations and 30-40 MPH at the northern study location. The decrease in the pace speeds at the northern location (Station 3) may have been due to the proximity to Prairie Drive. In general it is desirable to have the majority of traffic on a roadway traveling within or around the 10 MPH pace. This decreases the variability in vehicle speeds and decreases vehicle conflicts.

It is notable that the existing speed limit on North Montana Avenue is higher than the speed limits on the residential portions of Canyon Ferry Road (45 MPH, 6,300 VPD), Lake Helena Drive (35 MPH, 1,900 VPD), and Valley Drive (35 MPH, 2,000) even though these roads have similar or better road conditions, similar traffic volumes, and fewer conflict points.

Recommendations

It is recommended that the posted speed limits on North Montana Avenue be lowered from 55 MPH to 45-50 MPH. This change would bring the road in line with the speed limits on other similar roads within the County and would be within the 10 MPH pace speeds observed on the road. The speed data supports dropping the existing 55 MPH speed limit slightly as most drivers are currently traveling under the posted speed limit. North Montana Avenue is a dead-end road and serves local residential traffic

only. With the level of growth on this road, the existing road conditions, the numbers of public and private approaches, and the existing pedestrian crosswalks, a decreased speed limit is justifiable. If the speed limit is dropped to 45 MPH it would take an additional 30 seconds to drive from Lincoln Road to Prairie Road. If you have any questions about these results please feel free to call me at 406-459-1443

Sincerely,

Bob Abelin, P.E.
Abelin Traffic Services, Inc.

Special Speed Study Summary: MTAVE1

Description	Lane	#1 1 - 10	#2 10.1 - 15	#3 15.1 - 20	#4 20.1 - 25	#5 25.1 - 30	#6 30.1 - 35	#7 35.1 - 40	#8 40.1 - 45	#9 45.1 - 50	#10 50.1 - 55	#11 55.1 - 60	#12 60.1 - 65	#13 65.1 - 70	#14 70.1 - 75	#15 75.1 - 80	#16 80.1 - 85	#17 85.1 - 90	#18 90.1 - 95	Error	
Grand Total :	**#1**	0	0	9	9	32	177	420	1040	1944	1447	405	43	7	5	1	0	0	1	28	55
Percent :		0%	0%	0%	0%	1%	3%	8%	19%	35%	26%	7%	1%	0%	0%	0%	0%	0%	0%	1%	
Cum. Percent :		0%	0%	0%	0%	1%	4%	12%	30%	65%	91%	98%	99%	99%	99%	99%	99%	99%	99%	100%	
Average :		0	0	0	0	1	4	9	23	43	32	9	1	0	0	0	0	0	0	1	1
ADT = 2970		Average Speed : 47.8 mph				50% Speed : 48.0 mph					67% Speed : 50.5 mph					85% Speed : 53.9 mph					
											10mph Pace: 45.0 - 54.9 (61.1%)										
Grand Total :	**#3**	0	0	0	8	48	160	311	690	1406	1611	809	147	33	7	1	1	2	1	22	52
Percent :		0%	0%	0%	0%	1%	3%	6%	13%	27%	31%	15%	3%	1%	0%	0%	0%	0%	0%	0%	
Cum. Percent :		0%	0%	0%	0%	1%	4%	10%	23%	50%	81%	96%	99%	99%	99%	99%	99%	100%	100%	100%	
Average :		0	0	0	0	1	4	7	15	31	36	18	3	1	0	0	0	0	0	0	1
ADT = 2804		Average Speed : 49.7 mph				50% Speed : 50.2 mph					67% Speed : 52.9 mph					85% Speed : 56.5 mph					
											10mph Pace: 45.2 - 55.1 (57.7%)										
Comb. Total :		0	0	9	17	80	337	731	1730	3350	3058	1214	190	40	12	2	1	2	2	50	108
Percent :		0%	0%	0%	0%	1%	3%	7%	16%	31%	28%	11%	2%	0%	0%	0%	0%	0%	0%	0%	
Cum. Percent :		0%	0%	0%	0%	1%	4%	11%	27%	58%	86%	97%	99%	99%	99%	99%	99%	99%	100%	100%	
Average :		0	0	0	0	2	7	16	38	74	68	27	4	1	0	0	0	0	0	1	2
ADT = 5775		Average Speed : 48.7 mph				50% Speed : 48.8 mph					67% Speed : 51.8 mph					85% Speed : 54.9 mph					
											10mph Pace: 45.2 - 55.1 (59.4%)										

Special Speed Study Summary: MTAVE2

Description	Lane	#1 1 - 10	#2 10.1 - 15	#3 15.1 - 20	#4 20.1 - 25	#5 25.1 - 30	#6 30.1 - 35	#7 35.1 - 40	#8 40.1 - 45	#9 45.1 - 50	#10 50.1 - 55	#11 55.1 - 60	#12 60.1 - 65	#13 65.1 - 70	#14 70.1 - 75	#15 75.1 - 80	#16 80.1 - 85	#17 85.1 - 90	#18 90.1 - 95	Error	
Grand Total :	**#1**	6	6	22	40	55	113	387	694	1007	1123	573	111	12	1	2	3	0	1	27	41
Percent :		0%	0%	1%	1%	1%	3%	9%	17%	24%	27%	14%	3%	0%	0%	0%	0%	0%	0%	1%	
Cum. Percent :		0%	0%	1%	2%	3%	6%	15%	32%	56%	83%	96%	99%	99%	99%	99%	99%	99%	99%	100%	
Average :		0	0	0	1	1	3	9	15	22	25	13	2	0	0	0	0	0	0	1	
ADT = 2232		Average Speed : 48.4 mph					50% Speed : 48.9 mph					67% Speed : 52.3 mph				85% Speed : 56.0 mph					
												10mph Pace: 45.2 - 55.1 (51.2%)									
Grand Total :	**#3**	5	9	21	15	36	114	281	762	1352	1197	520	83	16	4	2	1	1	0	21	44
Percent :		0%	0%	0%	0%	1%	3%	6%	17%	30%	27%	12%	2%	0%	0%	0%	0%	0%	0%	0%	
Cum. Percent :		0%	0%	1%	1%	2%	5%	11%	28%	58%	85%	97%	99%	99%	99%	99%	100%	100%	100%	100%	
Average :		0	0	0	0	1	3	6	17	30	27	12	2	0	0	0	0	0	0	0	
ADT = 2368		Average Speed : 48.5 mph					50% Speed : 48.7 mph					67% Speed : 51.8 mph				85% Speed : 55.0 mph					
												10mph Pace: 45.2 - 55.1 (57.7%)									
Comb. Total :		11	15	43	55	91	227	668	1456	2359	2320	1093	194	28	5	4	4	1	1	48	86
Percent :		0%	0%	0%	1%	1%	3%	8%	17%	27%	27%	13%	2%	0%	0%	0%	0%	0%	0%	1%	
Cum. Percent :		0%	0%	1%	1%	2%	5%	13%	30%	57%	84%	97%	99%	99%	99%	99%	99%	99%	99%	100%	
Average :		0	0	1	1	2	5	15	32	52	52	24	4	1	0	0	0	0	0	1	1
ADT = 4600		Average Speed : 48.5 mph					50% Speed : 48.8 mph					67% Speed : 52.0 mph				85% Speed : 55.5 mph					
												10mph Pace: 45.2 - 55.1 (54.6%)									

Special Speed Study Summary: MTAVE3

Description	Lane	#1 1 - 10	#2 10.1 - 15	#3 15.1 - 20	#4 20.1 - 25	#5 25.1 - 30	#6 30.1 - 35	#7 35.1 - 40	#8 40.1 - 45	#9 45.1 - 50	#10 50.1 - 55	#11 55.1 - 60	#12 60.1 - 65	#13 65.1 - 70	#14 70.1 - 75	#15 75.1 - 80	#16 80.1 - 85	#17 85.1 - 90	#18 90.1 - 95	Error	
Grand Total :	**#1**	0	1	4	20	170	376	166	122	174	194	101	21	6	2	1	0	0	0	2	1
Percent :		0%	0%	0%	1%	13%	28%	12%	9%	13%	14%	7%	2%	0%	0%	0%	0%	0%	0%	0%	
Cum. Percent :		0%	0%	0%	2%	14%	42%	54%	63%	76%	90%	98%	99%	100%	100%	100%	100%	100%	100%	100%	
Average :		0	0	0	0	4	8	4	3	4	4	2	0	0	0	0	0	0	0	0	
ADT = 725		Average Speed : 40.7 mph					50% Speed : 38.3 mph					67% Speed : 46.8 mph				85% Speed : 53.2 mph					
												10mph Pace: 27.3 - 37.2 (40.1%)									
Grand Total :	**#3**	0	1	3	6	52	206	381	272	204	210	123	24	3	2	0	0	0	0	4	1
Percent :		0%	0%	0%	0%	3%	14%	26%	18%	14%	14%	8%	2%	0%	0%	0%	0%	0%	0%	0%	
Cum. Percent :		0%	0%	0%	1%	4%	18%	44%	62%	75%	90%	98%	99%	100%	100%	100%	100%	100%	100%	100%	
Average :		0	0	0	0	1	5	8	6	5	5	3	1	0	0	0	0	0	0	0	
ADT = 795		Average Speed : 43.2 mph					50% Speed : 42.0 mph					67% Speed : 47.2 mph				85% Speed : 53.4 mph					
												10mph Pace: 35.2 - 45.1 (42.8%)									
Comb. Total :		0	2	7	26	222	582	547	394	378	404	224	45	9	4	1	0	0	0	6	2
Percent :		0%	0%	0%	1%	8%	20%	19%	14%	13%	14%	8%	2%	0%	0%	0%	0%	0%	0%	0%	
Cum. Percent :		0%	0%	0%	1%	9%	29%	49%	62%	76%	90%	98%	99%	100%	100%	100%	100%	100%	100%	100%	
Average :		0	0	0	1	5	13	12	9	8	9	5	1	0	0	0	0	0	0	0	
ADT = 1520		Average Speed : 42.0 mph					50% Speed : 40.6 mph					67% Speed : 46.9 mph				85% Speed : 53.4 mph					
												10mph Pace: 30.1 - 40.0 (39.6%)									