



## MEMORANDUM

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**DATE:** September 17, 2021

**TO:** Dan Sanayi, Montgomery County Department of Transportation

**FROM:** Kristen Haas, P.E., PTOE, STV

**SUBJECT:** White Flint Intersection Concept Designs – Tower Oaks Boulevard at Montrose Road

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### Introduction

A Critical Lane Volume (CLV) analysis was previously conducted for the intersection of Tower Oaks Boulevard at Montrose Road, which concluded that the intersection currently operates at a LOS F during the AM peak hour and LOS D during the PM peak hour and future traffic growth is projected to further exacerbate intersection capacity. The failing operation at this intersection can be mainly attributed to high eastbound through volumes, and as such, it is recommended that additional capacity be provided for this movement. There are geometric limitations to adding capacity on the eastbound approach due to the location of the I-270 off ramp to eastbound Montrose Road. As such, STV has developed two concept alternatives to convert this intersection into a Continuous Green-T intersection so that eastbound through traffic is free flowing rather than controlled by the traffic signal. The purpose of this memorandum is to document the results of queuing and safety analyses conducted for the intersection to determine the impacts associated with the recommended improvement, as well as verify the necessary acceleration lane length for the southbound left turn.

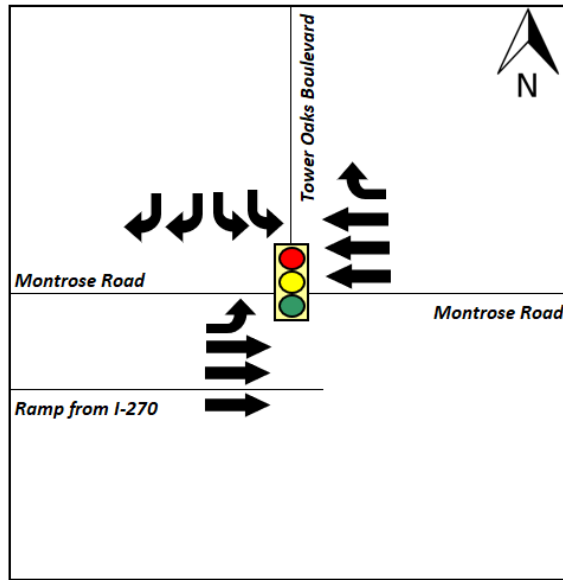
### Existing Conditions

The existing lane use and traffic control for the study intersection are shown in **Figure 1**. Weekday peak period turning movement counts were conducted in May 2021 during the COVID-19 pandemic. Due to the pandemic and its effect on traffic volumes, the 2021 peak hour volumes were compared to a count conducted in 2018. The comparison showed a 34% reduction in AM volumes and a 25% reduction in PM volumes. As such, the 2018 volumes were used as a base for this study to reflect a more conservative analysis. The 2018 and 2021 turning movement counts, as well as a comparison of the two, are provided in **Attachment A**.

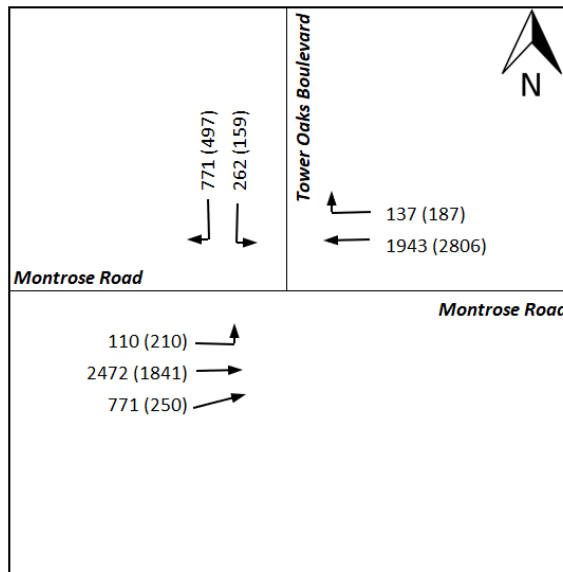
The 2018 volumes were updated to include trips associated with the Tower Oaks development currently under construction north of the study intersection. The development is expected to generate 202 and 269 new trips during the AM and PM peak hours, respectively, according to projections provided by the City of Rockville. The resultant existing intersection volumes are shown in **Figure 2**.

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**Figure 1: Existing Lane Use and Traffic Control**



XX (XX): AM (PM) Peak Hour Vehicular Volume

**Figure 2: Existing Intersection Volumes**

**CLV Analysis**

Existing and proposed intersection capacity was analyzed using the Critical Lane Volume (CLV) methodology. Volume to capacity (v/c) ratios, expressed in the results table as a percent of congestion, were calculated based on a comparison of the calculated CLV to the Maryland-National Capital Park and Planning Commission (M-

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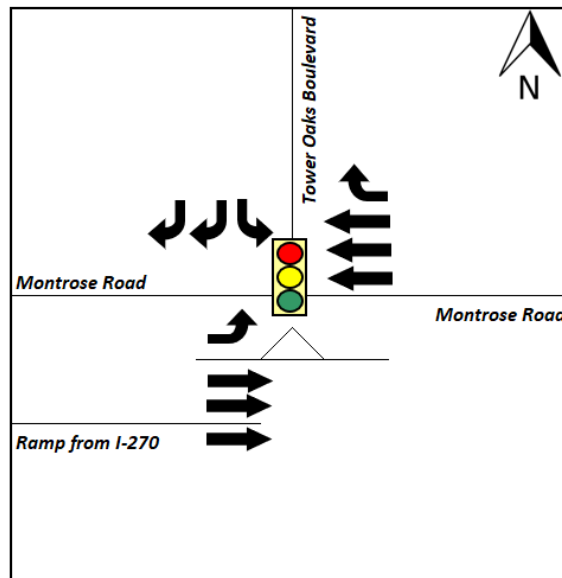
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NCPPC) policy area CLV thresholds listed in the 2016 *Local Area Transportation Review (LATR)*. Intersection Level of Service (LOS) was determined based on guidance from the Federal Highway Administration’s *Signalized Intersections Informal Guide* publication on signalized intersection analysis as shown in **Table 1**.

**Table 1: LOS Thresholds**

Intersection v/c	LOS
< 0.65	A
0.65 to < 0.75	B
0.75 to < 0.85	C
0.85 to < 0.95	D
0.95 to <= 1.00	E
> 1.00	F

As previously indicated, a concept has been developed to convert this intersection into a Continuous Green-T intersection. This improvement would allow eastbound through vehicles to operate freely rather than be controlled by the traffic signal. This improvement would also require one of the southbound left turn lanes to be removed as well as portions of the medians on the east and west leg. The proposed lane use is shown in **Figure 3**. Two concept plans have been prepared showing the Continuous Green-T intersection configuration and are provided in **Attachment B**. In both alternatives, the Montrose Road at Tower Oaks Boulevard intersection configuration is the same; however, the alternatives differ in pavement markings provided at the Tower Oaks Boulevard at North Farm Lane unsignalized intersection.



**Figure 3: Proposed Lane Use and Traffic Control**

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The AM and PM peak hour results of the CLV analysis for existing and proposed conditions are summarized in **Table 2**, and the CLV calculation sheets are provided in **Attachment C**.

**Table 2: CLV Analysis**

Policy Area Threshold	AM Peak Hour			PM Peak Hour		
	% of Congestion	CLV	LOS	% of Congestion	CLV	LOS
2018 Existing Conditions						
1,550	111%	1,723	F	96%	1,490	E
2018 Proposed Conditions						
1,550	81%	1,251	C	96%	1,491	E
2042 Future Conditions						
1,550	143%	2,210	F	123%	1,909	F
2042 Proposed Conditions						
1,550	103%	1,604	E	123%	1,909	F

The results of the CLV analysis indicate that the intersection currently operates at LOS F during the AM peak hour and LOS E during the PM peak hour. Constructing a Continuous Green-T intersection at this location does not significantly affect the intersection LOS during the PM peak hour but improves the AM peak hour from LOS F to LOS C. Under 2042 future conditions, the intersection is projected to operate at LOS F during both peak hours. The intersection improvement is projected to improve intersection LOS to LOS E during the AM peak hour.

**Speed Data Analysis**

Seven day speed data was collected along east- and westbound Montrose Road in May and June of 2021. The weekday speed data indicates that the average and 85<sup>th</sup> percentile speeds are 42 and 48 MPH, respectively in the eastbound direction and 43 and 49 MPH in the westbound direction.

Data was collected to the east and west of the intersection and the weekday average and 85<sup>th</sup> percentile speeds are summarized in Table 3. The speed data is provided in **Attachment D**.

**Table 3: Weekday Speed Data**

Speed Data Location	Average Speed (MPH)	85 <sup>th</sup> Percentile Speed (MPH)
Eastbound (45 MPH Speed Limit)		
West of Tower Oaks Boulevard	45	51
East of North Farm Lane	41	46
Westbound (40 MPH Speed Limit)		
West of Tower Oaks Boulevard	45	51
East of North Farm Lane	41	47

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The weekday speed data indicates that speeds are generally higher to the west of the intersection, near the I-270 interchange. Based on the existing location of speed limit signs, the speed limit on eastbound Montrose Road is 45 MPH through the study intersection and becomes 40 MPH east of North Farm Lane, whereas the posted speed limit along westbound Montrose Road is 40 MPH through the study area. Speeding is typically considered an issue if the 85<sup>th</sup> percentile speed is at least 8 MPH greater than the posted speed limit. As such, speeding is only considered an issue in the westbound direction west of the intersection. It should also be noted that speeds are lower during the AM and PM peak hours, where 85<sup>th</sup> percentile speeds are 43 MPH and 44 MPH in the east- and westbound directions, respectively, during the AM peak hour and 43 MPH in both directions during the PM peak hour.

### Queuing Analysis

A queuing analysis using SimTraffic software was also conducted to determine the impacts of reconstructing the intersection into a Continuous Green-T intersection and to determine an appropriate length for the southbound left turn acceleration lane. Based on guidance provided in the *American Association of State Highway and Transportation Officials (AASHTO) A Policy on Geometric Design of Highways and Streets (2011 Edition)*, a minimum acceleration length of 360 feet is recommended to allow a vehicle from a stop condition to accelerate to a 40 miles per hour speed limit. This distance of 360 feet was used in the SimTraffic model as a basis for this analysis. SimTraffic driving parameters were also updated to reflect the speed data collected for Montrose Road to calibrate the queuing model.

Signal phasing at the Tower Oaks Boulevard and Montrose Road intersection was updated to reflect the free flowing eastbound through movement and signal timings were optimized. In addition to modeling the study intersection, the pedestrian signal at the intersection of Montrose Road at North Farm Lane was included in the model so that any queuing associated with the pedestrian signal would be reflected. Volumes on Montrose Road were balanced from the study intersection volumes, and 5 and 20 pedestrian calls per hour were assumed for the AM and PM peak hours, respectively, based on input from Montgomery County Department of Transportation Traffic Management Center. As previously noted, the alternative options operate are the same at the Tower Oaks Boulevard at Montrose Road intersection as well as along Montrose Road; therefore, the concepts were not modeled separately.

The results of the queuing analysis for the affected movements, i.e. the southbound left turn and eastbound through at Tower Oaks Boulevard at Montrose Road and the eastbound through at the pedestrian signal at North Farm Lane, are shown in **Table 4**. SimTraffic worksheets are provided in **Attachment E**.

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**Table 4: 2018 Queuing Analysis**

Intersection	Movement	Storage Distance <sup>2</sup> (ft)	AM Peak Hour		PM Peak Hour	
			Average Q <sup>1</sup> (ft)	95 <sup>th</sup> % Q <sup>1</sup> (ft)	Average Q <sup>1</sup> (ft)	95 <sup>th</sup> % Q <sup>1</sup> (ft)
Existing Conditions						
Tower Oaks Blvd at Montrose Rd	SBL	375/1,225	300	875	100	150
	SBR	250/1,225	750	1,175	250	325
	EBT	3,365	225	375	125	225
Pedestrian Signal	EBT	625	75	300	100	275
Proposed Conditions						
Tower Oaks Blvd at Montrose Rd	SBL	1,225	150	250	125	200
	SBR	250/1,225	275	400	225	325
	EBT	3,365	25	150	-	-
Pedestrian Signal	EBT	625	75	500	175	425

1- Queues rounded to the nearest 25 feet

2- Storage distance measured from upstream signalized intersection

The results of the queuing analysis indicate that significant southbound left turn queues occur during the AM peak hour as a result of the additional southbound traffic added to the intersection from the Tower Oaks development. It should be noted, however, that this left turn queue reflects vehicles in the left turn lane being blocked by vehicles trying to get into the adjacent right turn lane. The southbound right turn queues during the AM peak hour under existing conditions are extensive and block the adjacent lanes as well as impede traffic trying to turn from North Farm Lane onto southbound Tower Oaks Boulevard.

Under the proposed conditions, queues are significantly reduced on the southbound approach during the AM peak hour as a result of reallocated green time given to the southbound approach made possible by implementing the Continuous Green-T intersection configuration. It should be noted, however, that the projected 95<sup>th</sup> percentile queues for the southbound left turn of 250 feet and 200 feet during the AM and PM peak hour, respectively, indicate that North Farm Lane, which is approximately 165 feet north of the Montrose Road, may occasionally be blocked. This blockage is not anticipated to occur throughout the peak hour and thus not anticipated to effect traffic patterns within the North Farm community. In order to further provide relief to the North Farm community, “Do Not Block Intersection” pavement markings are recommended under both alternative options.

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Additionally, the higher projected 95<sup>th</sup> percentile queue for the southbound left turn is 250 feet, indicating that the AASHTO recommended acceleration length of 360 feet on eastbound Montrose Road to North Farm Lane is sufficient. While the 95<sup>th</sup> percentile queue for the eastbound through at the pedestrian signal increases during both peak hours, this queue does not extend to Tower Oaks Boulevard.

**Safety Analysis**

Available crash data was obtained from the County for the study intersection and crash data by type for the 5-year period of 2016 through 2020 is shown in **Figure 4**. The crash data is provided in **Attachment F**.



**Figure 4: Crash Types at Montrose Road at Tower Oaks Boulevard (2016-2020)**

As shown in Figure 4, fifty crashes were reported at the intersection between 2016 and 2020. The fifty crashes consisted of 28 rear end crashes, seven angle crashes, four left turn crashes, four single vehicle crashes, three sideswipe crashes, two right turn crashes, and two crashes identified as other. It should be noted that of the four left turn crashes, three were identified as same direction left turn crashes while only one was identified as a head on left turn crash, indicating that left turn crashes from eastbound Montrose Road to northbound Tower Oaks Boulevard are not predominant at the intersection. Sixteen of the 50 crashes resulted in an injury, while the remaining 34 crashes were identified as property damage only.

**Vision Zero**

MCDOT’s Vision Zero policy seeks to reduce transportation-related injuries and fatalities. As noted, there were no pedestrian or bicycle crashes in the 5-year period of 2016 through 2020 at the Montrose Road at Tower

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Oaks Boulevard intersection or at the North Farm Lane signalized pedestrian crossing. Additionally, the proposed design seeks to improve pedestrian safety at the Montrose Road at Tower Oaks Boulevard intersection by shortening the pedestrian crosswalk across Tower Oaks Boulevard, reducing the amount of time that pedestrians are in the roadway.

At the Montrose Road at North Farm Lane signalized pedestrian crossing, the proposed design increases the pedestrian crossing distance by a maximum of three feet. Based on the MUTCD standard pedestrian walking speed of 3.5 feet per second, the maximum three feet of widening equates to less than 1 additional second in the roadway. Additionally, the signal timings for the North Farm Lane intersection were reviewed and the existing timings meet MUTCD standards for adequate Flashing Don't Walk time to cross Montrose Road. Since the signal is timed for a pedestrian to fully cross both east- and westbound Montrose Road, the proposed design would not impact signal timings as the maximum three feet of widening cuts into the existing median. The FHWA Crash Modification Factors Clearinghouse website provides Crash Modification Factors (CMFs) to project how different intersection treatments will impact the quantity, type, and severity of crashes. It should be noted that there were no applicable CMFs associated with installing an acceleration lane in the vicinity of a signalized pedestrian crossing.

In addition to an expected improvement to traffic operations, converting the study intersection to a Continuous Green-T intersection is expected to improve safety and reduce the number of expected crashes, particularly those that result in injury. The FHWA Crash Modification Factors Clearinghouse website indicates that the CMF associated with converting a conventional signalized intersection into a Continuous Green-T intersection is 0.958 for all crashes, meaning that a 4.2 percent reduction of all crashes can be estimated. Further, the CMF for fatal, serious, minor, and possible injury crashes is 0.846, resulting in an estimated 15.4 percent reduction in injury crashes. Details from the CMF website are provided in **Attachment G**. It should also be noted that more than half of the reported crashes between 2016 and 2020 were rear end crashes, seven of which occurred in the eastbound direction. The Continuous Green-T intersection would likely result in a reduction of rear end crashes due to the decreased congestion, particularly in the eastbound direction where vehicles would no longer need to stop at the intersection.

### Conclusion

The purpose of this memorandum is to document the results of CLV and queuing analyses conducted for the intersection of Tower Oaks Boulevard at Montrose Road. Based on the existing CLV analysis, the intersection operates at LOS F during AM peak hour and LOS E during the PM peak hour. The failing operation can be partially attributed to the high volume of eastbound throughs at this location. Two concepts were developed to reconstruct the intersection into a Continuous Green-T intersection to allow the eastbound throughs to operate freely from the traffic signal. The results of the CLV analysis indicate that the intersection LOS will improve during the AM peak hour with the proposed improvements and will remain the same during the PM peak hour. The results of the queuing analysis indicate that queues are significantly reduced on the southbound approach during the AM peak hour as a result of reallocated green time given to the southbound approach made possible by implementing the Continuous Green-T intersection configuration. The reduction in southbound queuing will also reduce the amount of time that southbound vehicles block the unsignalized intersection of North Farm Lane at Tower Oaks Boulevard. In order to further provide relief to the North Farm community, "Do Not Block Intersection" pavement markings are recommended under both alternative options. Additionally, the AAHSTO



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recommended acceleration length of 360 feet along eastbound Montrose Road is sufficient and queues are not projected to exceed available storage capacity under existing or proposed conditions.

The safety analysis indicates that the conversion to a Continuous Green-T intersection is projected to reduce fatal, serious, minor, and possibly injury crashes by 15.4 percent, consistent with MCDOT's Vision Zero policy. Additionally, the proposed design improves pedestrian safety at the Montrose Road at Tower Oaks Boulevard intersection by shortening the pedestrian crosswalk across Tower Oaks Boulevard, reducing the amount of time that pedestrians are in the roadway. The proposed concept alternatives improve traffic operations while enhancing pedestrian and vehicular safety at the Montrose Road at Tower Oaks Boulevard intersection. The proposed improvements are projected to decrease congestion on eastbound Montrose Road and are not expected to adversely impact traffic operations at downstream signalized intersections on the corridor.

ATTACHMENT

A

Turning Movement Count Data

Start Date: 1/11/2018

Start Time: 6:00:00 AM

Site Code: TOWER OAKS BLVD @ MONTROSE RD

VEHS

Start Time	TOWER OAKS BLVD From North				MONTROSE RD From East				TOWER OAKS BLVD From South				MONTROSE RD From West			
	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds
06:00	3	0	88	0	0	110	2	0	0	0	0	0	4	213	0	0
06:15	8	0	102	0	0	124	3	0	0	0	0	0	11	257	0	0
06:30	10	0	123	0	0	138	2	0	0	0	0	0	10	340	0	0
06:45	14	0	152	0	0	171	11	0	0	0	0	0	15	385	0	0
07:00	23	0	140	0	0	219	8	0	0	0	0	0	10	379	0	0
07:15	24	0	142	0	0	268	10	0	0	0	0	0	11	366	0	0
07:30	48	0	151	0	0	340	16	0	0	0	0	0	7	522	0	0
07:45	80	0	167	0	0	417	22	0	0	0	0	0	12	573	0	0
08:00	64	0	154	0	0	515	38	0	0	0	0	0	16	673	0	0
08:15	58	0	188	0	0	551	41	0	0	0	0	0	11	601	0	0
08:30	47	0	156	0	0	403	21	0	0	0	0	0	14	568	0	0
08:45	48	0	167	0	0	474	22	0	0	0	0	0	30	630	0	0
	427	0	1730	0	0	3730	196	0	0	0	0	0	151	5507	0	0
15:30	19	0	106	0	0	582	20	0	0	0	0	0	21	459	0	0
15:45	15	0	82	0	0	581	32	0	0	0	0	0	22	453	0	0
16:00	17	0	77	0	0	571	30	0	0	0	0	0	24	408	0	0
16:15	21	0	98	0	0	684	31	1	0	0	0	0	17	415	0	0
16:30	35	0	102	0	0	642	34	1	0	0	0	0	16	378	0	0
16:45	20	0	92	1	0	741	31	0	0	0	0	0	23	460	0	0
17:00	39	0	107	0	0	631	37	0	0	0	0	0	24	422	0	0
17:15	33	0	113	1	0	724	30	0	0	0	0	0	23	471	0	0
17:30	37	0	115	0	0	710	38	0	0	0	0	0	19	488	0	0
17:45	33	0	97	0	0	633	67	0	0	0	0	0	24	500	0	0
18:00	23	0	83	0	0	532	64	1	0	0	0	0	25	413	0	0
18:15	21	0	86	0	0	561	75	0	0	0	0	0	22	426	0	0
	313	0	1158	2	0	7592	489	3	0	0	0	0	260	5293	0	0

Start Date: 1/11/2018

Start Time: 6:00:00 AM

Site Code: TOWER OAKS BLVD @ MONTROSE RD

UTURNS

Start Time	TOWER OAKS BLVD From North				MONTROSE RD From East				TOWER OAKS BLVD From South				MONTROSE RD From West			
	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds
06:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:15	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
06:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45	0	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	0
08:15	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
08:30	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
08:45	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0
15:30	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
15:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16:00	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
16:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16:30	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
16:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17:00	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
17:15	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
17:30	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
17:45	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
18:00	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
18:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0



Start Date: 5/11/2021

Start Time: 6:00:00 AM

Site Code: MONTROSE RD @ TOWER OAKS BLVD TMC

VEHS

Start Time	TOWER OAKS BLVD			MONTROSE RD			From South			MONTROSE RD		
	From North	From North	Peds	From East	From East	Peds	From South	From South	Peds	From West	From West	Peds
	Left	Right		Thru	Right					Left	Thru	
6:00:00 AM	1	53	1	90	1	1			0	2	99	0
6:15:00 AM	2	64	0	140	3	0			0	4	98	0
6:30:00 AM	1	86	0	179	4	0			0	9	158	0
6:45:00 AM	1	101	0	168	5	1			0	9	210	0
7:00:00 AM	6	91	0	204	8	0			0	6	202	0
7:15:00 AM	13	103	0	272	11	0			0	10	256	2
7:30:00 AM	16	50	0	331	5	0			0	8	279	0
7:45:00 AM	24	90	0	356	12	0			0	10	420	0
8:00:00 AM	18	93	3	404	26	0			0	18	398	0
8:15:00 AM	9	107	0	375	19	0			0	29	353	0
8:30:00 AM	15	97	0	355	14	0			0	22	354	0
8:45:00 AM	12	87	0	308	18	0			0	20	358	0
9:00:00 AM	13	76	0	278	22	0			0	21	341	0
9:15:00 AM	19	87	0	306	14	0			0	14	270	0
9:30:00 AM	14	85	2	265	12	0			0	11	288	0
9:45:00 AM	11	68	0	236	18	0			0	12	328	0
10:00:00 AM	18	77	0	227	19	0			0	10	269	0
10:15:00 AM	6	72	0	296	8	0			0	17	274	0
10:30:00 AM	10	88	0	282	15	0			0	19	289	0
10:45:00 AM	12	65	0	304	16	0			0	15	297	0
11:00:00 AM	14	77	0	280	13	0			0	14	280	0
11:15:00 AM	9	65	0	299	10	0			0	12	304	0
11:30:00 AM	8	67	0	338	17	0			0	11	259	1
11:45:00 AM	20	61	1	327	18	0			0	21	330	1
12:00:00 PM	18	53	0	335	16	0			0	16	283	0
12:15:00 PM	13	86	0	352	15	2			0	15	260	0
12:30:00 PM	11	70	0	334	16	0			0	21	267	0
12:45:00 PM	17	91	0	327	15	1			0	16	291	0
1:00:00 PM	12	65	0	384	13	2			0	11	295	1
1:15:00 PM	6	68	0	371	12	1			0	14	283	0
1:30:00 PM	13	60	0	341	19	0			0	14	298	0
1:45:00 PM	19	54	0	364	11	0			0	19	288	2
2:00:00 PM	16	78	0	359	10	0			0	12	260	0
2:15:00 PM	12	61	0	415	13	0			0	17	336	0
2:30:00 PM	26	91	0	459	17	0			0	9	372	2
2:45:00 PM	11	87	0	504	35	0			0	18	395	0
3:00:00 PM	19	82	0	476	22	0			0	17	322	0
3:15:00 PM	23	57	0	456	19	0			0	16	295	0
3:30:00 PM	22	63	0	446	22	0			0	9	301	0
3:45:00 PM	13	74	0	463	22	0			0	17	361	0
4:00:00 PM	20	63	0	452	14	0			0	21	280	0
4:15:00 PM	32	57	0	478	12	0			0	19	307	0
4:30:00 PM	17	76	1	468	15	0			0	11	374	0
4:45:00 PM	20	42	0	526	21	0			0	17	372	0
5:00:00 PM	15	98	0	511	13	0			0	18	361	2
5:15:00 PM	17	77	0	538	21	0			0	12	352	0
5:30:00 PM	23	72	0	566	15	0			0	17	346	1
5:45:00 PM	9	80	1	454	15	0			0	12	337	0
6:00:00 PM	13	79	0	555	14	0			0	13	300	0
6:15:00 PM	16	67	0	433	15	1			0	17	307	0
6:30:00 PM	17	74	0	395	12	0			0	19	290	0
6:45:00 PM	8	56	0	412	9	0			0	12	296	0
	<b>730</b>	<b>3891</b>	<b>9</b>	<b>18794</b>	<b>761</b>	<b>9</b>			<b>0</b>	<b>753</b>	<b>15543</b>	<b>12</b>

Start Date: 5/11/2021

Start Time: 6:00:00 AM

Site Code: MONTROSE RD @ TOWER OAKS BLVD TMC

UTURNS

Start Time	TOWER OAKS BLVD			MONTROSE RD			MONTROSE RD				
	U-TURNS	From North		U-TURNS	From East		From South		U-TURNS	From West	
6:00:00 AM	0			0					0		
6:15:00 AM	0			0					0		
6:30:00 AM	0			0					0		
6:45:00 AM	0			0					0		
7:00:00 AM	0			0					0		
7:15:00 AM	0			0					0		
7:30:00 AM	0			0					0		
7:45:00 AM	0			0					0		
8:00:00 AM	0			0					1		
8:15:00 AM	0			0					1		
8:30:00 AM	0			0					0		
8:45:00 AM	0			0					1		
9:00:00 AM	0			0					1		
9:15:00 AM	0			0					0		
9:30:00 AM	0			0					1		
9:45:00 AM	0			0					2		
10:00:00 AM	0			0					1		
10:15:00 AM	0			0					0		
10:30:00 AM	0			0					0		
10:45:00 AM	0			0					0		
11:00:00 AM	0			0					4		
11:15:00 AM	0			0					1		
11:30:00 AM	0			0					1		
11:45:00 AM	0			0					2		
12:00:00 PM	0			0					2		
12:15:00 PM	0			0					4		
12:30:00 PM	0			0					3		
12:45:00 PM	0			0					0		
1:00:00 PM	0			0					4		
1:15:00 PM	0			0					0		
1:30:00 PM	0			0					0		
1:45:00 PM	0			0					1		
2:00:00 PM	0			0					2		
2:15:00 PM	0			0					3		
2:30:00 PM	0			0					3		
2:45:00 PM	0			0					1		
3:00:00 PM	0			0					2		
3:15:00 PM	0			0					1		
3:30:00 PM	0			0					0		
3:45:00 PM	0			0					2		
4:00:00 PM	0			0					1		
4:15:00 PM	0			0					1		
4:30:00 PM	0			0					1		
4:45:00 PM	0			0					1		
5:00:00 PM	0			0					1		
5:15:00 PM	0			0					1		
5:30:00 PM	0			0					1		
5:45:00 PM	0			0					2		
6:00:00 PM	0			0					3		
6:15:00 PM	0			0					3		
6:30:00 PM	0			0					0		
6:45:00 PM	0			0					1		
	0			0					60		

Start Date: 5/11/2021

Start Time: 6:00:00 AM

Site Code: MONTROSE RD @ TOWER OAKS BLVD TMC

BIKES

Start Time	TOWER OAKS BLVD			MONTROSE RD			MONTROSE RD		
	From North			From East			From West		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
6:00:00 AM	0	0	0	0	0	0	0	0	0
6:15:00 AM	0	0	0	0	0	0	0	0	0
6:30:00 AM	0	0	0	0	0	0	0	0	0
6:45:00 AM	0	0	0	0	0	0	0	0	0
7:00:00 AM	0	0	0	0	0	0	0	0	0
7:15:00 AM	1	0	0	0	0	0	0	0	0
7:30:00 AM	0	0	0	0	0	0	0	0	0
7:45:00 AM	0	0	0	0	0	0	0	0	0
8:00:00 AM	0	0	0	0	0	0	0	0	0
8:15:00 AM	0	0	0	0	0	0	0	0	0
8:30:00 AM	0	0	0	0	0	0	0	0	0
8:45:00 AM	0	0	0	0	0	0	0	0	0
9:00:00 AM	0	0	0	0	0	0	0	0	0
9:15:00 AM	0	0	0	0	0	0	0	0	0
9:30:00 AM	0	0	0	0	0	0	0	0	0
9:45:00 AM	0	0	0	0	0	0	0	0	0
10:00:00 AM	0	0	0	0	0	0	0	0	0
10:15:00 AM	0	0	0	0	0	0	0	0	0
10:30:00 AM	0	0	0	0	0	0	0	0	0
10:45:00 AM	0	0	0	0	0	0	0	0	0
11:00:00 AM	0	0	0	0	0	0	0	0	0
11:15:00 AM	0	0	0	0	0	0	0	0	0
11:30:00 AM	0	0	0	0	0	0	0	0	0
11:45:00 AM	0	0	0	0	0	0	0	0	0
12:00:00 PM	0	0	0	0	0	0	0	0	0
12:15:00 PM	0	0	0	0	0	0	0	0	0
12:30:00 PM	0	0	0	0	0	0	0	0	0
12:45:00 PM	0	0	0	0	0	0	0	0	0
1:00:00 PM	0	0	0	0	0	0	0	0	0
1:15:00 PM	0	0	0	1	0	0	0	0	0
1:30:00 PM	0	0	0	0	0	0	0	0	0
1:45:00 PM	0	0	0	0	0	0	0	0	0
2:00:00 PM	0	0	0	0	0	0	0	0	0
2:15:00 PM	1	0	0	0	0	0	0	0	0
2:30:00 PM	0	0	0	0	0	0	0	0	0
2:45:00 PM	0	0	0	0	0	0	0	0	0
3:00:00 PM	0	0	0	0	0	0	0	0	0
3:15:00 PM	1	0	0	0	0	0	0	0	0
3:30:00 PM	0	0	0	0	0	0	0	0	0
3:45:00 PM	0	0	0	0	0	0	0	0	0
4:00:00 PM	0	0	0	0	0	0	0	0	0
4:15:00 PM	0	0	0	0	0	0	0	0	0
4:30:00 PM	0	0	0	0	0	0	0	0	0
4:45:00 PM	0	0	0	0	0	0	0	0	0
5:00:00 PM	0	0	0	0	0	0	0	0	0
5:15:00 PM	0	0	0	0	0	0	0	0	0
5:30:00 PM	0	0	0	0	0	0	0	0	0
5:45:00 PM	0	0	0	0	0	0	0	0	0
6:00:00 PM	0	0	0	0	0	0	0	0	0
6:15:00 PM	1	0	0	0	0	0	0	0	0
6:30:00 PM	0	0	0	0	0	0	0	0	0
6:45:00 PM	0	0	0	0	0	0	0	0	0
	4	0	0	1	0	0	0	0	0



Table IA  
Montrose Road at Tower Oaks Blvd  
Traffic Count Comparison  
AM Peak Hour

Approach/ Movement/ Link	January 2018		May 2021		Difference	
	Count	Percent	Count	Percent	Count	Percent
<b>Approach/ Movement</b>						
SBR	665		387		(278)	-42%
SBL	217		66		(151)	-70%
Subtotal	882	16%	453	13%	(429)	-49%
WBR	122		71		(51)	-42%
WBT	1,943		1,490		(453)	-23%
Subtotal	2,065	38%	1,561	43%	(504)	-24%
EBT	2,472		1,525		(947)	-38%
EBL	71		79		8	11%
Subtotal	2,543	46%	1,604	44%	(939)	-37%
Total	5,490	100%	3,618	100%	(1,872)	-34%
<b>Link</b>						
North						
NB	193	18%	150	25%	(43)	-22%
SB	882	82%	453	75%	(429)	-49%
Subtotal	1,075	100%	603	100%	(472)	-44%
East						
EB	2,689	57%	1,591	50%	(1,098)	-41%
WB	2,065	43%	1,561	50%	(504)	-24%
Subtotal	4,754	100%	3,152	100%	(1,602)	-34%
West						
EB	2,543	49%	1,604	46%	(939)	-37%
WB	2,608	51%	1,877	54%	(731)	-28%
Subtotal	5,151	100%	3,481	100%	(1,670)	-32%
Total	10,980		7,236		(3,744)	-34%

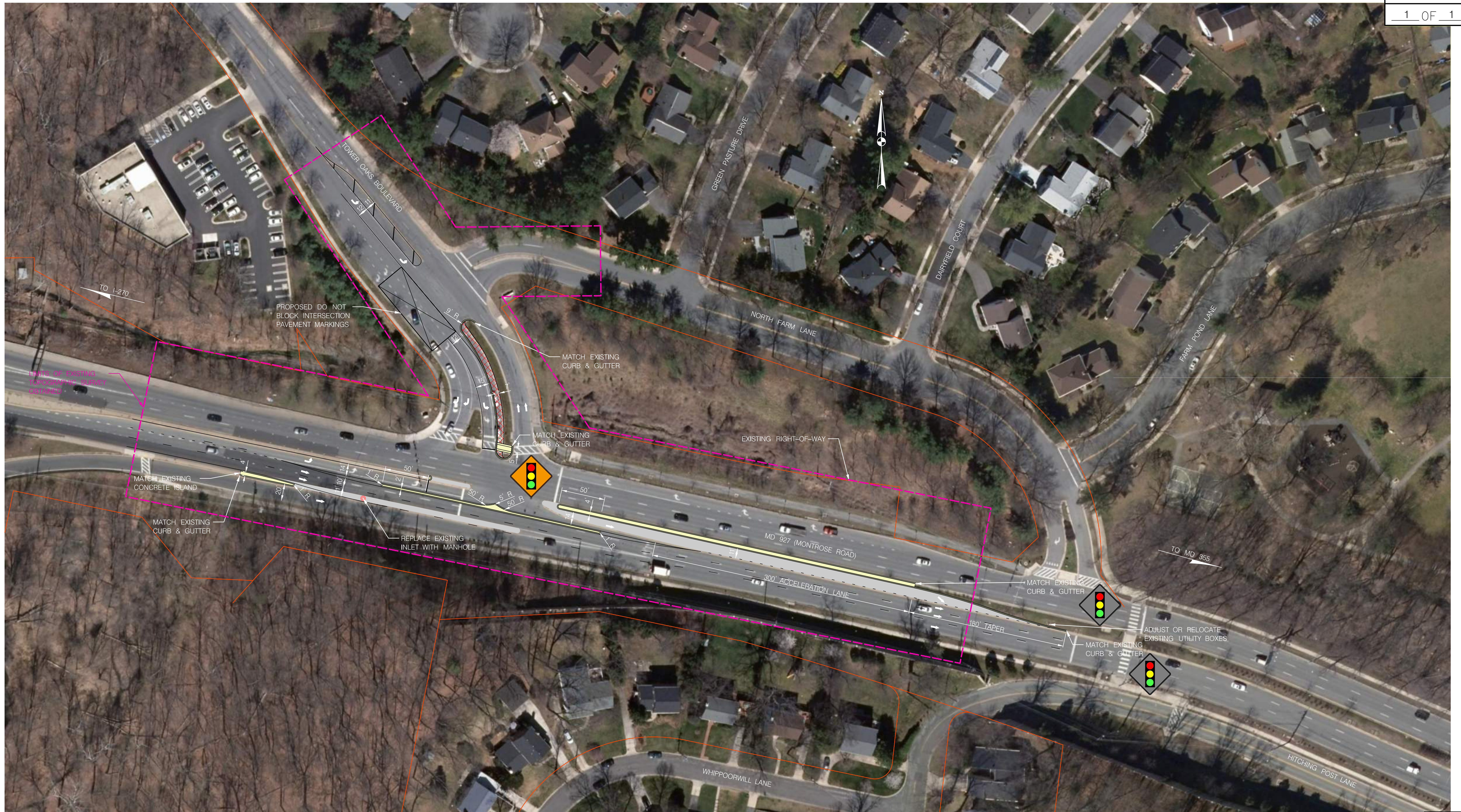
Table IB  
Montrose Road at Tower Oaks Blvd  
Traffic Count Comparison  
PM Peak Hour

Approach/ Movement/ Link	January 2018		May 2021		Difference	
	Count	Percent	Count	Percent	Count	Percent
<b>Approach/ Movement</b>						
SBR	427		289		(138)	-32%
SBL	129		75		(54)	-42%
Subtotal	556	10%	364	9%	(192)	-35%
WBR	136		70		(66)	-49%
WBT	2,806		2,141		(665)	-24%
Subtotal	2,942	54%	2,211	54%	(731)	-25%
EBT	1,841		1,431		(410)	-22%
EBL	89		64		(25)	-28%
Subtotal	1,930	36%	1,495	37%	(435)	-23%
Total	5,428	100%	4,070	100%	(1,358)	-25%
<b>Link</b>						
North						
NB	225	29%	134	27%	(91)	-40%
SB	556	71%	364	73%	(192)	-35%
Subtotal	781	100%	498	100%	(283)	-36%
East						
EB	1,970	40%	1,506	41%	(464)	-24%
WB	2,942	60%	2,211	59%	(731)	-25%
Subtotal	4,912	100%	3,717	100%	(1,195)	-24%
West						
EB	1,930	37%	1,495	38%	(435)	-23%
WB	3,233	63%	2,430	62%	(803)	-25%
Subtotal	5,163	100%	3,925	100%	(1,238)	-24%
Total	10,856		8,140		(2,716)	-25%

ATTACHMENT

**B**

Concept Plan of Recommended Improvement



ROADWAY LEGEND	
	PAVEMENT REMOVAL
	FULL DEPTH ASPHALT PAVEMENT
	CONCRETE SIDEWALK/ CURB & GUTTER/ MEDIAN

"I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND."  
 LICENSE NO. 21350  
 EXPIRATION DATE SEPTEMBER 20, 2022

NO.	REVISION	BY	DATE

Designed By JNS Drawn By JNS Checked By SRH

DEPARTMENT OF TRANSPORTATION  
 DIVISION OF TRAFFIC ENGINEERING & OPERATIONS  
 MONTGOMERY COUNTY, MARYLAND

CONCEPT PLAN  
 OPTION 1  
 MD 927 (MONTROSE ROAD)  
 AT TOWER OAKS BOULEVARD  
 INTERSECTION IMPROVEMENTS  
 SCALE: 1" = 50'

**CONCEPT**

**STV** 100 Years  
 7125 Ambassador Road, Suite 200  
 Baltimore, Maryland 21244  
 www.stvinc.com

BY: Smith, JN

ATTACHMENT

C

CLV Calculation Sheets

**Critical Lane Volume Methodology**  
**Turning Movement Summary and Level of Service**

Prepared by: **STV Incorporated**

Count Date: 1/11/2018

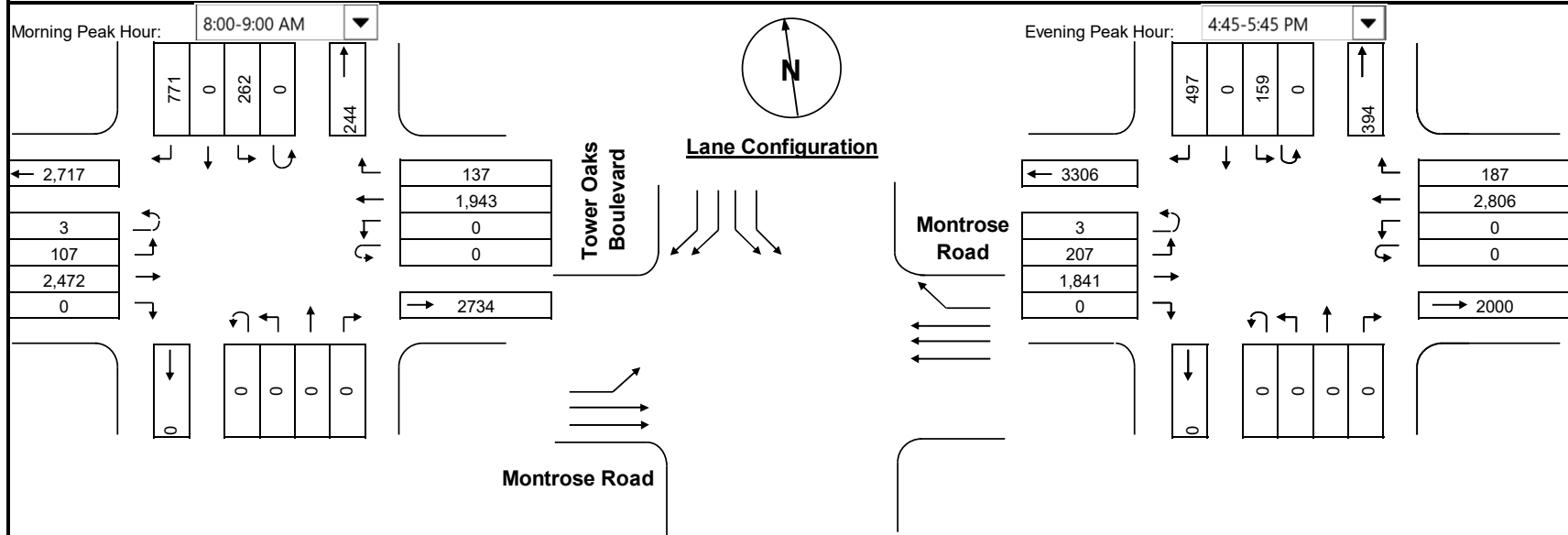
Location: Tower Oaks Boulevard at Montrose Road

Conditions: Existing

Design Year:

Computed by: BMW

Date 6/24/2021



Num. of Lanes	Lane Use Factor	Service Level	Critical Lane Vol	Opposing Volume (VPH)	PCE
1	1.00	A	<= 1000	<= 199	1.1
2	0.55	B	<= 1150	<= 599	2.0
3	0.40	C	<= 1300	<= 799	3.0
4	0.30	D	<= 1450	<= 999	4.0
Dbl-Lt	0.60	E	<= 1600	> 1000	5.0
		F	> 1600		

**Phasing**


**RTOR/Overlap**

- Northbound
- Southbound
- Eastbound
- Westbound

**Split Phasing**

- East/West
- North/South
- None

**Inx. Control**

- Signal
- Stop

Phase	Movement	Volume 1	Lane Use Factor - 2	Lane volume 1 X 2	Opposing Movement	Critical In. volume	*	Phase	Movement	Volume 1	Lane Use Factor - 2	Lane volume 1 X 2	Opposing Movement	Critical In. Volume	*
	NB	0	0.00	0	0	0			NB	0	0.00	0	0	0	
	SB	661	0.55	364	0	364	*		SB	287	0.55	158	0	158	*
	EB	2472	0.55	1360	0	1360	*		EB	1841	0.55	1013	0	1013	
	WB	1943	0.40	777	110	887			WB	2806	0.40	1122	210	1332	*

Remarks: \* Critical volume Total **1723** Remarks: \* Critical volume Total **1490**

**Critical Lane Volume Methodology**  
**Turning Movement Summary and Level of Service**

Prepared by: **STV Incorporated**

Count Date: 1/11/2018

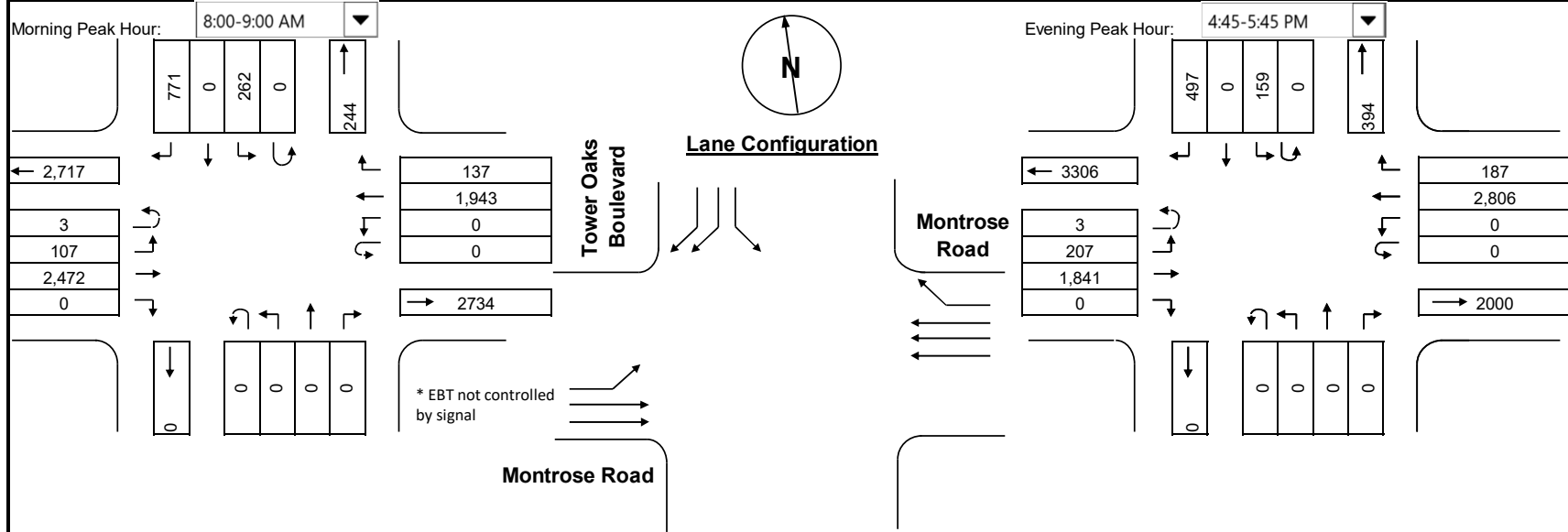
Location: Tower Oaks Boulevard at Montrose Road

Conditions: Proposed

Design Year: 2042

Computed by: BMW

Date 6/24/2021



Num. of Lanes	Lane Use Factor	Service Level	Critical Lane Vol	Opposing Volume (VPH)	PCE
1	1.00	A	<= 1000	<= 199	1.1
2	0.55	B	<= 1150	<= 599	2.0
3	0.40	C	<= 1300	<= 799	3.0
4	0.30	D	<= 1450	<= 999	4.0
Dbl-Lt	0.60	E	<= 1600	> 1000	5.0
		F	> 1600		

**Phasing**


**RTOR/Overlap**

Northbound

Southbound

Eastbound

Westbound

**Split Phasing**

East/West

North/South

None

**Inx. Control**

Signal

Stop

Phase	Movement	Volume 1	Lane Use Factor - 2	Lane volume 1 X 2	Opposing Movement	Critical In. volume	*	Phase	Movement	Volume 1	Lane Use Factor - 2	Lane volume 1 X 2	Opposing Movement	Critical In. Volume	*
	NB	0	0.00	0	0	0			NB	0	0.00	0	0	0	
	SB	661	0.55	364	0	364	*		SB	159	1.00	159	0	159	*
	EB	0	0.00	0	0	0			EB	0	0.00	0	0	0	
	WB	1943	0.40	777	110	887	*		WB	2806	0.40	1122	210	1332	*

Remarks: \* Critical volume Total **1251**      Remarks: \* Critical volume Total **1491**

**Critical Lane Volume Methodology  
Turning Movement Summary and Level of Service**

Prepared by: **STV Incorporated**

Count Date: 1/11/2018

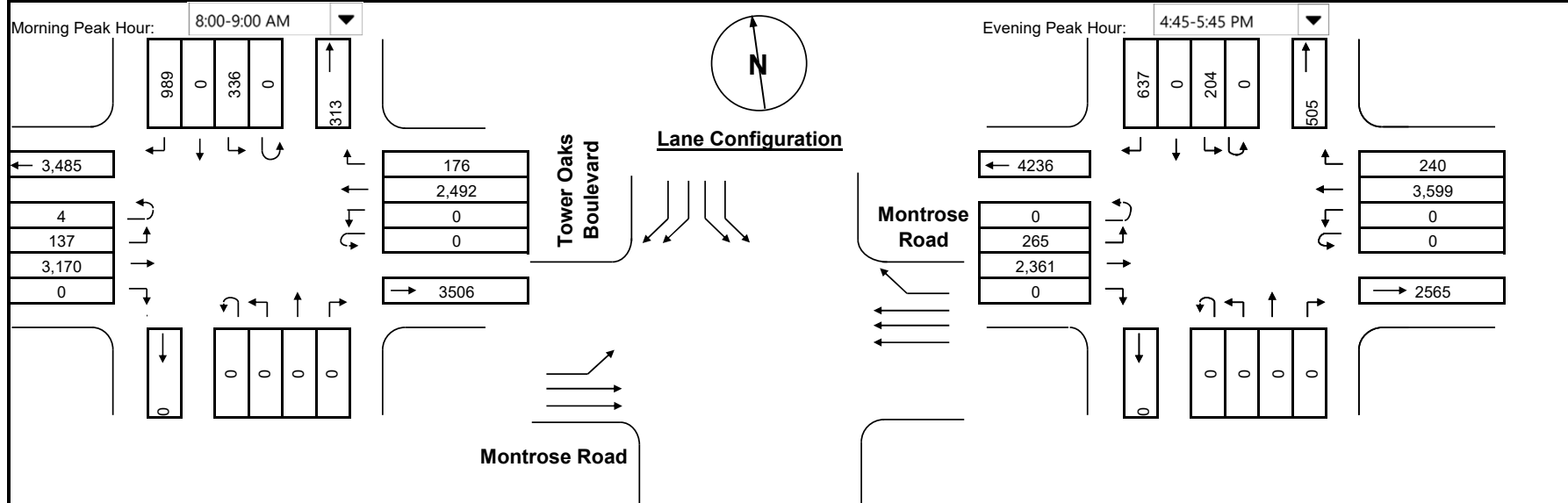
Location: Tower Oaks Boulevard at Montrose Road

Conditions: Future

Design Year: 2046

Computed by: BMW

Date 6/24/2021



Phasing			

- RTOR/Overlap
- Northbound
  - Southbound
  - Eastbound
  - Westbound

- Split Phasing
- East/West
  - North/South
  - None

- Inx. Control
- Signal
  - Stop

Num. of Lanes	Lane Use Factor	Service Level	Critical Lane Vol	Opposing Volume (VPH)	PCE
1	1.00	A	<= 1000	<= 199	1.1
2	0.55	B	<= 1150	<= 599	2.0
3	0.40	C	<= 1300	<= 799	3.0
4	0.30	D	<= 1450	<= 999	4.0
DbI-Lt	0.60	E	<= 1600	> 1000	5.0
		F	> 1600		

Phase	Movement	Volume 1	Lane Use Factor - 2	Lane volume 1 X 2	Opposing Movement	Critical In. volume	*	Phase	Movement	Volume 1	Lane Use Factor - 2	Lane volume 1 X 2	Opposing Movement	Critical In. Volume	*		
	NB	0	0.00	0	0	0			NB	0	0.00	0	0	0			
	SB	848	0.55	466	0	466	*		SB	372	0.55	205	0	205	*		
	EB	3170	0.55	1744	0	1744	*		EB	2361	0.55	1299	0	1299			
	WB	2492	0.40	997	141	1138			WB	3599	0.40	1440	265	1705	*		
Remarks:		* Critical volume				Total	<b>2210</b>		Remarks:		* Critical volume				Total	<b>1909</b>	

**Critical Lane Volume Methodology**  
**Turning Movement Summary and Level of Service**

Prepared by: **STV Incorporated**

Count Date: 1/11/2018

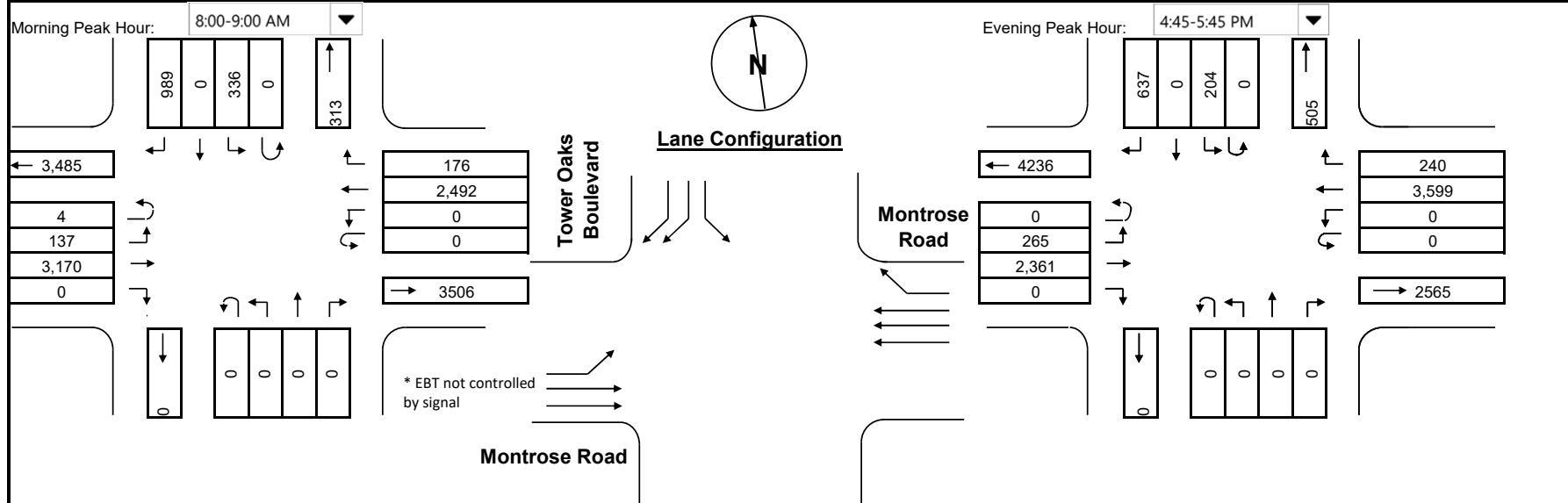
Location: Tower Oaks Boulevard at Montrose Road

Conditions: Proposed

Design Year: 2042

Computed by: BMW

Date 6/24/2021



Num. of Lanes	Lane Use Factor	Service Level	Critical Lane Vol	Opposing Volume (VPH)	PCE
1	1.00	A	<= 1000	<= 199	1.1
2	0.55	B	<= 1150	<= 599	2.0
3	0.40	C	<= 1300	<= 799	3.0
4	0.30	D	<= 1450	<= 999	4.0
DbI-Lt	0.60	E	<= 1600	> 1000	5.0
		F	> 1600		

**Phasing**


RTOR/Overlap  
 Northbound  
 Southbound  
 Eastbound  
 Westbound

Split Phasing  
 East/West  
 North/South  
 None

Inx. Control  
 Signal  
 Stop

Phase	Movement	Volume 1	Lane Use Factor - 2	Lane volume 1 X 2	Opposing Movement	Critical In. volume	*	Phase	Movement	Volume 1	Lane Use Factor - 2	Lane volume 1 X 2	Opposing Movement	Critical In. Volume	*
	NB	0	0.00	0	0	0			NB	0	0.00	0	0	0	
	SB	848	0.55	466	0	466	*		SB	372	0.55	205	0	205	*
	EB	0	0.00	0	0	0			EB	0	0.00	0	0	0	
	WB	2492	0.40	997	141	1138	*		WB	3599	0.40	1440	265	1705	*

Remarks: \* Critical volume Total **1604**      Remarks: \* Critical volume Total **1909**



ATTACHMENT

D

Speed Data

# Connor Speed Report

## Dataset

Site Name MONTROSE @ I-270 EB  
 Separation Type Headway  
 Direction East

Saturday, May 15, 2021

Time [--]	Vbin 6 12	Vbin 12 19	Vbin 19 25	Vbin 25 31	Vbin 31 37	Vbin 37 43	Vbin 43 50	Vbin 50 56	Vbin 56 62	Vbin 62 68	Vbin 68 75	Vbin 75 81	Vbin 81 87	Vbin 87 93	Vbin 93 99	Vpp 85	]PSL 40
0000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0
0100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0
0200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0
0300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0
0400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0
0500	0	0	0	0	1	7	21	17	10	2	0	0	0	0	0	57.4	56
0600	0	0	0	0	4	30	83	61	15	2	0	0	0	0	0	54	185
0700	0	0	0	0	13	61	178	135	36	5	2	0	0	0	0	54.3	394
0800	0	0	0	3	20	111	281	187	48	10	2	0	0	0	0	53.9	604
0900	0	0	4	24	111	279	364	182	35	6	1	0	0	0	0	51.4	776
1000	0	0	0	12	90	330	457	160	29	5	1	0	0	0	0	50.4	885
1100	0	1	0	47	125	308	457	189	29	4	0	0	0	0	0	50.6	875
1200	0	0	5	49	124	299	433	177	32	6	3	0	0	0	0	50.7	858
1300	0	0	4	15	81	327	477	197	32	4	0	0	0	0	0	51	934
1400	0	0	2	21	66	254	470	229	42	6	1	1	0	0	0	51.8	926
1500	0	0	5	21	93	300	474	168	32	5	2	1	0	0	0	50.6	909
1600	0	0	4	28	134	318	428	161	21	4	0	0	0	0	0	50.2	813
1700	0	3	3	21	112	303	413	180	40	10	0	1	0	0	0	51.1	845
1800	0	0	5	12	61	216	403	171	31	8	0	1	0	0	0	51.1	763
1900	0	1	4	10	49	194	310	164	28	3	0	0	0	0	0	51.9	636
2000	0	0	0	4	41	194	264	98	19	4	2	0	0	0	0	51	531
2100	0	0	1	6	28	143	176	70	23	4	2	0	0	0	0	51.8	377
2200	0	0	0	0	12	99	159	49	14	6	2	0	0	0	0	51.8	297
2300	0	0	0	2	6	62	94	32	11	4	0	0	0	0	0	51.7	185
<b>00-00</b>	<b>0</b>	<b>5</b>	<b>37</b>	<b>275</b>	<b>1171</b>	<b>3835</b>	<b>5942</b>	<b>2627</b>	<b>527</b>	<b>98</b>	<b>18</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>51.3</b>	<b>11849</b>

Vehicles = 14539

Posted speed limit = 40 mph, Exceeding = 11849 (81.50%), Mean Exceeding = 47.43 mph

Maximum = 75.4 mph, Minimum = 14.0 mph, Mean = 45.3 mph

85% Speed = 51.34 mph, 95% Speed = 55.48 mph, Median = 45.41 mph

12 mph Pace = 39 - 51, Number in Pace = 9982 (68.66%)

Variance = 42.12, Standard Deviation = 6.49 mph

Sunday, May 16, 2021

Time [--]	Vbin 6 12	Vbin 12 19	Vbin 19 25	Vbin 25 31	Vbin 31 37	Vbin 37 43	Vbin 43 50	Vbin 50 56	Vbin 56 62	Vbin 62 68	Vbin 68 75	Vbin 75 81	Vbin 81 87	Vbin 87 93	Vbin 93 99	Vpp 85	]PSL 40
0000	0	0	0	0	5	37	55	30	4	1	1	0	0	0	1	53.3	116
0100	0	0	0	0	1	21	33	19	5	0	0	0	0	0	0	53.2	72
0200	0	0	0	0	2	12	26	8	3	0	2	0	0	0	0	54.3	48
0300	0	0	0	0	1	6	21	8	0	2	0	0	0	0	0	51.1	37
0400	0	0	0	0	1	7	17	14	3	2	0	1	0	0	0	54.9	42
0500	0	0	0	0	1	7	25	20	10	3	0	0	0	0	0	56.8	65
0600	0	0	0	0	1	19	64	43	14	4	0	0	0	0	0	55.4	140
0700	0	0	0	0	3	29	92	76	18	8	1	0	0	0	0	54.9	215
0800	0	0	0	0	10	59	169	133	32	6	1	0	0	0	0	54.8	384
0900	0	0	0	5	13	114	266	172	37	8	2	0	0	0	0	53.5	570
1000	0	0	1	7	46	180	368	181	35	9	1	0	1	0	0	52	719
1100	0	0	3	27	67	219	445	211	52	4	0	0	0	0	0	52.2	864
1200	1	0	6	29	86	238	462	200	33	3	0	0	0	0	0	51	867
1300	0	0	3	13	68	222	466	204	28	0	1	0	0	0	0	51.3	850
1400	0	5	13	59	147	399	354	93	10	2	1	0	0	0	0	48.3	716
1500	0	0	4	38	141	342	387	109	17	1	1	0	0	0	0	48.9	741
1600	0	1	10	15	99	299	362	117	21	2	0	0	0	0	0	49.8	696
1700	0	1	3	13	59	240	315	104	15	3	0	0	0	0	0	50	603
1800	0	0	0	2	26	163	297	145	23	5	0	0	0	0	0	51.7	584
1900	0	0	0	2	17	112	301	109	25	4	3	0	0	0	0	52.1	526
2000	0	0	0	2	14	94	183	82	13	3	0	0	0	0	0	51.9	351
2100	0	0	0	1	17	92	134	70	12	2	1	0	0	0	0	52.4	283
2200	0	0	0	1	7	43	87	64	12	5	0	0	0	0	0	54	209
2300	0	0	0	1	4	35	60	40	5	2	0	0	0	0	0	52.8	132
<b>00-00</b>	<b>1</b>	<b>7</b>	<b>43</b>	<b>215</b>	<b>836</b>	<b>2989</b>	<b>4989</b>	<b>2252</b>	<b>427</b>	<b>79</b>	<b>15</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>51.6</b>	<b>9830</b>

Vehicles = 11856

Posted speed limit = 40 mph, Exceeding = 9830 (82.91%), Mean Exceeding = 47.53 mph  
 Maximum = 93.9 mph, Minimum = 6.8 mph, Mean = 45.5 mph  
 85% Speed = 51.56 mph, 95% Speed = 55.59 mph, Median = 45.63 mph  
 12 mph Pace = 40 - 52, Number in Pace = 8233 (69.44%)  
 Variance = 42.05, Standard Deviation = 6.48 mph

**Monday, May 17, 2021**

Time [--]	Vbin 6 12	Vbin 12 19	Vbin 19 25	Vbin 25 31	Vbin 31 37	Vbin 37 43	Vbin 43 50	Vbin 50 56	Vbin 56 62	Vbin 62 68	Vbin 68 75	Vbin 75 81	Vbin 81 87	Vbin 87 93	Vbin 93 99	Vpp 85	JPSL 40
0000	0	0	0	1	2	8	13	13	5	3	1	1	0	0	0	59.4	40
0100	0	1	0	0	1	11	13	5	3	1	0	0	0	0	0	54.9	30
0200	0	0	0	0	0	6	11	3	1	1	0	0	0	0	0	53.6	19
0300	0	0	0	0	0	11	7	8	7	1	0	0	0	0	0	58.4	32
0400	0	0	0	0	2	14	45	30	4	1	0	0	1	0	0	53.4	90
0500	0	0	0	0	5	25	89	66	25	4	2	2	0	0	0	56.1	206
0600	0	0	0	0	9	76	168	139	40	7	1	0	0	0	0	54.8	422
0700	0	0	3	14	95	233	380	204	49	9	0	0	0	0	0	52.3	796
0800	0	0	4	20	116	323	537	210	40	6	1	0	0	0	0	50.8	1019
0900	0	0	2	26	115	282	418	163	30	6	0	0	0	0	0	50.7	811
1000	0	0	4	19	97	265	320	139	27	3	0	0	0	0	0	50.8	658
1100	0	1	3	31	78	297	388	116	23	3	1	0	0	0	0	49.9	728
1200	5	6	24	54	166	313	318	102	19	1	0	0	0	0	0	49	644
1300	0	2	8	27	93	229	397	149	28	4	0	0	0	0	0	50.8	737
1400	0	0	0	15	89	279	457	196	29	6	1	0	0	0	0	51.1	877
1500	0	1	4	29	86	308	430	198	37	4	1	0	0	0	0	51.3	879
1600	0	0	8	24	97	321	442	183	24	7	4	0	0	0	0	50.7	873
1700	0	0	2	17	98	332	506	214	33	8	1	0	1	0	0	50.9	988
1800	0	1	1	7	47	255	432	190	39	10	2	0	1	0	0	51.9	866
1900	0	0	1	4	32	157	327	118	37	10	0	0	0	0	0	51.9	607
2000	0	0	0	0	18	99	151	76	17	5	5	1	0	0	0	52.5	324
2100	0	0	0	1	11	66	113	50	9	0	2	0	0	0	0	51	215
2200	0	0	0	0	2	47	58	38	2	2	2	0	0	0	0	52.8	141
2300	0	0	0	0	6	18	33	12	6	2	0	0	0	0	0	54	64
<b>00-00</b>	<b>5</b>	<b>12</b>	<b>64</b>	<b>289</b>	<b>1265</b>	<b>3975</b>	<b>6053</b>	<b>2622</b>	<b>534</b>	<b>104</b>	<b>24</b>	<b>4</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>51.2</b>	<b>12066</b>

Vehicles = 14954  
 Posted speed limit = 40 mph, Exceeding = 12066 (80.69%), Mean Exceeding = 47.40 mph  
 Maximum = 84.4 mph, Minimum = 6.2 mph, Mean = 45.1 mph  
 85% Speed = 51.23 mph, 95% Speed = 55.59 mph, Median = 45.30 mph  
 12 mph Pace = 39 - 51, Number in Pace = 10220 (68.34%)  
 Variance = 44.67, Standard Deviation = 6.68 mph

**Tuesday, May 18, 2021**

Time [--]	Vbin 6 12	Vbin 12 19	Vbin 19 25	Vbin 25 31	Vbin 31 37	Vbin 37 43	Vbin 43 50	Vbin 50 56	Vbin 56 62	Vbin 62 68	Vbin 68 75	Vbin 75 81	Vbin 81 87	Vbin 87 93	Vbin 93 99	Vpp 85	JPSL 40
0000	0	0	0	0	3	4	13	10	5	0	0	0	0	0	0	56.1	32
0100	0	0	0	0	3	5	6	5	1	1	0	0	0	0	0	55.3	17
0200	0	0	0	0	2	3	7	3	1	0	0	0	0	0	0	52.9	14
0300	0	0	0	0	0	4	9	6	6	1	1	0	0	0	0	60.3	25
0400	0	0	0	0	0	12	28	38	10	2	0	1	0	0	0	55.9	88
0500	0	0	0	3	10	27	112	75	22	6	1	0	0	0	0	54.7	233
0600	0	0	0	1	13	73	175	134	39	8	1	0	0	0	0	54.4	419
0700	0	0	0	21	55	219	382	206	49	7	0	0	0	0	0	52.6	790
0800	0	1	8	77	155	355	465	184	47	8	0	0	0	0	0	50.7	944
0900	0	0	1	19	101	314	441	180	40	7	1	0	0	0	0	50.9	885
1000	0	2	11	20	103	317	350	122	24	5	0	0	0	0	0	50	721
1100	0	3	6	23	109	278	378	148	31	6	2	0	0	0	0	50.8	752
1200	0	0	9	40	134	298	388	112	23	4	0	0	0	0	0	49.3	721
1300	0	0	4	41	122	324	367	109	19	0	1	0	0	0	0	49.1	719
1400	5	12	32	76	189	376	331	102	11	5	0	0	0	0	0	48.4	682
1500	0	0	5	39	168	335	390	133	23	2	0	0	0	0	0	49.5	772
1600	0	0	9	35	120	365	506	181	18	4	0	0	0	0	0	50	935
1700	0	0	1	22	122	334	518	194	31	3	1	0	0	0	0	50.4	982
1800	0	0	0	5	47	255	441	197	38	6	0	0	0	0	0	51.6	858
1900	0	0	0	5	46	210	336	128	31	6	0	0	1	0	0	51.3	650
2000	0	0	0	9	40	173	250	91	19	2	1	0	0	0	1	50.7	474
2100	0	0	0	4	33	131	143	73	11	2	1	0	0	0	0	51.6	320
2200	0	0	0	1	12	62	133	46	10	5	1	1	0	0	0	52.5	241
2300	0	0	0	0	2	34	60	22	5	1	2	0	0	0	0	52.9	112
<b>00-00</b>	<b>5</b>	<b>18</b>	<b>86</b>	<b>441</b>	<b>1589</b>	<b>4508</b>	<b>6229</b>	<b>2499</b>	<b>514</b>	<b>91</b>	<b>13</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>50.8</b>	<b>12386</b>

Vehicles = 15997  
 Posted speed limit = 40 mph, Exceeding = 12386 (77.43%), Mean Exceeding = 47.12 mph  
 Maximum = 98.3 mph, Minimum = 9.6 mph, Mean = 44.4 mph  
 85% Speed = 50.78 mph, 95% Speed = 55.03 mph, Median = 44.74 mph

12 mph Pace = 39 - 51, Number in Pace = 10735 (67.11%)  
 Variance = 46.66, Standard Deviation = 6.83 mph

**Wednesday, May 19, 2021**

Time [--]	Vbin 6 12	Vbin 12 19	Vbin 19 25	Vbin 25 31	Vbin 31 37	Vbin 37 43	Vbin 43 50	Vbin 50 56	Vbin 56 62	Vbin 62 68	Vbin 68 75	Vbin 75 81	Vbin 81 87	Vbin 87 93	Vbin 93 99	Vpp 85	JPSL 40
0000	0	0	0	0	2	12	27	11	5	0	0	0	0	0	0	53.6	52
0100	0	0	0	0	3	4	7	8	3	1	0	0	0	0	0	56.2	23
0200	0	0	0	0	1	10	17	5	2	1	0	0	0	0	0	52.6	32
0300	0	0	0	0	0	5	18	10	2	1	0	0	0	0	0	54.9	36
0400	0	0	0	0	0	19	25	30	16	4	0	0	0	0	0	58.9	89
0500	0	0	0	0	1	29	83	86	23	6	0	0	0	0	0	55.3	220
0600	0	0	0	1	11	64	184	127	42	13	0	0	0	0	0	54.5	414
0700	0	0	1	12	54	156	298	184	63	18	3	0	0	0	0	54	676
0800	2	4	22	63	153	351	516	220	39	10	4	0	0	0	0	50.9	1014
0900	0	0	4	40	122	280	432	192	44	5	1	2	1	0	0	51.4	888
1000	3	5	9	23	118	331	363	149	16	2	0	0	0	0	0	50.1	744
1100	0	0	10	44	99	296	477	163	34	6	0	1	0	0	0	50.4	884
1200	0	0	7	37	124	322	404	155	37	3	0	0	0	0	0	50.7	807
1300	0	2	14	34	109	327	428	155	31	4	1	0	0	0	0	50.1	829
1400	0	0	7	33	145	372	492	173	23	2	2	0	0	0	0	50	950
1500	0	0	2	35	90	278	439	196	38	7	0	0	0	0	0	51.4	878
1600	0	0	7	40	132	427	493	188	31	5	2	0	0	0	0	50.1	1009
1700	0	0	7	19	110	341	570	232	31	3	0	1	0	0	0	50.9	1060
1800	0	1	4	28	104	269	483	198	40	8	2	1	0	0	0	51	913
1900	0	0	0	4	57	184	340	156	46	6	2	0	0	0	0	52.6	667
2000	0	0	0	6	43	178	266	114	17	9	0	0	0	0	0	51.2	535
2100	0	0	0	0	21	126	178	51	13	2	1	1	0	0	0	50.3	325
2200	0	0	1	2	8	69	105	52	18	3	3	1	0	0	0	53.2	233
2300	0	0	0	0	3	31	50	25	11	1	0	0	1	0	0	55.1	108
<b>00-00</b>	<b>5</b>	<b>12</b>	<b>95</b>	<b>421</b>	<b>1510</b>	<b>4481</b>	<b>6695</b>	<b>2880</b>	<b>625</b>	<b>120</b>	<b>21</b>	<b>7</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>51.3</b>	<b>13386</b>

Vehicles = 16874

Posted speed limit = 40 mph, Exceeding = 13386 (79.33%), Mean Exceeding = 47.42 mph

Maximum = 86.6 mph, Minimum = 8.5 mph, Mean = 44.9 mph

85% Speed = 51.34 mph, 95% Speed = 55.59 mph, Median = 45.19 mph

12 mph Pace = 40 - 52, Number in Pace = 11335 (67.17%)

Variance = 47.26, Standard Deviation = 6.87 mph

**Thursday, May 20, 2021**

Time [--]	Vbin 6 12	Vbin 12 19	Vbin 19 25	Vbin 25 31	Vbin 31 37	Vbin 37 43	Vbin 43 50	Vbin 50 56	Vbin 56 62	Vbin 62 68	Vbin 68 75	Vbin 75 81	Vbin 81 87	Vbin 87 93	Vbin 93 99	Vpp 85	JPSL 40
0000	0	0	0	0	2	9	23	16	2	1	2	0	0	0	0	54.2	49
0100	0	0	1	0	1	6	11	8	3	1	0	0	1	0	0	58.3	27
0200	0	0	0	0	0	9	12	2	1	0	0	0	0	0	0	49.1	23
0300	0	0	0	0	1	11	10	14	3	1	0	0	0	0	0	54.1	36
0400	0	0	0	0	1	21	24	31	11	5	0	0	0	0	0	56.6	89
0500	0	0	0	0	3	31	98	66	34	7	1	0	0	0	0	56.6	228
0600	0	0	0	0	8	60	177	148	46	9	1	0	0	0	0	55.2	429
0700	0	0	17	43	100	260	406	202	48	6	0	0	0	0	0	51.8	844
0800	0	0	21	75	133	363	472	207	33	3	0	0	0	0	0	50.7	931
0900	0	2	13	28	117	316	430	173	44	4	1	0	0	0	0	50.9	864
1000	0	0	8	36	93	292	399	165	29	5	0	0	0	0	0	50.8	796
1100	0	2	7	31	115	264	389	171	28	2	0	1	0	0	0	51	767
1200	0	0	12	23	81	275	435	198	31	8	1	0	0	0	0	51.1	860
1300	0	0	3	19	95	279	385	163	28	4	0	1	0	0	0	51	772
1400	0	1	14	64	154	372	459	152	23	5	0	1	0	0	0	49.7	876
1500	0	0	7	48	92	339	472	161	26	9	0	1	0	0	0	50.2	910
1600	0	0	3	51	138	403	512	171	33	2	1	0	0	0	0	49.9	966
1700	0	0	4	20	125	419	572	185	28	4	1	0	0	0	0	50.1	1059
1800	0	0	0	12	93	336	449	142	27	5	0	0	0	0	0	50.1	871
1900	0	2	2	20	77	275	364	126	22	3	0	0	0	0	0	50.4	702
2000	0	0	0	5	70	193	273	88	11	3	0	1	0	0	0	49.9	506
2100	0	0	0	1	34	137	194	53	17	3	0	0	1	0	0	50.2	367
2200	0	0	0	0	5	78	111	67	13	9	2	1	0	0	0	53.5	259
2300	0	0	0	0	7	36	59	36	3	0	0	0	0	0	0	52.5	126
<b>00-00</b>	<b>0</b>	<b>7</b>	<b>112</b>	<b>476</b>	<b>1545</b>	<b>4784</b>	<b>6736</b>	<b>2745</b>	<b>544</b>	<b>99</b>	<b>10</b>	<b>6</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>51</b>	<b>13357</b>

Vehicles = 17066

Posted speed limit = 40 mph, Exceeding = 13357 (78.27%), Mean Exceeding = 47.16 mph

Maximum = 85.7 mph, Minimum = 13.0 mph, Mean = 44.6 mph

85% Speed = 51.00 mph, 95% Speed = 55.03 mph, Median = 44.96 mph

12 mph Pace = 40 - 52, Number in Pace = 11475 (67.24%)

Variance = 45.76, Standard Deviation = 6.76 mph

Friday, May 21, 2021

Time [--]	Vbin 6 12	Vbin 12 19	Vbin 19 25	Vbin 25 31	Vbin 31 37	Vbin 37 43	Vbin 43 50	Vbin 50 56	Vbin 56 62	Vbin 62 68	Vbin 68 75	Vbin 75 81	Vbin 81 87	Vbin 87 93	Vbin 93 99	Vpp 85	JPSL 40
0000	0	0	0	0	2	16	36	18	4	0	0	0	0	0	0	52.8	69
0100	0	0	0	0	1	4	11	5	3	1	1	0	0	0	0	57.3	24
0200	0	0	0	0	0	7	16	5	2	0	0	0	0	0	0	51.2	27
0300	0	0	0	0	0	9	13	11	2	0	0	0	0	0	0	53.9	32
0400	0	0	0	0	1	11	33	41	10	1	0	1	0	0	0	55.4	97
0500	0	0	0	0	2	32	102	64	36	7	3	0	0	0	0	57.2	235
0600	0	0	1	5	21	83	178	144	36	5	1	0	0	0	0	53.7	426
0700	0	0	3	20	73	237	408	232	47	9	1	0	0	0	0	52.1	851
0800	0	4	20	46	120	377	483	202	35	3	1	0	0	0	0	50.7	960
0900	0	0	5	19	89	272	496	187	51	4	3	0	0	0	0	51.4	934
1000	0	0	8	40	100	311	439	158	26	5	0	0	0	0	0	50.2	827
1100	0	0	21	66	140	345	402	171	41	11	0	0	0	0	0	50.8	843
1200	0	4	20	34	135	356	465	177	35	7	0	0	0	0	0	50.3	907
1300	3	2	11	51	132	290	424	185	35	5	1	1	0	0	0	50.8	843
1400	0	0	7	29	154	344	505	150	27	3	0	1	0	0	0	49.7	898
1500	0	0	13	53	165	392	441	175	33	3	0	0	0	0	0	50.2	903
1600	0	0	2	34	124	438	555	179	25	8	2	0	0	0	0	50	1083
1700	0	0	5	26	105	405	578	207	36	5	0	1	0	0	0	50.3	1119
1800	0	0	0	13	95	354	485	197	36	6	0	1	0	0	0	50.8	962
1900	0	0	0	10	71	257	374	151	37	10	1	0	0	0	0	51.5	759
2000	0	0	0	7	32	177	299	113	25	5	0	2	0	0	0	51.7	558
2100	0	0	1	7	40	178	212	66	14	4	1	0	0	0	0	50.1	417
2200	0	0	0	4	10	104	132	63	19	5	1	0	0	0	0	52.5	291
2300	0	0	0	0	11	55	103	49	12	5	0	0	0	0	0	52.7	217
<b>00-00</b>	<b>3</b>	<b>10</b>	<b>117</b>	<b>464</b>	<b>1623</b>	<b>5054</b>	<b>7190</b>	<b>2950</b>	<b>627</b>	<b>112</b>	<b>16</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>51</b>	<b>14282</b>

Vehicles = 18173  
 Posted speed limit = 40 mph, Exceeding = 14282 (78.59%), Mean Exceeding = 47.23 mph  
 Maximum = 80.1 mph, Minimum = 9.6 mph, Mean = 44.7 mph  
 85% Speed = 51.00 mph, 95% Speed = 55.14 mph, Median = 44.96 mph  
 12 mph Pace = 39 - 51, Number in Pace = 12253 (67.42%)  
 Variance = 46.10, Standard Deviation = 6.79 mph

Saturday, May 22, 2021

Time [--]	Vbin 6 12	Vbin 12 19	Vbin 19 25	Vbin 25 31	Vbin 31 37	Vbin 37 43	Vbin 43 50	Vbin 50 56	Vbin 56 62	Vbin 62 68	Vbin 68 75	Vbin 75 81	Vbin 81 87	Vbin 87 93	Vbin 93 99	Vpp 85	JPSL 40
0000	0	0	0	0	5	34	54	26	6	1	0	0	1	0	0	51.3	115
0100	0	0	0	0	1	11	27	13	3	1	0	1	0	0	0	54.2	52
0200	0	0	0	0	3	9	11	9	2	1	0	0	0	0	0	52.9	30
0300	0	0	0	0	1	7	18	11	3	0	0	0	0	0	0	55.3	39
0400	0	0	0	0	0	7	15	16	4	1	0	0	0	0	0	55	40
<b>00-00</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>68</b>	<b>125</b>	<b>75</b>	<b>18</b>	<b>4</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>53.3</b>	<b>276</b>

Vehicles = 302  
 Posted speed limit = 40 mph, Exceeding = 276 (91.39%), Mean Exceeding = 48.35 mph  
 Maximum = 83.6 mph, Minimum = 34.3 mph, Mean = 47.4 mph  
 85% Speed = 53.26 mph, 95% Speed = 57.55 mph, Median = 46.81 mph  
 12 mph Pace = 41 - 53, Number in Pace = 220 (72.85%)  
 Variance = 40.54, Standard Deviation = 6.37 mph

Grand Total

Time [--]	Vbin 6 12	Vbin 12 19	Vbin 19 25	Vbin 25 31	Vbin 31 37	Vbin 37 43	Vbin 43 50	Vbin 50 56	Vbin 56 62	Vbin 62 68	Vbin 68 75	Vbin 75 81	Vbin 81 87	Vbin 87 93	Vbin 93 99	Vpp 85	JPSL 40
--	19	71	554	2581	9549	29694	43959	18650	3816	707	117	32	10	0	2	51.1	87432

Vehicles = 109761  
 Posted speed limit = 40 mph, Exceeding = 87432 (79.66%), Mean Exceeding = 47.32 mph  
 Maximum = 98.3 mph, Minimum = 6.2 mph, Mean = 44.9 mph  
 85% Speed = 51.11 mph, 95% Speed = 55.36 mph, Median = 45.19 mph  
 12 mph Pace = 39 - 51, Number in Pace = 74353 (67.74%)  
 Variance = 45.27, Standard Deviation = 6.73 mph

# Connor Speed Report

## Dataset

Site Name Montrose Road EB Lane1  
 Direction EAST

Wednesday, June 9, 2021

Time [--]	Vbin 6 12	Vbin 12 19	Vbin 19 25	Vbin 25 31	Vbin 31 37	Vbin 37 43	Vbin 43 50	Vbin 50 56	Vbin 56 62	Vbin 62 68	Vbin 68 75	Vbin 75 81	Vbin 81 87	Vbin 87 93	Vbin 93 99	Vpp 85	]PSL 40
0000	0	0	0	2	22	19	12	3	3	0	0	0	0	0	0	46.5	28
0100	0	0	0	5	11	31	11	6	1	1	0	0	0	0	0	49.3	41
0200	0	0	0	2	12	26	12	4	0	0	0	0	0	0	0	45.6	26
0300	0	0	0	1	14	27	15	7	1	0	0	0	0	0	0	49.4	41
0400	0	0	0	0	27	52	50	21	1	0	0	0	0	0	0	49.8	102
0500	0	0	0	5	33	137	174	61	14	1	0	0	0	0	0	50.2	337
0600	0	0	0	1	38	180	286	128	27	4	2	1	0	0	0	51.7	580
0700	1	1	11	33	217	600	505	126	15	1	1	0	0	0	0	48.1	1047
0800	1	6	9	60	435	933	452	71	8	2	0	0	0	0	0	45.6	1076
0900	1	0	6	52	371	850	397	67	8	3	1	0	0	0	0	46	962
1000	0	0	0	30	321	848	381	66	6	1	0	0	0	0	0	45.7	914
1100	0	0	2	58	495	781	336	39	8	1	0	0	0	0	0	44.7	792
1200	0	2	0	54	425	832	366	61	11	0	0	0	1	0	0	45.3	896
1300	0	3	7	50	403	920	357	61	7	3	1	0	0	0	0	45.1	937
1400	2	10	16	58	422	948	379	61	12	1	0	0	0	0	0	45.1	964
1500	0	2	10	75	451	993	386	57	6	3	0	0	0	0	0	45.2	996
1600	4	4	8	47	394	997	466	85	6	0	0	0	0	0	0	45.7	1141
1700	0	0	19	99	497	1028	439	52	10	4	0	0	0	0	0	45.1	1077
1800	0	0	8	124	520	863	382	43	14	2	0	0	1	0	0	45	906
1900	0	0	0	19	276	651	365	72	8	3	1	0	0	0	0	46.4	833
2000	0	0	1	11	169	479	233	63	10	1	0	0	0	0	0	46.6	585
2100	0	0	1	22	180	325	123	19	9	0	2	0	0	0	0	45.5	327
2200	0	0	1	10	117	205	91	19	10	0	1	0	0	0	0	46.1	240
2300	0	0	1	7	51	134	65	17	5	0	0	0	0	0	0	47.3	153
<b>00-00</b>	<b>9</b>	<b>28</b>	<b>100</b>	<b>825</b>	<b>5901</b>	<b>12859</b>	<b>6283</b>	<b>1209</b>	<b>200</b>	<b>31</b>	<b>9</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>46.1</b>	<b>15001</b>

Vehicles = 27457

Posted speed limit = 40 mph, Exceeding = 15001 (54.63%), Mean Exceeding = 44.57 mph

Maximum = 83.4 mph, Minimum = 7.6 mph, Mean = 40.7 mph

85% Speed = 46.08 mph, 95% Speed = 49.88 mph, Median = 40.60 mph

12 mph Pace = 35 - 47, Number in Pace = 20795 (75.74%)

Variance = 31.35, Standard Deviation = 5.60 mph

Thursday, June 10, 2021

Time [--]	Vbin 6 12	Vbin 12 19	Vbin 19 25	Vbin 25 31	Vbin 31 37	Vbin 37 43	Vbin 43 50	Vbin 50 56	Vbin 56 62	Vbin 62 68	Vbin 68 75	Vbin 75 81	Vbin 81 87	Vbin 87 93	Vbin 93 99	Vpp 85	]PSL 40
0000	0	0	0	3	36	70	16	6	2	1	0	0	0	0	0	45.4	56
0100	0	0	0	2	25	36	15	4	1	0	0	0	0	0	0	46	33
0200	0	0	0	0	14	19	13	2	0	0	2	0	0	0	0	48.2	26
0300	0	0	0	1	8	31	19	6	0	0	0	0	0	0	0	47.9	40
0400	0	0	0	4	24	49	58	21	2	1	0	0	0	0	0	49.8	113
0500	0	0	0	1	40	187	156	50	9	1	0	0	0	0	0	49.5	335
0600	0	0	0	2	42	235	283	102	19	2	2	0	0	0	3	50.8	565
0700	1	0	3	12	201	688	476	107	25	4	0	0	0	0	0	47.8	1061
0800	0	0	8	42	354	900	500	78	12	0	0	0	0	0	0	46	1104
0900	0	0	1	28	314	867	447	69	7	0	0	0	0	0	0	46.2	1023
1000	0	2	7	35	332	795	338	58	6	0	0	0	0	0	0	45.4	885
1100	0	4	6	32	357	842	334	50	4	2	0	0	0	0	0	45.1	867
1200	0	5	5	37	397	804	353	68	8	1	0	0	0	0	0	45.6	853
1300	0	0	0	27	361	871	368	73	5	4	0	0	0	0	0	45.7	925
1400	1	0	2	48	473	903	383	63	6	2	0	0	0	0	0	45.4	937
1500	1	4	9	98	539	960	391	62	6	0	0	0	0	0	0	44.7	978
1600	11	20	22	92	537	977	330	37	6	1	0	0	0	0	0	44.4	880
1700	17	39	97	316	749	617	200	29	5	0	0	0	0	0	0	42.4	507
1800	0	0	5	50	510	779	262	19	3	4	0	0	0	0	0	44.1	639
1900	0	0	0	30	349	688	187	24	6	1	0	0	0	0	0	44	549
2000	0	4	15	126	326	411	115	6	0	0	0	0	0	0	0	42.7	302
2100	0	0	20	172	380	165	28	6	0	0	0	0	0	0	0	39.7	107
2200	0	0	2	20	176	220	88	20	6	0	0	0	0	0	0	44.7	214
2300	0	0	0	8	67	98	52	5	1	0	0	1	0	0	0	45.4	104
<b>00-00</b>	<b>31</b>	<b>78</b>	<b>202</b>	<b>1186</b>	<b>6611</b>	<b>12212</b>	<b>5412</b>	<b>965</b>	<b>139</b>	<b>24</b>	<b>4</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>45.4</b>	<b>13103</b>

Vehicles = 26868

Posted speed limit = 40 mph, Exceeding = 13103 (48.77%), Mean Exceeding = 44.41 mph

Maximum = 97.2 mph, Minimum = 7.5 mph, Mean = 39.9 mph

85% Speed = 45.41 mph, 95% Speed = 49.10 mph, Median = 39.82 mph

12 mph Pace = 34 - 46, Number in Pace = 19962 (74.30%)  
 Variance = 34.73, Standard Deviation = 5.89 mph

**Friday, June 11, 2021**

Time [--]	Vbin 6 12	Vbin 12 19	Vbin 19 25	Vbin 25 31	Vbin 31 37	Vbin 37 43	Vbin 43 50	Vbin 50 56	Vbin 56 62	Vbin 62 68	Vbin 68 75	Vbin 75 81	Vbin 81 87	Vbin 87 93	Vbin 93 99	Vpp 85	JPSL 40
0000	0	0	0	3	34	64	28	3	4	0	0	0	0	0	0	45.7	71
0100	0	0	0	3	26	37	16	2	2	0	0	0	0	0	0	45.9	34
0200	0	0	0	1	17	22	9	3	1	1	0	0	0	0	0	44.9	24
0300	0	0	0	2	17	23	11	6	2	0	0	0	0	0	0	49.1	30
0400	0	0	0	3	32	69	39	10	0	0	0	0	0	0	0	46.7	93
0500	0	0	0	5	52	184	118	34	6	0	0	0	0	0	0	47.9	277
0600	0	0	1	3	43	274	254	54	13	0	0	0	0	0	0	48.4	491
0700	6	14	23	86	305	629	331	64	13	0	0	0	0	0	0	45.9	756
0800	0	2	11	158	717	760	155	10	2	0	0	0	0	0	0	41.9	462
0900	0	0	0	29	501	821	307	36	5	0	0	0	0	0	0	44.3	767
1000	0	0	0	19	369	770	271	41	1	1	0	0	0	0	0	45	695
1100	1	11	30	133	647	673	187	14	6	0	0	0	2	0	0	42.7	505
1200	0	7	13	118	662	853	190	22	2	0	0	0	0	0	0	42.6	588
1300	0	1	7	71	481	837	271	33	1	0	0	0	0	0	0	44.2	745
1400	0	0	2	62	557	916	277	36	6	0	0	0	0	0	0	44	780
1500	3	2	24	115	537	912	289	45	4	2	0	0	0	0	0	44	804
1600	0	1	8	85	639	947	277	40	2	0	0	0	0	0	0	43.7	801
1700	0	1	21	77	556	943	351	38	7	2	0	0	0	0	0	44.3	896
1800	0	0	0	37	467	992	299	39	2	0	1	0	0	0	0	44.2	822
1900	0	0	1	27	349	706	255	49	4	0	0	0	0	0	0	44.9	691
2000	0	0	0	17	214	497	184	27	3	2	0	0	0	0	0	45.1	475
2100	0	0	0	22	221	366	132	21	6	0	1	0	0	0	0	44.5	340
2200	0	0	0	11	139	258	104	21	1	1	0	0	0	0	0	45.2	245
2300	0	0	0	4	93	184	90	18	4	2	1	0	0	0	0	46.4	209
<b>00-00</b>	<b>10</b>	<b>39</b>	<b>141</b>	<b>1091</b>	<b>7675</b>	<b>12737</b>	<b>4445</b>	<b>666</b>	<b>97</b>	<b>11</b>	<b>3</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>44.4</b>	<b>11601</b>

Vehicles = 26917

Posted speed limit = 40 mph, Exceeding = 11601 (43.10%), Mean Exceeding = 43.95 mph

Maximum = 82.1 mph, Minimum = 7.0 mph, Mean = 39.4 mph

85% Speed = 44.40 mph, 95% Speed = 47.98 mph, Median = 39.26 mph

12 mph Pace = 33 - 45, Number in Pace = 21009 (78.05%)

Variance = 28.00, Standard Deviation = 5.29 mph

**Saturday, June 12, 2021**

Time [--]	Vbin 6 12	Vbin 12 19	Vbin 19 25	Vbin 25 31	Vbin 31 37	Vbin 37 43	Vbin 43 50	Vbin 50 56	Vbin 56 62	Vbin 62 68	Vbin 68 75	Vbin 75 81	Vbin 81 87	Vbin 87 93	Vbin 93 99	Vpp 85	JPSL 40
0000	0	0	0	4	56	114	37	14	2	1	0	0	0	0	0	46.5	113
0100	0	0	0	3	22	54	23	2	2	0	0	0	0	0	0	46	57
0200	0	0	0	1	16	42	25	8	0	1	0	0	0	0	0	48.4	60
0300	0	0	1	1	19	25	21	4	0	1	0	0	0	0	0	46.2	35
0400	0	0	1	5	12	37	28	9	1	1	0	0	0	0	0	48	65
0500	0	0	0	3	11	47	34	20	7	1	1	0	0	0	0	52.9	89
0600	0	0	0	1	17	124	109	38	13	3	0	0	0	0	0	50.7	237
0700	0	1	0	3	43	187	206	85	19	5	0	0	0	0	0	50.8	449
0800	0	0	2	13	112	426	301	87	16	6	0	0	0	0	0	48.5	701
0900	0	0	0	37	275	611	341	53	6	1	1	1	0	0	0	46.2	776
1000	0	0	8	47	279	830	382	56	6	0	0	0	0	0	0	45.7	931
1100	0	3	9	79	464	912	347	49	8	1	0	0	0	0	0	44.9	901
1200	0	6	16	104	459	828	376	63	6	6	0	0	0	0	0	45.4	899
1300	0	1	12	75	491	1015	375	54	6	1	0	0	0	0	0	45	1005
1400	1	0	15	103	555	920	352	50	7	0	0	0	0	0	0	44.6	872
1500	0	1	16	73	441	920	374	48	10	4	0	0	0	0	0	44.9	917
1600	0	0	2	37	367	921	432	79	11	1	0	0	0	0	0	46	1047
1700	0	4	7	43	356	979	376	50	8	0	0	0	0	0	0	45.3	984
1800	0	0	0	18	313	919	373	74	10	0	0	1	0	0	0	45.4	993
1900	0	0	0	25	269	757	344	55	10	1	2	0	0	0	2	45.9	839
2000	0	0	0	15	186	543	297	55	9	0	1	0	0	0	0	46.3	675
2100	0	0	0	17	263	362	145	26	6	0	0	0	0	0	0	45.2	354
2200	0	0	0	16	188	332	112	27	3	0	0	0	0	0	0	44.9	319
2300	0	0	0	10	117	242	77	14	2	1	3	0	0	0	0	44.6	241
<b>00-00</b>	<b>1</b>	<b>16</b>	<b>89</b>	<b>733</b>	<b>5331</b>	<b>12147</b>	<b>5487</b>	<b>1020</b>	<b>168</b>	<b>35</b>	<b>8</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>45.9</b>	<b>13559</b>

Vehicles = 25039

Posted speed limit = 40 mph, Exceeding = 13559 (54.15%), Mean Exceeding = 44.45 mph

Maximum = 97.8 mph, Minimum = 7.4 mph, Mean = 40.7 mph

85% Speed = 45.86 mph, 95% Speed = 49.66 mph, Median = 40.49 mph

12 mph Pace = 34 - 46, Number in Pace = 19143 (76.45%)

Variance = 30.01, Standard Deviation = 5.48 mph

Sunday, June 13, 2021

Time [--]	Vbin 6 12	Vbin 12 19	Vbin 19 25	Vbin 25 31	Vbin 31 37	Vbin 37 43	Vbin 43 50	Vbin 50 56	Vbin 56 62	Vbin 62 68	Vbin 68 75	Vbin 75 81	Vbin 81 87	Vbin 87 93	Vbin 93 99	Vpp 85	JPSL 40
0000	0	0	1	6	74	121	50	12	1	3	0	0	0	0	0	46.1	123
0100	0	0	0	5	43	85	41	8	4	0	0	1	0	0	0	46.6	101
0200	0	0	0	3	26	51	31	4	2	0	0	0	0	0	0	47.1	70
0300	1	0	0	0	27	41	17	9	0	0	0	0	0	0	0	46.6	49
0400	0	0	0	1	16	31	13	6	1	2	0	0	0	0	0	48.2	41
0500	0	0	0	3	13	30	51	10	5	0	0	0	0	0	0	49.4	90
0600	0	0	1	2	21	77	79	37	3	1	1	0	0	0	0	50.8	176
0700	0	0	0	3	49	149	147	56	13	4	0	0	0	0	0	50.6	321
0800	0	0	0	5	62	264	230	47	9	1	0	0	0	0	0	48.3	473
0900	0	0	0	3	106	398	279	63	8	0	0	0	0	0	0	48	594
1000	0	0	0	12	212	657	374	91	12	2	2	0	0	0	0	47.1	903
1100	2	9	12	70	374	712	310	52	5	1	1	0	0	1	0	45.3	739
1200	1	1	30	162	619	769	190	16	2	3	1	0	0	0	0	42.7	568
1300	0	1	11	51	403	910	332	43	3	0	0	0	0	0	0	44.9	900
1400	0	3	5	124	721	691	146	14	0	0	0	0	0	0	0	42.1	499
1500	0	0	8	49	486	802	285	24	2	1	2	0	0	0	2	44.3	730
1600	0	0	3	49	268	760	382	60	9	3	1	0	0	0	1	46.2	917
1700	0	0	0	4	206	788	383	62	14	5	0	0	0	0	0	46.3	940
1800	0	0	0	10	138	626	427	76	11	2	1	0	0	0	0	47.2	915
1900	0	0	0	0	135	522	352	59	17	0	0	0	0	0	0	47.3	766
2000	0	0	0	10	147	423	235	54	5	4	0	0	0	0	0	47	541
2100	0	0	0	19	174	302	103	29	6	2	1	0	0	0	0	44.7	296
2200	0	0	0	10	115	216	103	22	4	1	1	0	0	0	0	45.7	251
2300	0	0	0	10	39	122	54	8	2	1	2	0	0	0	0	46.1	132
<b>00-00</b>	<b>4</b>	<b>14</b>	<b>71</b>	<b>611</b>	<b>4474</b>	<b>9547</b>	<b>4614</b>	<b>862</b>	<b>138</b>	<b>36</b>	<b>13</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>3</b>	<b>46.1</b>	<b>11135</b>

Vehicles = 20389

Posted speed limit = 40 mph, Exceeding = 11135 (54.61%), Mean Exceeding = 44.56 mph

Maximum = 98.9 mph, Minimum = 9.8 mph, Mean = 40.7 mph

85% Speed = 46.08 mph, 95% Speed = 49.88 mph, Median = 40.49 mph

12 mph Pace = 35 - 47, Number in Pace = 15380 (75.43%)

Variance = 31.56, Standard Deviation = 5.62 mph

Monday, June 14, 2021

Time [--]	Vbin 6 12	Vbin 12 19	Vbin 19 25	Vbin 25 31	Vbin 31 37	Vbin 37 43	Vbin 43 50	Vbin 50 56	Vbin 56 62	Vbin 62 68	Vbin 68 75	Vbin 75 81	Vbin 81 87	Vbin 87 93	Vbin 93 99	Vpp 85	JPSL 40
0000	0	0	0	3	39	53	22	7	4	2	1	0	0	0	0	47.4	67
0100	0	0	0	2	19	36	12	10	1	0	1	0	0	0	0	49.3	45
0200	0	0	0	2	14	17	10	2	0	0	0	0	0	0	0	45.9	22
0300	0	0	0	2	15	24	14	4	0	0	1	0	0	0	0	47.1	34
0400	0	0	0	5	18	59	42	20	4	1	0	0	0	0	0	50.3	106
0500	0	0	0	4	33	143	155	76	14	3	0	0	0	0	0	51.6	340
0600	0	0	0	2	29	271	326	103	32	3	0	0	0	0	0	50.3	649
0700	2	3	1	20	196	575	396	99	14	3	2	0	0	0	0	48	846
0800	0	3	23	81	463	836	403	62	9	2	0	0	0	0	0	45.6	951
0900	0	0	1	23	270	793	449	82	7	2	0	0	0	0	0	46.3	1001
1000	0	0	0	20	216	770	426	56	8	3	0	0	0	0	0	46.3	945
1100	0	0	2	46	309	800	338	65	3	0	0	0	0	0	0	45.3	851
1200	0	1	6	24	299	824	383	66	13	1	2	0	0	0	0	45.7	930
1300	0	0	1	19	303	864	382	55	9	1	0	0	0	0	0	45.6	936
1400	0	0	2	29	382	839	439	71	13	1	0	0	0	0	0	46	997
1500	1	6	14	62	394	974	467	55	9	2	0	0	0	0	0	45.7	1127
1600	2	12	16	63	398	992	481	75	8	3	0	0	0	0	0	45.7	1160
1700	0	2	14	66	351	905	513	96	4	0	1	0	0	0	0	46.3	1143
1800	0	0	0	23	286	814	466	93	14	1	0	0	0	0	0	46.8	1054
1900	0	0	0	33	240	527	365	65	16	5	0	0	0	0	0	47.1	763
2000	0	0	0	10	172	492	262	50	10	5	1	1	0	0	0	46.8	636
2100	0	0	2	9	187	319	117	22	1	2	0	1	0	0	0	45	326
2200	0	1	1	32	139	173	38	9	1	1	0	0	0	0	0	43.3	144
2300	0	0	0	12	60	107	47	3	0	0	0	0	0	0	0	44.2	116
<b>00-00</b>	<b>5</b>	<b>28</b>	<b>83</b>	<b>592</b>	<b>4832</b>	<b>12207</b>	<b>6553</b>	<b>1246</b>	<b>194</b>	<b>41</b>	<b>9</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>46.4</b>	<b>15189</b>

Vehicles = 25792

Posted speed limit = 40 mph, Exceeding = 15189 (58.89%), Mean Exceeding = 44.65 mph

Maximum = 80.6 mph, Minimum = 7.9 mph, Mean = 41.2 mph

85% Speed = 46.42 mph, 95% Speed = 50.22 mph, Median = 41.05 mph

12 mph Pace = 35 - 47, Number in Pace = 19629 (76.10%)

Variance = 30.23, Standard Deviation = 5.50 mph

Tuesday, June 15, 2021



Time [--]	Vbin 6 12	Vbin 12 19	Vbin 19 25	Vbin 25 31	Vbin 31 37	Vbin 37 43	Vbin 43 50	Vbin 50 56	Vbin 56 62	Vbin 62 68	Vbin 68 75	Vbin 75 81	Vbin 81 87	Vbin 87 93	Vbin 93 99	Vpp 85	JPSL 40
0000	0	0	0	2	35	46	11	1	0	0	0	0	0	0	0	43.3	36
0100	0	0	0	3	23	20	20	4	1	0	0	0	0	0	0	47	32
0200	0	0	0	2	13	26	11	2	0	0	0	0	0	0	0	46.6	25
0300	0	0	0	6	13	35	12	3	2	0	0	0	0	0	0	45.1	34
0400	0	0	0	4	26	50	52	15	2	0	0	0	0	0	0	49	102
0500	0	0	0	1	39	163	167	67	10	2	0	0	0	0	0	50.7	342
0600	0	0	0	1	30	261	261	113	25	1	0	0	0	0	0	50.9	580
0700	0	2	7	14	135	510	406	112	12	3	0	0	0	0	0	48.3	853
0800	1	13	12	62	401	856	475	99	9	3	0	0	0	0	0	46.8	1078
0900	0	0	1	15	292	745	495	84	8	0	0	0	0	0	0	47.1	1036
1000	0	0	5	20	311	714	339	70	10	0	0	0	0	0	0	46.1	818
1100	0	0	0	48	340	820	333	51	9	0	0	0	0	0	0	45.5	853
1200	0	0	1	18	335	817	387	69	8	1	0	0	0	0	0	46	928
1300	0	0	3	50	282	842	386	68	11	2	0	0	0	0	0	46	973
1400	0	0	1	19	339	840	380	77	14	0	0	0	0	0	0	46	970
1500	0	3	4	22	401	886	465	68	6	0	0	0	0	0	0	45.7	1028
1600	0	4	29	81	421	977	472	82	14	2	0	0	0	0	0	45.7	1098
1700	1	8	22	62	450	959	493	81	11	0	0	0	0	0	0	45.9	1139
1800	0	0	1	21	236	906	524	86	10	2	1	0	1	0	0	46.5	1172
1900	0	0	1	34	245	704	367	69	9	1	0	0	0	0	0	46.4	857
2000	0	0	0	12	148	522	234	52	8	3	0	0	0	0	0	46.4	595
2100	0	0	0	17	206	333	116	29	4	2	0	0	0	0	0	45.4	317
2200	0	0	0	8	117	201	88	25	6	0	0	0	1	0	0	46.6	222
2300	0	1	0	12	56	108	72	16	6	0	1	0	0	0	0	48	157
<b>00-00</b>	<b>2</b>	<b>31</b>	<b>87</b>	<b>534</b>	<b>4894</b>	<b>12341</b>	<b>6566</b>	<b>1343</b>	<b>195</b>	<b>22</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>46.5</b>	<b>15245</b>

Vehicles = 26019

Posted speed limit = 40 mph, Exceeding = 15245 (58.59%), Mean Exceeding = 44.69 mph

Maximum = 85.5 mph, Minimum = 10.2 mph, Mean = 41.2 mph

85% Speed = 46.53 mph, 95% Speed = 50.33 mph, Median = 41.05 mph

12 mph Pace = 35 - 47, Number in Pace = 19801 (76.10%)

Variance = 29.87, Standard Deviation = 5.47 mph

#### Grand Total

Time [--]	Vbin 6 12	Vbin 12 19	Vbin 19 25	Vbin 25 31	Vbin 31 37	Vbin 37 43	Vbin 43 50	Vbin 50 56	Vbin 56 62	Vbin 62 68	Vbin 68 75	Vbin 75 81	Vbin 81 87	Vbin 87 93	Vbin 93 99	Vpp 85	JPSL 40
--	62	234	773	5572	39718	84050	39360	7311	1131	200	48	7	6	1	8	45.9	94833

Vehicles = 178481

Posted speed limit = 40 mph, Exceeding = 94833 (53.13%), Mean Exceeding = 44.48 mph

Maximum = 98.9 mph, Minimum = 7.0 mph, Mean = 40.5 mph

85% Speed = 45.86 mph, 95% Speed = 49.66 mph, Median = 40.38 mph

12 mph Pace = 34 - 46, Number in Pace = 135072 (75.68%)

Variance = 31.23, Standard Deviation = 5.59 mph

# Connor Speed Report

## Dataset

Site Name MONTROSE @ I-270 RAMP WB  
 Direction West  
 Encoded Direction 8

Saturday, May 15, 2021

Time [--]	Vbin 6 12	Vbin 12 19	Vbin 19 25	Vbin 25 31	Vbin 31 37	Vbin 37 43	Vbin 43 50	Vbin 50 56	Vbin 56 62	Vbin 62 68	Vbin 68 75	Vbin 75 81	Vbin 81 87	Vbin 87 93	Vbin 93 99	Vpp 85	JPSL 40
0000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0
0100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0
0200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0
0300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0
0400	0	0	0	2	3	6	4	2	0	0	0	0	0	0	0	49	9
0500	0	0	0	1	5	33	48	16	6	3	0	0	0	0	0	52.3	94
0600	0	1	0	3	12	65	81	53	16	4	3	0	0	0	0	54.2	198
0700	0	0	2	9	36	125	173	87	22	5	2	1	0	1	0	52.6	369
0800	0	0	1	2	30	167	259	114	35	15	3	3	0	1	0	53.4	547
0900	0	0	0	6	49	252	324	144	48	8	0	1	0	1	0	52.2	706
1000	0	0	1	5	51	251	421	164	40	13	6	2	0	0	0	52.3	824
1100	0	2	1	8	131	422	385	134	25	8	4	2	0	0	0	49.9	831
1200	0	0	0	14	134	448	420	127	33	11	6	1	0	0	0	49.7	883
1300	0	0	0	22	184	408	475	166	39	9	0	1	0	0	0	50.1	960
1400	1	0	1	12	145	435	445	187	43	13	4	0	0	0	0	51.1	984
1500	0	0	0	15	118	461	415	148	34	10	6	0	0	0	0	50	935
1600	0	0	0	26	123	374	439	137	33	9	2	0	1	0	0	49.9	874
1700	0	1	0	9	100	353	419	139	34	11	1	0	0	1	0	50.6	834
1800	0	0	0	10	74	308	357	167	45	10	6	1	0	0	0	51.9	807
1900	0	0	0	5	64	266	265	135	23	6	1	0	0	0	0	51.3	601
2000	0	0	0	3	44	220	234	84	21	10	3	1	0	0	0	51.1	496
2100	0	0	0	3	29	168	191	73	20	8	0	0	1	0	0	51.4	405
2200	0	0	0	3	31	89	141	63	21	3	0	1	0	0	0	52.4	283
2300	0	0	0	2	10	67	71	30	10	2	0	0	0	0	0	52.1	160
<b>00-00</b>	<b>1</b>	<b>4</b>	<b>6</b>	<b>160</b>	<b>1373</b>	<b>4918</b>	<b>5567</b>	<b>2170</b>	<b>548</b>	<b>158</b>	<b>47</b>	<b>14</b>	<b>2</b>	<b>4</b>	<b>0</b>	<b>51</b>	<b>11800</b>

Vehicles = 14972

Posted speed limit = 40 mph, Exceeding = 11800 (78.81%), Mean Exceeding = 47.12 mph

Maximum = 92.7 mph, Minimum = 9.1 mph, Mean = 44.9 mph

85% Speed = 51.00 mph, 95% Speed = 56.04 mph, Median = 44.52 mph

12 mph Pace = 39 - 51, Number in Pace = 10289 (68.72%)

Variance = 43.21, Standard Deviation = 6.57 mph

Sunday, May 16, 2021

Time [--]	Vbin 6 12	Vbin 12 19	Vbin 19 25	Vbin 25 31	Vbin 31 37	Vbin 37 43	Vbin 43 50	Vbin 50 56	Vbin 56 62	Vbin 62 68	Vbin 68 75	Vbin 75 81	Vbin 81 87	Vbin 87 93	Vbin 93 99	Vpp 85	JPSL 40
0000	0	0	0	1	9	40	38	13	2	2	0	1	0	1	0	50.8	86
0100	0	0	0	1	5	23	26	11	3	1	1	0	0	0	0	52.6	62
0200	0	0	0	0	6	12	11	6	1	0	0	1	0	0	0	54.6	25
0300	0	0	0	0	0	8	14	3	0	0	0	0	0	0	0	49.6	22
0400	0	0	0	0	2	8	16	6	2	1	1	0	0	0	0	53.8	32
0500	0	0	0	2	11	18	26	17	8	3	0	0	0	0	0	55.7	64
0600	0	0	0	0	7	21	58	34	7	5	1	0	1	0	0	54.8	120
0700	0	0	0	0	8	59	85	55	22	7	2	0	0	0	0	55.1	216
0800	0	0	0	0	14	97	161	94	21	7	3	0	0	0	0	52.8	356
0900	0	0	0	3	39	168	237	104	26	7	5	1	0	0	0	51.6	486
1000	0	0	0	2	32	221	354	149	32	6	2	0	2	0	0	51.4	708
1100	0	0	0	7	66	339	398	161	42	5	3	1	0	0	0	51.3	827
1200	0	0	0	6	72	327	393	175	29	4	3	0	1	0	0	51.2	831
1300	0	0	0	9	135	368	447	165	33	10	0	0	0	0	0	50.3	898
1400	0	0	2	48	211	482	306	82	9	3	1	2	0	0	0	47.5	682
1500	0	0	0	6	187	424	312	86	14	2	0	0	0	0	0	48.2	684
1600	0	0	2	21	162	406	300	99	10	2	0	0	0	0	0	48.4	669
1700	0	0	0	3	107	301	298	95	18	8	2	1	0	0	0	49.7	625
1800	0	0	0	2	42	275	286	125	30	12	3	3	0	0	0	51.7	656
1900	0	0	0	2	23	157	234	131	29	3	5	2	0	0	0	52.7	525
2000	0	0	1	0	32	134	185	51	16	7	0	0	0	0	0	50.7	351
2100	0	0	0	5	18	81	117	53	8	4	2	0	2	0	0	51.4	247
2200	0	0	0	3	18	52	68	29	11	1	3	0	0	0	0	53.6	145
2300	0	0	1	0	9	26	32	13	6	1	1	0	0	0	0	52.5	71
<b>00-00</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>121</b>	<b>1215</b>	<b>4047</b>	<b>4402</b>	<b>1757</b>	<b>379</b>	<b>101</b>	<b>38</b>	<b>12</b>	<b>6</b>	<b>1</b>	<b>0</b>	<b>50.8</b>	<b>9388</b>

Vehicles = 12085

Posted speed limit = 40 mph, Exceeding = 9388 (77.68%), Mean Exceeding = 47.00 mph  
 Maximum = 88.6 mph, Minimum = 19.6 mph, Mean = 44.7 mph  
 85% Speed = 50.78 mph, 95% Speed = 55.48 mph, Median = 44.29 mph  
 12 mph Pace = 38 - 50, Number in Pace = 8294 (68.63%)  
 Variance = 42.23, Standard Deviation = 6.50 mph

**Monday, May 17, 2021**

Time [--]	Vbin 6 12	Vbin 12 19	Vbin 19 25	Vbin 25 31	Vbin 31 37	Vbin 37 43	Vbin 43 50	Vbin 50 56	Vbin 56 62	Vbin 62 68	Vbin 68 75	Vbin 75 81	Vbin 81 87	Vbin 87 93	Vbin 93 99	Vpp 85	JPSL 40
0000	0	0	0	0	1	7	10	3	2	2	0	0	0	0	0	57.4	23
0100	0	0	0	0	2	7	10	9	2	1	0	0	1	0	0	55.4	28
0200	0	0	0	2	1	10	5	3	2	0	0	0	0	0	0	51.4	16
0300	0	0	0	0	6	6	11	9	2	0	0	0	0	1	0	53.6	29
0400	0	0	1	5	16	41	43	19	8	1	0	0	0	0	0	52.3	95
0500	0	0	1	2	9	68	124	79	16	5	0	1	1	0	0	53.4	272
0600	0	2	1	10	64	171	249	117	26	12	6	1	1	0	0	52.5	526
0700	0	0	1	17	107	355	335	126	38	6	0	1	0	0	0	50.2	746
0800	1	0	1	15	137	391	391	178	36	2	1	1	0	0	0	50.9	861
0900	0	0	2	11	62	259	363	151	42	7	4	1	0	0	0	51.8	729
1000	0	0	0	11	58	265	306	141	40	8	3	1	0	0	0	51.7	691
1100	0	4	9	28	113	316	329	115	29	6	0	0	0	1	0	50	693
1200	0	0	3	26	123	325	341	140	34	4	0	1	0	0	0	50.8	731
1300	0	3	1	30	94	352	346	113	35	11	1	0	0	0	0	50.2	736
1400	0	0	2	11	76	353	411	145	44	7	1	0	0	0	0	50.9	849
1500	0	0	0	15	79	369	375	194	44	13	2	0	0	0	0	51.8	869
1600	0	1	0	10	93	399	418	134	48	8	2	0	1	0	0	50.6	876
1700	0	0	2	12	85	408	452	185	38	9	3	0	0	1	0	50.9	955
1800	0	0	0	3	55	289	401	173	43	5	4	0	0	0	0	51.9	826
1900	0	0	0	9	47	220	267	138	35	8	4	1	1	0	0	52.5	600
2000	0	0	0	0	22	131	197	97	19	9	2	2	0	0	0	52.5	422
2100	0	0	2	6	46	103	132	44	11	6	3	2	1	0	0	51.1	265
2200	0	0	0	1	12	59	89	38	12	1	1	2	1	0	0	52.2	184
2300	0	0	0	0	1	24	42	21	6	2	0	0	0	0	0	52.8	87
<b>00-00</b>	<b>1</b>	<b>10</b>	<b>26</b>	<b>224</b>	<b>1309</b>	<b>4928</b>	<b>5647</b>	<b>2372</b>	<b>612</b>	<b>133</b>	<b>37</b>	<b>14</b>	<b>7</b>	<b>3</b>	<b>0</b>	<b>51.3</b>	<b>12109</b>

Vehicles = 15323  
 Posted speed limit = 40 mph, Exceeding = 12109 (79.02%), Mean Exceeding = 47.22 mph  
 Maximum = 90.6 mph, Minimum = 11.6 mph, Mean = 44.9 mph  
 85% Speed = 51.34 mph, 95% Speed = 56.15 mph, Median = 44.63 mph  
 12 mph Pace = 39 - 51, Number in Pace = 10380 (67.74%)  
 Variance = 45.19, Standard Deviation = 6.72 mph

**Tuesday, May 18, 2021**

Time [--]	Vbin 6 12	Vbin 12 19	Vbin 19 25	Vbin 25 31	Vbin 31 37	Vbin 37 43	Vbin 43 50	Vbin 50 56	Vbin 56 62	Vbin 62 68	Vbin 68 75	Vbin 75 81	Vbin 81 87	Vbin 87 93	Vbin 93 99	Vpp 85	JPSL 40
0000	0	0	1	1	0	13	14	7	3	2	0	0	0	0	0	54.7	33
0100	0	0	0	0	2	9	8	6	2	0	1	0	0	0	1	56.4	23
0200	0	0	0	0	3	5	4	0	1	1	0	0	0	0	0	58.1	9
0300	0	0	0	2	5	10	10	5	0	0	0	1	0	0	0	51.9	25
0400	0	0	0	2	6	31	32	14	3	4	0	0	0	0	0	57.5	105
0500	0	0	0	4	13	75	137	76	30	4	1	0	0	0	0	53.8	295
0600	0	0	0	6	54	171	234	141	29	15	4	3	0	0	0	52.9	537
0700	0	1	1	37	136	272	389	147	37	13	1	0	0	0	0	51	773
0800	0	1	5	25	131	372	433	169	42	6	0	0	0	0	0	50.7	898
0900	0	0	2	5	81	314	326	125	33	8	6	0	0	0	0	51.3	700
1000	0	0	1	26	109	295	306	134	29	10	0	1	0	0	0	50.9	674
1100	0	2	5	16	140	326	359	149	27	6	1	0	0	0	0	50.6	754
1200	0	0	2	34	133	368	385	129	32	11	0	0	0	0	1	49.9	782
1300	0	1	2	31	113	333	425	142	38	8	5	1	0	0	0	50.7	845
1400	0	2	4	26	101	376	430	166	30	2	1	1	0	0	0	50.4	879
1500	0	1	1	12	70	353	427	200	36	7	2	1	1	0	0	51.2	927
1600	0	0	3	10	99	336	431	196	46	11	1	0	0	1	0	51.7	908
1700	0	0	1	10	105	431	476	163	48	10	5	2	1	1	0	50.6	979
1800	0	0	0	6	86	323	397	159	47	15	1	2	0	0	0	51.5	830
1900	0	0	4	8	70	287	303	115	32	9	1	0	0	0	0	50.7	654
2000	0	0	0	2	34	167	233	107	23	8	4	0	0	1	0	52.1	487
2100	0	0	1	1	22	143	163	68	21	8	3	1	0	0	1	52.2	355
2200	0	0	0	2	10	60	81	56	21	3	2	1	1	0	0	54.6	206
2300	0	0	0	2	5	30	41	24	10	4	1	0	0	0	0	54.6	104
<b>00-00</b>	<b>0</b>	<b>8</b>	<b>33</b>	<b>268</b>	<b>1528</b>	<b>5100</b>	<b>6044</b>	<b>2516</b>	<b>631</b>	<b>164</b>	<b>44</b>	<b>14</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>51.2</b>	<b>12782</b>

Vehicles = 16359  
 Posted speed limit = 40 mph, Exceeding = 12782 (78.13%), Mean Exceeding = 47.28 mph  
 Maximum = 99.0 mph, Minimum = 13.8 mph, Mean = 44.9 mph  
 85% Speed = 51.23 mph, 95% Speed = 56.15 mph, Median = 44.63 mph

12 mph Pace = 38 - 50, Number in Pace = 10966 (67.03%)  
 Variance = 46.71, Standard Deviation = 6.83 mph

**Wednesday, May 19, 2021**

Time [--]	Vbin 6 12	Vbin 12 19	Vbin 19 25	Vbin 25 31	Vbin 31 37	Vbin 37 43	Vbin 43 50	Vbin 50 56	Vbin 56 62	Vbin 62 68	Vbin 68 75	Vbin 75 81	Vbin 81 87	Vbin 87 93	Vbin 93 99	Vpp 85	JPSL 40
0000	0	0	0	0	3	16	14	10	3	0	1	1	0	0	0	54	39
0100	0	0	0	0	5	4	8	3	3	2	0	0	0	0	0	60.3	19
0200	0	0	0	0	1	3	9	4	1	1	0	0	0	0	0	53.5	16
0300	0	0	0	1	3	9	9	7	2	0	1	0	0	0	0	53.8	25
0400	0	0	0	2	6	45	44	26	7	1	1	0	0	0	0	52.8	113
0500	0	0	0	2	16	78	144	65	20	5	1	2	0	0	0	52.5	284
0600	0	0	1	10	64	193	247	100	30	12	4	1	1	0	0	51.9	527
0700	0	0	14	47	93	315	386	119	35	8	3	0	0	0	0	50.2	740
0800	0	0	3	25	138	422	399	177	41	4	1	0	0	0	0	50.4	901
0900	0	0	0	3	58	237	381	166	39	11	1	1	0	0	0	51.9	766
1000	0	0	2	14	93	332	344	131	21	5	0	1	0	0	1	50.2	712
1100	0	0	1	16	120	382	378	150	36	5	2	0	1	0	0	50.6	809
1200	0	0	4	22	164	428	376	173	31	5	0	0	0	0	0	50.3	850
1300	0	0	3	15	125	415	403	146	33	6	2	0	0	0	0	50	874
1400	0	0	5	12	135	443	436	143	23	4	2	0	0	0	0	49.4	909
1500	0	1	1	17	104	421	496	179	33	6	2	2	0	0	0	50.4	1008
1600	0	0	3	7	144	438	445	161	33	9	5	0	0	0	0	50.3	915
1700	0	0	0	4	89	406	471	202	53	7	4	1	0	0	0	51.3	1023
1800	0	0	0	6	117	377	393	191	40	11	1	2	0	0	0	51.2	913
1900	0	0	0	9	50	203	357	137	39	6	5	0	0	1	0	52	682
2000	0	0	0	1	35	215	247	113	23	10	2	1	2	1	0	51.9	552
2100	0	0	0	3	32	151	178	70	23	4	2	0	2	1	0	51.7	377
2200	0	0	0	3	17	58	97	42	13	2	0	0	0	0	1	52.5	193
2300	0	0	0	2	4	31	43	12	9	3	2	0	0	0	0	54.9	91
<b>00-00</b>	<b>0</b>	<b>1</b>	<b>37</b>	<b>221</b>	<b>1616</b>	<b>5622</b>	<b>6305</b>	<b>2527</b>	<b>591</b>	<b>127</b>	<b>42</b>	<b>12</b>	<b>6</b>	<b>3</b>	<b>2</b>	<b>50.9</b>	<b>13338</b>

Vehicles = 17112

Posted speed limit = 40 mph, Exceeding = 13338 (77.95%), Mean Exceeding = 47.02 mph

Maximum = 95.2 mph, Minimum = 18.3 mph, Mean = 44.7 mph

85% Speed = 50.89 mph, 95% Speed = 55.59 mph, Median = 44.40 mph

12 mph Pace = 38 - 50, Number in Pace = 11728 (68.54%)

Variance = 42.81, Standard Deviation = 6.54 mph

**Thursday, May 20, 2021**

Time [--]	Vbin 6 12	Vbin 12 19	Vbin 19 25	Vbin 25 31	Vbin 31 37	Vbin 37 43	Vbin 43 50	Vbin 50 56	Vbin 56 62	Vbin 62 68	Vbin 68 75	Vbin 75 81	Vbin 81 87	Vbin 87 93	Vbin 93 99	Vpp 85	JPSL 40
0000	0	0	0	1	3	13	24	8	9	1	0	1	0	0	0	57.1	49
0100	0	0	0	1	3	8	11	4	4	0	0	0	0	0	0	52.7	25
0200	0	0	0	0	2	8	10	4	2	2	0	0	0	0	0	55.1	25
0300	0	0	0	2	3	17	12	3	0	1	0	0	0	0	0	49.5	30
0400	0	0	2	3	6	24	46	35	11	4	1	1	1	0	0	55.7	119
0500	0	0	0	2	20	74	115	67	17	10	0	2	0	0	0	53.6	265
0600	0	0	1	7	47	160	284	130	39	9	3	0	0	0	0	52.5	576
0700	0	0	0	18	102	334	400	153	47	7	2	0	1	0	0	51.1	826
0800	0	0	0	24	121	403	451	193	34	5	1	0	0	0	0	50.4	951
0900	0	0	2	10	84	340	356	145	38	16	4	2	0	0	0	51.4	792
1000	0	0	1	11	65	273	393	157	32	8	0	0	2	0	0	51	784
1100	0	0	0	12	103	369	353	153	51	6	0	0	0	0	0	51.3	794
1200	0	0	4	15	115	348	380	154	41	11	1	0	0	0	0	51	831
1300	0	0	0	32	96	405	406	162	41	4	3	1	0	0	0	50.7	877
1400	0	0	1	14	136	425	429	157	39	7	2	2	0	0	0	50.3	939
1500	0	2	5	14	111	419	430	177	35	13	5	0	1	0	0	50.7	935
1600	0	0	1	8	73	404	475	180	43	2	1	0	0	0	0	50.8	989
1700	0	0	2	20	144	468	452	199	39	10	5	1	0	0	0	50.8	998
1800	0	0	1	7	63	316	489	181	46	7	2	0	0	0	0	51.2	950
1900	0	0	0	1	73	290	347	136	34	8	1	0	0	1	0	51.1	728
2000	0	0	0	2	28	183	271	111	25	5	2	1	2	0	0	51.9	542
2100	0	0	0	1	35	143	212	71	22	7	1	0	0	0	0	51.2	415
2200	0	0	0	1	10	61	104	56	13	6	1	2	0	0	0	52.9	226
2300	0	0	0	0	3	33	46	27	8	2	1	0	0	0	0	53	107
<b>00-00</b>	<b>0</b>	<b>2</b>	<b>20</b>	<b>206</b>	<b>1446</b>	<b>5518</b>	<b>6496</b>	<b>2663</b>	<b>670</b>	<b>151</b>	<b>36</b>	<b>13</b>	<b>7</b>	<b>1</b>	<b>0</b>	<b>51.1</b>	<b>13773</b>

Vehicles = 17229

Posted speed limit = 40 mph, Exceeding = 13773 (79.94%), Mean Exceeding = 47.17 mph

Maximum = 90.3 mph, Minimum = 17.1 mph, Mean = 45.0 mph

85% Speed = 51.11 mph, 95% Speed = 56.04 mph, Median = 44.74 mph

12 mph Pace = 39 - 51, Number in Pace = 11880 (68.95%)

Variance = 42.02, Standard Deviation = 6.48 mph

Friday, May 21, 2021

Time [--]	Vbin 6 12	Vbin 12 19	Vbin 19 25	Vbin 25 31	Vbin 31 37	Vbin 37 43	Vbin 43 50	Vbin 50 56	Vbin 56 62	Vbin 62 68	Vbin 68 75	Vbin 75 81	Vbin 81 87	Vbin 87 93	Vbin 93 99	Vpp 85	JPSL 40
0000	0	0	0	1	6	22	24	8	0	1	0	0	0	0	0	49.7	46
0100	0	0	0	0	3	14	12	5	3	1	0	0	0	0	0	52.7	30
0200	1	0	1	1	4	11	13	2	1	0	0	0	0	0	0	49.2	25
0300	0	0	0	0	8	8	10	6	2	2	0	1	0	0	0	55.9	26
0400	0	0	0	1	7	32	52	34	10	1	0	1	0	0	0	53.5	122
0500	0	0	0	4	5	84	121	66	32	7	0	0	0	0	0	54.7	283
0600	0	0	0	6	47	164	245	114	33	11	3	2	1	0	0	53.2	527
0700	0	0	3	7	92	299	395	133	39	9	3	0	0	0	0	50.7	785
0800	0	5	17	33	180	405	416	157	21	5	2	0	0	0	0	49.7	868
0900	0	0	0	9	58	286	404	178	34	5	1	1	0	0	0	51.6	830
1000	0	0	0	12	88	303	379	170	41	4	2	0	0	0	0	51.4	795
1100	0	0	0	10	168	419	392	149	37	5	1	0	0	0	0	50.2	837
1200	0	0	6	37	168	484	429	130	22	5	1	0	0	0	0	49.1	892
1300	0	1	10	34	183	422	426	158	35	5	1	1	0	0	0	49.9	891
1400	0	2	5	31	141	453	464	150	38	3	1	0	0	0	0	49.7	951
1500	0	0	0	18	155	429	458	162	30	6	1	0	0	0	0	50	923
1600	0	0	0	14	112	442	517	157	19	6	1	1	0	0	0	49.5	983
1700	0	0	12	24	152	461	487	143	31	5	0	0	0	0	0	49.3	978
1800	0	0	6	15	135	427	402	151	19	8	2	0	0	0	0	49.9	855
1900	1	2	3	10	73	317	312	108	26	7	0	0	0	0	0	50	659
2000	1	0	0	3	44	205	287	92	22	6	3	0	0	0	0	50.8	547
2100	0	0	2	4	36	173	201	70	11	3	4	0	0	0	0	50.4	408
2200	0	0	0	0	17	92	131	59	14	5	0	0	0	0	0	52.1	270
2300	0	0	0	1	5	54	75	42	5	0	0	0	0	0	0	51.3	159
<b>00-00</b>	<b>3</b>	<b>10</b>	<b>65</b>	<b>275</b>	<b>1887</b>	<b>6006</b>	<b>6652</b>	<b>2444</b>	<b>525</b>	<b>110</b>	<b>26</b>	<b>7</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>50.3</b>	<b>13690</b>

Vehicles = 18011  
 Posted speed limit = 40 mph, Exceeding = 13690 (76.01%), Mean Exceeding = 46.77 mph  
 Maximum = 83.2 mph, Minimum = 9.4 mph, Mean = 44.2 mph  
 85% Speed = 50.33 mph, 95% Speed = 54.80 mph, Median = 44.18 mph  
 12 mph Pace = 38 - 50, Number in Pace = 12370 (68.68%)  
 Variance = 41.75, Standard Deviation = 6.46 mph

Saturday, May 22, 2021

Time [--]	Vbin 6 12	Vbin 12 19	Vbin 19 25	Vbin 25 31	Vbin 31 37	Vbin 37 43	Vbin 43 50	Vbin 50 56	Vbin 56 62	Vbin 62 68	Vbin 68 75	Vbin 75 81	Vbin 81 87	Vbin 87 93	Vbin 93 99	Vpp 85	JPSL 40
0000	0	0	0	1	11	32	56	18	3	2	1	1	0	1	0	51.3	103
0100	0	0	0	0	3	19	17	10	4	0	0	0	0	0	0	52.2	44
0200	0	0	0	0	4	12	10	7	1	1	0	0	0	0	0	53.5	25
0300	0	0	0	3	9	12	7	4	1	0	0	0	0	0	0	50	19
0400	0	0	0	0	4	8	13	9	1	1	0	0	0	0	0	52.5	30
<b>00-00</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>31</b>	<b>83</b>	<b>103</b>	<b>48</b>	<b>10</b>	<b>4</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>51.7</b>	<b>221</b>

Vehicles = 286  
 Posted speed limit = 40 mph, Exceeding = 221 (77.27%), Mean Exceeding = 47.93 mph  
 Maximum = 89.1 mph, Minimum = 26.5 mph, Mean = 45.3 mph  
 85% Speed = 51.67 mph, 95% Speed = 56.96 mph, Median = 45.13 mph  
 12 mph Pace = 37 - 49, Number in Pace = 183 (63.99%)  
 Variance = 55.63, Standard Deviation = 7.46 mph

Grand Total

Time [--]	Vbin 6 12	Vbin 12 19	Vbin 19 25	Vbin 25 31	Vbin 31 37	Vbin 37 43	Vbin 43 50	Vbin 50 56	Vbin 56 62	Vbin 62 68	Vbin 68 75	Vbin 75 81	Vbin 81 87	Vbin 87 93	Vbin 93 99	Vpp 85	JPSL 40
--	5	35	193	1479	10405	36222	41216	16497	3966	948	271	87	32	16	5	51	87101

Vehicles = 111377  
 Posted speed limit = 40 mph, Exceeding = 87101 (78.20%), Mean Exceeding = 47.08 mph  
 Maximum = 99.0 mph, Minimum = 9.1 mph, Mean = 44.8 mph  
 85% Speed = 51.00 mph, 95% Speed = 55.70 mph, Median = 44.40 mph  
 12 mph Pace = 38 - 50, Number in Pace = 75929 (68.17%)  
 Variance = 43.51, Standard Deviation = 6.60 mph

# Connor Speed Report

**Dataset**

Site Name MONTROSE @ POLE WB

Saturday, May 15, 2021

Time [--]	Vbin 6 12	Vbin 12 19	Vbin 19 25	Vbin 25 31	Vbin 31 37	Vbin 37 43	Vbin 43 50	Vbin 50 56	Vbin 56 62	Vbin 62 68	Vbin 68 75	Vbin 75 81	Vbin 81 87	Vbin 87 93	Vbin 93 99	Vpp 85	]PSL 40
0000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0
0100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0
0200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0
0300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0
0400	0	0	1	0	3	15	14	4	2	0	0	0	0	0	14	52.5	28
0500	0	0	0	3	18	42	33	15	3	0	0	0	0	0	0	50	74
0600	0	0	0	2	22	74	81	42	15	0	0	0	0	0	0	52.2	187
0700	0	0	0	14	68	176	152	60	12	1	0	0	0	0	0	50	322
0800	0	0	0	18	118	274	221	81	18	3	2	0	0	0	0	49.4	498
0900	0	0	0	35	212	370	250	78	17	2	0	0	0	0	0	48.1	567
1000	0	0	0	38	269	422	337	96	9	1	0	0	0	0	0	47.8	695
1100	0	0	4	53	382	602	319	51	15	4	0	0	0	0	0	46	698
1200	0	0	2	73	479	521	325	57	6	1	0	0	0	0	0	46	670
1300	0	0	0	63	429	637	350	71	17	8	0	1	0	0	0	46.3	806
1400	0	0	2	61	537	615	293	70	14	0	0	0	0	0	0	45.6	696
1500	0	3	4	87	552	581	254	75	14	1	0	0	0	0	0	45.3	637
1600	0	0	1	67	444	538	292	59	15	2	0	0	0	0	0	46.1	661
1700	0	0	2	63	333	515	380	93	11	1	0	0	0	0	0	47	796
1800	0	0	2	63	356	459	347	73	13	1	0	0	0	0	0	46.9	705
1900	0	0	0	46	304	393	226	73	13	2	0	0	0	0	0	47.3	547
2000	0	0	0	22	156	412	210	53	8	2	2	0	0	0	0	46.9	531
2100	0	0	0	22	146	332	157	39	11	3	1	0	0	0	0	46.9	392
2200	0	0	0	34	108	222	135	38	10	2	0	0	0	0	0	47.3	321
2300	0	0	0	6	43	135	118	14	2	1	0	0	0	0	0	47.3	216
<b>00-00</b>	<b>0</b>	<b>3</b>	<b>18</b>	<b>770</b>	<b>4979</b>	<b>7335</b>	<b>4494</b>	<b>1142</b>	<b>225</b>	<b>35</b>	<b>5</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>46.9</b>	<b>10047</b>

Vehicles = 19007

Posted speed limit = 40 mph, Exceeding = 10047 (52.86%), Mean Exceeding = 45.29 mph

Maximum = 79.2 mph, Minimum = 13.8 mph, Mean = 40.7 mph

85% Speed = 46.86 mph, 95% Speed = 51.34 mph, Median = 40.49 mph

12 mph Pace = 34 - 46, Number in Pace = 12856 (67.64%)

Variance = 37.76, Standard Deviation = 6.14 mph

Sunday, May 16, 2021

Time [--]	Vbin 6 12	Vbin 12 19	Vbin 19 25	Vbin 25 31	Vbin 31 37	Vbin 37 43	Vbin 43 50	Vbin 50 56	Vbin 56 62	Vbin 62 68	Vbin 68 75	Vbin 75 81	Vbin 81 87	Vbin 87 93	Vbin 93 99	Vpp 85	]PSL 40
0000	0	0	2	4	33	79	56	17	0	1	1	0	0	0	0	48	122
0100	0	0	1	3	25	52	30	7	1	1	0	0	0	0	0	47.6	67
0200	0	0	0	2	9	29	20	7	1	0	1	1	0	1	1	50.1	46
0300	0	0	0	0	11	23	15	3	1	0	0	0	0	0	0	47	34
0400	0	0	0	0	10	15	21	2	0	0	0	0	0	0	0	47.8	33
0500	0	0	0	0	14	28	25	12	0	2	0	0	0	0	0	50.5	56
0600	0	0	2	9	14	43	50	21	7	0	0	0	0	0	0	50.8	107
0700	0	0	0	6	50	74	76	34	10	1	1	0	0	0	0	50.7	175
0800	0	0	0	12	96	196	132	36	12	1	2	1	0	0	0	48.1	295
0900	0	0	0	20	163	288	204	58	11	1	0	0	0	0	0	48.1	436
1000	0	0	0	21	178	337	254	68	11	0	2	0	0	0	0	47.9	550
1100	0	0	1	44	351	498	239	38	5	2	1	0	0	0	0	45.3	543
1200	0	0	0	49	393	409	256	58	10	0	0	0	0	0	0	46	560
1300	0	0	0	65	465	567	236	33	6	0	1	0	0	0	0	44.6	572
1400	0	0	1	118	556	484	173	23	1	0	0	0	0	0	0	43.4	443
1500	0	0	1	86	538	527	189	37	4	1	0	0	0	0	0	44.1	500
1600	0	0	0	74	449	477	191	24	3	0	0	0	0	0	0	44.1	464
1700	0	0	0	53	329	434	220	49	8	1	0	0	0	0	0	45.3	497
1800	0	0	2	41	238	422	234	38	16	6	2	1	0	0	0	46.6	532
1900	0	0	1	15	169	325	199	58	13	0	1	0	0	0	0	48	452
2000	0	0	0	14	98	225	200	50	11	1	1	0	0	0	0	48.7	406
2100	0	0	0	10	70	149	136	39	16	0	0	0	0	0	0	49	280
2200	0	0	0	7	33	98	93	31	4	1	0	0	0	0	0	49.4	194
2300	0	0	0	3	32	60	55	12	7	1	0	0	0	0	0	48.4	112
<b>00-00</b>	<b>0</b>	<b>0</b>	<b>11</b>	<b>656</b>	<b>4324</b>	<b>5839</b>	<b>3304</b>	<b>755</b>	<b>158</b>	<b>20</b>	<b>13</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>46.3</b>	<b>7476</b>

Vehicles = 15085

Posted speed limit = 40 mph, Exceeding = 7476 (49.56%), Mean Exceeding = 45.12 mph

Maximum = 93.9 mph, Minimum = 18.9 mph, Mean = 40.3 mph

85% Speed = 46.30 mph, 95% Speed = 50.55 mph, Median = 39.93 mph

12 mph Pace = 33 - 45, Number in Pace = 10403 (68.96%)  
 Variance = 36.76, Standard Deviation = 6.06 mph

**Monday, May 17, 2021**

Time [--]	Vbin 6 12	Vbin 12 19	Vbin 19 25	Vbin 25 31	Vbin 31 37	Vbin 37 43	Vbin 43 50	Vbin 50 56	Vbin 56 62	Vbin 62 68	Vbin 68 75	Vbin 75 81	Vbin 81 87	Vbin 87 93	Vbin 93 99	Vpp 85	JPSL 40
0000	0	0	1	2	15	34	20	9	2	0	0	0	0	0	0	48.8	52
0100	0	0	0	2	7	14	16	7	2	4	1	0	0	0	0	55.3	39
0200	0	0	0	2	7	14	7	2	1	0	0	0	0	0	0	44.6	18
0300	0	0	0	2	3	16	16	6	1	0	0	1	0	0	0	50.3	34
0400	0	0	0	1	10	27	37	29	4	0	0	0	0	0	0	53.3	88
0500	0	0	0	2	26	75	75	42	9	2	0	0	0	0	0	52	172
0600	0	0	2	6	76	145	222	94	22	7	1	0	0	0	0	51.5	440
0700	0	0	2	27	198	328	300	87	14	1	0	0	0	0	0	48.4	600
0800	0	0	3	41	319	421	317	88	12	2	0	0	0	0	0	47.6	660
0900	0	1	5	35	242	367	267	93	16	0	1	0	0	0	0	48.4	576
1000	0	0	1	30	244	315	248	85	10	5	0	0	0	0	0	47.8	543
1100	0	1	1	38	251	453	312	64	12	2	0	0	0	0	0	47	645
1200	0	0	0	50	250	525	348	70	8	1	0	0	0	0	0	46.8	726
1300	0	0	1	41	321	477	288	60	15	2	0	0	0	0	0	46.5	654
1400	0	0	1	46	406	525	292	68	5	2	0	0	0	0	0	46	652
1500	0	0	0	60	479	590	307	67	11	4	0	0	0	0	0	46	697
1600	0	1	5	80	484	571	305	59	14	5	0	0	0	0	0	45.9	715
1700	3	3	11	90	437	629	371	70	9	2	0	0	0	0	0	46	810
1800	0	0	1	29	338	516	345	63	10	4	0	0	0	0	0	46.8	728
1900	0	0	0	37	197	401	307	115	17	3	0	0	0	0	0	48.9	689
2000	0	0	0	30	109	309	208	56	14	2	0	0	0	0	0	48.6	458
2100	0	0	1	12	92	231	182	41	7	7	2	2	0	0	0	47.9	386
2200	0	0	0	9	49	149	99	34	10	0	3	1	1	0	0	48.9	242
2300	0	0	0	2	17	84	68	26	3	0	0	1	0	0	0	49.7	160
<b>00-00</b>	<b>3</b>	<b>6</b>	<b>35</b>	<b>674</b>	<b>4577</b>	<b>7216</b>	<b>4957</b>	<b>1335</b>	<b>228</b>	<b>55</b>	<b>8</b>	<b>5</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>47.4</b>	<b>10784</b>

Vehicles = 19100

Posted speed limit = 40 mph, Exceeding = 10784 (56.46%), Mean Exceeding = 45.51 mph

Maximum = 84.0 mph, Minimum = 7.7 mph, Mean = 41.2 mph

85% Speed = 47.42 mph, 95% Speed = 51.79 mph, Median = 40.94 mph

12 mph Pace = 35 - 47, Number in Pace = 12942 (67.76%)

Variance = 39.20, Standard Deviation = 6.26 mph

**Tuesday, May 18, 2021**

Time [--]	Vbin 6 12	Vbin 12 19	Vbin 19 25	Vbin 25 31	Vbin 31 37	Vbin 37 43	Vbin 43 50	Vbin 50 56	Vbin 56 62	Vbin 62 68	Vbin 68 75	Vbin 75 81	Vbin 81 87	Vbin 87 93	Vbin 93 99	Vpp 85	JPSL 40
0000	0	0	1	3	9	30	35	10	2	0	0	0	0	0	0	49.5	61
0100	0	0	0	0	5	18	13	4	1	0	1	0	0	0	0	51	30
0200	0	0	0	2	4	12	5	0	2	1	0	0	0	0	0	48.6	15
0300	0	0	0	1	8	15	12	4	1	1	0	0	0	0	0	49.6	27
0400	0	0	0	0	8	29	29	26	6	2	0	0	0	0	0	52.6	79
0500	0	0	0	6	33	71	89	46	9	3	1	0	0	0	0	52.3	196
0600	0	0	1	8	76	152	198	88	21	3	0	1	0	0	0	50.9	408
0700	0	0	1	21	219	343	272	79	16	2	1	0	0	0	0	48.3	574
0800	0	0	2	36	324	491	337	73	15	5	1	0	0	0	0	47	714
0900	0	0	0	26	217	395	283	91	17	2	0	0	0	0	0	48.1	646
1000	0	0	1	44	233	399	292	76	13	1	0	0	0	0	0	47.6	628
1100	0	0	1	57	263	481	304	67	9	3	0	0	0	0	0	46.8	637
1200	0	0	2	53	345	531	330	70	17	0	2	0	0	0	0	46.5	698
1300	0	0	1	46	359	529	302	76	15	3	0	0	0	0	0	46.8	729
1400	1	4	6	86	487	541	266	43	7	3	0	0	0	0	0	45.1	617
1500	2	5	11	107	492	555	331	84	9	1	0	0	0	0	0	46.1	721
1600	2	2	5	103	488	573	270	68	11	6	0	0	0	0	0	45.6	660
1700	0	2	4	68	539	628	363	74	16	1	0	0	0	0	0	46.1	804
1800	0	0	0	56	408	546	301	100	17	3	0	0	0	0	0	47.1	723
1900	0	0	3	50	362	454	206	50	9	4	1	0	0	0	0	45.4	508
2000	0	0	1	20	171	383	227	56	15	3	2	0	0	0	0	47.2	531
2100	0	0	1	17	156	243	179	44	6	4	2	1	0	0	0	47.2	376
2200	0	0	0	13	47	159	109	33	7	2	0	0	0	0	0	48.3	246
2300	0	1	1	5	28	77	60	22	4	1	0	0	0	0	0	49.4	134
<b>00-00</b>	<b>5</b>	<b>14</b>	<b>42</b>	<b>828</b>	<b>5281</b>	<b>7655</b>	<b>4813</b>	<b>1284</b>	<b>245</b>	<b>54</b>	<b>11</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>47.1</b>	<b>10762</b>

Vehicles = 20235

Posted speed limit = 40 mph, Exceeding = 10762 (53.19%), Mean Exceeding = 45.40 mph

Maximum = 97.1 mph, Minimum = 8.8 mph, Mean = 40.8 mph

85% Speed = 47.09 mph, 95% Speed = 51.36 mph, Median = 40.49 mph

12 mph Pace = 34 - 46, Number in Pace = 13682 (67.62%)

Variance = 39.84, Standard Deviation = 6.31 mph

Wednesday, May 19, 2021

Time [--]	Vbin 6 12	Vbin 12 19	Vbin 19 25	Vbin 25 31	Vbin 31 37	Vbin 37 43	Vbin 43 50	Vbin 50 56	Vbin 56 62	Vbin 62 68	Vbin 68 75	Vbin 75 81	Vbin 81 87	Vbin 87 93	Vbin 93 99	Vpp 85	JPSL 40
0000	0	0	0	3	26	31	29	9	1	2	0	0	0	0	0	48.9	60
0100	0	0	0	1	10	19	13	9	3	1	0	0	0	0	0	51.7	35
0200	0	0	0	1	8	13	11	4	1	0	0	0	0	0	0	48.9	22
0300	0	0	1	0	2	19	18	4	2	1	0	0	0	0	0	50.6	38
0400	0	0	0	3	10	29	36	21	3	1	0	0	0	0	0	52.1	85
0500	0	0	0	2	39	87	71	36	6	1	1	0	0	0	0	50.4	164
0600	0	0	0	17	120	157	166	73	19	4	2	0	0	0	0	50.9	351
0700	0	0	0	41	256	366	235	68	15	1	0	0	0	0	0	47.3	553
0800	0	0	1	45	296	486	374	94	6	0	1	1	0	0	0	47.5	756
0900	0	0	0	30	249	380	317	77	12	3	0	0	0	0	0	48	623
1000	0	0	1	33	254	441	260	74	13	5	0	0	0	0	0	47.1	617
1100	0	1	2	58	347	507	264	75	10	3	1	1	0	0	0	46.9	649
1200	0	0	3	56	414	587	274	51	12	2	0	0	0	0	0	45.5	646
1300	0	0	3	92	440	541	269	61	7	0	0	0	0	0	0	45.6	629
1400	0	3	10	93	475	590	288	55	6	2	0	0	0	0	0	45.4	652
1500	0	0	2	74	536	699	309	59	9	1	0	0	0	0	0	45.3	728
1600	6	8	19	83	447	699	319	71	7	2	0	0	0	0	0	45.4	799
1700	0	0	1	96	515	593	392	106	22	2	1	0	0	0	0	46.9	849
1800	3	4	6	74	476	615	327	68	13	1	1	0	0	0	0	45.6	734
1900	0	0	1	38	250	441	294	89	12	4	2	0	0	0	0	47.4	676
2000	0	0	0	33	189	380	209	55	16	1	1	0	0	0	0	47	515
2100	0	0	0	26	134	259	174	63	9	4	4	0	0	0	0	48.5	415
2200	0	0	0	10	45	157	112	23	9	2	0	0	0	0	0	48.2	240
2300	0	0	0	2	34	93	73	26	9	0	0	0	0	0	0	49.5	174
<b>00-00</b>	<b>9</b>	<b>16</b>	<b>50</b>	<b>911</b>	<b>5572</b>	<b>8189</b>	<b>4834</b>	<b>1271</b>	<b>222</b>	<b>43</b>	<b>14</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>46.8</b>	<b>11010</b>

Vehicles = 21133

Posted speed limit = 40 mph, Exceeding = 11010 (52.10%), Mean Exceeding = 45.28 mph

Maximum = 75.5 mph, Minimum = 8.7 mph, Mean = 40.6 mph

85% Speed = 46.75 mph, 95% Speed = 51.15 mph, Median = 40.38 mph

12 mph Pace = 34 - 46, Number in Pace = 14344 (67.87%)

Variance = 39.25, Standard Deviation = 6.27 mph

Thursday, May 20, 2021

Time [--]	Vbin 6 12	Vbin 12 19	Vbin 19 25	Vbin 25 31	Vbin 31 37	Vbin 37 43	Vbin 43 50	Vbin 50 56	Vbin 56 62	Vbin 62 68	Vbin 68 75	Vbin 75 81	Vbin 81 87	Vbin 87 93	Vbin 93 99	Vpp 85	JPSL 40
0000	0	0	0	1	26	44	27	11	4	2	1	0	1	0	0	50	72
0100	0	0	0	1	9	21	19	5	0	0	0	0	0	0	0	48.6	38
0200	0	0	0	1	5	23	15	2	0	1	0	0	0	0	0	47	29
0300	0	0	0	1	6	19	19	2	2	0	0	0	0	0	0	48.3	32
0400	0	0	0	1	12	31	42	28	7	2	0	0	0	0	0	53	100
0500	0	0	0	2	46	69	81	27	3	1	0	0	0	0	0	49.5	141
0600	0	0	0	6	77	156	208	88	23	3	0	1	0	0	0	51.4	416
0700	0	0	2	31	196	350	320	101	17	5	0	0	0	0	0	48.9	650
0800	0	0	0	51	326	534	362	74	10	0	0	0	0	0	0	46.9	763
0900	0	0	1	38	286	388	285	73	11	1	0	0	0	0	0	47.3	601
1000	0	1	0	23	311	395	264	74	6	1	1	0	0	0	0	47.1	564
1100	0	0	2	37	337	513	270	69	6	0	0	0	0	0	0	46.1	630
1200	0	0	1	55	363	529	285	52	5	4	0	0	0	0	0	46.1	644
1300	0	0	1	49	372	562	339	57	8	1	0	0	0	0	0	46.4	705
1400	0	0	0	76	500	540	247	56	5	0	0	0	0	0	0	45	583
1500	0	0	5	62	495	726	313	78	13	1	1	0	0	0	0	45.5	824
1600	0	0	2	81	549	626	294	84	10	1	0	0	0	0	0	45.9	740
1700	1	9	24	103	498	641	384	98	10	1	0	0	0	0	0	46.3	854
1800	0	1	1	75	425	609	377	85	14	2	0	3	0	0	0	46.4	808
1900	0	0	0	64	369	471	244	64	16	5	1	0	0	0	0	46.2	595
2000	0	0	0	27	229	402	243	59	9	3	0	0	1	0	1	47.2	543
2100	0	0	1	28	183	321	169	51	8	4	1	0	0	0	0	46.6	438
2200	0	0	0	5	60	167	138	34	10	1	0	0	0	0	0	48.3	290
2300	0	1	0	9	26	82	77	29	6	1	1	1	0	0	0	50	164
<b>00-00</b>	<b>1</b>	<b>12</b>	<b>40</b>	<b>827</b>	<b>5706</b>	<b>8219</b>	<b>5022</b>	<b>1301</b>	<b>203</b>	<b>40</b>	<b>6</b>	<b>5</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>46.9</b>	<b>11224</b>

Vehicles = 21385

Posted speed limit = 40 mph, Exceeding = 11224 (52.49%), Mean Exceeding = 45.28 mph

Maximum = 94.5 mph, Minimum = 9.4 mph, Mean = 40.7 mph

85% Speed = 46.86 mph, 95% Speed = 51.00 mph, Median = 40.38 mph

12 mph Pace = 34 - 46, Number in Pace = 14600 (68.27%)

Variance = 37.82, Standard Deviation = 6.15 mph

Friday, May 21, 2021



Time [--]	Vbin 6 12	Vbin 12 19	Vbin 19 25	Vbin 25 31	Vbin 31 37	Vbin 37 43	Vbin 43 50	Vbin 50 56	Vbin 56 62	Vbin 62 68	Vbin 68 75	Vbin 75 81	Vbin 81 87	Vbin 87 93	Vbin 93 99	Vpp 85	JPSL 40
0000	0	0	0	7	26	52	30	15	1	0	0	0	0	0	0	48.4	80
0100	0	0	0	2	13	23	13	9	3	3	0	0	0	0	0	53.3	44
0200	0	0	0	2	5	14	13	3	1	0	0	0	0	0	0	47.9	23
0300	0	0	0	1	8	9	17	6	3	1	0	0	0	0	0	54.2	32
0400	0	0	0	1	14	29	46	18	4	0	0	1	0	0	0	51.4	85
0500	0	0	0	2	25	83	89	46	14	3	0	1	0	0	0	52.2	217
0600	0	0	0	6	56	162	216	78	20	3	2	0	0	0	0	50.9	418
0700	0	0	0	38	233	334	252	106	20	4	1	1	0	0	0	49.1	589
0800	0	1	3	47	347	563	345	58	9	2	0	0	0	0	0	46.1	764
0900	0	0	0	42	260	450	272	61	11	0	0	0	0	0	0	46.9	621
1000	0	0	1	21	283	459	276	79	16	4	1	0	0	0	0	47.3	649
1100	1	0	3	64	406	489	252	45	1	1	0	0	0	0	0	45.2	566
1200	0	0	5	57	517	650	312	47	6	0	1	0	0	0	0	45.2	715
1300	0	0	0	51	451	646	297	53	8	0	0	1	0	0	0	45.3	695
1400	2	0	0	101	579	571	295	52	5	1	0	0	0	0	0	45.3	623
1500	0	4	0	97	566	654	283	60	5	0	0	0	0	0	0	44.9	657
1600	6	4	3	75	553	639	309	64	6	0	0	0	0	0	0	45.3	702
1700	3	20	31	119	443	560	288	62	5	0	0	0	0	0	0	45.2	643
1800	1	4	8	74	404	445	249	55	10	1	0	0	0	0	0	46.1	552
1900	2	17	5	81	351	335	115	30	3	2	1	0	0	0	0	44	309
2000	0	0	2	29	244	296	184	31	10	0	0	0	0	0	0	46.3	375
2100	0	1	2	19	178	290	125	29	7	2	0	0	0	0	0	45.7	312
2200	0	0	0	8	114	174	104	38	5	2	0	0	0	0	0	47.7	257
2300	2	1	3	10	50	132	101	21	3	0	0	0	0	0	0	47.2	207
<b>00-00</b>	<b>17</b>	<b>52</b>	<b>66</b>	<b>954</b>	<b>6126</b>	<b>8059</b>	<b>4483</b>	<b>1066</b>	<b>176</b>	<b>29</b>	<b>6</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>46.2</b>	<b>10135</b>

Vehicles = 21038  
 Posted speed limit = 40 mph, Exceeding = 10135 (48.17%), Mean Exceeding = 45.07 mph  
 Maximum = 78.8 mph, Minimum = 7.1 mph, Mean = 40.0 mph  
 85% Speed = 46.19 mph, 95% Speed = 50.44 mph, Median = 39.71 mph  
 12 mph Pace = 34 - 46, Number in Pace = 14485 (68.85%)  
 Variance = 38.76, Standard Deviation = 6.23 mph

**Saturday, May 22, 2021**

Time [--]	Vbin 6 12	Vbin 12 19	Vbin 19 25	Vbin 25 31	Vbin 31 37	Vbin 37 43	Vbin 43 50	Vbin 50 56	Vbin 56 62	Vbin 62 68	Vbin 68 75	Vbin 75 81	Vbin 81 87	Vbin 87 93	Vbin 93 99	Vpp 85	JPSL 40
0000	0	0	0	6	40	78	46	14	4	0	0	0	0	0	0	48.3	111
0100	0	0	1	4	19	33	28	8	1	0	0	0	0	0	0	47.6	59
0200	0	0	1	5	13	28	18	5	2	0	0	0	0	0	0	46.4	45
0300	0	0	0	1	15	15	9	2	4	0	0	0	0	0	0	48	25
0400	0	0	0	0	2	10	12	3	3	1	0	0	0	0	0	54	27
<b>00-00</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>16</b>	<b>89</b>	<b>164</b>	<b>113</b>	<b>32</b>	<b>14</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>48.2</b>	<b>267</b>

Vehicles = 431  
 Posted speed limit = 40 mph, Exceeding = 267 (61.95%), Mean Exceeding = 45.71 mph  
 Maximum = 62.1 mph, Minimum = 20.9 mph, Mean = 41.9 mph  
 85% Speed = 48.21 mph, 95% Speed = 54.04 mph, Median = 41.72 mph  
 12 mph Pace = 35 - 47, Number in Pace = 295 (68.45%)  
 Variance = 42.23, Standard Deviation = 6.50 mph

**Grand Total**

Time [--]	Vbin 6 12	Vbin 12 19	Vbin 19 25	Vbin 25 31	Vbin 31 37	Vbin 37 43	Vbin 43 50	Vbin 50 56	Vbin 56 62	Vbin 62 68	Vbin 68 75	Vbin 75 81	Vbin 81 87	Vbin 87 93	Vbin 93 99	Vpp 85	JPSL 40
--	35	103	264	5636	36654	52676	32020	8186	1471	277	63	22	4	0	3	46.9	71705

Vehicles = 137414  
 Posted speed limit = 40 mph, Exceeding = 71705 (52.18%), Mean Exceeding = 45.29 mph  
 Maximum = 97.1 mph, Minimum = 7.1 mph, Mean = 40.6 mph  
 85% Speed = 46.86 mph, 95% Speed = 51.11 mph, Median = 40.38 mph  
 12 mph Pace = 34 - 46, Number in Pace = 93343 (67.93%)  
 Variance = 38.69, Standard Deviation = 6.22 mph

ATTACHMENT

**E**

SimTraffic Worksheets

Queuing and Blocking Report  
Existing Conditions - AM Peak Hour

06/18/2021

Intersection: 1: I-270 Ramp/Tower Oaks Boulevard & Montrose Road

Movement	EB	EB	EB	WB	WB	WB	WB	SB	SB	SB	SB
Directions Served	L	T	T	T	T	T	R	L	L	R	R
Maximum Queue (ft)	131	370	445	380	352	285	57	199	971	1200	275
Average Queue (ft)	50	208	217	234	180	90	22	88	303	760	273
95th Queue (ft)	103	334	367	350	316	190	49	184	874	1187	281
Link Distance (ft)		3316	3316	598	598	598			1226	1226	
Upstream Blk Time (%)									4	7	
Queuing Penalty (veh)									0	0	
Storage Bay Dist (ft)	425						400	375			250
Storage Blk Time (%)		0							0	55	52
Queuing Penalty (veh)		0							0	214	201

Intersection: 2: Montrose Road & North Farm Lane

Movement	EB	EB	EB	WB	WB	WB
Directions Served	T	T	T	T	T	TR
Maximum Queue (ft)	398	391	403	263	226	142
Average Queue (ft)	64	69	70	43	35	20
95th Queue (ft)	275	290	290	182	152	91
Link Distance (ft)	598	598	598	671	671	671
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)						
Storage Blk Time (%)						
Queuing Penalty (veh)						

Network Summary

Network wide Queuing Penalty: 415
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Queuing and Blocking Report  
Existing Conditions - PM Peak Hour

06/18/2021

Intersection: 1: I-270 Ramp/Tower Oaks Boulevard & Montrose Road

Movement	EB	EB	EB	WB	WB	WB	WB	SB	SB	SB	SB
Directions Served	L	T	T	T	T	T	R	L	L	R	R
Maximum Queue (ft)	211	246	273	602	590	574	423	138	155	339	275
Average Queue (ft)	119	128	135	335	314	279	81	41	94	243	180
95th Queue (ft)	194	223	232	577	563	529	298	104	144	329	354
Link Distance (ft)		3309	3309	598	598	598			1236	1236	
Upstream Blk Time (%)				0	0	1					
Queuing Penalty (veh)				2	1	8					
Storage Bay Dist (ft)	425						400	375			250
Storage Blk Time (%)							3	0		6	1
Queuing Penalty (veh)							5	0		14	3

Intersection: 2: Montrose Road & North Farm Lane

Movement	EB	EB	EB	WB	WB	WB
Directions Served	T	T	T	T	T	TR
Maximum Queue (ft)	301	310	306	561	493	445
Average Queue (ft)	86	93	96	195	171	135
95th Queue (ft)	246	259	264	510	458	385
Link Distance (ft)	598	598	598	671	671	671
Upstream Blk Time (%)				1	0	0
Queuing Penalty (veh)				0	0	0
Storage Bay Dist (ft)						
Storage Blk Time (%)						
Queuing Penalty (veh)						

Network Summary

Network wide Queuing Penalty: 34

Queuing and Blocking Report  
Proposed Conditions - AM Peak Hour

06/18/2021

Intersection: 1: I-270 Ramp/Tower Oaks Boulevard & Montrose Road

Movement	EB	EB	EB	WB	WB	WB	WB	NB	SB	SB	SB
Directions Served	L	T	T	T	T	T	R	R	L	R	R
Maximum Queue (ft)	121	197	229	381	366	354	269	17	298	441	275
Average Queue (ft)	60	29	36	319	286	208	44	1	161	281	222
95th Queue (ft)	107	121	139	406	385	336	149	12	262	393	370
Link Distance (ft)		3325	3325	322	322	322		309	1237	1237	
Upstream Blk Time (%)				8	3	1	0				
Queuing Penalty (veh)				56	18	5	0				
Storage Bay Dist (ft)	425						400				250
Storage Blk Time (%)							1	0		11	3
Queuing Penalty (veh)							1	0		42	10

Intersection: 2: Montrose Road & North Farm Lane

Movement	EB	EB	EB	WB	WB	WB
Directions Served	T	T	T	T	T	TR
Maximum Queue (ft)	302	298	311	273	256	176
Average Queue (ft)	52	63	69	45	34	18
95th Queue (ft)	225	258	273	189	151	90
Link Distance (ft)	244	244	244	671	671	671
Upstream Blk Time (%)	2	3	5			
Queuing Penalty (veh)	19	39	59			
Storage Bay Dist (ft)						
Storage Blk Time (%)						
Queuing Penalty (veh)						

Intersection: 8: Montrose Road

Movement	EB	EB	EB	EB	WB	WB	WB
Directions Served	T	T	T	T	T	T	T
Maximum Queue (ft)	201	245	274	295	156	95	40
Average Queue (ft)	18	52	92	102	17	6	2
95th Queue (ft)	107	180	207	226	91	61	29
Link Distance (ft)	322	322	322	322	244	244	244
Upstream Blk Time (%)	0	0	0	0	0	0	0
Queuing Penalty (veh)	0	1	1	4	1	0	
Storage Bay Dist (ft)							
Storage Blk Time (%)							
Queuing Penalty (veh)							

Network Summary

Network wide Queuing Penalty: 254

Queuing and Blocking Report  
Proposed Conditions - PM Peak Hour

06/18/2021

Intersection: 1: I-270 Ramp/Tower Oaks Boulevard & Montrose Road

Movement	EB	EB	WB	WB	WB	WB	SB	SB	SB
Directions Served	L	T	T	T	T	R	L	R	R
Maximum Queue (ft)	239	4	408	386	395	322	232	329	275
Average Queue (ft)	129	0	335	324	298	109	129	236	143
95th Queue (ft)	211	3	459	455	439	319	207	321	337
Link Distance (ft)		3322	322	322	322		1238	1238	
Upstream Blk Time (%)			19	14	10	0			
Queuing Penalty (veh)			187	143	98	0			
Storage Bay Dist (ft)	425					400			250
Storage Blk Time (%)					10	0		4	0
Queuing Penalty (veh)					18	3		9	1

Intersection: 2: Montrose Road & North Farm Lane

Movement	EB	EB	EB	WB	WB	WB
Directions Served	T	T	T	T	T	TR
Maximum Queue (ft)	248	270	303	551	518	402
Average Queue (ft)	82	128	164	256	226	167
95th Queue (ft)	210	306	373	571	518	396
Link Distance (ft)	244	244	244	671	671	671
Upstream Blk Time (%)	0	1	5	0	0	
Queuing Penalty (veh)	0	6	39	0	0	
Storage Bay Dist (ft)						
Storage Blk Time (%)						
Queuing Penalty (veh)						

Intersection: 8: Montrose Road

Movement	EB	EB	EB	EB	WB	WB	WB
Directions Served	T	T	T	T	T	T	T
Maximum Queue (ft)	10	15	93	81	311	309	294
Average Queue (ft)	0	1	15	15	99	85	62
95th Queue (ft)	7	11	57	53	281	267	228
Link Distance (ft)	322	322	322	322	244	244	244
Upstream Blk Time (%)					4	2	2
Queuing Penalty (veh)					40	24	19
Storage Bay Dist (ft)							
Storage Blk Time (%)							
Queuing Penalty (veh)							

Network Summary

Network wide Queuing Penalty: 588

ATTACHMENT

**F**

Crash Data





ATTACHMENT

G

Crash Modification Factors



## CRASH MODIFICATION FACTORS CLEARINGHOUSE

### CMF / CRF DETAILS

CMF ID: 8655

#### CONVERT A T INTERSECTION INTO A CONTINUOUS GREEN T INTERSECTION

DESCRIPTION: THE CONTINUOUS GREEN T INTERSECTION IS CHARACTERIZED BY A CHANNELIZED LEFT-TURN MOVEMENT FROM THE MINOR STREET APPROACH ONTO THE MAJOR STREET, ALONG WITH A CONTINUOUS THROUGH MOVEMENT ON THE MAJOR STREET. THE CONTINUOUS FLOW THROUGH MOVEMENT IS NOT CONTROLLED BY THE THREE-PHASE TRAFFIC SIGNAL THAT IS USED TO SEPARATE ALL OTHER MOVEMENTS AT THE INTERSECTION. RATHER, THE CONTINUOUS THROUGH MOVEMENT HAS A GREEN THROUGH ARROW INDICATOR TO INFORM DRIVERS THAT THEY DO NOT HAVE TO STOP.

PRIOR CONDITION: SIGNALIZED T INTERSECTION

CATEGORY: INTERSECTION GEOMETRY

STUDY: [SAFETY EVALUATION OF CONTINUOUS GREEN T INTERSECTIONS: A PROPENSITY SCORES-GENETIC MATCHING-POTENTIAL OUTCOMES APPROACH, WOOD AND DONN](#)

Star Quality Rating: [VIEW SCORE DETAILS]

Rating Points Total: 105

#### Crash Modification Factor (CMF)

Value: 0.958

Adjusted Standard Error:

Unadjusted Standard Error: 0.106

#### Crash Reduction Factor (CRF)

Value: 4.2 (This value indicates a decrease in crashes)

Adjusted Standard Error:

Unadjusted Standard Error: 10.6

#### Applicability

Crash Type: All

Crash Severity: All

Roadway Types: Not specified

Number of Lanes: 2-8

Road Division Type:

Speed Limit: 15-60

Area Type:

Traffic Volume:

Average Traffic Volume:

Time of Day: All

*If countermeasure is intersection-based*

Intersection Type: Roadway/roadway (not interchange related)

Intersection Geometry: 3-leg

Traffic Control: Signalized

Major Road Traffic Volume: Minimum of 8300 to Maximum of 59000 Annual Average Daily Traffic (AADT)

Minor Road Traffic Volume: Minimum of 500 to Maximum of 40000 Annual Average Daily Traffic (AADT)

Average Major Road Volume : 30951 Annual Average Daily Traffic (AADT)

Average Minor Road Volume : 9421 Annual Average Daily Traffic (AADT)

## Development Details

Date Range of Data Used: 2008 to 2013

Municipality:

State: FL, SC

Country: USA

Type of Methodology Used: 7

Sample Size (crashes): 2339 crashes

Sample Size (sites): 60 sites

Sample Size (site-years): 297 site-years

## Other Details

Included in Highway Safety Manual? No

Date Added to Clearinghouse: Nov-06-2017

Comments: The study used weighted negative binomial regression with the genetic matched data.

[VIEW THE FULL STUDY DATA](#)[EXPORT DETAIL PAGE AS A P](#)

This site is funded by the U.S. Department of Transportation Federal Highway Administration and maintained by the University of North Carolina Highway Safety Research Center

For more information, contact Karen Scurry at karen.scurry@dot.gov

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## CRASH MODIFICATION FACTORS CLEARINGHOUSE

### CMF / CRF DETAILS

CMF ID: 8656

#### CONVERT A T INTERSECTION INTO A CONTINUOUS GREEN T INTERSECTION

DESCRIPTION: THE CONTINUOUS GREEN T INTERSECTION IS CHARACTERIZED BY A CHANNELIZED LEFT-TURN MOVEMENT FROM THE MINOR STREET APPROACH ONTO THE MAJOR STREET, ALONG WITH A CONTINUOUS THROUGH MOVEMENT ON THE MAJOR STREET. THE CONTINUOUS THROUGH MOVEMENT IS NOT CONTROLLED BY THE THREE-PHASE TRAFFIC SIGNAL THAT IS USED TO SEPARATE ALL OTHER MOVEMENTS AT THE INTERSECTION. RATHER, THE CONTINUOUS THROUGH MOVEMENT HAS A GREEN THROUGH ARROW INDICATOR TO INFORM DRIVERS THAT THEY DO NOT HAVE TO STOP.

PRIOR CONDITION: SIGNALIZED T INTERSECTION

CATEGORY: INTERSECTION GEOMETRY

STUDY: [SAFETY EVALUATION OF CONTINUOUS GREEN T INTERSECTIONS: A PROPENSITY SCORES-GENETIC MATCHING-POTENTIAL OUTCOMES APPROACH, WOOD AND DONN](#)

Star Quality Rating: [VIEW SCORE DETAILS]

Rating Points Total: 95

#### Crash Modification Factor (CMF)

Value: 0.846

Adjusted Standard Error:

Unadjusted Standard Error: 0.114

#### Crash Reduction Factor (CRF)

Value: 15.4 *(This value indicates a decrease in crashes)*

Adjusted Standard Error:

Unadjusted Standard Error: 11.4

#### Applicability

Crash Type: All

Crash Severity: K (fatal),A (serious injury),B (minor injury),C (possible injury)

Roadway Types: Not specified

Number of Lanes: 2-8

Road Division Type:

Speed Limit: 15-60

Area Type:

Traffic Volume:

Average Traffic Volume:

Time of Day: All

*If countermeasure is intersection-based*

Intersection Type: Roadway/roadway (not interchange related)

Intersection Geometry: 3-leg

Traffic Control: Signalized

Major Road Traffic Volume: Minimum of 8300 to Maximum of 59000 Annual Average Daily Traffic (AADT)

Minor Road Traffic Volume: Minimum of 500 to Maximum of 40000 Annual Average Daily Traffic (AADT)

Average Major Road Volume : 30951 Annual Average Daily Traffic (AADT)

Average Minor Road Volume : 9421 Annual Average Daily Traffic (AADT)

## Development Details

Date Range of Data Used: 2008 to 2013

Municipality:

State: FL, SC

Country: USA

Type of Methodology Used: 7

Sample Size (crashes): 848 crashes

Sample Size (sites): 60 sites

Sample Size (site-years): 297 site-years

## Other Details

Included in Highway Safety Manual? No

Date Added to Clearinghouse: Nov-06-2017

Comments: The study used weighted negative binomial regression with the genetic matched data.

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