



August 2018
Revised October 2018

CITY OF ALBUQUERQUE
9TH ST - MONTAÑO RD TO
DOUGLAS MACARTHUR RD
SPEED STUDY
NTMP P803000
TASK 2.5



WILSON
& COMPANY
ENGINEERS & ARCHITECTS

City of Albuquerque

**9th Street -
Montaño Road to Douglas MacArthur Road**

SPEED STUDY

NTMP P803000
NTP #3 - Task 2.5
WCI 1810002203

August 2018
Revised **October 2018**



October 29, 2018



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Appendix A – Traffic Data

Introduction

This report documents the speed study analysis on 9th Street from Montañó Road to Douglas MacArthur Road in Albuquerque, New Mexico. The purpose of this project is to collect and analyze the traffic volumes, speed, and safety of 9th Street, a two-way street, from Montañó Road to Douglas MacArthur Road to determine if it meets the traffic calming criterion described in the *City of Albuquerque (COA) Neighborhood Traffic Management Program (NTMP)*, February 2015, and the *Institute of Transportation Engineers (ITE) Traffic Engineering Handbook*, 6th Edition.

Project Area and Background

The 9th Street project is located in Albuquerque, New Mexico and is approximately 0.19 miles (989 feet) in length. 9th Street is a two-lane, undivided local street that runs north-south, from Montañó Road to Douglas MacArthur Road. Montañó Road is a four-lane, divided principal arterial street with two-way left turn lanes that runs east-west and intersects the north end of 9th Street at a T-intersection with partial access (right out only). Douglas MacArthur Road is a two-lane, undivided local street that runs east-west and intersects the south end of 9th Street at a T-intersection. The existing MacArthur Early Head Start and Child Development Center and MacArthur Elementary School is located a block west of 9th Street and Douglas MacArthur Road, See **Figure 1** for a map of the project area.



Figure 1: Project Area and Existing Traffic Volumes

Task 2.5: 9th Street from Montañó Road to Douglas MacArthur Road

A request has been made to the City of Albuquerque to determine if traffic calming is appropriate for this location. Wilson & Company was tasked by the City of Albuquerque to determine if 9th Street from Montañó Road to Douglas MacArthur Road warrants traffic calming measures.

Existing Conditions

Traffic Conditions

9th Street is an urban local collector road with an Average Daily Traffic (ADT) of 223 vehicles, which includes less than 1% heavy vehicles (buses and trucks), and an existing speed limit of 25 mph. See [Appendix A](#) for further information.

Traffic Volumes

Existing tube count data (volume, speed, and class) was collected for 48-hours on Tuesday, June 12, 2018 and Wednesday, June 13, 2018. See [Figure 1](#) for the peak hour volumes. The full traffic count data can be found in [Appendix A](#).

Additional tube count data (volume, speed, and class) was collected for 96-hours on Tuesday, August 21, 2018 through Friday, August 24, 2018 to determine peak hour volumes while school was in session. See [Figure 1](#) for the peak hour volumes. The full traffic count data can be found in [Appendix A](#).

Safety

Crash Data

Historical crash data was provided by the City of Albuquerque. Three years (2017, 2016, and 2015) of crash data were obtained to evaluate the existing safety condition of 9th Street from Montañó Road to Douglas MacArthur Road. See [Table 1](#) for a crash summary.

Table 1: Crash Summary

Crash Date	Crash Intersecting Street	Crash Primary Street	Crash Analysis	Severity	Contributing Factors	Crash Correct with Traffic Calming
6/11/2015	9 th Street NW	Montano Road NW	Both Going Straight/Entering At Angle	Injury	Driver inattention, Improper lane change	No
9/13/2015	9 th Street NW	Douglas Macarthur Road NW	Vehicle Parked In Proper Location	Damage 500 or more	Driver inattention	No
12/13/2017	9 th Street NW	Montano Road NW	Rear End Collision/Same Direction	Injury	Driver inattention, Improper lane change	No

Crash Analysis

The following observations were concluded from the review of the three years (2017, 2016, and 2015) of crash data (3 total crashes) in the project limits:

- All three crashes occurred in clear conditions;
- One of the three crashes resulted in property damage;
- Two of the three crashes resulted in non-fatal injury; and
- All three crashes occurred during the day.

Task 2.5: 9th Street from Montañó Road to Douglas MacArthur Road

Speed

Speed data was collected on 9th Street for a 48-hour period during the summer and a 96-hour period during the school year. See **Table 2** for the 85th-Percentile speeds for 9th Street.

Table 2: 85th-Percentile Speed

Location	85 th -Percentile Speed	
	Summer	School Year
Southbound	26 mph	28 mph
Northbound	29 mph	26 mph

See **Table 3** for the 10 mph pace speeds for 9th Street.

Table 3: 10 mph Pace Speed

Location	10 mph Pace Speed	
	Summer	School Year
Eastbound	16-25 mph	16-25 mph
Westbound	16-25 mph	16-25 mph

Speed data can be found in the traffic counts located in **Appendix A**. The 85th-percentile speed does not exceed the posted speed limit by 5 mph or more (25 mph) for both westbound and eastbound 9th Street during the summer and school year.

Typical Sections

9th Street is a 28-ft wide roadway with curb and gutter, and 3-ft wide sidewalks. On-street parking is also available on both sides of the roadway. See **Figure 3** and **4** for photos of the existing 9th Street, and **Figure 5** for the existing typical section along 9th Street.



Figure 2: 9th Street Speed Limit

Task 2.5: 9th Street from Montañó Road to Douglas MacArthur Road



Figure 3: 9th Street looking south



Figure 4: 9th Street looking north

Task 2.5: 9th Street from Montañó Road to Douglas MacArthur Road

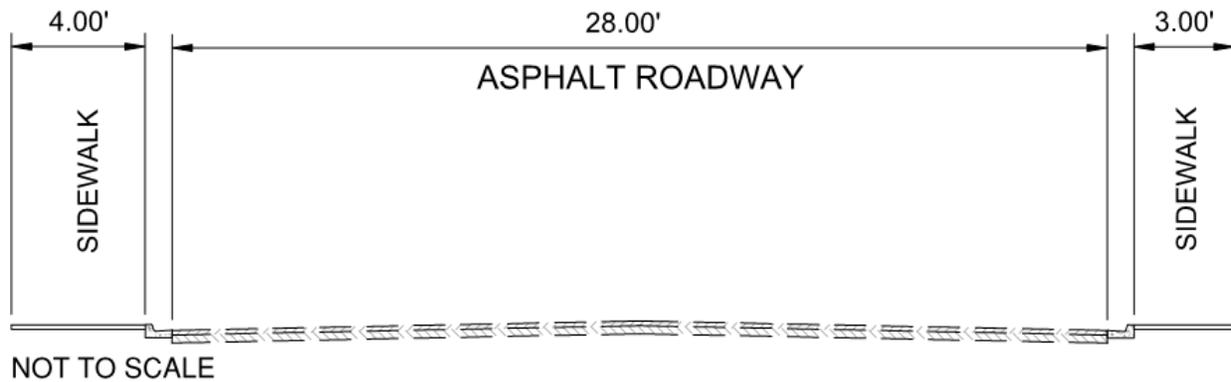


Figure 5: 9th Street Existing Typical Section

NTMP Traffic Calming Criteria

In order to meet the traffic calming criterion described in the *COA NTMP*, two or more of the following threshold criteria must be met:

1. Reported crashes in the past 3 years that could be corrected with traffic calming
2. Peak-hour traffic volume greater than 400 vehicles in one direction
3. 25 percent of peak-hour traffic is non-local cut-through traffic
4. 85th-percentile speed exceeds the posted speed limit by 5 mph or more

Summary of Results

Out of the three crashes that were reported in the past 3 years, none of them could have been corrected with traffic calming. The peak-hour traffic volumes for 9th Street were less than 400 vehicles for both northbound and southbound directions. The 85th-percentile speed does not exceed the posted speed limit by 5mph. See [Table 4](#) for the summary of results for 9th Street from Montañó Road to Douglas MacArthur Road.

Table 4: Summary of Results

COA NMTP Threshold Criteria	Warranted?
1. Reported crashes in the past 3 years that could be corrected with traffic calming	No
2. Peak-hour traffic volume greater than 400 vehicles in one direction	No
3. 25 percent of peak-hour traffic is non-local cut-through traffic	Not studied
4. 85 th -percentile speed exceeds the posted speed limit by 5 mph or more	No

Recommendations

After analyzing the crash, volume, and speed data, it was determined that 9th Street from Montañó Road to Douglas MacArthur Road meets none of the four (4) criteria and, therefore, **does not** meet the minimum traffic calming criterion as described in the *COA NTMP* at this time.

Appendix A – Traffic Data

Wilson & Company
 4401 Masthead Street NE, Suite 150
 Albuquerque NM, 87109

Site Code: NINTH ST NW.
 Station ID:

Latitude: 0' 0.0000 Undefined

Start Time	11-Jun-18		Tue		Wed		Thu		Fri		Sat		Sun		Week Average	
	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB
12:00 AM	*	*	1	0	0	0	*	*	*	*	*	*	*	*	0	0
01:00	*	*	1	0	0	0	*	*	*	*	*	*	*	*	0	0
02:00	*	*	1	0	2	0	*	*	*	*	*	*	*	*	2	0
03:00	*	*	0	1	1	0	*	*	*	*	*	*	*	*	0	0
04:00	*	*	1	0	0	0	*	*	*	*	*	*	*	*	0	0
05:00	*	*	3	2	3	1	*	*	*	*	*	*	*	*	3	2
06:00	*	*	6	1	6	1	*	*	*	*	*	*	*	*	6	1
07:00	*	*	4	7	3	6	*	*	*	*	*	*	*	*	4	6
08:00	*	*	6	3	5	1	*	*	*	*	*	*	*	*	6	2
09:00	*	*	3	2	12	4	*	*	*	*	*	*	*	*	8	3
10:00	*	*	13	4	7	0	*	*	*	*	*	*	*	*	10	2
11:00	*	*	5	1	8	4	*	*	*	*	*	*	*	*	6	2
12:00 PM	*	*	15	5	17	2	*	*	*	*	*	*	*	*	16	4
01:00	*	*	7	3	11	3	*	*	*	*	*	*	*	*	9	3
02:00	*	*	9	3	6	2	*	*	*	*	*	*	*	*	8	2
03:00	*	*	6	3	12	2	*	*	*	*	*	*	*	*	9	2
04:00	*	*	10	4	14	1	*	*	*	*	*	*	*	*	12	2
05:00	*	*	9	2	14	1	*	*	*	*	*	*	*	*	12	2
06:00	*	*	10	3	7	2	*	*	*	*	*	*	*	*	8	2
07:00	*	*	4	1	5	0	*	*	*	*	*	*	*	*	4	0
08:00	*	*	4	0	1	2	*	*	*	*	*	*	*	*	2	1
09:00	*	*	5	0	5	4	*	*	*	*	*	*	*	*	5	2
10:00	*	*	5	2	3	2	*	*	*	*	*	*	*	*	4	2
11:00	*	*	1	0	3	0	*	*	*	*	*	*	*	*	2	0
Lane Day	0	0	129	47	145	38	0	0	0	0	0	0	0	0	136	40
AM Peak	-	-	10:00	07:00	09:00	07:00	-	-	-	-	-	-	-	-	10:00	07:00
Vol.	-	-	13	7	12	6	-	-	-	-	-	-	-	-	10	6
PM Peak	-	-	12:00	12:00	12:00	21:00	-	-	-	-	-	-	-	-	12:00	12:00
Vol.	-	-	15	5	17	4	-	-	-	-	-	-	-	-	16	4

Comb. Total	0	176	183	0	0	0	0	176
ADT	ADT 180	AADT 180						

Site Code: NINTH 2
 Station ID:

Latitude: 0' 0.0000 South

NB

Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Number in Pace
06/13/18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
02:00	0	0	1	0	1	0	0	0	0	0	0	0	0	0	2	14-23	1
03:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	19-28	1
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
05:00	0	0	1	1	1	0	0	0	0	0	0	0	0	0	3	19-28	2
06:00	3	1	0	1	1	0	0	0	0	0	0	0	0	0	6	26-35	2
07:00	0	0	0	3	0	0	0	0	0	0	0	0	0	0	3	21-30	3
08:00	0	3	1	1	0	0	0	0	0	0	0	0	0	0	5	16-25	4
09:00	0	3	5	3	1	0	0	0	0	0	0	0	0	0	12	16-25	8
10:00	1	0	3	1	1	1	0	0	0	0	0	0	0	0	7	21-30	4
11:00	1	2	3	1	1	0	0	0	0	0	0	0	0	0	8	16-25	5
12 PM	2	6	5	3	1	0	0	0	0	0	0	0	0	0	17	16-25	11
13:00	1	2	6	2	0	0	0	0	0	0	0	0	0	0	11	21-30	8
14:00	0	0	4	2	0	0	0	0	0	0	0	0	0	0	6	20-29	6
15:00	0	5	3	2	1	1	0	0	0	0	0	0	0	0	12	16-25	8
16:00	3	5	3	2	1	0	0	0	0	0	0	0	0	0	14	15-24	8
17:00	0	3	4	5	1	0	1	0	0	0	0	0	0	0	14	21-30	9
18:00	1	0	2	3	1	0	0	0	0	0	0	0	0	0	7	21-30	5
19:00	1	2	1	1	0	0	0	0	0	0	0	0	0	0	5	16-25	3
20:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	*	1
21:00	0	2	1	1	1	0	0	0	0	0	0	0	0	0	5	16-25	3
22:00	0	2	1	0	0	0	0	0	0	0	0	0	0	0	3	14-23	3
23:00	1	0	0	1	1	0	0	0	0	0	0	0	0	0	3	24-33	2
Total	15	36	44	34	13	2	1	0	145								
Percent	10.3%	24.8%	30.3%	23.4%	9.0%	1.4%	0.7%	0.0%									
AM Peak	06:00	08:00	09:00	07:00	02:00	10:00										09:00	
Vol.	3	3	5	3	1	1										12	
PM Peak	16:00	12:00	13:00	17:00	12:00	15:00	17:00									12:00	
Vol.	3	6	6	5	1	1	1									17	
Total	26	70	86	60	28	3	1	0	274								
Percent	9.5%	25.5%	31.4%	21.9%	10.2%	1.1%	0.4%	0.0%									

15th Percentile : 16 MPH
 50th Percentile : 22 MPH
 85th Percentile : 29 MPH
 95th Percentile : 33 MPH

Stats
 10 MPH Pace Speed : 16-25 MPH
 Number in Pace : 156
 Percent in Pace : 56.9%
 Number of Vehicles > 25 MPH : 92
 Percent of Vehicles > 25 MPH : 33.6%
 Mean Speed(Average) : 23 MPH

Wilson & Company
 4401 Masthead Street NE, Suite 150
 Albuquerque NM, 87109

Site Code: NINTH 2
 Station ID:

Latitude: 0' 0.0000 South

SB

Start Time	15	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Number in Pace
06/12/18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
03:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	14-23	1
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
05:00	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	10-19	2
06:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	*	1
07:00	1	1	2	2	1	0	0	0	0	0	0	0	0	0	7	21-30	4
08:00	1	0	1	1	0	0	0	0	0	0	0	0	0	0	3	19-28	2
09:00	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8-17	1
10:00	1	2	0	1	0	0	0	0	0	0	0	0	0	0	4	15-24	2
11:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	14-23	1
12 PM	2	2	1	0	0	0	0	0	0	0	0	0	0	0	5	16-25	3
13:00	0	2	0	1	0	0	0	0	0	0	0	0	0	0	3	10-19	2
14:00	1	1	0	1	0	0	0	0	0	0	0	0	0	0	3	15-24	1
15:00	0	1	0	2	0	0	0	0	0	0	0	0	0	0	3	19-28	2
16:00	0	1	2	1	0	0	0	0	0	0	0	0	0	0	4	15-24	3
17:00	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	10-19	2
18:00	1	0	1	1	0	0	0	0	0	0	0	0	0	0	3	19-28	2
19:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	*	1
20:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
21:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
22:00	0	0	1	0	1	0	0	0	0	0	0	0	0	0	2	14-23	1
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
Total	11	14	10	10	2	0	47										
Percent	23.4%	29.8%	21.3%	21.3%	4.3%	0.0%											
AM Peak	09:00	05:00	07:00	07:00	07:00										07:00		
Vol.	2	2	2	2	1										7		
PM Peak	12:00	12:00	16:00	15:00	22:00										12:00		
Vol.	2	2	2	2	1										5		

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 Albuquerque NM, 87109

Site Code: NINTH 2
 Station ID:

Latitude: 0' 0.0000 South

SB	Start Time	15	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Number in Pace
06/13/18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
05:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	9-18	1
06:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	19-28	1
07:00	3	2	0	1	0	0	0	0	0	0	0	0	0	0	0	6	11-20	3
08:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	14-23	1
09:00	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	4	13-22	3
10:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
11:00	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	4	19-28	2
12 PM	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	*	1
13:00	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	3	13-22	2
14:00	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8-17	1
15:00	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	*	1
16:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	9-18	1
17:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	9-18	1
18:00	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	10-19	2
19:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
20:00	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2	9-18	1
21:00	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	4	13-22	2
22:00	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2	9-18	1
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
Total	12	13	7	6	0	38												
Percent	31.6%	34.2%	18.4%	15.8%	0.0%													
AM Peak	07:00	07:00	08:00	06:00														07:00
Vol.	3	2	1	1														6
PM Peak	14:00	18:00	12:00	20:00														21:00
Vol.	2	2	1	1														4
Total	23	27	17	16	2	0	85											
Percent	27.1%	31.8%	20.0%	18.8%	2.4%	0.0%												

15th Percentile : 8 MPH
 50th Percentile : 18 MPH
 85th Percentile : 26 MPH
 95th Percentile : 29 MPH

Stats
 10 MPH Pace Speed : 16-25 MPH
 Number in Pace : 44
 Percent in Pace : 51.8%
 Number of Vehicles > 25 MPH : 18
 Percent of Vehicles > 25 MPH : 21.2%
 Mean Speed(Average) : 19 MPH

Wilson & Company
 4401 Masthead Street, Suite 150
 Albuquerque, NM 87109

Site Code: 9TH ST
 Station ID:

Latitude: 0' 0.0000 South

Start Time	20-Aug-18		Tue		Wed		Thu		Fri		Sat		Sun		Week Average	
	Northboun	Southbo	Northbou	Southbo												
12:00 AM	*	*	*	*	0	0	0	1	0	0	*	*	*	*	0	0
01:00	*	*	*	*	0	0	0	0	3	1	*	*	*	*	1	0
02:00	*	*	*	*	1	0	0	0	0	0	*	*	*	*	0	0
03:00	*	*	*	*	0	0	0	0	0	0	*	*	*	*	0	0
04:00	*	*	*	*	1	2	2	1	0	0	*	*	*	*	1	1
05:00	*	*	*	*	1	0	0	0	3	1	*	*	*	*	1	0
06:00	*	*	*	*	4	4	6	4	4	3	*	*	*	*	5	4
07:00	*	*	*	*	5	17	9	17	4	7	*	*	*	*	6	14
08:00	*	*	*	*	4	17	3	16	9	4	*	*	*	*	5	12
09:00	*	*	*	*	5	16	5	7	10	8	*	*	*	*	7	10
10:00	*	*	*	*	5	6	12	2	7	6	*	*	*	*	8	5
11:00	*	*	*	*	6	4	20	8	8	2	*	*	*	*	11	5
12:00 PM	*	*	*	*	9	3	6	3	*	*	*	*	*	*	8	3
01:00	*	*	12	5	7	1	9	1	*	*	*	*	*	*	9	2
02:00	*	*	12	2	8	1	7	1	*	*	*	*	*	*	9	1
03:00	*	*	26	7	22	1	35	3	*	*	*	*	*	*	28	4
04:00	*	*	11	2	9	0	17	1	*	*	*	*	*	*	12	1
05:00	*	*	18	1	15	2	22	4	*	*	*	*	*	*	18	2
06:00	*	*	6	2	7	0	5	2	*	*	*	*	*	*	6	1
07:00	*	*	3	3	2	1	12	3	*	*	*	*	*	*	6	2
08:00	*	*	9	1	4	1	6	2	*	*	*	*	*	*	6	1
09:00	*	*	1	1	3	0	4	1	*	*	*	*	*	*	3	1
10:00	*	*	3	0	1	0	2	1	*	*	*	*	*	*	2	0
11:00	*	*	0	0	1	0	0	0	*	*	*	*	*	*	0	0
Lane Day	0	0	101	24	120	76	182	78	48	32	0	0	0	0	152	69
AM Peak	-	-	-	-	11:00	07:00	11:00	07:00	09:00	09:00	-	-	-	-	11:00	07:00
Vol.	-	-	-	-	6	17	20	17	10	8	-	-	-	-	11	14
PM Peak	-	-	15:00	15:00	15:00	12:00	15:00	17:00	-	-	-	-	-	-	15:00	15:00
Vol.	-	-	26	7	22	3	35	4	-	-	-	-	-	-	28	4

Comb. Total	0	125	196	260	80	0	0	221
ADT	ADT 223	AADT 223						

Site Code: 9TH ST
 Station ID:

Latitude: 0' 0.0000 South
 Latitude: 0' 0.0000 South

Northbound

Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Number in Pace
	15	20	25	30	35	40	45	50	55	60	65	70	75	999			
08/21/18	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	6	5	1	0	0	0	0	0	0	0	0	0	0	0	12	11-20	7
14:00	2	3	4	2	1	0	0	0	0	0	0	0	0	0	12	16-25	7
15:00	4	7	8	7	0	0	0	0	0	0	0	0	0	0	26	19-28	15
16:00	2	1	8	0	0	0	0	0	0	0	0	0	0	0	11	16-25	9
17:00	3	5	6	3	0	1	0	0	0	0	0	0	0	0	18	16-25	11
18:00	0	2	2	2	0	0	0	0	0	0	0	0	0	0	6	15-24	4
19:00	1	2	0	0	0	0	0	0	0	0	0	0	0	0	3	15-24	2
20:00	2	4	1	2	0	0	0	0	0	0	0	0	0	0	9	11-20	5
21:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	19-28	1
22:00	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3	11-20	3
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
Total	20	32	30	17	1	1	0	0	0	0	0	0	0	0	101		
Percent	19.8%	31.7%	29.7%	16.8%	1.0%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak Vol.																	
PM Peak Vol.	13:00	15:00	15:00	15:00	14:00	17:00									15:00		
	6	7	8	7	1	1									26		

Site Code: 9TH ST
 Station ID:

Latitude: 0' 0.0000 South
 Latitude: 0' 0.0000 South

Northbound

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	Pace Speed	Number in Pace
08/22/18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
02:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	9-18	1
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
04:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	*	1
05:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	9-18	1
06:00	1	0	2	1	0	0	0	0	0	0	0	0	0	0	4	19-28	3
07:00	2	1	2	0	0	0	0	0	0	0	0	0	0	0	5	15-24	3
08:00	3	1	0	0	0	0	0	0	0	0	0	0	0	0	4	*	2
09:00	3	2	0	0	0	0	0	0	0	0	0	0	0	0	5	9-18	3
10:00	2	1	2	0	0	0	0	0	0	0	0	0	0	0	5	15-24	3
11:00	2	4	0	0	0	0	0	0	0	0	0	0	0	0	6	11-20	5
12 PM	4	3	1	1	0	0	0	0	0	0	0	0	0	0	9	16-25	4
13:00	0	0	6	1	0	0	0	0	0	0	0	0	0	0	7	19-28	7
14:00	0	3	5	0	0	0	0	0	0	0	0	0	0	0	8	16-25	8
15:00	3	4	9	6	0	0	0	0	0	0	0	0	0	0	22	20-29	15
16:00	3	3	1	1	1	0	0	0	0	0	0	0	0	0	9	16-25	4
17:00	1	4	3	6	1	0	0	0	0	0	0	0	0	0	15	21-30	9
18:00	0	3	3	1	0	0	0	0	0	0	0	0	0	0	7	16-25	6
19:00	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2	14-23	2
20:00	0	2	2	0	0	0	0	0	0	0	0	0	0	0	4	15-24	4
21:00	0	2	0	1	0	0	0	0	0	0	0	0	0	0	3	10-19	2
22:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	9-18	1
23:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	14-23	1
Total	25	37	38	18	2	0	0	0	0	0	0	0	0	0	120		
Percent	20.8%	30.8%	31.7%	15.0%	1.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	08:00	11:00	06:00	06:00											11:00		
Vol.	3	4	2	1											6		
PM Peak	12:00	15:00	15:00	15:00	16:00										15:00		
Vol.	4	4	9	6	1										22		

Site Code: 9TH ST
 Station ID:

Latitude: 0' 0.0000 South
 Latitude: 0' 0.0000 South

Northbound

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	Pace Speed	Number in Pace
08/23/18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
04:00	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	10-19	2
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
06:00	5	0	1	0	0	0	0	0	0	0	0	0	0	0	6	7-16	3
07:00	3	4	2	0	0	0	0	0	0	0	0	0	0	0	9	16-25	6
08:00	0	1	2	0	0	0	0	0	0	0	0	0	0	0	3	15-24	3
09:00	1	1	1	2	0	0	0	0	0	0	0	0	0	0	5	19-28	3
10:00	1	2	6	3	0	0	0	0	0	0	0	0	0	0	12	19-28	9
11:00	9	5	3	2	1	0	0	0	0	0	0	0	0	0	20	10-19	8
12 PM	0	4	1	1	0	0	0	0	0	0	0	0	0	0	6	16-25	5
13:00	2	3	1	3	0	0	0	0	0	0	0	0	0	0	9	21-30	4
14:00	1	2	2	0	2	0	0	0	0	0	0	0	0	0	7	15-24	4
15:00	5	3	17	7	3	0	0	0	0	0	0	0	0	0	35	21-30	24
16:00	2	4	3	4	3	1	0	0	0	0	0	0	0	0	17	15-24	7
17:00	6	9	4	2	0	1	0	0	0	0	0	0	0	0	22	15-24	13
18:00	1	2	2	0	0	0	0	0	0	0	0	0	0	0	5	15-24	4
19:00	4	5	3	0	0	0	0	0	0	0	0	0	0	0	12	15-24	8
20:00	0	1	5	0	0	0	0	0	0	0	0	0	0	0	6	16-25	6
21:00	1	1	1	1	0	0	0	0	0	0	0	0	0	0	4	13-22	2
22:00	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2	19-28	2
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
Total	41	49	55	26	9	2	0	182									
Percent	22.5%	26.9%	30.2%	14.3%	4.9%	1.1%	0.0%										
AM Peak	11:00	11:00	10:00	10:00	11:00										11:00		
Vol.	9	5	6	3	1										20		
PM Peak	17:00	17:00	15:00	15:00	15:00	16:00									15:00		
Vol.	6	9	17	7	3	1									35		

Stats	10 MPH Pace Speed :	16-25 MPH
	Number in Pace :	272
	Percent in Pace :	60.3%
	Number of Vehicles > 55 MPH :	0
	Percent of Vehicles > 55 MPH :	0.0%
	Mean Speed(Average) :	19 MPH

Site Code: 9TH ST
 Station ID:

Latitude: 0' 0.0000 South
 Latitude: 0' 0.0000 South

Southbound

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	Pace Speed	Number in Pace
08/21/18	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	3	1	0	1	0	5	11-20	2									
14:00	0	2	0	2	10-19	2											
15:00	1	2	2	2	0	7	15-24	4									
16:00	1	0	0	1	0	2	*	1									
17:00	1	0	1	*	1												
18:00	0	2	0	2	10-19	2											
19:00	1	1	1	0	3	13-22	2										
20:00	0	0	1	0	1	14-23	1										
21:00	0	0	1	0	1	14-23	1										
22:00	0	*	*														
23:00	0	*	*														
Total	7	8	5	4	0	24											
Percent	29.2%	33.3%	20.8%	16.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak Vol.																	
PM Peak Vol.	13:00	14:00	15:00	15:00											15:00		
	3	2	2	2											7		

Site Code: 9TH ST
 Station ID:

Latitude: 0' 0.0000 South
 Latitude: 0' 0.0000 South

Southbound

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	Pace Speed	Number in Pace
08/22/18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
04:00	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2	15-24	1
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
06:00	0	0	1	1	2	0	0	0	0	0	0	0	0	0	4	24-33	3
07:00	4	3	1	5	3	1	0	0	0	0	0	0	0	0	17	25-34	8
08:00	1	3	9	4	0	0	0	0	0	0	0	0	0	0	17	21-30	13
09:00	1	3	3	6	1	1	1	0	0	0	0	0	0	0	16	21-30	9
10:00	2	2	2	0	0	0	0	0	0	0	0	0	0	0	6	15-24	4
11:00	3	1	0	0	0	0	0	0	0	0	0	0	0	0	4	*	2
12 PM	1	0	2	0	0	0	0	0	0	0	0	0	0	0	3	15-24	2
13:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	*	1
14:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	*	1
15:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	19-28	1
16:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
17:00	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	15-24	2
18:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
19:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	*	1
20:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	19-28	1
21:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
22:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
Total	16	13	20	18	6	2	1	0	76								
Percent	21.1%	17.1%	26.3%	23.7%	7.9%	2.6%	1.3%	0.0%									
AM Peak	07:00	07:00	08:00	09:00	07:00	07:00	09:00								07:00		
Vol.	4	3	9	6	3	1	1								17		
PM Peak	12:00		12:00	15:00											12:00		
Vol.	1		2	1											3		

Site Code: 9TH ST
 Station ID:

Latitude: 0' 0.0000 South
 Latitude: 0' 0.0000 South

Southbound

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	Pace Speed	Number in Pace
08/23/18	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	29-38	1
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
04:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	9-18	1
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
06:00	1	1	0	2	0	0	0	0	0	0	0	0	0	0	4	19-28	2
07:00	4	1	5	6	1	0	0	0	0	0	0	0	0	0	17	21-30	11
08:00	1	3	6	2	3	1	0	0	0	0	0	0	0	0	16	16-25	9
09:00	0	2	2	1	2	0	0	0	0	0	0	0	0	0	7	16-25	4
10:00	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2	*	1
11:00	1	2	3	2	0	0	0	0	0	0	0	0	0	0	8	21-30	5
12 PM	1	2	0	0	0	0	0	0	0	0	0	0	0	0	3	15-24	2
13:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	14-23	1
14:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	*	1
15:00	0	1	2	0	0	0	0	0	0	0	0	0	0	0	3	15-24	3
16:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	14-23	1
17:00	0	3	1	0	0	0	0	0	0	0	0	0	0	0	4	14-23	4
18:00	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8-17	1
19:00	2	1	0	0	0	0	0	0	0	0	0	0	0	0	3	9-18	2
20:00	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	10-19	2
21:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	14-23	1
22:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	9-18	1
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
Total	14	20	23	13	6	2	0	0	0	0	0	0	0	0	78		
Percent	17.9%	25.6%	29.5%	16.7%	7.7%	2.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	07:00	08:00	08:00	07:00	08:00	00:00									07:00		
Vol.	4	3	6	6	3	1									17		
PM Peak	18:00	17:00	15:00												17:00		
Vol.	2	3	2												4		

Stats	10 MPH Pace Speed :	16-25 MPH
	Number in Pace :	104
	Percent in Pace :	49.5%
	Number of Vehicles > 55 MPH :	0
	Percent of Vehicles > 55 MPH :	0.0%
	Mean Speed(Average) :	21 MPH

Site Code: 9TH ST
 Station ID:

Latitude: 0' 0.0000 South

Northbound, Southbound

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
08/21/18	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	0	7	1	0	0	0	0	0	0	0	0	0	0	9	17
14:00	0	12	1	0	0	0	0	0	0	0	0	0	0	1	14
15:00	0	26	3	1	2	0	0	0	0	0	0	0	0	1	33
16:00	0	10	1	0	1	0	0	0	0	0	0	0	0	1	13
17:00	0	14	4	0	1	0	0	0	0	0	0	0	0	0	19
18:00	0	4	2	0	2	0	0	0	0	0	0	0	0	0	8
19:00	0	3	2	0	1	0	0	0	0	0	0	0	0	0	6
20:00	0	6	3	0	0	0	0	0	0	0	0	0	0	1	10
21:00	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
22:00	0	2	1	0	0	0	0	0	0	0	0	0	0	0	3
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	86	18	1	7	0	0	0	0	0	0	0	0	13	125
Percent	0.0%	68.8%	14.4%	0.8%	5.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	10.4%	
AM Peak Vol.															
PM Peak Vol.		15:00 26	17:00 4	15:00 1	15:00 2									13:00 9	



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