

Prepared For:

# THE MISSNER GROUP

Prepared By:



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# I. Executive Summary

This report summarizes the results of a traffic impact study conducted by Kenig, Lindgren, O'Hara, Aboona, Inc. (KLOA, Inc.) for a proposed industrial building to be located at 328 West 40<sup>th</sup> Place in Chicago, Illinois. The objectives of the traffic study are as follows:

- Determine the existing vehicular, pedestrian, bicycle, and public transportation conditions in the study area to establish a base condition.
- Assess the impact that the proposed development will have on transportation conditions in the area.
- Determine any street, access, bicycle, and pedestrian modifications and/or improvements that will be necessary to effectively accommodate and mitigate future conditions.

Vehicle, pedestrian, and bicycle counts were conducted during the weekday morning and weekday evening peak periods at the intersections of Pershing Road and Root Street with Normal Avenue, Princeton Avenue, and Wells Street in order to determine the general peak hour of traffic activity during these time periods.

As proposed, the site will be developed with an approximately 180,900 square-foot multi-tenant industrial building. The development will provide a total of 176 parking spaces for employees, 38 spaces for trailer storage, and 35 truck loading bays. Access to the site is proposed to be provided via a full movement access drive off Root Street and two full movement access drives off Princeton Avenue.

Based on the preceding analyses and recommendations, the following conclusions have been made:

- The truck traffic generated by the development is anticipated to have a limited impact on the street system as the majority of truck traffic is expected to arrive and depart the site outside of peak hours.
- Given the low clearance of the viaducts on Princeton Avenue (north of the site) and Root Street (west of the site), all truck traffic will approach and depart the site to and from the east on Root Street.
- Area intersections have sufficient reserve capacity to accommodate the traffic estimated to be generated by the proposed development and no roadway improvements or traffic control modifications are required.
- The proposed access system will be adequate in accommodating the traffic estimated to be generated by the proposed development.



# 1. Introduction

This report summarizes the methodologies, results, and findings of a traffic impact study conducted by Kenig, Lindgren, O'Hara, Aboona, Inc. (KLOA, Inc.) for a proposed industrial building to be located at 328 W. 40<sup>th</sup> Place in Chicago, Illinois. The site, which currently contains an AMM Metal Forming facility, is located in the northwest quadrant of the intersection of Root Street with Princeton Avenue. As proposed, the site will be redeveloped with a multi-tenant industrial building with approximately 180,900 square feet of space. Access to the site is proposed to be provided via a full movement access drive off Root Street and two full movement access drives off Princeton Avenue.

The purpose of this study was to examine existing traffic conditions, assess the impact that the proposed development will have on traffic conditions in the area, and determine if any determine if any improvements to the transportation system are required to accommodate the proposed development. **Figure 1** shows the location of the site in relation to the area street system. **Figure 2** shows an aerial view of the site.

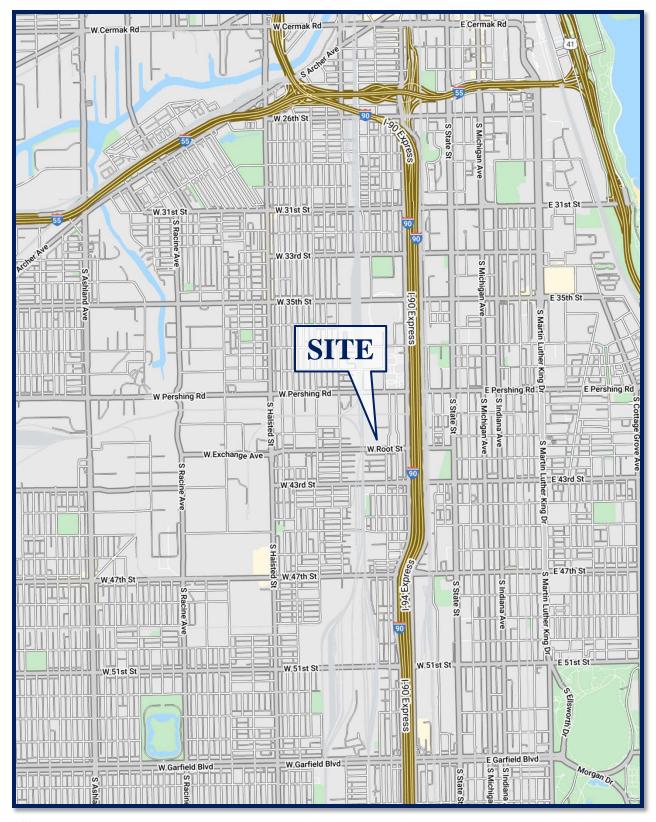
The sections of this report present the following:

- Existing street conditions
- A description of the proposed development
- Directional distribution of the development traffic
- Vehicle trip generation for the development
- Future traffic conditions including access to the development
- Traffic analyses for the weekday morning and weekday evening peak hours
- Evaluation and recommendations with respect to adequacy of the site access, on-site circulation, and adjacent street system.

Traffic capacity analyses were conducted for the weekday morning and weekday evening peak hours for the following conditions:

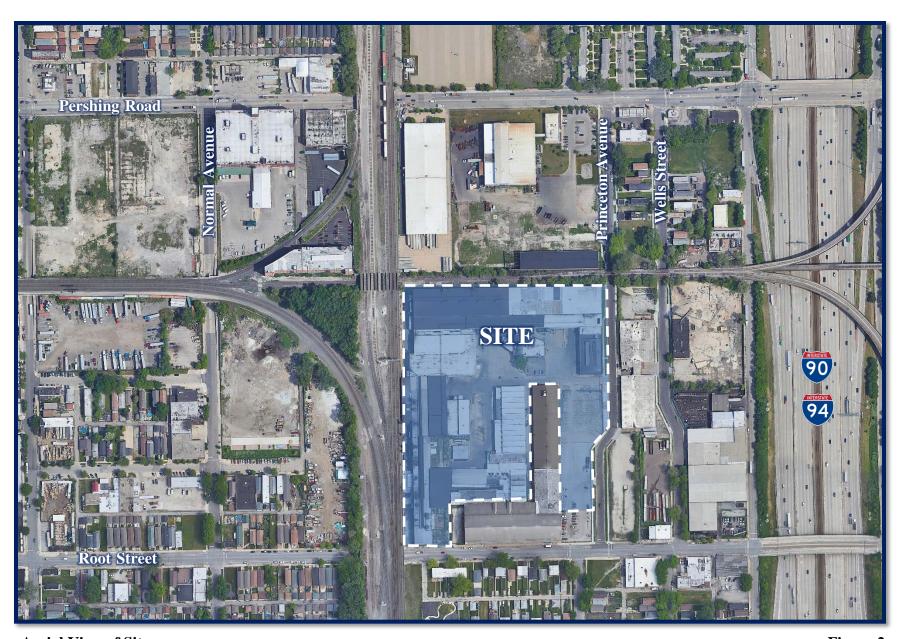
- 1. Year 2022 Base Conditions Analyzes the capacity of the existing roadway system using peak hour traffic volumes conducted in 2021 and 2022 adjusted to represent typical conditions.
- 2. Year 2028 Total Projected Conditions Analyzes the capacity of the future roadway system using the projected traffic volumes that include the Year 2022 base traffic volumes, traffic projected to be generated by other area developments, ambient area growth not attributable to any particular development, and the traffic estimated to be generated by the proposed development.





Site Location Figure 1





Aerial View of Site 348 W 40<sup>th</sup> Place Chicago, Illinois



# 2. Existing Conditions

Existing transportation conditions in the vicinity of the site were documented based on field visits conducted by KLOA, Inc. in order to obtain a database for projecting future conditions. The following provides a description of the geographical location of the site, physical characteristics of the area street system including lane usage and traffic control devices, and existing peak hour traffic volumes.

#### Site Location

The site is generally bounded by Norfolk Southern Railway, Northeast Illinois Regional Commuter Corp., and Union Pacific railroad to the north and west, Princeton Avenue to the east and Root Street to the south. The area offers a mixture of residential, industrial, and commercial uses. Guaranteed Rate Field is located approximately one-half mile to the north.

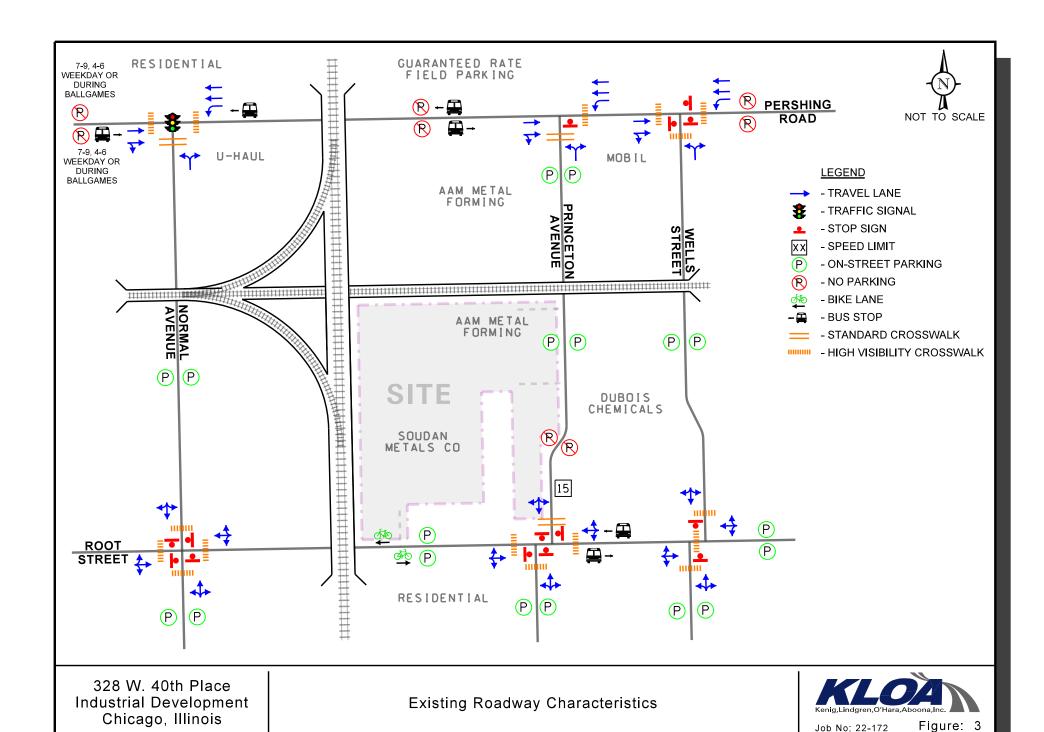
#### **Existing Street System Characteristics**

The characteristics of the existing streets near the development are described below and illustrated in **Figure 3**. All streets are under the jurisdiction of the Chicago Department of Transportation (CDOT) unless otherwise noted.

Pershing Road is an east-west, principal arterial street that provides two lanes in each direction. At its signalized intersection with Normal Avenue, Pershing Road provides one through lane and a shared through/right-turn lane on the eastbound approach and an exclusive left-turn lane and two through lanes on the westbound approach. All legs of this intersection provide crosswalks with pedestrian countdown signals. At its unsignalized intersection with Princeton Avenue, Pershing Road provides one through lane and a shared through/right-turn lane on the eastbound approach and an exclusive left-turn lane and two through lanes on the westbound approach. The east and south legs of this intersection provide crosswalks. At its all-way stop sign-controlled intersection with Wells Street, Pershing Road provides one through lane and a shared through/right-turn lane on the eastbound approach and an exclusive left-turn lane and two through lanes on the westbound approach. The east and south legs of this intersection provide crosswalks. Parking is prohibited on both sides of the street between 7:00 A.M. and 9:00 A.M and between 4:00 P.M. and 6:00 P.M. Monday through Friday and during ball games. Pershing Road is under the jurisdiction of the Illinois Department of Transportation (IDOT), is designated as a Strategic Regional Arterial (SRA) route and carries and Annual Average Daily Traffic of 14,500 vehicles (IDOT 2018).

Root Street is an east-west, minor collector street that provides one lane in each direction. At its all-way stop sign-controlled intersection with Normal Avenue, Root Street provides a shared left-turn/through/right-turn lane on both approaches. All legs of this intersection provide high visibility crosswalks. At its all-way stop sign-controlled intersection with Princeton Avenue, Root Street provides a shared left-turn/through/right-turn lane on both approaches. All legs of this intersection provide high visibility crosswalks. At its unsignalized intersection with Wells Street, Root Street





provides a shared left-turn/through/right-turn lane on both approaches. The east and north legs of this intersection provide high visibility crosswalks. Within the vicinity of the site, bike lanes are provided on both sides of Root Street and parking is generally permitted on both sides of the street. Root Street carries an AADT of 1,750 vehicles (IDOT 2018).

*Normal Avenue* is a north-south local street that provides one lane in each direction. At its signalized intersection with Pershing Road, Normal Avenue provides a shared left-turn/right-turn lane on the northbound approach. It should be noted that access between Pershing Road and the north leg of Normal Avenue is prohibited. All legs of this intersection provide high visibility crosswalks and pedestrian countdown timers. At its all-way stop sign-controlled intersection with Root Street, Normal Avenue provides a shared left-turn/through/right-turn lane on both approaches. All legs of this intersection provide high visibility crosswalks. Within the vicinity of the site parking is generally permitted on both sides of the street. Normal Avenue carries an AADT of 825 vehicles (IDOT 2018).

*Princeton Avenue* is a north-south, local street that provides one lane in each direction. At its unsignalized intersection with Pershing Road, Princeton Avenue provides a shared left-turn/through/right-turn lane on the northbound approach and is under stop sign control. The east and south legs of this intersection provide crosswalks. At its all-way stop sign-controlled intersection with Root Street, Princeton Avenue provides a shared left-turn/through/right-turn lane on both approaches. All legs of this intersection provide crosswalks. Within the vicinity of the site parking is generally permitted on both sides of the street except between Root Street and the AAM Metal Forming access drive. Through its curve north of Root Street, Princeton Avenue has a posted speed limit of 15 miles per hour. Between Pershing Road and Root Street, Princeton Avenue has a low clearance viaduct under the railroad tracks and that cannot accommodate truck traffic. Princeton Avenue carries an AADT of 775 vehicles (IDOT 2018).

Wells Street is a north-south, local street that provides one lane in each direction. At its all-way stop sign-controlled intersection with Pershing Road, Wells Street provides a shared left-turn/through/right-turn lane on the northbound approach. The east and south legs of this intersection provide crosswalks. At its unsignalized intersection with Root Street, Wells Street provides a shared left-turn/through/right-turn lane on both approaches. The north and west legs of this intersection provide crosswalks. Within the vicinity of the site parking is generally permitted on both sides of the street. Wells Street carries an AADT of 300 vehicles (IDOT 2018).

#### Alternative Modes of Transportation

Accessibility to and from the area is enhanced by the various alternative modes of transportation serving the area as summarized below.

*Public Transportation*. The area is served by the Chicago Transit Authority (CTA) rapid transit via the Sox-35th Red Line station located approximately three-quarters of a mile northeast of the site. The CTA Red Line operates 24 hours a day, seven days a week between Howard Street and the 95<sup>th</sup>/Dan Ryan station located along the Dan Ryan Expressway at 95<sup>th</sup> Street. Additional service is provided via the Green Line tracks between the Cermak-McCormick Place station and the Ashland/63<sup>rd</sup> station during rush periods only.



In addition, the following bus routes serve the immediate area and have stops near the facility:

Route 24 (Wentworth) provides north-south service between Wacker Drive to the north and 79th Street to the south generally along LaSalle Street and Wentworth Avenue. Service is provided Monday through Friday generally from 5:00 A.M. to 9:30 P.M. Supplementary service may be provided as far south as 87th Street, including stops at Simeon Career Academy and the Gresham Metra Station.

*Route 39 (Pershing)* generally runs along Pershing Road between the Lake Park Avenue and St. Louis Avenue. It operates daily, including holidays, from approximately 5:00 A.M. to 10:00 P.M. on weekdays and from approximately 7:30 A.M. to 5:15 P.M. on Saturdays.

*Route 43 (43rd)* generally runs along 43<sup>rd</sup> Street and Root Street between the Oakenwald Avenue and Halsted Avenue. It operates daily, including holidays, from approximately 5:00 A.M. to 8:10 P.M. on weekdays and from approximately 6:40 A.M. to 6:50 P.M. on Saturdays.

*Route 44 (Wallace-Racine)* generally runs along Wallace and Racine between the Halsted Orange Line Station and 87<sup>th</sup> Street. It operates daily, including holidays, from approximately 4:30 A.M. to 11:00 P.M. on weekdays and from approximately 8:00 A.M. to 7:30 P.M. on Saturdays.

**Pedestrian Accommodations.** Sidewalks and high-visibility crosswalks are generally provided on the majority of the streets within the study area.

**Bike Facilities.** Root Street provides dedicated bike lanes in both directions. According to the City of Chicago's *Streets for Cycling Plan 2020*, Pershing Road is designated as a crosstown Bike Route and Root Street and Normal Avenue are designated as a neighborhood bike routes.

#### Year 2022 Base Traffic Volumes

In order to determine current traffic conditions in the vicinity of the site, KLOA, Inc. conducted peak period traffic counts using Miovision Scout Video Collection Units on Tuesday, June 21, 2022 during the weekday morning (6:00 A.M. to 9:00 A.M.) and weekday evening (3:00 P.M. to 6:00 P.M.) peak periods at the following intersections:

- Pershing Road with Princeton Avenue
- Pershing Road with Wells Street
- Root Street with Princeton Avenue
- Root Street with Wells Street

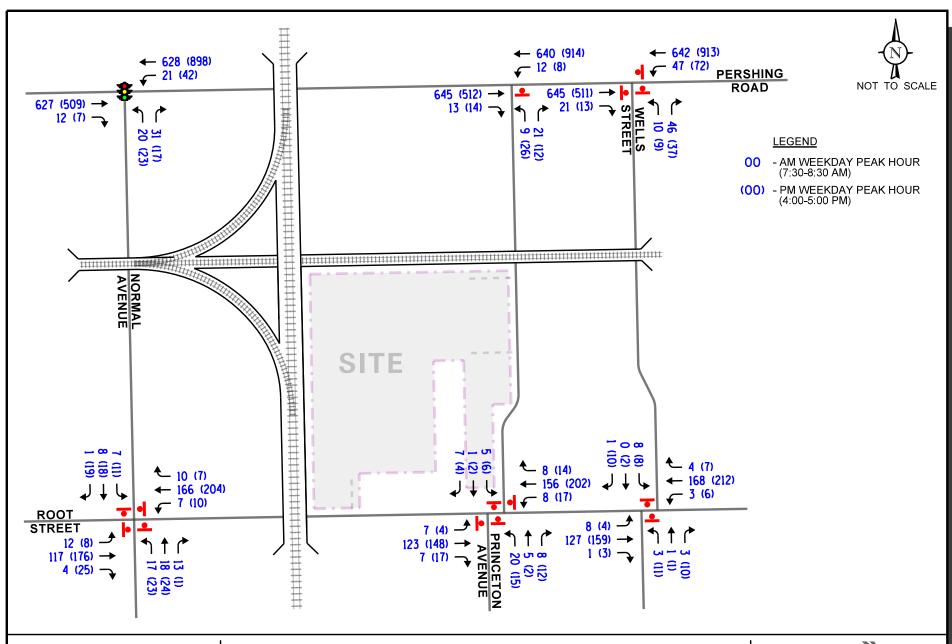
The results of the traffic counts indicated that the weekday morning peak hour of traffic occurs from 7:30 A.M. to 8:30 A.M. and the weekday evening peak hour of traffic occurs from 4:00 P.M. to 5:00 P.M. These counts were supplemented with counts conducted at the intersections of Pershing Road with Normal Avenue and Root Street with Normal Avenue in 2021. Copies of the traffic count summary sheets are included in the Appendix.



In order to ensure that the Year 2022 traffic counts represent normal traffic conditions, the traffic volumes were compared with hourly counts previously conducted by IDOT on Pershing Road in 2018. Based on the 2018 counts, the 2022 traffic counts were increased by 30 percent during the weekday morning peak hour and 10 percent during the weekday evening peak hour.

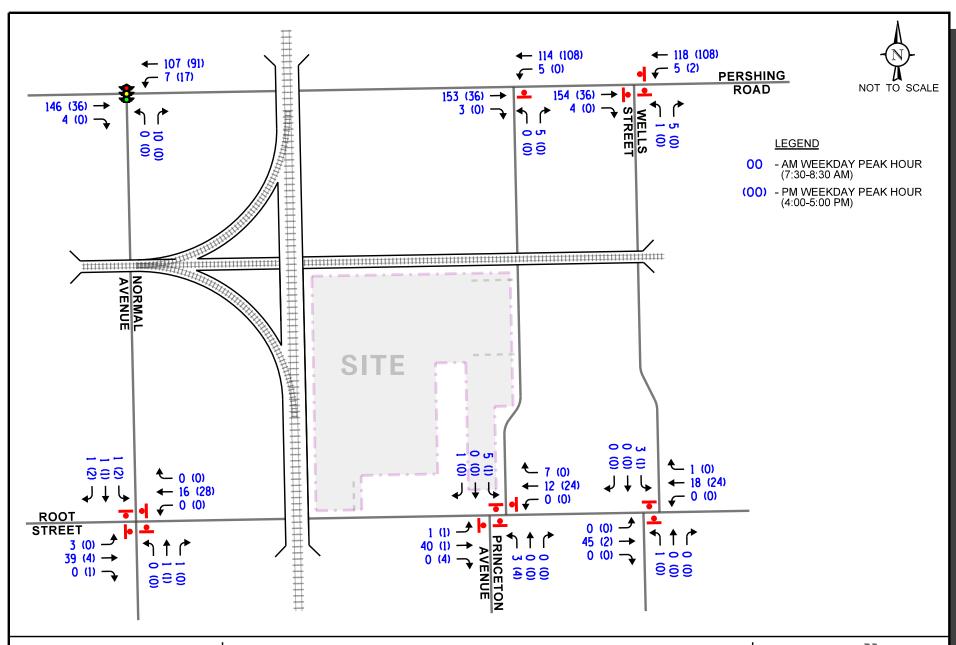
**Figure 4** illustrates the Year 2022 base peak hour vehicle traffic volumes, inclusive of heavy vehicles. **Figure 5** illustrates the Year 2022 base heavy vehicle peak hour traffic volumes. **Figure 6** illustrates the existing pedestrian and bicycle volumes, showing direction of travel.





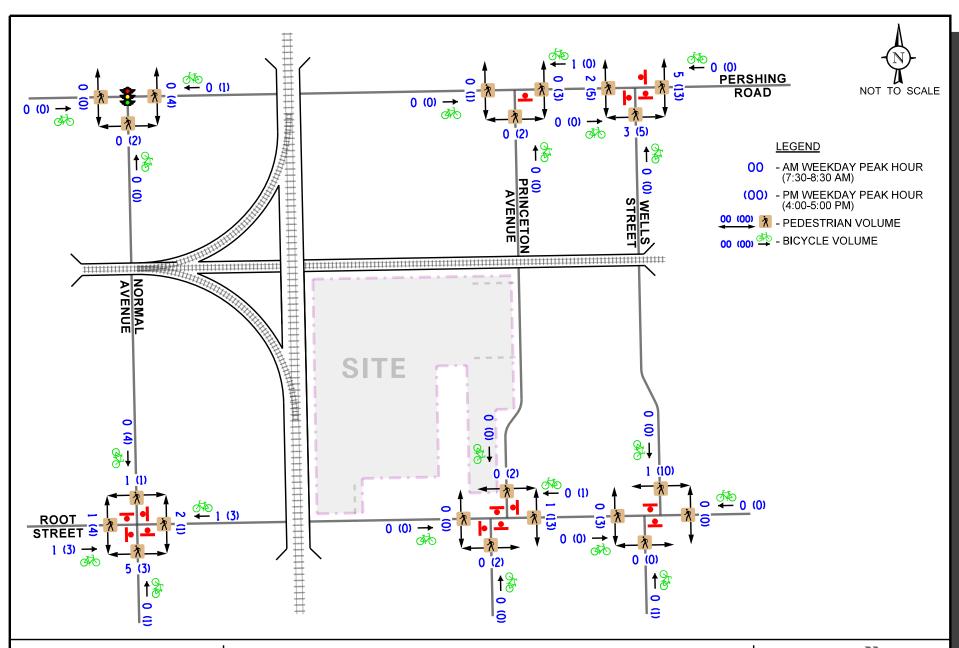
Kenig,Lindgren,O'Hara,Aboona,Inc.

Job No: 22-172 Figure: 4



Year 2022 Base Traffic Volumes - Heavy Vehicles





Existing Pedestrian and Bicycle Traffic Volumes



Job No: 22-172

# 3. Traffic Characteristics of the Proposed Development

In order to properly evaluate future traffic conditions in the surrounding area, it was necessary to determine the traffic characteristics of the proposed development, including the directional distribution and volumes of traffic that it will generate.

#### Proposed Development Plan

As proposed, the site will be developed with an approximately 180,900 square-foot multi-tenant industrial building. The development will provide 176 parking spaces for employees on the east and south sides of the building. 35 truck loading bays will be provided on the west side of the building and 38 trailer storage spaces will be provided on the east side of the site. Access to the development is proposed to be provided as follows:

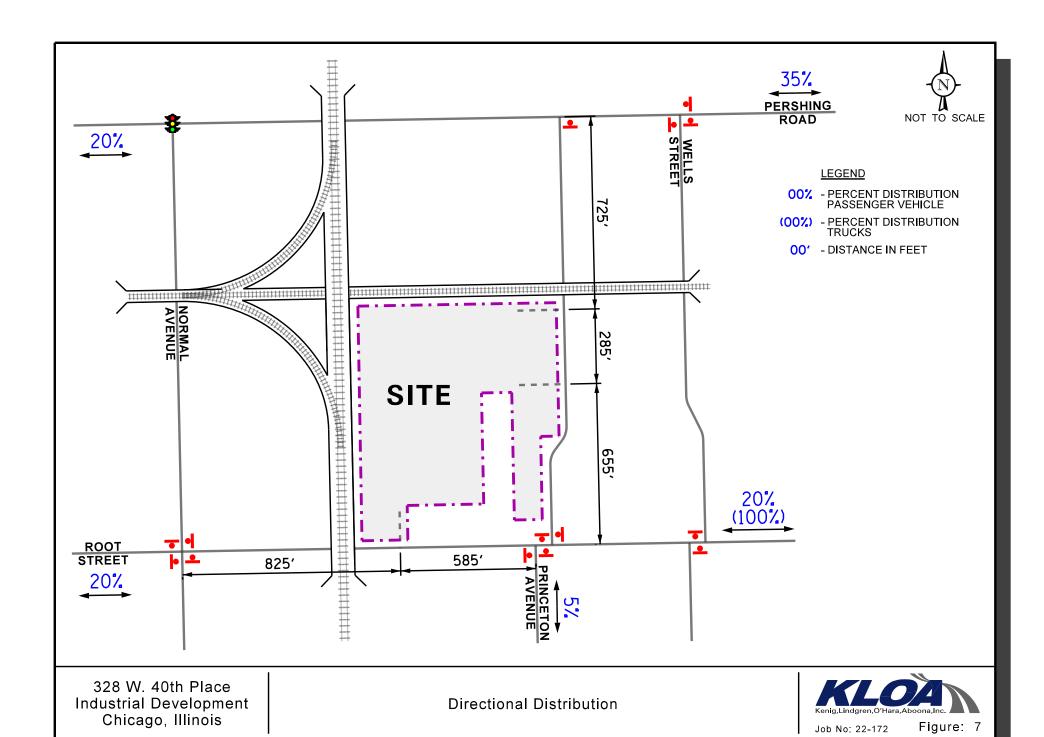
- A full movement access drive on the north side of Root Street located approximately 585 feet west of Princeton Road. This access drive will provide one inbound lane and one outbound lane with outbound movements under stop sign control. This access drive will serve passenger vehicles only.
- A full movement access drive on the west side of Princeton Avenue located approximately 725 feet south of Pershing Road. This access drive will provide one inbound lane and one outbound lane wide enough to accommodate truck turning movements. Outbound movements will be under stop sign control. This access drive will serve passenger vehicles and trucks.
- A full movement access drive on the west side of Princeton Avenue located approximately
  655 feet north of Root Street. This access drive will provide one inbound lane and one
  outbound lane with outbound movements under stop sign control. This access drive will
  serve passenger vehicles only.

As indicated earlier, given the low clearance of the viaducts on Princeton Avenue (north of the site) and Root Street (west of the site), all truck traffic will approach and depart the site to and from the east on Root Street. Furthermore, the proposed development will replace an existing curb cut on Root Street and two existing curb cuts on Princeton Avenue. A copy of the preliminary site plan is included in the appendix.

#### **Directional Distribution**

The directions from which traffic will approach and depart the site was estimated based on existing travel patterns, as determined from the traffic counts and the proposed access system of the development. It should be noted that given the low clearance viaduct on Princeton Avenue, all truck traffic will be required to approach and depart the site via Root Street. **Figure 7** illustrates the directional distribution of traffic.





#### **Development-Generated Traffic Volumes**

The total number of peak hour vehicle trips estimated to be generated by the proposed development was based on General Light Industrial (Land-Use Code 110) vehicle trip generation rates contained in *Trip Generation Manual*, 11<sup>th</sup> Edition, published by the Institute of Transportation Engineers (ITE). **Table 1** summarizes the trips projected to be generated by the development during the peak hours and on a daily basis. **Table 2** summarizes the trips projected to be generated by the development throughout the day. Copies of the ITE trip generation rates are included in the Appendix. It should be noted that given the location of the site within an urban area and the proximity of the site to public transportation and alternative modes of transportation, the number of passenger vehicle trips will be reduced. However, to provide a conservative analysis, no reduction was applied.



Table 1 ESTIMATED DAILY AND PEAK HOUR SITE GENERATED TRAFFIC

ITE Land-	Type/Size	Weekday Morning Peak Hour				kday Ev eak Ho	Daily Trips		
Use Code		In	Out	Total	In	Out	Total	In	Out
110	General Light Industrial (180,900 s.f.)	112	15	127	16	112	128	366	366
Trucks		2	2	4	1	1	2	23	23
Passe	enger Vehicles	110	13	123	15	111	126	343	343

Table 2 ESTIMATED 24-HOUR SITE GENERATED TRAFFIC

General Light Industrial (ITE Land-Use Code 110) – 180,900 s.f.											
Hour		Trucks		Passe	enger Ve	hicles	Total				
	In	Out	Total	In	Out	Total	In	Out	Total		
0:00	0	0	0	0	0	0	0	0	0		
1:00	0	0	0	0	0	0	0	0	0		
2:00	0	0	0	0	0	0	0	0	0		
3:00	0	0	0	0	0	0	0	0	0		
4:00	0	0	0	2	0	2	2	0	2		
5:00	0	0	0	15	1	16	15	1	16		
6:00	0	0	0	20	2	22	20	2	22		
7:00	2	1	3	49	5	54	51	6	57		
8:00	2	2	4	110	13	123	112	15	127		
9:00	4	4	8	17	17	34	21	21	42		
10:00	3	4	7	19	18	37	22	22	44		
11:00	2	1	3	16	23	39	18	24	42		
12:00	2	2	4	23	29	52	25	31	56		
13:00	3	3	6	21	18	39	24	21	45		
14:00	2	2	4	18	23	41	20	25	45		
15:00	2	2	4	15	30	45	17	32	49		
16:00	1	1	2	15	111	126	16	112	128		
17:00	0	1	1	3	46	49	3	47	50		
18:00	0	0	0	0	7	7	0	7	7		
19:00	0	0	0	0	0	0	0	0	0		
10:00	0	0	0	0	0	0	0	0	0		
21:00	0	0	0	0	0	0	0	0	0		
22:00	0	0	0	0	0	0	0	0	0		
23:00	0	0	0	0	0	0	0	0	0		
Total	23	23	46	343	343	686	366	366	732		

# 4. Projected Traffic Conditions

The total projected traffic volumes include the existing traffic volumes, increase in background traffic due to growth, and the traffic estimated to be generated by the proposed development.

#### **Development Traffic Assignment**

The estimated weekday morning and weekday evening peak hour traffic volumes that will be generated by the proposed development were assigned to the street system in accordance with the previously described directional distribution (Figure 7). **Figure 8** illustrates the traffic assignment of the new passenger vehicle trips for the development. **Figure 9** illustrates the traffic assignment of the new truck trips for the development.

#### Other Area Developments

To account for the traffic to be generated by the other future developments in the area, the traffic impact study also included proposed developments and developments currently under construction in the vicinity of the study area.

*3900 S Normal Avenue* will be located on the west side of Normal Avenue between Pershing Road and Root Street and will consist of an approximately 170,493 square-foot multi-tenant industrial building. The volume of traffic projected to be generated by this development was based on the KLOA, Inc. traffic impact study dated May 27, 2021.

1032 W 43<sup>rd</sup> Street will be located west of Morgan Street side between Exchange Avenue and 43<sup>rd</sup> Street and will consist of an approximately 130,354 square-foot multi-tenant industrial building. The volume of traffic projected to be generated by this development was based on the KLOA, Inc. traffic impact study dated August 23, 2021.

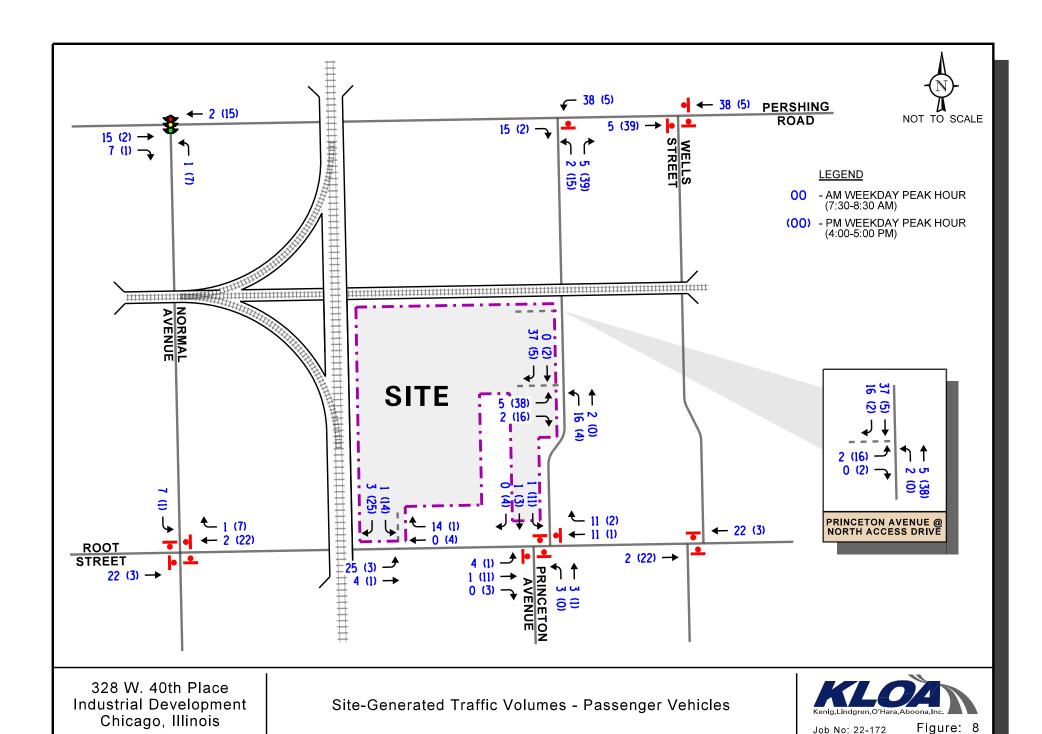
#### **Ambient Traffic Growth**

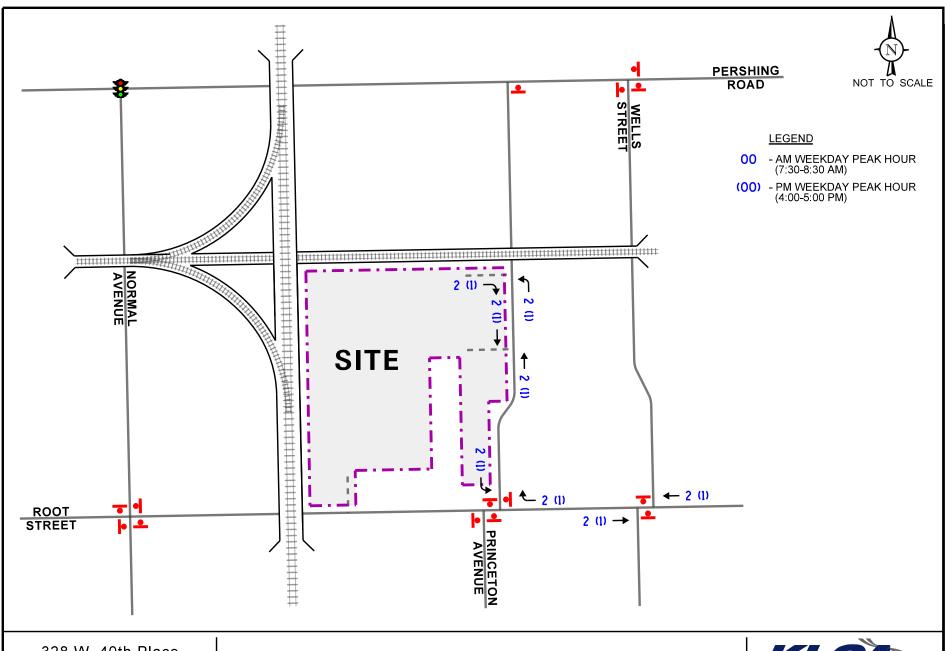
To account for any additional increase in traffic due to other factors or developments not previously discussed, an ambient growth factor of 0.5 percent per year was also applied to the study area over a six-year period to represent Year 2028 conditions. Furthermore, in order to account for the increase in population in the study area, bicycle and pedestrian volumes were increased by 10 percent at each intersection. **Figure 10** illustrates the Year 2028 No Build Volumes which include the Year 2022 Base traffic volumes increased by the ambient growth factor and the traffic projected to be generated by the other area developments.

#### **Total Projected Traffic Volumes**

The Year 2028 No Build volumes were combined with the new peak hour traffic volumes generated by the proposed development to determine the Year 2028 total traffic volumes, shown in **Figure 11**.







Site-Generated Traffic Volumes - Trucks



Job No: 22-172

Figure: 9

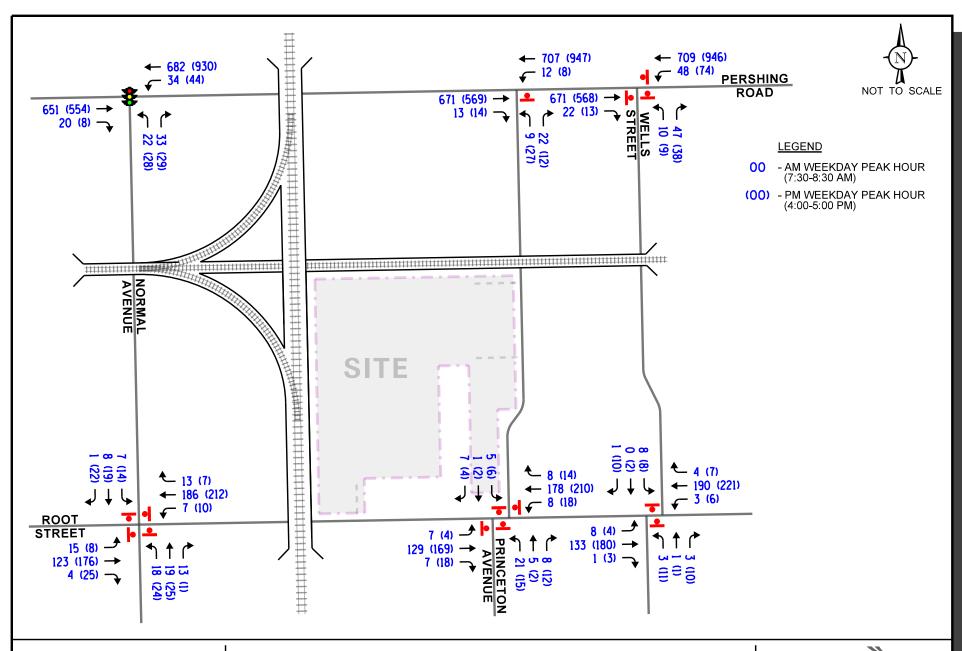
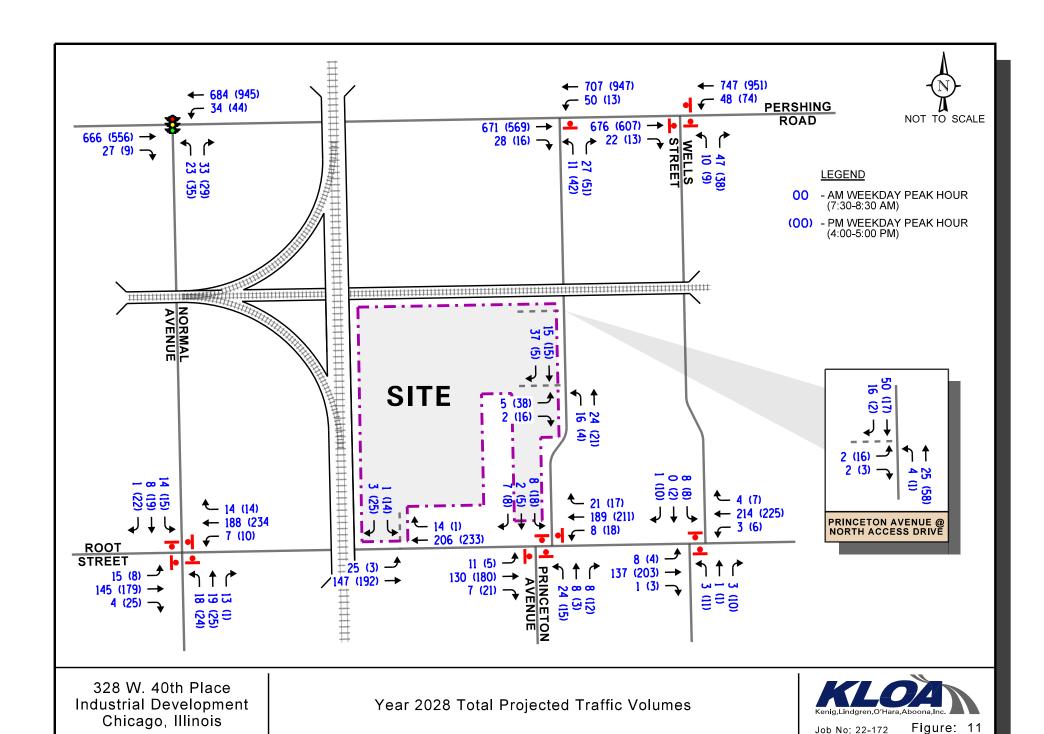


Figure: 10



# 5. Traffic Analysis and Recommendations

The following provides an evaluation conducted for the weekday morning and weekday evening peak hours. The analysis includes conducting capacity analyses to determine how well the street system and access drives are projected to operate and whether any street improvements or modifications are required.

#### Traffic Analyses

Intersection analyses were performed for the weekday morning and weekday evening peak hours for the Year 2022 base and Year 2028 total projected traffic volumes.

The traffic analyses were performed using the methodologies outlined in the Transportation Research Board's *Highway Capacity Manual (HCM)*, 6<sup>th</sup> *Edition* and analyzed using Synchro/SimTraffic 11 software. The analysis for the signalized intersections were conducted utilizing actual cycle lengths, phasings, and offsets.

The analyses for the unsignalized intersections determine the average control delay to vehicles at an intersection. Control delay is the elapsed time from a vehicle joining the queue at a stop sign (includes the time required to decelerate to a stop) until its departure from the stop sign and resumption of free flow speed. The methodology analyzes each intersection approach controlled by a stop sign and considers traffic volumes on all approaches and lane characteristics.

The ability of an intersection to accommodate traffic flow is expressed in terms of level of service, which is assigned a letter from A to F based on the average control delay experienced by vehicles passing through the intersection. The *Highway Capacity Manual* definitions for levels of service and the corresponding control delay for signalized intersections and unsignalized intersections are included in the Appendix of this report.

Summaries of the traffic analysis results showing the level of service and overall intersection delay (measured in seconds) for the Year 2022 base and Year 2028 total projected conditions are presented in **Tables 3** through **5**. A discussion of the intersections follows. Summary sheets for the capacity analyses are included in the Appendix.



Table 3 CAPACITY ANALYSIS RESULTS – PERSHING ROAD WITH NORMAL AVENUE

	Peak	Eastbound	Wes	stbound	Northbound	Owawall	
	Hour	T/R		L/T	L/R	Overall	
.022 ditions	Weekday Morning Peak Hour	A 8.5	A 9.9 B	B 11.5 – 11.4	A 8.0	A 9.9	
Year 2022 Base Conditions	Weekday Evening Peak Hour	A 7.0	B 10.5	B 12.9 – 12.8	A 9.5	B 10.7	
Year 2028 Total Projected Conditions	Weekday Morning Peak Hour	A 8.6	B 11.7	B 11.9 – 11.9	A 8.1	B 10.2	
	Weekday Evening Peak Hour	A 6.8	B 11.0	B 13.4 – 13.3	A 9.2	B 10.9	
Letter denotes Level of Service Delay is measured in seconds.				L – Left-Turn T – Through	S	R – Right-Turns	



Table 4
CAPACITY ANALYSIS RESULTS – UNSIGNALIZED – YEAR 2022 BASE CONDITIONS

			y Morning k Hour	Weekday Evening Peak Hour			
Intersection		LOS	Delay	LOS	Delay		
Pershing Roa	ad with Princeton Av	enue <sup>1</sup>					
• Westl	bound Left Turn	В	10.5	A	8.5		
<ul> <li>North</li> </ul>	bound Approach	C	15.2	C	19.0		
Pershing Roa	ad with Wells Street <sup>2</sup>						
<ul><li>Overa</li></ul>	all	C	18.8	C	16.6		
• Eastb	ound Approach	D	26.0	C	17.8		
<ul><li>Westl</li></ul>	bound Approach	В	12.4	C	16.2		
<ul><li>North</li></ul>	bound Approach	В	10.9	В	10.6		
Root Street v	vith Normal Avenue <sup>2</sup>						
<ul><li>Overa</li></ul>	all	A	8.6	A	9.2		
<ul> <li>Eastb</li> </ul>	ound Approach	A	8.9	A	9.1		
• Westl	bound Approach	A	8.6	A	8.6		
<ul><li>North</li></ul>	bound Approach	A	8.0	A	8.6		
• South	bound Approach	A	8.2	A	8.7		
Root Street v	vith Princeton Avenu	$e^2$					
<ul><li>Overa</li></ul>	all	A	8.6	A	9.1		
<ul> <li>Eastb</li> </ul>	ound Approach	A	8.5	A	9.2		
• Westl	bound Approach	A	8.5	A	9.1		
<ul><li>North</li></ul>	bound Approach	A	8.3	A	8.5		
• South	bound Approach	A	9.4	A	8.3		
Root Street v	vith Wells Street <sup>1</sup>						
• Eastb	ound Left Turn	A	7.6	A	7.8		
• Westl	bound Left Turn	A	7.5	A	7.6		
<ul><li>North</li></ul>	bound Approach	В	10.7	В	11.0		
• South	bound Approach	В	11.9	В	11.3		
	Stop Sign Control op Sign Control	LOS = Level of Service Delay is measured in sec	conds.				



Table 5
CAPACITY ANALYSIS RESULTS – UNSIGNALIZED – YEAR 2028 PROJECTED CONDITIONS

CAPACITY ANALYSIS RESULTS – UNSI	Weekda	y Morning x Hour	Weekday Evening Peak Hour		
Intersection	LOS	Delay	LOS	Delay	
Pershing Road with Princeton Avenue <sup>1</sup>					
Westbound Left Turn	A	9.5	A	8.7	
Northbound Approach	C	17.4	С	20.2	
Pershing Road with Wells Street <sup>2</sup>					
<ul> <li>Overall</li> </ul>	C	22.5	С	20.7	
<ul> <li>Eastbound Approach</li> </ul>	D	32.2	C	24.3	
Westbound Approach	В	14.7	C	19.0	
Northbound Approach	В	11.2	В	10.9	
Root Street with Normal Avenue <sup>2</sup>					
<ul> <li>Overall</li> </ul>	A	9.1	A	9.7	
Eastbound Approach	A	9.6	A	9.6	
Westbound Approach	A	9.0	В	10.2	
Northbound Approach	A	8.2	A	8.9	
Southbound Approach	A	8.4	A	9.0	
Root Street with Princeton Avenue <sup>2</sup>					
<ul> <li>Overall</li> </ul>	A	9.0	A	9.5	
Eastbound Approach	A	8.8	A	9.7	
Westbound Approach	A	9.1	A	9.5	
Northbound Approach	A	8.5	A	8.8	
Southbound Approach	A	9.5	A	8.6	
Root Street with Wells Street <sup>1</sup>					
Eastbound Left Turn	A	7.8	A	7.8	
Westbound Left Turn	A	7.5	A	7.7	
Northbound Approach	В	11.1	В	11.6	
Southbound Approach	В	12.7	В	11.7	
, 1 <u>U</u>	= Level of Service vis measured in sec	onds.			



Table 5 - Continued CAPACITY ANALYSIS RESULTS – UNSIGNALIZED – YEAR 2028 PROJECTED CONDITIONS

	Weekda Peal	Weekday Evening Peak Hour						
Intersection	LOS	Delay	LOS	Delay				
Root Street with the Proposed Site Access Dri	ive <sup>1</sup>							
Eastbound Left Turn	A	7.7	A	7.7				
Southbound Approach	A	9.9	В	10.5				
Princeton Avenue with the North Proposed A	ccess Drive1							
Eastbound Approach	A	9.3	A	8.9				
Northbound Left Turn	A	7.8	A	8.2				
Princeton Avenue with the South Proposed A	ccess Drive <sup>1</sup>							
Eastbound Approach	A	8.9	A	8.9				
Northbound Left Turn	A	7.3	A	7.2				
1 – Two-Way Stop Sign Control LOS = Level of Service 2 – All-Way Stop Sign Control Delay is measured in seconds.								



#### Discussion and Recommendations

The following summarizes how the intersections are projected to operate and identifies any street and traffic control improvements necessary to accommodate the development-generated traffic.

#### Pershing Road with Normal Avenue

The results of the capacity analysis indicate that overall, this intersection currently operates at LOS A during the weekday morning peak hour and LOS B during the weekday evening peak hour Furthermore, all the intersection movements operate at LOS B or better during both peak hours.

Under Year 2028 total projected conditions, this intersection overall is projected to operate at LOS B during both peak hours with increases in delay of less than one second. Furthermore, all the intersection movements are projected to continue to operate at LOS B or better during both peak hours. As such, this intersection has sufficient reserve capacity to accommodate the traffic estimated to be generated by the proposed development and no street improvements or traffic signal modifications will be required.

#### Pershing Road with Princeton Avenue

The results of the capacity analysis indicate that the northbound approach at this intersection operates At LOS C during the weekday morning and weekday evening peak hours. Further, the westbound left turn movement operates at LOS B or better during both peak hours.

Under Year 2028 total projected conditions, the northbound approach is projected to continue to operate at LOS C during both peak hours with increases in delay of approximately two seconds or less. Further, the westbound left turn movement is projected to operate at LOS A during both peak hours. As such, this intersection has sufficient reserve capacity to accommodate the traffic estimated to be generated by the proposed development and no street improvements or traffic control modifications will be required.

#### Pershing Road with Wells Street

The results of the capacity analysis indicate that this all-way stop sign control intersection currently operate at an overall LOS C during the weekday morning and weekday evening peak hours. It should be noted that the eastbound approach currently operates at LOS D during the weekday morning peak hour. This delay is the result of the high volume of existing through traffic on Pershing Road.

Under Year 2028 total projected conditions, this intersection is projected to continue to operate at LOS C during both peak hours with increases in delay of approximately four seconds. Further, all intersection approaches are projected to continue to operate at the same LOS during both peak hours. As such, this intersection has sufficient reserve capacity to accommodate the traffic estimated to be generated by the proposed development and no street improvements or traffic control modifications will be required.



#### Root Street with Normal Avenue

The results of the capacity analysis indicate that this all-way stop sign control intersection currently operate at an overall LOS A during the weekday morning and weekday evening peak hours. Further, all intersection approaches operate at LOS A during both peak hours.

Under Year 2028 total projected conditions, this intersection is projected to continue to operate LOS A during both peak hours with increases in delay of less than one second. Further, all intersection approaches are projected to operate at LOS B or better during both peak hours. As such, this intersection has sufficient reserve capacity to accommodate the traffic estimated to be generated by the proposed development and no street improvements or traffic control modifications will be required.

#### Root Street with Princeton Avenue

The results of the capacity analysis indicate that this all-way stop sign control intersection currently operate at an overall LOS A during the weekday morning and weekday evening peak hours. Further, all intersection approaches operate at LOS A during both peak hours.

Under Year 2028 total projected conditions, this intersection is projected to continue to operate LOS A during both peak hours with increases in delay of less than one second. Further, all intersection approaches are projected to continue to operate at LOS A during both peak hours. As such, this intersection has sufficient reserve capacity to accommodate the traffic estimated to be generated by the proposed development and no street improvements or traffic control modifications will be required.

#### Root Street with Wells Street

The results of the capacity analysis indicate that the northbound and southbound approaches at this intersection operate At LOS B during the weekday morning and weekday evening peak hours. Further, the eastbound and westbound left turn movements operate at LOS A during both peak hours.

Under Year 2028 total projected conditions, the northbound and southbound approaches are projected to continue to operate at LOS B during both peak hours with increases in delay of less than one second. Further, the eastbound and westbound left turn movements are projected to continue to operate at LOS A during both peak hours. As such, this intersection has sufficient reserve capacity to accommodate the traffic estimated to be generated by the proposed development and no street improvements or traffic control modifications will be required.

#### Root Street with the Proposed Site Access Drive

As proposed, a full movement access drive will be provided on Root Street located approximately 585 feet west of Princeton Road. This access drive will provide one inbound lane and one outbound lane with outbound movements under stop sign control. This access drive will serve employees only.



The results of the capacity analysis indicate that outbound movements from the access drive to Root Street are projected to operate at LOS A during the weekday morning peak hour and LOS B during the weekday evening peak hour. Further, the eastbound left-turn movement from Root Street to the access drive is projected to operate at LOS A during both peak hours. As such, this access drive will be adequate in accommodating the traffic generated by the development.

#### Princeton Avenue with the North Proposed Site Access Drive

As proposed, a full movement access drive will be provided on Princeton Avenue located approximately 725 feet south of Pershing Road. This access drive will provide one inbound lane and one outbound lane wide enough to accommodate truck turning movements. Outbound movements will be under stop sign control. This access drive will serve employees and trucks.

The results of the capacity analysis indicate that outbound movements from the access drive to Princeton Avenue are projected to operate at LOS A during the weekday morning and weekday evening peak hours. Further, the northbound left-turn movement from Princeton Avenue to the access drive is projected to operate at LOS A during both peak hours. As such, this access drive will be adequate in accommodating the traffic generated by the development.

#### Princeton Avenue with the South Proposed Site Access Drive

As proposed, a full movement access drive will be provided on Princeton Avenue located approximately 655 feet north of Root Street. This access drive will provide one inbound lane and one outbound lane with outbound movements under stop sign control. This access drive will serve employees only.

The results of the capacity analysis indicate that outbound movements from the access drive to Princeton Avenue are projected to operate at LOS A during the weekday morning and weekday evening peak hours. Further, the northbound left-turn movement from Princeton Avenue to the access drive is projected to operate at LOS A during both peak hours. As such, this access drive will be adequate in accommodating the traffic generated by the development.



## 6. Conclusion

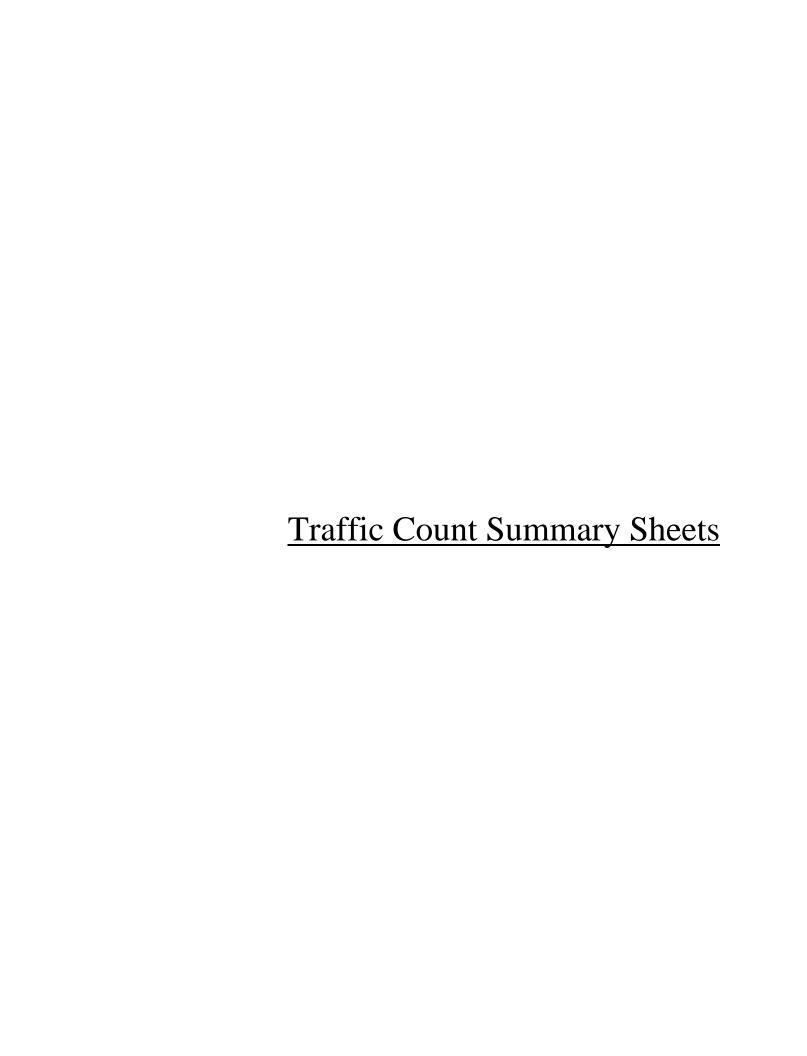
Based on the preceding analyses and recommendations, the following conclusions have been made:

- Access to the development is proposed to be provided as follows:
  - O A full movement access drive on the north side of Root Street located approximately 585 feet west of Princeton Road. This access drive will provide one inbound lane and one outbound lane with outbound movements under stop sign control. This access drive will serve passenger vehicles only.
  - A full movement access drive on the west side of Princeton Avenue located approximately 725 feet south of Pershing Road. This access drive will provide one inbound lane and one outbound lane wide enough to accommodate truck turning movements. Outbound movements will be under stop sign control. This access drive will serve passenger vehicles and trucks.
  - A full movement access drive on the west side of Princeton Avenue located approximately 655 feet north of Root Street. This access drive will provide one inbound lane and one outbound lane with outbound movements under stop sign control. This access drive will serve passenger vehicles only.
- The truck traffic generated by the development is anticipated to have a limited impact on the street system as the majority of truck traffic is expected to arrive and depart the site outside of peak hours.
- Given the low clearance of the viaducts on Princeton Avenue (north of the site) and Root Street (west of the site), all truck traffic will approach and depart the site to and from the east via Root Street.
- Area intersections have sufficient reserve capacity to accommodate the traffic estimated to be generated by the proposed development and no roadway improvements or traffic control modifications are required.
- The proposed access system will be adequate in accommodating the traffic estimated to be generated by the development.



# Appendix

Traffic Count Summary Sheets
Preliminary Site Plan
ITE Trip Generation Worksheets
Level of Service Criteria
Capacity Analysis Summary Sheets





Kenig Lindgren O'Hara Aboona, Inc. 9575 W. Higgins Rd., Suite 400

Rosemont, Illinois, United States 60018 (847)518-9990

Count Name: Pershing Road with Normal Avenue Site Code: Start Date: 04/27/2021 Page No: 1

### **Turning Movement Data**

0. 17		Pershing Road Eastbound				Pershing Road Westbound					Normal Avenue Northbound			
Start Time	Thru	Right	App. Total	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Left	Right	Peds	App. Total	Int. Total
6:00 AM	81	1	82	0	2	102	0	104	0	2	4	0	6	192
6:15 AM	96	0	96	0	3	117	0	120	0	1	4	0	5	221
6:30 AM	101	2	103	0	2	140	0	142	0	2	3	0	5	250
6:45 AM	93	0	93	0	6	157	0	163	0	2	4	0	6	262
Hourly Total	371	3	374	0	13	516	0	529	0	7	15	0	22	925
7:00 AM	107	2	109	0	2	110	0	112	0	3	6	0	9	230
7:15 AM	119	0	119	0	1	135	0	136	0	3	. 1	0	4	259
7:30 AM	158	3	161	0	5	110	0	115	0	4	4	0	8	284
7:45 AM	134	1	135	0	3	129	0	132	0	6	7	0	13	280
Hourly Total	518	6	524	0	11	484	0	495	0	16	18	0	34	1053
8:00 AM	88	2	90	0	3	128	0	131	0	3	6	0	9	230
8:15 AM	102	3	105	0	5	109	0	114	0	2	7	0	9	228
8:30 AM	112	2	114	0	2	118	. 0	120	0	0	6	. 0	6	240
8:45 AM	92	2	94	0	4	122	0	126	0	2	1	0	3	223
Hourly Total	394	9	403	0	14	477	0	491	0	7	20	0	27	921
*** BREAK ***	-	_	-	-	-			-		-				-
3:00 PM	144	5	149	0	4	134	0	138	0	8	8	0	16	303
3:15 PM	161	2	163	0	5	158	1	163	0	9	4	0	13	339
3:30 PM	184	3	187	0	2	187	. 0	189	0	6	2	. 0	8	384
3:45 PM	111	4	115	0	5	182	2	187	0	6	4	0	10	312
Hourly Total	600	14	614	0	16	661	3	677	0	29	18	0	47	1338
4:00 PM	132	3	135	0	12	169	2	181	0	5	6	0	. 11	327
4:15 PM	101	0	101	0	8	183	0	191	0	7	2	0	9	301
4:30 PM	127	1	128	0	11	169	1	180	0	5	3	2	8	316
4:45 PM	103	2	105	0	7	191	. 1	198	0	4	4	0	8	311
Hourly Total	463	6	469	0	38	712	4	750	0	21	15	2	36	1255
5:00 PM	100	1	101	0	6	183	0	189	0	5	8	0	13	303
5:15 PM	100	0	100	0	5	170	0	175	0	5	4	0	9	284
5:30 PM	99	2	101	0	6	180	2	186	0	10	5	0	15	302
5:45 PM	72	2	74	0	6	182	1	188	0	3	3	0	6	268
Hourly Total	371	5	376	0	23	715	3	738	0	23	20	0	43	1157
Grand Total	2717	43	2760	0	115	3565	10	3680	0	103	106	2	209	6649
Approach %	98.4	1.6	-	0.0	3.1	96.9	-	-	0.0	49.3	50.7	-	-	-
Total %	40.9	0.6	41.5	0.0	1.7	53.6	-	55.3	0.0	1.5	1.6	-	3.1	-
Lights	2274	38	2312	0	82	3095	-	3177	0	98	86	-	184	5673
% Lights	83.7	88.4	83.8	-	71.3	86.8		86.3	-	95.1	81.1	-	88.0	85.3

Buses	56	0	56	0	1	60	-	61	0	0	1	-	1	118
% Buses	2.1	0.0	2.0	-	0.9	1.7	-	1.7	-	0.0	0.9	-	0.5	1.8
Single-Unit Trucks	177	2	179	0	17	162	-	179	0	3	14	-	17	375
% Single-Unit Trucks	6.5	4.7	6.5	-	14.8	4.5	-	4.9	-	2.9	13.2	-	8.1	5.6
Articulated Trucks	210	3	213	0	13	248	-	261	0	1	5	-	6	480
% Articulated Trucks	7.7	7.0	7.7	-	11.3	7.0	-	7.1	-	1.0	4.7	-	2.9	7.2
Bicycles on Road	0	0	0	0	2	0	-	2	0	1	0	-	1	3
% Bicycles on Road	0.0	0.0	0.0	-	1.7	0.0	-	0.1	-	1.0	0.0	-	0.5	0.0
Pedestrians	-	-	-	-	-	-	10	-	-	-	-	2	-	-
% Pedestrians	-	-	-	-	-	-	100.0	-	-	-	-	100.0	-	-



Rosemont, Illinois, United States 60018 (847)518-9990

Count Name: Pershing Road with Normal Avenue Site Code: Start Date: 04/27/2021 Page No: 3

		Pershing Road			3	Pershing Road		Jaia (7.00	'		Normal Avenue			
Start Time		Eastbound				Westbound					Northbound			i
Start Time	Thru	Right	App. Total	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Left	Right	Peds	App. Total	Int. Total
7:30 AM	158	3	161	0	5	110	0	115	0	. 4	4	. 0	. 8	284
7:45 AM	134	1	135	0	3	129	0	132	0	6	7	0	13	280
8:00 AM	88	2	90	0	3	128	0	131	0	3	6	0	9	230
8:15 AM	102	3	105	0	5	109	0	114	0	2	. 7	0	9	228
Total	482	9	491	0	16	476	0	492	0	15	24	0	39	1022
Approach %	98.2	1.8	-	0.0	3.3	96.7	-	-	0.0	38.5	61.5	-	-	-
Total %	47.2	0.9	48.0	0.0	1.6	46.6	-	48.1	0.0	1.5	2.3	-	3.8	-
PHF	0.763	0.750	0.762	0.000	0.800	0.922	-	0.932	0.000	0.625	0.857	-	0.750	0.900
Lights	370	6	376	0	11	394	-	405	0	15	16	-	31	812
% Lights	76.8	66.7	76.6	-	68.8	82.8	-	82.3	-	100.0	66.7	-	79.5	79.5
Buses	11	0	11	0	0	5	-	5	0	0	0	-	0	16
% Buses	2.3	0.0	2.2	-	0.0	1.1	-	1.0	-	0.0	0.0	-	0.0	1.6
Single-Unit Trucks	44	0	44	0	3	35	-	38	0	0	5	-	5	87
% Single-Unit Trucks	9.1	0.0	9.0	-	18.8	7.4	-	7.7	-	0.0	20.8	-	12.8	8.5
Articulated Trucks	57	3	60	0	2	42	-	44	0	0	3	-	3	107
% Articulated Trucks	11.8	33.3	12.2	-	12.5	8.8	-	8.9	-	0.0	12.5	-	7.7	10.5
Bicycles on Road	0	0	0	0	0	0	-	0	0	0	0	_	0	0
% Bicycles on Road	0.0	0.0	0.0	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	0.0
Pedestrians	-	-	-	-	-	-	0	-	-	-	-	0	-	-
% Pedestrians	-	-	-	-	-	-	-	-	-	_	-	_	-	-



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Count Name: Pershing Road with Normal Avenue Site Code: Start Date: 04/27/2021 Page No: 4

					ing wood	incin i cc	alt i loui L	Jula (+.00	, 1 101)					
		Pershing Road				Pershing Road					Normal Avenue			i
Start Time		Eastbound				Westbound					Northbound			i
Start Time	Thru	Right	App. Total	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Left	Right	Peds	App. Total	Int. Total
4:00 PM	132	3	135	0	12	169	2	181	0	5	6	0	11	327
4:15 PM	101	0	101	0	8	183	0	191	0	7	2	0	9	301
4:30 PM	127	1	128	0	11	169	1	180	0	5	3	2	8	316
4:45 PM	103	2	105	0	. 7	191	1	198	0	4	4	0	8	311
Total	463	6	469	0	38	712	4	750	0	21	15	2	36	1255
Approach %	98.7	1.3	-	0.0	5.1	94.9	-	-	0.0	58.3	41.7	-	-	-
Total %	36.9	0.5	37.4	0.0	3.0	56.7	_	59.8	0.0	1.7	1.2	_	2.9	-
PHF	0.877	0.500	0.869	0.000	0.792	0.932	-	0.947	0.000	0.750	0.625	-	0.818	0.959
Lights	430	6	436	0	22	629	-	651	0	21	15	-	36	1123
% Lights	92.9	100.0	93.0	-	57.9	88.3	_	86.8	-	100.0	100.0	_	100.0	89.5
Buses	11	0	11	0	0	17	-	17	0	0	0	-	0	28
% Buses	2.4	0.0	2.3	-	0.0	2.4	-	2.3	-	0.0	0.0	-	0.0	2.2
Single-Unit Trucks	10	0	10	0	9	26	-	35	0	0	0	_	0	45
% Single-Unit Trucks	2.2	0.0	2.1	-	23.7	3.7	-	4.7	-	0.0	0.0	-	0.0	3.6
Articulated Trucks	12	0	12	0	6	40	-	46	0	0	0	-	0	58
% Articulated Trucks	2.6	0.0	2.6	-	15.8	5.6	_	6.1	-	0.0	0.0	_	0.0	4.6
Bicycles on Road	0	0	0	0	1	0	-	1	0	0	0	-	0	1
% Bicycles on Road	0.0	0.0	0.0	-	2.6	0.0	-	0.1	-	0.0	0.0	-	0.0	0.1
Pedestrians	-	-	-	-	_	_	4	_	-	-	-	2	-	-
% Pedestrians	-	-	-	-	-	-	100.0	-	-	-	-	100.0	-	-



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Count Name: Pershing Road with Wells Street Site Code: Start Date: 06/21/2022 Page No: 1

	1		Pershing Road			''	mig wio	Pershing Road	Julu				Wells Street			
			Eastbound					Westbound					Northbound			
Start Time	U-Turn	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Left	Right	Peds	App. Total	Int. Total
6:00 AM	0	82	0	0	82	0	7	123	2	130	0	2	4	0	6	218
6:15 AM	0	103	2	1	105	0	13	124	0	137	0	0	6	0	6	248
6:30 AM	0	77	0	1	77	0	8	155	0	163	0	2	4	0	6	246
6:45 AM	0	93	1	0	94	0	9	127	0	136	0	1	8	1	9	239
Hourly Total	0	355	3	2	358	0	37	529	2	566	0	5	22	1	27	951
7:00 AM	0	98	0	1	98	0	3	118	0	121	0	1	2	0	3	222
7:15 AM	0	112	1	0	113	0	3	101	1	104	0	0	9	1	9	226
7:30 AM	0	117	3	0	120	0	10	112	0	122	0	2	9	0	11	253
7:45 AM	0	115	1	0	116	0	8	142	0	150	0	2	8	0	10	276
Hourly Total	0	442	5	1	447	0	24	473	1	497	0	5	28	1	33	977
8:00 AM	0	113	5	0	118	0	10	118	2	128	0	1	12	1	13	259
8:15 AM	0	101	7	2	108	0	8	121	3	129	0	3	6	2	9	246
8:30 AM	0	92	3	0	95	0	10	121	3	131	0	4	8	0	12	238
8:45 AM	0	92	0	0	92	0	8	142	6	150	0	3	6	0	9	251
Hourly Total	0	398	15	2	413	0	36	502	14	538	0	11	32	3	43	994
*** BREAK ***	-	-	<u>-</u>	-	-	-	-	-	-	<u>-</u>	•	-	-	-	-	-
3:00 PM	0	133	2	6	135	0	10	172	1	182	0	3	4	0	7	324
3:15 PM	0	102	2	2	104	0	17	181	9	198	0	1	6	7	7	309
3:30 PM	0	170	0	1	170	0	10	185	6	195	0	3	9	4	12	377
3:45 PM	0	128	1	0	129	0	16	188	3	204	0	3	3	1	6	339
Hourly Total	0	533	5	9	538	0	53	726	19	779	0	10	22	12	32	1349
4:00 PM	0	124	4	4	128	0	16	204	3	220	0	1	6	2	7	355
4:15 PM	0	103	1	0	104	0	12	193	1	205	0	5	9	0	14	323
4:30 PM	0	131	1	0	132	0	13	217	5	230	0	0	8	3	8	370
4:45 PM	0	101	6	1	107	0	24	198	4	222	0	2	11	0	13	342
Hourly Total	0	459	12	5	471	0	65	812	13	877	0	8	34	5	42	1390
5:00 PM	0	109	2	6	111	0	9	226	2	235	0	2	4	1	6	352
5:15 PM	0	110	4	5	114	0	7	180	12	187	0	0	9	4	9	310
5:30 PM	0	88	0	3	88	0	13	203	2	216	0	4	8	2	12	316
5:45 PM	0	115	5	2	120	0	8	209	3	217	0	2	6	3	8	345
Hourly Total	0	422	11	16	433	0	37	818	19	855	0	8	27	10	35	1323
Grand Total	0	2609	51	35	2660	0	252	3860	68	4112	0	47	165	32	212	6984
Approach %	0.0	98.1	1.9	-	-	0.0	6.1	93.9	-	-	0.0	22.2	77.8	-	-	-
Total %	0.0	37.4	0.7	-	38.1	0.0	3.6	55.3	-	58.9	0.0	0.7	2.4	-	3.0	-
Lights	0	2188	47	-	2235	0	238	3439	-	3677	0	45	158	-	203	6115
% Lights	-	83.9	92.2	-	84.0	-	94.4	89.1	-	89.4	-	95.7	95.8	-	95.8	87.6

Buses	0	51	0	-	51	0	0	42	-	42	0	0	0	-	0	93
% Buses	-	2.0	0.0	-	1.9	-	0.0	1.1	-	1.0	-	0.0	0.0	-	0.0	1.3
Single-Unit Trucks	0	192	4	-	196	0	10	189	-	199	0	2	7	-	9	404
% Single-Unit Trucks	-	7.4	7.8	-	7.4	-	4.0	4.9	-	4.8	-	4.3	4.2	-	4.2	5.8
Articulated Trucks	0	174	0	-	174	0	3	190	-	193	0	0	0	-	0	367
% Articulated Trucks	-	6.7	0.0	-	6.5	-	1.2	4.9	-	4.7	-	0.0	0.0	-	0.0	5.3
Bicycles on Road	0	4	0	-	4	0	1	0	-	1	0	0	0	-	0	5
% Bicycles on Road	-	0.2	0.0	-	0.2	-	0.4	0.0	-	0.0	-	0.0	0.0	-	0.0	0.1
Pedestrians	-	-	-	35	-	-	-	-	68	-	-	-	-	32	-	-
% Pedestrians	-	-	-	100.0	-	-	-	-	100.0	-	-	-	-	100.0	-	-



Rosemont, Illinois, United States 60018 (847)518-9990

Count Name: Pershing Road with Wells Street Site Code: Start Date: 06/21/2022 Page No: 3

					runni	j ivioveli	HOIR I G	ak i loui	Dala (1.	JU AIVI)						
			Pershing Road					Pershing Road					Wells Street			
Ot and Time a			Eastbound					Westbound					Northbound			
Start Time	U-Turn	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Left	Right	Peds	App. Total	Int. Total
7:30 AM	0	117	3	0	120	0	10	112	0	122	0	2	9	0	11	253
7:45 AM	0	115	1	0	116	0	8	142	0	150	0	2	8	0	10	276
8:00 AM	0	113	5	0	118	0	10	118	2	128	0	1	12	1	13	259
8:15 AM	0	101	7	2	108	0	8	121	3	129	0	3	6	2	9	246
Total	0	446	16	2	462	0	36	493	5	529	0	8	35	3	43	1034
Approach %	0.0	96.5	3.5	-	-	0.0	6.8	93.2	-	-	0.0	18.6	81.4	-	-	-
Total %	0.0	43.1	1.5	-	44.7	0.0	3.5	47.7	-	51.2	0.0	0.8	3.4	-	4.2	-
PHF	0.000	0.953	0.571	-	0.963	0.000	0.900	0.868	-	0.882	0.000	0.667	0.729	-	0.827	0.937
Lights	0	337	13	-	350	0	32	423	-	455	0	7	31	-	38	843
% Lights	-	75.6	81.3	-	75.8	-	88.9	85.8	-	86.0	-	87.5	88.6	-	88.4	81.5
Buses	0	12	0	-	12	0	0	8	-	8	0	0	0	-	0	20
% Buses	-	2.7	0.0	-	2.6	-	0.0	1.6	-	1.5	-	0.0	0.0	-	0.0	1.9
Single-Unit Trucks	0	57	3	_	60	0	3	32		35	0	1	4	-	5	100
% Single-Unit Trucks	-	12.8	18.8	-	13.0	-	8.3	6.5	-	6.6	-	12.5	11.4	-	11.6	9.7
Articulated Trucks	0	40	0	-	40	0	1	30	-	31	0	0	0	-	0	71
% Articulated Trucks	-	9.0	0.0	_	8.7	-	2.8	6.1	_	5.9	-	0.0	0.0	_	0.0	6.9
Bicycles on Road	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Bicycles on Road	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	0.0
Pedestrians	-	-		2	-	-	-	-	5	-	-	-	<u>-</u>	3	_	-
% Pedestrians	-	-	-	100.0	-	-	-	-	100.0	-	-	-	-	100.0	-	-



Rosemont, Illinois, United States 60018 (847)518-9990

Count Name: Pershing Road with Wells Street Site Code: Start Date: 06/21/2022 Page No: 4

	i				runni	inioneli	ICHT L C	ak Houi	Dala (4.	OO FIVI)						
			Pershing Road					Pershing Road					Wells Street			ĺ
Otant Time			Eastbound					Westbound					Northbound			İ
Start Time	U-Turn	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Left	Right	Peds	App. Total	Int. Total
4:00 PM	0	124	4	4	128	0	16	204	3	220	0	1	6	2	7	355
4:15 PM	0	103	1	0	104	0	12	193	1	205	0	5	9	0	14	323
4:30 PM	0	131	1	0	132	0	13	217	5	230	0	0	8	3	8	370
4:45 PM	0	101	6	1	107	0	24	198	4	222	0	2	11	0	13	342
Total	0	459	12	5	471	0	65	812	13	877	0	8	34	5	42	1390
Approach %	0.0	97.5	2.5	-	-	0.0	7.4	92.6	-	-	0.0	19.0	81.0	-	-	-
Total %	0.0	33.0	0.9	-	33.9	0.0	4.7	58.4	-	63.1	0.0	0.6	2.4	-	3.0	-
PHF	0.000	0.876	0.500	-	0.892	0.000	0.677	0.935	-	0.953	0.000	0.400	0.773	-	0.750	0.939
Lights	0	432	12	-	444	0	63	738	-	801	0	8	34	-	42	1287
% Lights	-	94.1	100.0	-	94.3	-	96.9	90.9	-	91.3	-	100.0	100.0	-	100.0	92.6
Buses	0	5	0	-	5	0	0	7	-	7	0	0	0	-	0	12
% Buses	-	1.1	0.0	-	1.1	-	0.0	0.9	-	0.8	-	0.0	0.0	-	0.0	0.9
Single-Unit Trucks	0	14	0	-	14	0	1	33	-	34	0	0	0	-	0	48
% Single-Unit Trucks	-	3.1	0.0	-	3.0	-	1.5	4.1	-	3.9	-	0.0	0.0	-	0.0	3.5
Articulated Trucks	0	8	0	-	8	0	1	34	-	35	0	0	0	-	0	43
% Articulated Trucks	-	1.7	0.0	-	1.7	-	1.5	4.2	-	4.0	-	0.0	0.0	-	0.0	3.1
Bicycles on Road	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Bicycles on Road	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	0.0
Pedestrians	-	-		5	-	-	-		13	_	-	-	_	5		-
% Pedestrians	-	-		100.0	-	-	-		100.0	-	-	-	_	100.0		-



Rosemont, Illinois, United States 60018 (847)518-9990

Count Name: Princeton Avenue with Pershing Road Site Code: Start Date: 06/21/2022 Page No: 1

							9									
			Pershing Road					Pershing Road					Princeton Street			
0			Eastbound					Westbound					Northbound			
Start Time	U-Turn	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Left	Right	Peds	App. Total	Int. Total
6:00 AM	0	74	5	0	79	0	8	109	0	117	0	2	3	0	5	201
6:15 AM	0	93	3	0	96	0	6	123	0	129	0	4	7	1	11	236
6:30 AM	0	91	0	0	91	0	3	143	0	146	0	2	2	1	4	241
6:45 AM	0	86	2	0	88	0	3	145	0	148	0	3	3	1	6	242
Hourly Total	0	344	10	0	354	0	20	520	0	540	0	11	15	3	26	920
7:00 AM	0	93	0	0	93	0	1	105	0	106	0	2	1	3	3	202
7:15 AM	0	115	6	0	121	0	2	112	0	114	0	4	2	0	6	241
7:30 AM	0	109	2	0	111	0	2	105	0	107	0	1	2	0	3	221
7:45 AM	0	109	3	0	112	0	5	137	0	142	0	1	7	0	8	262
Hourly Total	0	426	11	0	437	0	10	459	0	469	0	8	12	3	20	926
8:00 AM	0	124	2	0	126	0	0	125	0	125	0	4	4	0	8	259
8:15 AM	0	99	3	0	102	0	2	120	0	122	0	1	3	0	4	228
8:30 AM	0	80	4	0	84	0	3	118	0	121	0	3	9	0	12	217
8:45 AM	0	96	0	1	96	0	3	135	0	138	0	3	2	0	5	239
Hourly Total	0	399	9	1	408	0	8	498	0	506	0	11	18	0	29	943
*** BREAK ***	-	-		-		-	-		-	-	-	-	-	-	-	-
3:00 PM	0	121	4	0	125	0	2	180	4	182	0	2	3	0	5	312
3:15 PM	0	109	3	0	112	0	1	182	0	183	0	6	2	1	8	303
3:30 PM	0	157	2	0	159	0	1	181	2	182	0	8	1	2	9	350
3:45 PM	0	115	1	0	116	0	4	191	4	195	0	5	5	0	10	321
Hourly Total	0	502	10	0	512	0	8	734	10	742	0	21	11	3	32	1286
4:00 PM	0	124	2	0	126	0	2	209	1	211	0	9	1	0	10	347
4:15 PM	0	116	2	0	118	0	2	198	0	200	0	6	0	0	6	324
4:30 PM	0	123	4	1	127	0	1	210	0	211	0	2	5	1	7	345
4:45 PM	0	102	5	0	107	0	2	213	2	215	0	7	5	1	12	334
Hourly Total	0	465	13	1	478	0	7	830	3	837	0	24	11	2	35	1350
5:00 PM	0	104	4	0	108	0	1	212	0	213	0	5	2	0	7	328
5:15 PM	0	111	2	1	113	0	2	193	2	195	0	1	0	1	. 1	309
5:30 PM	0	90	2	7	92	0	1	200	2	201	0	1	. 2	5	3	296
5:45 PM	0	120	4	2	124	0	0	215	4	215	0	2	2	3	4	343
Hourly Total	0	425	12	10	437	0	4	820	8	824	0	9	6	9	15	1276
Grand Total	0	2561	65	12	2626	0	57	3861	21	3918	0	84	73	20	157	6701
Approach %	0.0	97.5	2.5	-	-	0.0	1.5	98.5	-	-	0.0	53.5	46.5	-	-	-
Total %	0.0	38.2	1.0	-	39.2	0.0	0.9	57.6	-	58.5	0.0	1.3	1.1	-	2.3	-
Lights	0	2142	57	-	2199	0	47	3442	-	3489	0	83	61	-	144	5832
% Lights	-	83.6	87.7	-	83.7	-	82.5	89.1	-	89.1	-	98.8	83.6	-	91.7	87.0

Buses	0	48	2	-	50	0	0	42	-	42	0	0	0	-	0	92
% Buses	-	1.9	3.1	-	1.9	-	0.0	1.1	-	1.1	-	0.0	0.0	-	0.0	1.4
Single-Unit Trucks	0	197	3	-	200	0	1	199	-	200	0	1	5	-	6	406
% Single-Unit Trucks	-	7.7	4.6	-	7.6	-	1.8	5.2	-	5.1	-	1.2	6.8	-	3.8	6.1
Articulated Trucks	0	170	3	-	173	0	9	176	-	185	0	0	7	-	7	365
% Articulated Trucks	-	6.6	4.6	-	6.6	-	15.8	4.6	-	4.7	-	0.0	9.6	-	4.5	5.4
Bicycles on Road	0	4	0	-	4	0	0	2	-	2	0	0	0	-	0	6
% Bicycles on Road	-	0.2	0.0	-	0.2	-	0.0	0.1	-	0.1	-	0.0	0.0	-	0.0	0.1
Pedestrians	-	-	-	12	-	-	-	-	21	-	-	-	-	20	-	-
% Pedestrians	-	-	-	100.0	-	-	-	_	100.0	-	_	_	_	100.0	-	-



Rosemont, Illinois, United States 60018 (847)518-9990

Count Name: Princeton Avenue with Pershing Road Site Code: Start Date: 06/21/2022 Page No: 3

					1 4111111	9 1410 4011	101111 00	ait i ioai i	Juliu (1.	.00 / ((1))						
			Pershing Road					Pershing Road		-			Princeton Street			
Start Time			Eastbound					Westbound					Northbound			
Start Time	U-Turn	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Left	Right	Peds	App. Total	Int. Total
7:30 AM	0	109	2	0	111	0	2	105	0	107	0	1	2	0	3	221
7:45 AM	0	109	3	0	112	0	5	137	0	142	0	1	7	0	8	262
8:00 AM	0	124	2	0	126	0	0	125	0	125	0	4	4	0	8	259
8:15 AM	0	99	3	0	102	0	2	120	0	122	0	1	3	0	4	228
Total	0	441	10	0	451	0	9	487	0	496	0	7	16	0	23	970
Approach %	0.0	97.8	2.2	-	-	0.0	1.8	98.2	-	-	0.0	30.4	69.6	-	-	-
Total %	0.0	45.5	1.0	-	46.5	0.0	0.9	50.2	-	51.1	0.0	0.7	1.6	-	2.4	-
PHF	0.000	0.889	0.833	-	0.895	0.000	0.450	0.889	-	0.873	0.000	0.438	0.571	-	0.719	0.926
Lights	0	335	8	-	343	0	5	419	-	424	0	7	12	-	19	786
% Lights	-	76.0	80.0	-	76.1	-	55.6	86.0	-	85.5	-	100.0	75.0	-	82.6	81.0
Buses	0	11	1	-	12	0	0	8	-	8	0	0	0	-	0	20
% Buses	-	2.5	10.0	-	2.7	-	0.0	1.6	-	1.6	-	0.0	0.0	-	0.0	2.1
Single-Unit Trucks	0	58	1	-	59	0	0	34	-	34	0	0	2	-	2	95
% Single-Unit Trucks	-	13.2	10.0	-	13.1	-	0.0	7.0	-	6.9	-	0.0	12.5	-	8.7	9.8
Articulated Trucks	0	37	0	-	37	0	4	25	-	29	0	0	2	-	2	68
% Articulated Trucks	-	8.4	0.0	-	8.2	-	44.4	5.1	-	5.8	-	0.0	12.5	-	8.7	7.0
Bicycles on Road	0	0	0	-	0	0	0	1	-	1	0	0	0	-	0	1
% Bicycles on Road	-	0.0	0.0	-	0.0	-	0.0	0.2	-	0.2	-	0.0	0.0	-	0.0	0.1
Pedestrians	-	-	-	0	-	-	_	-	0	-	-	-	-	0	-	-
% Pedestrians	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Rosemont, Illinois, United States 60018 (847)518-9990

Count Name: Princeton Avenue with Pershing Road Site Code: Start Date: 06/21/2022 Page No: 4

					runni	y woven		ak i ioui	Dala (4.	00 1 101)						
			Pershing Road					Pershing Road					Princeton Street	t		
O:T			Eastbound					Westbound					Northbound			[
Start Time	U-Turn	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Left	Right	Peds	App. Total	Int. Total
4:00 PM	0	124	2	0	126	0	2	209	1	211	0	9	1	0	10	347
4:15 PM	0	116	2	0	118	0	2	198	0	200	0	6	0	0	6	324
4:30 PM	0	123	4	1	127	0	1	210	0	211	0	2	5	1	7	345
4:45 PM	0	102	5	0	107	0	2	213	2	215	0	7	5	1	12	334
Total	0	465	13	1	478	0	7	830	3	837	0	24	11	2	35	1350
Approach %	0.0	97.3	2.7	-	-	0.0	0.8	99.2	-	-	0.0	68.6	31.4	-	-	-
Total %	0.0	34.4	1.0	-	35.4	0.0	0.5	61.5	-	62.0	0.0	1.8	0.8	-	2.6	-
PHF	0.000	0.938	0.650	-	0.941	0.000	0.875	0.974	-	0.973	0.000	0.667	0.550	-	0.729	0.973
Lights	0	438	13	-	451	0	7	749	-	756	0	24	11	-	35	1242
% Lights	-	94.2	100.0	-	94.4	-	100.0	90.2	-	90.3	-	100.0	100.0	-	100.0	92.0
Buses	0	4	0	-	4	0	0	8	-	8	0	0	0	-	0	12
% Buses	-	0.9	0.0	-	0.8	-	0.0	1.0	-	1.0	-	0.0	0.0	-	0.0	0.9
Single-Unit Trucks	0	12	0	-	12	0	0	39	-	39	0	0	0	-	0	51
% Single-Unit Trucks	-	2.6	0.0	-	2.5	-	0.0	4.7	-	4.7	-	0.0	0.0	-	0.0	3.8
Articulated Trucks	0	11	0	-	11	0	0	34	-	34	0	0	0	-	0	45
% Articulated Trucks	-	2.4	0.0	-	2.3	-	0.0	4.1	-	4.1	-	0.0	0.0	-	0.0	3.3
Bicycles on Road	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Bicycles on Road	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	0.0
Pedestrians	-	-	-	1	-	-	-	-	3	-	-	-	-	2	-	-
% Pedestrians	-	-	-	100.0	-	-	-	-	100.0	-	-	-	-	100.0	-	-



Rosemont, Illinois, United States 60018 (847)518-9990

Count Name: Root Street with Normal Avenue Site Code: Start Date: 04/27/2021 Page No: 1

			Root	Street					Root	Street	9			utu	Normal	Avenue					Normal	Avenue			
			Eastb	ound					West	bound					North	bound					South	bound			
Start Time	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	Int. Total
6:00 AM	0	2	30	0	2	32	0	0	20	2	0	22	0	1	1	1	0	3	0	2	0	0	0	2	59
6:15 AM	0	1	16	1	0	18	0	0	29	2	0	31	0	3	3	1	0	7	0	1	0	0	0	1	57
6:30 AM	0	2	18	0	0	20	0	0	26	1	0	27	0	3	1	1	0	5	0	0	0	0	0	0	52
6:45 AM	0	1	23	1	1	25	0	1	37	2	0	40	0	3	3	2	0	. 8	0	1	0	1	0	2	75
Hourly Total	0	6	87	2	3	95	0	1	112	7	0	120	0	10	8	5	0	23	0	4	0	1	0	5	243
7:00 AM	0	3	34	1	1	38	0	0	24	1	0	25	0	1	1	2	0	4	0	1	1	1	0	3	70
7:15 AM	0	0	22	1	0	23	0	0	21	1	. 1	22	0	4	3	3	1	10	0	3	2	2	0	7	62
7:30 AM	0	1	17	2	0	20	0	2	32	5	0	39	0	3	3	3	1	9	0	0	2	0	0	2	70
7:45 AM	0	3	29	0	1	32	0	5	27	2	1	34	0	3	4	3	1	10	0	2	2	1	1	5	81
Hourly Total	0	7	102	4	2	113	0	7	104	9	2	120	0	11	11	11	3	33	0	6	7	4	1	17	283
8:00 AM	0	3	12	0	0	15	0	1	35	1	1	37	0	3	5	2	0	10	0	2	1	0	0	3	65
8:15 AM	0	2	24	1	0	27	0	0	34	0	0	34	0	4	2	2	3	8	0	1	1	0	0	2	71
8:30 AM	0	1	18	2	0	21	0	0	20	1	1	21	0	3	2	0	1	5	0	1	3	1	0	5	52
8:45 AM	0	1	27	1	1	29	0	1	26	3	1	30	0	4	2	2	3	8	0	2	0	2	1	4	71
Hourly Total	0	7	81	4	1	92	0	2	115	5	3	122	0	14	11	6	7	31	0	6	5	3	1	14	259
*** BREAK ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3:00 PM	0	2	45	3	0	50	0	0	22	0	0	22	0	5	9	2	2	16	0	2	2	2	0	6	94
3:15 PM	0	2	40	6	1	48	0	3	36	5	0	44	0	5	6	1	0	12	0	0	3	1	0	4	108
3:30 PM	0	3	50	6	1	59	0	5	23	1	1	29	0	3	3	2	0	8	0	0	4	1	0	5	101
3:45 PM	1	2	33	7	0	43	0	0	24	4	2	28	0	3	4	1	0	8	0	1	4	1	0	6	85
Hourly Total	1	9	168	22	2	200	0	8	105	10	3	123	0	16	22	6	2	44	0	3	13	5	0	21	388
4:00 PM	0	1	33	4	2	38	0	1	57	2	0	60	0	2	3	0	2	5	0	3	5	4	0	12	115
4:15 PM	0	3	30	4	0	37	0	1	31	2	0	34	0	5	4	0	0	9	0	4	1	7	0	12	92
4:30 PM	0	1	34	10	0	45	1	2	35	1	0	39	0	4	9	1	0	14	0	2	5	2	1	9	107
4:45 PM	0	2	25	4	2	31	0	4	17	1	1	22	0	10	6	0	1	16	0	1	5	4	0	10	79
Hourly Total	0	7	122	22	4	151	1	8	140	6	1	155	0	21	22	1	3	44	0	10	16	17	1	43	393
5:00 PM	0	4	30	6	2	40	0	2	34	4	0	40	0	5	6	0	6	11	0	6	4	3	0	13	104
5:15 PM	0	2	31	3	1	36	0	3	28	2	0	33	0	0	5	0	3	5	0	3	1	3	0	7	81
5:30 PM	0	2	23	3	0	28	0	4	24	0	0	28	0	5	9	0	4	14	0	1	4	1	0	6	76
5:45 PM	0	2	31	3	2	36	0	2	30	2	0	34	0	3	6	1	2	10	0	0	5	2	0	7	87
Hourly Total	0	10	115	15	5	140	0	11	116	8	0	135	0	13	26	1	15	40	0	10	14	9	0	33	348
Grand Total	1	46	675	69	17	791	1	37	692	45	9	775	0	85	100	30	30	215	0	39	55	39	3	133	1914
Approach %	0.1	5.8	85.3	8.7	-	-	0.1	4.8	89.3	5.8	-	-	0.0	39.5	46.5	14.0	-	-	0.0	29.3	41.4	29.3	-	-	-
Total %	0.1	2.4	35.3	3.6	-	41.3	0.1	1.9	36.2	2.4	-	40.5	0.0	4.4	5.2	1.6	-	11.2	0.0	2.0	2.9	2.0	-	6.9	-
Lights	1	41	588	65	_	695	1	36	607	40	_	684	0	83	91	28	-	202	0	32	50	32	-	114	1695

% Lights	100.0	89.1	87.1	94.2	-	87.9	100.0	97.3	87.7	88.9	-	88.3	-	97.6	91.0	93.3	-	94.0	-	82.1	90.9	82.1	-	85.7	88.6
Buses	0	0	55	0	-	55	0	0	39	2	-	41	0	0	1	1	-	2	0	0	0	0	-	0	98
% Buses	0.0	0.0	8.1	0.0	-	7.0	0.0	0.0	5.6	4.4	-	5.3	-	0.0	1.0	3.3	-	0.9	-	0.0	0.0	0.0	-	0.0	5.1
Single-Unit Trucks	0	1	27	1	-	29	0	0	31	0	-	31	0	1	3	0	-	4	0	3	0	2	-	5	69
% Single-Unit Trucks	0.0	2.2	4.0	1.4	-	3.7	0.0	0.0	4.5	0.0	-	4.0	1	1.2	3.0	0.0	-	1.9	1	7.7	0.0	5.1	-	3.8	3.6
Articulated Trucks	0	2	3	0	-	5	0	0	10	2	-	12	0	1	3	0	-	4	0	4	2	4	-	10	31
% Articulated Trucks	0.0	4.3	0.4	0.0	-	0.6	0.0	0.0	1.4	4.4	-	1.5	-	1.2	3.0	0.0	-	1.9	-	10.3	3.6	10.3	-	7.5	1.6
Bicycles on Road	0	2	2	3	-	7	0	1	5	1	-	7	0	0	2	1	-	3	0	0	3	1	-	4	21
% Bicycles on Road	0.0	4.3	0.3	4.3	-	0.9	0.0	2.7	0.7	2.2	-	0.9	-	0.0	2.0	3.3	-	1.4	-	0.0	5.5	2.6	-	3.0	1.1
Pedestrians	-	-	-	-	17	-	-	-	-	-	9	-	-	-	-	-	30	-	-	-	-	-	3	-	-
% Pedestrians	_	-	-	-	100.0	-	-	-	-	-	100.0	-	_	_	_	_	100.0	_	-	-	_	_	100.0	_	-



Rosemont, Illinois, United States 60018 (847)518-9990

Count Name: Root Street with Normal Avenue Site Code: Start Date: 04/27/2021 Page No: 3

raining woverners reak i	our Data (1.00 / tivi)	i e
Root Street	Normal Avenue	Normal Avenue
Westbound	Northbound	Southbound
Left Thru Right Peds App.	U-Turn Left Thru Right Peds App. Total	U-Turn Left Thru Right Peds App. Int. Total
2 32 5 0 39	0 3 3 3 1 9	0 0 2 0 0 2 70
5 27 2 1 34	0 3 4 3 1 10	0 2 2 1 1 5 81
1 35 1 1 37	0 3 5 2 0 10	0 2 1 0 0 3 65
0 34 0 0 34	0 4 2 2 3 8	0 1 1 0 0 2 71
8 128 8 2 144	0 13 14 10 5 37	0 5 6 1 1 12 287
5.6 88.9 5.6	0.0 35.1 37.8 27.0	0.0 41.7 50.0 8.3
2.8 44.6 2.8 - 50.2	0.0 4.5 4.9 3.5 - 12.9	0.0 1.7 2.1 0.3 - 4.2 -
0.400 0.914 0.400 - 0.923	0.000 0.813 0.700 0.833 - 0.925	0.000 0.625 0.750 0.250 - 0.600 0.886
8 115 8 - 131	0 13 13 9 - 35	0 4 5 0 - 9 243
100.0 89.8 100.0 - 91.0	- 100.0 92.9 90.0 - 94.6	- 80.0 83.3 0.0 - 75.0 84.7
0 5 0 - 5	0 0 0 1 - 1	0 0 0 0 - 0 20
0.0 3.9 0.0 - 3.5	- 0.0 0.0 10.0 - 2.7	- 0.0 0.0 0.0 - 0.0 7.0
0 5 0 - 5	0 0 0 0 - 0	0 0 0 0 - 0 14
0.0 3.9 0.0 - 3.5	- 0.0 0.0 0.0 - 0.0	- 0.0 0.0 0.0 - 0.0 4.9
0 2 0 - 2	0 0 1 0 - 1	0 1 1 1 - 3 8
0.0 1.6 0.0 - 1.4	- 0.0 7.1 0.0 - 2.7	- 20.0 16.7 100.0 - 25.0 2.8
0 1 0 - 1	0 0 0 0 - 0	0 0 0 0 - 0 2
0.0 0.8 0.0 - 0.7	- 0.0 0.0 0.0 - 0.0	- 0.0 0.0 0.0 - 0.0 0.7
2 -	5 -	1
100.0 -	100.0 -	100.0
Left 2 5 1 0 8 5.6 2.8 0.400 0 0.0 0 0.0 0 0.0	Root Street Westbound  Thru Right Peds App. Total  32 5 0 39 27 2 1 34 35 1 1 37 34 0 0 34 128 8 2 144 88.9 5.6 44.6 2.8 - 50.2 0.914 0.400 - 0.923 115 8 - 131 89.8 100.0 - 91.0 5 0 - 5 3.9 0.0 - 5 3.9 0.0 - 3.5 5 0 - 5 3.9 0.0 - 3.5 2 0 - 2 1.6 0.0 - 1.4 1 0 - 1 0.8 0.0 - 0.7	Westbound         App. Total         U-Turn         Left         Thru         Right         Peds         App. Total           32         5         0         39         0         3         3         1         9           27         2         1         34         0         3         4         3         1         10           35         1         1         37         0         3         5         2         0         10           34         0         0         34         0         4         2         2         3         8           128         8         2         144         0         13         14         10         5         37           88.9         5.6         -         -         0.0         35.1         37.8         27.0         -         -           44.6         2.8         -         50.2         0.0         4.5         4.9         3.5         -         12.9           0.914         0.400         -         0.923         0.000         0.813         0.700         0.833         -         0.925           115         8         -         131



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Count Name: Root Street with Normal Avenue Site Code: Start Date: 04/27/2021 Page No: 4

								ian	mig iv	/IOVCII	icit i	Carri	loai	Data	(4.00	1 141/									1
			Root	Street					Root	Street					Normal	Avenue					Normal	Avenue			
			Easth	oound					West	bound					North	bound					South	bound			
Start Time	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	Int. Total
4:00 PM	0	1	33	4	2	38	0	1	57	2	0	60	0	2	3	0	2	5	0	3	5	4	0	12	115
4:15 PM	0	3	30	4	0	37	0	1	31	2	0	34	0	5	4	0	0	9	0	4	1	7	0	12	92
4:30 PM	0	1	34	10	0	45	1	2	35	1	0	39	0	4	9	1	0	14	0	2	5	2	1	9	107
4:45 PM	0	2	25	4	2	31	0	4	17	1	1	22	0	10	6	0	1	16	0	1	5	4	0	10	79
Total	0	7	122	22	4	151	1	8	140	6	1	155	0	21	22	1	3	44	0	10	16	17	1	43	393
Approach %	0.0	4.6	80.8	14.6	-	-	0.6	5.2	90.3	3.9	-	-	0.0	47.7	50.0	2.3	-	-	0.0	23.3	37.2	39.5	-	-	-
Total %	0.0	1.8	31.0	5.6	-	38.4	0.3	2.0	35.6	1.5	-	39.4	0.0	5.3	5.6	0.3	-	11.2	0.0	2.5	4.1	4.3	-	10.9	-
PHF	0.000	0.583	0.897	0.550		0.839	0.250	0.500	0.614	0.750		0.646	0.000	0.525	0.611	0.250	_	0.688	0.000	0.625	0.800	0.607	_	0.896	0.854
Lights	0	6	117	20	_	143	1	7	121	6	_	135	0	21	20	1	_	42	0	8	12	14	_	34	354
% Lights	-	85.7	95.9	90.9		94.7	100.0	87.5	86.4	100.0	-	87.1	-	100.0	90.9	100.0	-	95.5		80.0	75.0	82.4	-	79.1	90.1
Buses	0	0	4	0		4	0	0	10	0		10	0	0	0	0		0	0	0	0	0		0	14
% Buses	_	0.0	3.3	0.0		2.6	0.0	0.0	7.1	0.0		6.5	-	0.0	0.0	0.0		0.0	_	0.0	0.0	0.0		0.0	3.6
Single-Unit Trucks	0	0.0	0.5	1		1	0.0	0.0	5	0.0		5	0	0.0	1	0.0		1	0	0.0	0.0	1		1	8
	0					'							0						-						
% Single-Unit Trucks	-	0.0	0.0	4.5	-	0.7	0.0	0.0	3.6	0.0	-	3.2	-	0.0	4.5	0.0	-	2.3	-	0.0	0.0	5.9	-	2.3	2.0
Articulated Trucks	0	0	0	0	-	0	0	0	2	0	-	2	0	0	0	0	-	0	0	2	1	1	-	4	6
% Articulated Trucks	-	0.0	0.0	0.0	-	0.0	0.0	0.0	1.4	0.0	-	1.3	-	0.0	0.0	0.0	-	0.0	-	20.0	6.3	5.9	-	9.3	1.5
Bicycles on Road	0	1	1	1	-	3	0	1	2	0	-	3	0	0	1	0	-	1	0	0	3	1	-	4	11
% Bicycles on Road	-	14.3	0.8	4.5	-	2.0	0.0	12.5	1.4	0.0	-	1.9	-	0.0	4.5	0.0	-	2.3	-	0.0	18.8	5.9	-	9.3	2.8
Pedestrians	-	-	-	-	4	-	-	-	-	_	1	-	-	-	-	-	3	-	-	-	-	-	1	-	-
% Pedestrians	-	-	-	-	100.0	-	-	-	-	-	100.0	-	-	-	-	-	100.0	-	-	-	-	-	100.0	-	-



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Count Name: Root Street with Princeton Road Site Code: Start Date: 06/21/2022 Page No: 1

			Eastbo Eastb							ound St. bound						ound St. bound					Southbo South	ound St. bound			
Start Time	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	Int. Total
6:00 AM	0	3	33	2	0	38	0	0	31	2	0	33	0	2	1	0	0	3	0	0	1	0	0	1	75
6:15 AM	0	3	20	2	1	25	0	0	36	1	0	37	0	2	2	1	0	5	0	2	0	0	0	2	69
6:30 AM	0	1	22	1	1	24	0	1	28	4	1	33	0	6	0	1	1	7	0	0	0	1	0	1	65
6:45 AM	0	1	33	0	0	34	0	0	27	1	0	28	0	5	1	2	0	8	0	1	0	0	0	1	71
Hourly Total	0	8	108	5	2	121	0	1	122	8	1	131	0	15	4	4	1	23	0	3	1	1	0	5	280
7:00 AM	0	2	17	3	0	22	0	1	27	0	0	28	0	1	0	1	0	2	0	1	0	0	0	1	53
7:15 AM	0	0	22	4	0	26	1	0	17	0	0	18	0	0	2	2	0	4	0	1	1	0	0	2	50
7:30 AM	0	2	23	0	0	25	0	1	20	2	0	23	0	4	1	1	0	6	0	1	0	1	0	2	56
7:45 AM	0	1	29	2	0	32	0	2	30	2	1	34	0	4	2	1	0	7	0	1	0	2	0	3	76
Hourly Total	0	5	91	9	0	105	1	4	94	4	. 1	103	0	9	5	5	0	19	0	4	1	3	0	8	235
8:00 AM	0	1	15	2	0	18	0	1	21	1	0	23	0	3	1	2	0	6	0	2	0	1	0	3	50
8:15 AM	0	1	28	1	0	30	0	2	33	1	0	36	0	4	0	2	0	6	0	0	1	1	0	2	74
8:30 AM	0	3	20	1	0	24	0	1	23	0	0	24	0	4	0	1	0	5	0	1	0	0	0	1	54
8:45 AM	0	0	17	3	0	20	0	2	30	0	0	32	0	1	1	1	0	3	0	1	0	0	0	1	56
Hourly Total	0	5	80	7	0	92	0	6	107	2	0	115	0	12	2	6	0	20	0	4	1	2	0	7	234
*** BREAK ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3:00 PM	0	0	41	3	0	44	0	4	30	2	0	36	0	4	0	2	0	6	0	1	0	2	1	3	89
3:15 PM	0	1	26	5	0	32	0	5	46	2	1	53	0	3	2	2	0	7	0	4	0	2	0	6	98
3:30 PM	0	0	32	4	0	36	0	4	35	1	1	40	0	3	1	3	1	7	0	4	0	1	0	5	88
3:45 PM	0	1	24	2	0	27	1	3	34	0	2	38	0	4	4	6	2	14	0	4	1	1	0	6	85
Hourly Total	0	2	123	14	0	139	1	16	145	5	4	167	0	14	7	13	3	34	0	13	1	6	1	20	360
4:00 PM	0	1	32	4	0	37	0	6	49	2	7	57	0	5	0	5	0	10	0	0	1	2	0	3	107
4:15 PM	0	1	31	2	0	34	0	5	42	3	3	50	0	5	2	5	1	12	0	2	1	0	0	3	99
4:30 PM	0	2	34	4	0	40	0	2	40	5	2	47	0	2	0	0	1	2	0	0	0	1	0	1	90
4:45 PM	0	0	24	5	0	29	0	2	41	3	1	46	0	2	0	1	0	3	0	3	0	1	2	4	82
Hourly Total	0	4	121	15	0	140	0	15	172	13	13	200	0	14	2	11	2	27	0	5	2	4	2	11	378
5:00 PM	0	1	42	4	0	47	0	5	39	1	1	45	0	3	2	2	1	7	0	3	0	1	0	4	103
5:15 PM	0	0	22	3	0	25	1	3	34	0	1	38	0	3	0	3	0	6	0	1	0	1	1	2	71
5:30 PM	0	0	23	4	0	27	0	3	29	1	0	33	0	3	2	0	0	5	0	0	0	0	0	0	65
5:45 PM	0	1	14	2	0	17	0	3	26	1	1	30	0	3	1	5	0	9	0	1	0	1	0	2	58
Hourly Total	0	2	101	13	0	116	1	14	128	3	3	146	0	12	5	10	1	27	0	5	0	3	1	8	297
Grand Total	0	26	624	63	2	713	3	56	768	35	22	862	0	76	25	49	7	150	0	34	6	19	4	59	1784
Approach %	0.0	3.6	87.5	8.8	-	-	0.3	6.5	89.1	4.1	-	-	0.0	50.7	16.7	32.7	-	-	0.0	57.6	10.2	32.2	-	-	-
Total %	0.0	1.5	35.0	3.5	-	40.0	0.2	3.1	43.0	2.0	-	48.3	0.0	4.3	1.4	2.7	-	8.4	0.0	1.9	0.3	1.1	-	3.3	T -
Lights	0	22	531	43	-	596	3	52	674	28	-	757	0	54	24	46	-	124	0	24	6	18	-	48	1525

% Lights	-	84.6	85.1	68.3	-	83.6	100.0	92.9	87.8	80.0	-	87.8	-	71.1	96.0	93.9	-	82.7	-	70.6	100.0	94.7	-	81.4	85.5
Buses	0	0	38	18	-	56	0	1	25	0	-	26	0	20	0	0	-	20	0	0	0	0	-	0	102
% Buses	-	0.0	6.1	28.6	-	7.9	0.0	1.8	3.3	0.0	-	3.0	-	26.3	0.0	0.0	-	13.3	-	0.0	0.0	0.0	-	0.0	5.7
Single-Unit Trucks	0	2	32	1	-	35	0	0	39	2	-	41	0	1	0	1	-	2	0	2	0	1	-	3	81
% Single-Unit Trucks	-	7.7	5.1	1.6	-	4.9	0.0	0.0	5.1	5.7	-	4.8	-	1.3	0.0	2.0	-	1.3	1	5.9	0.0	5.3	-	5.1	4.5
Articulated Trucks	0	2	17	0	-	19	0	0	25	4	-	29	0	0	1	0	-	1	0	8	0	0	-	8	57
% Articulated Trucks	-	7.7	2.7	0.0	-	2.7	0.0	0.0	3.3	11.4	-	3.4	-	0.0	4.0	0.0	-	0.7	-	23.5	0.0	0.0	-	13.6	3.2
Bicycles on Road	0	0	6	1	-	7	0	3	5	1	-	9	0	1	0	2	-	3	0	0	0	0	-	0	19
% Bicycles on Road	-	0.0	1.0	1.6	-	1.0	0.0	5.4	0.7	2.9	-	1.0	-	1.3	0.0	4.1	-	2.0	-	0.0	0.0	0.0	-	0.0	1.1
Pedestrians	-	-	-	-	2	-	-	-	-	-	22	-	-	-	-	-	7	-	-	-	-	-	4	-	-
% Pedestrians	-	-	-	_	100.0	-	_	_			100.0	-	-	-		-	100.0		_	-			100.0		-



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Count Name: Root Street with Princeton Road Site Code: Start Date: 06/21/2022 Page No: 3

				i		3		-				(7.30	,			ı						1
Eastbou	ınd St.					Westbo	ound St.					Northbo	ound St.					Southbo	ound St.			
Eastbo	ound					Westl	bound					North	bound					South	bound			
Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	Int. Total
23	0	0	25	0	1	20	2	0	23	0	4	1	1	0	6	0	1	0	1	0	2	56
29	2	0	32	0	2	30	2	1	34	0	4	2	1	0	7	0	1	0	2	0	3	76
15	2	0	18	0	1	21	1	0	23	0	3	1	2	0	6	0	2	0	1	0	3	50
28	1	0	30	0	2	33	1	0	36	0	4	0	2	0	6	0	0	1	1	0	2	74
95	5	0	105	0	6	104	6	1	116	0	15	4	6	0	25	0	4	1	5	0	10	256
90.5	4.8	-	-	0.0	5.2	89.7	5.2	-	-	0.0	60.0	16.0	24.0	-	-	0.0	40.0	10.0	50.0	-	-	-
37.1	2.0	-	41.0	0.0	2.3	40.6	2.3	-	45.3	0.0	5.9	1.6	2.3	-	9.8	0.0	1.6	0.4	2.0	-	3.9	-
0.819		-	0.820	0.000		0.788		-	0.806	0.000		0.500		-	0.893	0.000	0.500			-		0.842
64	3	-	71	0	5	98	1	-	104	0	13	4	6	-	23	0	0	1	4	-	5	203
67.4	60.0	-	67.6	-	83.3	94.2	16.7	-	89.7	-	86.7	100.0	100.0	-	92.0	-	0.0	100.0	80.0	-	50.0	79.3
	-			0	1	1	0	_		0		0	-	_	2	0	-	-	0	_	-	20
-		_			16.7	1.0	0.0	_		-		0.0		_	8.0				0.0	_		7.8
	0	_		0	0		1	-	3	0		0		_	0	0			1	-	1	18
13.7	0.0	-	13.3	-	0.0	1.9	16.7	-	2.6	-	0.0	0.0	0.0	-	0.0	-	0.0	0.0	20.0	-	10.0	7.0
4	0	-	4	0	0	3	4	-	7	0	0	0	0	-	0	0	4	0	0	-	4	15
4.2	0.0	-	3.8	-	0.0	2.9	66.7	-	6.0	-	0.0	0.0	0.0	-	0.0	-	100.0	0.0	0.0	-	40.0	5.9
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	0.0	0.0	-	0.0	-	0.0	0.0	0.0	-	0.0	-	0.0	0.0	0.0	-	0.0	0.0
-	-	0	-	-	-	-	-	1	-	-	-		-	0	_	-	-	-	-	0	-	-
-	-	-	-	-	-	-	-	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Eastboth Thru 23 29 15 28 95 37.1 0.819 64 67.4 14.7 13 13.7 4 4.2 0	23 0 29 2 15 2 28 1 95 5 90.5 4.8 37.1 2.0 0.819 0.625 64 3 67.4 60.0 14 2 14.7 40.0 13 0 13.7 0.0 4 0 4.2 0.0	Eastbound           Thru         Right         Peds           23         0         0           29         2         0           15         2         0           28         1         0           95         5         0           90.5         4.8         -           37.1         2.0         -           0.819         0.625         -           64         3         -           67.4         60.0         -           14         2         -           14.7         40.0         -           13.7         0.0         -           4         0         -           4.2         0.0         -           0         0         -           0.0         0.0         -	Eastbound           Thru         Right         Peds         App. Total           23         0         0         25           29         2         0         32           15         2         0         18           28         1         0         30           95         5         0         105           90.5         4.8         -         -           37.1         2.0         -         41.0           0.819         0.625         -         0.820           64         3         -         71           67.4         60.0         -         67.6           14         2         -         16           14.7         40.0         -         15.2           13         0         -         14           13.7         0.0         -         13.3           4         0         -         4           4.2         0.0         -         3.8           0         0         -         0.0           0.0         0         -         0.0	Eastbound         App. Total         U-Turn           23         0         0         25         0           29         2         0         32         0           15         2         0         18         0           28         1         0         30         0           95         5         0         105         0           90.5         4.8         -         -         0.0           37.1         2.0         -         41.0         0.0           0.819         0.625         -         0.820         0.000           64         3         -         71         0           67.4         60.0         -         67.6         -           14         2         -         16         0           14.7         40.0         -         15.2         -           13         0         -         14         0           13.7         0.0         -         13.3         -           4         0         -         4         0           4.2         0.0         -         3.8         -           0 <td< td=""><td>Eastbound         App. Total         U-Turn         Left           23         0         0         25         0         1           29         2         0         32         0         2           15         2         0         18         0         1           28         1         0         30         0         2           95         5         0         105         0         6           90.5         4.8         -         -         0.0         5.2           37.1         2.0         -         41.0         0.0         2.3           0.819         0.625         -         0.820         0.000         0.750           64         3         -         71         0         5           67.4         60.0         -         67.6         -         83.3           14         2         -         16         0         1           14.7         40.0         -         15.2         -         16.7           13         0         -         14         0         0           4         0         -         4         0</td><td>Eastbound         West           Thru         Right         Peds         App. Total Total         U-Turn         Left         Thru           23         0         0         25         0         1         20           29         2         0         32         0         2         30           15         2         0         18         0         1         21           28         1         0         30         0         2         33           95         5         0         105         0         6         104           90.5         4.8         -         -         0.0         5.2         89.7           37.1         2.0         -         41.0         0.0         2.3         40.6           0.819         0.625         -         0.820         0.000         0.750         0.788           64         3         -         71         0         5         98           67.4         60.0         -         67.6         -         83.3         94.2           14         2         -         16         0         1         1</td><td>Eastbound         Right         Peds         App. Total Total         U-Turn         Left         Thru         Right           23         0         0         25         0         1         20         2           29         2         0         32         0         2         30         2           15         2         0         18         0         1         21         1           28         1         0         30         0         2         33         1           95         5         0         105         0         6         104         6           90.5         4.8         -         -         0.0         5.2         89.7         5.2           37.1         2.0         -         41.0         0.0         2.3         40.6         2.3           37.1         2.0         -         41.0         0.0         2.3         40.6         2.3           37.1         2.0         -         41.0         0.0         2.3         40.6         2.3           38.1         0.625         -         0.820         0.000         0.750         0.788         0.750</td><td>Eastbound         Right         Peds         App. Total Total         U-Turn         Left         Thru         Right         Peds           23         0         0         25         0         1         20         2         0           29         2         0         32         0         2         30         2         1           15         2         0         18         0         1         21         1         0           28         1         0         30         0         2         33         1         0           95         5         0         105         0         6         104         6         1           90.5         4.8         -         -         0.0         5.2         89.7         5.2         -           37.1         2.0         -         41.0         0.0         2.3         40.6         2.3         -           0.819         0.625         -         0.820         0.000         0.750         0.788         0.750         -           64         3         -         71         0         5         98         1         -</td><td>Eastbound         Right         Peds         App. Total Total         U-Turn         Left         Thru         Right         Peds         App. Total Total           23         0         0         25         0         1         20         2         0         23           29         2         0         32         0         2         30         2         1         34           15         2         0         18         0         1         21         1         0         23           28         1         0         30         0         2         33         1         0         36           95         5         0         105         0         6         104         6         1         116           90.5         4.8         -         -         0.0         5.2         89.7         5.2         -         -         -           37.1         2.0         -         41.0         0.0         2.3         40.6         2.3         -         45.3           0.819         0.625         -         0.820         0.000         0.750         0.788         0.750         -         0.806</td><td>Eastbound         Right         Peds         App. Total Total         U-Turn         Left         Thru         Right         Peds         App. Total Total Total Total         U-Turn           23         0         0         25         0         1         20         2         0         23         0           29         2         0         32         0         2         30         2         1         34         0           15         2         0         18         0         1         21         1         0         23         0           28         1         0         30         0         2         33         1         0         36         0           95         5         0         105         0         6         104         6         1         116         0           90.5         4.8         -         -         0.0         5.2         89.7         5.2         -         -         0.0           37.1         2.0         -         41.0         0.0         2.3         40.6         2.3         -         45.3         0.0           0.819         0.625         -</td><td>Eastbound         Right         Peds         App. Total Total         U-Turn         Left         Thru         Right         Peds         App. Total Total         U-Turn         Left           23         0         0         25         0         1         20         2         0         23         0         4           29         2         0         32         0         2         30         2         1         34         0         4           15         2         0         18         0         1         21         1         0         23         0         3           28         1         0         30         0         2         33         1         0         36         0         4           95         5         0         105         0         6         104         6         1         116         0         15           90.5         4.8         -         -         0.0         5.2         89.7         5.2         -         -         0.0         0           37.1         2.0         -         41.0         0.0         2.3         40.6         2.3         -</td></td<> <td>  North  Thru   Right   Peds   App.   U-Turn   Left   Thru   Right   Peds   App.   Total   Thru   Left   Thru   Right   Peds   App.   Total   Thru   Left   Thru   Right   Peds   App.   Total   Thru   Left   Thru   Thru   Left   Thru   Left   Thru   Right   Peds   App.   Total   Thru   T</td> <td>Eastborner         Right         Peds         App. Total         U-Turn         Left         Thru         Right           23         0         25         0         1         20         2         0         23         0         4         1         1           15         2         0         18         0         1         21         1         0         23         0         3         1         2           28         1         0         30         0         2         33         1         0         36         0         4         0         2           95         5         0         105         0         6         104         6         1         116         0         15         4         6           90.5         4.8         -         -         0.0         5.2         89.7         5.2         -         -         0.0         60.0</td> <td>  Right   Peds   App.   D-Turn   Left   Thru   Left   Thru   Right   Peds   D-Turn   Left   Thru   Left   Thru   Right   Peds   D-Turn   Left   Thru   Left   Thru   D-Turn   Left   Thru   Left   Thru   D-Turn   Left   Thru   Left   Thru   D-Turn   Left   Thru   D-Turn   Left   Thru   Left   Thru   D-Turn   D-Turn   Left   Thru   D-Turn   D-Turn</td> <td>  No.</td> <td>  Figure   F</td> <td>  Thru</td> <td>  No.   No.</td> <td>  Figure   F</td> <td>  Fig.   /td> <td>  Thi</td>	Eastbound         App. Total         U-Turn         Left           23         0         0         25         0         1           29         2         0         32         0         2           15         2         0         18         0         1           28         1         0         30         0         2           95         5         0         105         0         6           90.5         4.8         -         -         0.0         5.2           37.1         2.0         -         41.0         0.0         2.3           0.819         0.625         -         0.820         0.000         0.750           64         3         -         71         0         5           67.4         60.0         -         67.6         -         83.3           14         2         -         16         0         1           14.7         40.0         -         15.2         -         16.7           13         0         -         14         0         0           4         0         -         4         0	Eastbound         West           Thru         Right         Peds         App. Total Total         U-Turn         Left         Thru           23         0         0         25         0         1         20           29         2         0         32         0         2         30           15         2         0         18         0         1         21           28         1         0         30         0         2         33           95         5         0         105         0         6         104           90.5         4.8         -         -         0.0         5.2         89.7           37.1         2.0         -         41.0         0.0         2.3         40.6           0.819         0.625         -         0.820         0.000         0.750         0.788           64         3         -         71         0         5         98           67.4         60.0         -         67.6         -         83.3         94.2           14         2         -         16         0         1         1	Eastbound         Right         Peds         App. Total Total         U-Turn         Left         Thru         Right           23         0         0         25         0         1         20         2           29         2         0         32         0         2         30         2           15         2         0         18         0         1         21         1           28         1         0         30         0         2         33         1           95         5         0         105         0         6         104         6           90.5         4.8         -         -         0.0         5.2         89.7         5.2           37.1         2.0         -         41.0         0.0         2.3         40.6         2.3           37.1         2.0         -         41.0         0.0         2.3         40.6         2.3           37.1         2.0         -         41.0         0.0         2.3         40.6         2.3           38.1         0.625         -         0.820         0.000         0.750         0.788         0.750	Eastbound         Right         Peds         App. Total Total         U-Turn         Left         Thru         Right         Peds           23         0         0         25         0         1         20         2         0           29         2         0         32         0         2         30         2         1           15         2         0         18         0         1         21         1         0           28         1         0         30         0         2         33         1         0           95         5         0         105         0         6         104         6         1           90.5         4.8         -         -         0.0         5.2         89.7         5.2         -           37.1         2.0         -         41.0         0.0         2.3         40.6         2.3         -           0.819         0.625         -         0.820         0.000         0.750         0.788         0.750         -           64         3         -         71         0         5         98         1         -	Eastbound         Right         Peds         App. Total Total         U-Turn         Left         Thru         Right         Peds         App. Total Total           23         0         0         25         0         1         20         2         0         23           29         2         0         32         0         2         30         2         1         34           15         2         0         18         0         1         21         1         0         23           28         1         0         30         0         2         33         1         0         36           95         5         0         105         0         6         104         6         1         116           90.5         4.8         -         -         0.0         5.2         89.7         5.2         -         -         -           37.1         2.0         -         41.0         0.0         2.3         40.6         2.3         -         45.3           0.819         0.625         -         0.820         0.000         0.750         0.788         0.750         -         0.806	Eastbound         Right         Peds         App. Total Total         U-Turn         Left         Thru         Right         Peds         App. Total Total Total Total         U-Turn           23         0         0         25         0         1         20         2         0         23         0           29         2         0         32         0         2         30         2         1         34         0           15         2         0         18         0         1         21         1         0         23         0           28         1         0         30         0         2         33         1         0         36         0           95         5         0         105         0         6         104         6         1         116         0           90.5         4.8         -         -         0.0         5.2         89.7         5.2         -         -         0.0           37.1         2.0         -         41.0         0.0         2.3         40.6         2.3         -         45.3         0.0           0.819         0.625         -	Eastbound         Right         Peds         App. Total Total         U-Turn         Left         Thru         Right         Peds         App. Total Total         U-Turn         Left           23         0         0         25         0         1         20         2         0         23         0         4           29         2         0         32         0         2         30         2         1         34         0         4           15         2         0         18         0         1         21         1         0         23         0         3           28         1         0         30         0         2         33         1         0         36         0         4           95         5         0         105         0         6         104         6         1         116         0         15           90.5         4.8         -         -         0.0         5.2         89.7         5.2         -         -         0.0         0           37.1         2.0         -         41.0         0.0         2.3         40.6         2.3         -	North  Thru   Right   Peds   App.   U-Turn   Left   Thru   Right   Peds   App.   Total   Thru   Left   Thru   Right   Peds   App.   Total   Thru   Left   Thru   Right   Peds   App.   Total   Thru   Left   Thru   Thru   Left   Thru   Left   Thru   Right   Peds   App.   Total   Thru   T	Eastborner         Right         Peds         App. Total         U-Turn         Left         Thru         Right           23         0         25         0         1         20         2         0         23         0         4         1         1           15         2         0         18         0         1         21         1         0         23         0         3         1         2           28         1         0         30         0         2         33         1         0         36         0         4         0         2           95         5         0         105         0         6         104         6         1         116         0         15         4         6           90.5         4.8         -         -         0.0         5.2         89.7         5.2         -         -         0.0         60.0	Right   Peds   App.   D-Turn   Left   Thru   Left   Thru   Right   Peds   D-Turn   Left   Thru   Left   Thru   Right   Peds   D-Turn   Left   Thru   Left   Thru   D-Turn   Left   Thru   Left   Thru   D-Turn   Left   Thru   Left   Thru   D-Turn   Left   Thru   D-Turn   Left   Thru   Left   Thru   D-Turn   D-Turn   Left   Thru   D-Turn   D-Turn	No.	Figure   F	Thru	No.   No.	Figure   F	Fig.   Fig.	Thi



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Count Name: Root Street with Princeton Road Site Code: Start Date: 06/21/2022 Page No: 4

							1	run	mig iv	IOVEII	ICIIL I	can	loui	Dala	(4.00	1 1V1 <i>)</i>									
			Eastbo	ound St.					Westbo	ound St.					Northbo	ound St.					Southbo	ound St.			
			Easth	bound					West	bound					North	bound					South	bound			
Start Time	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	Int. Total
4:00 PM	0	1	32	4	0	37	0	6	49	2	7	57	0	5	0	5	0	10	0	0	1	2	0	3	107
4:15 PM	0	1	31	2	0	34	0	5	42	3	3	50	0	5	2	5	1	12	0	2	1	0	0	3	99
4:30 PM	0	2	34	4	0	40	0	2	40	5	2	47	0	2	0	0	1	2	0	0	0	1	0	1	90
4:45 PM	0	0	24	5	0	29	0	2	41	3	1	46	0	2	0	1	0	3	0	3	0	1	2	4	82
Total	0	4	121	15	0	140	0	15	172	13	13	200	0	14	2	11	2	27	0	5	2	4	2	11	378
Approach %	0.0	2.9	86.4	10.7	-	-	0.0	7.5	86.0	6.5	-	-	0.0	51.9	7.4	40.7	-	-	0.0	45.5	18.2	36.4	-	-	-
Total %	0.0	1.1	32.0	4.0	-	37.0	0.0	4.0	45.5	3.4	-	52.9	0.0	3.7	0.5	2.9	-	7.1	0.0	1.3	0.5	1.1	-	2.9	-
PHF	0.000	0.500	0.890	0.750	-	0.875	0.000	0.625	0.878	0.650	-	0.877	0.000	0.700	0.250	0.550	-	0.563	0.000	0.417	0.500	0.500	-	0.688	0.883
Lights	0	3	120	11	-	134	0	15	150	13	-	178	0	10	2	11	-	23	0	4	2	4	-	10	345
% Lights	-	75.0	99.2	73.3	-	95.7	-	100.0	87.2	100.0	-	89.0	-	71.4	100.0	100.0	-	85.2	-	80.0	100.0	100.0	-	90.9	91.3
Buses	0	0	1	4	-	5	0	0	7	0	-	7	0	3	0	0	-	3	0	0	0	0	-	0	15
% Buses	-	0.0	0.8	26.7	-	3.6	-	0.0	4.1	0.0	-	3.5	-	21.4	0.0	0.0	-	11.1	-	0.0	0.0	0.0	-	0.0	4.0
Single-Unit Trucks	0	0	0	0	-	0	0	0	6	0	-	6	0	1	0	0	-	1	0	0	0	0	-	0	7
% Single-Unit Trucks	-	0.0	0.0	0.0	-	0.0	-	0.0	3.5	0.0	-	3.0	-	7.1	0.0	0.0	-	3.7	-	0.0	0.0	0.0	-	0.0	1.9
Articulated Trucks	0	1	0	0	-	1	0	0	8	0	-	8	0	0	0	0	-	0	0	1	0	0	-	1	10
% Articulated Trucks	-	25.0	0.0	0.0	-	0.7	-	0.0	4.7	0.0	-	4.0	-	0.0	0.0	0.0	-	0.0	-	20.0	0.0	0.0	-	9.1	2.6
Bicycles on Road	0	0	0	0	-	0	0	0	1	0	-	1	0	0	0	0	-	0	0	0	0	0	-	0	1
% Bicycles on Road	-	0.0	0.0	0.0	-	0.0		0.0	0.6	0.0	-	0.5	-	0.0	0.0	0.0	-	0.0		0.0	0.0	0.0	-	0.0	0.3
Pedestrians	-	-	-	-	0	-	-	-	-	-	13	-	-	-	-	-	2	-	-	-	-	-	2	-	-
% Pedestrians	-	_	-	-	-	-	-	-	-	-	100.0	-	-	-	-	_	100.0	-	-	-	-	-	100.0	-	-
% Articulated Trucks  Bicycles on Road  % Bicycles on Road  Pedestrians	- 0	0.0	0.0	0.0	0	0.0	-	0.0	4.7 1 0.6	0.0		4.0 1 0.5	0 -	0.0	0.0	0.0		0.0	-	0.0	0.0	0.0	- 2	0 0.0	2.6



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Count Name: Root Street with Well Street Site Code: Start Date: 06/21/2022 Page No: 1

			Root	Street					Root	Street	_				Wells	Street					Welli	Street			
			Easth	oound					West	tbound					North	bound					South	bound			
Start Time	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	Int. Total
6:00 AM	0	0	34	0	0	34	1	3	35	0	0	39	0	1	0	1	0	2	0	1	0	1	0	2	77
6:15 AM	0	0	22	0	0	22	0	0	36	0	0	36	0	1	0	1	0	2	0	0	0	0	1	0	60
6:30 AM	0	0	23	0	1	23	0	1	28	0	1	29	0	0	2	1	1	3	0	2	0	2	1	4	59
6:45 AM	0	0	35	0	0	35	0	0	29	0	0	29	0	0	0	1	0	1	0	0	0	0	0	0	65
Hourly Total	0	0	114	0	1	114	1	4	128	0	1	133	0	2	2	4	1	8	0	3	0	3	2	6	261
7:00 AM	0	0	19	0	1	19	0	0	24	1	1	25	0	3	1	1	1	5	0	1	0	1	1	2	51
7:15 AM	0	1	26	1	0	28	0	0	17	2	0	19	0	0	0	3	0	3	0	2	0	0	0	2	52
7:30 AM	0	1	22	0	0	23	0	0	25	1	0	26	0	0	0	0	0	0	0	1	0	0	0	1	50
7:45 AM	0	0	31	0	0	31	1	0	32	0	0	33	0	0	1	0	0	1	0	0	0	0	0	0	65
Hourly Total	0	2	98	1	1	101	1	0	98	4	1	103	0	3	2	4	1	9	0	4	0	1	1	5	218
8:00 AM	0	2	19	0	0	21	0	1	25	. 1	0	27	0	2	0	0	0	2	0	2	0	0	0	2	52
8:15 AM	0	3	26	1	0	30	0	0	33	1	0	34	0	0	0	2	0	2	0	3	0	1	1	4	70
8:30 AM	0	0	22	0	0	22	0	0	24	0	0	24	0	1	0	0	0	1	0	4	0	1	0	5	52
8:45 AM	0	0	21	0	2	21	0	0	28	2	0	30	0	3	0	1	0	4	0	3	0	0	0	3	58
Hourly Total	0	5	88	1	2	94	0	1	110	4	0	115	0	6	0	3	0	9	0	12	0	2	1	14	232
*** BREAK ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3:00 PM	1	2	46	0	4	49	0	0	42	3	0	45	0	1	0	0	0	1	0	4	1	2	0	7	102
3:15 PM	0	0	30	1	1	31	0	2	44	2	3	48	0	5	1	3	0	9	0	1	0	3	6	4	92
3:30 PM	0	1	36	2	3	39	1	0	36	. 1	. 0	38	0	1	0	5	0	6	0	1	0	3	1	4	87
3:45 PM	1	1	35	2	6	39	0	1	36	1	0	38	0	2	1	1	0	4	0	0	0	1	1	1	82
Hourly Total	2	4	147	5	14	158	1	3	158	7	3	169	0	9	2	9	0	20	0	6	1	9	8	16	363
4:00 PM	1	1	36	2	0	40	0	1	57	. 1	. 0	59	0	2	0	2	0	4	0	1	1	1	4	3	106
4:15 PM	1	1	42	0	1	44	0	2	47	. 1	0	50	0	3	0	5	0	8	0	3	1	3	0	7	109
4:30 PM	0	0	36	1	1	37	0	1	43	1	0	45	0	2	0	2	0	4	0	1	0	2	5	3	89
4:45 PM	0	0	30	0	1	30	0	1	44	3	0	48	1	2	. 1	0	0	4	0	2	0	3	1	5	87
Hourly Total	2	2	144	3	3	151	0	5	191	6	0	202	1	9	. 1	9	0	20	0	7	2	9	10	18	391
5:00 PM	2	1	46	1	0	50	0	0	42	1	0	43	0	2	2	0	0	4	1	4	2	2	1	9	106
5:15 PM	0	1	28	1	1	30	0	2	38	0	0	40	0	1	0	0	0	1	0	2	0	1	1	3	74
5:30 PM	2	0	24	1	0	27	0	2	35	2	0	39	0	1	1	1	0	3	0	1	0	0	0	1	70
5:45 PM	1	0	21	1	0	23	1	0	31	3	0	35	0	0	0	1	1	1	0	0	0	0	4	0	59
Hourly Total	5	2	119	4	1	130	1	4	146	6	0	157	0	4	3	2	1	9	1	7	2	3	6	13	309
Grand Total	9	15	710	14	22	748	4	17	831	27	5	879	1	33	10	31	3	75	1	39	5	27	28	72	1774
Approach %	1.2	2.0	94.9	1.9	-	-	0.5	1.9	94.5	3.1	-	-	1.3	44.0	13.3	41.3	-	-	1.4	54.2	6.9	37.5	-	-	-
Total %	0.5	8.0	40.0	0.8	-	42.2	0.2	1.0	46.8	1.5	-	49.5	0.1	1.9	0.6	1.7	-	4.2	0.1	2.2	0.3	1.5	-	4.1	-
Lights	9	14	609	12	-	644	4	16	735	20	-	775	1	28	10	30	-	69	1	29	5	21	-	56	1544

% Lights	100.0	93.3	85.8	85.7	-	86.1	100.0	94.1	88.4	74.1	-	88.2	100.0	84.8	100.0	96.8	-	92.0	100.0	74.4	100.0	77.8	-	77.8	87.0
Buses	0	0	36	0	-	36	0	0	24	0	-	24	0	3	0	0	-	3	0	0	0	0	-	0	63
% Buses	0.0	0.0	5.1	0.0	-	4.8	0.0	0.0	2.9	0.0	-	2.7	0.0	9.1	0.0	0.0	-	4.0	0.0	0.0	0.0	0.0	-	0.0	3.6
Single-Unit Trucks	0	0	37	2	-	39	0	1	38	3	-	42	0	1	0	1	-	2	0	6	0	4	-	10	93
% Single-Unit Trucks	0.0	0.0	5.2	14.3	-	5.2	0.0	5.9	4.6	11.1	-	4.8	0.0	3.0	0.0	3.2	-	2.7	0.0	15.4	0.0	14.8	-	13.9	5.2
Articulated Trucks	0	0	22	0	-	22	0	0	29	2	-	31	0	0	0	0	-	0	0	4	0	0	-	4	57
% Articulated Trucks	0.0	0.0	3.1	0.0	-	2.9	0.0	0.0	3.5	7.4	-	3.5	0.0	0.0	0.0	0.0	-	0.0	0.0	10.3	0.0	0.0	-	5.6	3.2
Bicycles on Road	0	1	6	0	-	7	0	0	5	2	-	7	0	1	0	0	-	1	0	0	0	2	-	2	17
% Bicycles on Road	0.0	6.7	0.8	0.0	-	0.9	0.0	0.0	0.6	7.4	-	0.8	0.0	3.0	0.0	0.0	-	1.3	0.0	0.0	0.0	7.4	-	2.8	1.0
Pedestrians	-	-	-	-	22	-	-	-	-	-	5	-	-	-	-	-	3	-	-	-	-	-	28	-	-
% Pedestrians	_	-	-	-	100.0	-	-	_	-	-	100.0		-	-	-	-	100.0		_	-	-		100.0	-	-



Rosemont, Illinois, United States 60018 (847)518-9990

Count Name: Root Street with Well Street Site Code: Start Date: 06/21/2022 Page No: 3

	1							ian	19 11	10 0 011	icit i	can	loai	Data	(7.00	, (ivi)			1						1
			Root	Street					Root	Street					Wells	Street					Well	Street			
			Easth	oound					West	bound					North	bound					South	bound			
Start Time	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	Int. Total
7:30 AM	0	1	22	0	0	23	0	0	25	1	0	26	0	0	0	0	0	0	0	1	0	0	0	1	50
7:45 AM	0	0	31	0	0	31	1	0	32	0	0	33	0	0	1	0	0	1	0	0	0	0	0	0	65
8:00 AM	0	2	19	0	0	21	0	1	25	1	0	27	0	2	0	0	0	2	0	2	0	0	0	2	52
8:15 AM	0	3	26	1	0	30	0	0	33	1	0	34	0	0	0	2	0	2	0	3	0	1	1	4	70
Total	0	6	98	1	0	105	1	1	115	3	0	120	0	2	1	2	0	5	0	6	0	1	1	7	237
Approach %	0.0	5.7	93.3	1.0	-	-	0.8	0.8	95.8	2.5	-	-	0.0	40.0	20.0	40.0	-	-	0.0	85.7	0.0	14.3	-	-	-
Total %	0.0	2.5	41.4	0.4	-	44.3	0.4	0.4	48.5	1.3	-	50.6	0.0	0.8	0.4	0.8	-	2.1	0.0	2.5	0.0	0.4	-	3.0	-
PHF	0.000	0.500	0.790	0.250	-	0.847	0.250	0.250	0.871	0.750		0.882	0.000	0.250	0.250	0.250		0.625	0.000	0.500	0.000	0.250	-	0.438	0.846
Lights	0	6	63	1	-	70	1	1	105	2	-	109	0	1	1	2	-	4	0	4	0	1	-	5	188
% Lights	-	100.0	64.3	100.0	-	66.7	100.0	100.0	91.3	66.7	-	90.8	-	50.0	100.0	100.0	-	80.0	-	66.7		100.0	-	71.4	79.3
Buses	0	0	12	0		12	0	0	1	0		1	0	1	0	0		1	0	0	0	0	_	0	14
% Buses		0.0	12.2	0.0		11.4	0.0	0.0	0.9	0.0		0.8	_	50.0	0.0	0.0		20.0		0.0		0.0	_	0.0	5.9
Single-Unit Trucks	0	0	15	0.0	_	15	0	0	2	0		2	0	0	0.0	0	_	0	0	2	0	0	-	2	19
% Single-Unit Trucks	-	0.0	15.3	0.0	-	14.3	0.0	0.0	1.7	0.0	-	1.7	-	0.0	0.0	0.0	-	0.0	-	33.3	-	0.0	-	28.6	8.0
Articulated Trucks	0	0	8	0	_	8	0	0	7	1	_	8	0	0	0	0	_	0	0	0	0	0	-	0	16
% Articulated Trucks	-	0.0	8.2	0.0	-	7.6	0.0	0.0	6.1	33.3	-	6.7	-	0.0	0.0	0.0	-	0.0	-	0.0	-	0.0	-	0.0	6.8
Bicycles on Road	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0
% Bicycles on Road	-	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	-	0.0	-	0.0	0.0
Pedestrians	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	1	-	-
% Pedestrians	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100.0	-	-



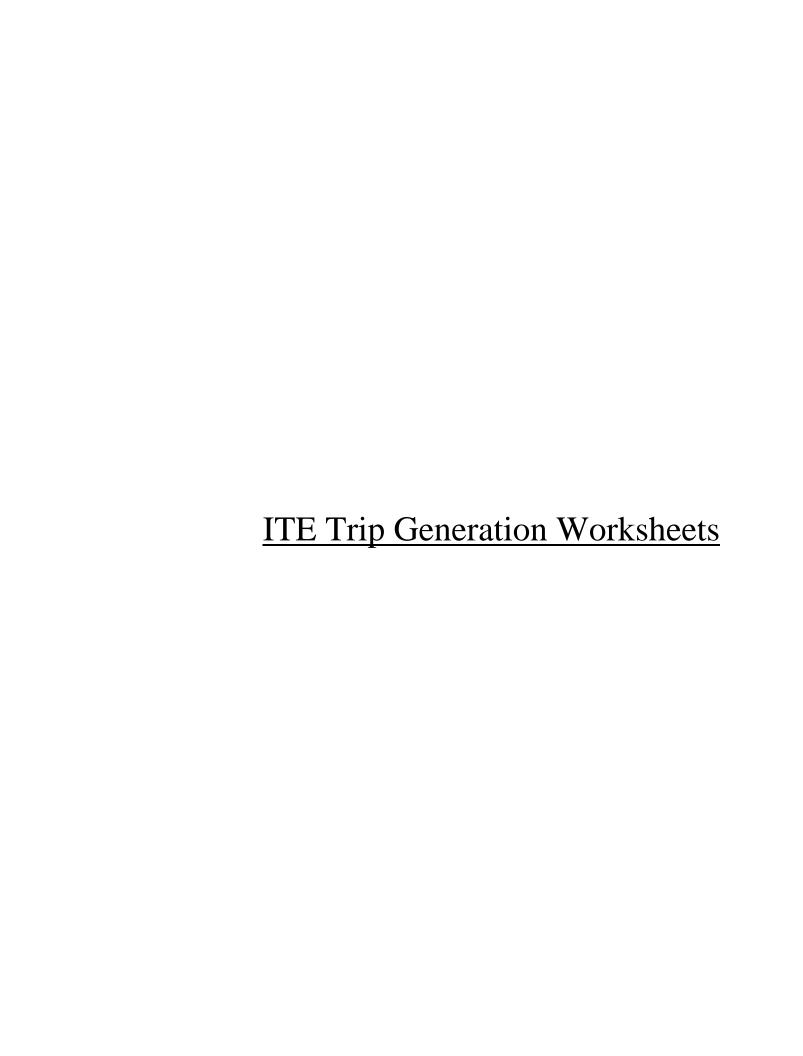
Rosemont, Illinois, United States 60018 (847)518-9990

Count Name: Root Street with Well Street Site Code: Start Date: 06/21/2022 Page No: 4

	1						ı		_			Jan			(	,			1						I .
			Root	Street					Root	Street					Wells	Street			1		Welli	Street			
			Easth	oound					West	bound					North	bound					South	bound			
Start Time	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	Int. Total
4:00 PM	1	1	36	2	0	40	0	1	57	1	0	59	0	2	0	2	0	4	0	1	1	1	4	3	106
4:15 PM	1	1	42	0	1	44	0	2	47	1	0	50	0	3	0	5	0	8	0	3	1	3	0	7	109
4:30 PM	0	0	36	1	1	37	0	1	43	1	0	45	0	2	0	2	0	4	0	1	0	2	5	3	89
4:45 PM	0	0	30	0	1	30	0	1	44	3	0	48	1	2	1	0	0	4	0	2	0	3	1	5	87
Total	2	2	144	3	3	151	0	5	191	6	0	202	1	9	1	9	0	20	0	7	2	9	10	18	391
Approach %	1.3	1.3	95.4	2.0	-	-	0.0	2.5	94.6	3.0	-	-	5.0	45.0	5.0	45.0	-	-	0.0	38.9	11.1	50.0	-	-	-
Total %	0.5	0.5	36.8	0.8	-	38.6	0.0	1.3	48.8	1.5	-	51.7	0.3	2.3	0.3	2.3	-	5.1	0.0	1.8	0.5	2.3	-	4.6	-
PHF	0.500	0.500	0.857	0.375	-	0.858	0.000	0.625	0.838	0.500	-	0.856	0.250	0.750	0.250	0.450	-	0.625	0.000	0.583	0.500	0.750	-	0.643	0.897
Lights	2	2	142	3	-	149	0	5	170	6	-	181	1	8	1	9	-	19	0	6	2	9	-	17	366
% Lights	100.0	100.0	98.6	100.0	-	98.7	-	100.0	89.0	100.0	-	89.6	100.0	88.9	100.0	100.0	-	95.0	-	85.7	100.0	100.0	-	94.4	93.6
Buses	0	0	1	0	-	1	0	0	7	0	-	7	0	0	0	0	-	0	0	0	0	0	-	0	8
% Buses	0.0	0.0	0.7	0.0	-	0.7	-	0.0	3.7	0.0	-	3.5	0.0	0.0	0.0	0.0	-	0.0	-	0.0	0.0	0.0	-	0.0	2.0
Single-Unit Trucks	0	0	0	0	-	0	0	0	8	0	-	8	0	0	0	0	-	0	0	1	0	0	-	1	9
% Single-Unit Trucks	0.0	0.0	0.0	0.0	-	0.0	-	0.0	4.2	0.0	-	4.0	0.0	0.0	0.0	0.0	-	0.0	-	14.3	0.0	0.0	-	5.6	2.3
Articulated Trucks	0	0	1	0	-	1	0	0	6	0	-	6	0	0	0	0	-	0	0	0	0	0	-	0	7
% Articulated Trucks	0.0	0.0	0.7	0.0	-	0.7	-	0.0	3.1	0.0	-	3.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	0.0	0.0	-	0.0	1.8
Bicycles on Road	0	0	0	0	-	0	0	0	0	0	-	0	0	1	0	0	-	1	0	0	0	0	-	0	1
% Bicycles on Road	0.0	0.0	0.0	0.0	-	0.0	-	0.0	0.0	0.0	-	0.0	0.0	11.1	0.0	0.0	-	5.0	-	0.0	0.0	0.0	-	0.0	0.3
Pedestrians	-	_	_	-	3	-	-	-	-	_	0	_	-	-	_	_	0	-	-	-	_	-	10	_	-
% Pedestrians	-	_	_	-	100.0	-	-	-	-	-	_	-	-	-	_	-	-	_	-	-	_	-	100.0	_	-

Preliminary Site Plan





## General Light Industrial (110)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA
On a: Weekday

Setting/Location: General Urban/Suburban

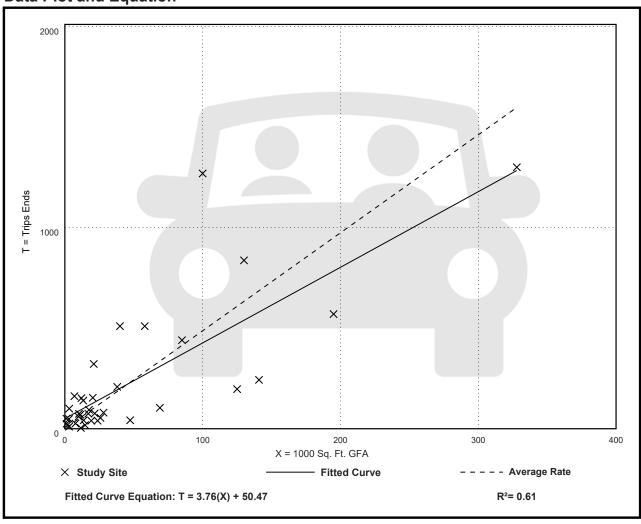
Number of Studies: 37 Avg. 1000 Sq. Ft. GFA: 45

Directional Distribution: 50% entering, 50% exiting

#### Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
4.87	0.34 - 43.86	4.08

#### **Data Plot and Equation**





## General Light Industrial (110)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday,

Peak Hour of Adjacent Street Traffic,

One Hour Between 7 and 9 a.m.

Setting/Location: General Urban/Suburban

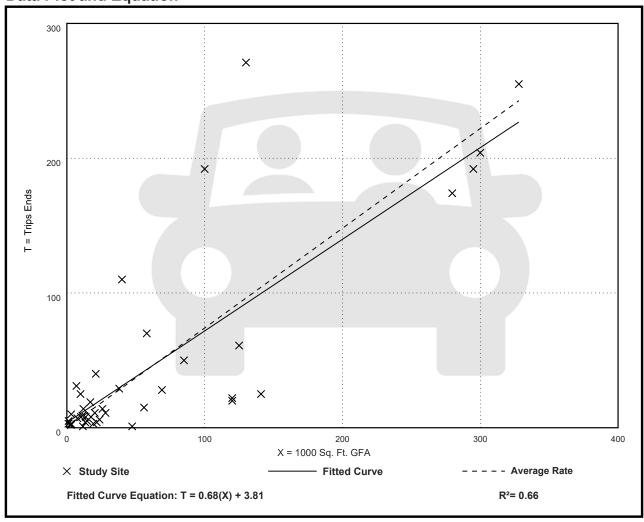
Number of Studies: 41 Avg. 1000 Sq. Ft. GFA: 65

Directional Distribution: 88% entering, 12% exiting

#### Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
0.74	0.02 - 4.46	0.61

#### **Data Plot and Equation**





## General Light Industrial (110)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday,

Peak Hour of Adjacent Street Traffic,

One Hour Between 4 and 6 p.m.

Setting/Location: General Urban/Suburban

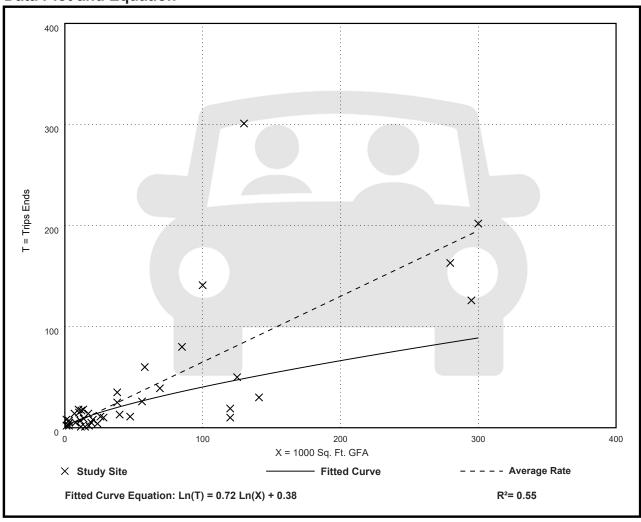
Number of Studies: 40 Avg. 1000 Sq. Ft. GFA: 58

Directional Distribution: 14% entering, 86% exiting

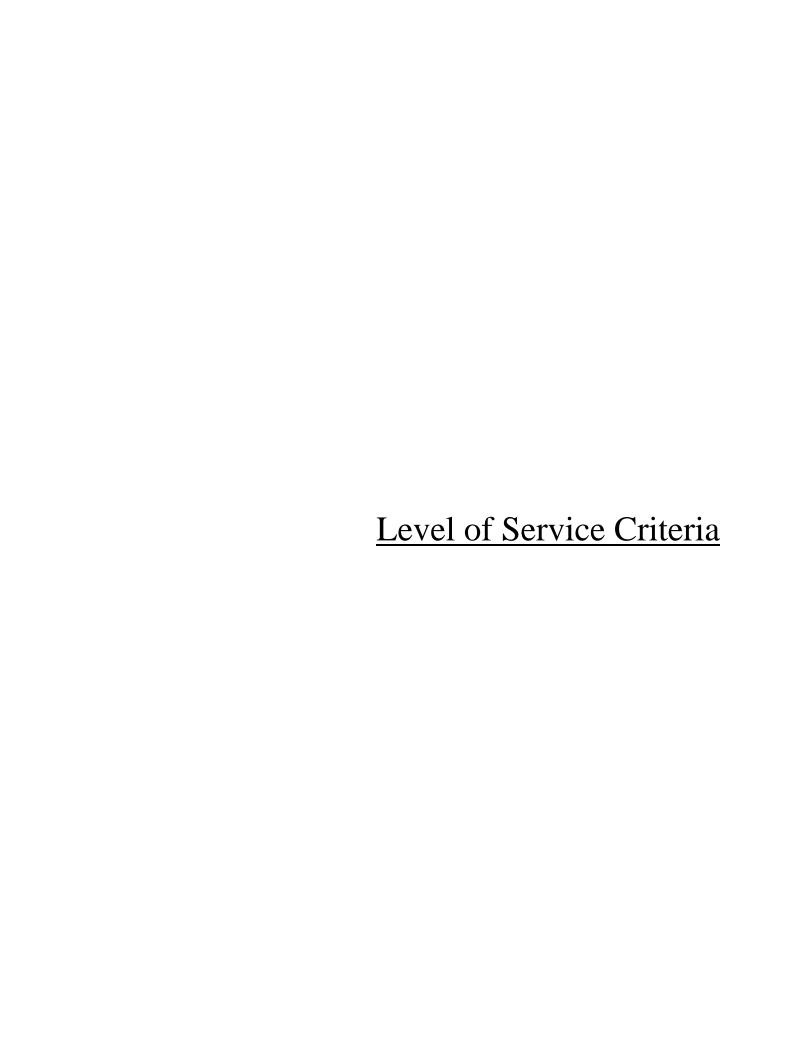
#### Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
0.65	0.07 - 7.02	0.56

#### **Data Plot and Equation**







#### LEVEL OF SERVICE CRITERIA

	EE VEE C	Signalized Intersections
		Average Control
Level of		Delay
Service	Interpretati	`
A	Favorable progression. Most vehicles arrive during a green indication and travel through the intersection without stopping and the intersection without stopping and the intersection without stopping and the intersection with the inter	on
В	Good progression, with more vehicles stopping than Level of Service	
C	Individual cycle failures (i.e., one or more quere vehicles are not able to depart as a result of insufficion capacity during the cycle) may begin to apper Number of vehicles stopping is significant, although may vehicles still pass through the intersection with the stopping is stopping.	ent ar. any out
D	The volume-to-capacity ratio is high and eith progression is ineffective or the cycle length is too low Many vehicles stop and individual cycle failures a noticeable.	ng. are
Е	Progression is unfavorable. The volume-to-capacity ratio is high and the cycle length is long. Individual cycle failures are frequent	cle
F	The volume-to-capacity ratio is very high, progression very poor, and the cycle length is long. Most cycles for to clear the que	ail
		nsignalized Intersections
	Level of Service Averag	e Total Delay (SEC/VEH)
	A	0 - 10
	В	> 10 - 15
	С	> 15 - 25
	D	> 25 - 35
	Е	> 35 - 50
	F Source: Hi	> 50 sghway Capacity Manual, 2010.

# <u>Capacity Analysis Summary Sheets</u> Year 2022 Base Weekday Morning Peak Hour Conditions

	-	•	•	←	1	~
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<b>†</b>	LDIN	VVDL	<u></u> ↑↑	₩.	NUN
Traffic Volume (vph)	<b>T №</b> 627	12	21	628	20	31
Future Volume (vph)	627	12	21	628	20	31
Ideal Flow (vphpl)	1900	1900	1900	2000	1900	1900
Lane Width (ft)	1900	1900	1900	10	1900	1900
Grade (%)	0%	10	10	0%	0%	10
Storage Length (ft)	070	0	115	070	0%	0
			115		1	0
Storage Lanes		0	80		25	U
Taper Length (ft)	0.05	0.05		0.05		1.00
Lane Util. Factor	0.95	0.95	1.00	0.95	1.00	1.00
Ped Bike Factor	0.007				0.010	
Frt	0.997		0.050		0.918	
Flt Protected			0.950		0.981	
Satd. Flow (prot)	2705	0	1246	3007	1461	0
Flt Permitted			0.331		0.981	
Satd. Flow (perm)	2705	0	434	3007	1461	0
Right Turn on Red		Yes				Yes
Satd. Flow (RTOR)	4				34	
Link Speed (mph)	30			30	30	
Link Distance (ft)	679			1450	1670	
Travel Time (s)	15.4			33.0	38.0	
Confl. Peds. (#/hr)						
Confl. Bikes (#/hr)						
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	23%	33%	33%	17%	0%	32%
Bus Blockages (#/hr)	4	4	4	4	0.0	0
Parking (#/hr)	7	7	7	4	0	0
Mid-Block Traffic (%)	0%			0%	0%	U
. ,	U 70			U 70	U 70	
Shared Lane Traffic (%)	710	0	22	/00	Г/	0
Lane Group Flow (vph)	710	0	23	698	56	0
Turn Type	NA		Perm	NA	Prot	
Protected Phases	2			6	8	
Permitted Phases			6			
Detector Phase	2		6	6	8	
Switch Phase						
Minimum Initial (s)	5.0		5.0	5.0	5.0	
Minimum Split (s)	37.0		37.0	37.0	28.0	
Total Split (s)	37.0		37.0	37.0	28.0	
Total Split (%)	56.9%		56.9%	56.9%	43.1%	
Yellow Time (s)	3.0		3.0	3.0	3.0	
All-Red Time (s)	1.0		1.0	1.0	1.0	
Lost Time Adjust (s)	0.0		0.0	0.0	0.0	
Total Lost Time (s)	4.0		4.0	4.0	4.0	
Lead/Lag					-110	
Lead-Lag Optimize?						
Recall Mode	Max		Max	Max	Max	
Act Effct Green (s)	33.0		33.0	33.0	24.0	
` ,						
Actuated g/C Ratio	0.51		0.51	0.51	0.37	

## Lanes, Volumes, Timings 1: Normal Avenue & Pershing Road

	<b>→</b>	$\rightarrow$	•	<b>←</b>	4	<i>&gt;</i>
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
v/c Ratio	0.52		0.10	0.46	0.10	
Control Delay	8.5		9.9	11.5	8.0	
Queue Delay	0.0		0.0	0.0	0.0	
Total Delay	8.5		9.9	11.5	8.0	
LOS	А		Α	В	Α	
Approach Delay	8.5			11.4	8.0	
Approach LOS	Α			В	Α	
Queue Length 50th (ft)	106		4	86	5	
Queue Length 95th (ft)	156		16	125	26	
Internal Link Dist (ft)	599			1370	1590	
Turn Bay Length (ft)			115			
Base Capacity (vph)	1375		220	1526	560	
Starvation Cap Reductn	0		0	0	0	
Spillback Cap Reductn	0		0	0	0	
Storage Cap Reductn	0		0	0	0	
Reduced v/c Ratio	0.52		0.10	0.46	0.10	
Intersection Summary						
Area Type:	Other					
Cycle Length: 65						
Actuated Cycle Length: 65						
Offset: 60 (92%), Reference	ed to phase	2:EBT ar	nd 6:WBT	L, Start o	f Green	
Natural Cycle: 65						
Control Type: Pretimed						
Maximum v/c Ratio: 0.52						
Intersection Signal Delay: 9					tersection	
Intersection Capacity Utilization	ation 28.5%			IC	U Level o	f Service A
Analysis Period (min) 15						
C.III. I.DI		0 D I				
Splits and Phases: 1: No	ormal Avenue	e & Persr	ing Road			
→ø2 (R)						
37 s						
₹ as (n)						<b></b>

Intersection						
Int Delay, s/veh	0.4					
		EDD	WDI	WDT	NDI	NDD
	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<b>†</b>	10	<u>ነ</u>	<b>^</b>	¥	01
Traffic Vol, veh/h	645	13	12	640	9	21
Future Vol, veh/h	645	13	12	640	9	21
Conflicting Peds, #/hr	0	_ 0	0	0	0	0
_ 3	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	60	-	0	-
Veh in Median Storage,		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	93	93	93	93	93	93
Heavy Vehicles, %	24	23	42	18	0	24
Mvmt Flow	694	14	13	688	10	23
Major/Minor M	olor1		//oicr2	N.	liner1	
	ajor1		Major2		Minor1	05.4
Conflicting Flow All	0	0	708	0	1071	354
Stage 1	-	-	-	-	701	-
Stage 2	-	-	-	-	370	-
Critical Hdwy	-	-	4.94	-	6.8	7.38
Critical Hdwy Stg 1	-	-	-	-	5.8	-
Critical Hdwy Stg 2	-	-	-	-	5.8	-
Follow-up Hdwy	-	-	2.62	-	3.5	3.54
Pot Cap-1 Maneuver	-	-	666	-	219	583
Stage 1	-	-	-	-	459	-
Stage 2	-	-	-	-	675	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-		666	-	215	583
Mov Cap-2 Maneuver	_		-	_	215	-
Stage 1	_	_	_	_	459	-
Stage 2	_	_		_	662	_
Jiago Z		_		-	002	_
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.2		15.2	
HCM LOS					С	
					MDI	WBT
Minar Lana/Major Minar		IDI n1	EDT			WHI
Minor Lane/Major Mvmt		VBLn1	EBT	EBR	WBL	VVDI
Capacity (veh/h)	N	385	-	-	666	-
Capacity (veh/h) HCM Lane V/C Ratio	ľ	385 0.084		-	666 0.019	-
Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)	ľ	385 0.084 15.2	-	-	666 0.019 10.5	-
Capacity (veh/h) HCM Lane V/C Ratio	ľ	385 0.084	-	-	666 0.019	-

Intersection							
Intersection Delay, s/veh	18.8						
Intersection LOS	С						
Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	<b>↑</b> ↑		*	<b>^</b>	¥		
Traffic Vol, veh/h	645	21	47	642	10	46	
Future Vol, veh/h	645	21	47	642	10	46	
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	
Heavy Vehicles, %	24	19	11	18	10	11	
Mvmt Flow	686	22	50	683	11	49	
Number of Lanes	2	0	1	2	1	0	
Approach	EB		WB		NB		
Opposing Approach	WB		EB				
Opposing Lanes	3		2		0		
Conflicting Approach Left			NB		EB		
Conflicting Lanes Left	0		1		2		
Conflicting Approach Right	NB				WB		
Conflicting Lanes Right	1		0		3		
HCM Control Delay	26		12.4		10.9		
HCM LOS	D		В		В		
Lane		NBLn1	EBLn1	EBLn2	WBLn1	WBLn2	WBLn3
Lane Vol Left, %		NBLn1 18%	EBLn1	EBLn2	WBLn1 100%	WBLn2	WBLn3
Vol Left, %							
		18%	0%	0%	100%	0%	0%
Vol Left, % Vol Thru, %		18% 0%	0% 100%	0% 91%	100% 0%	0% 100%	0% 100%
Vol Left, % Vol Thru, % Vol Right, %		18% 0% 82%	0% 100% 0%	0% 91% 9%	100% 0% 0%	0% 100% 0%	0% 100% 0%
Vol Left, % Vol Thru, % Vol Right, % Sign Control		18% 0% 82% Stop	0% 100% 0% Stop	0% 91% 9% Stop	100% 0% 0% Stop	0% 100% 0% Stop	0% 100% 0% Stop
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol		18% 0% 82% Stop 56	0% 100% 0% Stop 430	0% 91% 9% Stop 236	100% 0% 0% Stop 47	0% 100% 0% Stop 321	0% 100% 0% Stop 321
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol		18% 0% 82% Stop 56 10	0% 100% 0% Stop 430	0% 91% 9% Stop 236 0 215	100% 0% 0% Stop 47 47	0% 100% 0% Stop 321	0% 100% 0% Stop 321 0 321
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol		18% 0% 82% Stop 56 10	0% 100% 0% Stop 430 0	0% 91% 9% Stop 236 0 215	100% 0% 0% Stop 47 47	0% 100% 0% Stop 321 0	0% 100% 0% Stop 321 0
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp		18% 0% 82% Stop 56 10 0 46 60	0% 100% 0% Stop 430 0 430 0 457	0% 91% 9% Stop 236 0 215 21 251	100% 0% 0% Stop 47 47 0 0	0% 100% 0% Stop 321 0 321 0 341 7	0% 100% 0% Stop 321 0 321 0 341 7
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X)		18% 0% 82% Stop 56 10 0 46 60 7 0.118	0% 100% 0% Stop 430 0 430 0 457 8 0.823	0% 91% 9% Stop 236 0 215 21 251 8 0.442	100% 0% 0% Stop 47 47 0 0 50 7	0% 100% 0% Stop 321 0 321 7 0.565	0% 100% 0% Stop 321 0 321 7 0.373
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd)		18% 0% 82% Stop 56 10 0 46 60 7 0.118 7.157	0% 100% 0% Stop 430 0 430 0 457 8 0.823 6.48	0% 91% 9% Stop 236 0 215 21 251 8 0.442 6.332	100% 0% 0% Stop 47 47 0 0 50 7 0.088 6.342	0% 100% 0% Stop 321 0 321 7 0.565 5.958	0% 100% 0% Stop 321 0 321 7 0.373 3.934
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X)		18% 0% 82% Stop 56 10 0 46 60 7 0.118 7.157 Yes	0% 100% 0% Stop 430 0 430 0 457 8 0.823 6.48 Yes	0% 91% 9% Stop 236 0 215 21 251 8 0.442 6.332 Yes	100% 0% 0% Stop 47 47 0 0 50 7 0.088 6.342 Yes	0% 100% 0% Stop 321 0 321 0 341 7 0.565 5.958 Yes	0% 100% 0% Stop 321 0 321 7 0.373 3.934 Yes
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap		18% 0% 82% Stop 56 10 0 46 60 7 0.118 7.157 Yes 500	0% 100% 0% Stop 430 0 430 0 457 8 0.823 6.48 Yes 558	0% 91% 9% Stop 236 0 215 21 251 8 0.442 6.332 Yes 570	100% 0% 0% Stop 47 47 0 0 50 7 0.088 6.342 Yes 566	0% 100% 0% Stop 321 0 321 7 0.565 5.958 Yes 608	0% 100% 0% Stop 321 0 321 7 0.373 3.934 Yes 912
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time		18% 0% 82% Stop 56 10 0 46 60 7 0.118 7.157 Yes 500 4.903	0% 100% 0% Stop 430 0 430 0 457 8 0.823 6.48 Yes 558 4.208	0% 91% 9% Stop 236 0 215 21 251 8 0.442 6.332 Yes 570 4.06	100% 0% 0% Stop 47 47 0 0 50 7 0.088 6.342 Yes 566 4.073	0% 100% 0% Stop 321 0 321 7 0.565 5.958 Yes 608 3.689	0% 100% 0% Stop 321 0 321 7 0.373 3.934 Yes 912 1.665
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HCM Lane V/C Ratio		18% 0% 82% Stop 56 10 0 46 60 7 0.118 7.157 Yes 500 4.903 0.12	0% 100% 0% Stop 430 0 430 457 8 0.823 6.48 Yes 558 4.208 0.819	0% 91% 9% Stop 236 0 215 21 251 8 0.442 6.332 Yes 570 4.06 0.44	100% 0% 0% Stop 47 47 0 0 50 7 0.088 6.342 Yes 566 4.073 0.088	0% 100% 0% Stop 321 0 321 7 0.565 5.958 Yes 608 3.689 0.561	0% 100% 0% Stop 321 0 321 7 0.373 3.934 Yes 912 1.665 0.374
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HCM Lane V/C Ratio HCM Control Delay		18% 0% 82% Stop 56 10 0 46 60 7 0.118 7.157 Yes 500 4.903 0.12 10.9	0% 100% 0% Stop 430 0 430 0 457 8 0.823 6.48 Yes 558 4.208 0.819 32.6	0% 91% 9% Stop 236 0 215 21 251 8 0.442 6.332 Yes 570 4.06 0.44 14	100% 0% 0% Stop 47 47 0 0 50 7 0.088 6.342 Yes 566 4.073 0.088 9.7	0% 100% 0% Stop 321 0 321 7 0.565 5.958 Yes 608 3.689 0.561 16.2	0% 100% 0% Stop 321 0 321 7 0.373 3.934 Yes 912 1.665 0.374
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HCM Lane V/C Ratio		18% 0% 82% Stop 56 10 0 46 60 7 0.118 7.157 Yes 500 4.903 0.12	0% 100% 0% Stop 430 0 430 457 8 0.823 6.48 Yes 558 4.208 0.819	0% 91% 9% Stop 236 0 215 21 251 8 0.442 6.332 Yes 570 4.06 0.44	100% 0% 0% Stop 47 47 0 0 50 7 0.088 6.342 Yes 566 4.073 0.088	0% 100% 0% Stop 321 0 321 7 0.565 5.958 Yes 608 3.689 0.561	0% 100% 0% Stop 321 0 321 7 0.373 3.934 Yes 912 1.665 0.374

Conflicting Approach Right
Conflicting Lanes Right

HCM Control Delay

**HCM LOS** 

NB

8.9

1

Α

Intersection												
Intersection Delay, s/veh	8.6											
Intersection LOS	А											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	12	117	4	7	166	10	17	18	13	7	8	1
Future Vol, veh/h	12	117	4	7	166	10	17	18	13	7	8	1
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Heavy Vehicles, %	25	33	0	0	10	0	0	6	8	14	13	100
Mvmt Flow	13	131	4	8	187	11	19	20	15	8	9	1
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	1			1			1			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	1			1			1			1		

SB

8.6

Α

1

WB

8

Α

EΒ

8.2

Α

Lane	NBLn1	EBLn1	WBLn1	SBLn1	
Vol Left, %	35%	9%	4%	44%	
Vol Thru, %	38%	88%	91%	50%	
Vol Right, %	27%	3%	5%	6%	
Sign Control	Stop	Stop	Stop	Stop	
Traffic Vol by Lane	48	133	183	16	
LT Vol	17	12	7	7	
Through Vol	18	117	166	8	
RT Vol	13	4	10	1	
Lane Flow Rate	54	149	206	18	
Geometry Grp	1	1	1	1	
Degree of Util (X)	0.069	0.196	0.241	0.025	
Departure Headway (Hd)	4.637	4.721	4.217	5.064	
Convergence, Y/N	Yes	Yes	Yes	Yes	
Cap	774	765	855	708	
Service Time	2.658	2.721	2.229	3.088	
HCM Lane V/C Ratio	0.07	0.195	0.241	0.025	
HCM Control Delay	8	8.9	8.6	8.2	
HCM Lane LOS	А	Α	Α	Α	
HCM 95th-tile Q	0.2	0.7	0.9	0.1	

ntersection	
ntersection Delay, s/veh	8.6
ntersection LOS	Α

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
	LDL		LDK	WDL		WDK	NDL		NDK	SDL		SDK
Lane Configurations		- ↔			€			↔			4	
Traffic Vol, veh/h	7	123	7	8	156	8	20	5	8	5	1	7
Future Vol, veh/h	7	123	7	8	156	8	20	5	8	5	1	7
Peak Hour Factor	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Heavy Vehicles, %	14	33	0	0	8	88	15	0	0	100	0	14
Mvmt Flow	8	146	8	10	186	10	24	6	10	6	1	8
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	1			1			1			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	1			1			1			1		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	1			1			1			1		
HCM Control Delay	8.6			8.5			8.3			9.4		
HCM LOS	А			А			Α			Α		

Lane	NBLn1	EBLn1	WBLn1	SBLn1	
Vol Left, %	61%	5%	5%	38%	
Vol Thru, %	15%	90%	91%	8%	
Vol Right, %	24%	5%	5%	54%	
Sign Control	Stop	Stop	Stop	Stop	
Traffic Vol by Lane	33	137	172	13	
LT Vol	20	7	8	5	
Through Vol	5	123	156	1	
RT Vol	8	7	8	7	
Lane Flow Rate	39	163	205	15	
Geometry Grp	1	1	1	1	
Degree of Util (X)	0.054	0.203	0.239	0.027	
Departure Headway (Hd)	4.973	4.472	4.205	6.234	
Convergence, Y/N	Yes	Yes	Yes	Yes	
Cap	721	806	858	576	
Service Time	2.994	2.484	2.216	4.256	
HCM Lane V/C Ratio	0.054	0.202	0.239	0.026	
HCM Control Delay	8.3	8.6	8.5	9.4	
HCM Lane LOS	А	Α	Α	Α	
HCM 95th-tile Q	0.2	0.8	0.9	0.1	

Intersection												
Int Delay, s/veh	0.8											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	8	127	1	3	168	4	3	1	3	8	0	1
Future Vol, veh/h	8	127	1	3	168	4	3	1	3	8	0	1
Conflicting Peds, #/hr	1	0	0	0	0	1	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	85	85	85	85	85	85	85	85	85	85	85	85
Heavy Vehicles, %	0	35	0	0	11	25	33	0	0	38	0	0
Mvmt Flow	9	149	1	4	198	5	4	1	4	9	0	1
Major/Minor M	lajor1		N	Major2		ľ	Minor1		N	Minor2		
Conflicting Flow All	204	0	0	150	0	0	377	380	150	380	378	202
Stage 1	-	-	-	-	-	-	168	168	-	210	210	
Stage 2	-	-	-	-	-	-	209	212	-	170	168	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.43	6.5	6.2	7.48	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.43	5.5	-	6.48	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.43	5.5	-	6.48	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.797	4	3.3	3.842	4	3.3
Pot Cap-1 Maneuver	1380	-	-	1444	-	-	528	556	902	518	557	844
Stage 1	-	-	-	-	-	-	766	763	-	717	732	-
Stage 2	-	-	-	-	-	-	727	731	-	754	763	-
Platoon blocked, %		-	-		-	-						
	1379	-	-	1444	-	-	523	550	902	511	551	843
Mov Cap-2 Maneuver	-	-	-	-	-	-	523	550	-	511	551	-
Stage 1	-	-	-	-	-	-	761	758	-	711	729	-
Stage 2	-	-	-	-	-	-	724	728	-	745	758	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.4			0.1			10.7			11.9		
HCM LOS							В			В		
Minor Lane/Major Mvmt		NBLn1	EBL	EBT	EBR	WBL	WBT	WBR S	SRI n1			
Capacity (veh/h)	. I	643	1379		EDR -	1444	VVDI	WDK .	534			
HCM Lane V/C Ratio		0.013		-		0.002		-	0.02			
HCM Control Delay (s)		10.7	7.6	0	-	7.5	0	-	11.9			
HCM Lane LOS		10.7 B	7.6 A	A	-	7.5 A	A	-	11.9 B			
HCM 95th %tile Q(veh)		0	0	- A	-	0	- A	-	0.1			
HOW FOUT FOUTE CE(VEIT)		0	- 0			- 0	_	_	U. I			

# <u>Capacity Analysis Summary Sheets</u> Year 2022 Base Weekday Evening Peak Hour Conditions

	-	•	•	←	1	-
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<b>†</b>	LDIN	**************************************	<b>↑</b> ↑	¥	, VDIC
Traffic Volume (vph)	509	7	42	898	23	17
Future Volume (vph)	509	7	42	898	23	17
Ideal Flow (vphpl)	1900	1900	1900	2000	1900	1900
Lane Width (ft)	10	100	10	10	16	16
Grade (%)	0%	10	10	0%	0%	10
Storage Length (ft)	070	0	115	070	0 /8	0
Storage Lanes		0	113		1	0
Taper Length (ft)			80		25	
Lane Util. Factor	0.95	0.95	1.00	0.95	1.00	1.00
Ped Bike Factor	1.00	0.73	1.00	0.73	0.99	1.00
Frt	0.998		1.00		0.942	
FIt Protected	0.998		0.950		0.942	
	2110	0		2100		0
Satd. Flow (prot)	3119	0	1203	3198	1762	0
Flt Permitted	2110		0.425	2400	0.972	0
Satd. Flow (perm)	3119	0	537	3198	1762	0
Right Turn on Red		Yes				Yes
Satd. Flow (RTOR)	3				18	
Link Speed (mph)	30			30	30	
Link Distance (ft)	679			1450	1670	
Travel Time (s)	15.4			33.0	38.0	
Confl. Peds. (#/hr)		2	2			4
Confl. Bikes (#/hr)						
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	7%	0%	40%	10%	0%	0%
Bus Blockages (#/hr)	4	4	0	4	0	0
Parking (#/hr)					0	0
Mid-Block Traffic (%)	0%			0%	0%	
Shared Lane Traffic (%)	3.3			3.3		
Lane Group Flow (vph)	537	0	44	935	42	0
Turn Type	NA	<u> </u>	Perm	NA	Prot	U
Protected Phases	2		1 CHIII	6	8	
Permitted Phases			6	U	U	
Detector Phase	2			4	0	
Switch Phase	2		6	6	8	
	ΕO		ΕO	ΕO	ΕΛ	
Minimum Initial (s)	5.0		5.0	5.0	5.0	
Minimum Split (s)	37.0		37.0	37.0	28.0	
Total Split (s)	37.0		37.0	37.0	28.0	
Total Split (%)	56.9%		56.9%	56.9%	43.1%	
Yellow Time (s)	3.0		3.0	3.0	3.0	
All-Red Time (s)	1.0		1.0	1.0	1.0	
Lost Time Adjust (s)	0.0		0.0	0.0	0.0	
Total Lost Time (s)	4.0		4.0	4.0	4.0	
Lead/Lag						
Lead-Lag Optimize?						
Recall Mode	Max		Max	Max	Max	
Act Effct Green (s)	33.0		33.0	33.0	24.0	
Actuated g/C Ratio	0.51		0.51	0.51	0.37	

	-	•	•	<b>←</b>	•	~
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
v/c Ratio	0.34		0.16	0.58	0.06	
Control Delay	7.0		10.5	12.9	9.5	
Queue Delay	0.0		0.0	0.0	0.0	
Total Delay	7.0		10.5	12.9	9.5	
LOS	Α		В	В	Α	
Approach Delay	7.0			12.8	9.5	
Approach LOS	А			В	Α	
Queue Length 50th (ft)	35		9	125	6	
Queue Length 95th (ft)	60		26	177	23	
Internal Link Dist (ft)	599			1370	1590	
Turn Bay Length (ft)			115			
Base Capacity (vph)	1584		272	1623	661	
Starvation Cap Reductn	0		0	0	0	
Spillback Cap Reductn	0		0	0	0	
Storage Cap Reductn	0		0	0	0	
Reduced v/c Ratio	0.34		0.16	0.58	0.06	
Intersection Summary						
Area Type:	Other					
Cycle Length: 65						
Actuated Cycle Length: 65						
Offset: 60 (92%), Reference	ced to phase 2	2:EBT and	l 6:WBT	L, Start of	f Green	
Natural Cycle: 65						
Control Type: Pretimed						
Maximum v/c Ratio: 0.58						
Intersection Signal Delay:					ersection	
Intersection Capacity Utiliz	ation 45.2%			IC	U Level o	f Service A
Analysis Period (min) 15						
Splits and Phases: 1: No	ormal Avenue	& Pershi	na Roac	I		
Spints and Fridades.	orritar / tveride	C T CISIII	ig rtouc	•		
<b>→</b> Ø2 (R)						
37 s						
Ø6 (R)						<b>★</b> Ø8

Intersection						
Int Delay, s/veh	0.5					
	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<b>ተ</b> ኈ		<u>ነ</u>	<b>^</b>	W	
Traffic Vol, veh/h	512	14	8	914	26	12
Future Vol, veh/h	512	14	8	914	26	12
Conflicting Peds, #/hr	0	2	2	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	60	-	0	-
Veh in Median Storage, a	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	97	97	97	97	97	97
Heavy Vehicles, %	7	0	0	12	0	0
Mymt Flow	528	14	8	942	27	12
	020			,	=-	
	ajor1		Major2		Minor1	
Conflicting Flow All	0	0	544	0	1024	273
Stage 1	-	-	-	-	537	-
Stage 2	-	-	-	-	487	-
Critical Hdwy	-	-	4.1	-	6.8	6.9
Critical Hdwy Stg 1	-	-	-	-	5.8	-
Critical Hdwy Stg 2	-	-	-	-	5.8	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	1035	-	235	731
Stage 1	-	-	-	-	556	-
Stage 2	-	-	-	-	589	-
Platoon blocked, %	-	-		_		
Mov Cap-1 Maneuver	-	_	1033	-	233	729
Mov Cap-2 Maneuver	_	_	-	_	233	-
Stage 1	_	_	_	_	555	_
Stage 2	_	_	_	_	584	_
Jiago Z					JU4	
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.1		19	
HCM LOS					С	
Minor Lane/Major Mvmt	N	NBLn1	EBT	EBR	WBL	WBT
	I			LDK		VVDI
				-	1033	-
Capacity (veh/h)		297	-			
Capacity (veh/h) HCM Lane V/C Ratio		0.132	-		0.008	-
Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)		0.132 19	-	-	0.008 8.5	-
Capacity (veh/h) HCM Lane V/C Ratio		0.132	-		0.008	

Intersection							
Intersection Delay, s/veh	16.6						
Intersection LOS	С						
Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	<b>†</b>	LDIT	ሻ	<b>^</b>	¥	HUIT	
Traffic Vol, veh/h	511	13	72	913	9	37	
Future Vol, veh/h	511	13	72	913	9	37	
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	
Heavy Vehicles, %	7	0	3	12	0	0	
Mvmt Flow	544	14	77	971	10	39	
Number of Lanes	2	0	1	2	1	0	
Approach	EB		WB		NB		
Opposing Approach	WB		EB		110		
Opposing Lanes	3		2		0		
Conflicting Approach Left			NB		EB		
Conflicting Lanes Left	0		1		2		
Conflicting Approach Right	NB		•		WB		
Conflicting Lanes Right	1		0		3		
HCM Control Delay	17.8		16.2		10.6		
HCM LOS	С		С		В		
Lane		NBLn1	EBLn1	EBLn2	WBLn1	WBLn2	WBLn3
Lane Vol Left, %		NBLn1 20%	EBLn1	EBLn2	WBLn1 100%	WBLn2	WBLn3
Lane Vol Left, % Vol Thru, %							
Vol Left, % Vol Thru, %		20%	0%	0%	100%	0%	0%
Vol Left, %		20% 0%	0% 100%	0% 93%	100% 0%	0% 100%	0% 100%
Vol Left, % Vol Thru, % Vol Right, % Sign Control		20% 0% 80%	0% 100% 0%	0% 93% 7%	100% 0% 0%	0% 100% 0%	0% 100% 0%
Vol Left, % Vol Thru, % Vol Right, %		20% 0% 80% Stop	0% 100% 0% Stop	0% 93% 7% Stop	100% 0% 0% Stop	0% 100% 0% Stop	0% 100% 0% Stop
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane		20% 0% 80% Stop 46	0% 100% 0% Stop 341	0% 93% 7% Stop 183	100% 0% 0% Stop 72	0% 100% 0% Stop 457	0% 100% 0% Stop 457
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol		20% 0% 80% Stop 46 9	0% 100% 0% Stop 341	0% 93% 7% Stop 183	100% 0% 0% Stop 72 72	0% 100% 0% Stop 457	0% 100% 0% Stop 457
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol		20% 0% 80% Stop 46 9	0% 100% 0% Stop 341 0	0% 93% 7% Stop 183 0	100% 0% 0% Stop 72 72 0	0% 100% 0% Stop 457 0	0% 100% 0% Stop 457 0
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol		20% 0% 80% Stop 46 9 0	0% 100% 0% Stop 341 0 341	0% 93% 7% Stop 183 0 170	100% 0% 0% Stop 72 72 0	0% 100% 0% Stop 457 0 457	0% 100% 0% Stop 457 0 457
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate		20% 0% 80% Stop 46 9 0 37	0% 100% 0% Stop 341 0 341 0	0% 93% 7% Stop 183 0 170 13	100% 0% 0% Stop 72 72 0 0	0% 100% 0% Stop 457 0 457 0	0% 100% 0% Stop 457 0 457 0
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp		20% 0% 80% Stop 46 9 0 37 49	0% 100% 0% Stop 341 0 341 0 362	0% 93% 7% Stop 183 0 170 13	100% 0% 0% Stop 72 72 0 0	0% 100% 0% Stop 457 0 457 0 486	0% 100% 0% Stop 457 0 457 0 486
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X)		20% 0% 80% Stop 46 9 0 37 49 7 0.096	0% 100% 0% Stop 341 0 341 0 362 8 0.655	0% 93% 7% Stop 183 0 170 13 195 8 0.343	100% 0% 0% Stop 72 72 0 0 77 7	0% 100% 0% Stop 457 0 457 0 486 7	0% 100% 0% Stop 457 0 457 0 486 7
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap		20% 0% 80% Stop 46 9 0 37 49 7 0.096 7.065	0% 100% 0% Stop 341 0 341 0 362 8 0.655 6.507	0% 93% 7% Stop 183 0 170 13 195 8 0.343 6.338	100% 0% 0% Stop 72 72 0 0 77 7 0.127 5.955	0% 100% 0% Stop 457 0 457 0 486 7 0.756 5.605 Yes 651	0% 100% 0% Stop 457 0 457 0 486 7 0.484 3.588
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time		20% 0% 80% Stop 46 9 0 37 49 7 0.096 7.065 Yes 508 4.799	0% 100% 0% Stop 341 0 341 0 362 8 0.655 6.507 Yes 558 4.228	0% 93% 7% Stop 183 0 170 13 195 8 0.343 6.338 Yes 570 4.058	100% 0% 0% Stop 72 72 0 0 77 7 0.127 5.955 Yes 606 3.655	0% 100% 0% Stop 457 0 457 0 486 7 0.756 5.605 Yes 651 3.305	0% 100% 0% Stop 457 0 457 0 486 7 0.484 3.588 Yes 986 1.387
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap		20% 0% 80% Stop 46 9 0 37 49 7 0.096 7.065 Yes 508 4.799 0.096	0% 100% 0% Stop 341 0 341 0 362 8 0.655 6.507 Yes 558 4.228 0.649	0% 93% 7% Stop 183 0 170 13 195 8 0.343 6.338 Yes 570 4.058 0.342	100% 0% 0% Stop 72 72 0 0 77 7 0.127 5.955 Yes 606 3.655 0.127	0% 100% 0% Stop 457 0 457 0 486 7 0.756 5.605 Yes 651 3.305 0.747	0% 100% 0% Stop 457 0 457 0 486 7 0.484 3.588 Yes 986 1.387 0.493
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HCM Lane V/C Ratio HCM Control Delay		20% 0% 80% Stop 46 9 0 37 49 7 0.096 7.065 Yes 508 4.799 0.096 10.6	0% 100% 0% Stop 341 0 341 0 362 8 0.655 6.507 Yes 558 4.228 0.649 20.8	0% 93% 7% Stop 183 0 170 13 195 8 0.343 6.338 Yes 570 4.058 0.342 12.3	100% 0% 0% Stop 72 72 0 0 77 7 0.127 5.955 Yes 606 3.655 0.127 9.5	0% 100% 0% Stop 457 0 457 0 486 7 0.756 5.605 Yes 651 3.305 0.747 23.6	0% 100% 0% Stop 457 0 457 0 486 7 0.484 3.588 Yes 986 1.387 0.493 9.8
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HCM Lane V/C Ratio		20% 0% 80% Stop 46 9 0 37 49 7 0.096 7.065 Yes 508 4.799 0.096	0% 100% 0% Stop 341 0 341 0 362 8 0.655 6.507 Yes 558 4.228 0.649	0% 93% 7% Stop 183 0 170 13 195 8 0.343 6.338 Yes 570 4.058 0.342	100% 0% 0% Stop 72 72 0 0 77 7 0.127 5.955 Yes 606 3.655 0.127	0% 100% 0% Stop 457 0 457 0 486 7 0.756 5.605 Yes 651 3.305 0.747	0% 100% 0% Stop 457 0 457 0 486 7 0.484 3.588 Yes 986 1.387 0.493

Intersection												
Intersection Delay, s/veh	9.2											
Intersection LOS	Α											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	8	157	24	10	204	7	23	24	1	11	18	19
Future Vol, veh/h	8	157	24	10	204	7	23	24	1	11	18	19
Peak Hour Factor	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Heavy Vehicles, %	0	3	4	0	14	0	0	4	0	18	6	11
Mvmt Flow	9	185	28	12	240	8	27	28	1	13	21	22
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	1			1			1			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	1			1			1			1		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	1			1			1			1		
HCM Control Delay	9.1			9.5			8.6			8.7		
HCM LOS	Α			А			Α			Α		
Lane		NBLn1	EBLn1	WBLn1	SBLn1							
Vol Left, %		48%	4%	5%	23%							

Lane	NBLn1	EBLn1	WBLn1	SBLn1	
Vol Left, %	48%	4%	5%	23%	
Vol Thru, %	50%	83%	92%	38%	
Vol Right, %	2%	13%	3%	40%	
Sign Control	Stop	Stop	Stop	Stop	
Traffic Vol by Lane	48	189	221	48	
LT Vol	23	8	10	11	
Through Vol	24	157	204	18	
RT Vol	1	24	7	19	
Lane Flow Rate	56	222	260	56	
Geometry Grp	1	1	1	1	
Degree of Util (X)	0.081	0.272	0.319	0.081	
Departure Headway (Hd)	5.133	4.406	4.422	5.163	
Convergence, Y/N	Yes	Yes	Yes	Yes	
Cap	696	816	814	692	
Service Time	3.178	2.435	2.45	3.209	
HCM Lane V/C Ratio	0.08	0.272	0.319	0.081	
HCM Control Delay	8.6	9.1	9.5	8.7	
HCM Lane LOS	А	Α	Α	Α	
HCM 95th-tile Q	0.3	1.1	1.4	0.3	

Intersection	
ntersection Delay, s/veh	9.1
Intersection Delay, s/veh Intersection LOS	Α

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	4	148	17	17	202	14	15	2	12	6	2	4
Future Vol, veh/h	4	148	17	17	202	14	15	2	12	6	2	4
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Heavy Vehicles, %	25	1	24	0	12	0	27	0	0	17	0	0
Mvmt Flow	5	168	19	19	230	16	17	2	14	7	2	5
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	1			1			1			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	1			1			1			1		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	1			1			1			1		
HCM Control Delay	9.2			9.1			8.5			8.3		
HCM LOS	Α			Α			Α			Α		

Lane	NBLn1	EBLn1	WBLn1	SBLn1	
Vol Left, %	52%	2%	7%	50%	
Vol Thru, %	7%	88%	87%	17%	
Vol Right, %	41%	10%	6%	33%	
Sign Control	Stop	Stop	Stop	Stop	
Traffic Vol by Lane	29	169	233	12	
LT Vol	15	4	17	6	
Through Vol	2	148	202	2	
RT Vol	12	17	14	4	
Lane Flow Rate	33	192	265	14	
Geometry Grp	1	1	1	1	
Degree of Util (X)	0.048	0.248	0.31	0.02	
Departure Headway (Hd)	5.256	4.658	4.215	5.161	
Convergence, Y/N	Yes	Yes	Yes	Yes	
Cap	682	774	855	694	
Service Time	3.281	2.671	2.225	3.187	
HCM Lane V/C Ratio	0.048	0.248	0.31	0.02	
HCM Control Delay	8.5	9.2	9.1	8.3	
HCM Lane LOS	А	Α	Α	Α	
HCM 95th-tile Q	0.2	1	1.3	0.1	

Movement   EBL   EBT   EBR   WBL   WBT   WBR   NBL   NBT   NBR   SBL   SBT   SBR   SBT   SBR   SBT   SBR   SBT   SBR   SBT   SBT
Lane Configurations         Image: Configuration of the property of the proper
Lane Configurations         Image: Configuration of the property of the proper
Traffic Vol, veh/h         4         159         3         6         212         7         11         1         10         8         2         10           Future Vol, veh/h         4         159         3         6         212         7         11         1         10         8         2         10           Conflicting Peds, #/hr         10         0         0         0         10         3         0         0         0         0         3           Sign Control         Free         Free         Free         Free         Free         Free         Stop
Conflicting Peds, #/hr         10         0         0         0         0         10         3         0         0         0         0         3           Sign Control         Free         Free         Free         Free         Free         Free         Stop
Sign Control Free Free Free Free Free Free Stop Stop Stop Stop Stop Stop Stop Stop
RT Channelized None None None Storage Length
Storage Length
Veh in Median Storage, # - 0 0 0 -
Grade, % - 0 0 0 -
Peak Hour Factor 90 90 90 90 90 90 90 90 90 90 90 90
Heavy Vehicles, % 0 1 0 0 11 0 0 0 13 0 0
Mvmt Flow 4 177 3 7 236 8 12 1 11 9 2 11
Major/Minor Major1 Major2 Minor1 Minor2
Conflicting Flow All 254 0 0 180 0 0 451 455 179 457 452 253
Stage 1 187 187 - 264 264 -
Stage 2 264 268 - 193 188 -
Critical Hdwy 4.1 4.1 7.1 6.5 6.2 7.23 6.5 6.2
Critical Hdwy Stg 1 6.1 5.5 - 6.23 5.5 -
Critical Hdwy Stg 2 6.1 5.5 - 6.23 5.5 -
Follow-up Hdwy 2.2 2.2 3.5 4 3.3 3.617 4 3.3
Pot Cap-1 Maneuver 1323 1408 522 504 869 496 506 791
Stage 1 819 749 - 718 694 -
Stage 2 746 691 - 784 748 -
Platoon blocked, %
Mov Cap-1 Maneuver 1310 1408 508 494 869 481 496 782
Mov Cap-2 Maneuver 508 494 - 481 496 -
Stage 1 817 747 - 709 683 -
Stage 2 727 680 - 771 746 -
Approach EB WB NB SB
HCM Control Delay, s 0.2 0.2 11 11.3
HCM LOS B B
TIOWI EOS D D
Allow Love March NIDL of FDT FDD WISH WIST WISD CDL 4
Minor Lane/Major Mvmt NBLn1 EBL EBT EBR WBL WBT WBR SBLn1
Capacity (veh/h) 625 1310 1408 598
HCM Lane V/C Ratio 0.039 0.003 0.005 0.037
HCM Control Delay (s) 11 7.8 0 - 7.6 0 - 11.3
HCM Lane LOS B A A - A A - B
HCM 95th %tile Q(veh) 0.1 0 0 0.1

<u>Capacity Analysis Summary Sheets</u> 2028 Projected Weekday Morning Peak Hour Conditions

	-	$\rightarrow$	•	←	•	_
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<b>†</b> }		ች	<b>^</b>	W	
Traffic Volume (vph)	666	27	34	684	23	33
Future Volume (vph)	666	27	34	684	23	33
Ideal Flow (vphpl)	1900	1900	1900	2000	1900	1900
Lane Width (ft)	10	10	10	10	16	16
Grade (%)	0%	10	10	0%	0%	
Storage Length (ft)	070	0	115	070	0	0
Storage Lanes		0	113		1	0
Taper Length (ft)		U	80		25	U
Lane Util. Factor	0.95	0.95	1.00	0.95	1.00	1.00
Ped Bike Factor	0.75	0.75	1.00	0.75	1.00	1.00
Frt	0.994				0.921	
Fit Protected	0.994		0.950		0.921	
	2405	0		2022		0
Satd. Flow (prot)	2695	0	1256	3033	1467	0
Flt Permitted	0/05		0.302	0000	0.980	•
Satd. Flow (perm)	2695	0	399	3033	1467	0
Right Turn on Red		Yes				Yes
Satd. Flow (RTOR)	9				37	
Link Speed (mph)	30			30	30	
Link Distance (ft)	679			1450	1670	
Travel Time (s)	15.4			33.0	38.0	
Confl. Peds. (#/hr)						
Confl. Bikes (#/hr)						
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	23%	30%	32%	16%	4%	30%
Bus Blockages (#/hr)	4	4	4	4	0	0
Parking (#/hr)				,	0	0
Mid-Block Traffic (%)	0%			0%	0%	-
Shared Lane Traffic (%)	0 70			0 70	070	
` ,	770	0	38	760	63	0
Lane Group Flow (vph)		U				U
Turn Type	NA		Perm	NA	Prot	
Protected Phases	2		,	6	8	
Permitted Phases			6			
Detector Phase	2		6	6	8	
Switch Phase						
Minimum Initial (s)	5.0		5.0	5.0	5.0	
Minimum Split (s)	37.0		37.0	37.0	28.0	
Total Split (s)	37.0		37.0	37.0	28.0	
Total Split (%)	56.9%		56.9%	56.9%	43.1%	
Yellow Time (s)	3.0		3.0	3.0	3.0	
All-Red Time (s)	1.0		1.0	1.0	1.0	
Lost Time Adjust (s)	0.0		0.0	0.0	0.0	
Total Lost Time (s)	4.0		4.0	4.0	4.0	
Lead/Lag						
Lead-Lag Optimize?						
Recall Mode	Max		Max	Max	Max	
Act Effct Green (s)	33.0		33.0	33.0	24.0	
Actuated g/C Ratio	0.51		0.51	0.51	0.37	

Ø6 (R)

## Lanes, Volumes, Timings 1: Normal Avenue & Pershing Road

	-	$\rightarrow$	•	←	•	~	
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR	
v/c Ratio	0.56		0.19	0.49	0.11		
Control Delay	8.6		11.7	11.9	8.1		
Queue Delay	0.0		0.0	0.0	0.0		
Total Delay	8.6		11.7	11.9	8.1		
LOS	А		В	В	Α		
Approach Delay	8.6			11.9	8.1		
Approach LOS	А			В	Α		
Queue Length 50th (ft)	117		8	96	6		
Queue Length 95th (ft)	171		25	139	28		
Internal Link Dist (ft)	599			1370	1590		
Turn Bay Length (ft)			115				
Base Capacity (vph)	1372		202	1539	565		
Starvation Cap Reductn	0		0	0	0		
Spillback Cap Reductn	0		0	0	0		
Storage Cap Reductn	0		0	0	0		
Reduced v/c Ratio	0.56		0.19	0.49	0.11		
Intersection Summary							
Area Type:	Other						
Cycle Length: 65							
Actuated Cycle Length: 65							
Offset: 60 (92%), Reference	ced to phase :	2:EBT and	6:WB1	ΓL, Start o	f Green		
Natural Cycle: 65							
Control Type: Pretimed							
Maximum v/c Ratio: 0.56							
Intersection Signal Delay:					tersection		
Intersection Capacity Utiliz	ration 37.6%			IC	U Level of	of Service A	4
Analysis Period (min) 15							
Splits and Phases: 1: No	ormal Avenue	& Pershin	a Road	d			
r .			<u> </u>				
J → Ø2 (R) 37 s							

Intersection						
Int Delay, s/veh	0.7					
	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	ተኈ			<b>^</b>	W	
Traffic Vol, veh/h	671	28	50	707	11	27
Future Vol, veh/h	671	28	50	707	11	27
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	60	-	0	-
Veh in Median Storage, a	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	93	93	93	93	93	93
Heavy Vehicles, %	23	11	10	17	0	19
Mvmt Flow	722	30	54	760	12	29
	,		0.	, 00		_,
	ajor1		Major2		Minor1	
Conflicting Flow All	0	0	752	0	1225	376
Stage 1	-	-	-	-	737	-
Stage 2	-	-	-	-	488	-
Critical Hdwy	-	-	4.3	-	6.8	7.28
Critical Hdwy Stg 1	-	-	-	-	5.8	-
Critical Hdwy Stg 2	-	-	-	-	5.8	-
Follow-up Hdwy	-	-	2.3	-	3.5	3.49
Pot Cap-1 Maneuver	-	-	803	-	174	575
Stage 1	-	_	-		439	-
Stage 2	_	_	_	_	588	_
Platoon blocked, %	_				500	
Mov Cap-1 Maneuver	-		803	-	162	575
					162	
Mov Cap-2 Maneuver	-	-	-	-		-
Stage 1	-	-	-	-	439	-
Stage 2	-	-	-	-	549	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.6		17.4	
HCM LOS	U		0.0		17.4 C	
TIGIVI LUS					C	
Minor Lane/Major Mvmt	I	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		331			803	_
HCM Lane V/C Ratio		0.123	_	_	0.067	_
HCM Control Delay (s)		17.4	_	_	9.8	_
HCM Lane LOS		C	-	_	Α.	-
HCM 95th %tile Q(veh)		0.4		-	0.2	
HOW YOU WILL Q(Ven)		0.4	-	-	0.2	-

Intersection							
Intersection Delay, s/veh	22.5						
Intersection LOS	22.5 C						
Intersection LOS							
Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	<b>∱</b> ∱		ሻ		W		
Traffic Vol, veh/h	676	22	48	747	10	47	
Future Vol, veh/h	676	22	48	747	10	47	
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	
Heavy Vehicles, %	23	18	10	17	10	11	
Mvmt Flow	719	23	51	795	11	50	
Number of Lanes	2	0	1	2	1	0	
Approach	EB		WB		NB		
Opposing Approach	WB		EB				
Opposing Lanes	3		2		0		
Conflicting Approach Left			NB		EB		
Conflicting Lanes Left	0		1		2		
Conflicting Approach Right	NB				WB		
Conflicting Lanes Right	1		0		3		
HCM Control Delay	32.2		14.7		11.2		
HCM LOS	D		В		В		
Lane		NBLn1	EBLn1	EBLn2	WBLn1	WBLn2	WBLn3
Lane Vol Left, %		18%	0%	0%	100%	0%	0%
		18% 0%	0% 100%	0% 91%	100% 0%	0% 100%	0% 100%
Vol Left, % Vol Thru, % Vol Right, %		18%	0%	0%	100%	0%	0% 100% 0%
Vol Left, % Vol Thru, %		18% 0%	0% 100%	0% 91%	100% 0%	0% 100%	0% 100% 0% Stop
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane		18% 0% 82% Stop 57	0% 100% 0%	0% 91% 9% Stop 247	100% 0% 0% Stop 48	0% 100% 0% Stop 374	0% 100% 0%
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol		18% 0% 82% Stop	0% 100% 0% Stop 451	0% 91% 9% Stop 247	100% 0% 0% Stop	0% 100% 0% Stop 374	0% 100% 0% Stop 374
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol		18% 0% 82% Stop 57 10	0% 100% 0% Stop 451	0% 91% 9% Stop 247 0 225	100% 0% 0% Stop 48	0% 100% 0% Stop 374	0% 100% 0% Stop 374
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol		18% 0% 82% Stop 57 10 0	0% 100% 0% Stop 451 0 451	0% 91% 9% Stop 247 0 225 22	100% 0% 0% Stop 48 48 0	0% 100% 0% Stop 374 0 374	0% 100% 0% Stop 374 0 374
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate		18% 0% 82% Stop 57 10 0 47 61	0% 100% 0% Stop 451 0 451 0	0% 91% 9% Stop 247 0 225 22 263	100% 0% 0% Stop 48 48 0	0% 100% 0% Stop 374 0 374 0	0% 100% 0% Stop 374 0
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol		18% 0% 82% Stop 57 10 0	0% 100% 0% Stop 451 0 451	0% 91% 9% Stop 247 0 225 22	100% 0% 0% Stop 48 48 0	0% 100% 0% Stop 374 0 374	0% 100% 0% Stop 374 0 374
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate		18% 0% 82% Stop 57 10 0 47 61	0% 100% 0% Stop 451 0 451 0	0% 91% 9% Stop 247 0 225 22 263	100% 0% 0% Stop 48 48 0	0% 100% 0% Stop 374 0 374 0	0% 100% 0% Stop 374 0 374 0 397 7
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp		18% 0% 82% Stop 57 10 0 47 61	0% 100% 0% Stop 451 0 451 0 479	0% 91% 9% Stop 247 0 225 22 263	100% 0% 0% Stop 48 48 0 0	0% 100% 0% Stop 374 0 374 0 397	0% 100% 0% Stop 374 0 374 0 397
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X)		18% 0% 82% Stop 57 10 0 47 61 7 0.124	0% 100% 0% Stop 451 0 451 0 479 8 0.887 6.66 Yes	0% 91% 9% Stop 247 0 225 22 263 8 0.476 6.512 Yes	100% 0% 0% Stop 48 48 0 0 51 7 0.091 6.417 Yes	0% 100% 0% Stop 374 0 374 0 397 7 0.666	0% 100% 0% Stop 374 0 374 0 397 7 0.444 4.026 Yes
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd)		18% 0% 82% Stop 57 10 0 47 61 7 0.124 7.384	0% 100% 0% Stop 451 0 451 0 479 8 0.887 6.66	0% 91% 9% Stop 247 0 225 22 263 8 0.476 6.512	100% 0% 0% Stop 48 48 0 0 51 7 0.091 6.417 Yes 558	0% 100% 0% Stop 374 0 374 7 0.666 6.033	0% 100% 0% Stop 374 0 374 0 397 7 0.444 4.026
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N		18% 0% 82% Stop 57 10 0 47 61 7 0.124 7.384 Yes	0% 100% 0% Stop 451 0 451 0 479 8 0.887 6.66 Yes 547 4.397	0% 91% 9% Stop 247 0 225 22 263 8 0.476 6.512 Yes 553 4.249	100% 0% 0% Stop 48 0 0 51 7 0.091 6.417 Yes 558 4.158	0% 100% 0% Stop 374 0 374 7 0.666 6.033 Yes 600 3.773	0% 100% 0% Stop 374 0 374 0 397 7 0.444 4.026 Yes
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap		18% 0% 82% Stop 57 10 0 47 61 7 0.124 7.384 Yes 484	0% 100% 0% Stop 451 0 451 0 479 8 0.887 6.66 Yes 547	0% 91% 9% Stop 247 0 225 22 263 8 0.476 6.512 Yes 553	100% 0% 0% Stop 48 48 0 0 51 7 0.091 6.417 Yes 558	0% 100% 0% Stop 374 0 374 7 0.666 6.033 Yes 600	0% 100% 0% Stop 374 0 374 0 397 7 0.444 4.026 Yes 890
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time		18% 0% 82% Stop 57 10 0 47 61 7 0.124 7.384 Yes 484 5.14	0% 100% 0% Stop 451 0 451 0 479 8 0.887 6.66 Yes 547 4.397	0% 91% 9% Stop 247 0 225 22 263 8 0.476 6.512 Yes 553 4.249	100% 0% 0% Stop 48 0 0 51 7 0.091 6.417 Yes 558 4.158	0% 100% 0% Stop 374 0 374 7 0.666 6.033 Yes 600 3.773	0% 100% 0% Stop 374 0 374 4.026 Yes 890 1.765

0.4

10.1

2.5

0.3

5

2.3

HCM 95th-tile Q

ntersection	
ntersection Delay, s/veh	9.1
ntersection LOS	Α

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	15	145	4	7	188	14	18	19	13	14	8	1
Future Vol, veh/h	15	145	4	7	188	14	18	19	13	14	8	1
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Heavy Vehicles, %	33	28	0	0	9	7	0	5	8	7	13	100
Mvmt Flow	17	163	4	8	211	16	20	21	15	16	9	1
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	1			1			1			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	1			1			1			1		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	1			1			1			1		
HCM Control Delay	9.6			9			8.2			8.4		
HCM LOS	Α			Α			Α			Α		

Lane	NBLn1	EBLn1	WBLn1	SBLn1	
Vol Left, %	36%	9%	3%	61%	
Vol Thru, %	38%	88%	90%	35%	
Vol Right, %	26%	2%	7%	4%	
Sign Control	Stop	Stop	Stop	Stop	
Traffic Vol by Lane	50	164	209	23	
LT Vol	18	15	7	14	
Through Vol	19	145	188	8	
RT Vol	13	4	14	1	
Lane Flow Rate	56	184	235	26	
Geometry Grp	1	1	1	1	
Degree of Util (X)	0.075	0.251	0.28	0.037	
Departure Headway (Hd)	4.82	4.912	4.288	5.162	
Convergence, Y/N	Yes	Yes	Yes	Yes	
Cap	743	733	841	694	
Service Time	2.849	2.932	2.306	3.194	
HCM Lane V/C Ratio	0.075	0.251	0.279	0.037	
HCM Control Delay	8.2	9.6	9	8.4	
HCM Lane LOS	А	А	Α	А	
HCM 95th-tile Q	0.2	1	1.1	0.1	

Intersection	
Intersection Delay, s/veh	9
Intersection LOS	Α

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	11	130	7	8	189	21	24	8	8	8	2	7
Future Vol, veh/h	11	130	7	8	189	21	24	8	8	8	2	7
Peak Hour Factor	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Heavy Vehicles, %	9	32	0	0	7	43	13	0	0	88	0	14
Mvmt Flow	13	155	8	10	225	25	29	10	10	10	2	8
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	1			1			1			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	1			1			1			1		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	1			1			1			1		
HCM Control Delay	8.8			9.1			8.5			9.5		
HCM LOS	Α			Α			Α			Α		

Lane	NBLn1	EBLn1	WBLn1	SBLn1	
Vol Left, %	60%	7%	4%	47%	
Vol Thru, %	20%	88%	87%	12%	
Vol Right, %	20%	5%	10%	41%	
Sign Control	Stop	Stop	Stop	Stop	
Traffic Vol by Lane	40	148	218	17	
LT Vol	24	11	8	8	
Through Vol	8	130	189	2	
RT Vol	8	7	21	7	
Lane Flow Rate	48	176	260	20	
Geometry Grp	1	1	1	1	
Degree of Util (X)	0.068	0.22	0.305	0.035	
Departure Headway (Hd)	5.115	4.492	4.229	6.282	
Convergence, Y/N	Yes	Yes	Yes	Yes	
Cap	700	802	851	570	
Service Time	3.145	2.509	2.243	4.315	
HCM Lane V/C Ratio	0.069	0.219	0.306	0.035	
HCM Control Delay	8.5	8.8	9.1	9.5	
HCM Lane LOS	А	А	А	А	
HCM 95th-tile Q	0.2	0.8	1.3	0.1	

Intersection												
Int Delay, s/veh	0.7											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	8	137	1	3	214	4	3	1	3	8	0	1
Future Vol, veh/h	8	137	1	3	214	4	3	1	3	8	0	1
Conflicting Peds, #/hr	1	0	0	0	0	1	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	85	85	85	85	85	85	85	85	85	85	85	85
Heavy Vehicles, %	0	35	0	0	10	25	33	0	0	38	0	0
Mvmt Flow	9	161	1	4	252	5	4	1	4	9	0	1
Major/Minor N	/lajor1		1	Major2		ľ	Minor1			Minor2		
Conflicting Flow All	258	0	0	162	0	0	443	446	162	446	444	256
Stage 1	-	-	-	-	-	-	180	180	-	264	264	-
Stage 2	-	-	-	-	-	-	263	266	-	182	180	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.43	6.5	6.2	7.48	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.43	5.5	-	6.48	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.43	5.5	-	6.48	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.797	4	3.3	3.842	4	3.3
Pot Cap-1 Maneuver	1318	-	-	1429	-	-	476	510	888	466	511	788
Stage 1	-	-	-	-	-	-	755	754	-	669	694	-
Stage 2	-	-	-	-	-	-	679	692	-	743	754	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1317	-	-	1429	-	-	471	504	888	459	505	787
Mov Cap-2 Maneuver	-	-	-	-	-	-	471	504	-	459	505	-
Stage 1	-	-	-	-	-	-	749	748	-	663	691	-
Stage 2	-	-	-	-	-	-	676	689	-	733	748	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.4			0.1			11.1			12.7		
HCM LOS							В			В		
Minor Lane/Major Mvmt	t I	VBLn1	EBL	EBT	EBR	WBL	WBT	WBR:	SBLn1			
Capacity (veh/h)		597	1317	-	-	1429	-	-	481			
HCM Lane V/C Ratio		0.014		-	_	0.002	_	_	0.022			
HCM Control Delay (s)		11.1	7.8	0	-	7.5	0	-	12.7			
HCM Lane LOS		В	A	A	-	A	A	-	В			
HCM 95th %tile Q(veh)		0	0	-	-	0	-	-	0.1			

Intersection						
Int Delay, s/veh	0.6					
		EDT	WDT	WDD	CDI	CDD
Movement Lane Configurations	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	)E	147	<b>₽</b> 206	11	¥	2
Traffic Vol. veh/h	25	147		14	1	3
Future Vol, veh/h	25	147	206	14	1	3
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,		0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	29	9	0	0	0
Mvmt Flow	26	155	217	15	1	3
Major/Minor N	/lajor1	N	Major2	N	/linor2	
Conflicting Flow All	232	0	-	0	432	225
Stage 1	-	-	_	-	225	-
Stage 2	_	_	_	_	207	_
Critical Hdwy	4.1	-		_	6.4	6.2
Critical Hdwy Stg 1	4.1		_	_	5.4	0.2
Critical Hdwy Stg 2		-	-		5.4	-
	2.2	-	-	-		3.3
Follow-up Hdwy		-	-	-	3.5	
Pot Cap-1 Maneuver	1348	-	-	-	584	819
Stage 1	-	-	-	-	817	-
Stage 2	-	-	-	-	832	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1348	_		_	572	819
	1010		_			017
Mov Cap-2 Maneuver	-	-	-	-	572	-
Stage 1		-	- -		572 800	
	-	-	-	-	572	-
Stage 1	-	-	- - -	-	572 800	-
Stage 1 Stage 2	- - -	-	- - -	-	572 800 832	-
Stage 1 Stage 2 Approach	- - - EB	-	- - - - WB	-	572 800 832 SB	-
Stage 1 Stage 2  Approach HCM Control Delay, s	- - -	-	- - - - WB	-	572 800 832 SB 9.9	-
Stage 1 Stage 2 Approach	- - - EB	-		-	572 800 832 SB	-
Stage 1 Stage 2  Approach HCM Control Delay, s HCM LOS	EB 1.1	-	0	-	572 800 832 SB 9.9 A	-
Stage 1 Stage 2  Approach HCM Control Delay, s	EB 1.1	-		-	572 800 832 SB 9.9	-
Stage 1 Stage 2  Approach HCM Control Delay, s HCM LOS  Minor Lane/Major Mvmt Capacity (veh/h)	EB 1.1	-	0	-	572 800 832 SB 9.9 A	SBLn1
Stage 1 Stage 2  Approach HCM Control Delay, s HCM LOS  Minor Lane/Major Mvmt	EB 1.1	EBL	0	- - - WBT	572 800 832 SB 9.9 A	- - - SBLn1
Stage 1 Stage 2  Approach HCM Control Delay, s HCM LOS  Minor Lane/Major Mvmt Capacity (veh/h)	EB 1.1	EBL 1348	0 EBT	- - - WBT	572 800 832 SB 9.9 A	- - - - - - SBLn1 739
Stage 1 Stage 2  Approach HCM Control Delay, s HCM LOS  Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio	EB 1.1	EBL 1348 0.02	0 EBT -	WBT	572 800 832 SB 9.9 A	SBLn1 739 0.006
Stage 1 Stage 2  Approach HCM Control Delay, s HCM LOS  Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)	EB 1.1	EBL 1348 0.02 7.7	0 EBT - - 0	WBT -	572 800 832 SB 9.9 A WBR :	SBLn1 739 0.006 9.9

### 8: Princeton Avenue & North Site Access Drive

Intersection						
Int Delay, s/veh	0.7					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥	LDIX	INDL	4	\$	ODIT
Traffic Vol, veh/h	2	2	4	25	50	16
Future Vol, veh/h	2	2	4	25	50	16
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	Slop -	None	riee -	None	riee -	None
Storage Length	0	NOTIC	-	None -	-	None -
		-				
Veh in Median Storage,		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	100	50	32	12	0
Mvmt Flow	2	2	4	26	53	17
Major/Minor M	inor2	N	/lajor1	N	/lajor2	
Conflicting Flow All	96	62	70	0	-	0
Stage 1	62	-	-	-	_	-
Stage 2	34	_	_	_	_	_
Critical Hdwy	6.4	7.2	4.6	_	_	_
Critical Hdwy Stg 1	5.4	- 1.2	4.0		_	
	5.4		-		-	
Critical Hdwy Stg 2		- 4.0	275	-	-	-
Follow-up Hdwy	3.5	4.2	2.65	-	-	-
Pot Cap-1 Maneuver	908	785	1275	-	-	-
Stage 1	966	-	-	-	-	-
Stage 2	994	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	905	785	1275	-	-	-
Mov Cap-2 Maneuver	905	-	-	-	-	-
Stage 1	963	-	-	-	-	-
Stage 2	994	-	-	-	-	-
Approach	EB		NB		SB	
HCM Control Delay, s	9.3		1.1		0	
HCM LOS	Α					
Minor Lane/Major Mvmt		NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)		1275	_			_
HCM Lane V/C Ratio		0.003		0.005		_
HCM Control Delay (s)		7.8	0	9.3	_	
HCM Lane LOS		7.6 A	A	9.3 A	-	-
HCM 95th %tile Q(veh)		0	A -	0 0	-	-
HOW FOUT WITHE CLAGED		U	-	U	-	-

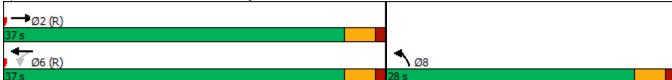
Intersection						
Int Delay, s/veh	1.8					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥			4	₽	
Traffic Vol, veh/h	5	2	16	24	15	37
Future Vol, veh/h	5	2	16	24	15	37
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage,		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	42	53	0
Mvmt Flow	5	2	17	25	16	39
		_				
	inor2		/lajor1		/lajor2	
Conflicting Flow All	95	36	55	0	-	0
Stage 1	36	-	-	-	-	-
Stage 2	59	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	909	1042	1563	-	-	-
Stage 1	992	-	-	-	-	-
Stage 2	969	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	899	1042	1563	-	-	-
Mov Cap-2 Maneuver	899	-	-	_	-	_
Stage 1	981	_	_	_	_	_
Stage 2	969	-				_
Staye 2	707	-	-	-	-	-
Approach	EB		NB		SB	
HCM Control Delay, s	8.9		2.9		0	
HCM LOS	А					
		NDI	Not	EDL 4	ODT	000
Minor Lane/Major Mvmt		NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)		1563	-	936	-	-
HCM Lane V/C Ratio		0.011	-	0.008	-	-
HCM Control Delay (s)		7.3	0	8.9	-	-
HCM Lane LOS		Α	Α	Α	-	-
HCM 95th %tile Q(veh)		0	-	0	-	-

<u>Capacity Analysis Summary Sheets</u> 2028 Projected Weekday Evening Peak Hour Conditions

	-	•	•	←	4	~
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<b>†</b>		ኘ	**	W	
Traffic Volume (vph)	556	9	44	945	35	29
Future Volume (vph)	556	9	44	945	35	29
Ideal Flow (vphpl)	1900	1900	1900	2000	1900	1900
Lane Width (ft)	10	10	10	10	16	16
Grade (%)	0%	10	10	0%	0%	10
Storage Length (ft)	070	0	115	070	0	0
Storage Lanes		0	113		1	0
Taper Length (ft)		U	80		25	U
Lane Util. Factor	0.95	0.95	1.00	0.95	1.00	1.00
Ped Bike Factor	1.00	0.70	1.00	0.70	0.99	1.00
Frt			1.00			
	0.998		0.050		0.939	
Flt Protected	0115		0.950	2400	0.973	0
Satd. Flow (prot)	3115	0	1195	3198	1627	0
Flt Permitted	0=		0.396	0.122	0.973	
Satd. Flow (perm)	3115	0	497	3198	1627	0
Right Turn on Red		Yes				Yes
Satd. Flow (RTOR)	3				30	
Link Speed (mph)	30			30	30	
Link Distance (ft)	679			1450	1670	
Travel Time (s)	15.4			33.0	38.0	
Confl. Peds. (#/hr)		2	2			4
Confl. Bikes (#/hr)						
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	7%	11%	41%	100%	3%	14%
Bus Blockages (#/hr)	4	4	4170	4	0	0
	4	4	U	4	0	0
Parking (#/hr)	0%			00/	0%	U
Mid-Block Traffic (%)	U%			0%	υ%	
Shared Lane Traffic (%)	500		.,	60.4		
Lane Group Flow (vph)	588	0	46	984	66	0
Turn Type	NA		Perm	NA	Prot	
Protected Phases	2			6	8	
Permitted Phases			6			
Detector Phase	2		6	6	8	
Switch Phase						
Minimum Initial (s)	5.0		5.0	5.0	5.0	
Minimum Split (s)	37.0		37.0	37.0	28.0	
Total Split (s)	37.0		37.0	37.0	28.0	
Total Split (%)	56.9%		56.9%	56.9%	43.1%	
Yellow Time (s)	30.770		3.0	3.0	3.0	
All-Red Time (s)	1.0		1.0	1.0	1.0	
Lost Time Adjust (s)	0.0		0.0	0.0	0.0	
Total Lost Time (s)	4.0		4.0	4.0	4.0	
Lead/Lag						
Lead-Lag Optimize?						
Recall Mode	Max		Max	Max	Max	
Act Effct Green (s)	33.0		33.0	33.0	24.0	
Actuated g/C Ratio	0.51		0.51	0.51	0.37	

## Lanes, Volumes, Timings 1: Normal Avenue & Pershing Road

	<b>→</b>	$\rightarrow$	•	•	<b>^</b>	/	
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR	
v/c Ratio	0.37		0.18	0.61	0.11		
Control Delay	6.8		11.0	13.4	9.2		
Queue Delay	0.0		0.0	0.0	0.0		
Total Delay	6.8		11.0	13.4	9.2		
LOS	А		В	В	Α		
Approach Delay	6.8			13.3	9.2		
Approach LOS	Α			В	Α		
Queue Length 50th (ft)	35		9	135	9		
Queue Length 95th (ft)	60		27	190	31		
Internal Link Dist (ft)	599			1370	1590		
Turn Bay Length (ft)			115				
Base Capacity (vph)	1582		252	1623	619		
Starvation Cap Reductn	0		0	0	0		
Spillback Cap Reductn	0		0	0	0		
Storage Cap Reductn	0		0	0	0		
Reduced v/c Ratio	0.37		0.18	0.61	0.11		
Intersection Summary							
Area Type:	Other						
Cycle Length: 65							
Actuated Cycle Length: 65							
Offset: 60 (92%), Reference	ced to phase :	2:EBT and	6:WB1	ΓL, Start o	f Green		
Natural Cycle: 65							
Control Type: Pretimed							
Maximum v/c Ratio: 0.61							
Intersection Signal Delay:				In	tersection	LOS: B	
Intersection Capacity Utiliz	ation 46.5%			IC	U Level o	of Service	eΑ
Analysis Period (min) 15							
Splits and Phases: 1: No	ormal Avenue	& Pershin	a Road	4			
Spints and Fridades.	ormar / tv criac	7 Q 1 C1311111	g rtout				
<b>→</b> Ø2 (R)							



Intersection						
Int Delay, s/veh	1.2					
		EDD	MA	MOT	ND	NDD
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	ተኈ			<b>^</b>	¥	
Traffic Vol, veh/h	569	16	13	947	42	51
Future Vol, veh/h	569	16	13	947	42	51
Conflicting Peds, #/hr	0	2	2	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	60	-	0	-
Veh in Median Storage,	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	97	97	97	97	97	97
Heavy Vehicles, %	7	0	0	12	0	0
Mvmt Flow	587	16	13	976	43	53
WWW. From	007	10	10	770	10	00
	lajor1	N	Najor2	N	/linor1	
Conflicting Flow All	0	0	605	0	1111	304
Stage 1	-	-	-	-	597	-
Stage 2	-	-	-	-	514	-
Critical Hdwy	-	-	4.1	-	6.8	6.9
Critical Hdwy Stg 1	-	-	-	-	5.8	-
Critical Hdwy Stg 2	-	-	-	-	5.8	-
Follow-up Hdwy	_		2.2	_	3.5	3.3
Pot Cap-1 Maneuver	_	_	983	_	206	698
Stage 1	_	_	-	_	518	-
Stage 2			_	_	571	_
Platoon blocked, %		_		-	J/ I	
	-	-	001		202	/07
Mov Cap-1 Maneuver	-	-	981	-	203	697
Mov Cap-2 Maneuver	-	-	-	-	203	-
Stage 1	-	-	-	-	517	-
Stage 2	-	-	-	-	564	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.1		20.2	
HCM LOS	U		0.1		C	
TIOW LOG						
Minor Lane/Major Mvmt	1	VBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		332	-	-	981	-
HCM Lane V/C Ratio		0.289	-	-	0.014	-
HCM Control Delay (s)		20.2	-		8.7	-
HCM Lane LOS		C	_	_	A	_
HCM 95th %tile Q(veh)		1.2	_		0	_
1151VI 75111 70111C Q(VCII)		1.4			U	

Intersection							
Intersection Delay, s/veh	20.7						
Intersection LOS	С						
Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	<b>↑</b> ↑	LDI	ሻ	<b>^</b>	¥	HUIT	
Traffic Vol, veh/h	607	13	74	951	9	38	
Future Vol, veh/h	607	13	74	951	9	38	
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	
Heavy Vehicles, %	7	0	3	12	0	0	
Mvmt Flow	646	14	79	1012	10	40	
Number of Lanes	2	0	1	2	1	0	
Approach	EB		WB		NB		
Opposing Approach	WB		EB		IND		
Opposing Lanes	3		2		0		
Conflicting Approach Left	<u>3</u>		NB		EB		
Conflicting Lanes Left	0		1		2		
Conflicting Approach Right	NB		ļ		WB		
Conflicting Lanes Right	1		0		3		
HCM Control Delay	24.3		19		10.9		
HCM LOS	24.3 C		C		В		
	0		-				
Lana		NDI n1	FDI n1	EDI 22	WDI n1	WDI	WDI no
Lane Vol.1 off. 9/		NBLn1	EBLn1	EBLn2	WBLn1	WBLn2	WBLn3
Vol Left, %		19%	0%	0%	100%	0%	0%
Vol Left, % Vol Thru, %		19% 0%	0% 100%	0% 94%	100% 0%	0% 100%	0% 100%
Vol Left, % Vol Thru, % Vol Right, %		19% 0% 81%	0% 100% 0%	0% 94% 6%	100% 0% 0%	0% 100% 0%	0% 100% 0%
Vol Left, % Vol Thru, % Vol Right, % Sign Control		19% 0% 81% Stop	0% 100% 0% Stop	0% 94% 6% Stop	100% 0% 0% Stop	0% 100% 0% Stop	0% 100% 0% Stop
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane		19% 0% 81% Stop 47	0% 100% 0% Stop 405	0% 94% 6% Stop 215	100% 0% 0% Stop 74	0% 100% 0% Stop 476	0% 100% 0% Stop 476
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol		19% 0% 81% Stop 47	0% 100% 0% Stop 405	0% 94% 6% Stop 215	100% 0% 0% Stop 74 74	0% 100% 0% Stop 476	0% 100% 0% Stop 476
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol		19% 0% 81% Stop 47 9	0% 100% 0% Stop 405 0	0% 94% 6% Stop 215 0 202	100% 0% 0% Stop 74 74 0	0% 100% 0% Stop 476 0	0% 100% 0% Stop 476 0
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol		19% 0% 81% Stop 47 9 0	0% 100% 0% Stop 405 0 405	0% 94% 6% Stop 215 0 202	100% 0% 0% Stop 74 74 0	0% 100% 0% Stop 476 0 476	0% 100% 0% Stop 476 0 476
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate		19% 0% 81% Stop 47 9 0 38 50	0% 100% 0% Stop 405 0 405 0 430	0% 94% 6% Stop 215 0 202 13	100% 0% 0% Stop 74 74 0	0% 100% 0% Stop 476 0 476 0 506	0% 100% 0% Stop 476 0 476 0
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp		19% 0% 81% Stop 47 9 0 38 50	0% 100% 0% Stop 405 0 405 0 430	0% 94% 6% Stop 215 0 202 13 229	100% 0% 0% Stop 74 74 0 0	0% 100% 0% Stop 476 0 476 0 506	0% 100% 0% Stop 476 0 476 0 506
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X)		19% 0% 81% Stop 47 9 0 38 50 7	0% 100% 0% Stop 405 0 405 0 430 8 0.791	0% 94% 6% Stop 215 0 202 13 229 8 0.411	100% 0% 0% Stop 74 74 0 0 79 7	0% 100% 0% Stop 476 0 476 0 506 7	0% 100% 0% Stop 476 0 476 0 506 7
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd)		19% 0% 81% Stop 47 9 0 38 50 7 0.102 7.32	0% 100% 0% Stop 405 0 405 0 430 8 0.791 6.617	0% 94% 6% Stop 215 0 202 13 229 8 0.411 6.455	100% 0% 0% Stop 74 74 0 0 79 7 0.134 6.142	0% 100% 0% Stop 476 0 476 0 506 7 0.809 5.756	0% 100% 0% Stop 476 0 476 0 506 7 0.544 3.872
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N		19% 0% 81% Stop 47 9 0 38 50 7 0.102 7.32 Yes	0% 100% 0% Stop 405 0 405 0 430 8 0.791 6.617 Yes	0% 94% 6% Stop 215 0 202 13 229 8 0.411 6.455 Yes	100% 0% 0% Stop 74 74 0 0 79 7 0.134 6.142 Yes	0% 100% 0% Stop 476 0 476 0 506 7 0.809 5.756 Yes	0% 100% 0% Stop 476 0 476 0 506 7 0.544 3.872 Yes
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap		19% 0% 81% Stop 47 9 0 38 50 7 0.102 7.32 Yes 489	0% 100% 0% Stop 405 0 405 0 430 8 0.791 6.617 Yes 547	0% 94% 6% Stop 215 0 202 13 229 8 0.411 6.455 Yes 557	100% 0% 0% Stop 74 74 0 0 79 7 0.134 6.142 Yes 587	0% 100% 0% Stop 476 0 476 0 506 7 0.809 5.756 Yes 627	0% 100% 0% Stop 476 0 476 0 506 7 0.544 3.872 Yes 936
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time		19% 0% 81% Stop 47 9 0 38 50 7 0.102 7.32 Yes 489 5.077	0% 100% 0% Stop 405 0 405 0 430 8 0.791 6.617 Yes 547 4.358	0% 94% 6% Stop 215 0 202 13 229 8 0.411 6.455 Yes 557 4.196	100% 0% 0% Stop 74 74 0 0 79 7 0.134 6.142 Yes 587	0% 100% 0% Stop 476 0 476 0 506 7 0.809 5.756 Yes 627 3.492	0% 100% 0% Stop 476 0 476 0 506 7 0.544 3.872 Yes 936 1.572
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HCM Lane V/C Ratio		19% 0% 81% Stop 47 9 0 38 50 7 0.102 7.32 Yes 489 5.077 0.102	0% 100% 0% Stop 405 0 405 0 430 8 0.791 6.617 Yes 547 4.358 0.786	0% 94% 6% Stop 215 0 202 13 229 8 0.411 6.455 Yes 557 4.196 0.411	100% 0% 0% Stop 74 74 0 0 79 7 0.134 6.142 Yes 587 3.842 0.135	0% 100% 0% Stop 476 0 476 0 506 7 0.809 5.756 Yes 627 3.492 0.807	0% 100% 0% Stop 476 0 476 0 506 7 0.544 3.872 Yes 936 1.572 0.541
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HCM Lane V/C Ratio HCM Control Delay		19% 0% 81% Stop 47 9 0 38 50 7 0.102 7.32 Yes 489 5.077 0.102 10.9	0% 100% 0% Stop 405 0 405 0 430 8 0.791 6.617 Yes 547 4.358 0.786 30	0% 94% 6% Stop 215 0 202 13 229 8 0.411 6.455 Yes 557 4.196 0.411 13.7	100% 0% 0% Stop 74 74 0 0 79 7 0.134 6.142 Yes 587 3.842 0.135 9.8	0% 100% 0% Stop 476 0 476 0 506 7 0.809 5.756 Yes 627 3.492 0.807 28.4	0% 100% 0% Stop 476 0 476 0 506 7 0.544 3.872 Yes 936 1.572 0.541 11.1
Vol Left, % Vol Thru, % Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HCM Lane V/C Ratio		19% 0% 81% Stop 47 9 0 38 50 7 0.102 7.32 Yes 489 5.077 0.102	0% 100% 0% Stop 405 0 405 0 430 8 0.791 6.617 Yes 547 4.358 0.786	0% 94% 6% Stop 215 0 202 13 229 8 0.411 6.455 Yes 557 4.196 0.411	100% 0% 0% Stop 74 74 0 0 79 7 0.134 6.142 Yes 587 3.842 0.135	0% 100% 0% Stop 476 0 476 0 506 7 0.809 5.756 Yes 627 3.492 0.807	0% 100% 0% Stop 476 0 476 0 506 7 0.544 3.872 Yes 936 1.572 0.541

Geometry Grp Degree of Util (X)

Convergence, Y/N

HCM Lane V/C Ratio

**HCM Control Delay** 

HCM Lane LOS

HCM 95th-tile Q

Service Time

Cap

Departure Headway (Hd)

Intersection												
Intersection Delay, s/veh	9.7											
Intersection LOS	Α											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	8	179	25	10	234	14	24	25	1	15	19	22
Future Vol, veh/h	8	179	25	10	234	14	24	25	1	15	19	22
Peak Hour Factor	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Heavy Vehicles, %	0	3	4	0	12	0	0	4	0	20	5	14
Mvmt Flow	9	211	29	12	275	16	28	29	1	18	22	26
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	1			1			1			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	1			1			1			1		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	1			1			1			1		
HCM Control Delay	9.6			10.2			8.9			9		
HCM LOS	Α			В			А			Α		
Lane		NBLn1	EBLn1	WBLn1	SBLn1							
Vol Left, %		48%	4%	4%	27%							
Vol Thru, %		50%	84%	91%	34%							
Vol Right, %		2%	12%	5%	39%							
Sign Control		Stop	Stop	Stop	Stop							
Traffic Vol by Lane		50	212	258	56							
LT Vol		24	8	10	15							
Through Vol		25	179	234	19							
RT Vol		1	25	14	22							
Lane Flow Rate		59	249	304	66							

0.098

5.374

Yes

663

0.1

9

Α

0.3

3.439

0.087

5.313

Yes

670

3.378

0.088

8.9

Α

0.3

0.312

4.501

Yes

796

2.541

0.313

9.6

1.3

Α

0.378

4.481

Yes

801

2.519

0.38

10.2

В

1.8

ersection
ersection Delay, s/veh 9.5
ersection LOS A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	5	180	21	18	211	17	15	3	12	18	5	8
Future Vol, veh/h	5	180	21	18	211	17	15	3	12	18	5	8
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Heavy Vehicles, %	20	2	19	0	12	6	27	0	0	11	0	0
Mvmt Flow	6	205	24	20	240	19	17	3	14	20	6	9
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	1			1			1			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	1			1			1			1		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	1			1			1			1		
HCM Control Delay	9.7			9.5			8.8			8.6		
HCM LOS	А			Α			Α			А		

Lane	NBLn1	EBLn1	WBLn1	SBLn1	
Vol Left, %	50%	2%	7%	58%	
Vol Thru, %	10%	87%	86%	16%	
Vol Right, %	40%	10%	7%	26%	
Sign Control	Stop	Stop	Stop	Stop	
Traffic Vol by Lane	30	206	246	31	
LT Vol	15	5	18	18	
Through Vol	3	180	211	5	
RT Vol	12	21	17	8	
Lane Flow Rate	34	234	280	35	
Geometry Grp	1	1	1	1	
Degree of Util (X)	0.051	0.303	0.335	0.051	
Departure Headway (Hd)	5.425	4.656	4.317	5.253	
Convergence, Y/N	Yes	Yes	Yes	Yes	
Cap	659	773	833	681	
Service Time	3.465	2.678	2.338	3.292	
HCM Lane V/C Ratio	0.052	0.303	0.336	0.051	
HCM Control Delay	8.8	9.7	9.5	8.6	
HCM Lane LOS	А	Α	Α	А	
HCM 95th-tile Q	0.2	1.3	1.5	0.2	

Intersection												
Int Delay, s/veh	1.1											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	4	203	3	6	225	7	11	1	10	8	2	10
Future Vol, veh/h	4	203	3	6	225	7	11	1	10	8	2	10
Conflicting Peds, #/hr	11	0	0	0	0	11	3	0	0	0	0	3
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90
Heavy Vehicles, %	0	2	0	0	12	0	0	0	0	13	0	0
Mvmt Flow	4	226	3	7	250	8	12	1	11	9	2	11
Major/Minor M	lajor1			Major2			Minor1			Minor2		
Conflicting Flow All	269	0	0	229	0	0	514	519	228	521	516	268
Stage 1		-	-		-	-	236	236	-	279	279	-
Stage 2	-	_	-	-	_	-	278	283	-	242	237	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.1	6.5	6.2	7.23	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.23	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.23	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.617	4	3.3
Pot Cap-1 Maneuver	1306	-	-	1351	-	-	474	464	816	449	466	776
Stage 1	-	-	-	-	-	-	772	713	-	704	683	-
Stage 2	-	-	-	-	-	-	733	681	-	738	713	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1292	-	-	1351	-	-	461	455	816	434	457	766
Mov Cap-2 Maneuver	-	-	-	-	-	-	461	455	-	434	457	-
Stage 1	-	-	-	-	-	-	769	710	-	694	672	-
Stage 2	-	-	-	-	-	-	714	670	-	724	710	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.1			0.2			11.6			11.7		
HCM LOS	0.1			J.L			В			В		
Minor Lane/Major Mvmt	N	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR S	SRI n1			
	ľ											
Capacity (veh/h) HCM Lane V/C Ratio		574 0.043	1292	-	-	1351 0.005	-	-	558 0.04			
		11.6	7.8	0	-	7.7	- 0	-	11.7			
HCM Control Delay (s) HCM Lane LOS		11.6 B	7.8 A		-	7.7 A	0 A	-				
HCM 95th %tile Q(veh)		0.1	0	A -	-	0	A -	-	0.1			
HOW FOUT FOUND Q(VEH)		U. I	U	-		U	-	-	U. I			

Intersection						
Int Delay, s/veh	0.9					
		EDT	MOT	MED	CDI	CDD
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		स	4		¥	
Traffic Vol, veh/h	3	192	233	1	14	25
Future Vol, veh/h	3	192	233	1	14	25
Conflicting Peds, #/hr	2	0	0	2	0	0
3	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,	# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	4	12	0	0	0
Mvmt Flow	3	202	245	1	15	26
Major/Minor M	olor1	N	10ior2	Λ.	dinor?	
	ajor1		/lajor2		/linor2	240
Conflicting Flow All	248	0	-	0	456	248
Stage 1	-	-	-	-	248	-
Stage 2	-	-	-	-	208	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1330	-	-	-	566	796
Stage 1	-	-	-	-	798	-
Stage 2	-	-	-	-	832	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1327	-	-	-	562	794
Mov Cap-2 Maneuver	-	-	-	-	562	-
Stage 1	_	-	-	-	794	-
Stage 2	_	-	_	-	830	-
J. J. J.						
0 b	ED		MD		CD	
Approach	EB		WB		SB	
HCM Control Delay, s	0.1		0		10.5	
HCM LOS					В	
Minor Lane/Major Mvmt		EBL	EBT	WBT	WBR S	SBI n1
Capacity (veh/h)		1327	LDI	****	W Ditt	692
HCM Lane V/C Ratio		0.002	-	-	-	0.059
HCM Control Delay (s)		7.7	0	-	-	10.5
HCM Lane LOS		7.7 A	A	-		10.5 B
HCM 95th %tile Q(veh)		0	А	-	-	0.2
HOW 9501 Malle Q(ven)		U	-	-	_	U.Z

### 8: Princeton Avenue & North Site Access Drive

Intersection						
Int Delay, s/veh	1.8					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥	LDI	NDL	4	<u>351</u>	JUIN
Traffic Vol, veh/h	16	3	1	<b>58</b>	17	2
			1			
Future Vol, veh/h	16	3	1	58	17	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	, # 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	33	100	2	6	0
Mvmt Flow	17	3	1	61	18	2
	• •		•	0.		_
Major/Minor N	Minor2	N	Major1	N	Major2	
Conflicting Flow All	82	19	20	0	-	0
Stage 1	19	-	-	-	-	-
Stage 2	63	-	-	-	-	-
Critical Hdwy	6.4	6.53	5.1	_	-	-
Critical Hdwy Stg 1	5.4	-	-	_	_	_
Critical Hdwy Stg 2	5.4	-	_			_
	3.5	3.597	3.1	-	-	
Follow-up Hdwy					-	-
Pot Cap-1 Maneuver	925	976	1139	-	-	-
Stage 1	1009	-	-	-	-	-
Stage 2	965	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	924	976	1139	-	-	-
Mov Cap-2 Maneuver	924	-	-	-	-	-
Stage 1	1008	-	-	-	-	-
Stage 2	965	-	-	-	_	-
g · -	. 55					
Approach	EB		NB		SB	
HCM Control Delay, s	8.9		0.1		0	
HCM LOS	Α					
		NDI	NET	EDL 1	ODT	000
Minor Lane/Major Mvm	t	NBL	NBT I	EBLn1	SBT	SBR
Capacity (veh/h)		1139	-	932	-	-
HCM Lane V/C Ratio		0.001	-	0.021	-	-
HCM Control Delay (s)		8.2	0	8.9	-	-
HCM Lane LOS		Α	Α	Α	-	-
HCM 95th %tile Q(veh)		0	_	0.1	_	-
				3,1		

Intersection						
Int Delay, s/veh	5.2					
		EDD.	NDI	NDT	CDT	CDD
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥			4	ĵ»	_
Traffic Vol, veh/h	38	16	4	21	15	5
Future Vol, veh/h	38	16	4	21	15	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	, # 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	10	13	0
Mvmt Flow	40	17	4	22	16	5
N. 4 a i a w/N. 4 i a a w	A!		1-:1		1-1-1	
	Minor2		Major1		/lajor2	
Conflicting Flow All	49	19	21	0	-	0
Stage 1	19	-	-	-	-	-
Stage 2	30	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	965	1065	1608	-	-	-
Stage 1	1009	-	-	-	-	-
Stage 2	998	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	962	1065	1608	-	-	-
Mov Cap-2 Maneuver	962	-	-	-	_	_
Stage 1	1006	_	_	_	_	_
Stage 2	998	_	_	_	_	_
Jiage 2	770				_	
Approach	EB		NB		SB	
HCM Control Delay, s	8.9		1.2		0	
HCM LOS	Α					
Minor Lang/Major Muno	.+	NDI	NDT	EBLn1	CDT	CDD
Minor Lane/Major Mvm	II.	NBL			SBT	SBR
Capacity (veh/h)		1608	-		-	-
HCM Lane V/C Ratio		0.003		0.057	-	-
HCM Control Delay (s)		7.2	0	8.9	-	-
HCM Lane LOS		Α	Α	Α	-	-
HCM 95th %tile Q(veh)		0	-	0.2	-	-