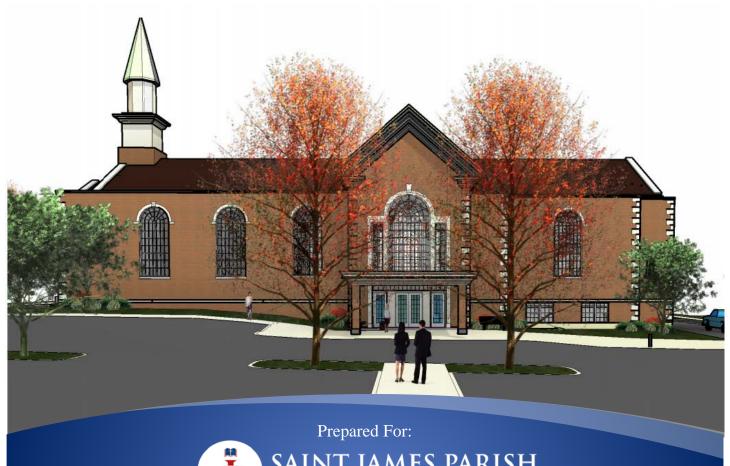
# Traffic and Parking Impact Study St. James Parish Expansion

Arlington Heights, Illinois





Prepared By:



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## 1. Introduction

This report summarizes the methodologies, results, and findings of a traffic and parking impact study conducted by Kenig, Lindgren, O'Hara, Aboona, Inc. (KLOA, Inc.) for the proposed expansion of the St. James Parish located in Arlington Heights, Illinois. The existing campus is bisected by Arlington Heights Road with the church building located on the east side of Arlington Road south of Frederick Street and the Parish Center and school building is located on the west side of Arlington Heights Road. As proposed, the existing three-level school building located south of the church will be razed and the church will be expanded to increase its capacity from approximately 679 seats to approximately 916 seats. Access to the church will continue to be provided via the existing access system serving the campus and via a proposed a right-in/right-out access drive off Arlington Heights Road.

The purpose of this study was to examine background traffic conditions, assess the impact that the proposed development will have on traffic conditions in the area, determine if any roadway or access improvements are necessary to accommodate traffic generated by the proposed expansion and evaluate the adequacy of the parking supply in accommodating the projected parking demand.

**Figure 1** shows the location of the site in relation to the area roadway system. **Figure 2** shows an aerial view of the site area.

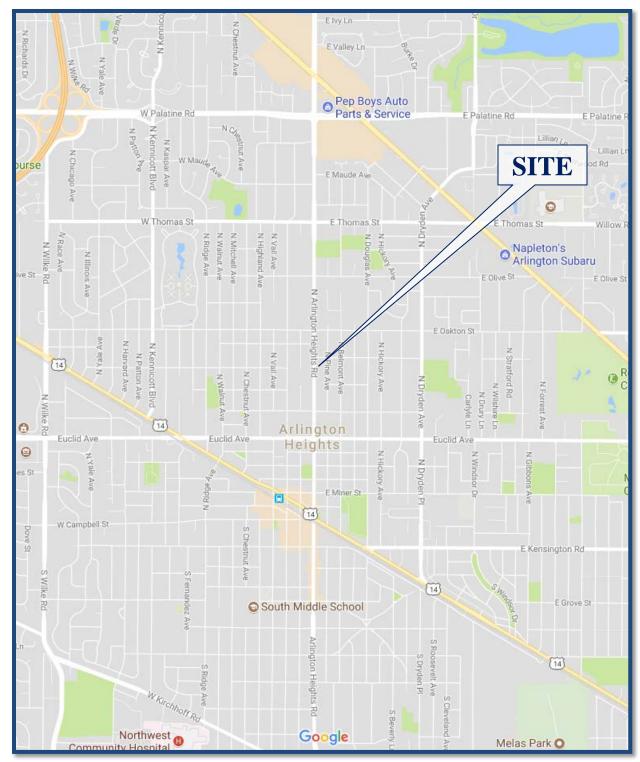
The sections of this report present the following:

- Existing roadway conditions
- A description of the proposed expansion
- Directional distribution of the expansion generated traffic
- Vehicle trip generation for the expansion
- Future traffic conditions including access to the church
- Traffic analyses for the Sunday morning, weekday morning and weekday afternoon peak hours
- Recommendations with respect to adequacy of the site access and adjacent roadway system.
- Parking Evaluation

Traffic capacity analyses were conducted for the Sunday morning, weekday morning and weekday afternoon peak hours for the following conditions:

- 1. Existing Conditions Analyze the capacity of the existing roadway system using existing peak hour traffic volumes in the surrounding area.
- 2. Projected Conditions Analyze the capacity of the future roadway system using the projected traffic volumes that include the existing traffic volumes, ambient area growth not attributable to any particular development, and the traffic estimated to be generated by the full buildout of the church expansion.





Site Location Figure 1





**Aerial View of Site Location** 

Figure 2



# 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 roadway system including lane usage and traffic control devices, and existing peak hour traffic volumes.

#### Site Location

The site, which is currently occupied by an existing church building and three-story school building is located in the southeast quadrant of the intersection of Arlington Heights Road with Frederick Street. The St. James Campus is bisected by Arlington Heights Road with the Church and a seldom used school building located on the east side of Arlington Heights Road and the St. James School and Parish Center are located on the west side of Arlington Heights Road. Land uses in the vicinity of the site are primarily residential in all directions and the St. James Campus is located approximately two-thirds of a mile north of Downtown Arlington Heights.

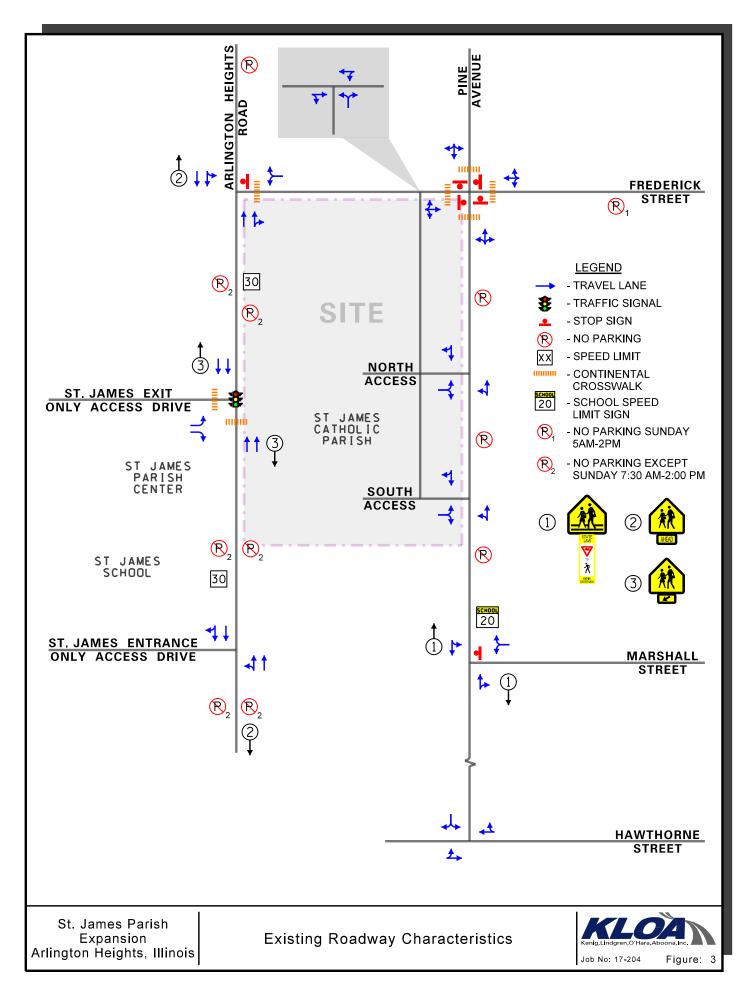
#### **Existing Roadway System Characteristics**

The characteristics of the existing roadways near the development are described below and illustrated in **Figure 3**.

Arlington Heights Road is a north-south arterial roadway that in the vicinity of the site provides two through lanes in each direction. At its signalized intersection with the St. James exit only access drive, Arlington Heights Road provides two through lanes and a high visibility crosswalk on the northbound approach and two through lanes on the southbound approach. At its unsignalized intersection with Frederick Street, Arlington Heights Road provides a through lane and a shared through/right-turn lane on the northbound approach and a shared left-turn/through lane and a through lane on the southbound approach. At its unsignalized intersection with the St. James entrance only access drive, Arlington Heights Road provides a shared left-turn/through lane and a through lane on the northbound approach and a through lane and a shared through/right-turn lane on the southbound approach. Arlington Heights Road is under the jurisdiction of the Illinois Department of Transportation, is not classified as a Strategic Regional Arterial, carries an annual average daily traffic (AADT) volume of 22,000 vehicles (IDOT AADT 2014) and has a posted speed limit of 30 miles per hour.

Frederick Street is an east-west local roadway that provides one lane in each direction and extends from Arlington Heights Road east to its terminus at Dryden Avenue. At its unsignalized intersection with Arlington Heights Road, Frederick Street provides a shared left/right-turn lane under stop-sign control and a high visibility crosswalk. At its all-way stop-sign controlled intersection with Pine Avenue, Frederick Street provides a shared left/through/right-turn lane and a high visibility crosswalk on both approaches. Frederick Street is under the jurisdiction of the Village of Arlington Heights.





*Pine Avenue* is a north-south local roadway that provides one lane in each direction and extends from Hawthorne Avenue north to its terminus 175 feet north of Oakton Street. At its all-way stop-sign controlled intersection with Frederick Street, Pine Avenue provides a shared left/through/right-turn lane and a high visibility crosswalk. At its unsignalized intersection with Marshall Street, Pine Avenue provides a shared through/right-turn lane on the northbound approach and a shared left-turn/through lane and a high visibility crosswalk on the southbound approach. At its unsignalized intersection with Hawthorne Street, Pine Avenue provides a shared left/right-turn lane. Pine Avenue is under the jurisdiction of the Village of Arlington Heights.

Marshall Street is an east-west local roadway that provides one lane in each direction and extends from Pine Avenue east to its terminus at Douglas Avenue. At its unsignalized intersection with Pine Avenue, Marshall Street provides a shared left/right-turn lane under stop-sign control and a high visibility crosswalk. Marshall Street is under the jurisdiction of the Village of Arlington Heights.

Hawthorne Street is an east-west local roadway that provides one lane in each direction and extends from Walnut Avenue (one-half mile west of Arlington Heights Road) east to its terminus at Dryden Avenue (one-half mile east of Arlington Heights Road). At its unsignalized intersection with Pine Avenue, Hawthorne Street provides a shared left-turn/through lane on the eastbound approach and a shared through/right-turn lane on the westbound approach.

#### Existing St. James Parish Operations

On Sunday morning, St. James offers two services in the church building with the first service at 7:00 A.M. and the second service is at 8:30 A.M. The other two services are held in the parish center with the third service at 10:00 A.M. and the fourth service at 11:30 P.M. An additional service is held at 5:00 P.M. on Saturday and Sunday evenings. For the Sunday services, parishioners park within the off-street parking lots on the east and west side of Arlington Heights Road as well as the on-street parking locations, including Arlington Heights Road, within the vicinity of the St. James Campus.

#### Existing St. James School Operations

St. James School enrolls approximately 500 students and a typical school day begins at 8:45 A.M. and ends at 3:35 P.M. St. James School also offers before and after school care programs that start at 7:00 A.M. and end at 6:00 P.M. There are two buses that serve the school. Buses loading occurs along the west side of Pine Avenue during morning drop-off morning and stage within the church parking lot during afternoon pick-up. Students that are bused cross Arlington Heights Road at its signalized intersection with the exit only access drive with the assistance of a crossing guard.

During morning drop-off activities, parents begin dropping off students within the school's parking lot at 8:00 A.M. with the majority drop-off activity ending by 8:40 A.M. Field observations conducted during morning drop-off showed that four faculty members advance vehicles to the northeast side of the school building and help unload students from vehicles. The morning drop-off queues were a maximum of eleven vehicles and queues did not extend to Arlington Heights Road.



During afternoon pick-up activity, parents begin arriving at approximately 3:00 PM and stack stadium style in approximately five rows of twelve vehicles with all vehicles located on the west side of the school building facing north. Additionally, similar pick-up stacking occurs on the east side of the church building with all vehicles facing south. All parents are required to park their vehicles and go to the main entrance of the school to pick up their students. Once all students are loaded into their vehicles, each row is released at a time. All pick-up activity ends by 3:45 P.M.

#### **Existing Traffic Volumes**

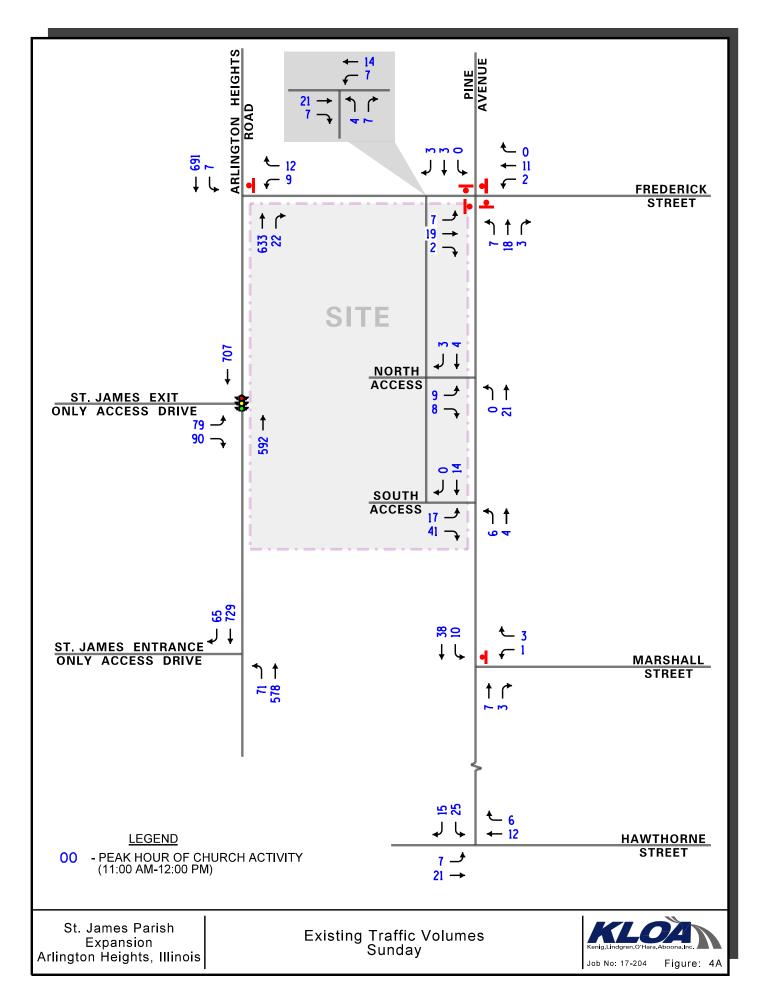
In order to determine current traffic conditions on the existing roads, KLOA, Inc. conducted peak period traffic counts utilizing Miovision Scout Collection Units at the following intersections:

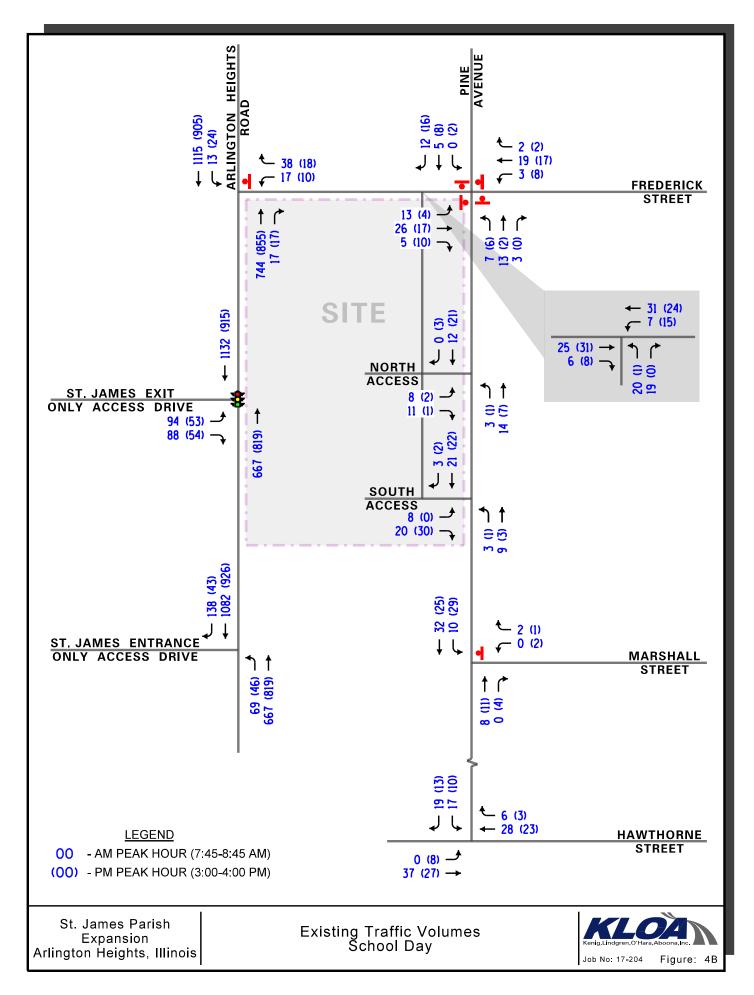
- Arlington Heights Road with Frederick Street
- Arlington Heights Road with the Signalized St. James Exit Only Access Drive
- Arlington Heights Road with the Unsignalized St. James Entrance Only Access Drive
- Frederick Street with Pine Avenue
- Pine Avenue with Marshall Street
- Pine Avenue with Hawthorne Street
- Pine Avenue with the Northerly St. James Access Drive
- Pine Avenue with the Southerly St. James Access Drive
- Frederick Street with the St. James Access Drive

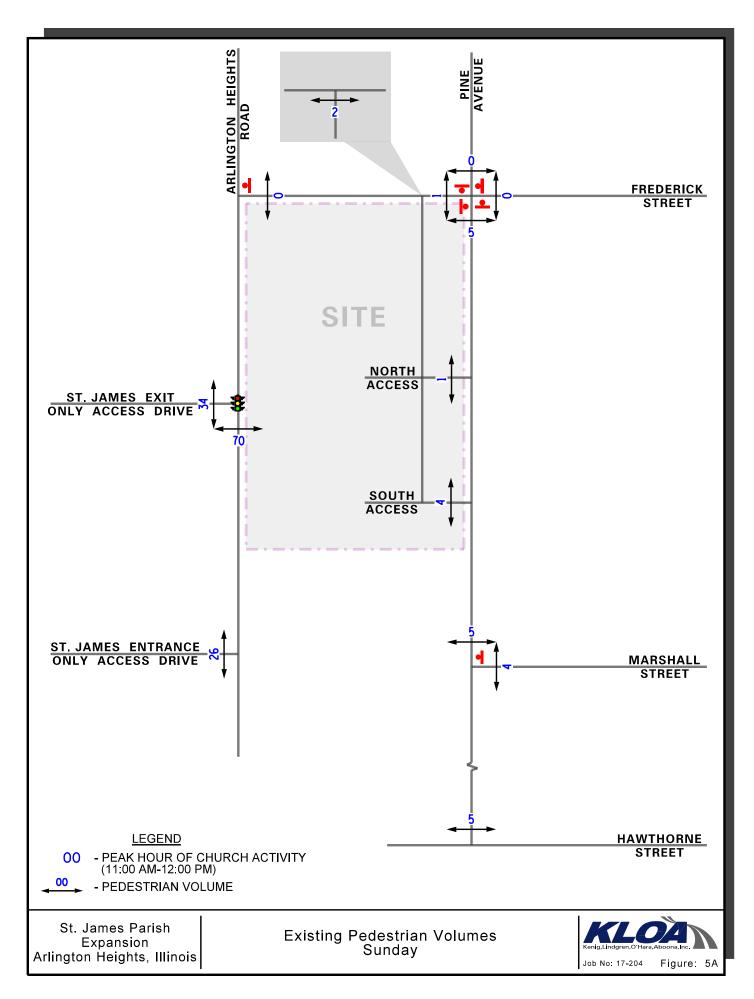
The traffic counts were conducted on Sunday, August 27, 2017 during the Sunday morning (9:00 A.M. to 12:00 Noon) peak period and on Tuesday, August 29, 2017 during the weekday morning (7:30 A.M. to 9:30 A.M.) and weekday afternoon (2:30 P.M. to 4:30 P.M.) peak periods. The results of the traffic counts showed that the Sunday morning peak hour of traffic occurred from 11:00 A.M. to 12:00 Noon, the weekday morning peak hour of traffic occurred from 7:45 A.M. to 8:45 A.M. and the weekday afternoon peak hour of traffic occurs from 3:00 P.M. to 4:00 P.M.

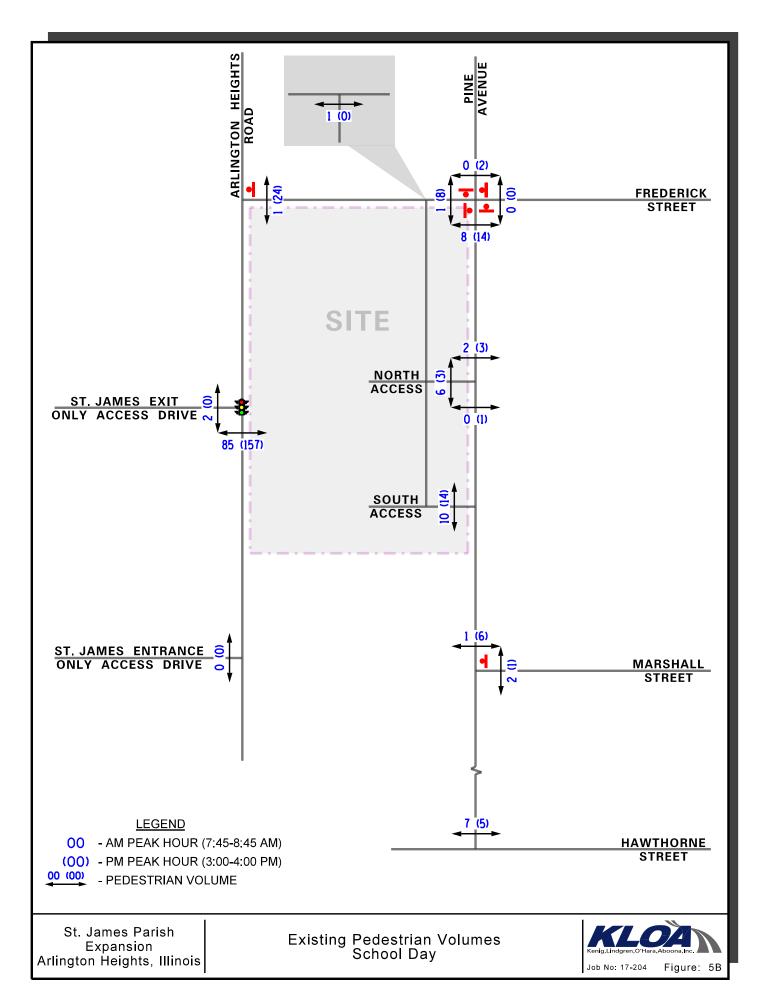
It should be noted that these peak periods and peak hours were chosen to correspond to the peak church and school activity on a Sunday and weekday, respectively. On Sunday, the 11:00 A.M. to 12:00 Noon peak hour captures the overlap of the departing traffic from the 10:00 A.M. service and the arriving traffic for the 11:30 A.M. service. This peak hour also carries the highest volume of traffic along Arlington Heights Road during the period. On a weekday, the 7:45 A.M. to 8:45 A.M. peak hour captures the majority of drop-off traffic and the 3:00 P.M. to 4:00 P.M. peak hour captures the majority of pick-up traffic for St. James School. **Figure 4A** illustrates the existing Sunday morning peak hour traffic volumes and **Figure 5A** illustrates the existing Sunday morning pedestrian volumes and **Figure 5B** illustrates the existing weekday morning and evening pedestrian volumes.











# 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 Site and Development Plan

As proposed, the existing three-story school building on the east side of Arlington Heights Road will be razed and the existing church building will be expanded by a total of 12,282 square-feet to increase the church capacity from approximately 679 seats to approximately 916 seats. Additionally, the parking lot on the east side of Arlington Heights Road will be expanded by 49 parking spaces increasing the capacity form 136 parking spaces to 185 parking spaces. The purpose of this expansion is to enhance the handicap accessibility of the existing church so that the expanded church can hold all services on Saturday evening and Sunday and to better distribute the attendance among the four Sunday services.

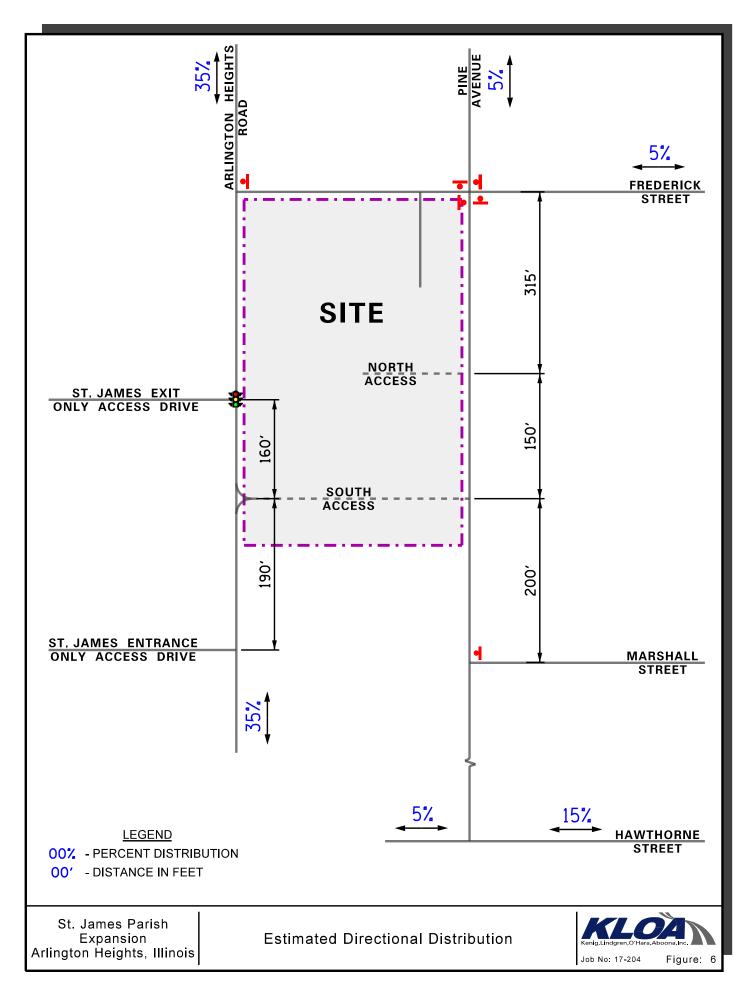
Access to the church will continue to be provided via the full movement access drive off Frederick Street and via the two full movement access drives off Pine Avenue. With the parking lot reconfiguration, the both access drives off Pine Avenue will be relocated approximately 50 feet south of their existing location. Access will also be provided via a proposed right-in/right-out access drive off Arlington Heights Road that will be located approximately 160 feet south of the exit only access drive and 190 feet north of the entrance only access drive. It should be noted that this access drive will replace an existing full movement curb cut provided at this location.

It should be noted that the proposed church expansion will not result in a modification to the operations of St. James School nor will result in an increase/decrease in enrollment. The pick-up/drop-off activity will remain the same for passenger vehicles and school buses, as previously described, and access to the school will continue to be provided via the two access drives off Arlington Heights Road.

#### **Directional Distribution**

The directions from which parishioners of the church will approach and depart the site were estimated based on the existing travel patterns, as determined from the traffic counts. **Figure 6** illustrates the directional distribution of traffic.





#### Peak Hour Traffic Volumes

The volume of traffic generated by a development is based on the type of land use and the size of the development. The number of new peak hour vehicle trips estimated to be generated by the expansion of the church was based on vehicle trip generation rates contained in *Trip Generation*, 9th Edition, published by the Institute of Transportation Engineers (ITE). The "Church" (Land-Use Code 860) rate was used. While the majority of new trips will occur on Sundays, in order to provide conservative analyses, weekday morning and afternoon trips were also estimated based on ITE's trip rates. **Table 1** shows the estimated number of new peak hour trips to be generated by the proposed development and the existing trip generation based on the results of the turning movement counts. As shown in Table 1, the development is estimated to generate approximately 145 two-way vehicle trips during the Sunday morning peak hour, 11 two-way vehicle trips during the weekday morning peak hour and 12 two-way vehicle trips during the weekday afternoon peak hour.

Table 1
PROJECTED SITE-GENERATED TRAFFIC VOLUMES

ITE Land		Sunday Morning Peak Hour				kday M Peak H	lorning our		Weekday Afternoon Peak Hour			
Use Code	Type/Size	In	Out	Total	In	Out	Total	In	Out	Total		
560	St. James Expansion (12,282 s.f./237 Seats)	73	72	145	6	5	11	6	6	12		
Exis	sting Trip Generation	159	255	414	22	86	108	30	34	64		
Tot	tal Trip Generation	232	327	559	28	91	119	36	40	76		



# 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 subject development.

#### **Development Traffic Assignment**

The estimated Sunday morning peak hour traffic volumes that will be generated by the proposed church expansion were combined to the existing trip generation for the Church. This total estimated site generated traffic was reassigned to the roadway system in accordance with the previously described directional distribution (Figure 6) and reflected that approximately 60 percent of the on-site parking spaces are provided on the east-campus. **Figure 7A** illustrates the traffic assignment for a typical Sunday morning peak hour.

As previously indicated, the proposed church expansion will not result in a modification to the operations of St. James School nor will result in an increase/decrease in enrollment. Therefore, the existing traffic volumes generated by St. James on a typical school day were not reassigned or modified. The estimated weekday morning and weekday afternoon peak hour traffic volumes that will be generated by the church expansion were assigned to the roadway system and to the access drives serving the east campus in accordance with the previously described directional distribution (Figure 6) taking into consideration that all of the expansion generated traffic will be arriving to and departing from the east campus. **Figure 7B** illustrates the traffic assignment for the weekday morning and afternoon peak hours.

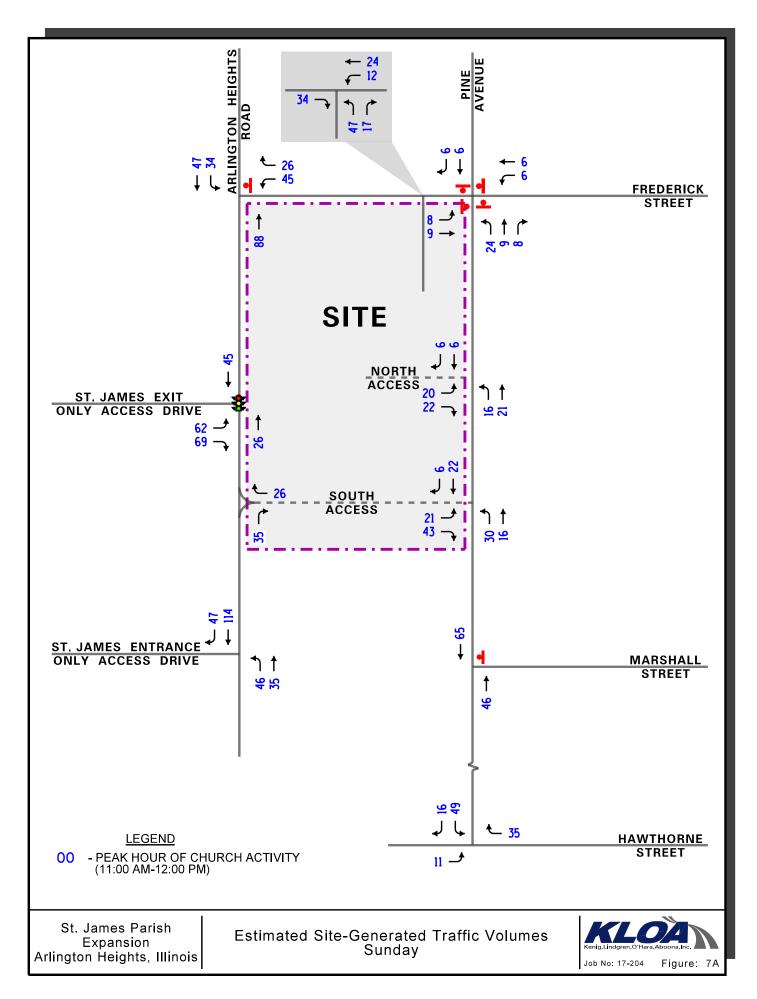
#### **Background Traffic Conditions**

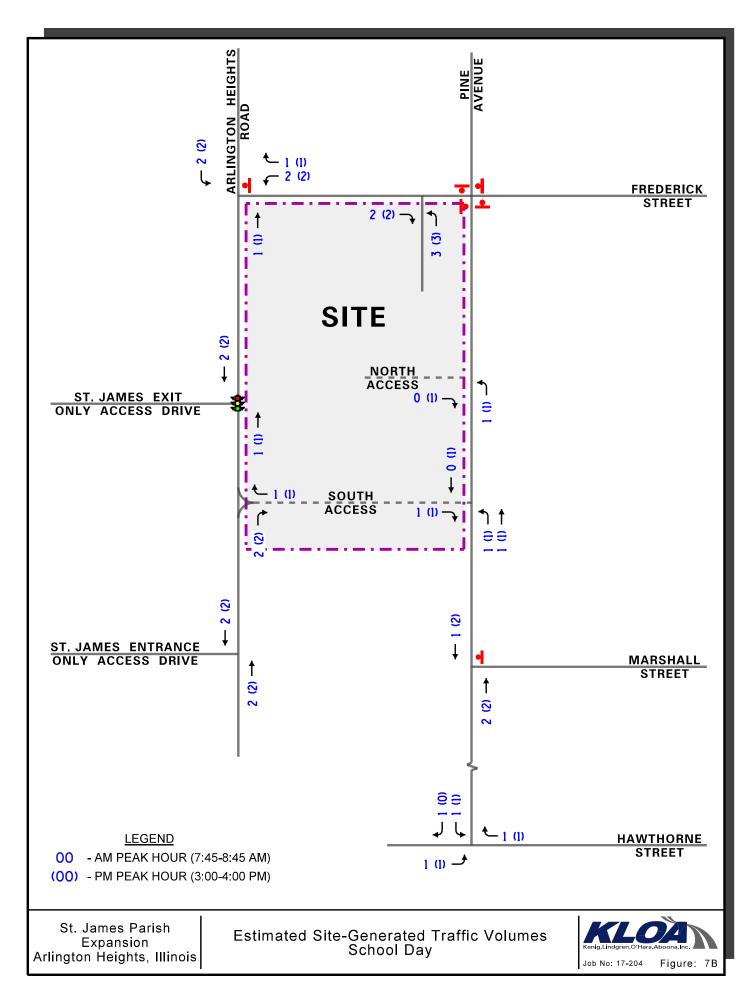
The existing traffic volumes (Figure 4) that do not turn to/from the St. James Parish access drives were increased by a regional growth factor to account for the increase in existing traffic related to regional growth in the area (i.e., not attributable to any particular planned development). Based on the Chicago Metropolitan Agency for Planning (CMAP) Year 2040 population and employment projections, in a letter dated September 20, 2017, the area traffic is projected to increase by approximately one-half percent per year. As such, the existing traffic volumes (that are not generated by St. James Parish) were increased by three percent total to project the Year 2023 background traffic volumes (buildout year plus five-year analysis). This background traffic growth was not applied to the church generated traffic volumes as these values already take into consideration the increased attendance from the expansion and no change in school enrolment or operations is projected to occur. The CMAP 2040 projections letter is included in the Appendix.

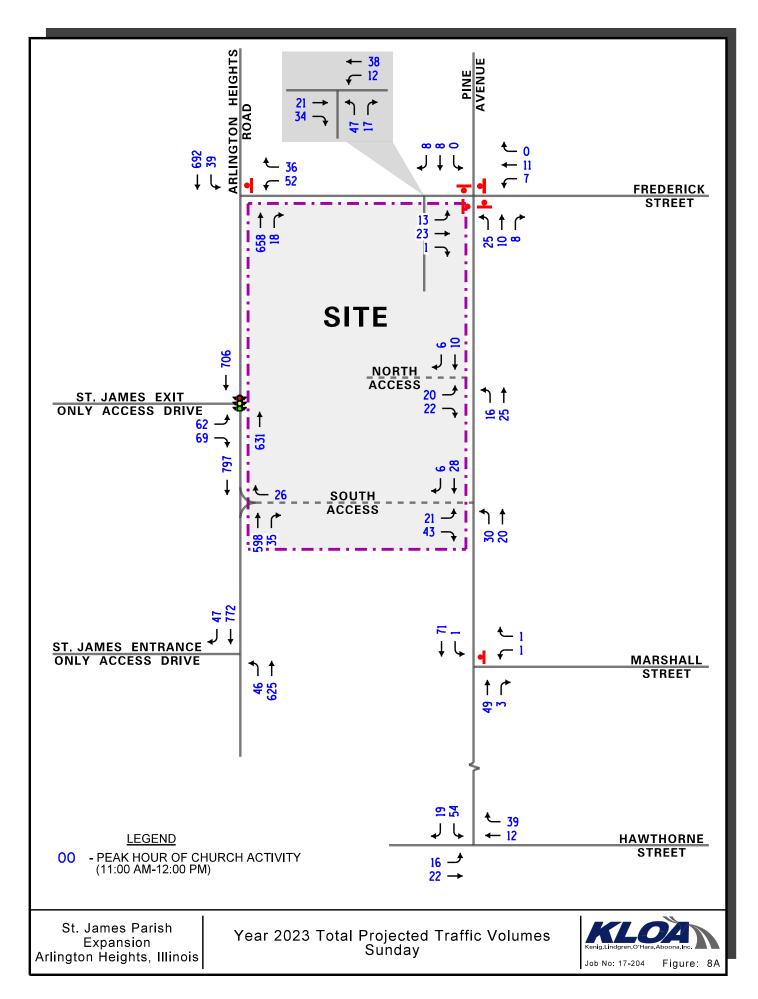
#### **Total Projected Traffic Volumes**

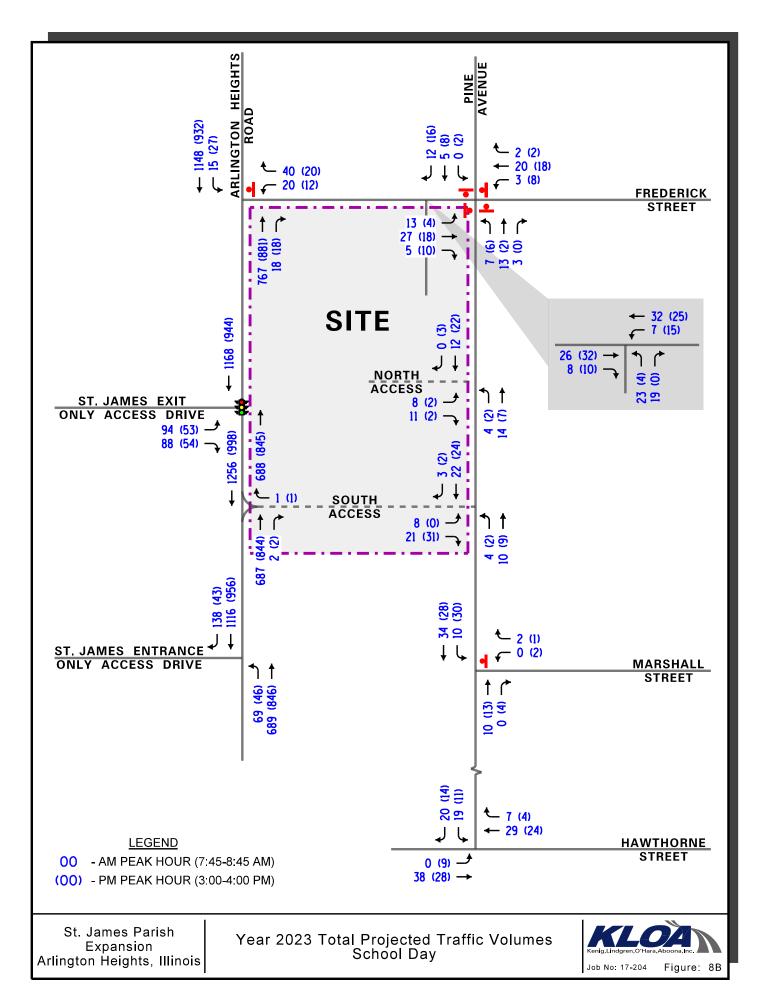
The existing traffic volumes accounting for growth were combined with the peak hour traffic volumes generated by the development (Figure 7A/7B) to determine the Year 2023 total projected traffic volumes. The Year 2023 total projected traffic volumes on Sunday are shown in **Figure 8A** and the Year 2023 total projected traffic volumes on a weekday morning and evening are shown in **Figure 8B**.











# 5. Traffic Analysis and Recommendations

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

#### Traffic Analyses

Roadway and adjacent or nearby intersection analyses were performed for the Sunday morning, weekday morning, and weekday evening peak hours for the existing (Year 2017) and future projected (Year 2023) traffic volumes.

The traffic analyses were performed using the methodologies outlined in the Transportation Research Board's *Highway Capacity Manual (HCM)*, 2010 and analyzed using the Synchro/SimTraffic 9 computer software. The analysis for the traffic-signal controlled intersections were accomplished using field measured cycle lengths and phasings to determine the average overall vehicle delay and levels of service.

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 existing and Year 2023 total projected conditions are presented in **Tables 2** through **4**. A discussion of the intersections follows. Summary sheets for the capacity analyses are included in the Appendix.



Table 2
CAPACITY ANALYSIS RESULTS – SIGNALIZED
ARLINGTON HEIGHTS ROAD WITH ST. JAMES EXIT ONLY ACCESS DRIVE

	Moi	nday rning Hour	Mor	ekday rning Hour	Afte	kday rnoon Hour
Intersection	LOS	Delay	LOS	Delay	LOS	Delay
Year 2017 Existing Conditions						
<ul> <li>Overall</li> </ul>	C	30.6	В	17.2	В	12.3
Eastbound Approach	Е	57.6	D	50.8	D	53.1
Northbound Approach	В	14.8	A	8.4	A	7.2
Southbound Approach	C	21.9	В	11.3	A	7.6
Year 2023 Projected Conditions						
Overall	C	24.9	В	17.2	В	12.3
Eastbound Approach	D	48.9	D	50.8	D	53.7
Northbound Approach	В	14.1	A	8.4	A	7.3
Southbound Approach	В	19.4	В	11.6	A	7.7
LOS = Level of Service Delay is measured in seconds.						



Table 3
CAPACITY ANALYSIS RESULTS – EXISTING CONDITIONS – UNSIGNALIZED

	CITT ANALTSIS RESULTS – EZ	Sui Moi	nday rning	Wee Moi	ekday rning	Wee Afte	rnoon					
	Intersection	LOS	Delay	LOS	Delay	LOS	Delay					
Arlin	Westbound Approach C 19.3 C 22.7 C 19.7 Southbound Left-Turns A 0.4 A 0.5 A 1.1  Iton Heights Road with Entrance Only Access Drive Northbound Left-Turns B 10.5 A 9.0 A 4.2  Irick Street with Pine Avenue  Overall A 7.4 A 7.2 A 7.0 Eastbound Approach A 7.5 A 7.3 A 7.1 Westbound Approach A 7.3 A 7.3 A 7.2 Northbound Approach A 7.5 A 7.3 A 7.3 Southbound Approach A 6.9 A 6.9 A 6.9  Ivenue with Marshall Street  Westbound Approach A 8.8 A 8.8 A 9.6 Southbound Left-Turns A 1.6 A 1.8 A 4.1  Ivenue with Hawthorne Street  Southbound Approach A 9.3 A 9.0 A 8.9 Eastbound Left-Turns A 1.9 A 1.7  Ivenue with Northerly St. James Access Drive  Eastbound Approach A 8.9 A 8.7 A 8.7  Ivenue with Northerly St. James Access Drive  Eastbound Left-Turns A 1.4 A 0.7											
•	Westbound Approach	C	19.3	C	22.7	C	19.7					
•	Southbound Left-Turns	A	0.4	A	0.5	A	1.1					
Arlin	gton Heights Road with Entrance	Only Ac	cess Driv	e								
•	Northbound Left-Turns	В	10.5	A	9.0	A	4.2					
Frede	erick Street with Pine Avenue											
•	Overall	A	7.4	A	7.2	A	7.0					
•	Eastbound Approach	A	7.5	A	7.3	A	7.1					
•	Westbound Approach	A	7.3	A	7.3	A	7.2					
•	Northbound Approach	A	7.5	A	7.3	A	7.3					
•	Southbound Approach	A	6.9	A	6.9	A	6.8					
Pine A	Avenue with Marshall Street											
•	Westbound Approach	A	8.8	A	8.8	A	9.6					
•	Southbound Left-Turns	A	1.6	A	1.8	A	4.1					
Pine A	Avenue with Hawthorne Street											
•	Southbound Approach	A	9.3	A	9.0	A	8.9					
•	Eastbound Left-Turns	A	1.9			A	1.7					
Pine A	Avenue with Northerly St. James	Access D	rive									
•				A	8.7	A	8.7					
•	* *			A	1.4	A	0.7					
Pine A	Avenue with Southerly St. James	Access D	rive									
•	Eastbound Approach	A	9.6	A	8.8	A	9.1					
•	Northbound Left-Turns	A	4.5	A	1.8	A	0.9					
Frede	erick Street with St. James Access	Drive										
•	Northbound Approach	A	8.9	A	9.0	A	9.0					
•	Westbound Left-Turns	A	2.5	A	1.4	A	2.9					
	Level of Service s measured in seconds.											



Table 4
CAPACITY ANALYSIS RESULTS – PROJECTED CONDITIONS – UNSIGNALIZED

		Mo	nday rning Hour	Moi	ekday rning Hour	Afte	ekday rnoon Hour
	Intersection	LOS	Delay	LOS	Delay	LOS	Delay
Arling	gton Heights Road with Frederick	x Street					
•	Westbound Approach	E	48.0	D	25.7	C	21.6
•	Southbound Left-Turns	A	2.0	A	0.6	A	1.3
Arling	gton Heights Road with Entrance	Only Ac	cess Drive	e			
•	Northbound Left-Turns	A	6.1	A	9.3	A	4.3
Frada	rick Street with Pine Avenue						
Freue	Overall	A	7.7	A	7.2	A	7.0
•	Eastbound Approach	A	7.9	A	7.3	A	7.1
•	Westbound Approach	A	7.6	A	7.3	A	7.2
•	Northbound Approach	A	7.9	A	7.3	A	7.3
•	Southbound Approach	A	7.2	A	6.9	A	6.8
Pine A	Avenue with Marshall Street						
•	Westbound Approach	A	9.9	A	8.9	A	9.7
•	Southbound Left-Turns	A	0.1	A	1.7	A	4.0
	Avenue with Hawthorne Street	D	10.7		0.1	<b>A</b>	0.0
•	Southbound Approach	В	10.5	A	9.1	A	8.9
•	Eastbound Left-Turns	A	3.3			A	1.8
Pine A	Avenue with Northerly St. James	Access D	rive				
•	Eastbound Approach	A	9.8	A	8.7	A	8.7
•	Northbound Left-Turns	A	3.0	A	1.6	A	1.7
Pine A	Avenue with Southerly St. James	Access Di	rive				
•	Eastbound Approach	В	11.2	A	8.9	A	9.2
•	Northbound Left-Turns	A	4.8	A	2.1	A	1.4
Frede	rick Street with St. James Access	Drive					
•	Northbound Approach	A	10.8	A	9.0	A	9.1
•	Westbound Left-Turns	A	1.9	A	1.4	A	2.8
Arline	gton Heights Road with Proposed	Right-In	/Right-O	ut Acces	s Drive		
•	Westbound Approach	B	14.7	B	10.8	В	11.6
	Level of Service s measured in seconds.						



#### Discussion and Recommendations

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

#### Intersection Operations on a Typical Sunday

The results of the capacity analysis indicate that on Sunday, the signalized intersection of Arlington Heights Road with the exit only access drive overall is projected to continue operating at existing level of service (LOS) C with a decrease in delay of approximately six seconds. Additionally, all of the approaches are projected to operate at LOS D or better with no increase in delay.

The westbound Frederick Street approach at Arlington Heights currently operates at LOS C during and is projected to operate at LOS E with increases in delay of approximately 29 seconds and projected 95<sup>th</sup> percentile queues of three to four vehicles. Southbound left-turns form Arlington Heights Road onto Frederick Street are projected to continue operating at LOS A with increases in delay of approximately two seconds and 95<sup>th</sup> percentile queues of one to two vehicles.

Northbound left-turn movements from Arlington Heights Road onto the St. James entrance only access drive are projected to continue operating at LOS A with 95<sup>th</sup> percentile queues of one to two vehicles.

All of the unsignalized intersections along Frederick Street and Pine Avenue are generally projected to continue operate at LOS B or better with increases in delay of less than two seconds. As such, the proposed church expansion and the relocation of all services to the east campus will have a limited impact on the operations of the study area intersections and no roadway or traffic control improvements will be required.

#### *Intersection Operations on a Typical School Day*

As previously indicated, while the majority of new trips will occur on Sundays, in order to provide conservative analyses, weekday morning and afternoon trips were also estimated for the church expansion based on ITE's trip rates. The trips rates resulted projection of 11 total trips during the weekday morning peak hour and 12 total trips during the weekday afternoon peak hour. The results of the capacity analyses indicated that all of the study area intersections are projected to continue operating at existing level of service with increases in delay of less than one second with the exception of the westbound approach of Frederick Street at Arlington Heights Road. This approach is projected to operate at LOS D during the weekday morning peak hour and is projected to continue operating at LOS C during the weekday afternoon peak hour with increases in delay three and two seconds, respectively. It should be noted that this increase in delay is attributed to the three percent background growth as the proposed expansion is projected to only increase the total traffic through this intersection by less than one-half percent. As such, the proposed church expansion will have a limited impact on the operations of the study area intersections on a typical school day and no roadway or traffic control improvements will be required.



#### Arlington Heights Road with Proposed Right-In/Right-Out Access Drive

The results of the capacity analysis indicate that the proposed right-in/right-out access drive is projected to operate at LOS B during the Sunday morning, weekday morning and weekday afternoon peak hours. The provision of this access drive will allow for vehicles to access the church parking lot without having to utilize the local roadway system. When the projected traffic volumes are compared to the turn lane warrant guidelines published in Chapter 36 of the IDOT Bureau of Design and Environment, an exclusive northbound right-turn lane serving this access drive will not be warranted during either peak hour. This access drive should be monitored in the future to determine if cut-through traffic occurs between Arlington Heights Road and Pine Avenue and if necessary, barricades could be used to block the southernmost access drive on Pine Avenue during the week (Monday through Friday) to prohibit movements to/from this access drive when vehicle traffic utilizing the church is minimal.



# 6. Parking Evaluation

As part of the proposed church expansion the existing parking lot serving the church building will also be expanded to provide 49 additional parking spaces for a total of 185 parking spaces combined with the 149 parking spaces provided on the school site, the campus will provide a total of 334 parking spaces.

#### Parking Occupancy Surveys

In order to determine the adequacy of the existing and proposed parking supply, parking occupancy surveys were conducted on Sunday, August 27, 2017 and on Sunday September 3, 2017. These surveys were conducted in half-hour intervals from 8:00 A.M. to 11:30 A.M. to determine the parking demand during each of the Sunday morning services. Additionally, the church parking lot on the east side of Arlington Heights Road and the parish center parking lot on the west side of Arlington Heights Road were counted separately and the surveys included the following on-street parking locations:

- Arlington Heights Road between Frederick Street and Hawthorne Street.
- Frederick Street between Arlington Heights Road and Haddow Avenue.
- Pine Street between Oakton Street and Hawthorne Street.
- Marshall Street between Pine Avenue and Haddow Avenue.
- Evergreen Avenue north of the St. James Parish Center.
- Evergreen Avenue south of the St. James Parish Center.

It should be noted that parking is permitted on Arlington Heights Road between Frederick Street and Hawthorne Avenue during Sunday's services. Furthermore, parking is prohibited at the following locations:

- The east side of Pine Avenue between Marshall Street and Frederick Street at all times.
- The east side of Evergreen Avenue south of the St. James Parish Center.
- The west side of Evergreen Avenue north of the St. James Parish Center.
- The south side of Frederick Street between Pine Avenue and Belmont Avenue on Sunday's between 5:00 A.M. and 2:00 P.M.

**Tables 5** and **6** summarize the results of the parking occupancy surveys on August 27<sup>th</sup> and September 3<sup>rd</sup>, respectively.



Table 5
PARKING OCCUPANCY SURVEY RESULTS – SUNDAY, AUGUST 27, 2017

Time	St. James Church Parking Lot (East Side)	St. James Parish Center Parking Lot (West Side)	Arlington Heights Road	Frederick Street	Pine Avenue	Marshall Street	Evergreen Avenue	Total Off Street Parking	Total On Street Parking	Grand Total
8:00 AM	42	2	2	2	4	1	1	44	10	54
8:30 AM	133	2	23	14	31	1	1	135	70	205
9:00 AM	106	9	23	14	28	2	1	115	68	183
9:30 AM	14	38	2	1	2	2	5	52	12	64
10:00 AM	82	171	54	2	2	2	34	253	94	347
10:30 AM	92	171	54	2	2	2	36	263	96	359
11:00 AM	18	132	3	2	2	2	27	150	36	186
11:30 AM	26	118	19	2	2	2	12	144	37	181
St. James Pa	arish Center Parking	g Inventory – 13	6 spaces (ea	st side), 149	spaces (w	vest side) =	285 Parking	Spaces		

Table 6
PARKING OCCUPANCY SURVEY RESULTS – SUNDAY, SEPTEMBER 3, 2017

Time	St. James Church Parking Lot (East Side)	St. James Parish Center Parking Lot (West Side)	Arlington Heights Road	Frederick Street	Pine Avenue	Marshall Street	Evergreen Avenue	Total Off Street Parking	Total On Street Parking	Grand Total
8:00 AM	47	3	4	2	3	0	2	50	11	61
8:30 AM	132	5	21	15	20	0	3	137	59	196
9:00 AM	123	12	24	15	20	0	3	135	62	197
9:30 AM	12	42	4	1	2	0	5	54	12	66
10:00 AM	54	147	42	1	2	0	18	201	63	264
10:30 AM	64	147	45	1	3	0	17	211	66	277
11:00 AM	21	34	2	1	2	0	5	55	10	65
11:30 AM	37	108	10	1	4	0	14	145	29	174

St. James Parish Center Parking Inventory – 136 spaces (east side), 149 spaces (west side) = 285 Parking Spaces



As shown in Tables 5 and 6, the results of the parking occupancy surveys indicated that the peak parking demand on August 27<sup>th</sup> occurred at 10:30 A.M. with a parking demand of 359 spaces. At this time, the west parking lot was 115 percent occupied (with cars parked along the south side of the entrance only access drive which is 20-feet wide), the east parking lot was 68 percent occupied and 96 vehicles were parking on-street. Of the vehicle parked on-street, 54 vehicles were parked on Arlington Heights Road and 36 vehicles were parked on Evergreen Avenue.

The peak parking demand on September 3<sup>rd</sup> occurred at 10:30 A.M. with a parking demand of 277 spaces of which 211 vehicles were parked within the off-street parking lots and 66 were parked on-street. At this time the west parking lot was 98 percent occupied, the east parking lot was 47 percent occupied and 66 vehicles were parked on-street. Of the vehicles parked on-street, 45 vehicles were parked on Arlington Heights Road and 17 vehicles were parked on Evergreen Avenue.

Tables 5 and 6 also indicate that during the Sunday morning services that are held at the church (east side) any overflow parking was accommodated by the on-street parking locations along Arlington Heights Road, Frederick Street and Pine Avenue with few vehicles utilizing the Parish Center parking lot during these services with a range of 59 to 70 vehicles parked on the streets.

#### **Parking Evaluation**

As previously indicated, as part of the church expansion, all services will be held in the expanded church building and no services will be held in the parish center/school building. Additionally, the expanded church will be handicap accessible which will result in a more evenly distributed attendance among the four Sunday services. The parking projected to be generated by the proposed church expansion, which will result in an increase of 237 seats (assuming 18-inches per person), was determined based on the following:

- Village of Arlington Heights Code: Parking for churches is required to be provided at one space for every five seats. This results in a projected parking demand of 47 spaces.
- The ITE *Parking Generation Manual* 9<sup>th</sup> Edition: The average parking demand for churches on a Sunday is 0.2 spaces per seat (one space for every five seats) spaces per seat resulting in a projected average parking demand of 47 spaces.

Combining the existing peak parking demand of 359 parking spaces with the projected parking demand of 47 parking spaces results in a total projected parking demand of 406 parking spaces.



As previously indicted, the proposed church expansion will result in a total of 334 on-site parking spaces. Furthermore, the south side of Frederick Street between Arlington Heights Road and Pine Avenue can accommodate five on-street parking spaces and the west side of Pine Avenue along the St. James frontage can accommodate approximately 20 on-street parking spaces. Additionally, on-street parking on the west side of Arlington Heights Road will be maintained on Sundays providing approximately 35 parking spaces. This results in a total of 394 total parking spaces. With a projected parking demand of 406 parking spaces on a typical Sunday, a deficit of approximately 12 spaces will result which can be accommodated by the available parking spaces on the west side of Pine Avenue south of the church. **Figure 9** illustrates the on-site parking lots and the on-street parking locations which can accommodate the following:

West Campus: 149 SpacesEast Campus: 185 Spaces

• Frederick Street (south side along church frontage): 5 Spaces

• Frederick Street (north side): 5 spaces

• Pine Avenue (west side along church frontage): 20 Spaces

• Pine Avenue (west side south of church): 20 Spaces

Arlington Heights Road (west side):70 spaces

• Total: 454 spaces

However, in conjunction with all the services occurring within the church building, it is recommended that parishioners be encouraged to utilize both parking lots on campus before utilizing on-street parking. As it currently occurs, parishioners that park on the west side of Arlington Heights Road will be able to utilize the signalized intersection at the exit only access drive, which provides pedestrian countdown timers and a 15-foot wide high visibility crosswalk, to safely cross Arlington Heights Road.

Assuming a 15 percent higher parking demand on holidays, the projected parking demand increases to 467 spaces resulting in a parking deficit of 73 parking spaces. However, this parking demand is only projected to occur twice per year and this projected parking demand is conservative as it does not take into consideration the increase in vehicle occupancy that occurs on holidays.

As can be seen from the results of the parking evaluation, the projected off-street parking supply of 334 parking spaces combined with the on-street parking that can be accommodated on Frederick Street, Pine Avenue and Arlington Heights Road will be adequate in accommodating the projected parking demand on a typical Sunday generated by St. James Parish. It should be noted that this projected parking demand is conservative as it does not take into consideration that the proposed expansion will increase accessibility and help distribute service attendance and reduce the peak parking demand experienced at the 10:00 A.M. service.





**St. James Parish Parking Locations** 

Figure 9



## 7. Conclusion

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

- The proposed expansion generated traffic will have a limited impact on the operations of the study area intersections and no roadway or traffic control improvements will be required.
- The proposed expansion will not impact the existing pick-up/drop-off operations or access for St. James School.
- The existing access system and proposed right-in/right-out access drive serving the church and parish center will be adequate in accommodating the traffic projected to be generated by the buildout of the church expansion and will ensure that efficient and flexible access is provided.
- The proposed right-in/right-out access drive off Arlington Heights Road will replace an existing full movement curb cut at this location.
- If determined in the future that cut-through traffic utilizes the proposed right-in/right-out between Arlington Heights Road and Pine Avenue, consideration should be given to barricading the southernmost access drive off Pine Avenue during the week (Monday through Friday) when vehicle traffic utilizing the church is minimal.
- The provision of 50 additional parking spaces will be adequate in accommodating the projected parking demand generated by the expansion.
- The parking demand will continue to be accommodated by the two off-street parking lots serving the campus with any overflow parking accommodated by the on-street parking locations along Arlington Heights Road (west side only), Frederick Street and Pine Avenue.
- As it currently occurs, parishioners that park on the west side of Arlington Heights Road will be able to utilize the signalized intersection at the exit only access drive, which provides pedestrian countdown timers and a 15-foot wide high visibility crosswalk, to safely cross Arlington Heights Road.



# Appendix

Traffic Count Summary Sheets
Preliminary Site Plan
CMAP 2040 Projections Letter
Level of Service Criteria
Capacity Analysis Summary Sheets



**Traffic Count Summary Sheets** 





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

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

Count Name: Arlington Heights School with Signalized Access Drive Site Code: Start Date: 08/27/2017 Page No: 1

#### Turning Movement Data

		Arli	ington Heights Ro	oad			-	<b>/ement L</b> tbound Access D		[		Arli	ngton Heights R	oad		
- · · -			Eastbound					Northbound					Southbound			
Start Time	U-Turn	Left	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	Int. Total
9:00 AM	0	0	0	0	0	0	0	78	1	78	0	90	0	0	90	168
9:15 AM	0	0	2	0	2	0	0	103	3	103	0	136	0	0	136	241
9:30 AM	0	1	0	0	1	0	0	79	11	79	0	132	0	0	132	212
9:45 AM	0	5	. 7	32	12	0	0	91	52	91	0	168	0	0	168	271
Hourly Total	0	6	9	32	15	0	0	351	67	351	0	526	0	0	526	892
10:00 AM	0	4	5	5	9	0	0	103	14	103	0	152	0	1	152	264
10:15 AM	0	2	1	1	3	0	0	114	4	114	0	115	0	1	115	232
10:30 AM	0	1	0	0	. 1	0	0	157	0	157	0	130	0	0	130	288
10:45 AM	0	5	12	15	17	0	0	130	29	130	0	151	0	0	151	298
Hourly Total	0	12	18	21	30	0	0	504	47	504	0	548	0	2	548	1082
11:00 AM	0	75	78	19	153	0	0	156	57	156	0	205	0	0	205	514
11:15 AM	0	1	9	6	10	0	0	139	4	139	0	179	0	0	179	328
11:30 AM	0	2	. 2	9	4	0	0	134	8	134	0	146	. 0	0	146	284
11:45 AM	0	1	1	0	2	0	0	163	1	163	0	177	0	0	177	342
Hourly Total	0	79	90	34	169	0	0	592	70	592	0	707	0	0	707	1468
*** BREAK ***	-	-	<u>-</u>	-	-	-	-		-			-		-	-	-
7:30 AM	0	0	0	0	0	0	0	179	0	179	0	240	0	0	240	419
7:45 AM	0	0	0	0	0	0	0	162	3	162	1	291	0	0	292	454
Hourly Total	0	0	. 0	0	0	0	0	341	3	341	1	531	0	0	532	873
8:00 AM	0	5	2	0	. 7	0	0	139	11	139	0	256	0	0	256	402
8:15 AM	0	52	31	0	83	0	0	169	64	169	0	339	0	0	339	591
8:30 AM	0	37	55	2	92	0	0	180	7	180	0	246	0	0	246	518
8:45 AM	0	0	1	0	. 1	0	0	167	2	167	0	240	0	0	240	408
Hourly Total	0	94	89	2	183	0	0	655	84	655	0	1081	0	0	1081	1919
9:00 AM	0	2	2	3	4	0	0	154	2	154	0	230	0	0	230	388
9:15 AM	0	2	1	0	3	1	0	157	3	158	0	175	0	0	175	336
*** BREAK ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hourly Total	0	4	3	3	. 7	1	0	311	5	312	0	405	0	0	405	724
2:30 PM	0	0	1	0	. 1	0	0	178	0	178	0	200	0	0	200	379
2:45 PM	0	3	2	0	5	0	0	205	0	205	0	203	0	0	203	413
Hourly Total	0	3	3	0	6	0	0	383	0	383	0	403	0	0	403	792
3:00 PM	0	1	4	0	5	0	0	183	4	183	0	228	0	0	228	416
3:15 PM	0	8	3	0	11	0	0	199	12	199	0	245	0	0	245	455
3:30 PM	0	24	33	0	57	0	0	212	136	212	0	230	0	0	230	499
3:45 PM	0	20	14	0	34	0	0	225	5	225	0	212	0	0	212	471
Hourly Total	0	53	54	0	107	0	0	819	157	819	0	915	0	0	915	1841
4:00 PM	0	3	5	0	8	0	0	225	5	225	0	236	0	0	236	469
4:15 PM	0	1	. 5	0	6	0	0	218	1	218	0	239	. 0	0	239	463

Grand Total	0	255	276	92	531	1	0	4399	439	4400	1	5591	0	2	5592	10523
Approach %	0.0	48.0	52.0	-	-	0.0	0.0	100.0	-	-	0.0	100.0	0.0	-	-	-
Total %	0.0	2.4	2.6	-	5.0	0.0	0.0	41.8	-	41.8	0.0	53.1	0.0	-	53.1	-
Lights	0	255	276	-	531	1	0	4270	-	4271	1	5426	0	-	5427	10229
% Lights	-	100.0	100.0	-	100.0	100.0	-	97.1	-	97.1	100.0	97.0	-	-	97.0	97.2
Buses	0	0	0	-	0	0	0	37	-	37	0	38	0	-	38	75
% Buses	-	0.0	0.0	-	0.0	0.0	-	0.8	-	0.8	0.0	0.7	-	-	0.7	0.7
Single-Unit Trucks	0	0	0	-	0	0	0	85	-	85	0	107	0	-	107	192
% Single-Unit Trucks	-	0.0	0.0	-	0.0	0.0	-	1.9	-	1.9	0.0	1.9	-	-	1.9	1.8
Articulated Trucks	0	0	0	-	0	0	0	7	-	7	0	20	0	-	20	27
% Articulated Trucks	-	0.0	0.0	-	0.0	0.0	-	0.2	-	0.2	0.0	0.4	-	-	0.4	0.3
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	-	_	-	92	-	-	-	-	439	-	-	-	-	2	-	-
% Pedestrians	-	_	_	100.0	-	-	-	_	100.0	-	-	_	_	100.0	-	_



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

Count Name: Arlington Heights School with Signalized Access Drive Site Code: Start Date: 08/27/2017 Page No: 3

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		Arl	ngton Heights R	load			Ou	tbound Access D	rive			Arl	ngton Heights R	oad		
Start Time			Eastbound					Northbound					Southbound			
Start Time	U-Turn	Left	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	Int. Total
11:00 AM	0	75	78	19	153	0	0	156	57	156	0	205	0	0	205	514
11:15 AM	0	1	9	6	10	0	0	139	4	139	0	179	0	0	179	328
11:30 AM	0	2	2	9	4	0	0	134	8	134	0	146	0	0	146	284
11:45 AM	0	1	1	0	2	0	0	163	1	163	0	177	0	0	177	342
Total	0	79	90	34	169	0	0	592	70	592	0	707	0	0	707	1468
Approach %	0.0	46.7	53.3	-	-	0.0	0.0	100.0	-	-	0.0	100.0	0.0	-	-	-
Total %	0.0	5.4	6.1	-	11.5	0.0	0.0	40.3	-	40.3	0.0	48.2	0.0	-	48.2	-
PHF	0.000	0.263	0.288	-	0.276	0.000	0.000	0.908	-	0.908	0.000	0.862	0.000	-	0.862	0.714
Lights	0	79	90	-	169	0	0	590	-	590	0	707	0	-	707	1466
% Lights	-	100.0	100.0	-	100.0	-	-	99.7	-	99.7	-	100.0	-	-	100.0	99.9
Buses	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Buses	-	0.0	0.0	-	0.0	-	-	0.0	-	0.0	-	0.0	-	-	0.0	0.0
Single-Unit Trucks	0	0	0	-	0	0	0	2	-	2	0	0	0	-	0	2
% Single-Unit Trucks	-	0.0	0.0	-	0.0	-	-	0.3	-	0.3	-	0.0	-	-	0.0	0.1
Articulated Trucks	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Articulated Trucks	-	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
% Bicycles on Road	-	0.0	0.0	-	0.0	-	-	0.0	-	0.0	-	0.0	-	-	0.0	0.0
Pedestrians	-	-	-	34	-	-	-	-	70	-	-	-	-	0	-	-
% Pedestrians	-	-	-	100.0	-	-	-	-	100.0	-	_	-	-	-	-	-



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

Count Name: Arlington Heights School with Signalized Access Drive Site Code: Start Date: 08/27/2017 Page No: 4

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		Arl	ington Heights R	oad			Out	tbound Access D	rive			Arl	ington Heights R	oad		
Otant Time			Eastbound					Northbound					Southbound			
Start Time	U-Turn	Left	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	Int. Total
7:45 AM	0	0	0	0	0	0	0	162	3	162	1	291	0	0	292	454
8:00 AM	0	5	2	0	7	0	0	139	11	139	0	256	0	0	256	402
8:15 AM	0	52	31	0	83	0	0	169	64	169	0	339	0	0	339	591
8:30 AM	0	37	55	2	92	0	0	180	7	180	0	246	0	0	246	518
Total	0	94	88	2	182	0	0	650	85	650	1	1132	0	0	1133	1965
Approach %	0.0	51.6	48.4	-	-	0.0	0.0	100.0	-	-	0.1	99.9	0.0	-	-	-
Total %	0.0	4.8	4.5	-	9.3	0.0	0.0	33.1	-	33.1	0.1	57.6	0.0	-	57.7	-
PHF	0.000	0.452	0.400	-	0.495	0.000	0.000	0.903	-	0.903	0.250	0.835	0.000	-	0.836	0.831
Lights	0	94	88	-	182	0	0	614	-	614	1	1085	0	-	1086	1882
% Lights	-	100.0	100.0	-	100.0	-	-	94.5	-	94.5	100.0	95.8	-	-	95.9	95.8
Buses	0	0	0	-	0	0	0	8	-	8	0	9	0	-	9	17
% Buses	-	0.0	0.0	-	0.0	-	-	1.2	-	1.2	0.0	0.8	-	-	0.8	0.9
Single-Unit Trucks	0	0	0	_	0	0	0	26	_	26	0	32	0	_	32	58
% Single-Unit Trucks	-	0.0	0.0	-	0.0	-	-	4.0	-	4.0	0.0	2.8	-	-	2.8	3.0
Articulated Trucks	0	0	0	-	0	0	0	2	-	2	0	6	0	-	6	8
% Articulated Trucks	-	0.0	0.0	-	0.0	-	-	0.3	-	0.3	0.0	0.5	-	-	0.5	0.4
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
Pedestrians	-	-	-	2		-	-	-	85	-	-	-	-	0	-	-
% Pedestrians	-	-	-	100.0	-	-	-	-	100.0	-	-	-	-	-	-	-



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

Count Name: Arlington Heights School with Signalized Access Drive Site Code: Start Date: 08/27/2017 Page No: 5

					runni	y woven	HEIR FE	ak Houi	Dala (S.	OU FIVI)						
		Arl	ington Heights R	oad			Ou	tbound Access D	rive			Arli	ngton Heights R	oad		
Start Time			Eastbound					Northbound					Southbound			
Start Time	U-Turn	Left	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	Int. Total
3:00 PM	0	1	4	0	5	0	0	183	4	183	0	228	0	0	228	416
3:15 PM	0	8	3	0	11	0	0	199	12	199	0	245	0	0	245	455
3:30 PM	0	24	33	0	57	0	0	212	136	212	0	230	0	0	230	499
3:45 PM	0	20	14	0	34	0	0	225	5	225	0	212	0	0	212	471
Total	0	53	54	0	107	0	0	819	157	819	0	915	0	0	915	1841
Approach %	0.0	49.5	50.5	-	-	0.0	0.0	100.0	-	-	0.0	100.0	0.0	-	-	-
Total %	0.0	2.9	2.9	-	5.8	0.0	0.0	44.5	-	44.5	0.0	49.7	0.0	-	49.7	-
PHF	0.000	0.552	0.409	-	0.469	0.000	0.000	0.910	-	0.910	0.000	0.934	0.000	-	0.934	0.922
Lights	0	53	54	-	107	0	0	799	-	799	0	876	0	-	876	1782
% Lights	-	100.0	100.0	-	100.0	-	-	97.6	-	97.6	-	95.7	-	-	95.7	96.8
Buses	0	0	0	-	0	0	0	8	-	8	0	13	0	-	13	21
% Buses	-	0.0	0.0	-	0.0	-	-	1.0	-	1.0	-	1.4	-	-	1.4	1.1
Single-Unit Trucks	0	0	0	-	0	0	0	12	-	12	0	20	0	-	20	32
% Single-Unit Trucks	-	0.0	0.0	-	0.0	-	-	1.5	-	1.5	-	2.2	-	-	2.2	1.7
Articulated Trucks	0	0	0	-	0	0	0	0	-	0	0	6	0	-	6	6
% Articulated Trucks	-	0.0	0.0	-	0.0	-	-	0.0	-	0.0	-	0.7	-	-	0.7	0.3
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
Pedestrians	-	-	-	0	-	-	-	-	157	-	-	-	-	0	-	-
% Pedestrians	-	-	-	-	-	-	-	-	100.0	-	-	-	-	-	-	-



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

Count Name: Arlington Heights Road with Frederick Street Site Code: Start Date: 08/27/2017 Page No: 1

	1					ı Tüll	_	vennem i			Ī				1	ı
			Frederick Street	t			Arl	ington Heights R	oad			Arl	ington Heights R	oad		
Start Time			Westbound					Northbound					Southbound			
-	U-Turn	Left	Right	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	Int. Total
9:00 AM	0	1	. 0	. 0	1	0	77	. 1	. 0	78	0	0	91	. 0	91	170
9:15 AM	0	6	23	3	29	0	106	5	2	111	0	1	123	0	124	264
9:30 AM	0	4	10	0	14	0	86	0	0	86	0	3	127	0	130	230
9:45 AM	0	5	3	. 3	. 8	0	87	. 6	. 0	93	0	9	166	0	175	276
Hourly Total	0	16	36	6	52	0	356	12	2	368	0	13	507	0	520	940
10:00 AM	0	0	4	0	4	0	103	3	0	106	0	5	142	0	147	257
10:15 AM	0	1	1	. 0	2	0	103	. 1	. 0	104	0	6	123	0	129	235
10:30 AM	0	1	1	0	2	0	145	3	0	148	0	2	127	0	129	279
10:45 AM	0	2	5	1	7	0	151	5	0	156	0	2	149	0	151	314
Hourly Total	0	4	11	. 1	15	0	502	12	0	514	0	15	541	0	556	1085
11:00 AM	0	2	6	0		0	215	15	0	230	0	2	196	0	198	436
11:15 AM	0	3	2	0	5	0	126	2	0	128	0	2	176	0	178	311
11:30 AM	0	3	3	0	6	0	133	2	. 0	135	0	2	149	0	151	292
11:45 AM	0	1	1	0	2	0	159	3	0	162	0	1	170	0	171	335
Hourly Total	0	9	12	0	21	0	633	22	0	655	0	7	691	0	698	1374
*** BREAK ***	-	-	-	_		-		-	-		-	-		-	-	-
7:30 AM	0	1	5	0	6	0	157	2	0	159	0	7	253	0	260	425
7:45 AM	0	3	9	0	12	0	171	2	0	173	0	4	288	0	292	477
Hourly Total	0	4	14	0	18	0	328	4	0	332	0	11	541	0	552	902
8:00 AM	0	2	21	1	23	0	150	0	0	150	0	5	253	0	258	431
8:15 AM	0	7	6	0	13	0	212	9	0	221	0	2	326	0	328	562
8:30 AM	0	5	2	0	7	0	211	6	0	217	0	2	236	0	238	462
8:45 AM	0	3	4	0	7	0	161	0	0	161	0	1	242	0	243	411
Hourly Total	0	17	33	1	50	0	734	15	0	749	0	10	1057	0	1067	1866
9:00 AM	0	4	2	0	6	0	160	0	0	160	0	2	232	0	234	400
9:15 AM	0	1	2	0	3	0	163	3	0	166	0	0	182	0	182	351
*** BREAK ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hourly Total	0	5	4	0	9	0	323	3	0	326	0	2	414	0	416	751
2:30 PM	0	1	4	0	5	0	180	3	0	183	0	0	182	0	182	370
2:45 PM	0	1	4	0	5	0	195	2	0	197	0	1	205	0	206	408
Hourly Total	0	2	8	0	10	0	375	5	0	380	0	1	387	0	388	778
3:00 PM	0	5	3	0	8	0	185	2	0	187	0	5	218	0	223	418
3:15 PM	0	1	1	0	2	0	189	6	0	195	0	8	237	0	245	442
3:30 PM	0	3	6	23	9	0	228	5	0	233	0	5	224	0	229	471
3:45 PM	0	1	8	1	9	0	237	4	0	241	0	6	222	0	228	478
Hourly Total	0	10	18	24	28	0	839	17	0	856	0	24	901	0	925	1809
4:00 PM	0	0	2	0	2	0	234	3	0	237	0	1	231	0	232	471
4:15 PM	0	1	3	0	4	0	220	0	0	220	0	1	237	0	238	462
2.10 T W													_0,		_55	.52

Grand Total	0	68	141	32	209	0	4544	93	2	4637	0	85	5507	0	5592	10438
Approach %	0.0	32.5	67.5	-	-	0.0	98.0	2.0	-	-	0.0	1.5	98.5	-	-	-
Total %	0.0	0.7	1.4	-	2.0	0.0	43.5	0.9	-	44.4	0.0	0.8	52.8	-	53.6	-
Lights	0	67	139	-	206	0	4410	93	-	4503	0	83	5344	-	5427	10136
% Lights	-	98.5	98.6	-	98.6	-	97.1	100.0	-	97.1	-	97.6	97.0	-	97.0	97.1
Buses	0	0	1	-	1	0	40	0	-	40	0	2	39	-	41	82
% Buses	-	0.0	0.7	-	0.5	-	0.9	0.0	-	0.9	-	2.4	0.7	-	0.7	0.8
Single-Unit Trucks	0	1	1	-	2	0	86	0	-	86	0	0	102	-	102	190
% Single-Unit Trucks	-	1.5	0.7	-	1.0	-	1.9	0.0	-	1.9	-	0.0	1.9	-	1.8	1.8
Articulated Trucks	0	0	0	-	0	0	8	0	-	8	0	0	21	-	21	29
% Articulated Trucks	-	0.0	0.0	-	0.0	-	0.2	0.0	-	0.2	-	0.0	0.4	-	0.4	0.3
Bicycles on Road	0	0	0	-	0	0	0	0	-	0	0	0	1	-	1	1
% Bicycles on Road	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	0.0
Pedestrians	-	-	-	32	-	-	-	-	2	-	-	-	-	0	-	-
% Pedestrians	-	-	-	100.0	-	-	-	-	100.0	-	-	_	_	-	-	-



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

Count Name: Arlington Heights Road with Frederick Street Site Code: Start Date: 08/27/2017 Page No: 3

					i unining	INIONCILI	ciil ca	K I IOUI L	λαια ( ι ι	.oo Aivij						
			Frederick Street	t			Arli	ington Heights R	oad			Arli	ngton Heights R	oad		
Ot and Time a			Westbound					Northbound					Southbound			
Start Time	U-Turn	Left	Right	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	Int. Total
11:00 AM	0	2	6	0	8	0	215	15	0	230	0	2	196	0	198	436
11:15 AM	0	3	2	0	5	0	126	2	0	128	0	2	176	0	178	311
11:30 AM	0	3	3	0	6	0	133	2	0	135	0	2	149	0	151	292
11:45 AM	0	1	1	0	2	0	159	3	0	162	0	1	170	0	171	335
Total	0	9	12	0	21	0	633	22	0	655	0	7	691	0	698	1374
Approach %	0.0	42.9	57.1	-	-	0.0	96.6	3.4	-	-	0.0	1.0	99.0	-	-	-
Total %	0.0	0.7	0.9	_	1.5	0.0	46.1	1.6	-	47.7	0.0	0.5	50.3	-	50.8	-
PHF	0.000	0.750	0.500	-	0.656	0.000	0.736	0.367	-	0.712	0.000	0.875	0.881	-	0.881	0.788
Lights	0	9	12	-	21	0	629	22	-	651	0	7	691	-	698	1370
% Lights	-	100.0	100.0	-	100.0	-	99.4	100.0	-	99.4	-	100.0	100.0	-	100.0	99.7
Buses	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Buses	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	0.0
Single-Unit Trucks	0	0	0	-	0	0	4	0	-	4	0	0	0	-	0	4
% Single-Unit Trucks	-	0.0	0.0	-	0.0	-	0.6	0.0	-	0.6	-	0.0	0.0	-	0.0	0.3
Articulated Trucks	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Articulated Trucks	-	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
% 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		-	-	_	0	_	-
% Pedestrians	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Count Name: Arlington Heights Road with Frederick Street Site Code: Start Date: 08/27/2017 Page No: 4

					ı umi	y ivioveii		ak i loui l	Dala (1.	-						
			Frederick Street	t			Arl	ington Heights R	oad			Arli	ngton Heights R	oad		
Otant Time			Westbound					Northbound					Southbound			
Start Time	U-Turn	Left	Right	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	Int. Total
7:45 AM	0	3	9	0	12	0	171	2	0	173	0	4	288	0	292	477
8:00 AM	0	2	21	1	23	0	150	0	0	150	0	5	253	0	258	431
8:15 AM	0	7	6	0	13	0	212	9	0	221	0	2	326	0	328	562
8:30 AM	0	5	2	0	7	0	211	6	0	217	0	2	236	0	238	462
Total	0	17	38	1	55	0	744	17	0	761	0	13	1103	0	1116	1932
Approach %	0.0	30.9	69.1	-	-	0.0	97.8	2.2	-	-	0.0	1.2	98.8	-	-	-
Total %	0.0	0.9	2.0	-	2.8	0.0	38.5	0.9	-	39.4	0.0	0.7	57.1	-	57.8	-
PHF	0.000	0.607	0.452	-	0.598	0.000	0.877	0.472	-	0.861	0.000	0.650	0.846	-	0.851	0.859
Lights	0	17	37	-	54	0	707	17	-	724	0	13	1057	-	1070	1848
% Lights	-	100.0	97.4	-	98.2	-	95.0	100.0	-	95.1	-	100.0	95.8	-	95.9	95.7
Buses	0	0	0	-	0	0	9	0	-	9	0	0	9	-	9	18
% Buses	-	0.0	0.0	-	0.0	-	1.2	0.0	-	1.2	-	0.0	8.0	-	0.8	0.9
Single-Unit Trucks	0	0	1	_	1	0	26	0	-	26	0	0	29	_	29	56
% Single-Unit Trucks	-	0.0	2.6	-	1.8	-	3.5	0.0	-	3.4	-	0.0	2.6	-	2.6	2.9
Articulated Trucks	0	0	0	-	0	0	2	0	-	2	0	0	8	-	8	10
% Articulated Trucks	-	0.0	0.0	-	0.0	-	0.3	0.0	-	0.3	-	0.0	0.7	-	0.7	0.5
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	_	-	_	_	0		-	-	-	0	-	-
% Pedestrians	-	-	-	100.0	-	-	-	-	-	-	-	-	-	-	-	-



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

Count Name: Arlington Heights Road with Frederick Street Site Code: Start Date: 08/27/2017 Page No: 5

					runni	y woven	IEIIL FE	ak Houi	Dala (S	.UU FIVI)						
			Frederick Stree	t			Arl	ington Heights R	oad			Arli	ngton Heights R	oad		
Otant Time			Westbound					Northbound					Southbound			
Start Time	U-Turn	Left	Right	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	Int. Total
3:00 PM	0	5	3	0	8	0	185	2	0	187	0	5	218	0	223	418
3:15 PM	0	1	1	0	2	0	189	6	0	195	0	8	237	0	245	442
3:30 PM	0	3	6	23	9	0	228	5	0	233	0	5	224	0	229	471
3:45 PM	0	1	8	1	9	0	237	4	0	241	0	6	222	0	228	478
Total	0	10	18	24	28	0	839	17	0	856	0	24	901	0	925	1809
Approach %	0.0	35.7	64.3	-	-	0.0	98.0	2.0	-	-	0.0	2.6	97.4	-	-	-
Total %	0.0	0.6	1.0	-	1.5	0.0	46.4	0.9	-	47.3	0.0	1.3	49.8	-	51.1	-
PHF	0.000	0.500	0.563	-	0.778	0.000	0.885	0.708	-	0.888	0.000	0.750	0.950	-	0.944	0.946
Lights	0	10	18	-	28	0	816	17	-	833	0	22	865	-	887	1748
% Lights	-	100.0	100.0	-	100.0	-	97.3	100.0	-	97.3	-	91.7	96.0	-	95.9	96.6
Buses	0	0	0	-	0	0	10	0	-	10	0	2	9	-	11	21
% Buses	-	0.0	0.0	-	0.0	-	1.2	0.0	-	1.2	1	8.3	1.0	-	1.2	1.2
Single-Unit Trucks	0	0	0	-	0	0	13	0	-	13	0	0	22	-	22	35
% Single-Unit Trucks	-	0.0	0.0	-	0.0	-	1.5	0.0	-	1.5	•	0.0	2.4	-	2.4	1.9
Articulated Trucks	0	0	0	-	0	0	0	0	-	0	0	0	5	-	5	5
% Articulated Trucks	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.0	0.6	-	0.5	0.3
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	1	0.0	0.0	-	0.0	0.0
Pedestrians	-	-	-	24	-	-	-	-	0	-	-	-	-	0	-	-
% Pedestrians	-	-	-	100.0	-	-	-	-	-	-	-	-	-	-	-	-



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

Count Name: Arlington Heights Road with Unsignalized Access Site Code: Start Date: 08/27/2017 Page No: 1

		Ini	bound Access Dr	rive			_	<b>/EITTETTL L</b> ington Heights R				Arl	ington Heights R	oad		
Start Time			Eastbound					Northbound					Southbound			
Start Time	U-Turn	Left	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	Int. Total
9:00 AM	0	0	. 0	2	. 0	0	6	. 77	0	83	0	82	9	0	91	174
9:15 AM	0	0	0	0	0	0	6	95	0	101	0	126	10	0	136	237
9:30 AM	0	0	0	1	0	0	29	82	0	111	0	101	34	0	135	246
9:45 AM	0	0	1	10	1	0	34	95	0	129	0	107	48	4	155	285
Hourly Total	0	0	1	13	1	0	75	349	0	424	0	416	101	4	517	942
10:00 AM	0	0	0	20	0	0	6	106	3	112	0	141	7	0	148	260
10:15 AM	0	0	. 0	. 1	0	0	0	111	. 0	111	0	116	4	. 0	120	231
10:30 AM	0	0	0	1	0	0	1	142	0	143	0	134	0	0	134	277
10:45 AM	0	0	0	11	0	0	1	140	0	141	0	161	4	4	165	306
Hourly Total	0	0	0	33	. 0	0	8	499	3	507	0	552	15	4	567	1074
11:00 AM	0	0	0	21	0	0	22	155	0	177	0	262	17	0	279	456
11:15 AM	0	0	0	1	0	0	32	135	0	167	0	151	33	0	184	351
11:30 AM	0	0	. 0	4	. 0	0	14	131	0	145	0	142	13	0	155	300
11:45 AM	0	0	0	0	0	0	3	157	0	160	0	174	2	0	176	336
Hourly Total	0	0	0	26	0	0	71	578	0	649	0	729	65	0	794	1443
*** BREAK ***	-	-	-	_		-	-		-			-		-	-	-
7:30 AM	0	0	0	0	0	0	7	170	0	177	0	248	3	0	251	428
7:45 AM	0	0	0	0	0	0	8	158	0	166	0	283	6	0	289	455
Hourly Total	0	0	0	0	0	0	15	328	0	343	0	531	9	0	540	883
8:00 AM	0	0	0	0	0	0	5	146	0	151	0	245	12	0	257	408
8:15 AM	0	0	0	0	0	0	41	180	0	221	0	283	77	0	360	581
8:30 AM	0	0	0	0	0	0	15	181	0	196	0	261	43	0	304	500
8:45 AM	0	0	0	0	0	0	2	162	0	164	0	238	4	0	242	406
Hourly Total	0	0	0	0	0	0	63	669	0	732	0	1027	136	0	1163	1895
9:00 AM	0	0	0	3	0	0	2	151	0	153	0	240	5	0	245	398
9:15 AM	0	0	0	0	0	0	0	156	0	156	0	182	3	0	185	341
*** BREAK ***	-	-				-	-		-		-			-	-	-
Hourly Total	0	0	0	3	0	0	2	307	0	309	0	422	8	0	430	739
2:30 PM	0	0	0	0	0	0	0	181	0	181	0	185	0	0	185	366
2:45 PM	0	0	0	0	0	0	5	206	0	211	0	204	6	0	210	421
Hourly Total	0	0	0	0	0	0	5	387	0	392	0	389	6	0	395	787
3:00 PM	0	0	0	0	0	0	16	183	0	199	0	214	12	0	226	425
3:15 PM	0	0	0	0	0	0	26	195	0	221	0	220	19	0	239	460
3:30 PM	0	0	0	0	0	0	3	199	0	202	0	245	11	0	256	458
3:45 PM	0	0	1	0	1	0	1	218	0	219	0	242	1	0	243	463
Hourly Total	0	0	1	0	1	0	46	795	0	841	0	921	43	0	964	1806
4:00 PM	0	0	0	0	0	0	0	225	0	225	0	223	0	0	223	448
4:15 PM	0	0	0	0	0	0	0	219	0	219	0	254		0	255	474

Grand Total	0	0	2	75	2	0	285	4356	3	4641	0	5464	384	8	5848	10491
Approach %	0.0	0.0	100.0	-	-	0.0	6.1	93.9	-	-	0.0	93.4	6.6	-	-	-
Total %	0.0	0.0	0.0	-	0.0	0.0	2.7	41.5	-	44.2	0.0	52.1	3.7	-	55.7	-
Lights	0	0	2	-	2	0	285	4232	-	4517	0	5301	384	-	5685	10204
% Lights	-	-	100.0	-	100.0	-	100.0	97.2	-	97.3	-	97.0	100.0	-	97.2	97.3
Buses	0	0	0	-	0	0	0	39	-	39	0	38	0	-	38	77
% Buses	-	-	0.0	-	0.0	-	0.0	0.9	-	0.8	-	0.7	0.0	-	0.6	0.7
Single-Unit Trucks	0	0	0	-	0	0	0	78	-	78	0	106	0	-	106	184
% Single-Unit Trucks	-	-	0.0	-	0.0	-	0.0	1.8	-	1.7	-	1.9	0.0	-	1.8	1.8
Articulated Trucks	0	0	0	-	0	0	0	7	-	7	0	19	0	-	19	26
% Articulated Trucks	-	-	0.0	-	0.0	-	0.0	0.2	-	0.2	-	0.3	0.0	-	0.3	0.2
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
Pedestrians	-	-	-	75	-	-	-	-	3	-	-	-	-	8	-	-
% Pedestrians	-	_	-	100.0	-	_	-	_	100.0	_	-	-	-	100.0	-	_



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

Count Name: Arlington Heights Road with Unsignalized Access Site Code: Start Date: 08/27/2017 Page No: 3

					i airiiiig	INIOACIII	Citt Ca	IN I IOUI L	Julia ( i i	.00 / ((1))						
		Inl	bound Access Di	rive			Arli	ington Heights R	oad			Arli	ngton Heights R	oad		
Otant Time			Eastbound					Northbound					Southbound			
Start Time	U-Turn	Left	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	Int. Total
11:00 AM	0	0	0	21	0	0	22	155	0	177	0	262	17	0	279	456
11:15 AM	0	0	0	1	0	0	32	135	0	167	0	151	33	0	184	351
11:30 AM	0	0	0	4	0	0	14	131	0	145	0	142	13	0	155	300
11:45 AM	0	0	0	0	0	0	3	157	0	160	0	174	2	0	176	336
Total	0	0	0	26	0	0	71	578	0	649	0	729	65	0	794	1443
Approach %	NaN	NaN	NaN	-	-	0.0	10.9	89.1	-	-	0.0	91.8	8.2	-	-	-
Total %	0.0	0.0	0.0	-	0.0	0.0	4.9	40.1	-	45.0	0.0	50.5	4.5	-	55.0	-
PHF	0.000	0.000	0.000	-	0.000	0.000	0.555	0.920	-	0.917	0.000	0.696	0.492	-	0.711	0.791
Lights	0	0	0	-	0	0	71	575	-	646	0	729	65	-	794	1440
% Lights	-	_	_	_	_	-	100.0	99.5	-	99.5	-	100.0	100.0	_	100.0	99.8
Buses	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Buses	-	-	-	-	-	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	0.0
Single-Unit Trucks	0	0	0	-	0	0	0	3	-	3	0	0	0	-	0	3
% Single-Unit Trucks	-	_	-	-	-	-	0.0	0.5	-	0.5	-	0.0	0.0	-	0.0	0.2
Articulated Trucks	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Articulated Trucks	-	_	_	_	_	-	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
% Bicycles on Road	-	-	-	-	-	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	0.0
Pedestrians	-	-	-	26	-	-		_	0		-	-	_	0		-
% Pedestrians	-	-	-	100.0	-	-	-	-	-	-	-	-	-	-	-	-



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

Count Name: Arlington Heights Road with Unsignalized Access Site Code: Start Date: 08/27/2017 Page No: 4

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		Inl	bound Access Di	rive			Arli	ington Heights R	oad			Arl	ington Heights R	oad		
Otant Time			Eastbound					Northbound					Southbound			
Start Time	U-Turn	Left	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	Int. Total
7:45 AM	0	0	0	0	0	0	8	158	0	166	0	283	6	0	289	455
8:00 AM	0	0	0	0	0	0	5	146	0	151	0	245	12	0	257	408
8:15 AM	0	0	0	0	0	0	41	180	0	221	0	283	77	0	360	581
8:30 AM	0	0	0	0	0	0	15	181	0	196	0	261	43	0	304	500
Total	0	0	0	0	0	0	69	665	0	734	0	1072	138	0	1210	1944
Approach %	NaN	NaN	NaN	-	-	0.0	9.4	90.6	-	-	0.0	88.6	11.4	-	-	-
Total %	0.0	0.0	0.0	-	0.0	0.0	3.5	34.2	-	37.8	0.0	55.1	7.1	-	62.2	-
PHF	0.000	0.000	0.000	-	0.000	0.000	0.421	0.919	-	0.830	0.000	0.947	0.448	-	0.840	0.836
Lights	0	0	0	-	0	0	69	632	-	701	0	1024	138	-	1162	1863
% Lights	-	-	-	-	<u>-</u>	-	100.0	95.0	-	95.5	-	95.5	100.0	-	96.0	95.8
Buses	0	0	0	-	0	0	0	8	-	8	0	9	0	-	9	17
% Buses	-	-	-	-	-	-	0.0	1.2	-	1.1	-	0.8	0.0	-	0.7	0.9
Single-Unit Trucks	0	0	0	-	0	0	0	23	-	23	0	32	0	-	32	55
% Single-Unit Trucks	-	-	-	-	-	-	0.0	3.5	-	3.1	-	3.0	0.0	-	2.6	2.8
Articulated Trucks	0	0	0	-	0	0	0	2	-	2	0	7	0	-	7	9
% Articulated Trucks	-	-	-	-	<u>-</u>	-	0.0	0.3	-	0.3	-	0.7	0.0	-	0.6	0.5
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
Pedestrians	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-
% Pedestrians	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Count Name: Arlington Heights Road with Unsignalized Access Site Code: Start Date: 08/27/2017 Page No: 5

					runni	y ivioveii		ak i ioui	Dala (J	.00 1 101)						
		Int	bound Access Di	rive			Arli	ington Heights R	oad			Arli	ngton Heights R	oad		
Otherst Time a			Eastbound					Northbound					Southbound			
Start Time	U-Turn	Left	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	Int. Total
3:00 PM	0	0	0	0	0	0	16	183	0	199	0	214	12	0	226	425
3:15 PM	0	0	0	0	0	0	26	195	0	221	0	220	19	0	239	460
3:30 PM	0	0	0	0	0	0	3	199	0	202	0	245	11	0	256	458
3:45 PM	0	0	1	0	1	0	1	218	0	219	0	242	1	0	243	463
Total	0	0	1	0	1	0	46	795	0	841	0	921	43	0	964	1806
Approach %	0.0	0.0	100.0	-	-	0.0	5.5	94.5	-	-	0.0	95.5	4.5	-	-	-
Total %	0.0	0.0	0.1	-	0.1	0.0	2.5	44.0	-	46.6	0.0	51.0	2.4	-	53.4	-
PHF	0.000	0.000	0.250	-	0.250	0.000	0.442	0.912	-	0.951	0.000	0.940	0.566	-	0.941	0.975
Lights	0	0	1	-	1	0	46	775	-	821	0	886	43	-	929	1751
% Lights	-	-	100.0	-	100.0	-	100.0	97.5	-	97.6	-	96.2	100.0	-	96.4	97.0
Buses	0	0	0	-	0	0	0	10	-	10	0	9	0	-	9	19
% Buses	-	-	0.0	-	0.0	-	0.0	1.3	-	1.2	-	1.0	0.0	-	0.9	1.1
Single-Unit Trucks	0	0	0	-	0	0	0	10	-	10	0	21	0	-	21	31
% Single-Unit Trucks	-	-	0.0	-	0.0	-	0.0	1.3	-	1.2	-	2.3	0.0	-	2.2	1.7
Articulated Trucks	0	0	0	-	0	0	0	0	-	0	0	5	0	-	5	5
% Articulated Trucks	-	-	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.5	0.0	-	0.5	0.3
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
Pedestrians	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-
% Pedestrians	-	_	_	-	-	_	-	-	-	-	_	_	-	-	-	-

Study Name Pine Avenue with Frederick Street
Start Date Sunday, August 27, 2017 9:00 AM
End Date Tuesday, August 29, 2017 4:30 PM
Site Code

#### Report Summary

				E	astboı	ınd				,	Westbou	ınd					North	bound					South	ound				No	ortheas	tbound	1				Crosswal	lk
Time Period	Class.	U	L		R	HR		0	U L					0	U I	HL	L T	R		0	U	L T	BR	R		0	U HI			HR		0	Total		Pedestrians	Total
Peak 1	Lights	0	3	16	2	7	28		0 2		5	0	12	22			7 18	3	28	7	0	0 3	2	1	6	25	0 4		3	0	11	14	85	w	1	1
Specified Period	%	0%	100%	100%	100%	100%	100%	94%	0% 100	% 100%	83%	0%	92%	100%	0% (	0% 10	00% 100%	100%	100%	100%	0% (	0% 1009	% 100%	100%	100%	100%	0% 100	% 100%	100%	0%	100%	100%	99%		100%	
11:00 AM - 12:00 PM	Buses	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	Е	0	0
One Hour Peak	%	0%	0%	0%	0%	0%	0%	0%	0% 09	0%	0%	0%	0%	0%	0% (	0% (	0%	0%	0%	0%	0% (	0% 0%	5 0%	0%	0%	0%	0% 0%	0%	0%	0%	0%	0%	0%		0%	
11:00 AM - 12:00 PM	Single-Unit Trucks	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	S	5	5
	%	0%	0%	0%	0%	0%	0%	0%	0% 09	0%	0%	0%	0%	0%	0% (	0% (	0%	0%	0%	0%	0% 0	0% 0%	5 0%	0%	0%	0%	0% 0%	0%	0%	0%	0%	0%	0%		100%	
	Articulated Trucks	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	N	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%	5 0%	0%	0%	0%	0% 0%	0%	0%	0%	0%	0%	0%		0%	
	Bicycles on Road	0	0	0	0	0	0	1	0 0	0	1	0	1	0		0	0 0	0	0	0		0 0		0	0	0	0 0	0	0	0	0	0	1	SW	2	2
	%	0%	0%	0%	0%	0%	0%	6%	0% 09	0%	17%	0%	8%	0%	0% (	0% (	n% 0%	0%	0%	0%	0% 0	0% 0%	5 0%	0%	0%	0%	0% 0%	0%	0%	0%	0%	0%	1%		100%	
	Total	0	3	16	2	7	28	18	0 2		6	0	13	22		0	7 18		28	7		0 3	2	1	6	25	0 4	4	3	0	11	14	86		8	8
	PHF	0		0.36		0.58			0 0.5			0		0.32	0			0.25		0.88		0 0.3		0.25	0.5	0.27	0 0.3	3 05	0.25		0.34	0.5	0.41			
	Approach %	ŭ	0.23	0.50	0.23	0.50	1	21%	5 0	0.42	0.55	ŭ	15%		ľ	- 0	0.2.	0.23		8%	ľ	2 0.5	_ 0.5	0.23	7%	29%	5 5.5	. 0.5	0.23	ŭ	13%	16%	0.11			
	присменя						33,0	2.270					2370	2070					3373	0,0						2370					1000	20/0				
Time Period	Class.	U	L	Т	R	HR	1	0	U L	BL	Т	R	ı	0	U	HL	L T	R	1	0	U	L T	BR	R	1	0	U HI	. BL	BR	HR	ı	0	Total		Pedestrians	Total
Peak 1	Lights	0	3	20	2	6	31	51	0 2	3	16	1	22	29	0	0	7 13	3	23	11	0	0 4	4	8	16	27	0 20	10	6	3	39	13	131	W	1	1
Specified Period	%	0%	100%	100%	100%	100%	100%	100%	0% 679	6 100%	100%	50%	92%	100%	0% (	0% 10	00% 1009	100%	100%	85%	0% 0	0% 80%	6 100%	100%	94%	96%	0% 100	% 100%	100%	100%	100%	100%	98%		100%	
7:45 AM - 8:45 AM	Buses	0	0	0	0	0	0	0	0 1	0	0	1	2	0	0	0	0 0	0	0	2	0	0 1	0	0	1	1	0 0	0	0	0	0	0	3	E	0	0
One Hour Peak	%	0%	0%	0%	0%	0%	0%	0%	0% 339	6 0%	0%	50%	8%	0%	0% (	0% (	0%	0%	0%	15%	0% 0	0% 209	6 0%	0%	6%	4%	0% 0%	0%	0%	0%	0%	0%	2%		0%	
7:45 AM - 8:45 AM	Single-Unit Trucks	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	S	8	8
	%	0%	0%	0%	0%	0%	0%	0%	0% 09	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%		100%	
	Articulated Trucks	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	N	0	0
	96	0%	0%	0%	0%	0%	0%	0%	0% 0%	0%	0%	0%	0%	0%	0% (	0% (	0%	0%	0%	0%	0% (	0% 0%	5 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	0	0	SW	1	1
	96	0%	0%	0%	0%	0%	0%	0%	0% 0%	0%	0%	0%	0%	0%	0% (	0% (	0%	0%	0%	0%	0% (	0% 0%	5 0%	0%	0%	0%	0% 0%	0%	0%	0%	0%	0%	0%		100%	
	Total	0	3	20	2	6	31	51	0 3	3	16	2	24	29	0	0	7 13	3	23	13	0	0 5	4	8	17	28	0 20	10	6	3	39	13	134		10	10
	PHF	0	0.38	0.71	0.5	0.75	0.7	0.64	0 0.3	8 0.38	0.8	0.5	0.67	0.81	0	0 0	.58 0.65	0.38	0.72	0.54	0	0 0.6	2 0.33	0.5	0.85	0.64	0 0.3	1 0.5	0.38	0.75	0.39	0.65	0.73			
	Approach %						23%	38%					18%	22%					17%	10%					13%	21%					29%	10%				
Peak 2	Lights	1	4	17	9	7	38	26	0 8	2	15	2	27	19	0	2	4 2	0	8	25	0	2 8	11	5	26	8	0 1	0	0	0	1	22	100	W	8	8
Specified Period	%	100%	100%	100%	90%	88%	95%	100%	0% 100	% 100%	100%			100%		00% 10	00% 100%	0%	100%	96%		00% 1009	% 100%	100%	100%	100%	0% 100	% 0%	0%	0%	100%	96%	98%		100%	
3:00 PM - 4:00 PM	Buses	0	0	0	1	1	2	0	0 0	0	0	0	0	0	0	0	0 0	0	0	1	0	0 0	0	0	0	0	0 0	0	0	0	0	1	2	E	0	0
One Hour Peak	%	0%	0%	0%	10%	13%	5%	0%	0% 09	0%	0%	0%	0%	0%		0% (	0%	0%	0%	4%	0% (	0% 0%	5 0%	0%	0%	0%	0% 0%	0%	0%	0%	0%	4%	2%		0%	
3:00 PM - 4:00 PM	Single-Unit Trucks	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	S	14	14
	%	0%	0%	0%	0%	0%	0%	0%	0% 09	0%	0%	0%	0%	0%	0% (	0% (	0%	0%	0%	0%	0% 0	0% 0%	5 0%	0%	0%	0%	0% 0%	0%	0%	0%	0%	0%	0%		100%	
	Articulated Trucks	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	N	2	2
	%	0%	0%	0%	0%	0%	0%	0%	0% 09	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%		100%	
	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	0	0	SW	0	0
	%	0%	0%	0%	0%	0%	0%	0%	0% 09	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%	
	Total	1	4	17	10	8	40	26	0 8	2	15	2	27	19	0	2	4 2	0	8	26	0	2 8	11	5	26	8	0 1	0	0	0	1	23	102		24	24
	PHF	0.25	0.5	0.53	0.5	0.67	0.83	0.72	0 0.3	3 0.25	0.62	0.5	0.75	0.59	0 0	0.5 0	.25 0.5	0	0.4	0.46	0 0	0.5 0.6	7 0.39	0.42	0.59	0.5	0 0.2	5 0	0	0	0.25	0.44	0.88			
	Approach %						39%	25%					26%	19%					8%	25%					25%	8%					1%	23%				



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

Count Name: Pine Avenue with Marshall Street Site Code: Start Date: 08/27/2017

Page No: 1

			Marshall Street Westbound					Pine Avenue  Northbound	- ata				Pine Avenue Southbound			
Start Time	U-Turn	Left	Right	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	Int. Total
9:00 AM	0	0	0	0	0	0	1	0	0	1	0	0	3	0	3	4
9:15 AM	0	0	1	0	1	0	4	0	0	4	0	18	61	0	79	84
9:30 AM	0	0	0	0	0	0	1	1	0	2	0	1	6	0	7	9
9:45 AM	0	0	8	0	8	0	20	0	0	20	0	0	4	2	4	32
Hourly Total	0	0	9	0	9	0	26	1	0	27	0	19	74	2	93	129
10:00 AM	0	0	1	0	1	0	7	0	0	7	0	0	3	0	3	11
10:15 AM	0	0	0	0	0	0	3	0	0	3	0	0	2	0	2	5
10:30 AM	0	0	0	0	0	0	1	0	0	1	0	0	2	1	2	3
10:45 AM	0	0	0	0	0	0	5	1	0	6	0	2	5	5	7	13
Hourly Total	0	0	1	0	1	0	16	1	0	17	0	2	12	6	14	32
11:00 AM	0	0	0	0	0	0	4	0	0	4	0	9	31	5	40	44
11:15 AM	0	0	1	2	1	0	3	0	0	3	0	1	5	0	6	10
11:30 AM	0	1	1	2	2	0	0	2	0	2	0	0	2	0	2	6
11:45 AM	0	0	1	0	1	0	0	1	0	1	0	0	0	0	0	2
Hourly Total	0	1	3	4	4	0	7	3	0	10	0	10	38	5	48	62
*** BREAK ***	-	-		-		-	-		-	-		-	-	-		-
7:30 AM	0	0	2	0	2	0	6	0	0	6	0	1	7	0	8	16
7:45 AM	0	0	0	0	0	0	3	0	0	3	0	3	11	0	14	17
Hourly Total	0	0	2	0	2	0	9	0	0	9	0	4	18	0	22	33
8:00 AM	0	0	1	1	1	0	0	0	0	0	0	6	10	0	16	17
8:15 AM	0	0	0	0	0	0	5	0	0	5	0	1	5	0	6	11
8:30 AM	0	0	1	1	1	0	0	0	0	0	0	0	6	1	6	7
8:45 AM	0	0	1	0	1	0	1	0	0	1	0	1	1	1	2	4
Hourly Total	0	0	3	2	3	0	6	0	0	6	0	8	22	2	30	39
9:00 AM	0	0	0	1	0	0	1	0	0	. 1	0	1	1	0	2	3
9:15 AM	0	0	0	1	. 0	0	0	0	0	. 0	0	0	1	0	1	1
*** BREAK ***	-	-	<u>-</u>	-	-	-	-	-	-	-	-	-		-	-	-
Hourly Total	0	0	0	2	0	0	1	0	0	1	0	1	2	0	3	4
2:30 PM	0	1	. 1	0	. 2	0	3	0	0	3	0	0	0	0	0	5
2:45 PM	0	1	0	0	1	0	2	0	0	2	0	1	1	0	2	5
Hourly Total	0	2	1	0	3	0	5	0	0	5	0	1	1	0	2	10
3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2
3:15 PM	0	1	0	0	1	0	2	3	0	5	0	1	3	1	4	10
3:30 PM	0	0	0	0	0	0	5	1	0	6	0	26	16	5	42	48
3:45 PM	0	1	1	1	2	0	4	0	0	4	0	2	4	0	6	12
Hourly Total	0	2	1	1	3	0	11	4	0	15	0	29	25	6	54	72
4:00 PM	0	0	1	0	1	0	1	0	0	. 1	0	0	5	0	5	7
4:15 PM	0	0	0	0	0	0	4	0	0	4	0	1		0	4	8

Grand Total	0	5	21	9	26	0	86	9	0	95	0	75	200	21	275	396
Approach %	0.0	19.2	80.8	-	-	0.0	90.5	9.5	-	-	0.0	27.3	72.7	-	-	-
Total %	0.0	1.3	5.3	-	6.6	0.0	21.7	2.3	-	24.0	0.0	18.9	50.5	-	69.4	-
Lights	0	5	20	-	25	0	86	9	-	95	0	75	195	-	270	390
% Lights	-	100.0	95.2	-	96.2	-	100.0	100.0	-	100.0	-	100.0	97.5	-	98.2	98.5
Buses	0	0	0	-	0	0	0	0	-	0	0	0	4	-	4	4
% Buses	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.0	2.0	-	1.5	1.0
Single-Unit Trucks	0	0	1	-	1	0	0	0	-	0	0	0	0	-	0	1
% Single-Unit Trucks	-	0.0	4.8	-	3.8	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	0.3
Articulated Trucks	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Articulated Trucks	-	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	1	-	1	1
% Bicycles on Road	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.0	0.5	-	0.4	0.3
Pedestrians	-	-	-	9	-	-	-	-	0	-	-	-	-	21	-	-
% Pedestrians	-	-	_	100.0	-	-	_	_	-	-	-	-	-	100.0	-	-



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

Count Name: Pine Avenue with Marshall Street Site Code: Start Date: 08/27/2017 Page No: 3

	ı				running	INIOACIII	ienti ea		Jala ( 1 i	.uu Alvi)						I.
			Marshall Street					Pine Avenue					Pine Avenue			1
Start Time			Westbound					Northbound					Southbound			1
Start Time	U-Turn	Left	Right	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	Int. Total
11:00 AM	0	0	0	0	0	0	4	0	0	4	0	9	31	5	40	44
11:15 AM	0	0	1	2	1	0	3	0	0	3	0	1	5	0	6	10
11:30 AM	0	1	1	2	2	0	0	2	0	2	0	0	2	0	2	6
11:45 AM	0	0	1	0	1	0	0	1	0	1	0	0	0	0	0	2
Total	0	1	3	4	4	0	7	3	0	10	0	10	38	5	48	62
Approach %	0.0	25.0	75.0	-	-	0.0	70.0	30.0	-	-	0.0	20.8	79.2	-	-	-
Total %	0.0	1.6	4.8	-	6.5	0.0	11.3	4.8	-	16.1	0.0	16.1	61.3	-	77.4	-
PHF	0.000	0.250	0.750	-	0.500	0.000	0.438	0.375	-	0.625	0.000	0.278	0.306	-	0.300	0.352
Lights	0	1	3	-	4	0	7	3	-	10	0	10	38	-	48	62
% Lights	-	100.0	100.0	-	100.0	-	100.0	100.0	-	100.0	-	100.0	100.0	-	100.0	100.0
Buses	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Buses	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	0.0
Single-Unit Trucks	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Single-Unit Trucks	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	0.0
Articulated Trucks	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Articulated Trucks	-	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
% Bicycles on Road	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	0.0
Pedestrians	-	-	-	4		-	-	_	0	-	-	-	_	5	_	-
% Pedestrians	-	_	-	100.0	-	-	-	-	-	-	-	-	<u>-</u>	100.0	-	-



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

Count Name: Pine Avenue with Marshall Street Site Code: Start Date: 08/27/2017 Page No: 4

					runni	a moven	HEHR F	ak i loui l	Dala (7.	$+$ 3 $-$ 1 $\times$ 1)						
			Marshall Street	t				Pine Avenue					Pine Avenue			
O: . T			Westbound					Northbound					Southbound			
Start Time	U-Turn	Left	Right	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	Int. Total
7:45 AM	0	0	0	0	0	0	3	0	0	3	0	3	11	0	14	17
8:00 AM	0	0	1	1	1	0	0	0	0	0	0	6	10	0	16	17
8:15 AM	0	0	0	0	0	0	5	0	0	5	0	1	5	0	6	11
8:30 AM	0	0	1	1	1	0	0	0	0	0	0	0	6	1	6	7
Total	0	0	2	2	2	0	8	0	0	8	0	10	32	1	42	52
Approach %	0.0	0.0	100.0	-	-	0.0	100.0	0.0	-	-	0.0	23.8	76.2	-	-	-
Total %	0.0	0.0	3.8	-	3.8	0.0	15.4	0.0	-	15.4	0.0	19.2	61.5	-	80.8	-
PHF	0.000	0.000	0.500	-	0.500	0.000	0.400	0.000	-	0.400	0.000	0.417	0.727	-	0.656	0.765
Lights	0	0	1	-	1	0	8	0	-	8	0	10	30	-	40	49
% Lights	-	-	50.0	_	50.0	-	100.0		-	100.0	-	100.0	93.8	-	95.2	94.2
Buses	0	0	0	_	0	0	0	0	-	0	0	0	2	-	2	2
% Buses	-	-	0.0		0.0	-	0.0		-	0.0	-	0.0	6.3	-	4.8	3.8
Single-Unit Trucks	0	0	1	-	. 1	0	0	0	-	0	0	0	0	-	0	1
% Single-Unit Trucks	-	-	50.0	_	50.0	-	0.0		-	0.0	-	0.0	0.0	-	0.0	1.9
Articulated Trucks	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Articulated Trucks	-	_	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
% Bicycles on Road	-	-	0.0	-	0.0	-	0.0	-	-	0.0	-	0.0	0.0	-	0.0	0.0
Pedestrians	-		_	2		-			0	-	-	-		1	-	-
% Pedestrians	-	_	_	100.0		-	_	-	-	_	-	-	_	100.0	-	-



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

Count Name: Pine Avenue with Marshall Street Site Code: Start Date: 08/27/2017 Page No: 5

	1				runni	i i i i i i i i i i i i i i i i i i i	ICIII I C	ak Houl i	Jala (J.	.00 i ivi <i>)</i>						ı
			Marshall Street					Pine Avenue					Pine Avenue			1
Otant Time			Westbound					Northbound					Southbound			1
Start Time	U-Turn	Left	Right	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	Int. Total
3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2
3:15 PM	0	1	0	0	1	0	2	3	0	5	0	1	3	1	4	10
3:30 PM	0	0	0	0	0	0	5	1	0	6	0	26	16	5	42	48
3:45 PM	0	1	1	1	2	0	4	0	0	4	0	2	4	0	6	12
Total	0	2	1	1	3	0	11	4	0	15	0	29	25	6	54	72
Approach %	0.0	66.7	33.3	-	-	0.0	73.3	26.7	-	-	0.0	53.7	46.3	-	-	-
Total %	0.0	2.8	1.4	-	4.2	0.0	15.3	5.6	-	20.8	0.0	40.3	34.7	-	75.0	-
PHF	0.000	0.500	0.250	-	0.375	0.000	0.550	0.333	-	0.625	0.000	0.279	0.391	-	0.321	0.375
Lights	0	2	1	-	3	0	11	4	-	15	0	29	23	-	52	70
% Lights	-	100.0	100.0	-	100.0	-	100.0	100.0	-	100.0	-	100.0	92.0	-	96.3	97.2
Buses	0	0	0	-	0	0	0	0	-	0	0	0	2	-	2	2
% Buses	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.0	8.0	-	3.7	2.8
Single-Unit Trucks	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Single-Unit Trucks	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	0.0
Articulated Trucks	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Articulated Trucks	-	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
% 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	-	-	-		0	-	-	-		6	-	-
% Pedestrians	-	-	-	100.0	-	-	-	-	-	-	-	-	_	100.0	-	-



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

Count Name: Pine Avenue with Hawthorne Stret Site Code: Start Date: 08/27/2017 Page No: 1

Chart Time		ı	Hawthorne Stree Eastbound	t			ge	Hawthorne Stree					Pine Avenue Southbound			
Start Time	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	U-Turn	Left	Right	Peds	App. Total	Int. Total
9:00 AM	0	0	1	0	1	0	3	. 2	0	5	0	1	2	1	3	9
9:15 AM	0	1	2	0	3	0	1	3	0	4	0	29	32	4	61	68
9:30 AM	0	2	1	0	3	0	2	1	0	3	0	4	3	0	7	13
9:45 AM	0	6	2	0	. 8	0	4	15	0	19	0	2	. 2	3	4	31
Hourly Total	0	9	6	0	15	0	10	21	0	31	0	36	39	8	75	121
10:00 AM	0	6	3	0	9	0	3	11	0	4	0	2	3	1	5	18
10:15 AM	0	0	1	0	1	0	3	. 3	0	6	0	0	. 2	0	2	9
10:30 AM	0	1	3	0	4	0	2	1	0	3	0	3	0	4	3	10
10:45 AM	0	5	6	0	11	0	4	0	0	4	0	3	3	2	6	21
Hourly Total	0	12	13	0	25	0	12	5	0	17	0	8	8	7	16	58
11:00 AM	0	3	11	0	14	0	2	2	0	4	0	22	9	3	31	49
11:15 AM	0	1	8	0	9	0	5	2	0	7	0	2	2	1	4	20
11:30 AM	0	0	0	0	0	0	3	. 1	0	4	0	0	3	0	3	7
11:45 AM	0	3	2	0	5	0	2	1	0	3	0	1	1	1	2	10
Hourly Total	0	7	21	0	28	0	12	6	0	18	0	25	15	5	40	86
*** BREAK ***	-	-		-		-	-		-	-	-	-	-	-	-	-
7:30 AM	0	2	30	0	32	0	10	3	0	13	0	3	4	1	7	52
7:45 AM	0	0	15	0	15	0	8	3	0	11	0	4	7	2	11	37
Hourly Total	0	2	45	0	47	0	18	6	0	24	0	7	11	3	18	89
8:00 AM	0	0	4	0	4	0	5	0	0	5	0	5	7	2	12	21
8:15 AM	0	0	11	0	11	0	10	3	0	13	0	3	4	2	7	31
8:30 AM	0	0	7	0	7	0	5	0	0	5	0	5	1	1	6	18
8:45 AM	0	1	1	0	2	0	0	0	0	0	0	0	1	0	1	3
Hourly Total	0	1	23	0	24	0	20	3	0	23	0	13	13	5	26	73
9:00 AM	0	0	6	0	6	0	5	. 1	0	6	0	1	0	1	1	13
9:15 AM	0	0	5	0	5	0	2	0	0	2	0	0	. 1	2	. 1	8
*** BREAK ***	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-
Hourly Total	0	0	11	0	11	0	7	1	0	8	0	1	1	3	2	21
2:30 PM	0	2	6	0	8	0	2	. 1	0	3	0	1	0	0	1	12
2:45 PM	0	2	6	0	8	0	2	0	0	2	0	2	1	0	3	13
Hourly Total	0	4	12	0	16	0	4	1	0	5	0	3	1	0	4	25
3:00 PM	0	0	4	0	4	0	5	. 1	0	6	0	1	0	1	1	11
3:15 PM	0	4	6	0	10	0	12	0	0	12	0	1	2	0	3	25
3:30 PM	0	2	9	0	11	0	1	1	0	2	0	5	8	0	13	26
3:45 PM	0	2	8	0	10	0	5	1	0	6	0	3	3	4	6	22
Hourly Total	0	8	27	0	35	0	23	3	0	26	0	10	13	5	23	84
4:00 PM	0	0	5	0	5	0	4	1	0	5	0	1	1	2	2	12
4:15 PM	0	3	2	0	5	0	0	0	0	0	0	2	2	1	4	9

Grand Total	0	46	165	0	211	0	110	47	0	157	0	106	104	39	210	578
Approach %	0.0	21.8	78.2	-	-	0.0	70.1	29.9	-	-	0.0	50.5	49.5	-	-	-
Total %	0.0	8.0	28.5	-	36.5	0.0	19.0	8.1	-	27.2	0.0	18.3	18.0	-	36.3	-
Lights	0	46	159	-	205	0	106	47	-	153	0	102	102	-	204	562
% Lights	-	100.0	96.4	-	97.2	-	96.4	100.0	-	97.5	-	96.2	98.1	-	97.1	97.2
Buses	0	0	2	-	2	0	0	0	-	0	0	2	2	-	4	6
% Buses	-	0.0	1.2	-	0.9	-	0.0	0.0	-	0.0	-	1.9	1.9	-	1.9	1.0
Single-Unit Trucks	0	0	1	-	1	0	1	0	-	1	0	0	0	-	0	2
% Single-Unit Trucks	-	0.0	0.6	-	0.5	-	0.9	0.0	-	0.6	-	0.0	0.0	-	0.0	0.3
Articulated Trucks	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Articulated Trucks	-	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	3	-	3	0	3	0	-	3	0	2	0	-	2	8
% Bicycles on Road	-	0.0	1.8	-	1.4	-	2.7	0.0	-	1.9	-	1.9	0.0	-	1.0	1.4
Pedestrians	-	-	-	0	-	-	-	-	0	-	-	-	-	39	-	-
% Pedestrians	-	-	_	-	-	-	_	-	-	-	_	-	_	100.0	_	-



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Count Name: Pine Avenue with Hawthorne Stret Site Code: Start Date: 08/27/2017 Page No: 3

	1				running	ivioveiii	ieni Pea	K HOULL	Jala (TI	.UU AIVI)						
			Hawthorne Stree	et				Hawthorne Stree	t				Pine Avenue			
Start Time			Eastbound					Westbound					Southbound			
Start Time	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	U-Turn	Left	Right	Peds	App. Total	Int. Total
11:00 AM	0	3	11	0	14	0	2	2	0	4	0	22	9	3	31	49
11:15 AM	0	1	8	0	9	0	5	2	0	7	0	2	2	1	4	20
11:30 AM	0	0	0	0	0	0	3	1	0	4	0	0	3	0	3	7
11:45 AM	0	3	2	0	5	0	2	1	0	3	0	1	1	1	2	10
Total	0	7	21	0	28	0	12	6	0	18	0	25	15	5	40	86
Approach %	0.0	25.0	75.0	-	-	0.0	66.7	33.3	-	-	0.0	62.5	37.5	-	-	-
Total %	0.0	8.1	24.4	-	32.6	0.0	14.0	7.0	-	20.9	0.0	29.1	17.4	-	46.5	-
PHF	0.000	0.583	0.477	-	0.500	0.000	0.600	0.750	-	0.643	0.000	0.284	0.417	-	0.323	0.439
Lights	0	7	21	-	28	0	12	6	-	18	0	25	15	-	40	86
% Lights	-	100.0	100.0	-	100.0	1	100.0	100.0	-	100.0	-	100.0	100.0	-	100.0	100.0
Buses	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Buses	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	0.0
Single-Unit Trucks	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Single-Unit Trucks	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	0.0
Articulated Trucks	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Articulated Trucks	-	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
% 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	-	-	-	-	5	-	-
% Pedestrians	-	-	-	-	-	-	-	-	-	-	-	-	-	100.0	-	-



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

Count Name: Pine Avenue with Hawthorne Stret Site Code: Start Date: 08/27/2017 Page No: 4

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			Hawthorne Stree	et			1	Hawthorne Stree	t				Pine Avenue			
Start Time			Eastbound					Westbound					Southbound			
Start Time	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	U-Turn	Left	Right	Peds	App. Total	Int. Total
7:45 AM	0	0	15	0	15	0	8	3	0	11	0	4	7	2	11	37
8:00 AM	0	0	4	0	4	0	5	0	0	5	0	5	7	2	12	21
8:15 AM	0	0	11	0	11	0	10	3	0	13	0	3	4	2	7	31
8:30 AM	0	0	7	0	7	0	5	0	0	5	0	5	1	1	6	18
Total	0	0	37	0	37	0	28	6	0	34	0	17	19	7	36	107
Approach %	0.0	0.0	100.0	-	-	0.0	82.4	17.6	-	-	0.0	47.2	52.8	-	-	-
Total %	0.0	0.0	34.6	_	34.6	0.0	26.2	5.6	-	31.8	0.0	15.9	17.8	-	33.6	-
PHF	0.000	0.000	0.617	-	0.617	0.000	0.700	0.500	-	0.654	0.000	0.850	0.679	-	0.750	0.723
Lights	0	0	36	-	36	0	28	6	-	34	0	15	19	-	34	104
% Lights	-		97.3	-	97.3	-	100.0	100.0	-	100.0	-	88.2	100.0	-	94.4	97.2
Buses	0	0	1	-	1	0	0	0	-	0	0	2	0	-	2	3
% Buses	-	-	2.7	-	2.7	-	0.0	0.0	-	0.0	-	11.8	0.0	-	5.6	2.8
Single-Unit Trucks	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Single-Unit Trucks	-	-	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	0.0
Articulated Trucks	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Articulated Trucks	-	-	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
% Bicycles on Road	-	-	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	0.0
Pedestrians	-	-	_	0	_	-	_	_	0	-	-	-	_	7	_	-
% Pedestrians	-	-	_	-	-	-	-	-	-	-	-	-	-	100.0	-	-



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

Count Name: Pine Avenue with Hawthorne Stret Site Code: Start Date: 08/27/2017 Page No: 5

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		1	Hawthorne Stree	et				Hawthorne Stree	t				Pine Avenue			
Ot Ti			Eastbound					Westbound					Southbound			
Start Time	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	U-Turn	Left	Right	Peds	App. Total	Int. Total
3:00 PM	0	0	4	0	4	0	5	1	0	6	0	1	0	1	1	11
3:15 PM	0	4	6	0	10	0	12	0	0	12	0	1	2	0	3	25
3:30 PM	0	2	9	0	11	0	1	1	0	2	0	5	8	0	13	26
3:45 PM	0	2	8	0	10	0	5	1	0	6	0	3	3	4	6	22
Total	0	8	27	0	35	0	23	3	0	26	0	10	13	5	23	84
Approach %	0.0	22.9	77.1	-	-	0.0	88.5	11.5	-	-	0.0	43.5	56.5	-	-	-
Total %	0.0	9.5	32.1	-	41.7	0.0	27.4	3.6	-	31.0	0.0	11.9	15.5	-	27.4	-
PHF	0.000	0.500	0.750	-	0.795	0.000	0.479	0.750	-	0.542	0.000	0.500	0.406	-	0.442	0.808
Lights	0	8	27	-	35	0	23	3	-	26	0	10	11	-	21	82
% Lights	-	100.0	100.0	-	100.0	-	100.0	100.0	-	100.0	-	100.0	84.6	-	91.3	97.6
Buses	0	0	0	-	0	0	0	0	-	0	0	0	2	-	2	2
% Buses	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.0	15.4	-	8.7	2.4
Single-Unit Trucks	0	0	0	_	0	0	0	0	-	0	0	0	0	_	0	0
% Single-Unit Trucks	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	0.0
Articulated Trucks	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Articulated Trucks	-	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
% 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		-	-	-	5		-
% Pedestrians	-	-	-	-	-	-	-	-	-	-	-	-	-	100.0	-	-



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

Count Name: Pine Avenue with Northerly Access Drive Site Code: Start Date: 08/27/2017 Page No: 1

Otant Time		No	ortherly Access D Eastbound	rive				Pine Avenue Northbound	- ata				Pine Avenue Southbound			
Start Time	U-Turn	Left	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	Int. Total
9:00 AM	0	0	0	2	0	0	0	0	0	0	0	2	0	0	2	2
9:15 AM	0	12	21	3	33	0	0	10	3	10	0	13	0	0	13	56
9:30 AM	0	1	3	0	4	0	1	0	0	1	0	1	1	0	2	7
9:45 AM	0	0	0	0	0	0	3	2	0	5	0	4	4	0	8	13
Hourly Total	0	13	24	5	37	0	4	12	3	16	0	20	5	0	25	78
10:00 AM	0	0	0	0	0	0	1	1	0	2	0	2	1	0	3	5
10:15 AM	0	0	0	1	0	0	1	. 1	0	2	0	2	0	0	2	4
10:30 AM	0	1	0	1	1	0	0	1	0	1	0	1	0	0	1	3
10:45 AM	0	0	1	1	1	0	1	2	0	3	0	2	0	0	2	6
Hourly Total	0	1	1	3	2	0	3	5	0	8	0	7	1	0	8	18
11:00 AM	0	9	6	0	15	0	0	18	0	18	0	2	0	0	2	35
11:15 AM	0	0	1	0	1	0	0	1	0	1	0	1	2	0	3	5
11:30 AM	0	0	1	0	. 1	0	0	. 1	0	1	0	1	0	0	. 1	3
11:45 AM	0	0	0	1	0	0	0	1	0	1	0	0	1	0	1	2
Hourly Total	0	9	8	1	17	0	0	21	0	21	0	4	3	0	7	45
*** BREAK ***	-	-		-	_	-	-	-	-	-		-	-	-	-	-
7:30 AM	0	1	0	0	1	0	1	4	0	5	0	8	0	0	8	14
7:45 AM	0	4	6	1	10	0	0	5	0	5	0	4	0	0	4	19
Hourly Total	0	5	6	1	11	0	1	9	0	10	0	12	0	0	12	33
8:00 AM	0	2	4	1	6	0	0	3	0	3	0	2	0	1	2	11
8:15 AM	0	2	1	3	3	0	3	4	0	7	0	4	0	0	4	14
8:30 AM	0	0	0	1	0	0	0	2	0	2	0	2	0	1	2	4
8:45 AM	0	0	0	1	0	0	0	3	0	3	0	2	0	0	2	5
Hourly Total	0	4	5	6	9	0	3	12	0	15	0	10	0	2	10	34
9:00 AM	0	1	1	1	2	0	0	1	0	. 1	0	1	0	0	. 1	4
9:15 AM	0	0	0	2	0	0	0	0	0	. 0	0	0	0	0	0	0
*** BREAK ***	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-
Hourly Total	0	1	1	3	2	0	0	. 1	0	1	0	1	0	0	. 1	4
2:30 PM	0	0	0	0	0	0	0	5	0	5	0	0	0	0	0	5
2:45 PM	0	0	0	0	0	0	0	1	0	1	0	2	0	0	2	3
Hourly Total	0	0	0	0	0	0	0	6	0	6	0	2	0	0	2	8
3:00 PM	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3	3
3:15 PM	0	0	1	0	1	0	0	1	1	1	0	8	1	2	9	11
3:30 PM	0	0	0	3	0	0	1	2	0	3	0	9	1	1	10	13
3:45 PM	0	2	0	0	2	0	0	4	0	4	0	2	0	0	2	8
Hourly Total	0	2	1	3	3	0	1	7	1	8	0	21	3	3	24	35
4:00 PM	0	0	0	0	0	0	0	2	0	2	0	6	0	0	6	8
4:15 PM	0	0	0	2	0	0	0	3	0	3	0	0	2	0	2	5

Grand Total	0	35	46	24	81	0	12	78	4	90	0	83	14	5	97	268
Approach %	0.0	43.2	56.8	-	-	0.0	13.3	86.7	-	-	0.0	85.6	14.4	-	-	-
Total %	0.0	13.1	17.2	-	30.2	0.0	4.5	29.1	-	33.6	0.0	31.0	5.2	-	36.2	-
Lights	0	35	46	-	81	0	12	77	-	89	0	80	13	-	93	263
% Lights	-	100.0	100.0	-	100.0	-	100.0	98.7	-	98.9	-	96.4	92.9	-	95.9	98.1
Buses	0	0	0	-	0	0	0	0	-	0	0	2	1	-	3	3
% Buses	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	2.4	7.1	-	3.1	1.1
Single-Unit Trucks	0	0	0	-	0	0	0	1	-	1	0	0	0	-	0	1
% Single-Unit Trucks	-	0.0	0.0	-	0.0	-	0.0	1.3	-	1.1	-	0.0	0.0	-	0.0	0.4
Articulated Trucks	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Articulated Trucks	-	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	1	0	-	1	1
% Bicycles on Road	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	1.2	0.0	-	1.0	0.4
Pedestrians	-	-	-	24	-	-	-	-	4	-	-	-	-	5	-	-
% Pedestrians	-	-	_	100.0	<u>-</u>	-	_	_	100.0	-	-	_	-	100.0	_	-



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

Count Name: Pine Avenue with Northerly Access Drive Site Code: Start Date: 08/27/2017 Page No: 3

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		No	rtherly Access D	rive				Pine Avenue					Pine Avenue			
Ot and Time			Eastbound					Northbound					Southbound			
Start Time	U-Turn	Left	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	Int. Total
11:00 AM	0	9	6	0	15	0	0	18	0	18	0	2	0	0	2	35
11:15 AM	0	0	1	0	1	0	0	1	0	1	0	1	2	0	3	5
11:30 AM	0	0	1	0	1	0	0	1	0	1	0	1	0	0	1	3
11:45 AM	0	0	0	1	0	0	0	1	0	1	0	0	1	0	1	2
Total	0	9	8	1	17	0	0	21	0	21	0	4	3	0	7	45
Approach %	0.0	52.9	47.1	-	-	0.0	0.0	100.0	-	-	0.0	57.1	42.9	-	-	-
Total %	0.0	20.0	17.8	-	37.8	0.0	0.0	46.7	-	46.7	0.0	8.9	6.7	-	15.6	-
PHF	0.000	0.250	0.333	-	0.283	0.000	0.000	0.292	-	0.292	0.000	0.500	0.375	-	0.583	0.321
Lights	0	9	8	-	17	0	0	21	-	21	0	4	3	-	7	45
% Lights	-	100.0	100.0	-	100.0	-	_	100.0	-	100.0	-	100.0	100.0	-	100.0	100.0
Buses	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Buses	-	0.0	0.0	-	0.0	-	-	0.0	-	0.0	-	0.0	0.0	-	0.0	0.0
Single-Unit Trucks	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Single-Unit Trucks	-	0.0	0.0	-	0.0	-	-	0.0	-	0.0	-	0.0	0.0	-	0.0	0.0
Articulated Trucks	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Articulated Trucks	-	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
% Bicycles on Road	-	0.0	0.0	_	0.0	-		0.0	-	0.0	-	0.0	0.0	-	0.0	0.0
Pedestrians	-	-	_	1		-	-	-	0		-	-	-	0		-
% Pedestrians	-	-	-	100.0	-	-	-	-	-	-	-	-	-	-	-	-



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Count Name: Pine Avenue with Northerly Access Drive Site Code: Start Date: 08/27/2017 Page No: 4

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		No	rtherly Access D	rive				Pine Avenue					Pine Avenue			
Otant Time			Eastbound					Northbound					Southbound			
Start Time	U-Turn	Left	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	Int. Total
7:45 AM	0	4	6	1	10	0	0	5	0	5	0	4	0	0	4	19
8:00 AM	0	2	4	1	6	0	0	3	0	3	0	2	0	1	2	11
8:15 AM	0	2	1	3	3	0	3	4	0	7	0	4	0	0	4	14
8:30 AM	0	0	0	1	0	0	0	2	0	2	0	2	0	1	2	4
Total	0	8	11	6	19	0	3	14	0	17	0	12	0	2	12	48
Approach %	0.0	42.1	57.9	-	-	0.0	17.6	82.4	-	-	0.0	100.0	0.0	-	-	-
Total %	0.0	16.7	22.9	-	39.6	0.0	6.3	29.2	-	35.4	0.0	25.0	0.0	-	25.0	-
PHF	0.000	0.500	0.458	-	0.475	0.000	0.250	0.700	-	0.607	0.000	0.750	0.000	-	0.750	0.632
Lights	0	8	11	-	19	0	3	13	-	16	0	10	0	-	10	45
% Lights	-	100.0	100.0	-	100.0	-	100.0	92.9	-	94.1	-	83.3	-	-	83.3	93.8
Buses	0	0	0	-	0	0	0	0	-	0	0	2	0	-	2	2
% Buses	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	16.7	-	-	16.7	4.2
Single-Unit Trucks	0	0	0	-	0	0	0	1	-	1	0	0	0	-	0	1
% Single-Unit Trucks	-	0.0	0.0	-	0.0	-	0.0	7.1	-	5.9	-	0.0	-	-	0.0	2.1
Articulated Trucks	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Articulated Trucks	-	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
% Bicycles on Road	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.0	-	-	0.0	0.0
Pedestrians	-	-	-	6	-	-	-	-	0	-	-	-	-	2	-	-
% Pedestrians	-	-	-	100.0	-	-	-	-	-	-	-	-	-	100.0	-	-



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Count Name: Pine Avenue with Northerly Access Drive Site Code: Start Date: 08/27/2017 Page No: 5

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		No	rtherly Access D	rive				Pine Avenue					Pine Avenue			
Otant Time			Eastbound					Northbound					Southbound			
Start Time	U-Turn	Left	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	Int. Total
3:00 PM	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3	3
3:15 PM	0	0	1	0	1	0	0	1	1	1	0	8	1	2	9	11
3:30 PM	0	0	0	3	0	0	1	2	0	3	0	9	1	1	10	13
3:45 PM	0	2	0	0	2	0	0	4	0	4	0	2	0	0	2	8
Total	0	2	1	3	3	0	1	7	1	8	0	21	3	3	24	35
Approach %	0.0	66.7	33.3	-	-	0.0	12.5	87.5	-	-	0.0	87.5	12.5	-	-	-
Total %	0.0	5.7	2.9	-	8.6	0.0	2.9	20.0	-	22.9	0.0	60.0	8.6	-	68.6	-
PHF	0.000	0.250	0.250	-	0.375	0.000	0.250	0.438	-	0.500	0.000	0.583	0.750	-	0.600	0.673
Lights	0	2	1	-	3	0	1	7	-	8	0	21	2	-	23	34
% Lights	-	100.0	100.0	-	100.0	-	100.0	100.0	-	100.0	-	100.0	66.7	-	95.8	97.1
Buses	0	0	0	-	0	0	0	0	-	0	0	0	1	-	1	1
% Buses	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.0	33.3	-	4.2	2.9
Single-Unit Trucks	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Single-Unit Trucks	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	0.0
Articulated Trucks	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Articulated Trucks	-	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
% Bicycles on Road	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	0.0
Pedestrians	-	-	-	3	-	-	_	-	1	-	-	-	-	3	-	-
% Pedestrians	-	-	-	100.0	-	-	-	-	100.0	-	-	-	-	100.0	-	-



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

Count Name: Pine Avenue with Southerly Access Drive Site Code: Start Date: 08/27/2017 Page No: 1

		So	utherly Access D	rive		''	mig ivio	Pine Avenue	Julu				Pine Avenue			
Otant Time			Eastbound					Northbound					Southbound			
Start Time	U-Turn	Left	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	Int. Total
9:00 AM	0	0	2	2	2	0	1	0	0	1	0	2	0	0	2	5
9:15 AM	0	6	33	10	39	0	1	4	0	5	0	38	0	0	38	82
9:30 AM	0	0	4	1	4	0	0	1	0	1	0	4	0	0	4	9
9:45 AM	0	0	2	1	2	0	23	5	0	28	0	1	2	0	3	33
Hourly Total	0	6	41	14	47	0	25	10	0	35	0	45	2	0	47	129
10:00 AM	0	0	0	0	0	0	5	3	0	8	0	3	0	0	3	11
10:15 AM	0	0	0	1	0	0	1	2	3	3	0	1	0	0	1	4
10:30 AM	0	0	0	1	0	0	0	1	0	1	0	2	0	0	2	3
10:45 AM	0	0	4	6	4	0	2	3	0	5	0	2	0	0	2	11
Hourly Total	0	0	4	8	4	0	8	9	3	17	0	8	0	0	8	29
11:00 AM	0	17	38	2	55	0	3	1	0	4	0	9	0	0	9	68
11:15 AM	0	0	3	1	3	0	3	1	0	4	0	3	0	0	3	10
11:30 AM	0	0	0	0	0	0	0	1	0	1	0	2	0	0	2	3
11:45 AM	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	1
Hourly Total	0	17	41	4	58	0	6	4	0	10	0	14	0	0	14	82
*** BREAK ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7:30 AM	0	1	1	0	2	1	5	4	0	10	0	5	2	0	7	19
7:45 AM	0	4	11	2	15	0	3	1	0	4	0	7	2	0	9	28
Hourly Total	0	5	12	2	17	1	8	5	0	14	0	12	4	0	16	47
8:00 AM	0	2	4	3	6	0	0	1	0	1	0	7	1	0	8	15
8:15 AM	0	1	3	4	4	0	0	6	0	6	0	5	0	0	5	15
8:30 AM	0	1	2	1	3	0	0	1	0	1	0	2	0	0	2	6
8:45 AM	0	1	0	2	1	0	0	2	0	2	0	2	0	0	2	5
Hourly Total	0	5	9	10	14	0	0	10	0	10	0	16	1	0	17	41
9:00 AM	0	0	1	0	1	0	0	1	0	1	0	2	0	0	2	4
9:15 AM	0	0	0	1	0	0	0	0	0	0	0	1	0	0	1	1
*** BREAK ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hourly Total	0	0	1	1	1	0	0	1	0	1	0	3	0	0	3	5
2:30 PM	0	0	0	0	0	0	0	5	0	5	0	0	0	0	0	5
2:45 PM	0	0	0	0	0	0	0	1	0	1	0	2	0	0	2	3
Hourly Total	0	0	0	0	0	0	0	6	0	6	0	2	0	0	2	8
3:00 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
3:15 PM	0	0	1	0	1	0	1	1	0	2	0	5	2	0	7	10
3:30 PM	0	0	29	14	29	0	0	3	0	3	0	13	0	0	13	45
3:45 PM	0	0	0	0	0	0	0	4	0	4	0	3	0	0	3	7
Hourly Total	0	0	30	14	30	0	1	8	0	9	0	22	2	0	24	63
4:00 PM	0	0	1	0	1	0	0	1	0	1	0	5	1	0	6	8
4:15 PM	0	2	4	0	6	0	3	1	3	4	0	0	0	0	0	10

Grand Total	0	35	143	53	178	1	51	55	6	107	0	127	10	0	137	422
Approach %	0.0	19.7	80.3	-	-	0.9	47.7	51.4	-	-	0.0	92.7	7.3	-	-	-
Total %	0.0	8.3	33.9	-	42.2	0.2	12.1	13.0	-	25.4	0.0	30.1	2.4	-	32.5	-
Lights	0	35	140	-	175	1	51	54	-	106	0	124	10	-	134	415
% Lights	-	100.0	97.9	-	98.3	100.0	100.0	98.2	-	99.1	-	97.6	100.0	-	97.8	98.3
Buses	0	0	2	-	2	0	0	0	-	0	0	2	0	-	2	4
% Buses	-	0.0	1.4	-	1.1	0.0	0.0	0.0	-	0.0	-	1.6	0.0	-	1.5	0.9
Single-Unit Trucks	0	0	0	-	0	0	0	1	-	1	0	0	0	-	0	1
% Single-Unit Trucks	-	0.0	0.0	-	0.0	0.0	0.0	1.8	-	0.9	-	0.0	0.0	-	0.0	0.2
Articulated Trucks	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Articulated Trucks	-	0.0	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	1	-	1	0	0	0	-	0	0	1	0	-	1	2
% Bicycles on Road	-	0.0	0.7	-	0.6	0.0	0.0	0.0	-	0.0	-	0.8	0.0	-	0.7	0.5
Pedestrians	-	-	-	53	-	-	-	-	6	-	-	-	-	0	-	-
% Pedestrians	-	-	-	100.0	_	_	-	-	100.0	-	_	_	_	-	_	_



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Count Name: Pine Avenue with Southerly Access Drive Site Code: Start Date: 08/27/2017 Page No: 3

					running	INIONEILI	enti ca	K I IOUI L	zala ( i i	.uu Aivi)						
		So	utherly Access D	Drive				Pine Avenue					Pine Avenue			
Start Time			Eastbound					Northbound					Southbound			
Start Time	U-Turn	Left	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	Int. Total
11:00 AM	0	17	38	2	55	0	3	1	0	4	0	9	0	0	9	68
11:15 AM	0	0	3	1	3	0	3	1	0	4	0	3	0	0	3	10
11:30 AM	0	0	0	0	0	0	0	1	0	1	0	2	0	0	2	3
11:45 AM	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	1
Total	0	17	41	4	58	0	6	4	0	10	0	14	0	0	14	82
Approach %	0.0	29.3	70.7	-	-	0.0	60.0	40.0	-	-	0.0	100.0	0.0	-	-	-
Total %	0.0	20.7	50.0	-	70.7	0.0	7.3	4.9	-	12.2	0.0	17.1	0.0	-	17.1	-
PHF	0.000	0.250	0.270	-	0.264	0.000	0.500	1.000	-	0.625	0.000	0.389	0.000	-	0.389	0.301
Lights	0	17	41	-	58	0	6	4	-	10	0	14	0	-	14	82
% Lights	-	100.0	100.0	-	100.0	-	100.0	100.0	-	100.0	-	100.0	-	-	100.0	100.0
Buses	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Buses	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.0	-	-	0.0	0.0
Single-Unit Trucks	0	0	0	-	0	0	0	0	-	0	0	0	0	_	0	0
% Single-Unit Trucks	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.0	_	-	0.0	0.0
Articulated Trucks	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Articulated Trucks	-	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
% Bicycles on Road	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.0	-	-	0.0	0.0
Pedestrians	-	-		4	-	-		_	0	-	-	-	_	0	_	-
% Pedestrians	-	-	-	100.0	-	-	_	<u>-</u>	-	-	-	-	-	-	-	-



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

Count Name: Pine Avenue with Southerly Access Drive Site Code: Start Date: 08/27/2017 Page No: 4

					runni	y ivioveri	ilelit i ec	ak i loui l	Dala (1.	-	i					
		So	utherly Access D	Drive				Pine Avenue					Pine Avenue			
Start Time			Eastbound					Northbound					Southbound			
Start Time	U-Turn	Left	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	Int. Total
7:45 AM	0	4	11	2	15	0	3	1	0	4	0	7	2	0	9	28
8:00 AM	0	2	4	3	6	0	0	1	0	1	0	7	1	0	8	15
8:15 AM	0	1	3	4	4	0	0	6	0	6	0	5	0	0	5	15
8:30 AM	0	1	2	1	3	0	0	1	0	1	0	2	0	0	2	6
Total	0	8	20	10	28	0	3	9	0	12	0	21	3	0	24	64
Approach %	0.0	28.6	71.4	-	-	0.0	25.0	75.0	-	-	0.0	87.5	12.5	-	-	-
Total %	0.0	12.5	31.3	-	43.8	0.0	4.7	14.1	-	18.8	0.0	32.8	4.7	-	37.5	-
PHF	0.000	0.500	0.455	-	0.467	0.000	0.250	0.375	-	0.500	0.000	0.750	0.375	-	0.667	0.571
Lights	0	8	20	-	28	0	3	8	-	11	0	19	3	-	22	61
% Lights	-	100.0	100.0	-	100.0	-	100.0	88.9	-	91.7	-	90.5	100.0	-	91.7	95.3
Buses	0	0	0	-	0	0	0	0	-	0	0	2	0	-	2	2
% Buses	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	9.5	0.0	-	8.3	3.1
Single-Unit Trucks	0	0	0	_	0	0	0	1	-	1	0	0	0	-	0	1
% Single-Unit Trucks	-	0.0	0.0	-	0.0	-	0.0	11.1	-	8.3	-	0.0	0.0	-	0.0	1.6
Articulated Trucks	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Articulated Trucks	-	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
% Bicycles on Road	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	0.0
Pedestrians	-	-	-	10	-	-	_	_	0	-	-	-	<u>-</u>	0	_	-
% Pedestrians	-	-	-	100.0	-	-	-	-	-	-	-	-	-	-	-	-



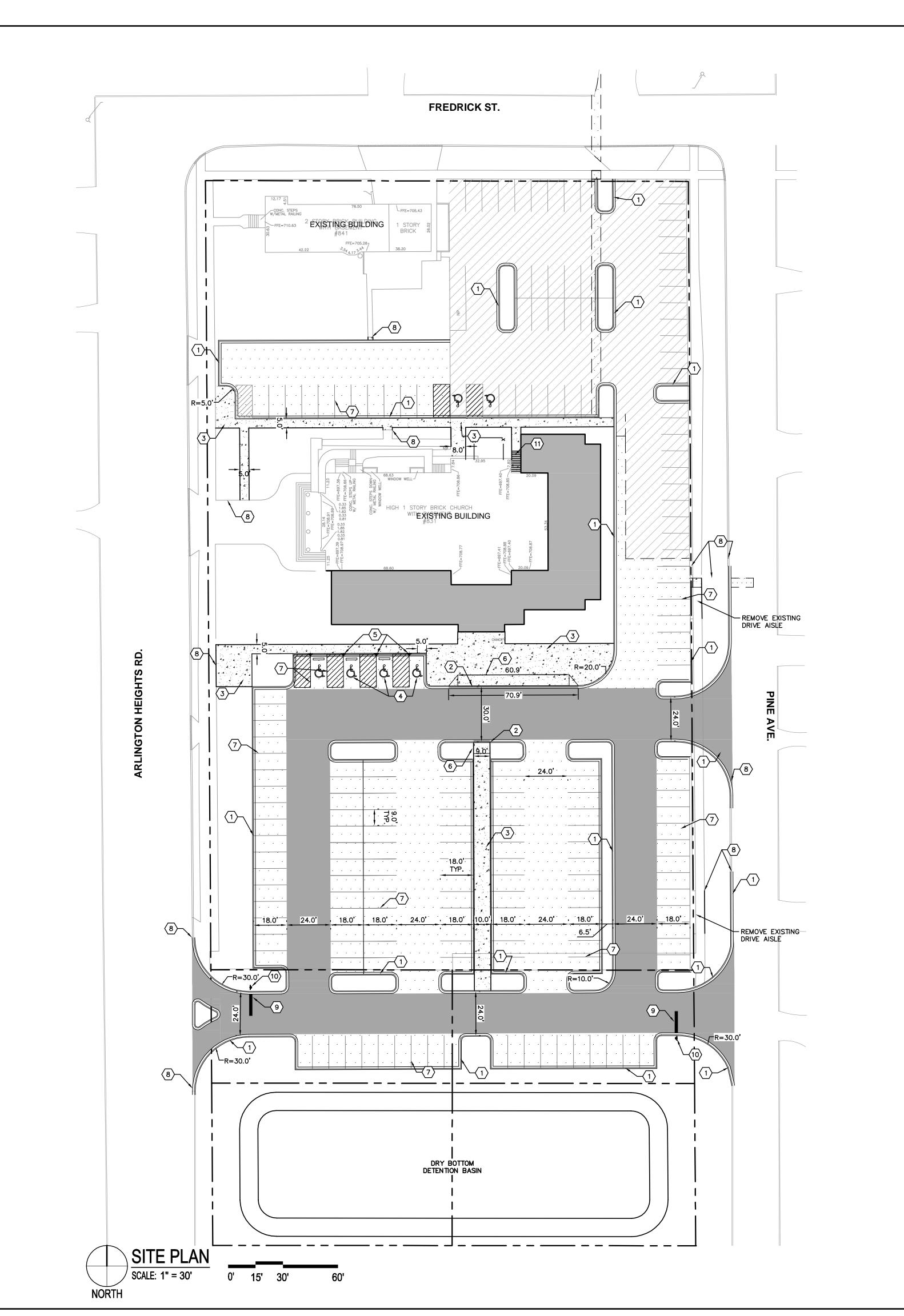
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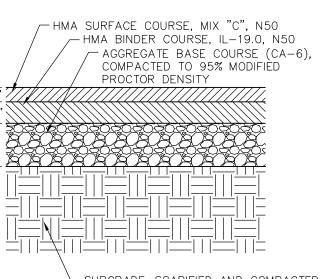
Count Name: Pine Avenue with Southerly Access Drive Site Code: Start Date: 08/27/2017 Page No: 5

	1				runni	inoveni		ak Houl i	Jala (J.	OU FIVI)						ı
		So	utherly Access D	rive				Pine Avenue					Pine Avenue			1
Start Time			Eastbound					Northbound					Southbound			ĺ
Start Time	U-Turn	Left	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	Int. Total
3:00 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
3:15 PM	0	0	1	0	1	0	1	1	0	2	0	5	2	0	7	10
3:30 PM	0	0	29	14	29	0	0	3	0	3	0	13	0	0	13	45
3:45 PM	0	0	0	0	0	0	0	4	0	4	0	3	0	0	3	7
Total	0	0	30	14	30	0	1	8	0	9	0	22	2	0	24	63
Approach %	0.0	0.0	100.0	-	-	0.0	11.1	88.9	-	-	0.0	91.7	8.3	-	-	-
Total %	0.0	0.0	47.6	-	47.6	0.0	1.6	12.7	-	14.3	0.0	34.9	3.2	-	38.1	-
PHF	0.000	0.000	0.259	-	0.259	0.000	0.250	0.500	-	0.563	0.000	0.423	0.250	-	0.462	0.350
Lights	0	0	28	-	28	0	1	8	-	9	0	22	2	-	24	61
% Lights	-	-	93.3	-	93.3	-	100.0	100.0	-	100.0	-	100.0	100.0	-	100.0	96.8
Buses	0	0	2	-	2	0	0	0	-	0	0	0	0	-	0	2
% Buses	-	-	6.7	-	6.7	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	3.2
Single-Unit Trucks	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Single-Unit Trucks	-	-	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	0.0
Articulated Trucks	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Articulated Trucks	-	-	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
% Bicycles on Road	-	-	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	0.0
Pedestrians	-	-	-	14	-	-	-	-	0	-	-	-	-	0	-	-
% Pedestrians	-	-	-	100.0	-	-	-	-	-	-	-	-	-	-	-	-

# Site Plan

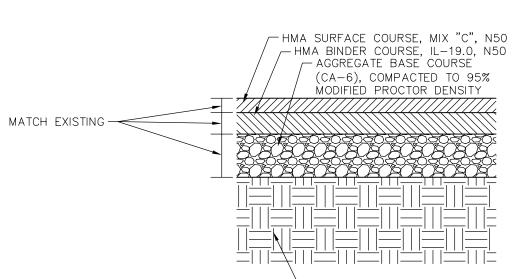






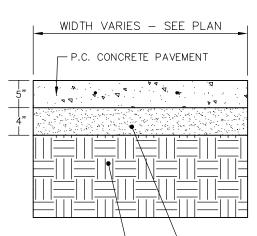
- SUBGRADE-SCARIFIED AND COMPACTED
TO AT LEAST 95% OF THE MODIFIED
PROCTOR MAXIMUM DRY DENSITY

# STANDARD DUTY ASPHALTIC PAVEMENT SECTION N.T.S.



- SUBGRADE-SCARIFIED AND COMPACTED
TO AT LEAST 95% OF THE MODIFIED
PROCTOR MAXIMUM DRY DENSITY

# HEAVY DUTY ASPHALTIC PAVEMENT SECTION



SUBGRADE—SCARIFIED AND COMPACTED —
TO AT LEAST 95% OF THE MODIFIED
PROCTOR MAXIMUM DRY DENSITY

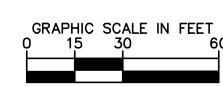
ACTED AGGREGATE BASE COURSE (CA-6),
DDIFIED COMPACTED TO 95% MODIFIED
ENSITY PROCTOR DENSITY

- ALL SIDEWALK SHALL BE CONSTRUCTED WITH CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI AT 14 DAYS.
   PROVIDE 1/2" EXPANSION JOINTS AT 20', MAXIMUM, SPACING AND FILLED WITH PREMOLDED BITUMINOUS EXPANSION JOINT FILLER MATERIAL OR REDWOOD. EXPANSION JOINTS SHALL HAVE #4 DOWELS, LUBRICATED, 18" LONG, AT 12" CENTERS, 6" FROM EDGE.
- 3. PROVIDE 3/8" GROOVED CONTROL JOINTS AT 5' CENTERS.4. WELDED WIRE FABRIC (6X6-6X6) SHALL BE INSTALLED THROUGH DRIVEWAYS AT 2" ABOVE SLAB BOTTOM.
- 5. PROVIDE 1/2" BITUMINOUS EXPANSION JOINT FILLER MATERIAL WHERE WALK ABUTS EXISTING IMPROVEMENTS AND AT ALL CHANGES IN GRADE

  6. USE 2-#4 REINFORCING BARS 10' LONG OVER ALL LITTLITY TRENCHES FOR NEW
- 6. USE 2-#4 REINFORCING BARS, 10' LONG OVER ALL UTILITY TRENCHES FOR NEW SIDEWALK AND CONNECTIONS TO EXISTING SIDEWALK.
  7. AT DRIVE APPROACHES, SIDEWALK PCC AND BASE THICKNESS SHALL MATCH THAT OF

CONCRETE SIDEWALK









## **KEY NOTES**

- B6.12 CONCRETE CURB AND GUTTER, TYP. (SEE DETAILS)
- 2 DEPRESSED CURB AND GUTTER
- 3 CONCRETE SIDEWALK, TYP. (SEE DETAILS)
- 4 ACCESSIBLE PAVEMENT MARKINGS, TYP. (SEE DETAILS)

  5 ACCESSIBLE PARKING SIGN, TYP. (MUTCD R7-8, SEE DETAILS)
- 6 ACCESSIBLE RAMP (SEE DETAILS)

11) PROPOSED STAIRS

- $\overline{\langle 7 \rangle}$  4" WIDE PAINTED WHITE SOLID LINE, TYP.
- (8) CONNECT TO EXISTING PAVEMENT, SIDEWALK, CURB, TYP.
- 9 24" WIDE STOP BAR, TYP. (SEE DETAILS)
- 10 STOP SIGN, TYP. (MUTCD R1-1, SEE DETAILS)

ALL DIMENSIONS REFER TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
 BUILDING DIMENSIONS ARE TO THE OUTSIDE FACE OF BUILDING UNLESS OTHERWISE NOTED.

**GENERAL NOTES** 

- REFER TO ARCHITECTURAL AND STRUCTURAL PLANS TO VERIFY ALL BUILDING
- 4. RADII ADJACENT TO PARKING STALL AND NOT DIMENSIONED ON THIS PLAN SHALL BE 3-FEET, TYPICAL.
- 5. REFER TO ARCHITECTURAL PLANS FOR MONUMENT SIGN DETAILS. SEE MEP PLANS FOR SITE ELECTRICAL DRAWINGS.
- 6. ALL PROPOSED ON-SITE STRIPING SHALL BE PAINTED UNLESS OTHERWISE

# PAVING AND CURB LEGEND

STANDARD DUTY ASPHALT PAVEMENT
SEE DETAIL THIS SHEET FOR PAVEMENT SECTION

HEAVY DUTY ASPHALT PAVEMENT
SEE DETAIL THIS SHEET FOR PAVEMENT SECTION

CONCRETE SIDEWALK
SEE DETAIL THIS SHEET FOR PAVEMENT SECTION
\*SEE ARCHITECTURAL PLANS FOR SCOURING PATTERN

STANDARD DUTY ASPHALT MILL & OVERLAY VARIABLE DEPTH, SEE DETAILS

STANDARD PITCH CONCRETE CURB AND GUTTER

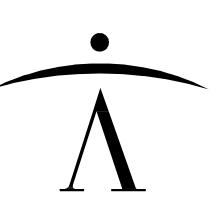
REVERSE PITCH CONCRETE CURB AND GUTTER

CONCRETE DEPRESSED CURB AND GUTTER

# PARKING SUMMARY

PARKING SPACES PROVIDED
ACCESSIBLE PARKING SPACES REQUIRED
ACCESSIBLE PARKING SPACES PROVIDED
TOTAL PARKING SPACES PROVIDED

= 180 SPACES = 6 SPACES = 6 SPACES = 186 SPACES



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(630) 420-1600 FAX (630) 420-1987 www.newmanarchitecture.com

Participating Consultants:

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1001 WARRENVILLE ROAD, SUITE 350,
LISLE, IL 60532
PHONE: 630-487-5550
WWW.KIMLEY-HORN.COM

Project Name:

CHURCH ADDITION AND RENOVATION

820 N ARLINGTON HEIGHTS ROAD ARLINGTON HEIGHTS, IL 60004

OR

ST. JAMES PARISH & ARCHDIOCESE OF CHICAGO

Engineer's Certification:

FOR REVIEW ONLY
Not for construction or permit purposes.

Kimley» Horn Kimley-Horn and Associates, Inc.

Engineer ANDREW N. HEINEN

P.E. No. 062-056317 Date 9/30/2015

License: Illinois Registration No. 062-05680

Expires: 11/30/15

.- ..

No. Date Description

Drawing Title:

PRELIMINARY

SITE PLAN

Project No.: 168144008 Date: 08/11/17

C2.0

### CMAP 2040 Projections Letter





233 South Wacker Drive Suite 800 Chicago, Illinois 60606

312 454 0400 www.cmap.illinois.gov

September 20, 2017

Brendan S. May Consultant Kenig, Lindgren, O'Hara and Aboona, Inc. 9575 West Higgins Road Suite 400 Rosemont, IL 60018

Subject: Arlington Heights Road @ Frederick Street

IDOT

Dear Mr. May:

In response to a request made on your behalf and dated September 20, 2017, we have developed year 2040 average daily traffic (ADT) projections for the subject location.

ROAD SEGMENT	Current ADT	Year 2040 ADT
Arlington Heights Rd, @ Frederick St	22,000	24,700

Traffic projections are developed using existing ADT data provided in the request letter and the results from the March 2017 CMAP Travel Demand Analysis. The regional travel model uses CMAP 2040 socioeconomic projections and assumes the implementation of the GO TO 2040 Comprehensive Regional Plan for the Northeastern Illinois area.

If you have any questions, please call me at (312) 386-8806.

Sincerely,

Jose Rodriguez, PTP, AICP

Senior Planner, Research & Analysis

cc: Quigley (IDOT)

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### Level of Service Criteria



#### LEVEL OF SERVICE CRITERIA

LEVEL OF SI	ERVICE CRITERIA Signalized Int	ersections	
Level of Service			Average Control Delay
A	Interpretation Favorable progression. Most vehi		(seconds per vehicle) ≤10
	green indication and travel through t stopping.	0	
В	Good progression, with more vehi Level of Service A.	cles stopping than for	>10 - 20
С	Individual cycle failures (i.e., one or are not able to depart as a result of during the cycle) may begin to appea stopping is significant, although m through the intersection without stop	of insufficient capacity ar. Number of vehicles any vehicles still pass	>20 - 35
D	The volume-to-capacity ratio is high is ineffective or the cycle length is to stop and individual cycle failures are	oo long. Many vehicles	>35 - 55
Е	Progression is unfavorable. The vois high and the cycle length is lofailures are frequent.	<u> </u>	>55 - 80
F	The volume-to-capacity ratio is very poor, and the cycle length is loclear the queue.		>80.0
	Unsignalized In	tersections	
	Level of Service	Average Total Del	lay (SEC/VEH)
	A	0 -	10
	В	> 10 -	15
	С	> 15 -	25
	D	> 25 -	35
	Е	> 35 -	50
	F	> 50	0
Source: Highw	ay Capacity Manual, 2010.		



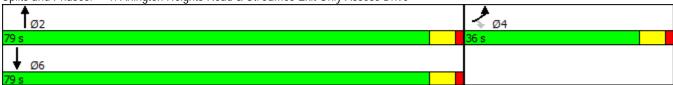
**Capacity Analysis Summary Sheets** 



	•	•	4	<b>†</b>	ļ	4
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	<u> </u>	Į.	NDL	<u>ND1</u>	<u> </u>	ODIN
Traffic Volume (vph)	79	90	0	<b>T</b> 592	<b>T</b> 707	0
Future Volume (vph)	79	90	0	592	707	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Width (ft)	1900	1900	1900	1900	1900	1900
Grade (%)	0%	12	12	0%	0%	12
Storage Length (ft)	0.78	0	0	0 70	0 70	0
Storage Lanes	1	1	0			0
Taper Length (ft)	25	ľ	25			U
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor	1.00	0.76	1.00	1.00	1.00	1.00
Frt		0.76				
Fit Protected	0.950	0.650				
		1/15	0	1402	1710	0
Satd. Flow (prot)	1805	1615	0	1693	1710	0
Flt Permitted	0.950	1000	0	1/00	1710	0
Satd. Flow (perm)	1805	1229	0	1693	1710	0
Right Turn on Red		No				No
Satd. Flow (RTOR)	0.5			20	20	
Link Speed (mph)	25			30	30	
Link Distance (ft)	471			160	300	
Travel Time (s)	12.8	70	2.	3.6	6.8	2.4
Confl. Peds. (#/hr)		70	34			34
Confl. Bikes (#/hr)		0.00	0.01	4	0.01	0.01
Peak Hour Factor	0.26	0.29	0.91	1.00	0.86	0.86
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	0%	0%	0%	1%	0%	0%
Bus Blockages (#/hr)	0	0	0	0	0	0
Parking (#/hr)				0	0	
Mid-Block Traffic (%)	0%			0%	0%	
Shared Lane Traffic (%)						
Lane Group Flow (vph)	304	310	0	592	822	0
Turn Type	Prot	Perm		NA	NA	
Protected Phases	4			2	6	
Permitted Phases		4				
Detector Phase	4	4		2	6	
Switch Phase						
Minimum Initial (s)	4.0	4.0		15.0	5.0	
Minimum Split (s)	24.0	24.0		24.0	24.0	
Total Split (s)	36.0	36.0		79.0	79.0	
Total Split (%)	31.3%	31.3%		68.7%	68.7%	
Yellow Time (s)	4.5	4.5		4.5	4.5	
All-Red Time (s)	1.5	1.5		1.5	1.5	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0	
Total Lost Time (s)	6.0	6.0		6.0	6.0	
Lead/Lag						
Lead-Lag Optimize?						
Recall Mode	None	None		Min	Min	
Act Effct Green (s)	29.6	29.6		65.8	65.8	
Actuated g/C Ratio	0.28	0.28		0.61	0.61	
nciualeu y/o Rallu	0.20	0.20		0.01	0.01	

	•	$\rightarrow$	•	<b>†</b>	ļ	✓
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
v/c Ratio	0.61	0.92		0.57	0.79	
Control Delay	42.0	72.8		14.8	21.9	
Queue Delay	0.0	0.0		0.0	0.0	
Total Delay	42.0	72.8		14.8	21.9	
LOS	D	Е		В	С	
Approach Delay	57.6			14.8	21.9	
Approach LOS	Е			В	С	
Queue Length 50th (ft)	201	227		228	396	
Queue Length 95th (ft)	71	85		324	515	
Internal Link Dist (ft)	391			80	220	
Turn Bay Length (ft)						
Base Capacity (vph)	509	347		1163	1175	
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	0.60	0.89		0.51	0.70	
Intersection Summary						
Area Type:	Other					
Cycle Length: 115						
Actuated Cycle Length: 10	7.5					
Natural Cycle: 65						
Control Type: Actuated-Un	coordinated					
Maximum v/c Ratio: 0.92						
Intersection Signal Delay: 3					tersection	
Intersection Capacity Utiliza	ation 61.8%			IC	U Level o	f Service B

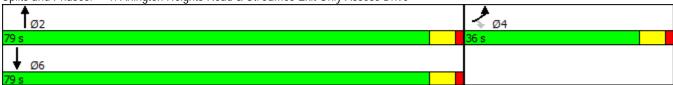
Splits and Phases: 1: Arlington Heights Road & St. James Exit Only Access Drive



	•	``	ı	*	₹
FBI	EBR	NBI	NBT	SBT	SBR
		IVDE			ODI
		0			0
					0
					1900
					1900
	12	12			12
	0	Λ	0 70	070	0
					0
					U
	1.00		0.05	0 05	1.00
1.00		1.00	0.95	0.90	1.00
0.050	0.850				
	1/15	_	0.400	0.474	•
	1615	0	3438	34/1	0
		_			
1805		0	3438	3471	0
	No				No
12.8			3.6	6.8	
	85	2			2
0.45	0.40	0.90	0.90	0.84	0.84
100%	100%	100%	100%	100%	100%
0%	0%	0%	5%	4%	0%
0	0	0	0	0	0
0%			0%	0%	
209	220	0	741	1348	0
	1 01111				
4	1			U	
Λ			2	6	
4	4			U	
4.0	4.0		15.0	ΕO	
6.0	6.0		6.0	6.0	
None	None		Min	Min	
23.2	23.2		73.2	73.2	
			0.68	0.68	
	0.45 100% 0% 0 0 0% 209 Prot 4 4 4.0 24.0 36.0 31.3% 4.5 1.5 0.0 6.0	94 88 94 98 1900 1900 12 12 0% 0 0 1 1 1 25 1.00 1.00 0.83 0.850 0.950 1805 1615 0.950 1805 1338 No  25 471 12.8 85  0.45 0.40 100% 0% 0 0 0% 0 0 0%  209 220 Prot Perm 4 4 4 4 4 4 4 4.0 4.0 24.0 24.0 36.0 36.0 31.3% 4.5 4.5 1.5 1.5 0.0 0.0 6.0 6.0  None 23.2 23.2	94 88 0 94 88 0 1900 1900 1900 12 12 12 12 0% 0 0 0 0 1 1 1 0 25 25 1.00 1.00 1.00 0.83 0.850 0.950 1805 1615 0 0.950 1805 1338 0 No  25 471 12.8 85 2  0.45 0.40 0.90 100% 100% 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 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	94 88 0 667 94 88 0 667 1900 1900 1900 1900 12 12 12 12 12 0%	N         P         PA         PA           94         88         0         667         1132           1900         1900         1900         1900         1900           12         12         12         12         12           0%         0         0         0         0           1         1         0         0.95         0.95           0.83         0.850         0.83         0.95         0.95           1805         1615         0         3438         3471           0.950         0.850         0.95         0.95           1805         1615         0         3438         3471           0.950         1338         0         3438         3471           0.950         1338         0         3438         3471           0.950         1338         0         3438         3471           12.8         3.6         6.8         85         2           0.45         0.40         0.90         0.90         0.84           100%         100%         100%         100%           0%         0         0         0

	•	•	•	<b>†</b>	ļ	4
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
v/c Ratio	0.54	0.77		0.32	0.58	
Control Delay	43.0	58.2		8.4	11.3	
Queue Delay	0.0	0.0		0.0	0.0	
Total Delay	43.0	58.2		8.4	11.3	
LOS	D	Е		Α	В	
Approach Delay	50.8			8.4	11.3	
Approach LOS	D			Α	В	
Queue Length 50th (ft)	130	144		102	238	
Queue Length 95th (ft)	92	88		158	314	
Internal Link Dist (ft)	391			80	220	
Turn Bay Length (ft)						
Base Capacity (vph)	501	371		2321	2344	
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	0.42	0.59		0.32	0.58	
Intersection Summary						
Area Type:	Other					
Cycle Length: 115						
Actuated Cycle Length: 10	)8.4					
Natural Cycle: 60						
Control Type: Actuated-Ur	ncoordinated					
Maximum v/c Ratio: 0.77						
Intersection Signal Delay:	17.2			In	tersection	LOS: B
Intersection Capacity Utiliz	zation 56.1%			IC	U Level o	of Service B

Splits and Phases: 1: Arlington Heights Road & St. James Exit Only Access Drive



	٠	•	4	<b>†</b>	ļ	4
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	ኘ	7		<b>†</b> †	<b>†</b> †	
Traffic Volume (vph)	53	54	0	819	915	0
Future Volume (vph)	53	54	0	819	915	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
	1900	1900	1900	1900	1900	1900
Lane Width (ft)		12	12			12
Grade (%)	0%	0	0	0%	0%	0
Storage Length (ft)	0	0	0			0
Storage Lanes	1	1	0			0
Taper Length (ft)	25		25			
Lane Util. Factor	1.00	1.00	1.00	0.95	0.95	1.00
Ped Bike Factor		0.69				
Frt		0.850				
Flt Protected	0.950					
Satd. Flow (prot)	1805	1615	0	3539	3471	0
Flt Permitted	0.950					
Satd. Flow (perm)	1805	1108	0	3539	3471	0
Right Turn on Red	1000	No		0007	0171	No
Satd. Flow (RTOR)		INO				INU
Link Speed (mph)	25			30	30	
	471			160	300	
Link Distance (ft)						
Travel Time (s)	12.8	157		3.6	6.8	
Confl. Peds. (#/hr)		157				
Confl. Bikes (#/hr)						
Peak Hour Factor	0.55	0.41	0.91	0.91	0.93	0.93
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	0%	0%	0%	2%	4%	0%
Bus Blockages (#/hr)	0	0	0	0	0	0
Parking (#/hr)						
Mid-Block Traffic (%)	0%			0%	0%	
Shared Lane Traffic (%)						
Lane Group Flow (vph)	96	132	0	900	984	0
Turn Type	Prot	Perm	U	NA	NA	U
Protected Phases	4	I CIIII		2	6	
	4	4		Z	Ü	
Permitted Phases	4	•		2	,	
Detector Phase	4	4		2	6	
Switch Phase						
Minimum Initial (s)	4.0	4.0		15.0	5.0	
Minimum Split (s)	24.0	24.0		24.0	24.0	
Total Split (s)	36.0	36.0		94.0	94.0	
Total Split (%)	27.7%	27.7%		72.3%	72.3%	
Yellow Time (s)	4.5	4.5		4.5	4.5	
All-Red Time (s)	1.5	1.5		1.5	1.5	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0	
Total Lost Time (s)	6.0	6.0		6.0	6.0	
Lead/Lag	0,0	0.0		0.0	0.0	
Lead-Lag Optimize?						
Recall Mode	Mono	None		Min	Min	
	None			Min		
Act Effct Green (s)	19.1	19.1		74.2	74.2	
Actuated g/C Ratio	0.18	0.18		0.70	0.70	

	•	$\rightarrow$	•	<b>†</b>	ţ	✓
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
v/c Ratio	0.30	0.66		0.36	0.41	
Control Delay	43.3	60.2		7.2	7.6	
Queue Delay	0.0	0.0		0.0	0.0	
Total Delay	43.3	60.2		7.2	7.6	
LOS	D	Е		Α	Α	
Approach Delay	53.1			7.2	7.6	
Approach LOS	D			Α	Α	
Queue Length 50th (ft)	66	98		116	131	
Queue Length 95th (ft)	69	68		194	220	
Internal Link Dist (ft)	391			80	220	
Turn Bay Length (ft)						
Base Capacity (vph)	541	332		2913	2857	
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	0.18	0.40		0.31	0.34	
Intersection Summary						
Area Type:	Other					
Cycle Length: 130						
Actuated Cycle Length: 10	06.1					
Natural Cycle: 50						
Control Type: Actuated-U	ncoordinated					
Maximum v/c Ratio: 0.66						
Intersection Signal Delay:	12.3			In	tersection	LOS: B
Intersection Capacity Utili	zation 50.3%			IC	CU Level c	f Service A

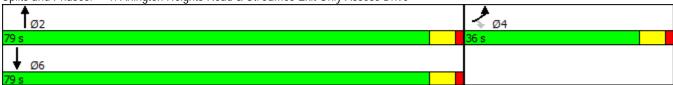
Splits and Phases: 1: Arlington Heights Road & St. James Exit Only Access Drive



	۶	•	4	<b>†</b>	ļ	4
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	ኘ	7		<u> </u>	<u> </u>	
Traffic Volume (vph)	62	69	0	631	706	0
Future Volume (vph)	62	69	0	631	706	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Width (ft)	1900	1700	1700	1700	1700	1700
Grade (%)	0%	12	12	0%	0%	12
Storage Length (ft)	078	0	0	0 70	070	0
Storage Lanes	1	1	0			0
Taper Length (ft)	25		25			U
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
	1.00		1.00	1.00	1.00	1.00
Ped Bike Factor		0.76				
Frt	0.050	0.850				
Flt Protected	0.950			4.00	.=	
Satd. Flow (prot)	1805	1615	0	1693	1710	0
Flt Permitted	0.950					
Satd. Flow (perm)	1805	1229	0	1693	1710	0
Right Turn on Red		No				No
Satd. Flow (RTOR)						
Link Speed (mph)	25			30	30	
Link Distance (ft)	471			160	217	
Travel Time (s)	12.8			3.6	4.9	
Confl. Peds. (#/hr)		70	34			34
Confl. Bikes (#/hr)						
Peak Hour Factor	0.26	0.29	0.91	1.00	0.86	0.86
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	0%	0%	0%	1%	0%	0%
Bus Blockages (#/hr)	0	0	0	0	0	0
Parking (#/hr)	0	U	- U	0	0	U
Mid-Block Traffic (%)	0%			0%	0%	
` '	0 /0			0 /0	0 /0	
Shared Lane Traffic (%)	220	220	0	/ 21	021	0
Lane Group Flow (vph)	238	238	0	631	821	0
Turn Type	Prot	Perm		NA	NA	
Protected Phases	4			2	6	
Permitted Phases		4				
Detector Phase	4	4		2	6	
Switch Phase						
Minimum Initial (s)	4.0	4.0		15.0	5.0	
Minimum Split (s)	24.0	24.0		24.0	24.0	
Total Split (s)	36.0	36.0		79.0	79.0	
Total Split (%)	31.3%	31.3%		68.7%	68.7%	
Yellow Time (s)	4.5	4.5		4.5	4.5	
All-Red Time (s)	1.5	1.5		1.5	1.5	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0	
Total Lost Time (s)	6.0	6.0		6.0	6.0	
Lead/Lag	0.0	0.0		0.0	0.0	
Lead-Lag Optimize?						
Recall Mode	None	Mono		Min	Min	
	None	None		Min		
Act Effct Green (s)	24.6	24.6		63.5	63.5	
Actuated g/C Ratio	0.24	0.24		0.63	0.63	

	٠	$\rightarrow$	•	<b>†</b>	ļ	4
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
v/c Ratio	0.54	0.80		0.59	0.76	
Control Delay	40.0	57.9		14.1	19.4	
Queue Delay	0.0	0.0		0.0	0.0	
Total Delay	40.0	57.9		14.1	19.4	
LOS	D	Е		В	В	
Approach Delay	48.9			14.1	19.4	
Approach LOS	D			В	В	
Queue Length 50th (ft)	150	162		240	377	
Queue Length 95th (ft)	58	66		359	514	
Internal Link Dist (ft)	391			80	137	
Turn Bay Length (ft)						
Base Capacity (vph)	562	383		1251	1264	
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	0.42	0.62		0.50	0.65	
Intersection Summary						
Area Type:	Other					
Cycle Length: 115						
Actuated Cycle Length: 1	00.6					
Natural Cycle: 65						
Control Type: Actuated-U	ncoordinated					
Maximum v/c Ratio: 0.80						
Intersection Signal Delay:					tersection	
Intersection Capacity Utili	zation 61.6%			IC	U Level c	of Service B

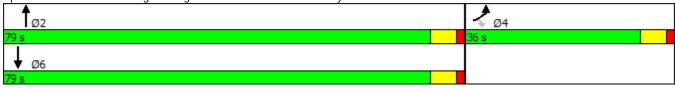
Splits and Phases: 1: Arlington Heights Road & St. James Exit Only Access Drive



	٠	•	4	<b>†</b>	ļ	4
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	ሻ	Į.	NDL	<b>↑</b> ↑	<b>^</b>	ODIN
Traffic Volume (vph)	94	88	0	688	<b>1168</b>	0
Future Volume (vph)	94	88	0	688	1168	0
` ' '	1900	1900	1900	1900	1900	1900
Ideal Flow (vphpl)						
Lane Width (ft)	12	12	12	12	12	12
Grade (%)	0%	0	0	0%	0%	0
Storage Length (ft)	0	0	0			0
Storage Lanes	1	1	0			0
Taper Length (ft)	25		25			
Lane Util. Factor	1.00	1.00	1.00	0.95	0.95	1.00
Ped Bike Factor		0.83				
Frt		0.850				
Flt Protected	0.950					
Satd. Flow (prot)	1805	1615	0	3438	3471	0
Flt Permitted	0.950					
Satd. Flow (perm)	1805	1338	0	3438	3471	0
Right Turn on Red		No				No
Satd. Flow (RTOR)						
Link Speed (mph)	25			30	30	
Link Distance (ft)	471			160	300	
Travel Time (s)	12.8			3.6	6.8	
Confl. Peds. (#/hr)	12.0	85	2	3.0	0.0	2
Confl. Bikes (#/hr)		05	2			2
, ,	0.45	0.40	0.00	0.00	0.04	0.04
Peak Hour Factor	0.45	0.40	0.90	0.90	0.84	0.84
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	0%	0%	0%	5%	4%	0%
Bus Blockages (#/hr)	0	0	0	0	0	0
Parking (#/hr)						
Mid-Block Traffic (%)	0%			0%	0%	
Shared Lane Traffic (%)						
Lane Group Flow (vph)	209	220	0	764	1390	0
Turn Type	Prot	Perm		NA	NA	
Protected Phases	4			2	6	
Permitted Phases		4				
Detector Phase	4	4		2	6	
Switch Phase	7	T			<u> </u>	
Minimum Initial (s)	4.0	4.0		15.0	5.0	
• • • • • • • • • • • • • • • • • • • •	24.0	24.0		24.0	24.0	
Minimum Split (s)						
Total Split (s)	36.0	36.0		79.0	79.0	
Total Split (%)	31.3%	31.3%		68.7%	68.7%	
Yellow Time (s)	4.5	4.5		4.5	4.5	
All-Red Time (s)	1.5	1.5		1.5	1.5	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0	
Total Lost Time (s)	6.0	6.0		6.0	6.0	
Lead/Lag						
Lead-Lag Optimize?						
Recall Mode	None	None		Min	Min	
Act Effct Green (s)	23.2	23.2		73.2	73.2	
Actuated g/C Ratio	0.21	0.21		0.68	0.68	
notuated y/o Natio	U.Z I	U.Z I		0.00	0.00	

	•	•	•	<b>†</b>	ļ	✓
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
v/c Ratio	0.54	0.77		0.33	0.59	
Control Delay	43.0	58.2		8.4	11.6	
Queue Delay	0.0	0.0		0.0	0.0	
Total Delay	43.0	58.2		8.4	11.6	
LOS	D	Е		Α	В	
Approach Delay	50.8			8.4	11.6	
Approach LOS	D			Α	В	
Queue Length 50th (ft)	130	144		106	251	
Queue Length 95th (ft)	92	88		164	330	
Internal Link Dist (ft)	391			80	220	
Turn Bay Length (ft)						
Base Capacity (vph)	501	371		2321	2344	
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	0.42	0.59		0.33	0.59	
Intersection Summary						
Area Type:	Other					
Cycle Length: 115						
Actuated Cycle Length: 1	08.4					
Natural Cycle: 60						
Control Type: Actuated-U	ncoordinated					
Maximum v/c Ratio: 0.77						
Intersection Signal Delay:					tersection	
Intersection Capacity Utili	zation 57.0%			IC	U Level c	f Service B

Splits and Phases: 1: Arlington Heights Road & St. James Exit Only Access Drive



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Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	ች	7		<b>^</b>	<b>†</b> †	
Traffic Volume (vph)	53	54	0	845	944	0
Future Volume (vph)	53	54	0	845	944	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12
Grade (%)	0%	12	12	0%	0%	12
Storage Length (ft)	0	0	0	070	070	0
Storage Lanes	1	1	0			0
Taper Length (ft)	25	ı	25			U
Lane Util. Factor	1.00	1.00	1.00	0.95	0.95	1.00
Ped Bike Factor	1.00	0.69	1.00	0.93	0.93	1.00
Frt Elt Droto stad	0.050	0.850				
Flt Protected	0.950	1/15	0	2520	2474	^
Satd. Flow (prot)	1805	1615	0	3539	3471	0
Flt Permitted	0.950		_	6===	6.5	
Satd. Flow (perm)	1805	1108	0	3539	3471	0
Right Turn on Red		No				No
Satd. Flow (RTOR)						
Link Speed (mph)	25			30	30	
Link Distance (ft)	471			160	300	
Travel Time (s)	12.8			3.6	6.8	
Confl. Peds. (#/hr)		157				
Confl. Bikes (#/hr)						
Peak Hour Factor	0.55	0.41	0.91	0.91	0.93	0.93
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	0%	0%	0%	2%	4%	0%
Bus Blockages (#/hr)	0	0	0	0	0	0
Parking (#/hr)	, ,	, ,				
Mid-Block Traffic (%)	0%			0%	0%	
Shared Lane Traffic (%)	070			070	070	
Lane Group Flow (vph)	96	132	0	929	1015	0
Turn Type	Prot	Perm	U	NA	NA	U
Protected Phases		Peilli				
	4	1		2	6	
Permitted Phases	A	4		2	,	
Detector Phase	4	4		2	6	
Switch Phase				45.0		
Minimum Initial (s)	4.0	4.0		15.0	5.0	
Minimum Split (s)	24.0	24.0		24.0	24.0	
Total Split (s)	36.0	36.0		94.0	94.0	
Total Split (%)	27.7%	27.7%		72.3%	72.3%	
Yellow Time (s)	4.5	4.5		4.5	4.5	
All-Red Time (s)	1.5	1.5		1.5	1.5	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0	
Total Lost Time (s)	6.0	6.0		6.0	6.0	
Lead/Lag						
Lead-Lag Optimize?						
Recall Mode	None	None		Min	Min	
Act Effct Green (s)	19.3	19.3		75.9	75.9	
Actuated g/C Ratio	0.18	0.18		0.70	0.70	
Actuated 9/C Ratio	U. 18	U. IÖ		0.70	0.70	

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Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
v/c Ratio	0.30	0.67		0.37	0.42	
Control Delay	43.6	61.1		7.3	7.7	
Queue Delay	0.0	0.0		0.0	0.0	
Total Delay	43.6	61.1		7.3	7.7	
LOS	D	Е		Α	Α	
Approach Delay	53.7			7.3	7.7	
Approach LOS	D			Α	Α	
Queue Length 50th (ft)	66	98		121	138	
Queue Length 95th (ft)	69	68		202	230	
Internal Link Dist (ft)	391			80	220	
Turn Bay Length (ft)						
Base Capacity (vph)	526	323		2894	2838	
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	0.18	0.41		0.32	0.36	
Intersection Summary						
Area Type:	Other					
Cycle Length: 130						
Actuated Cycle Length: 10	07.8					
Natural Cycle: 50						
Control Type: Actuated-Ur	ncoordinated					
Maximum v/c Ratio: 0.67						
Intersection Signal Delay:	12.3			In	tersection	LOS: B
Intersection Capacity Utiliz	zation 51.1%			IC	U Level c	of Service A

Splits and Phases: 1: Arlington Heights Road & St. James Exit Only Access Drive



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Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations				ર્ન	∱•	
Traffic Volume (veh/h)	0	0	71	578	729	65
Future Volume (Veh/h)	0	0	71	578	729	65
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.50	0.50	0.55	0.92	0.70	0.49
Hourly flow rate (vph)	0	0	129	628	1041	133
Pedestrians	26					
Lane Width (ft)	0.0					
Walking Speed (ft/s)	3.5					
Percent Blockage	0					
Right turn flare (veh)						
Median type				None	None	
Median storage veh)						
Upstream signal (ft)					382	
pX, platoon unblocked	0.57	0.57	0.57			
vC, conflicting volume	2020	1134	1200			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	2415	855	972			
tC, single (s)	6.4	6.2	4.1			
tC, 2 stage (s)	0	0.2				
tF (s)	3.5	3.3	2.2			
p0 queue free %	100	100	68			
cM capacity (veh/h)	14	205	407			
			107			
Direction, Lane #	NB 1	SB 1				
Volume Total	757	1174				
Volume Left	129	0				
Volume Right	0	133				
cSH	407	1700				
Volume to Capacity	0.32	0.69				
Queue Length 95th (ft)	33	0				
Control Delay (s)	10.5	0.0				
Lane LOS	В					
Approach Delay (s)	10.5	0.0				
Approach LOS						
Intersection Summary						
Average Delay			4.1			
Intersection Capacity Utiliz	zation		83.5%	IC	:U Level o	f Service
Analysis Period (min)			15			
arjoio i oriou (iiiii)			10			

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Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		1>			414
Traffic Volume (veh/h)	9	12	633	22	7	691
Future Volume (Veh/h)	9	12	633	22	7	691
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.79	0.79	0.79	0.79	0.79	0.79
Hourly flow rate (vph)	11	15	801	28	9	875
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type			None			None
Median storage veh)						
Upstream signal (ft)			300			
pX, platoon unblocked	0.74	0.74			0.74	
vC, conflicting volume	1270	815			829	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	1192	580			599	
tC, single (s)	6.8	6.9			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	92	96			99	
cM capacity (veh/h)	135	344			736	
Direction, Lane #	WB 1	NB 1	SB 1	SB 2		
Volume Total	26	829	301	583		
Volume Left	11	029	9	0		
	15	28	0	0		
Volume Right cSH	207	1700	736	1700		
	0.13	0.49	0.01	0.34		
Volume to Capacity	11		0.01			
Queue Length 95th (ft)		0		0		
Control Delay (s)	24.8	0.0	0.4	0.0		
Lane LOS	C	0.0	Α 0.1			
Approach LOS	24.8 C	0.0	0.1			
Approach LOS	C					
Intersection Summary						
Average Delay			0.4			
Intersection Capacity Utilization	on		44.6%	IC	U Level o	of Service
Analysis Period (min)			15			

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	7	19	2	2	11	0	7	18	3	0	3	3
Future Volume (vph)	7	19	2	2	11	0	7	18	3	0	3	3
Peak Hour Factor	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
Hourly flow rate (vph)	17	46	5	5	27	0	17	44	7	0	7	7
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total (vph)	68	32	68	14								
Volume Left (vph)	17	5	17	0								
Volume Right (vph)	5	0	7	7								
Hadj (s)	0.01	0.03	-0.01	-0.30								
Departure Headway (s)	4.1	4.2	4.1	3.9								
Degree Utilization, x	0.08	0.04	0.08	0.02								
Capacity (veh/h)	852	839	844	895								
Control Delay (s)	7.5	7.3	7.5	6.9								
Approach Delay (s)	7.5	7.3	7.5	6.9								
Approach LOS	Α	Α	Α	Α								
Intersection Summary												
Delay			7.4									
Level of Service			А									
Intersection Capacity Utilizat	tion		18.9%	IC	:U Level o	of Service			Α			
Analysis Period (min)			15									

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Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W		f)			ર્ન
Traffic Volume (veh/h)	1	3	7	3	10	38
Future Volume (Veh/h)	1	3	7	3	10	38
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.35	0.35	0.35	0.35	0.35	0.35
Hourly flow rate (vph)	3	9	20	9	29	109
Pedestrians	4					5
Lane Width (ft)	12.0					12.0
Walking Speed (ft/s)	3.5					3.5
Percent Blockage	0					0
Right turn flare (veh)						
Median type			None			None
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	196	34			33	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	196	34			33	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	99			98	
cM capacity (veh/h)	780	1037			1586	
Direction, Lane #	WB 1	NB 1	SB 1			
Volume Total	12	29	138			
Volume Left	3	0	29			
Volume Right	9	9	0			
cSH	958	1700	1586			
Volume to Capacity	0.01	0.02	0.02			
Queue Length 95th (ft)	1	0	1			
Control Delay (s)	8.8	0.0	1.6			
Lane LOS	А		А			
Approach Delay (s)	8.8	0.0	1.6			
Approach LOS	А					
Intersection Summary						
Average Delay			1.9			
Intersection Capacity Utiliz	zation		20.8%	IC	U Level o	of Service
Analysis Period (min)			15			
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Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations		4	<b>f</b>		¥		
Traffic Volume (veh/h)	7	21	12	6	25	15	
Future Volume (Veh/h)	7	21	12	6	25	15	
Sign Control		Free	Free		Yield		
Grade		0%	0%		0%		
Peak Hour Factor	0.44	0.44	0.44	0.44	0.44	0.44	
Hourly flow rate (vph)	16	48	27	14	57	34	
Pedestrians					5		
Lane Width (ft)					12.0		
Walking Speed (ft/s)					3.5		
Percent Blockage					0		
Right turn flare (veh)					-		
Median type		None	None				
Median storage veh)							
Upstream signal (ft)							
pX, platoon unblocked							
vC, conflicting volume	46				119	39	
vC1, stage 1 conf vol							
vC2, stage 2 conf vol							
vCu, unblocked vol	46				119	39	
tC, single (s)	4.1				6.4	6.2	
tC, 2 stage (s)					<u> </u>		
tF (s)	2.2				3.5	3.3	
p0 queue free %	99				93	97	
cM capacity (veh/h)	1567				868	1033	
		WD 1	CD 1			.000	
Direction, Lane #	EB 1	WB 1	SB 1				
Volume Total	64	41	91				
Volume Left	16	0	57				
Volume Right	0	14	34				
cSH	1567	1700	923				
Volume to Capacity	0.01	0.02	0.10				
Queue Length 95th (ft)	1	0	8				
Control Delay (s)	1.9	0.0	9.3				
Lane LOS	Α		Α				
Approach Delay (s)	1.9	0.0	9.3				
Approach LOS			Α				
Intersection Summary							
Average Delay			4.9				
Intersection Capacity Utiliza	ation		17.2%	IC	U Level c	of Service	
Analysis Period (min)			15				

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Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥			ર્ન	î,	
Traffic Volume (veh/h)	9	8	0	21	4	3
Future Volume (Veh/h)	9	8	0	21	4	3
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.32	0.32	0.32	0.32	0.32	0.32
Hourly flow rate (vph)	28	25	0	66	13	9
Pedestrians	1		-			
Lane Width (ft)	12.0					
Walking Speed (ft/s)	3.5					
Percent Blockage	0					
Right turn flare (veh)						
Median type				None	None	
Median storage veh)				140110	740110	
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	84	18	23			
vC1, stage 1 conf vol	01	10	23			
vC2, stage 2 conf vol						
vCu, unblocked vol	84	18	23			
tC, single (s)	6.4	6.2	4.1			
tC, 2 stage (s)	0.7	0.2	7.1			
tF (s)	3.5	3.3	2.2			
p0 queue free %	97	98	100			
cM capacity (veh/h)	921	1065	1604			
Direction, Lane #	EB 1	NB 1	SB 1			
Volume Total	53	66	22			
Volume Left	28	0	0			
Volume Right	25	0	9			
cSH	984	1604	1700			
Volume to Capacity	0.05	0.00	0.01			
Queue Length 95th (ft)	4	0	0			
Control Delay (s)	8.9	0.0	0.0			
Lane LOS	А					
Approach Delay (s)	8.9	0.0	0.0			
Approach LOS	А					
Intersection Summary						
Average Delay			3.3			
Intersection Capacity Utiliza	ation		13.7%	IC	CU Level c	of Service
Analysis Period (min)			15			

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Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	W			ર્ન	ĵ»	
Traffic Volume (veh/h)	17	41	6	4	14	0
Future Volume (Veh/h)	17	41	6	4	14	0
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.30	0.30	0.30	0.30	0.30	0.30
Hourly flow rate (vph)	57	137	20	13	47	0
Pedestrians	4					
Lane Width (ft)	12.0					
Walking Speed (ft/s)	3.5					
Percent Blockage	0					
Right turn flare (veh)						
Median type				None	None	
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	104	51	51			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	104	51	51			
tC, single (s)	6.4	6.2	4.1			
tC, 2 stage (s)						
tF (s)	3.5	3.3	2.2			
p0 queue free %	94	87	99			
cM capacity (veh/h)	884	1019	1562			
Direction, Lane #	EB 1	NB 1	SB 1			
Volume Total	194	33	47			
Volume Left	57	20	0			
Volume Right	137	0	0			
cSH	975	1562	1700			
Volume to Capacity	0.20	0.01	0.03			
Queue Length 95th (ft)	18	1	0			
Control Delay (s)	9.6	4.5	0.0			
Lane LOS	Α	А				
Approach Delay (s)	9.6	4.5	0.0			
Approach LOS	А					
Intersection Summary						
Average Delay			7.3			
Intersection Capacity Utili	ization		15.7%	IC	:U Level o	f Service
Analysis Period (min)			15			
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Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	f)			4	W		
Traffic Volume (veh/h)	21	7	7	14	4	7	
Future Volume (Veh/h)	21	7	7	14	4	7	
Sign Control	Free			Free	Stop		
Grade	0%			0%	0%		
Peak Hour Factor	0.41	0.41	0.41	0.41	0.41	0.41	
Hourly flow rate (vph)	51	17	17	34	10	17	
Pedestrians					2		
Lane Width (ft)					12.0		
Walking Speed (ft/s)					3.5		
Percent Blockage					0		
Right turn flare (veh)							
Median type	None			None			
Median storage veh)							
Upstream signal (ft)							
pX, platoon unblocked							
vC, conflicting volume			70		130	62	
vC1, stage 1 conf vol			, 0		100	02	
vC2, stage 2 conf vol							
vCu, unblocked vol			70		130	62	
tC, single (s)			4.1		6.4	6.2	
tC, 2 stage (s)			7.1		0.4	0.2	
tF (s)			2.2		3.5	3.3	
p0 queue free %			99		99	98	
cM capacity (veh/h)			1541		858	1007	
					030	1007	
Direction, Lane #	EB 1	WB 1	NB 1				
Volume Total	68	51	27				
Volume Left	0	17	10				
Volume Right	17	0	17				
cSH	1700	1541	946				
Volume to Capacity	0.04	0.01	0.03				
Queue Length 95th (ft)	0	1	2				
Control Delay (s)	0.0	2.5	8.9				
Lane LOS		Α	Α				
Approach Delay (s)	0.0	2.5	8.9				
Approach LOS			Α				
Intersection Summary		_					
Average Delay			2.5				
Intersection Capacity Utilization	on		16.9%	IC	:U Level o	of Service	A
Analysis Period (min)			15				

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Movement	WDI	WDD	NDT	NDD.	CDI	CDT
Movement Lang Configurations	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	٥	<b>*</b>	<b>}</b>	0	0	707
Traffic Volume (veh/h)	0	0	585	0	0	797
Future Volume (Veh/h)	0	0	585	0	0	797
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.30	0.30	0.91	0.91	0.86	0.86
Hourly flow rate (vph)	0	0	643	0	0	927
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type			None			None
Median storage veh)						
Upstream signal (ft)						160
pX, platoon unblocked	0.56					
vC, conflicting volume	1570	643			643	
vC1, stage 1 conf vol		0.0			0.0	
vC2, stage 2 conf vol						
vCu, unblocked vol	1625	643			643	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)	0.4	0.2			7.1	
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	100			100	
	64				951	
cM capacity (veh/h)	04	477			951	
Direction, Lane #	WB 1	NB 1	SB 1			
Volume Total	0	643	927			
Volume Left	0	0	0			
Volume Right	0	0	0			
cSH	1700	1700	1700			
Volume to Capacity	0.00	0.38	0.55			
Queue Length 95th (ft)	0	0	0			
Control Delay (s)	0.0	0.0	0.0			
Lane LOS	А					
Approach Delay (s)	0.0	0.0	0.0			
Approach LOS	A	0.0	3.0			
• •						
Intersection Summary						
Average Delay			0.0			
Intersection Capacity Utiliz	zation		45.3%	IC	U Level c	f Service
Analysis Period (min)			15			

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Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations				4₽	<b>∱</b> }	
Traffic Volume (veh/h)	0	0	69	667	1082	138
Future Volume (Veh/h)	0	0	69	667	1082	138
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.92	0.92	0.42	0.92	0.95	0.45
Hourly flow rate (vph)	0	0	164	725	1139	307
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type				None	None	
Median storage veh)						
Upstream signal (ft)					382	
pX, platoon unblocked	0.79	0.79	0.79			
vC, conflicting volume	1983	723	1446			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	1720	134	1044			
tC, single (s)	6.8	6.9	4.1			
tC, 2 stage (s)						
tF (s)	3.5	3.3	2.2			
p0 queue free %	100	100	69			
cM capacity (veh/h)	45	712	535			
Direction, Lane #	NB 1	NB 2	SB 1	SB 2		
Volume Total	406	483	759	687		
Volume Left	164	0	0	007		
Volume Right	0	0	0	307		
cSH	535	1700	1700	1700		
Volume to Capacity	0.31	0.28	0.45	0.40		
Queue Length 95th (ft)	32	0.20	0.45	0.40		
Control Delay (s)	9.0	0.0	0.0	0.0		
		0.0	0.0	0.0		
Lane LOS	A		0.0			
Approach LOS	4.1		0.0			
Approach LOS						
Intersection Summary						
Average Delay			1.6			
Intersection Capacity Utiliz	zation		61.4%	IC	CU Level of	Service
Analysis Period (min)			15			

	•	•	†	<b>/</b>	<b>\</b>	<b>+</b>	
Movement	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations	W		<b>†</b> \$			44	-
Traffic Volume (veh/h)	17	38	744	17	13	1115	
Future Volume (Veh/h)	17	38	744	17	13	1115	
Sign Control	Stop		Free			Free	
Grade	0%		0%			0%	
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86	
Hourly flow rate (vph)	20	44	865	20	15	1297	
Pedestrians	11						
Lane Width (ft)	12.0						
Walking Speed (ft/s)	3.5						
Percent Blockage	1						
Right turn flare (veh)							
Median type			None			None	
Median storage veh)							
Upstream signal (ft)			300				
pX, platoon unblocked	0.92	0.92			0.92		
vC, conflicting volume	1564	454			896		
vC1, stage 1 conf vol							
vC2, stage 2 conf vol							
vCu, unblocked vol	1436	226			708		
tC, single (s)	6.8	7.0			4.1		
tC, 2 stage (s)							
tF (s)	3.5	3.3			2.2		
p0 queue free %	82	94			98		
cM capacity (veh/h)	113	703			818		
Direction, Lane #	WB 1	NB 1	NB 2	SB 1	SB 2		
Volume Total	64	577	308	447	865		
Volume Left	20	0	0	15	0		
Volume Right	44	0	20	0	0		
cSH	267	1700	1700	818	1700		
Volume to Capacity	0.24	0.34	0.18	0.02	0.51		
Queue Length 95th (ft)	23	0	0	1	0		
Control Delay (s)	22.7	0.0	0.0	0.5	0.0		
Lane LOS	С			Α			
Approach Delay (s)	22.7	0.0		0.2			
Approach LOS	С						
Intersection Summary							
Average Delay			0.7				
Intersection Capacity Utiliza	tion		50.0%	IC	U Level	of Service	
Analysis Period (min)			15				

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			₽			4	
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	13	26	5	3	19	2	7	13	3	0	5	12
Future Volume (vph)	13	26	5	3	19	2	7	13	3	0	5	12
Peak Hour Factor	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
Hourly flow rate (vph)	18	36	7	4	26	3	10	18	4	0	7	16
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total (vph)	61	33	32	23								
Volume Left (vph)	18	4	10	0								
Volume Right (vph)	7	3	4	16								
Hadj (s)	-0.01	0.04	-0.01	-0.31								
Departure Headway (s)	4.0	4.1	4.1	3.8								
Degree Utilization, x	0.07	0.04	0.04	0.02								
Capacity (veh/h)	873	857	845	914								
Control Delay (s)	7.3	7.3	7.3	6.9								
Approach Delay (s)	7.3	7.3	7.3	6.9								
Approach LOS	Α	Α	Α	Α								
Intersection Summary												
Delay			7.2									
Level of Service			Α									
Intersection Capacity Utiliza	tion		20.6%	IC	:U Level o	of Service			Α			
Analysis Period (min)			15									

<b>&gt;</b>
SBL SBT
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10 32
10 32
Free
0%
0.77
13 42
1
12.0
3.5
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None
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12
4.1
2.2
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Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	1•		W	
Traffic Volume (veh/h)	0	37	28	6	17	19
Future Volume (Veh/h)	0	37	28	6	17	19
Sign Control		Free	Free		Yield	
Grade		0%	0%		0%	
Peak Hour Factor	0.72	0.72	0.72	0.72	0.72	0.72
Hourly flow rate (vph)	0	51	39	8	24	26
Pedestrians					7	
Lane Width (ft)					12.0	
Walking Speed (ft/s)					3.5	
Percent Blockage					1	
Right turn flare (veh)						
Median type		None	None			
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	54				101	50
vC1, stage 1 conf vol	0.					
vC2, stage 2 conf vol						
vCu, unblocked vol	54				101	50
tC, single (s)	4.1				6.5	6.2
tC, 2 stage (s)					0.0	0.2
tF (s)	2.2				3.6	3.3
p0 queue free %	100				97	97
cM capacity (veh/h)	1554				868	1017
Direction, Lane #	EB 1	WB 1	SB 1			
Volume Total	51	47	50			
			24			
Volume Left	0	0				
Volume Right	1554	1700	26			
CSH Valume to Conseitu	1554	1700	940			
Volume to Capacity	0.00	0.03	0.05			
Queue Length 95th (ft)	0	0	4			
Control Delay (s)	0.0	0.0	9.0			
Lane LOS	0.0	0.0	A			
Approach Delay (s)	0.0	0.0	9.0			
Approach LOS			Α			
Intersection Summary						
Average Delay			3.1			
Intersection Capacity Utiliza	ition		15.4%	IC	U Level o	of Service
Analysis Period (min)			15			

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Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	W			ર્ન	î,	
Traffic Volume (veh/h)	8	11	3	14	12	0
Future Volume (Veh/h)	8	11	3	14	12	0
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.63	0.63	0.63	0.63	0.63	0.63
Hourly flow rate (vph)	13	17	5	22	19	0
Pedestrians	6				2	
Lane Width (ft)	12.0				12.0	
Walking Speed (ft/s)	3.5				3.5	
Percent Blockage	1				0	
Right turn flare (veh)					-	
Median type				None	None	
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	59	25	25			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	59	25	25			
tC, single (s)	6.4	6.2	4.1			
tC, 2 stage (s)	<b>U.</b> 1	0.2				
tF (s)	3.5	3.3	2.2			
p0 queue free %	99	98	100			
cM capacity (veh/h)	943	1051	1593			
			SB 1			
Direction, Lane #	EB 1	NB 1				
Volume Total	30	27	19			
Volume Left	13	5	0			
Volume Right	17	0	0			
cSH	1001	1593	1700			
Volume to Capacity	0.03	0.00	0.01			
Queue Length 95th (ft)	2	0	0			
Control Delay (s)	8.7	1.4	0.0			
Lane LOS	Α	Α				
Approach Delay (s)	8.7	1.4	0.0			
Approach LOS	А					
Intersection Summary						
Average Delay			3.9			
Intersection Capacity Utilization	on		15.1%	IC	U Level c	of Service
Analysis Period (min)			15			

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Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	W			ર્ન	ĵ∍	
Traffic Volume (veh/h)	8	20	3	9	21	3
Future Volume (Veh/h)	8	20	3	9	21	3
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.57	0.57	0.57	0.57	0.57	0.57
Hourly flow rate (vph)	14	35	5	16	37	5
Pedestrians	10					
Lane Width (ft)	12.0					
Walking Speed (ft/s)	3.5					
Percent Blockage	1					
Right turn flare (veh)						
Median type				None	None	
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	76	50	52			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	76	50	52			
tC, single (s)	6.4	6.2	4.1			
tC, 2 stage (s)						
tF (s)	3.5	3.3	2.2			
p0 queue free %	98	97	100			
cM capacity (veh/h)	921	1015	1552			
Direction, Lane #	EB 1	NB 1	SB 1			
Volume Total	49	21	42			
Volume Left	14	5	0			
Volume Right	35	0	5			
cSH	986	1552	1700			
Volume to Capacity	0.05	0.00	0.02			
Queue Length 95th (ft)	4	0	0			
Control Delay (s)	8.8	1.8	0.0			
Lane LOS	А	Α				
Approach Delay (s)	8.8	1.8	0.0			
Approach LOS	А					
Intersection Summary						
Average Delay			4.2			
Intersection Capacity Utili	ization		16.2%	IC	CU Level o	of Service
Analysis Period (min)			15			
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Movement EBT EBR WBL WBT NBL NBR
Lane Configurations \$ \$\frac{1}{4}\$ \$\frac{1}{4}\$
Traffic Volume (veh/h) 25 6 7 31 20 19
Future Volume (Veh/h) 25 6 7 31 20 19
Sign Control Free Free Stop
Grade 0% 0% 0%
Peak Hour Factor 0.73 0.73 0.73 0.73 0.73 0.73
Hourly flow rate (vph) 34 8 10 42 27 26
Pedestrians 1
Lane Width (ft) 12.0
Walking Speed (ft/s) 3.5
Percent Blockage 0
Right turn flare (veh)
Median type None None
Median storage veh)
Upstream signal (ft)
pX, platoon unblocked
vC, conflicting volume 43 101 39
vC1, stage 1 conf vol
vC2, stage 2 conf vol
vCu, unblocked vol 43 101 39
tC, single (s) 4.1 6.4 6.2
tC, 2 stage (s)
tF (s) 2.2 3.5 3.3
p0 queue free % 99 97 97
cM capacity (veh/h) 1577 896 1037
Direction, Lane # EB 1 WB 1 NB 1
Volume Total 42 52 53
Volume Left 0 10 27
Volume Right 8 0 26
cSH 1700 1577 960
Volume to Capacity 0.02 0.01 0.06
Queue Length 95th (ft) 0 0 4
Control Delay (s) 0.0 1.4 9.0
Lane LOS A A
Approach Delay (s) 0.0 1.4 9.0
Approach LOS A
Intersection Summary
Average Delay 3.7
Intersection Capacity Utilization 17.6% ICU Level of Service
Analysis Period (min) 15

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Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations		7	<b>∱</b> ⊅			<b>^</b>
Traffic Volume (veh/h)	0	0	667	0	0	1220
Future Volume (Veh/h)	0	0	667	0	0	1220
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.40	0.40	0.90	0.90	0.84	0.84
Hourly flow rate (vph)	0	0	741	0	0	1452
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type			None			None
Median storage veh)						
Upstream signal (ft)						160
pX, platoon unblocked	0.79					
vC, conflicting volume	1467	370			741	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	1069	370			741	
tC, single (s)	6.8	6.9			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	100			100	
cM capacity (veh/h)	174	632			875	
Direction, Lane #	WB 1	NB 1	NB 2	SB 1	SB 2	
Volume Total	0	494	247	726	726	
Volume Left	0	0	0	0	0	
Volume Right	0	0	0	0	0	
cSH	1700	1700	1700	1700	1700	
Volume to Capacity	0.00	0.29	0.15	0.43	0.43	
Queue Length 95th (ft)	0.00	0.27	0.15	0.43	0.43	
Control Delay (s)	0.0	0.0	0.0	0.0	0.0	
Lane LOS	0.0 A	0.0	0.0	0.0	0.0	
Approach Delay (s)	0.0	0.0		0.0		
Approach LOS	0.0 A	0.0		0.0		
	А					
Intersection Summary						
Average Delay			0.0			
Intersection Capacity Utili	zation		37.1%	IC	U Level of	of Service
Analysis Period (min)			15			

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Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations				4₽	<b>∱</b> }	
Traffic Volume (veh/h)	0	0	46	819	926	43
Future Volume (Veh/h)	0	0	46	819	926	43
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.92	0.92	0.44	0.91	0.94	0.57
Hourly flow rate (vph)	0	0	105	900	985	75
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type				None	None	
Median storage veh)						
Upstream signal (ft)					382	
pX, platoon unblocked	0.89	0.89	0.89			
vC, conflicting volume	1682	530	1060			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	1517	220	817			
tC, single (s)	6.8	6.9	4.1			
tC, 2 stage (s)						
tF (s)	3.5	3.3	2.2			
p0 queue free %	100	100	86			
cM capacity (veh/h)	85	702	729			
Direction, Lane #	NB 1	NB 2	SB 1	SB 2		
Volume Total	405	600	657	403		
Volume Left	105	0	0	0		
Volume Right	0	0	0	75		
cSH	729	1700	1700	1700		
Volume to Capacity	0.14	0.35	0.39	0.24		
Queue Length 95th (ft)	13	0	0	0		
Control Delay (s)	4.2	0.0	0.0	0.0		
Lane LOS	A	0.0	0.0	0.0		
Approach Delay (s)	1.7		0.0			
Approach LOS	117		0.0			
Intersection Summary						
Average Delay			0.8			
Intersection Capacity Utiliz	zation		57.6%	IC	CU Level of	Service
Analysis Period (min)	Lation		15	10	O LCVCI UI	JCI VICE
Analysis Fellou (IIIIII)			10			

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Movement	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations	W		<b>∱</b> ∱			414	
Traffic Volume (veh/h)	10	18	855	17	24	905	
Future Volume (Veh/h)	10	18	855	17	24	905	
Sign Control	Stop		Free			Free	
Grade	0%		0%			0%	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	
Hourly flow rate (vph)	11	19	900	18	25	953	
Pedestrians	24						
Lane Width (ft)	12.0						
Walking Speed (ft/s)	3.5						
Percent Blockage	2						
Right turn flare (veh)							
Median type			None			None	
Median storage veh)							
Upstream signal (ft)			300				
pX, platoon unblocked	0.90	0.90			0.90		
vC, conflicting volume	1460	483			942		
vC1, stage 1 conf vol							
vC2, stage 2 conf vol							
vCu, unblocked vol	1296	216			724		
tC, single (s)	6.8	6.9			4.3		
tC, 2 stage (s)							
tF (s)	3.5	3.3			2.3		
p0 queue free %	92	97			97		
cM capacity (veh/h)	133	702			738		
Direction, Lane #	WB 1	NB 1	NB 2	SB 1	SB 2		
Volume Total	30	600	318	343	635		
Volume Left	11	0	0	25	0		
Volume Right	19	0	18	0	0		
cSH	274	1700	1700	738	1700		
Volume to Capacity	0.11	0.35	0.19	0.03	0.37		
Queue Length 95th (ft)	9	0	0	3	0		
Control Delay (s)	19.7	0.0	0.0	1.1	0.0		
Lane LOS	С			Α			
Approach Delay (s)	19.7	0.0		0.4			
Approach LOS	С						
Intersection Summary							
Average Delay			0.5				
Intersection Capacity Utiliz	zation		52.3%	IC	U Level ເ	of Service	
Analysis Period (min)			15				

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	4	17	10	8	17	2	6	2	0	2	8	16
Future Volume (vph)	4	17	10	8	17	2	6	2	0	2	8	16
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
Hourly flow rate (vph)	5	19	11	9	19	2	7	2	0	2	9	18
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total (vph)	35	30	9	29								
Volume Left (vph)	5	9	7	2								
Volume Right (vph)	11	2	0	18								
Hadj (s)	-0.11	0.02	0.16	-0.36								
Departure Headway (s)	3.9	4.0	4.2	3.7								
Degree Utilization, x	0.04	0.03	0.01	0.03								
Capacity (veh/h)	907	879	828	954								
Control Delay (s)	7.1	7.2	7.3	6.8								
Approach Delay (s)	7.1	7.2	7.3	6.8								
Approach LOS	Α	Α	Α	Α								
Intersection Summary												
Delay			7.0									
Level of Service			Α									
Intersection Capacity Utiliza	ation		19.4%	IC	U Level o	of Service			Α			
Analysis Period (min)			15									

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Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W		f)			र्स
Traffic Volume (veh/h)	2	1	11	4	29	25
Future Volume (Veh/h)	2	1	11	4	29	25
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.38	0.38	0.38	0.38	0.38	0.38
Hourly flow rate (vph)	5	3	29	11	76	66
Pedestrians	1					6
Lane Width (ft)	12.0					12.0
Walking Speed (ft/s)	3.5					3.5
Percent Blockage	0					1
Right turn flare (veh)						
Median type			None			None
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	254	42			41	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	254	42			41	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	99	100			95	
cM capacity (veh/h)	703	1028			1580	
Direction, Lane #	WB 1	NB 1	SB 1			
Volume Total	8	40	142			
Volume Left	5	0	76			
Volume Right	3	11	0			
cSH	798	1700	1580			
Volume to Capacity	0.01	0.02	0.05			
Queue Length 95th (ft)	1	0.02	4			
Control Delay (s)	9.6	0.0	4.1			
Lane LOS	7.0 A	0.0	Α.Τ			
Approach Delay (s)	9.6	0.0	4.1			
Approach LOS	7.0 A	5.0	7.1			
•	, ,					
Intersection Summary			2.5			
Average Delay	1!		3.5	10	III ama	of Complete
Intersection Capacity Utiliz	zation		21.4%	IC	U Level (	of Service
Analysis Period (min)			15			

	•	<b>→</b>	<b>←</b>	4	-	4
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		र्स	1>		W	
Traffic Volume (veh/h)	8	27	23	3	10	13
Future Volume (Veh/h)	8	27	23	3	10	13
Sign Control		Free	Free		Yield	
Grade		0%	0%		0%	
Peak Hour Factor	0.81	0.81	0.81	0.81	0.81	0.81
Hourly flow rate (vph)	10	33	28	4	12	16
Pedestrians					5	
Lane Width (ft)					12.0	
Walking Speed (ft/s)					3.5	
Percent Blockage					0	
Right turn flare (veh)						
Median type		None	None			
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	37				88	35
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	37				88	35
tC, single (s)	4.1				6.4	6.4
tC, 2 stage (s)						
tF (s)	2.2				3.5	3.4
p0 queue free %	99				99	98
cM capacity (veh/h)	1579				908	997
Direction, Lane #	EB 1	WB 1	SB 1			
Volume Total	43	32	28			
Volume Left	10	0	12			
Volume Right	0	4	16			
cSH	1579	1700	957			
Volume to Capacity	0.01	0.02	0.03			
Queue Length 95th (ft)	0	0	2			
Control Delay (s)	1.7	0.0	8.9			
Lane LOS	Α		А			
Approach Delay (s)	1.7	0.0	8.9			
Approach LOS			А			
Intersection Summary						
Average Delay			3.1			
Intersection Capacity Utiliza	ation		18.4%	IC	:U Level c	of Service
Analysis Period (min)			15. 176	.0	5 25.07 0	
Analysis Period (min)			15			

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Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	W			र्स	f)	
Traffic Volume (veh/h)	2	1	1	7	21	3
Future Volume (Veh/h)	2	1	1	7	21	3
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.67	0.67	0.67	0.67	0.67	0.67
Hourly flow rate (vph)	3	1	1	10	31	4
Pedestrians	3			1	3	
Lane Width (ft)	12.0			12.0	12.0	
Walking Speed (ft/s)	3.5			3.5	3.5	
Percent Blockage	0			0	0	
Right turn flare (veh)						
Median type				None	None	
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	51	37	38			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	51	37	38			
tC, single (s)	6.4	6.2	4.1			
tC, 2 stage (s)						
tF (s)	3.5	3.3	2.2			
p0 queue free %	100	100	100			
cM capacity (veh/h)	957	1037	1581			
Direction, Lane #	EB 1	NB 1	SB 1			
Volume Total	4	11	35			
Volume Left	3	1	0			
Volume Right	1	0	4			
cSH	976	1581	1700			
Volume to Capacity	0.00	0.00	0.02			
Queue Length 95th (ft)	0	0	0			
Control Delay (s)	8.7	0.7	0.0			
Lane LOS	Α	Α				
Approach Delay (s)	8.7	0.7	0.0			
Approach LOS	А					
Intersection Summary						
Average Delay			0.8			
Intersection Capacity Utili	ization		14.6%	IC	U Level c	f Service
Analysis Period (min)			15			
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Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥			र्स	ĵ.	
Traffic Volume (veh/h)	0	30	1	8	22	2
Future Volume (Veh/h)	0	30	1	8	22	2
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.35	0.35	0.35	0.35	0.35	0.35
Hourly flow rate (vph)	0	86	3	23	63	6
Pedestrians	14					
Lane Width (ft)	12.0					
Walking Speed (ft/s)	3.5					
Percent Blockage	1					
Right turn flare (veh)						
Median type				None	None	
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	109	80	83			
vC1, stage 1 conf vol	107	00	00			
vC2, stage 2 conf vol						
vCu, unblocked vol	109	80	83			
tC, single (s)	6.4	6.3	4.1			
tC, 2 stage (s)	0.1	0.0	1.1			
tF (s)	3.5	3.4	2.2			
p0 queue free %	100	91	100			
cM capacity (veh/h)	879	954	1506			
Direction, Lane #	EB 1	NB 1	SB 1			
Volume Total	86	26	69			
Volume Left	0	3	0			
Volume Right	86	0	6			
cSH	954	1506	1700			
Volume to Capacity	0.09	0.00	0.04			
Queue Length 95th (ft)	7	0	0			
Control Delay (s)	9.1	0.9	0.0			
Lane LOS	А	Α				
Approach Delay (s)	9.1	0.9	0.0			
Approach LOS	А					
Intersection Summary						
Average Delay			4.5			
Intersection Capacity Utiliza	ation		17.1%	IC	CU Level c	of Service
Analysis Period (min)			15			

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Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<b>1</b>			4	W	
Traffic Volume (veh/h)	31	8	15	24	1	0
Future Volume (Veh/h)	31	8	15	24	1	0
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88
Hourly flow rate (vph)	35	9	17	27	1	0
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type	None			None		
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume			44		100	40
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			44		100	40
tC, single (s)			4.1		6.4	6.2
tC, 2 stage (s)						
tF (s)			2.2		3.5	3.3
p0 queue free %			99		100	100
cM capacity (veh/h)			1577		893	1038
Direction, Lane #	EB 1	WB 1	NB 1			
Volume Total	44	44	1			
Volume Left	0	17	1			
Volume Right	9	0	0			
cSH	1700	1577	893			
Volume to Capacity	0.03	0.01	0.00			
Queue Length 95th (ft)	0	1	0			
Control Delay (s)	0.0	2.9	9.0			
Lane LOS		А	А			
Approach Delay (s)	0.0	2.9	9.0			
Approach LOS			А			
Intersection Summary						
Average Delay			1.5			
Intersection Capacity Utiliza	ation		18.8%	IC	U Level o	of Service
Analysis Period (min)			15			
a. joio i oriou (iiiii)						

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Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations		7	<b>↑</b> ↑			<b>^</b>
Traffic Volume (veh/h)	0	0	819	0	0	969
Future Volume (Veh/h)	0	0	819	0	0	969
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.50	0.50	0.91	0.91	0.93	0.93
Hourly flow rate (vph)	0	0	900	0	0	1042
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type			None			None
Median storage veh)						
Upstream signal (ft)						160
pX, platoon unblocked	0.89					
vC, conflicting volume	1421	450			900	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	1217	450			900	
tC, single (s)	6.8	6.9			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	100			100	
cM capacity (veh/h)	156	562			763	
Direction, Lane #	WB 1	NB 1	NB 2	SB 1	SB 2	
Volume Total	0	600	300	521	521	
Volume Left	0	0	0	0	0	
Volume Right	0	0	0	0	0	
cSH	1700	1700	1700	1700	1700	
Volume to Capacity	0.00	0.35	0.18	0.31	0.31	
Queue Length 95th (ft)	0	0	0	0	0	
Control Delay (s)	0.0	0.0	0.0	0.0	0.0	
Lane LOS	А					
Approach Delay (s)	0.0	0.0		0.0		
Approach LOS	А					
Intersection Summary						
Average Delay			0.0			
Intersection Capacity Utili	ization		30.1%	IC	U Level	of Service
Analysis Period (min)			15	.0		557 1100
rangolo i orioù (illin)			10			

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Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations				ર્ન	ĵ»	
Traffic Volume (veh/h)	0	0	46	625	772	47
Future Volume (Veh/h)	0	0	46	625	772	47
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.50	0.50	0.55	0.92	0.70	0.49
Hourly flow rate (vph)	0	0	84	679	1103	96
Pedestrians	26					
Lane Width (ft)	0.0					
Walking Speed (ft/s)	3.5					
Percent Blockage	0					
Right turn flare (veh)						
Median type				None	None	
Median storage veh)						
Upstream signal (ft)					382	
pX, platoon unblocked	0.66	0.66	0.66		002	
vC, conflicting volume	2024	1177	1225			
vC1, stage 1 conf vol	2021	,	1220			
vC2, stage 2 conf vol						
vCu, unblocked vol	2288	1014	1086			
tC, single (s)	6.4	6.2	4.1			
tC, 2 stage (s)	0.1	0.2				
tF (s)	3.5	3.3	2.2			
p0 queue free %	100	100	81			
cM capacity (veh/h)	24	194	432			
			732			
Direction, Lane #	NB 1	SB 1				
Volume Total	763	1199				
Volume Left	84	0				
Volume Right	0	96				
cSH	432	1700				
Volume to Capacity	0.19	0.71				
Queue Length 95th (ft)	18	0				
Control Delay (s)	6.1	0.0				
Lane LOS	А					
Approach Delay (s)	6.1	0.0				
Approach LOS						
Intersection Summary						
Average Delay			2.4			
Intersection Capacity Util	lization		74.1%	10	CU Level of	f Convice
	iiZdliUII			IC	O LEVEI O	Service
Analysis Period (min)			15			

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Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W		<b>∱</b> ∱			41∱
Traffic Volume (veh/h)	52	36	658	17	39	692
Future Volume (Veh/h)	52	36	658	17	39	692
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.79	0.79	0.79	0.79	0.79	0.79
Hourly flow rate (vph)	66	46	833	22	49	876
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type			None			None
Median storage veh)						
Upstream signal (ft)			300			
pX, platoon unblocked						
vC, conflicting volume	1380	428			855	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	1380	428			855	
tC, single (s)	6.8	6.9			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	49	92			94	
cM capacity (veh/h)	129	581			793	
			ND 0	CD 1		
Direction, Lane #	WB 1	NB 1	NB 2	SB 1	SB 2	
Volume Total	112	555	300	341	584	
Volume Left	66	0	0	49	0	
Volume Right	46	0	22	0	0	
cSH	190	1700	1700	793	1700	
Volume to Capacity	0.59	0.33	0.18	0.06	0.34	
Queue Length 95th (ft)	81	0	0	5	0	
Control Delay (s)	48.0	0.0	0.0	2.0	0.0	
Lane LOS	E			А		
Approach Delay (s)	48.0	0.0		0.8		
Approach LOS	Е					
Intersection Summary						
Average Delay			3.2			
Intersection Capacity Utili	zation		54.1%	IC	U Level	of Service
Analysis Period (min)			15			
			10			

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	13	23	1	7	11	0	25	10	8	0	8	8
Future Volume (vph)	13	23	1	7	11	0	25	10	8	0	8	8
Peak Hour Factor	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
Hourly flow rate (vph)	32	56	2	17	27	0	61	24	20	0	20	20
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total (vph)	90	44	105	40								
Volume Left (vph)	32	17	61	0								
Volume Right (vph)	2	0	20	20								
Hadj (s)	0.06	0.08	0.00	-0.30								
Departure Headway (s)	4.3	4.4	4.3	4.0								
Degree Utilization, x	0.11	0.05	0.12	0.04								
Capacity (veh/h)	801	785	814	857								
Control Delay (s)	7.9	7.6	7.9	7.2								
Approach Delay (s)	7.9	7.6	7.9	7.2								
Approach LOS	Α	Α	Α	Α								
Intersection Summary												
Delay			7.7									
Level of Service			Α									
Intersection Capacity Utilizat	ion		20.6%	IC	U Level o	of Service			Α			
Analysis Period (min)			15									

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Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		ĵ∍			ર્ન
Traffic Volume (veh/h)	1	1	49	3	1	71
Future Volume (Veh/h)	1	1	49	3	1	71
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.35	0.35	0.35	0.35	0.35	0.35
Hourly flow rate (vph)	3	3	140	9	3	203
Pedestrians	4					5
Lane Width (ft)	12.0					12.0
Walking Speed (ft/s)	3.5					3.5
Percent Blockage	0					0
Right turn flare (veh)						
Median type			None			None
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	358	154			153	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	358	154			153	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	100			100	
cM capacity (veh/h)	641	890			1434	
Direction, Lane #	WB 1	NB 1	SB 1			
Volume Total	6	149	206			
Volume Left	3	0	3			
Volume Right	3	9	0			
cSH	745	1700	1434			
Volume to Capacity	0.01	0.09	0.00			
Queue Length 95th (ft)	1	0	0			
Control Delay (s)	9.9	0.0	0.1			
Lane LOS	А		А			
Approach Delay (s)	9.9	0.0	0.1			
Approach LOS	А					
Intersection Summary						
Average Delay			0.2			
Intersection Capacity Utiliz	zation		16.1%	IC	U Level o	of Service
Analysis Period (min)			15			

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Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	1>		W	
Traffic Volume (veh/h)	16	22	12	39	54	19
Future Volume (Veh/h)	16	22	12	39	54	19
Sign Control		Free	Free		Yield	
Grade		0%	0%		0%	
Peak Hour Factor	0.44	0.44	0.44	0.44	0.44	0.44
Hourly flow rate (vph)	36	50	27	89	123	43
Pedestrians					5	
Lane Width (ft)					12.0	
Walking Speed (ft/s)					3.5	
Percent Blockage					0	
Right turn flare (veh)					-	
Median type		None	None			
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	121				198	76
vC1, stage 1 conf vol	121				. 70	, 0
vC2, stage 2 conf vol						
vCu, unblocked vol	121				198	76
tC, single (s)	4.1				6.4	6.2
tC, 2 stage (s)	7.1				J. T	0.2
tF (s)	2.2				3.5	3.3
p0 queue free %	98				84	96
cM capacity (veh/h)	1472				772	985
		WD 4	05.4		112	700
Direction, Lane #	EB 1	WB 1	SB 1			
Volume Total	86	116	166			
Volume Left	36	0	123			
Volume Right	0	89	43			
cSH	1472	1700	818			
Volume to Capacity	0.02	0.07	0.20			
Queue Length 95th (ft)	2	0	19			
Control Delay (s)	3.3	0.0	10.5			
Lane LOS	А		В			
Approach Delay (s)	3.3	0.0	10.5			
Approach LOS			В			
Intersection Summary						
Average Delay			5.5			
Intersection Capacity Utili	ization		19.5%	IC	U Level o	of Service
Analysis Period (min)			15			
arjoio i oriou (iliiri)			10			

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Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	W			ર્ન	ĵ.	
Traffic Volume (veh/h)	20	22	16	25	10	6
Future Volume (Veh/h)	20	22	16	25	10	6
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.32	0.32	0.32	0.32	0.32	0.32
Hourly flow rate (vph)	63	69	50	78	31	19
Pedestrians	1					
Lane Width (ft)	12.0					
Walking Speed (ft/s)	3.5					
Percent Blockage	0					
Right turn flare (veh)						
Median type				None	None	
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	220	42	51			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	220	42	51			
tC, single (s)	6.4	6.2	4.1			
tC, 2 stage (s)						
tF (s)	3.5	3.3	2.2			
p0 queue free %	92	93	97			
cM capacity (veh/h)	748	1034	1567			
Direction, Lane #	EB 1	NB 1	SB 1			
Volume Total	132	128	50			
Volume Left	63	50	0			
Volume Right	69	0	19			
cSH	874	1567	1700			
Volume to Capacity	0.15	0.03	0.03			
Queue Length 95th (ft)	13	2	0			
Control Delay (s)	9.8	3.0	0.0			
Lane LOS	А	А				
Approach Delay (s)	9.8	3.0	0.0			
Approach LOS	А					
Intersection Summary						
Average Delay			5.4			
Intersection Capacity Utili	zation		18.9%	IC	U Level c	f Service
Analysis Period (min)			15			
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Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥			4	f)	
Traffic Volume (veh/h)	21	43	30	20	28	6
Future Volume (Veh/h)	21	43	30	20	28	6
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.30	0.30	0.30	0.30	0.30	0.30
Hourly flow rate (vph)	70	143	100	67	93	20
Pedestrians	4					
Lane Width (ft)	12.0					
Walking Speed (ft/s)	3.5					
Percent Blockage	0					
Right turn flare (veh)						
Median type				None	None	
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	374	107	117			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	374	107	117			
tC, single (s)	6.4	6.2	4.1			
tC, 2 stage (s)						
tF (s)	3.5	3.3	2.2			
p0 queue free %	88	85	93			
cM capacity (veh/h)	586	949	1478			
Direction, Lane #	EB 1	NB 1	SB 1			
Volume Total	213	167	113			
Volume Left	70	100	0			
Volume Right	143	0	20			
cSH	788	1478	1700			
Volume to Capacity	0.27	0.07	0.07			
Queue Length 95th (ft)	27	5	0			
Control Delay (s)	11.2	4.8	0.0			
Lane LOS	В	Α				
Approach Delay (s)	11.2	4.8	0.0			
Approach LOS	В		0.0			
Intersection Summary						
Average Delay			6.5			
Intersection Capacity Utili:	zation		19.9%	IC	U Level c	f Service
Analysis Period (min)			15	, ,	,,,,,	
arjoio i orioù (iliili)			10			

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Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	f)			4	W	
Traffic Volume (veh/h)	21	34	12	38	47	17
Future Volume (Veh/h)	21	34	12	38	47	17
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.41	0.41	0.41	0.41	0.41	0.41
Hourly flow rate (vph)	51	83	29	93	115	41
Pedestrians	01	00	2,	70	2	
Lane Width (ft)					12.0	
Walking Speed (ft/s)					3.5	
Percent Blockage					0	
Right turn flare (veh)					U	
Median type	None			None		
Median storage veh)	INOLIC			INOLIC		
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume			136		246	94
vC1, stage 1 conf vol			130		240	74
vC2, stage 2 conf vol						
vCu, unblocked vol			136		246	94
			4.1		6.4	6.2
tC, single (s)			4.1		0.4	0.2
tC, 2 stage (s)			2.2		3.5	3.3
tF (s)			2.2 98			
p0 queue free %					84	96
cM capacity (veh/h)			1458		731	966
Direction, Lane #	EB 1	WB 1	NB 1			
Volume Total	134	122	156			
Volume Left	0	29	115			
Volume Right	83	0	41			
cSH	1700	1458	781			
Volume to Capacity	0.08	0.02	0.20			
Queue Length 95th (ft)	0	2	19			
Control Delay (s)	0.0	1.9	10.8			
Lane LOS		А	В			
Approach Delay (s)	0.0	1.9	10.8			
Approach LOS			В			
Intersection Summary						
			4.6			
Average Delay	ation			10	ll Lovol a	of Condoc
Intersection Capacity Utiliza	1110[]		19.6%	IC	CU Level c	or Service
Analysis Period (min)			15			

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Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations		7	f)			<b>†</b>
Traffic Volume (veh/h)	0	26	598	35	0	797
Future Volume (Veh/h)	0	26	598	35	0	797
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.30	0.30	0.91	0.91	0.86	0.86
Hourly flow rate (vph)	0	87	657	38	0	927
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type			None			None
Median storage veh)						
Upstream signal (ft)						160
pX, platoon unblocked	0.66					
vC, conflicting volume	1603	676			695	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	1655	676			695	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	81			100	
cM capacity (veh/h)	72	457			910	
Direction, Lane #	WB 1	NB 1	SB 1			
Volume Total	87	695	927			
Volume Left	0	0	0			
Volume Right	87	38	0			
cSH	457	1700	1700			
Volume to Capacity	0.19	0.41	0.55			
Queue Length 95th (ft)	17	0	0			
Control Delay (s)	14.7	0.0	0.0			
Lane LOS	В					
Approach Delay (s)	14.7	0.0	0.0			
Approach LOS	В					
Intersection Summary						
Average Delay			0.7			
Intersection Capacity Utiliz	zation		45.3%	IC	U Level c	of Service
Analysis Period (min)			15			

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Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations				4₽	<b>∱</b> ∱	
Traffic Volume (veh/h)	0	0	69	689	1116	138
Future Volume (Veh/h)	0	0	69	689	1116	138
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.92	0.92	0.42	0.92	0.95	0.45
Hourly flow rate (vph)	0	0	164	749	1175	307
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type				None	None	
Median storage veh)						
Upstream signal (ft)					382	
pX, platoon unblocked	0.78	0.78	0.78			
vC, conflicting volume	2031	741	1482			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	1763	116	1062			
tC, single (s)	6.8	6.9	4.1			
tC, 2 stage (s)						
tF (s)	3.5	3.3	2.2			
p0 queue free %	100	100	68			
cM capacity (veh/h)	41	721	520			
Direction, Lane #	NB 1	NB 2	SB 1	SB 2		
Volume Total	414	499	783	699		
Volume Left	164	0	0	0		
Volume Right	0	0	0	307		
cSH	520	1700	1700	1700		
Volume to Capacity	0.32	0.29	0.46	0.41		
Queue Length 95th (ft)	34	0.27	0.40	0		
Control Delay (s)	9.3	0.0	0.0	0.0		
Lane LOS	7.5 A	0.0	0.0	0.0		
Approach Delay (s)	4.2		0.0			
Approach LOS	7.2		0.0			
• •						
Intersection Summary			1 (			
Average Delay	.,		1.6	, ,		0 '
Intersection Capacity Utiliz	zation		63.0%	IC	CU Level of	Service
Analysis Period (min)			15			

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Movement	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations	W		<b>ተ</b> ኈ			414	
Traffic Volume (veh/h)	20	40	767	18	15	1148	
Future Volume (Veh/h)	20	40	767	18	15	1148	
Sign Control	Stop		Free			Free	
Grade	0%		0%			0%	
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86	
Hourly flow rate (vph)	23	47	892	21	17	1335	
Pedestrians	11						
Lane Width (ft)	12.0						
Walking Speed (ft/s)	3.5						
Percent Blockage	1						
Right turn flare (veh)							
Median type			None			None	
Median storage veh)							
Upstream signal (ft)			300				
pX, platoon unblocked	0.91	0.91			0.91		
vC, conflicting volume	1615	468			924		
vC1, stage 1 conf vol							
vC2, stage 2 conf vol							
vCu, unblocked vol	1484	228			728		
tC, single (s)	6.8	7.0			4.1		
tC, 2 stage (s)							
tF (s)	3.5	3.3			2.2		
p0 queue free %	78	93			98		
cM capacity (veh/h)	104	698			800		
Direction, Lane #	WB 1	NB 1	NB 2	SB 1	SB 2		
Volume Total	70	595	318	462	890		
Volume Left	23	0	0	17	0		
Volume Right	47	0	21	0	0		
cSH	243	1700	1700	800	1700		
Volume to Capacity	0.29	0.35	0.19	0.02	0.52		
Queue Length 95th (ft)	29	0	0	2	0		
Control Delay (s)	25.7	0.0	0.0	0.6	0.0		
Lane LOS	D			Α			
Approach Delay (s)	25.7	0.0		0.2			
Approach LOS	D						
Intersection Summary							
Average Delay			0.9				
Intersection Capacity Utiliza	ation		52.6%	IC	U Level	of Service	
Analysis Period (min)			15				

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	13	27	5	3	20	2	7	13	3	0	5	12
Future Volume (vph)	13	27	5	3	20	2	7	13	3	0	5	12
Peak Hour Factor	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
Hourly flow rate (vph)	18	37	7	4	27	3	10	18	4	0	7	16
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total (vph)	62	34	32	23								
Volume Left (vph)	18	4	10	0								
Volume Right (vph)	7	3	4	16								
Hadj (s)	-0.01	0.04	-0.01	-0.31								
Departure Headway (s)	4.0	4.1	4.1	3.8								
Degree Utilization, x	0.07	0.04	0.04	0.02								
Capacity (veh/h)	873	857	844	913								
Control Delay (s)	7.3	7.3	7.3	6.9								
Approach Delay (s)	7.3	7.3	7.3	6.9								
Approach LOS	Α	Α	Α	Α								
Intersection Summary												
Delay			7.2									
Level of Service			Α									
Intersection Capacity Utiliza	ition		20.7%	IC	:U Level o	of Service			Α			
Analysis Period (min)			15									

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Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	1>		W	
Traffic Volume (veh/h)	0	38	29	7	19	20
Future Volume (Veh/h)	0	38	29	7	19	20
Sign Control		Free	Free		Yield	
Grade		0%	0%		0%	
Peak Hour Factor	0.72	0.72	0.72	0.72	0.72	0.72
Hourly flow rate (vph)	0	53	40	10	26	28
Pedestrians					7	
Lane Width (ft)					12.0	
Walking Speed (ft/s)					3.5	
Percent Blockage					1	
Right turn flare (veh)						
Median type		None	None			
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	57				105	52
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	57				105	52
tC, single (s)	4.1				6.5	6.2
tC, 2 stage (s)						
tF (s)	2.2				3.6	3.3
p0 queue free %	100				97	97
cM capacity (veh/h)	1550				863	1015
Direction, Lane #	EB 1	WB 1	SB 1			
Volume Total	53	50	54			
Volume Left	0	0	26			
Volume Right	0	10	28			
cSH	1550	1700	936			
Volume to Capacity	0.00	0.03	0.06			
Queue Length 95th (ft)	0	0	5			
Control Delay (s)	0.0	0.0	9.1			
Lane LOS			Α			
Approach Delay (s)	0.0	0.0	9.1			
Approach LOS			А			
Intersection Summary						
Average Delay			3.1			
Intersection Capacity Utiliz	zation		15.4%	IC	U Level o	of Service
Analysis Period (min)			15			

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Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥			ર્ન	î,	
Traffic Volume (veh/h)	8	11	4	14	12	0
Future Volume (Veh/h)	8	11	4	14	12	0
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.63	0.63	0.63	0.63	0.63	0.63
Hourly flow rate (vph)	13	17	6	22	19	0
Pedestrians	6				2	
Lane Width (ft)	12.0				12.0	
Walking Speed (ft/s)	3.5				3.5	
Percent Blockage	1				0	
Right turn flare (veh)	'					
Median type				None	None	
Median storage veh)				None	None	
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	61	25	25			
vC1, stage 1 conf vol	01	23	23			
vC2, stage 2 conf vol						
vCu, unblocked vol	61	25	25			
tC, single (s)	6.4	6.2	4.1			
tC, 2 stage (s)	0.4	0.2	4.1			
tF (s)	3.5	3.3	2.2			
p0 queue free %	99	98	100			
cM capacity (veh/h)	940	1051	1593			
Direction, Lane #	EB 1	NB 1	SB 1			
Volume Total	30	28	19			
Volume Left	13	6	0			
Volume Right	17	0	0			
cSH	1000	1593	1700			
Volume to Capacity	0.03	0.00	0.01			
Queue Length 95th (ft)	2	0	0			
Control Delay (s)	8.7	1.6	0.0			
Lane LOS	А	Α				
Approach Delay (s)	8.7	1.6	0.0			
Approach LOS	А					
Intersection Summary						
Average Delay			4.0			
Intersection Capacity Utiliza	ation		15.1%	IC	CU Level c	of Service
Analysis Period (min)			15			

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Movement	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	¥			र्स	f)		
Traffic Volume (veh/h)	8	21	4	10	22	3	
Future Volume (Veh/h)	8	21	4	10	22	3	
Sign Control	Stop			Free	Free		
Grade	0%			0%	0%		
Peak Hour Factor	0.57	0.57	0.57	0.57	0.57	0.57	
Hourly flow rate (vph)	14	37	7	18	39	5	
Pedestrians	10						
Lane Width (ft)	12.0						
Walking Speed (ft/s)	3.5						
Percent Blockage	1						
Right turn flare (veh)							
Median type				None	None		
Median storage veh)							
Upstream signal (ft)							
pX, platoon unblocked							
vC, conflicting volume	84	52	54				
vC1, stage 1 conf vol							
vC2, stage 2 conf vol							
vCu, unblocked vol	84	52	54				
tC, single (s)	6.4	6.2	4.1				
tC, 2 stage (s)							
tF (s)	3.5	3.3	2.2				
p0 queue free %	98	96	100				
cM capacity (veh/h)	910	1012	1549				
Direction, Lane #	EB 1	NB 1	SB 1				
Volume Total	51	25	44				
Volume Left	14	7	0				
Volume Right	37	0	5				
cSH	982	1549	1700				
Volume to Capacity	0.05	0.00	0.03				
Queue Length 95th (ft)	4	0	0				
Control Delay (s)	8.9	2.1	0.0				
Lane LOS	А	Α					
Approach Delay (s)	8.9	2.1	0.0				
Approach LOS	А						
Intersection Summary							
Average Delay			4.2				
Intersection Capacity Utiliza	tion		16.2%	IC	CU Level c	of Service	
Analysis Period (min)			15.270	10	2 201010	5011100	

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Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<b>1</b> >			4	¥	
Traffic Volume (veh/h)	26	8	7	32	23	19
Future Volume (Veh/h)	26	8	7	32	23	19
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.73	0.73	0.73	0.73	0.73	0.73
Hourly flow rate (vph)	36	11	10	44	32	26
Pedestrians					1	
Lane Width (ft)					12.0	
Walking Speed (ft/s)					3.5	
Percent Blockage					0	
Right turn flare (veh)						
Median type	None			None		
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume			48		106	42
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			48		106	42
tC, single (s)			4.1		6.4	6.2
tC, 2 stage (s)						
tF (s)			2.2		3.5	3.3
p0 queue free %			99		96	97
cM capacity (veh/h)			1571		889	1033
Direction, Lane #	EB 1	WB 1	NB 1			
Volume Total	47	54	58			
Volume Left	0	10	32			
Volume Right	11	0	26			
cSH	1700	1571	948			
Volume to Capacity	0.03	0.01	0.06			
Queue Length 95th (ft)	0	0	5			
Control Delay (s)	0.0	1.4	9.0			
Lane LOS		A	А			
Approach Delay (s)	0.0	1.4	9.0			
Approach LOS			Α			
Intersection Summary						
Average Delay			3.8			
Intersection Capacity Utiliza	ation		17.7%	IC	U Level o	of Service
Analysis Period (min)			15			
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Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations		7	<b>∱</b> ∱			<b>^</b>
Traffic Volume (veh/h)	0	1	687	2	0	1256
Future Volume (Veh/h)	0	1	687	2	0	1256
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.40	0.40	0.90	0.90	0.84	0.84
Hourly flow rate (vph)	0	3	763	2	0	1495
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type			None			None
Median storage veh)						
Upstream signal (ft)						160
pX, platoon unblocked	0.78					
vC, conflicting volume	1512	382			765	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	1098	382			765	
tC, single (s)	6.8	6.9			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	100			100	
cM capacity (veh/h)	165	621			857	
Direction, Lane #	WB 1	NB 1	NB 2	SB 1	SB 2	
Volume Total	3	509	256	748	748	
Volume Left	0	0	0	0	0	
Volume Right	3	0	2	0	0	
cSH	621	1700	1700	1700	1700	
Volume to Capacity	0.00	0.30	0.15	0.44	0.44	
Queue Length 95th (ft)	0	0	0	0	0	
Control Delay (s)	10.8	0.0	0.0	0.0	0.0	
Lane LOS	В					
Approach Delay (s)	10.8	0.0		0.0		
Approach LOS	В	0.0		3.0		
Intersection Summary						
Average Delay			0.0			
Intersection Capacity Utiliz	zation		38.1%	IC	U Level	of Service
Analysis Period (min)			15			

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Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations				4₽	<b>∱</b> }	
Traffic Volume (veh/h)	0	0	46	846	956	43
Future Volume (Veh/h)	0	0	46	846	956	43
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.92	0.92	0.44	0.91	0.94	0.57
Hourly flow rate (vph)	0	0	105	930	1017	75
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type				None	None	
Median storage veh)						
Upstream signal (ft)					382	
pX, platoon unblocked	0.88	0.88	0.88			
vC, conflicting volume	1730	546	1092			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	1563	224	842			
tC, single (s)	6.8	6.9	4.1			
tC, 2 stage (s)						
tF (s)	3.5	3.3	2.2			
p0 queue free %	100	100	85			
cM capacity (veh/h)	79	694	709			
Direction, Lane #	NB 1	NB 2	SB 1	SB 2		
Volume Total	415	620	678	414		
Volume Left	105	0	0	0		
Volume Right	0	0	0	75		
cSH	709	1700	1700	1700		
Volume to Capacity	0.15	0.36	0.40	0.24		
Queue Length 95th (ft)	13	0	0	0		
Control Delay (s)	4.3	0.0	0.0	0.0		
Lane LOS	А					
Approach Delay (s)	1.7		0.0			
Approach LOS						
Intersection Summary						
Average Delay			0.8			
Intersection Capacity Utiliz	zation		59.2%	IC	U Level of	Service
Analysis Period (min)			15	70	2 2010101	20.7100
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Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W		<b>∱</b> 1≽			41∱
Traffic Volume (veh/h)	12	20	881	18	27	932
Future Volume (Veh/h)	12	20	881	18	27	932
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Hourly flow rate (vph)	13	21	927	19	28	981
Pedestrians	24			.,		
Lane Width (ft)	12.0					
Walking Speed (ft/s)	3.5					
Percent Blockage	2					
Right turn flare (veh)						
Median type			None			None
Median storage veh)			None			None
Upstream signal (ft)			300			
pX, platoon unblocked	0.90	0.90	300		0.90	
vC, conflicting volume	1507	497			970	
vC1, stage 1 conf vol	1307	7//			770	
vC2, stage 2 conf vol						
vCu, unblocked vol	1342	220			746	
tC, single (s)	6.8	6.9			4.3	
tC, 2 stage (s)	0.0	0.7			4.3	
tF (s)	3.5	3.3			2.3	
p0 queue free %	89	97			96	
cM capacity (veh/h)	123	695			721	
Direction, Lane #	WB 1	NB 1	NB 2	SB 1	SB 2	
Volume Total	34	618	328	355	654	
Volume Left	13	0	0	28	0	
Volume Right	21	0	19	0	0	
cSH	251	1700	1700	721	1700	
Volume to Capacity	0.14	0.36	0.19	0.04	0.38	
Queue Length 95th (ft)	12	0	0	3	0	
Control Delay (s)	21.6	0.0	0.0	1.3	0.0	
Lane LOS	С			Α		
Approach Delay (s)	21.6	0.0		0.4		
Approach LOS	С					
Intersection Summary						
Average Delay			0.6			
Intersection Capacity Utiliz	ation		55.2%	IC	U Level	of Service
Analysis Period (min)			15			

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	4	18	10	8	18	2	6	2	0	2	8	16
Future Volume (vph)	4	18	10	8	18	2	6	2	0	2	8	16
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
Hourly flow rate (vph)	5	20	11	9	20	2	7	2	0	2	9	18
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total (vph)	36	31	9	29								
Volume Left (vph)	5	9	7	2								
Volume Right (vph)	11	2	0	18								
Hadj (s)	-0.10	0.02	0.16	-0.36								
Departure Headway (s)	3.9	4.0	4.2	3.7								
Degree Utilization, x	0.04	0.03	0.01	0.03								
Capacity (veh/h)	906	879	827	953								
Control Delay (s)	7.1	7.2	7.3	6.8								
Approach Delay (s)	7.1	7.2	7.3	6.8								
Approach LOS	Α	Α	Α	Α								
Intersection Summary												
Delay			7.0									
Level of Service			Α									
Intersection Capacity Utiliza	tion		19.4%	IC	U Level o	of Service			Α			
Analysis Period (min)			15									

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Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		î,			4
Traffic Volume (veh/h)	2	1	13	4	30	28
Future Volume (Veh/h)	2	1	13	4	30	28
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.38	0.38	0.38	0.38	0.38	0.38
Hourly flow rate (vph)	5	3	34	11	79	74
Pedestrians	1					6
Lane Width (ft)	12.0					12.0
Walking Speed (ft/s)	3.5					3.5
Percent Blockage	0					1
Right turn flare (veh)						
Median type			None			None
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	272	46			46	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	272	46			46	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	99	100			95	
cM capacity (veh/h)	684	1022			1573	
Direction, Lane #	WB 1	NB 1	SB 1			
Volume Total	8	45	153			
Volume Left	5	0	79			
Volume Right	3	11	0			
cSH	781	1700	1573			
Volume to Capacity	0.01	0.03	0.05			
Queue Length 95th (ft)	1					
0 , ,	9.7	0.0	4.0			
Control Delay (s)		0.0				
Lane LOS	Α	0.0	A			
Approach LOS	9.7	0.0	4.0			
Approach LOS	А					
Intersection Summary						
Average Delay			3.4			
Intersection Capacity Utiliz	zation		21.6%	IC	U Level o	of Service
Analysis Period (min)			15			

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Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	<b>f</b>		¥	
Traffic Volume (veh/h)	9	28	24	4	11	14
Future Volume (Veh/h)	9	28	24	4	11	14
Sign Control		Free	Free		Yield	
Grade		0%	0%		0%	
Peak Hour Factor	0.81	0.81	0.81	0.81	0.81	0.81
Hourly flow rate (vph)	11	35	30	5	14	17
Pedestrians					5	
Lane Width (ft)					12.0	
Walking Speed (ft/s)					3.5	
Percent Blockage					0	
Right turn flare (veh)						
Median type		None	None			
Median storage veh)		110110	110110			
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	40				94	38
vC1, stage 1 conf vol	10				, ,	30
vC2, stage 2 conf vol						
vCu, unblocked vol	40				94	38
tC, single (s)	4.1				6.4	6.4
tC, 2 stage (s)					0.1	0.1
tF (s)	2.2				3.5	3.4
p0 queue free %	99				98	98
cM capacity (veh/h)	1575				899	994
		14/D 4	00.4		077	777
Direction, Lane #	EB 1	WB 1	SB 1			
Volume Total	46	35	31			
Volume Left	11	0	14			
Volume Right	0	5	17			
cSH	1575	1700	949			
Volume to Capacity	0.01	0.02	0.03			
Queue Length 95th (ft)	1	0	3			
Control Delay (s)	1.8	0.0	8.9			
Lane LOS	А		Α			
Approach Delay (s)	1.8	0.0	8.9			
Approach LOS			Α			
Intersection Summary						
Average Delay			3.2			
Intersection Capacity Utili	ization		18.6%	IC	U Level c	f Service
Analysis Period (min)			15			

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Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥			र्स	ĵ.	
Traffic Volume (veh/h)	2	2	2	7	22	3
Future Volume (Veh/h)	2	2	2	7	22	3
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.67	0.67	0.67	0.67	0.67	0.67
Hourly flow rate (vph)	3	3	3	10	33	4
Pedestrians	3	_	-	1	3	
Lane Width (ft)	12.0			12.0	12.0	
Walking Speed (ft/s)	3.5			3.5	3.5	
Percent Blockage	0			0	0	
Right turn flare (veh)	, , , , , , , , , , , , , , , , , , ,			J		
Median type				None	None	
Median storage veh)				140110	110110	
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	57	39	40			
vC1, stage 1 conf vol	01	07	10			
vC2, stage 2 conf vol						
vCu, unblocked vol	57	39	40			
tC, single (s)	6.4	6.2	4.1			
tC, 2 stage (s)	0.1	0.2	1.1			
tF (s)	3.5	3.3	2.2			
p0 queue free %	100	100	100			
cM capacity (veh/h)	948	1034	1578			
Direction, Lane #	EB 1	NB 1	SB 1			
Volume Total	6	13	37			
Volume Left	3	3	0			
Volume Right	3	0	4			
cSH	989	1578	1700			
Volume to Capacity	0.01	0.00	0.02			
Queue Length 95th (ft)	0	0	0			
Control Delay (s)	8.7	1.7	0.0			
Lane LOS	Α	Α				
Approach Delay (s)	8.7	1.7	0.0			
Approach LOS	А					
Intersection Summary						
Average Delay			1.3			
Intersection Capacity Utiliza	ation		14.6%	IC	U Level o	of Service
Analysis Period (min)			15			

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Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥			ર્ન	f)	
Traffic Volume (veh/h)	0	31	2	9	24	2
Future Volume (Veh/h)	0	31	2	9	24	2
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.35	0.35	0.35	0.35	0.35	0.35
Hourly flow rate (vph)	0	89	6	26	69	6
Pedestrians	14					
Lane Width (ft)	12.0					
Walking Speed (ft/s)	3.5					
Percent Blockage	1					
Right turn flare (veh)						
Median type				None	None	
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	124	86	89			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	124	86	89			
tC, single (s)	6.4	6.3	4.1			
tC, 2 stage (s)						
tF (s)	3.5	3.4	2.2			
p0 queue free %	100	91	100			
cM capacity (veh/h)	861	946	1499			
Direction, Lane #	EB 1	NB 1	SB 1			
Volume Total	89	32	75			
Volume Left	0	6	0			
Volume Right	89	0	6			
cSH	946	1499	1700			
Volume to Capacity	0.09	0.00	0.04			
Queue Length 95th (ft)	8	0.00	0.04			
Control Delay (s)	9.2	1.4	0.0			
Lane LOS	9.2 A	1.4 A	0.0			
	9.2	1.4	0.0			
Approach Delay (s) Approach LOS		1.4	0.0			
	А					
Intersection Summary						
Average Delay			4.4			
Intersection Capacity Utiliz	zation		17.1%	IC	CU Level c	of Service
Analysis Period (min)			15			

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Movement EBT EBR WBL WBT NB	L NBR
	1
· · · · · · · · · · · · · · · · · · ·	4 0
	4 0
Sign Control Free Free Sto	
Grade 0% 0% 0	
Peak Hour Factor 0.88 0.88 0.88 0.88 0.88	
	5 0
Pedestrians	
Lane Width (ft)	
Walking Speed (ft/s)	
Percent Blockage	
Right turn flare (veh)	
Median type None None	
Median storage veh)	
Upstream signal (ft)	
pX, platoon unblocked	
vC, conflicting volume 47 10	4 42
vC1, stage 1 conf vol	
vC2, stage 2 conf vol	
vCu, unblocked vol 47 10	42
tC, single (s) 4.1 6.	4 6.2
tC, 2 stage (s)	
tF (s) 2.2 3.	5 3.3
	9 100
cM capacity (veh/h) 1573 89	0 1035
Direction, Lane # EB 1 WB 1 NB 1	
Volume Total 47 45 5	
Volume Left 0 17 5	
Volume Right 11 0 0	
cSH 1700 1573 890	
Volume to Capacity 0.03 0.01 0.01	
Queue Length 95th (ft) 0 1 0	
Control Delay (s) 0.0 2.8 9.1	
Lane LOS A A	
Approach Delay (s) 0.0 2.8 9.1	
Approach LOS A	
Intersection Summary	
Average Delay 1.8	
	el of Servic
Analysis Period (min) 15	

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Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations		7	ħβ			<b>^</b>
Traffic Volume (veh/h)	0	1	844	2	0	998
Future Volume (Veh/h)	0	1	844	2	0	998
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.50	0.50	0.91	0.91	0.93	0.93
Hourly flow rate (vph)	0	2	927	2	0	1073
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type			None			None
Median storage veh)						
Upstream signal (ft)						160
pX, platoon unblocked	0.88					
vC, conflicting volume	1464	464			929	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	1258	464			929	
tC, single (s)	6.8	6.9			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	100			100	
cM capacity (veh/h)	146	550			744	
Direction, Lane #	WB 1	NB 1	NB 2	SB 1	SB 2	
Volume Total	2	618	311	536	536	
Volume Left	0	0	0	0	0	
Volume Right	2	0	2	0	0	
cSH	550	1700	1700	1700	1700	
Volume to Capacity	0.00	0.36	0.18	0.32	0.32	
Queue Length 95th (ft)	0	0	0	0	0	
Control Delay (s)	11.6	0.0	0.0	0.0	0.0	
Lane LOS	В					
Approach Delay (s)	11.6	0.0		0.0		
Approach LOS	В					
Intersection Summary						
Average Delay			0.0			
Intersection Capacity Utiliz	zation		33.4%	IC	U Level	of Service
Analysis Period (min)			15			