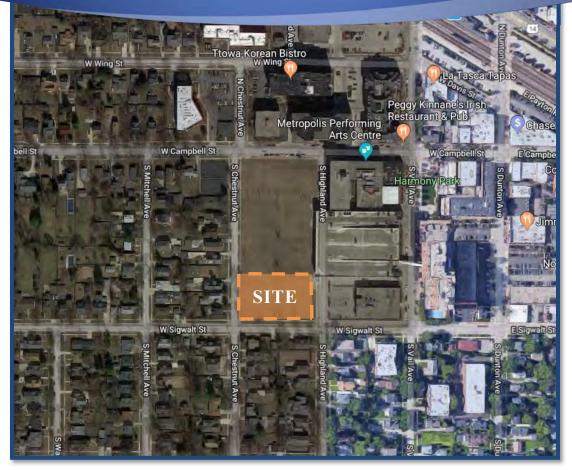
# Traffic Impact Study **Proposed Row Home Residential Development**

Arlington Heights, Illinois



# Prepared For: TaylorMorrison



## **1. Introduction**

This report summarizes the methodologies, results and findings of a traffic impact study conducted by Kenig, Lindgren, O'Hara, Aboona, Inc. (KLOA, Inc.) for the proposed residential row home development to be located in Arlington Heights, Illinois. The site is located on the north side of Sigwalt Street and is bounded by Highland Avenue on the east and Chestnut Avenue on the west.

The concept plans call for 16 row homes that will front Sigwalt Street, Chestnut Street, and Highland Avenue. Eight guest parking spaces are proposed on-site. Access to the individual row home garages and guest parking will be from a single access drive off Highland Avenue, north of Sigwalt Street.

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, and determine if any roadway or access improvements are necessary to accommodate traffic generated by the proposed development.

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 development
- Directional distribution of the development traffic
- Vehicle trip generation for the development
- Projected base traffic conditions that includes regional growth and background developments
- Future traffic conditions including access to the development
- Traffic analyses for the weekday morning and evening peak hours
- Recommendations with respect to adequacy of the site access and adjacent roadway system

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

- 1. Existing (Year 2018/2019) Conditions Analyzes the capacity of the existing roadway system using existing peak hour traffic volumes in the surrounding area.
- 2. Future (Year 2024) Conditions The future projected traffic volumes include the existing traffic volumes, ambient area growth not attributable to any particular development, traffic estimated to be generated by the proposed Arlington 425 residential development, and the traffic estimated to be generated by the proposed subject development.

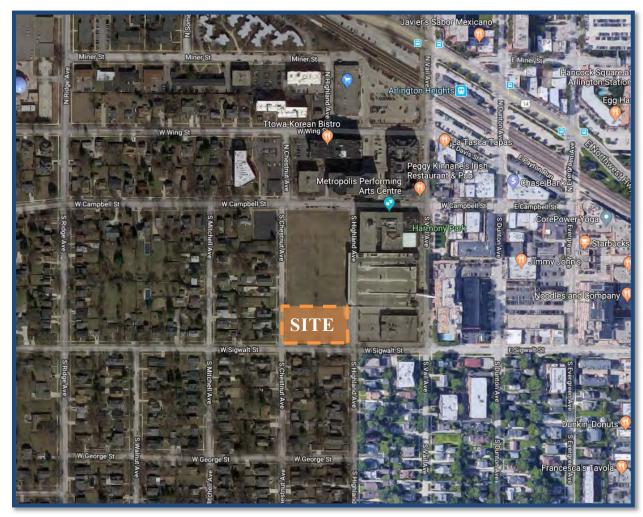




**Site Location** 

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 is located to the west of downtown Arlington Heights and is bounded by Sigwalt Street to the south, Chestnut Avenue to the west, and Highland Avenue to the east. The proposed Arlington 425 residential development borders the site to the north. The site is currently undeveloped and is within walking distance to the Arlington Heights Metra Station. Land uses in the vicinity of the site are residential to the north, west, and south and include the Arlington Heights Vail Street public parking garage and the Dunton Tower Luxury Apartments and the former AT&T development to the east.

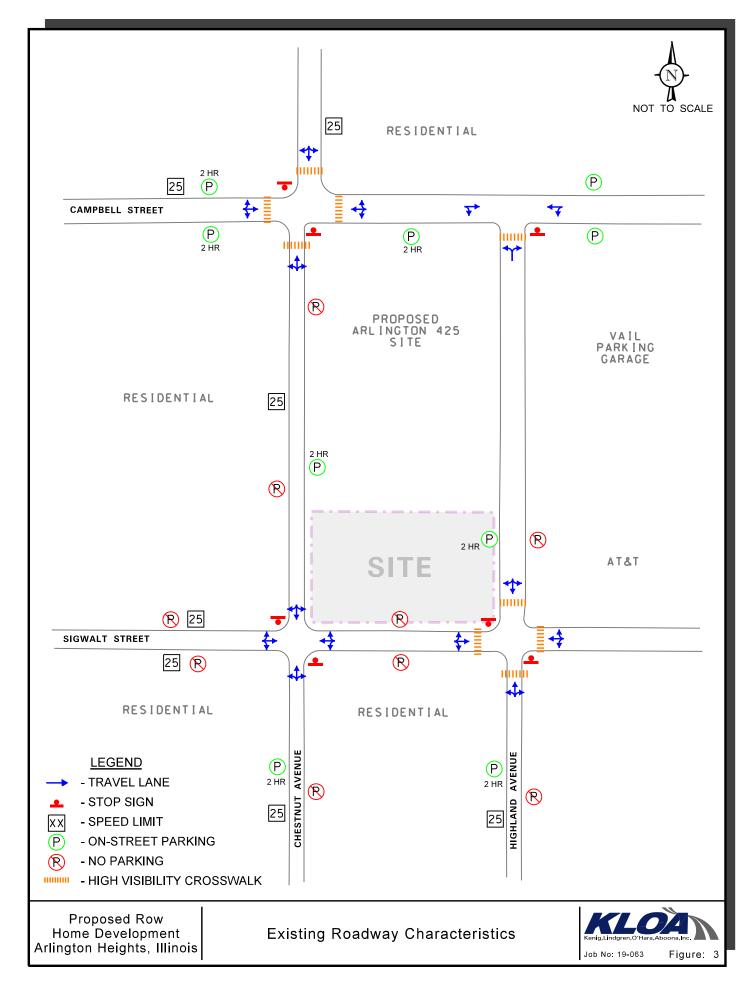
#### Existing Roadway System Characteristics

The characteristics of the existing roadways near the development are described below. **Figure 3** illustrates the existing roadway characteristics. All roadways have a posted speed limit of 25 mph and are under the jurisdiction of the Village of Arlington Heights, unless otherwise noted.

*Campbell Street* is an east west local roadway that provides one lane in each direction and extends from Rohlwing Road to Evergreen Avenue. At its unsignalized intersection with Highland Avenue, Campbell Street provides a shared through/right-turn lane on the eastbound approach and a shared through/left-turn lane on the westbound approach. A high visibility crosswalk is planned across Campbell Street on the east leg. Parking is generally provided on both sides of the roadway and is restricted to two-hours. Campbell Street is a designated bicycle route (signage only).

*Highland Avenue* is a north-south local roadway that provides one lane in each direction and extends from Campbell Street south to Central Road. At its unsignalized intersection with Sigwalt Street, Highland Avenue provides a single lane approach under stop-sign control and a high visibility crosswalk on both legs. At its unsignalized intersection with Campbell Street, Highland Avenue provides a shared left/right-turn lane under stop-sign control and a high visibility crosswalk on the south leg. It should be noted that between Campbell Street and Sigwalt Street, Highland Avenue traverses through the Arlington Heights Public Parking Garage, which provides parking on the west side of Highland Avenue and has two ramp access drives off Highland Avenue. South of the garage, there is a one-way exit only alley, and two full access drives serving the former AT&T development. Parking is prohibited on the east side of the roadway and is restricted to two-hours on the west side of the roadway. There are approximately five on-street parking garage.





*Sigwalt Street* is an east-west local roadway that in the vicinity of the site provides one lane in each direction. Parking is prohibited on both sides of the roadway between Highland Avenue and Chestnut Avenue.

#### Existing Traffic Volumes

In order to determine current traffic conditions in the vicinity of the site, KLOA, Inc. conducted manual peak period vehicle, pedestrian, and bicycle traffic counts using Miovision Scout Collection Units during the weekday morning (7:00 A.M. to 9:00 A.M.) and weekday evening (4:00 P.M. to 6:00 P.M.) peak periods at the following four (4) intersections:

- 1. Highland Avenue and Campbell Street (AM June 26, 2018; PM February 7, 2019)
- 2. Highland Avenue and Sigwalt Street (AM June 26, 2018; PM February 7, 2019)
- 3. Highland Avenue and North Garage Ramp (June 27, 2018)
- 4. Highland Avenue and South Garage Ramp (June 27, 2018)

The results of the traffic counts showed that the weekday morning peak hour of traffic generally occurs from 8:00 A.M. to 9:00 A.M. and the weekday evening peak hour of traffic generally occurs from 5:00 P.M. to 6:00 P.M.

Figure 4 illustrates the existing peak hour vehicle traffic volumes.

Figure 5 illustrates the existing peak hour pedestrian and bicycle traffic volumes.

#### Accident Analysis

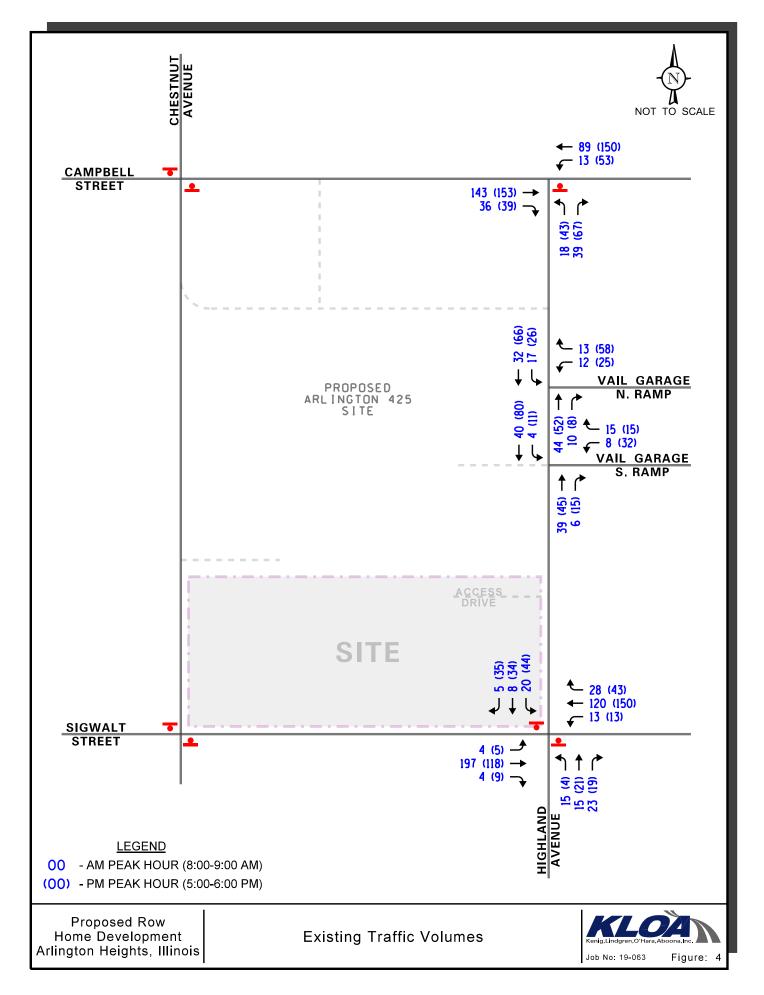
KLOA, Inc. obtained accident data from the Village of Arlington Heights and IDOT for the most recent available five years (2012 to 2016) for the studied intersections. **Table 1** summarizes the accident data for the intersections<sup>1</sup>. A review of the data showed that the intersections are not high accident locations and that no fatalities were reported.

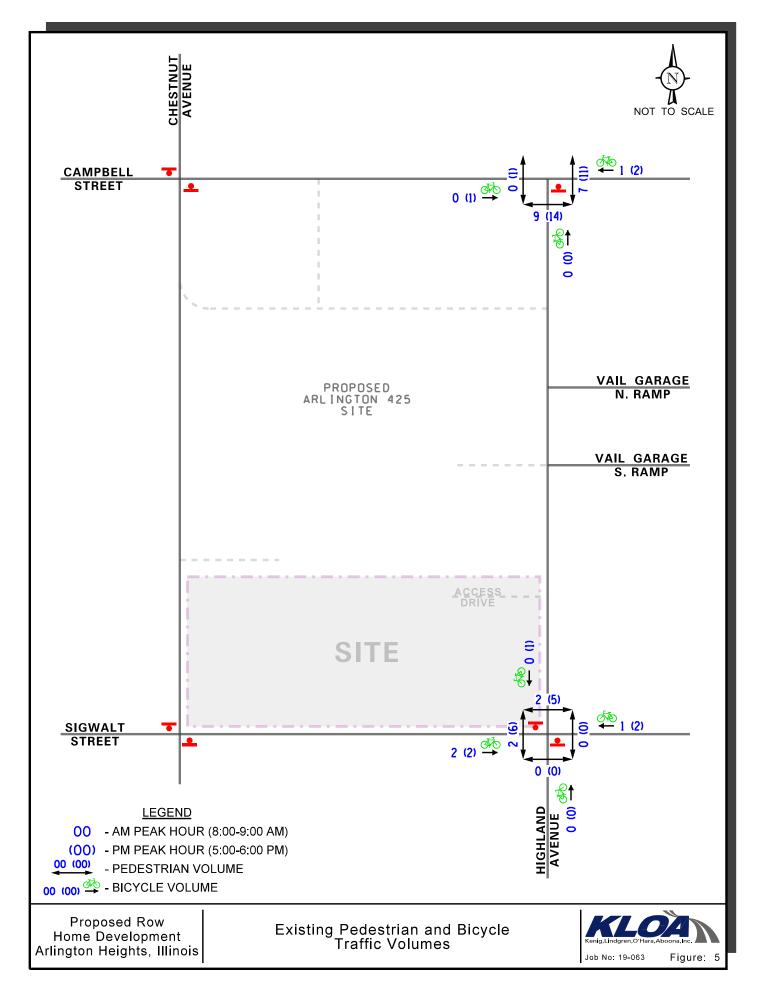
#### Year 2012 2014 2013 2015 2016 Intersection Highland Avenue with Campbell Street 0 4 0 2 1 Highland Avenue with Sigwalt Street 1 1 1 0 1

#### Table 1 ACCIDENT DATA SUMMARY



<sup>&</sup>lt;sup>1</sup> Disclaimer: The motor vehicle crash data referenced herein was partly provided by the Illinois Department of Transportation. The author is responsible for any data analyses and conclusions drawn.





#### **Public Transportation**

Sidewalks are provided on the surrounding roadway network and high-visibility or standard crosswalks are generally provided, as noted above. The intersection of Chestnut Avenue with Sigwalt Street does not provide crosswalks. Furthermore, the site is located approximately one-third of a mile walking distance from the Arlington Heights UP-NW Metra Station which offers daily service between Harvard/McHenry and Chicago.

The site is also within the vicinity of Pace Bus Route 696 (Randhurst/Woodfield/Harper College) which provides weekday service from Mt. Prospect to Palatine. Service operates from Randhurst Mall to Harper College. Rush hour service runs every 30 minutes and mid-day service runs every hour. This bus route serves the following major destinations: Randhurst Mall, Prospect H.S., Metra Union Pacific Northwest Line (Arlington Heights), Cook County Courthouse, Rolling Meadows Shopping Center, East Park, Mallard Cove, Woodfield Gardens, Motorola Headquarters, Schaumburg Convention Center, IKEA, Roosevelt University, Woodfield Mall, Pace Northwest Transportation Center, and Harper College.



## **3. Traffic Characteristics of the Proposed Development**

To evaluate the impact of the subject development on the area roadway system, it was necessary to quantify the number of vehicle trips the overall development will generate during the weekday morning and the weekday evening peak hours and then determine the directions from which this traffic will approach and depart the individual sites.

#### Proposed Development Plan

The concept plans call for 16 row homes that will front Sigwalt Street, Chestnut Street, and Highland Avenue.

#### Vehicle Access

Access to the individual row home garages and guest parking will be from a single access drive off Highland Avenue, located approximately 125 feet north of Sigwalt Street and approximately 155 feet south of the southerly ramp serving the Vail garage. The access will provide one lane inbound and one lane outbound allowing both left- and right-turning exiting movements. The outbound lane will be under stop sign control.

#### Parking

Each row home will provide individual garages and approximately eight guest parking spaces are proposed on-site.

#### Refuse

Refuse vehicles will serve the site from the proposed internal surface parking lot accessed from the proposed drive off Highland Avenue.

#### Directional Distribution

The directions from which vehicles will approach and depart the overall site were estimated based on existing travel patterns, as determined from the traffic counts, as well as the type and location of the access drives proposed to serve the development. Figure 6 illustrates the directional distribution of the development generated traffic. Figure 6 also shows the distance, in feet, between existing and proposed roadways.



#### Estimated Site Traffic Generation

The estimates of vehicle traffic to be generated by the development are based upon the proposed land use types and sizes. The volume of traffic generated was estimated using data published in the Institute of Transportation Engineers' (ITE) Trip Generation Manual, 10<sup>th</sup> Edition.

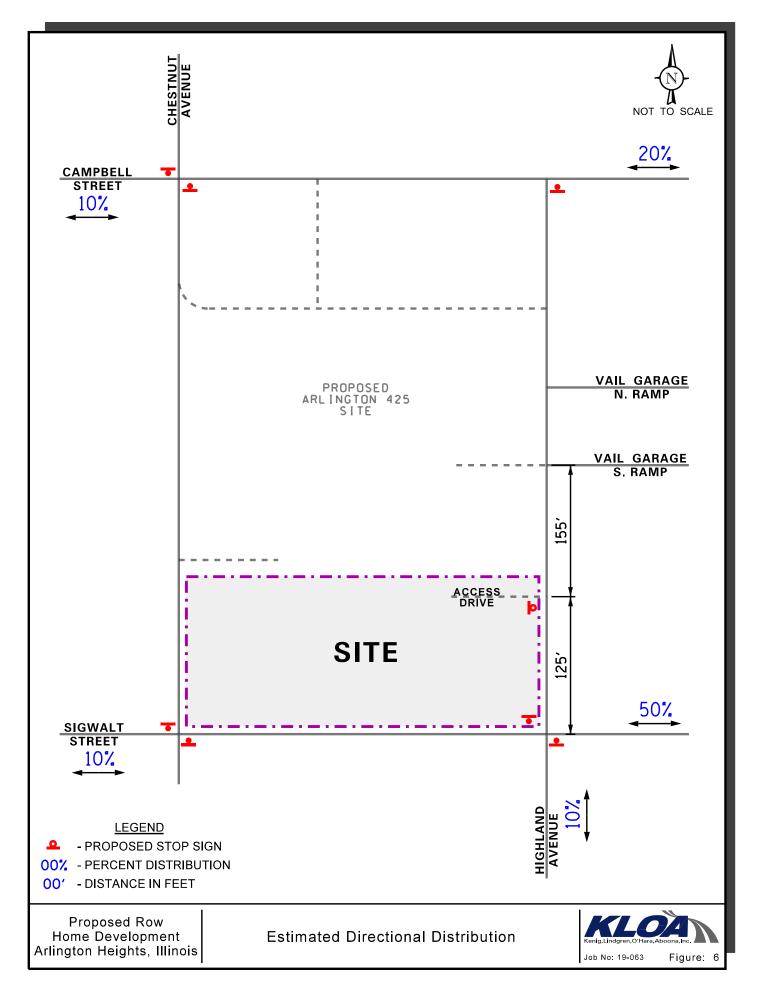
**Table 2** tabulates the total trips anticipated from this proposed development for the weekday morning and weekday evening peak hours, as well as the daily (two-way) traffic volumes. As shown, the development is estimated to generate a low volume of vehicle trips during peak commuting hours. It is further important to note that based on a review of the census data, approximately 15 percent of the residents located within one-quarter mile of the Metra station utilize alternative modes of transportation to get to work. As a result, the estimated number of generated trips may be further reduced. However, no reductions were applied to the trip generation shown in Table 2 to provide for a conservative study.

	Mo	ekday rning Hour	Eve	ekday ening Hour	Weekday Daily
Development/Size	In	Out	In	Out	Trips
LUC 220 – 16 row home units	2	6	7	5	80

 Table 2

 ESTIMATED VEHICLE TRIP GENERATION FOR THE PROPOSED DEVELOPMENT





## 4. Projected Traffic Conditions

The total projected traffic volumes include the existing traffic volumes increased by ambient growth, background traffic estimated to be generated by the proposed Arlington 425 residential development, and the traffic estimated to be generated by the proposed subject development.

#### Development Traffic Assignment

The estimated weekday morning and evening peak hour traffic volumes that will be generated by the proposed development were assigned to the roadway system in accordance with the previously described directional distribution (Figure 6). The traffic assignment is illustrated in **Figure 7**.

#### **Background Traffic Conditions**

The background traffic volumes include regional growth in traffic and traffic estimated to be generated by planned developments in the area, as described below.

#### **Regional Growth**

The existing traffic volumes (Figure 4) 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 Village of Arlington Heights 2015 Comprehensive Plan, an increase of one-half percent per year over six years (three percent total) was applied to the existing peak hour traffic volumes to project Year 2024 conditions.

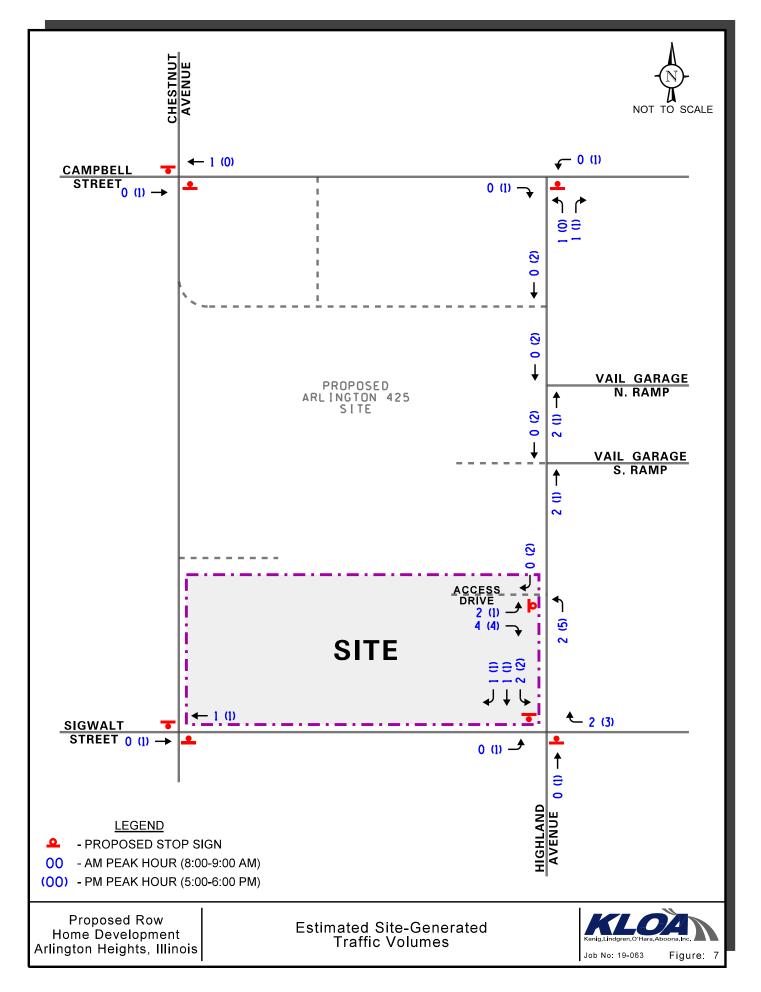
#### Planned Background Development

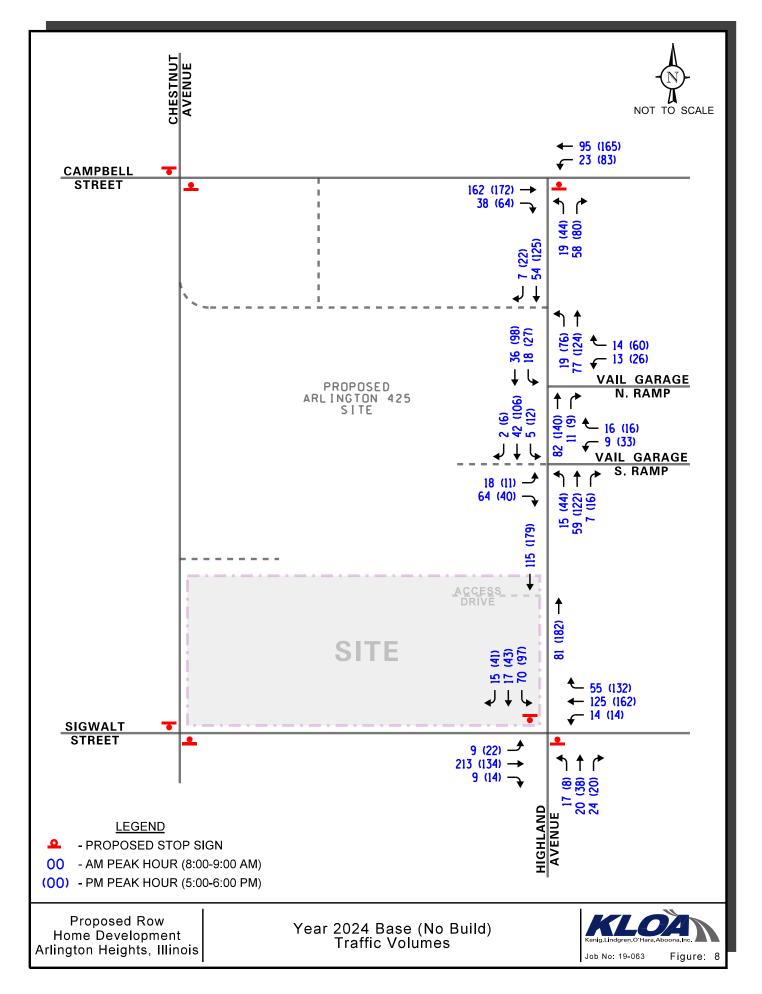
The traffic from the proposed Arlington 425 residential development was included in the Year 2024 base condition. The Arlington 425 residential development proposes an inbound only access drive and a residential access drive off Highland Avenue, located north of the access drive serving the proposed row home development. Further, access is proposed from Campbell Street and two access drives off Chestnut Avenue. Traffic assignment for the overall Arlington 425 development is included as **Figure A** and is located in the Appendix of this report. **Figure 8** shows the Year 2024 Base (No-Build) traffic volumes, which includes the regional growth in traffic and the traffic estimated to be generated by the proposed Arlington 425 residential development.

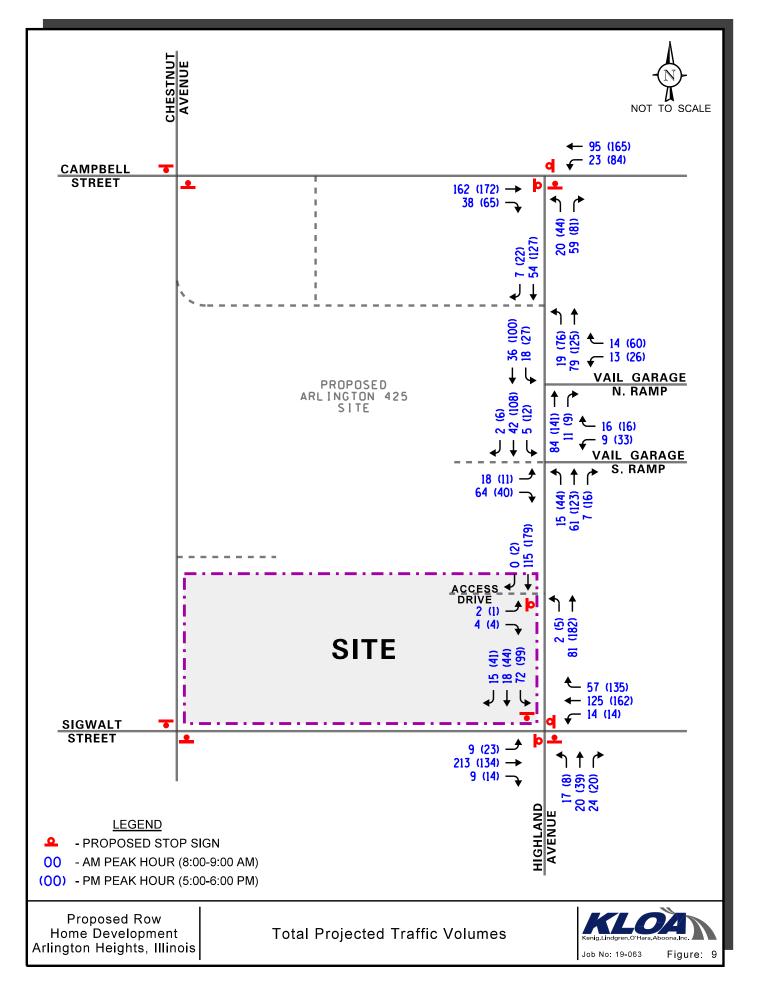
#### Total Projected Traffic Volumes

Total projected traffic volumes include the Year 2024 Base traffic volumes (Figure 8) and the traffic estimated to be generated by the proposed development (Figure 7). It is important to note that the existing pedestrian and bicycle traffic volumes (Figure 5) were increased to account for projected pedestrian activity in this area. **Figure 9** shows the total projected vehicle traffic volumes.









## 5. Traffic Analysis and Recommendations

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

#### Traffic Analyses

Roadway and adjacent or nearby intersection analyses were performed for the weekday morning and weekday evening peak hour periods for the existing (Year 2018/2019) and future projected (Year 2024) traffic volumes.

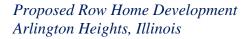
The traffic analyses were performed using the methodologies outlined in the Transportation Research Board's *Highway Capacity Manual (HCM)*, 2010 and analyzed using Synchro/SimTraffic computer software.

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.

Pedestrian and bicycle impacts are factored into the resulting levels of service and delay for each respective intersection. As noted, the existing pedestrian volumes were increased under projected traffic conditions to account for increased pedestrian activity in the area resulting from the proposed development. Further, the Village has plans to modify the traffic control at the intersections of Highland Avenue with Campbell Street and Sigwalt Street to be under all way stop sign control. As such, analyses for future conditions included these improvements.

Summaries of the traffic analysis results showing the level of service and overall intersection delay (measured in seconds) for the existing (Year 2018/2019) and Year 2024 total projected conditions are presented in **Tables 3** and **4**, respectively. A discussion of the intersections follows.





# Table 3 CAPACITY ANALYSIS RESULTS – EXISTING TRAFFIC CONDITIONS

		Morning Hour		/ Evening Hour
Intersection/Approach	LOS	Delay	LOS	Delay
Highland Avenue and Campbell Street				
Northbound Approach	В	10.1	В	12.3
Highland Avenue and Sigwalt Street				
Northbound Approach	В	12.8	В	11.9
Southbound Approach	В	14.3	В	14.1
Highland Avenue and North Garage Ramp				
Westbound Approach	А	9.0	А	9.3
Highland Avenue and South Garage Ramp				
Westbound Approach	А	8.8	А	9.5
LOS = Level of Service Delay is measured in seconds.				



# Table 4 CAPACITY ANALYSIS RESULTS – FUTURE TRAFFIC CONDITIONS

			Morning Hour		y Evening Hour
Inter	rsection/Approach	LOS	Delay	LOS	Delay
High	land and Campbell (All-Way Stop)				
•	Overall	А	8.4	А	9.6
•	Eastbound Approach	А	8.6	А	9.5
•	Westbound Approach	А	8.4	В	10.1
•	Northbound Approach	А	7.8	А	8.9
High	land Ave and Sigwalt St (All-Way Sto	op)			
•	Overall	В	11.1	В	10.9
•	Eastbound Approach	В	12.1	В	10.2
•	Westbound Approach	В	10.9	В	11.8
•	Northbound Approach	А	9.4	А	9.2
•	Southbound Approach	В	10.4	В	10.8
High	land Avenue and North Garage Ramp				
•	Westbound Approach	В	10.4	В	12.0
High	land Avenue and South Garage Ramp/	425 Access			
•	Eastbound Approach	В	10.6	В	11.8
•	Westbound Approach	В	10.9	С	15.5
High	land Avenue and Proposed Access				
•	Eastbound Approach	А	9.2	А	9.6
	= Level of Service y is measured in seconds.				



#### **Discussion and Recommendations**

The following summarizes how the intersections are projected to operate and identify any roadway and traffic control improvements to accommodate the development traffic.

#### Highland Avenue and Campbell Street

The northbound approach currently operates at a LOS B or better during the peak hours. For future conditions, the intersection was analyzed as an all way stop sign-control. The analyses show that northbound approach will continue to operate at acceptable levels of service during the peak hours with minimal increases in overall delay. The queue analysis shows that the northbound queue on Highland Avenue will not exceed one to two vehicles during peak hours. Furthermore, westbound left-turn movements from Campbell Street onto Highland Avenue are projected to continue operating at LOS A during the peak hours with increases in delay of less than one second and 95<sup>th</sup> percentile queues of one to two vehicles. The proposed development traffic will have a limited impact on the operations of this intersection. High-visibility crosswalks should be provided on the east and south legs of the intersection.

#### Highland Avenue and Sigwalt Street

This intersection was analyzed as an all way stop sign control. The analyses show that the overall intersection, as well as the individual approaches, will operate at an LOS B or better for both peak hours under projected conditions. The queue analysis shows that the queues on all four approaches will not exceed one to two vehicles during peak hours. The existing high-visibility crosswalks on all four legs should be restriped due to weathering/fading.

#### Highland Avenue and Proposed Access Drive

All of the independent row home garages and the guest parking will be accessed from a single, full access drive off Highland Avenue. The access will provide one lane inbound and one lane outbound. The outbound lane should be under stop sign control. A minimum of two on-street parking spaces on the west side of Highland Avenue will need to be removed to accommodate the access intersection. The capacity analyses show that this access intersection will operate at acceptable levels of service with minimal queuing and delay. The access drive is located south of the existing one-way westbound (exit) alley to the north, and north of the two access drives on the east side of Highland Avenue serving the former AT&T development, and therefore will not have turning movement conflicts with these existing access drives. Further, the proposed development is estimated to generate a low volume of traffic during peak commuting hours. As such, the introduction of this access drive will have a minimal impact on the projected traffic operations along Highland Avenue. A high-visibility crosswalk is recommended across the driveway approach.



#### Pedestrian Mobility

The development proposes a pedestrian network system both within the development, as well as along the site frontage of the surrounding roadways (Sigwalt Street, Chestnut Avenue, and Highland Avenue). Further, high-visibility crosswalks should be provided on surrounding intersections, as identified earlier in this study.



## 6. Conclusion

The plan for a 16-row home residential development is proposed to be located north of Sigwalt Street between Chestnut Avenue and Highland Avenue. Access to the individual row home unit garages and guest parking will be from a single, full access drive off Highland Avenue. Based on the preceding analyses and recommendations, the following conclusions have been made:

- The proposed overall development is located on the west portion of the Village of Arlington Height's downtown district, which provides retail, entertainment, and commercial uses, and experiences high pedestrian mobility and interactivity. A residential development in this area is considered a complementary land use to further support these convenient and nearby goods and services without requiring the use of an automobile.
- Accessibility to and from the proposed development and surrounding area is enhanced by the various alternative modes of transportation serving the area, including bus transit and pedestrian and bicycle amenities.
- The low volume of traffic estimated to be generated by the proposed development will be further reduced due to the alternative modes of transportation serving the area and the convenience and accessibility of nearby goods and services.
- The development-generated traffic can be accommodated without significant impact to the external roadway system. All of the intersections within the study limits are projected to operate at acceptable levels of service with the addition of the proposed development-generated traffic, regional growth in existing traffic, and the traffic estimated to be generated by the proposed Arlington 425 development.
- The capacity analyses show that the intersections of Highland Avenue with Campbell Street and Sigwalt Street will operate at acceptable levels of service under all way stop sign control. Both Sigwalt Street traffic and Campbell Street traffic are currently under freeflow conditions.
- The proposed full access off Highland Avenue serving the proposed development will provide one lane inbound and one lane outbound under stop sign control. A high-visibility crosswalk is recommended across the driveway approach.
- The projected low vehicle turning movements at the proposed access drive will have a low impact on the projected traffic operations along Highland Avenue between Sigwalt Street and Campbell Street that include the Vail garage ramps and the one-way westbound (exit) alley to the north and the two access drives serving the former AT&T development to the south.
- A minimum of two on-street parking spaces on the west side of Highland Avenue will need to be removed to accommodate the access intersection.



# Appendix

Site Plan Background Traffic Assignment Figure Traffic Counts Capacity Analysis

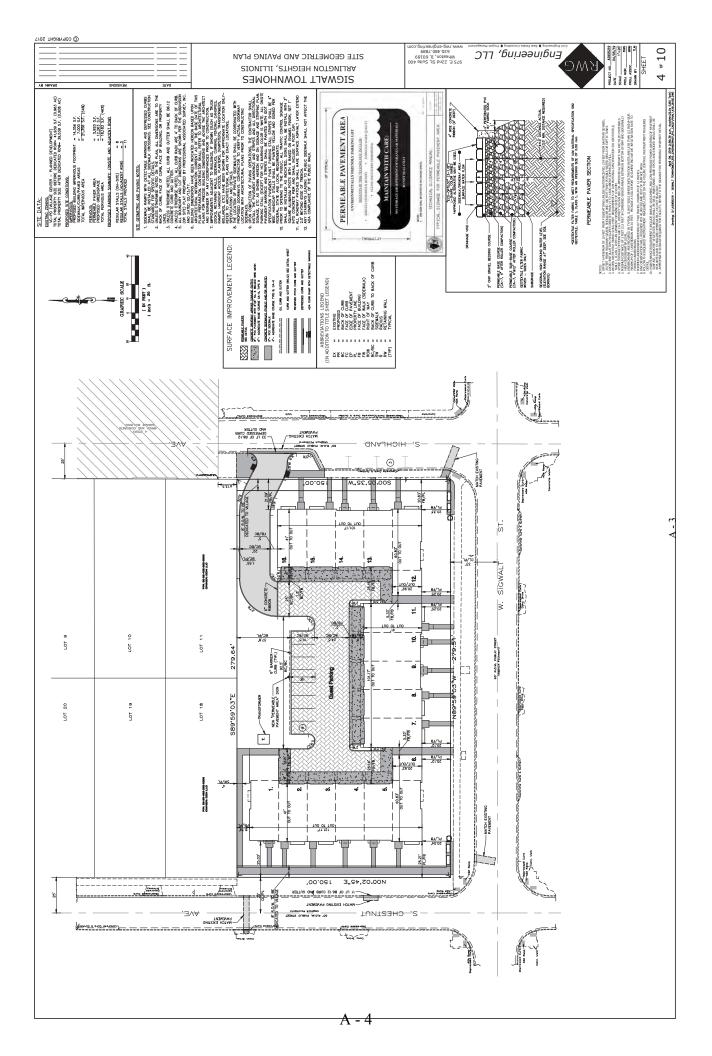


Proposed Row Home Development Arlington Heights, Illinois

A - 2

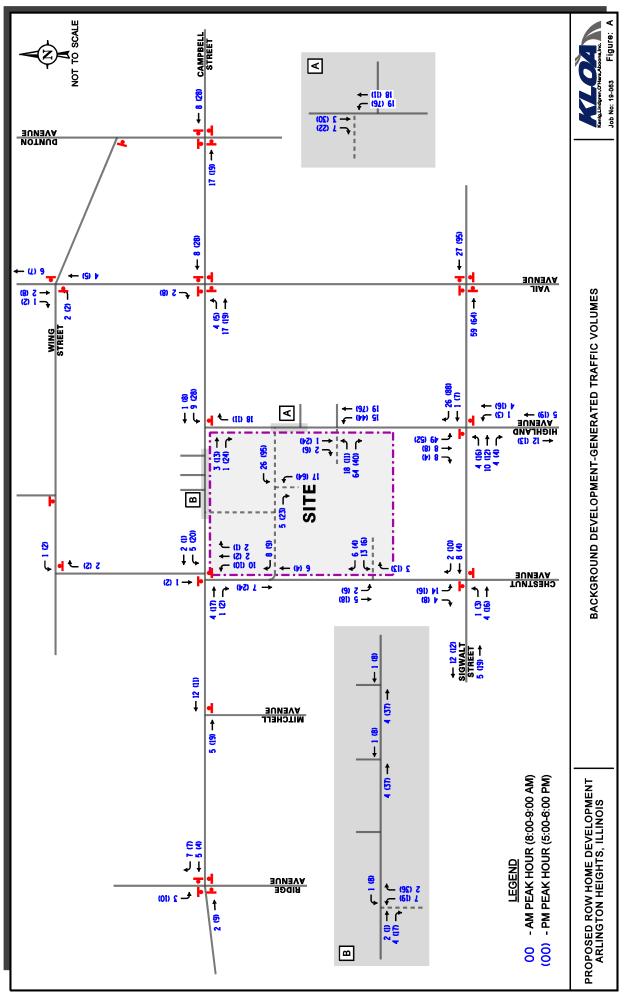
## Site Plan

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



# Background Traffic Assignment Figure





A - 5

A - 6

# Traffic Counts



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

Count Name: Campbell Street and Highland Avenue Site Code: Start Date: 06/26/2018 Page No: 1

			Int. Total	48	54	62	75	239	56	06	82	85	313		92	79	98	87	356	116	97	110	102	425	1333	-		1314	98.6	2	0.2	5	0.4	1	0.1	11	0.8		
			App. Total	13	15	11	10	49	8	16	18	15	57	•	14	7	11	6	41	25	22	28	16	91	238	-	17.9	234	98.3	1	0.4	0	0.0	0	0.0	3	1.3		
	Θ		Peds	4	3	1	2	10	1	0	3	5	6		9	5	9	3	20	5	0	1	8	14	53	-			,	-	-	-	-				-	53	100.0
	Highland Avenue	Northbound	Right	5	8	4	4	21	5	8	12	14	39		6	5	6	7	30	17	16	18	6	60	150	63.0	11.3	147	98.0	0	0.0	0	0.0	0	0.0	3	2.0		
			Left	8	7	7	9	28	3	8	9	٢	18		5	2	2	2	11	8	9	10	7	31	88	37.0	6.6	87	98.9	1	1.1	0	0.0	0	0.0	0	0.0		
			U-Turn	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	-		
			App. Total	15	14	18	21	68	18	22	21	19	80		36	27	43	30	136	48	45	40	35	168	452	-	33.9	440	97.3	1	0.2	4	0.9	1	0.2	9	1.3		
Data			Peds	1	3	5	4	13	3	1	1	2	7		e	2	0	0	5	3	2	1	5	11	36		ı	ı	ı	-	-	-	-				-	36	100.0
Turning Movement Data	Campbell Street	Westbound	Thru	15	14	16	18	63	16	18	17	16	67		30	22	40	24	116	38	35	31	16	120	366	81.0	27.5	356	97.3	1	0.3	4	1.1	1	0.3	4	1.1		
VoM Buir	)		Left	0	0	2	3	5	1	4	4	З	12		9	1	3	е	13	10	10	6	18	47	77	17.0	5.8	75	97.4	0	0.0	0	0.0	0	0.0	2	2.6		
Turr			U-Turn	0	0	0	0	0	1	0	0	0	1		0	4	0	3	7	0	0	0	1	1	6	2.0	0.7	6	100.0	0	0.0	0	0.0	0	0.0	0	0.0		
			App. Total	20	25	33	44	122	30	52	43	51	176		42	45	44	48	179	43	30	42	51	166	643	-	48.2	640	99.5	0	0.0	1	0.2	0	0.0	2	0.3		
			Peds	0	0	0	0	0	0	0	0	0	0		~	2	0	33	9	0	0	0	1	1	7					-			-					7	100.0
	Campbell Street	Eastbound	Right	11	8	13	17	49	8	13	5	10	36		5	5	9	12	28	7	7	9	8	28	141	21.9	10.6	140	99.3	0	0.0	٢	0.7	0	0.0	0	0.0		
	1		Thru	6	17	20	27	73	22	39	38	41	140		37	40	38	36	151	36	23	36	43	138	502	78.1	37.7	500	9.66	0	0.0	0	0.0	0	0.0	2	0.4		
			U-Turn	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			
		Ctort Time	otart Hitte	7:00 AM	7:15 AM	7:30 AM	7:45 AM	Hourly Total	8:00 AM	8:15 AM	8:30 AM	8:45 AM	Hourly Total	*** BREAK ***	4:00 PM	4:15 PM	4:30 PM	4:45 PM	Hourly Total	5:00 PM	5:15 PM	5:30 PM	5:45 PM	Hourly Total	Grand Total	Approach %	Total %	Lights	% Lights	Buses	% Buses	Single-Unit Trucks	% Single-Unit Trucks	Articulated Trucks	% Articulated Trucks	Bicycles on Road	% Bicycles on Road	Pedestrians	% Pedestrians

Kenla undern, Orlan, Abonna, Ina. Kenig Lindgren O'Hara, Abonna, Ina. 9575 W. Higgins Rd., Suite 400

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

Count Name: Campbell Street and Highland Avenue Site Code: Start Date: 06/26/2018 Page No: 2

a (8:00 AM)	
Turning Movement Peak Hour Data (	
Movement F	
Turning	

			Campbell Street					Campbell Street				-	Highland Avenue			
T 110			Eastbound					Westbound					Northbound			
otart time	U-Turn	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Left	Right	Peds	App. Total	Int. Total
8:00 AM	0	22	8	0	30	1	1	16	3	18	0	3	5	1	8	56
8:15 AM	0	39	13	0	52	0	4	18	1	22	0	8	8	0	16	06
8:30 AM	0	38	5	0	43	0	4	17	1	21	0	9	12	3	18	82
8:45 AM	0	41	10	0	51	0	3	16	2	19	0	1	14	5	15	85
Total	0	140	36	0	176	1	12	67	7	80	0	18	39	6	57	313
Approach %	0.0	79.5	20.5		-	1.3	15.0	83.8		-	0.0	31.6	68.4			
Total %	0.0	44.7	11.5		56.2	0.3	3.8	21.4		25.6	0.0	5.8	12.5		18.2	
PHF	0.000	0.854	0.692		0.846	0.250	0.750	0.931		0.909	0.000	0.563	0.696		0.792	0.869
Lights	0	140	35		175	1	12	63		76	0	18	39		57	308
% Lights		100.0	97.2		99.4	100.0	100.0	94.0		95.0		100.0	100.0		100.0	98.4
Buses	0	0	0		0	0	0	1		1	0	0	0		0	1
% Buses		0.0	0.0		0.0	0.0	0.0	1.5	T	1.3		0.0	0.0		0.0	0.3
Single-Unit Trucks	0	0	1		1	0	0	2		2	0	0	0		0	3
% Single-Unit Trucks	-	0.0	2.8		0.6	0.0	0.0	3.0		2.5	-	0.0	0.0		0.0	1.0
Articulated Trucks	0	0	0	·	0	0	0	0	Ţ	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	0		0	0	0	1		+	0	0	0		0	-
% Bicycles on Road		0.0	0.0		0.0	0.0	0.0	1.5		1.3		0.0	0.0		0.0	0.3
Pedestrians	,			0					7					6		
% Pedectrians									0 0 0 7							

Kenis, Underen, Orlanz, Aboone, Inc. Kenig Lindgren O'Hara Aboone, Inc. 9575 W. Higgins Rd., Suite 400

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

Count Name: Campbell Street and Highland Avenue Site Code: Start Date: 06/26/2018 Page No: 3

ning Movement Peak Hour Data (5:00 PM)

Application         Highland Amound           Campoid Struct         Monthoud           Start Time         Time         Highland Amound           Cart Time         Time         Highland Amound           Start Time         Time         Highland Amound           Colspan="6">Application         Untract Time         Highland Amound           Start Time         Highland Amound           Start Time         Highland Amound           Start Time         Highland Amound           Start Time          Time <th c<="" th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>(did 0.0.</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th>	<th></th> <th>(did 0.0.</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>											(did 0.0.							
Westerond         Notification           U-UTUR         Restorud           U-UTUR         Notification           U-UTUR         Tru         Region         U-UTUR         Region         Peric         Region           0         10 </th <th></th> <th></th> <th></th> <th></th> <th>Campbell Street</th> <th></th> <th></th> <th></th> <th>-</th> <th>Campbell Street</th> <th></th> <th></th> <th></th> <th>÷</th> <th>Highland Avenue</th> <th></th> <th></th> <th></th>					Campbell Street				-	Campbell Street				÷	Highland Avenue				
	1000	- mit			Eastbound					Westbound					Northbound				
	OLAN	aun	U-Turn	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Left	Right	Peds	App. Total	Int. Total	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	5:00	D PM	0	36	7	0	43	0	10	38	3	48	0	8	17	5	25	116	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	5:15	5 PM	0	23	7	0	30	0	10	35	2	45	0	9	16	0	22	26	
	5:30	0 PM	0	36	9	0	42	0	6	31	-	40	0	10	18	1	28	110	
	5:45	5 PM	0	43	8	1	51	1	18	16	5	35	0	7	6	8	16	102	
	Τc	otal	0	138	28	-	166	~	47	120	11	168	0	31	60	14	91	425	
	Appro	oach %	0.0	83.1	16.9			0.6	28.0	71.4	I		0.0	34.1	65.9				
	Tot	tal %	0.0	32.5	6.6		39.1	0.2	11.1	28.2		39.5	0.0	7.3	14.1		21.4		
	PI	HF	0.000	0.802	0.875		0.814	0.250	0.653	0.789		0.875	0.000	0.775	0.833		0.813	0.916	
	Lig	ghts	0	137	28		165	1	45	120		166	0	31	60		91	422	
	7 %	ights		99.3	100.0		99.4	100.0	95.7	100.0		98.8		100.0	100.0		100.0	99.3	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Bu	Ises	0	0	0		0	0	0	0		0	0	0	0		0	0	
	% B	suses		0.0	0.0		0.0	0.0	0.0	0.0		0.0		0.0	0.0		0.0	0.0	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Single-U	nit Trucks	0	0	0		0	0	0	0	·	0	0	0	0		0	0	
	% Single-I	Unit Trucks		0.0	0.0	1	0.0	0.0	0.0	0.0		0.0		0.0	0.0	ı	0.0	0.0	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Articulate	ed Trucks	0	0	0	1	0	0	0	0	I	0	0	0	0	I	0	0	
0         1         0         -         1         0         2         0         -         2         0         0         0         -         0         0         -         0         0         -         1	% Articula	ated Trucks		0.0	0.0		0.0	0.0	0.0	0.0	I	0.0		0.0	0.0		0.0	0.0	
-     0.7     0.0     -     0.6     0.0     4.3     0.0     -     1.2     -     0.0     0.0     -     0.0       -     -     -     1     -     -     -     1     -     0.0       -     -     -     1     -     -     -     1     -     14     -       -     -     100.0     -     -     100.0     -     -     100.0     -	Bicycles	s on Road	0	-	0		-	0	2	0	I	2	0	0	0		0	e	
-     -     1     -     -     14       -     -     -     -     -     14       -     -     -     -     -     14	% Bicycle	es on Road		0.7	0.0		0.6	0.0	4.3	0.0		1.2		0.0	0.0		0.0	0.7	
100.0 100.0	Pede	strians				1					11					14			
	% Pedt	estrians		ı		100.0			·	ı	100.0				ı	100.0		'	

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

Count Name: Campbell St and Chestnut Ave Site Code: Start Date: 08/08/2017 Page No: 1

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			Campbell Ave Eastbound	ell Ave					Westbound	und und					Northbound	ound					Southbound	nnd		
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	0	2	24	1	0	27	0	0	18	3	2	21	0	0	2	0	3	2	0	2	4	1	3	7
	0	5	26	0	1	31	0	0	22	2	1	24	0	1	1	0	0	2	0	1	3	2	5	6
1	0	0	43	5	3	48	0	1	25	2	4	28	0	2	4	0	2	6	0	0	4	1	5	5
Hourly Total	0	11	117	9	4	134	0	+	89	6	10	66	0	з	80	2	00	13	0	3	16	9	15	25
8:00 AM	0	2	34	+	-	37	0	+	25	+	1	27	0	0	-	0	2	1	0	2	1	2	+	5
8:15 AM	0	ю	38	-	-	42	0	0	28	2	e	30	0	2	0	0	-	2	0	2	2	2	e	9
8:30 AM	0	9	38	1	1	45	0	1	28	1	0	30	0	1	1	0	2	2	0	1	2	2	1	5
8:45 AM	0	2	43	3	1	48	0	0	26	2	2	28	0	1	2	2	2	5	0	1	0	2	2	3
Hourly Total	0	13	153	9	4	172	0	2	107	9	9	115	0	4	4	2	7	10	0	9	5	8	7	19
*** BREAK ***																								
4:00 PM	0	7	53	0	2	60	0	0	29	+	-	30	0	e	0	0	5	e	0	-	2	9	0	6
4:15 PM	0	4	35	0	-	39	0	0	38	2	1	40	0	9	-	0	0	7	0	0	2	7	2	6
4:30 PM	0	9	24	0	1	30	1	2	30	5	0	38	0	2	2	0	2	4	0	3	1	9	0	10
4:45 PM	0	з	33	4	0	40	0	0	31	2	0	33	0	2	2	з	2	7	0	-	с	з	2	7
Hourly Total	0	20	145	4	4	169	+	2	128	10	2	141	0	13	5	з	6	21	0	5	8	22	4	35
5:00 PM	0	2	40	з	0	45	0	0	34	0	0	34	0	4	2	2	2	8	0	-	1	6	2	11
5:15 PM	0	7	41	2	0	50	2	2	26	3	0	33	0	4	2	0	0	9	0	-	-	5	0	7
5:30 PM	0	5	29	4	0	38	1	5	35	9	2	47	0	4	-	2	4	7	0	5	2	3	4	10
5:45 PM	0	9	50	3	1	59	2	٢	31	3	4	37	0	2	8	3	9	13	0	3	4	2	10	6
Hourly Total	0	20	160	12	1	192	5	8	126	12	9	151	0	14	13	7	12	34	0	10	8	19	16	37
Grand Total	0	64	575	28	13	667	9	13	450	37	24	506	0	34	30	14	36	78	0	24	37	55	42	116
Approach %	0.0	9.6	86.2	4.2			1.2	2.6	88.9	7.3			0.0	43.6	38.5	17.9		,	0.0	20.7	31.9	47.4		,
Total %	0.0	4.7	42.1	2.0		48.8	0.4	1.0	32.9	2.7		37.0	0.0	2.5	2.2	1.0		5.7	0.0	1.8	2.7	4.0		8.5
Lights	0	60	564	27		651	9	13	440	35		494	0	34	27	13		74	0	24	34	53		111
% Lights	'	93.8	98.1	96.4		97.6	100.0	100.0	97.8	94.6		97.6		100.0	90.06	92.9		94.9	,	100.0	91.9	96.4		95.7
Buses	0	0	0	0		0	0	0	0	0	,	0	0	0	2	0	,	2	0	0	0	0	,	0
% Buses		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	1	0.0		0.0	6.7	0.0	,	2.6		0.0	0.0	0.0	ı	0.0
Single-Unit Trucks	0	0	7	0		7	0	0	5	2		7	0	0	-	-		2	0	0	-	2		e
% Single-Unit Trucks		0.0	1.2	0.0	,	1.0	0.0	0.0	1.1	5.4		1.4		0.0	3.3	7.1		2.6		0.0	2.7	3.6		2.6
Articulated Trucks	0	-	-	0		2	0	0	0	0		0	0	0	0	0		0	0	0	0	0		0
% Articulated Trucks		1.6	0.2	0.0		0.3	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
Bicycles on Road	0	3	3	-		7	0	0	5	0		5	0	0	0	0		0	0	0	2	0		2
% Bicycles on Road		4.7	0.5	3.6		1.0	0.0	0.0	1.1	0.0		1.0		0.0	0.0	0.0		0.0		0.0	5.4	0.0		1.7
Pedestrians					13						10													

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

Count Name: Campbell St and Chestnut Ave Site Code: Start Date: 08/08/2017 Page No: 3

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   | U-Turn  
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   | Right   | Peds  | App.<br>Total   | U-Turn | Left  | Thru   
   | Right   | Peds  |  | nt. Total  |  |
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        - | Campbell Ave<br>Eastbound         Campbell Ave<br>Eastbound           Left         Thru         Right         Peds         App<br>Total           2         34         1         1         37           3         38         1         1         42           6         38         1         1         46           13         153         6         4         172           7.6         89.0         3.5         -         -           13         151         6         -         172           13         151         6         -         170           100         98.7         100.0         -         0.866           13         151         6         -         172           100         98.7         100.0         -         0.0           0         0         0         -         0.0         0.0           0.0         1.3         0.0         -         1.2         1.2           0.0         0.0         0.0         -         1.2         0.0           0.0         0.0         0.0         -         0.0         0.0           0.0         0.0 </th <th>Campbell Ave<br/>Eastbound         Campbell Ave<br/>Eastbound           Left         Thru         Right         Peds         App.<br/>Tobal         U-Turn           2         34         1         1         37         0           2         34         1         1         42         0           3         1         1         42         0         0           2         33         1         14         0         0           3         3         1         44         0         0           4.1         48.4         1.9         - 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        -         00           13         151         6         -         170         0           13         151         6         -         170         0           100         98.7         100         -         98.8         -         00           100         0         0         -         170         0         0         0           1100         98.7         100         -         172         0         0         0           0         0         0         0         0         0         0         0         0<!--</th--><th>Campbell Ave<br/>Eastbound         Campbell Ave<br/>Eastbound         Campbell Ave<br/>Eastbound         Campbell Ave<br/>Eastbound         Campbell Ave<br/>Eastbound         Campbell Ave<br/>Eastbound         Campbell Ave<br/>Ave<br/>Call         Campbell Ave<br/>Ave<br/>Call         Cambbell Ave<br/>Ave<br/>Call         Cambbell Ave<br/>Ave<br/>Call         Cambbell Ave<br/>Ave<br/>Call         Call         Call         Vec<br/>Call         Call         Vec<br/>Call         Vec<br/>Call</th><th>Campbell Ave<br/>Eastbound         Campbell Ave<br/>Eastbound         Campbell Ave<br/>Eastbound         Campbell Ave<br/>Eastbound         Campbell Ave<br/>Eastbound         Campbell Ave<br/>App,<br/>3         Campbell Ave<br/>App,<br/>3         Campbell Ave<br/>App,<br/>3         Cambbell A</th><th>Campbell Ave<br/>Eastbound         Campbell Ave<br/>Eastbound         Campbell Ave<br/>Total         <th< th=""><th>Campbell Ave<br/>Eastbound         Campbell Ave<br/>Eastbound         Campbell Ave<br/>Total         <th< th=""><th>Campbell Ave<br/>Eastbound         Campbell Ave<br/>Eastbound         Campbell Ave<br/>Total         <th< th=""><th>Campbell Ave<br/>Eastbound         Campbell Ave<br/>Eastbound         Campbell Ave<br/>Eastbound         Campbell Ave<br/>Eastbound         Campbell Ave<br/>Eastbound         Campbell Ave<br/>App         Ve           2         34         1         1         37         0         1         25           3         1         1         1         37         0         1         25           3         3         1         1         42         0         0         28           4         3         1         44         12         0         0         28           5         43         3         1         48         0         0         0         28           13         153         6         -         170         0         28         339           054         35         -         54.4         0.0         28         339           151         6         -         1700         0         0         26         39           050         0.0         0.0         0         0         0         0         0         39         39           051         151         6         -         177         390         39<!--</th--><th>Campbell Ave<br/>Eastbound         Campbel St<br/>Eastbound         Campbel St<br/>Weetbound         Northom           2         34         1         1         37         0         1         25         1         1         27         0         0         1           3         38         1         1         44         25         1         1         27         0         2         1         1         1         1         1           2         38         1         1         44         72         0         2         0         1         1         1         1           2         43         153         6         339         19         5         2         2         0         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1<!--</th--><th>Campbel Ave<br/>Eastbound         Campbel St<br/>Eastbound         Campbel St<br/>Notthound         Comptone         Notthound           2         34         1         1         37         0         1         25         1         1         27         0         0         1         0         0         1         0         0         1         0         0         1         0         0         1         0         0         0         1         1         1         0         0         1         1         1         1         1         0         0         1         0         0         1         0         0         1         0         0         1         1         1         1         1         1         1         1         1         1         0         1         1         1         1         1         0         1         0         0         0         0         0         0         0         0         0         0         0</th><th><math display="block"> \begin{array}{llllllllllllllllllllllllllllllllllll</math></th><th></th><th></th><th>Campbel National Technologie         Campbel State         Campp State         Campbel State<th>Campbell Ave<br/>Essentionid         Campbell St.         Campbell St.         Campbell St.           Left         Thru         Right         Pedis         Applet<br/>Colspan="12"&gt;Campbell St.         Campbell St.           2         34         1         1         37         0         1         25         1         1         27         0         1         2         1         0         2           3         38         1         1         42         0         1         26         3         1         2         1         0         2         1         0         2         1         0         2         1         0         2         1         1         26         1         1         2         1         1         2         1         1         2         1         1         2         1         1         2         1         1         2         1         1         2         1         1         2         1         1         2         1         1         1         1         1         1   
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        -         00           13         151         6         -         170         0           13         151         6         -         170         0           100         98.7         100         -         98.8         -         00           100         0         0         -         170         0         0         0           1100         98.7         100         -         172         0         0         0           0         0         0         0         0         0         0         0         0<!--</th--><th>Campbell Ave<br/>Eastbound         Campbell Ave<br/>Eastbound         Campbell Ave<br/>Eastbound         Campbell Ave<br/>Eastbound         Campbell Ave<br/>Eastbound         Campbell Ave<br/>Eastbound         Campbell Ave<br/>Ave<br/>Call         Campbell Ave<br/>Ave<br/>Call         Cambbell Ave<br/>Ave<br/>Call         Cambbell Ave<br/>Ave<br/>Call         Cambbell Ave<br/>Ave<br/>Call         Call         Call         Vec<br/>Call         Call         Vec<br/>Call         Vec<br/>Call</th><th>Campbell Ave<br/>Eastbound         Campbell Ave<br/>Eastbound         Campbell Ave<br/>Eastbound         Campbell Ave<br/>Eastbound         Campbell Ave<br/>Eastbound         Campbell Ave<br/>App,<br/>3         Campbell Ave<br/>App,<br/>3         Campbell Ave<br/>App,<br/>3         Cambbell A</th><th>Campbell Ave<br/>Eastbound         Campbell Ave<br/>Eastbound         Campbell Ave<br/>Total         <th< th=""><th>Campbell Ave<br/>Eastbound         Campbell Ave<br/>Eastbound         Campbell Ave<br/>Total         <th< th=""><th>Campbell Ave<br/>Eastbound         Campbell Ave<br/>Eastbound         Campbell Ave<br/>Total         <th< th=""><th>Campbell Ave<br/>Eastbound         Campbell Ave<br/>Eastbound         Campbell Ave<br/>Eastbound         Campbell Ave<br/>Eastbound         Campbell Ave<br/>Eastbound         Campbell Ave<br/>App         Ve           2         34         1         1         37         0         1         25           3         1         1         1         37         0         1         25           3         3         1         1         42         0         0         28           4         3         1         44         12         0         0         28           5         43         3         1         48         0         0         0         28           13         153         6         - 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        -         00           13         151         6         -         170         0           13         151         6         -         170         0           100         98.7         100         -         98.8         -         00           100         0         0         -         170         0         0         0           1100         98.7         100         -         172         0         0         0           0         0         0         0         0         0         0         0         0 </th <th>Campbell Ave<br/>Eastbound         Campbell Ave<br/>Eastbound         Campbell Ave<br/>Eastbound   
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        0.0         0.0         0         0         0         0         0         39         39           051         151         6         -         177         390         39<!--</th--><th>Campbell Ave<br/>Eastbound         Campbel St<br/>Eastbound         Campbel St<br/>Weetbound         Northom           2         34         1         1         37         0         1         25         1         1         27         0         0         1           3         38         1         1         44         25         1         1         27         0         2         1         1         1         1         1           2         38         1         1         44         72         0         2         0         1         1         1         1           2         43         153         6         339         19         5         2         2         0         1         1         1         1         1         1         1         1         1         1         1         1         1         1       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        170         0         28         339           054         35         -         54.4         0.0         28         339           151         6         -         1700         0         0         26         39           050         0.0         0.0         0         0         0         0         0         39         39           051         151         6         -         177         390         39<!--</th--><th>Campbell Ave<br/>Eastbound         Campbel St<br/>Eastbound         Campbel St<br/>Weetbound         Northom           2         34         1         1         37         0         1         25         1         1         27         0         0         1           3         38         1         1         44         25         1         1         27         0         2         1         1         1         1         1           2         38         1         1         44         72         0         2         0         1         1         1         1           2         43         153         6         339         19         5         2         2         0         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1<!--</th--><th>Campbel Ave<br/>Eastbound         Campbel St<br/>Eastbound         Campbel St<br/>Notthound         Comptone         Notthound           2         34         1         1         37         0         1         25         1         1         27         0         0         1         0         0         1         0         0         1         0         0         1         0         0         1         0         0         0         1         1         1         0         0         1         1         1         1         1         0         0         1         0         0         1         0         0         1         0         0         1         1         1         1         1         1         1         1         1         1         0         1         1         1         1         1         0         1         0         0         0         0         0         0         0         0         0         0         0</th><th><math display="block"> \begin{array}{llllllllllllllllllllllllllllllllllll</math></th><th></th><th></th><th>Campbel National Technologie         Campbel State         Campp State         Campbel State<th>Campbell Ave<br/>Essentionid         Campbell St.         Campbell St.         Campbell St.           Left         Thru         Right         Pedis         Applet<br/>Colspan="12"&gt;Campbell St.         Campbell St.           2         34         1         1         37         0         1         25         1         1         27         0         1         2         1         0         2           3         38         1         1         42         0         1         26         3         1         2         1         0         2         1         0         2         1         0         2         1         0         2         1         1         26         1         1         2         1         1         2         1         1         2         1         1         2         1         1         2         1         1         2         1         1         2         1         1         2         1         1         2         1         1         1         1         1         1         1         1         1         1         1         1         1         1</th><th></th><th>Champed free         Compare         <th colspa<="" th=""><th>Characterization         Characterization         Characterization           Campond         Campond         Characterization           Campond         Characterization         Characterization           Campond         Campond         Characterization           Campond         Campond         Characterization           Campond         Campond         Characterization           Campond         Campond         Characterization           Campond         Characterization         Characterization           Campond         Campond         Campond&lt;</th></th></th></th></th></th></th<></th></th<> | Campbell Ave<br>Eastbound         Campbell Ave<br>Eastbound         Campbell Ave<br>Total         Campbell Ave<br>Total <th< th=""><th>Campbell Ave<br/>Eastbound         Campbell Ave<br/>Eastbound         Campbell Ave<br/>Eastbound         Campbell Ave<br/>Eastbound         Campbell Ave<br/>Eastbound         Campbell Ave<br/>App         Ve           2         34         1         1         37         0         1         25           3         1         1         1         37         0         1         25           3         3         1         1         42         0         0         28           4         3         1         44         12         0         0         28           5         43         3         1         48         0         0         0         28           13         153         6         -         170         0         28         339           054         35         -         54.4         0.0         28         339           151         6         -         1700         0         0         26         39           050         0.0         0.0         0         0         0         0         0         39         39           051         151         6         -         177         390         39<!--</th--><th>Campbell Ave<br/>Eastbound         Campbel St<br/>Eastbound         Campbel St<br/>Weetbound         Northom           2         34         1         1         37         0         1         25         1         1         27         0         0         1           3         38         1         1         44         25         1         1         27         0         2         1         1         1         1         1           2         38         1         1         44         72         0         2         0         1         1         1         1           2         43         153         6         339         19         5         2         2         0         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1<!--</th--><th>Campbel Ave<br/>Eastbound         Campbel St<br/>Eastbound         Campbel St<br/>Notthound         Comptone         Notthound           2         34         1         1         37         0         1         25         1         1         27         0         0         1         0         0         1         0         0         1         0         0         1         0         0         1         0         0         0         1         1         1         0         0         1         1         1         1         1         0         0         1         0         0         1         0         0         1         0         0         1         1         1         1         1         1         1         1         1         1         0         1         1         1         1         1         0         1         0         0         0         0         0         0         0         0        
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Kenig Lindgren, O'Hara, Abcona, Inc. B575 W. Higgins Rd., Suite 400

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

Count Name: Campbell St and Chestnut Ave Site Code: Start Date: 08/08/2017 Page No: 4

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			Camp East	Campbell Ave Eastbound					Campbell St Westbound	ound					Chestnut Ave Northbound	ut Ave ound					Chestnut Ave Southbound	ut Ave ound			
Start Time	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	Int. Total
5:00 PM	0	2	40	ю	0	45	0	0	34	0	0	34	0	4	2	2	2	8	0	-	-	6	2	11	98
5:15 PM	0	7	41	2	0	50	2	2	26	3	0	33	0	4	2	0	0	6	0	1	1	5	0	7	96
5:30 PM	0	5	29	4	0	38	1	5	35	6	2	47	0	4	1	2	4	7	0	5	2	3	4	10	102
5:45 PM	0	9	50	3	1	59	2	1	31	3	4	37	0	2	8	3	9	13	0	3	4	2	10	6	118
Total	0	20	160	12	1	192	5	8	126	12	9	151	0	14	13	7	12	34	0	10	8	19	16	37	414
Approach %	0.0	10.4	83.3	6.3			3.3	5.3	83.4	7.9			0.0	41.2	38.2	20.6			0.0	27.0	21.6	51.4			
Total %	0.0	4.8	38.6	2.9		46.4	1.2	1.9	30.4	2.9	ı	36.5	0.0	3.4	3.1	1.7		8.2	0.0	2.4	1.9	4.6		8.9	
PHF	0.000	0.714	0.800	0.750		0.814	0.625	0.400	0.900	0.500	ı	0.803	0.000	0.875	0.406	0.583		0.654	0.000	0.500	0.500	0.528		0.841	0.877
Lights	0	20	157	11		188	5	8	123	12		148	0	14	13	7		34	0	10	9	19		35	405
% Lights		100.0	98.1	91.7		97.9	100.0	100.0	97.6	100.0		98.0		100.0	100.0	100.0		100.0		100.0	75.0	100.0		94.6	97.8
Buses	0	0	0	0		0	0	0	0	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	ı	0.0		0.0	0.0	0.0		0.0		0.0	0.0	0.0		0.0	0.0
Single-Unit Trucks	s 0	0	2	0		2	0	0	1	0	-	1	0	0	0	0		0	0	0	0	0		0	3
% Single-Unit Trucks	•	0.0	1.3	0.0		1.0	0.0	0.0	0.8	0.0		0.7		0.0	0.0	0.0		0.0		0.0	0.0	0.0		0.0	0.7
Articulated Trucks	s 0	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	0.0	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	-	-		2	0	0	2	0		2	0	0	0	0		0	0	0	2	0		2	9
% Bicycles on Road		0.0	0.6	8.3		1.0	0.0	0.0	1.6	0.0		1.3		0.0	0.0	0.0		0.0		0.0	25.0	0.0		5.4	1.4
Pedestrians					+						9						12						16	-	
% Pedestrians					100.0						100.0						100.0						100.0	-	

	Int. Total	66	69	84	81	333	60	78	83	124	345	- 00	20	92	96	347	106	92	121	110	1454	.		1421	97.7	2	0.1	15	1.0	з	0.2	13	0.9	,
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Count Name: Sigwalt Street and Highland Avenue Site Code: Start Date: 06/26/2018 Page No: 1 Highland Avenue	Peds	4	-	0	0	5	2	0	0	0 0	2	. C	- c	7 0	0	4	2	0	- 0	7 4	16				,	,								16
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ie: Sigwalt St 06/26/2018	sournbound Thru Rigl	-	0	2	0	ю	~	2	5 5	° °	Ω	· ~	n c	1 0	0	7	9	4	∞ r	) 75	43	24.0	3.0	40	93.0	0	0.0	0	0.0	0	0.0	3	7.0	
Count Name: Sigwalt Str Avenue Site Code: Start Date: 06/26/2018 Page No: 1 Highland Avenue	Left	3	9	7	7	23	3	4	60 L	0.00	20	د	n c	9	2	15	9	7	13	22	91	50.8	6.3	06	98.9	0	0.0	-	1.1	0	0.0	0	0.0	
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Avenue	una Right		2	2	3	10	9	-	4	61	23	· ~	, c	22 4	7	17	1	2	- 1	11	61	42.4	4.2	60	98.4	0	0.0	-	1.6	0	0.0	0	0.0	
Highhand Avenue	Thru Rig	9	2	2	8	18	9	5	2 1	0	15	. <i>ע</i>	- -	-	5	12	3	7	4	78	61	42.4	4.2	57	93.4	-	1.6	0	0.0	0	0.0	3	4.9	
60018 ata	Left	0	0	-	-	2	e	2	5 0	ρĻ	15			-	0	-	1	1	0		52	15.3	1.5	22	100.0	0	0.0	0	0.0	0	0.0	0	0.0	
Aboona , Suite 4 1 States 90	U-Turn	0	0	0	0	0	0	0	0		0	·   c		0	0	0	0	0	0		0	0.0	0.0	0		0	,	0		0		0		
Kenig Lindgren O'Hara Aboona, Inc. 9575 W. Higgins Rd., Suite 400 Rosemont, Illinois, United States 60018 (847)518-9990 Turning Movement Data	App.	44	24	29	34	131	18	38	36	22	145	- 48	9 1 1 1	6 14	48	172	54	32	54	00	638	,	43.9	624	97.8	0	0.0	2	1.1	е	0.5	4	0.6	
Menla Lindgren, or anig Lindgren, or 9575 W. Hige emont, Illinois (847 (847)	Peds	-	0	0	2	0	0	0	0		0			0 0	0	2	0	0	0	0 0	22				,	,								5
Kenig L 9572 Acsemol	stoouna Right	2	2	7	33	17	e	2	6	л (	28		+ c	n m	9	16	4	3	4 '	ۍ ۵	21	12.1	5.3	77	100.0	0	0.0	0	0.0	0	0.0	0	0.0	
at a	Thru	35	21	20	29	105	14	28	26	20	104	- 11	5	88	42	151	48	28	48	43	527	82.6	36.2	516	97.9	0	0.0	7	1.3	e	0.6	+	0.2	
	Left	4	-	2	2	6	-	e	- 0	o ç	13	, c	n c	0 0	0	5	2	+	2		34	5.3	2.3	31	91.2	0	0.0	0	0.0	0	0.0	3	8.8	
	U-Turn	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		
	App.	40	33	38	27	138	27	25	28	40	114	- 9C	27	32	32	117	30	34	28	32	493	,	33.9	483	98.0	-	0.2	9	1.2	0	0.0	3	9.0	
	Peds	4	0	-	2	7	-	0	0,	- 0	2	· c	4 6	0	2	7	2	+	5	ی ا	22						ı							22
Street	Right	-	0	0	-	2	2	0	0	7	4	•	-   -	- 0	-	ю	2	3	0,	- 4	15	3.0	1.0	14	93.3	0	0.0	0	0.0	0	0.0	٢	6.7	
Sigwalt Street	Eastbound Thru Rig	30	28	31	16	105	25	23	26	32	106	- 25	27	32 22	29	111	28	29	25	20	430	87.2	29.6	421	97.9	-	0.2	9	1.4	0	0.0	2	0.5	
	Left	6	5	7	10	31	0	2	0		4	, c	•	- 0	2	e	0	2	ε	۵ ¢	48	9.7	3.3	48	100.0	0	0.0	0	0.0	0	0.0	0	0.0	
	U-Turn	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		
	Start Time	7:00 AM	7:15 AM	7:30 AM	7:45 AM	Hourly Total	8:00 AM	8:15 AM	8:30 AM	0.45 AIM	Hourly Total				4:45 PM	Hourly Total	5:00 PM	5:15 PM	5:30 PM	5:45 PM Hourty Totol	Grand Total	Approach %	Total %	Lights	% Lights	Buses	% Buses	Single-Unit Trucks	% Single-Unit Trucks	Articulated Trucks	% Articulated Trucks	Bicycles on Road	% Bicycles on Road	Pedestrians

A - 14

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

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

Count Name: Sigwalt Street and Highland Avenue Site Code: Start Date: 06/26/2018 Page No: 3

Sigwalt Street	Siowalt Street	Sigwalt Street	Sigwalt Street	itreet					Turning	DOVE Sigwalt Street	Movement Peak Hour Data (8:00 AM)	nt P€	ak H	our D	ata (8	3:00 AM)	(M)		_			Highland Avenue	venue			
Eastbound							ž S	, S	ő ≤	Westbound	д р					Northbound	nud					Southbound	pur			
Start Time U-Turn Left Thru Right Peds App. U-Turn Left	Left Thru Right Peds App. U-Turn Left	Thru Right Peds App. U-Turn Left	Right Peds App. U-Turn Left	Peds App. U-Turn Left	App. U-Turn Left	U-Turn Left	Left			Thru R	Right P.	Peds	App. Total L	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total Ir	Int. Total
8:00 AM 0 0 25 2 1 27 0 1	0 25 2 1 27	25 2 1 27	2 1 27	1 27			0 1	-		14	3	0	18	0	3	3	3	0	6	0	3	1	2	2	6	60
8:15 AM 0 2 23 0 0 25 0 3	2 23 0 0 25 0	23 0 0 25 0	0 0 25 0	0 25 0	25 0	0	r.	ю		28	7	0	38	0	2	5	1	0	8	0	4	2	1	0	7	78
8:30 AM 0 2 26 0 0 28 0 1	2 26 0 0 28	26 0 0 28	0 0 28	0 28	28		0 1	-		26	6	0	36	0	2	2	4	0	8	0	8	2	1	0	11	83
8.45 AM 0 0 32 2 1 34 0 8	0 32 2 1 34 0	32 2 1 34 0	2 1 34 0	1 34 0	0	0		∞		36	6	0	53	0	8	5	15	0	28	0	5	3	+	0	6	124
Total 0 4 106 4 2 114 0 13	4 106 4 2 114 0	106 4 2 114 0	4 2 114 0	2 114 0	114 0	0		13		104	28	0	145	0	15	15	23	0	53	0	20	8	5	2	33	345
Approach % 0.0 3.5 93.0 3.5 0.0 9.0	3.5 93.0 3.5 0.0	93.0 3.5 0.0	3.5 0.0	5 0.0				9.0		71.7 1	19.3		,	0.0	28.3	28.3	43.4			0.0	60.6	24.2	15.2			
Total % 0.0 1.2 30.7 1.2 - 33.0 0.0 3.8	1.2 30.7 1.2 - 33.0 0.0	30.7 1.2 - 33.0 0.0	1.2 - 33.0 0.0	- 33.0 0.0	33.0 0.0	0.0		3.8		30.1	8.1		42.0	0.0	4.3	4.3	6.7		15.4	0.0	5.8	2.3	1.4		9.6	
PHF 0.000 0.500 0.828 0.500 - 0.838 0.000 0.406	0.500 0.828 0.500 - 0.838 0.000	0.828 0.500 - 0.838 0.000	0.500 - 0.838 0.000	- 0.838 0.000	0.000	0.000		0.406		0.722 0.	0.778	-	0.684 (	0.000 (	0.469	0.750	0.383		0.473	0.000	0.625	0.667 (	0.625	-	0.750	0.696
Lights 0 4 104 4 - 112 0 13	4 104 4 - 112 0	104 4 - 112 0	4 - 112 0	- 112 0	0	0		13		103	28		144	0	15	15	22		52	0	19	8	5		32	340
% Lights - 100.0 98.1 100.0 - 98.2 - 100.0	98.1 100.0 - 98.2 -	98.1 100.0 - 98.2 -	100.0 - 98.2 -	- 98.2 -			- 100.0	100.0		99.0 11	100.0		99.3		100.0	100.0	95.7		98.1		95.0	100.0	100.0		97.0	98.6
Buses 0 0 1 0 - 1 0 0	0 1 0 - 1 0	1 0 - 1 0	0 - 1 0	- 1 0	1 0			0		0	0		0	0	0	0	0		0	0	0	0	0		0	-
% Buses - 0.0 0.9 0.0 - 0.9 - 0.0	- 0.0 - 0.0 - 0.0	- 0.9 - 0.0	- 0.0 - 0.9	- 0.9 -	,	,	- 0.0	0.0		0.0	0.0		0.0	,	0.0	0.0	0.0		0.0	,	0.0	0.0	0.0		0.0	0.3
Single-Unit Trucks 0 0 1 0 - 1 0 0	0 1 0 - 1 0	1 0 - 1 0	0 - 1 0	- 1 0	1 0			0		0	0		0	0	0	0	-		-	0	-	0	0		-	з
% Single-Unit - 0.0 0.9 0.0 - 0.9 - 0.0	- 0.0 - 0.0	- 0.0 - 0.0	- 0.0 - 0.9	- 0.9	- 0.0			0.0		0.0	0.0		0.0		0.0	0.0	4.3		1.9		5.0	0.0	0.0		3.0	6.0
Articulated Trucks 0 0 0 0 - 0 0 0	0 0 - 0 0	0 0 - 0 0	0 0 - 0	0 0 -	0	0		0		-	0		-	0	0	0	0		0	0	0	0	0		0	-
% Articulated - 0.0 0.0 0.0 - 0.0 - 0.0	- 0.0 - 0.0	- 0.0 - 0.0	- 0.0 - 0.0	- 0.0 -				0.0		1.0	0.0		0.7		0.0	0.0	0.0		0.0		0.0	0.0	0.0		0.0	0.3
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		0	0
% Bicycles on - 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
Pedestrians	2 -	- 2 -	- 2 -	- 2	-			1				0	-					0						2	-	
% Pedestrians 100.0		100.0	100.0	- 100.0	100.0	•																		100.0	,	

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

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

Count Name: Sigwalt Street and Highland Avenue Site Code: Start Date: 06/26/2018 Page No: 4

		nt. Total	106	92	121	110	429			0.886	421	98.1	0	0.0	9	1.4	0	0.0	2	0.5		
		App. Total	17	16	34	17	84		19.6	0.618	83	98.8	0	0.0	0	0.0	0	0.0	1	1.2		
		Peds	2	0	1	2	5											ı			5	100.0
	Avenue ⊃und	Right	5	5	13	З	26	31.0	6.1	0.500	26	100.0	0	0.0	0	0.0	0	0.0	0	0.0		
	Highland Avenue Southbound	Thru	9	4	8	7	25	29.8	5.8	0.781	24	96.0	0	0.0	0	0.0	0	0.0	1	4.0		
		Left	6	7	13	7	33	39.3	7.7	0.635	33	100.0	0	0.0	0	0.0	0	0.0	0	0.0		
		U-Tum	0	0	0	0	0	0.0	0.0	0.000	0		0		0		0		0			
		App. Total	5	10	5	11	31		7.2	0.705	31	100.0	0	0.0	0	0.0	0	0.0	0	0.0		
		Peds	0	0	0	0	0											ı			0	
(Mc	Avenue	Right	1	2	1	7	11	35.5	2.6	0.393	11	100.0	0	0.0	0	0.0	0	0.0	0	0.0		
5:00	Highland Avenue Northbound	Thru	3	7	4	2	16	51.6	3.7	0.571	16	100.0	0	0.0	0	0.0	0	0.0	0	0.0		
)ata (	•	Left	1	1	0	2	4	12.9	0.9	0.500	4	100.0	0	0.0	0	0.0	0	0.0	0	0.0		
Hour E		U-Turn	0	0	0	0	0	0.0	0.0	0.000	0		0		0		0		0			
Movement Peak Hour Data (5:00 PM)		App. Total	54	32	54	50	190		44.3	0.880	186	97.9	0	0.0	3	1.6	0	0.0	1	0.5		
ient P		Peds	0	0	0	0	0		1	1			,					ı			0	
ovem	walt Street /estbound	Right	4	3	4	5	16	8.4	3.7	0.800	16	100.0	0	0.0	0	0.0	0	0.0	0	0.0		
ing M	Sigwalt Street Westbound	Thru	48	28	48	43	167	87.9	38.9	0.870	163	97.6	0	0.0	3	1.8	0	0.0	1	0.6		
Turning <sup>1</sup>		Left	2	1	2	2	7	3.7	1.6	0.875	7	100.0	0	0.0	0	0.0	0	0.0	0	0.0		
		U-Turn	0	0	0	0	0	0.0	0.0	0.000	0		0		0		0		0			
		App. Total	30	34	28	32	124		28.9	0.912	121	97.6	0	0.0	3	2.4	0	0.0	0	0.0		
		Peds	2	1	2	~	9											·			9	100.0
	Sigwalt Street Eastbound	Right	2	3	0	-	9	4.8	1.4	0.500	9	100.0	0	0.0	0	0.0	0	0.0	0	0.0		
	Sigwall Eastb	Thru	28	29	25	26	108	87.1	25.2	0.931	105	97.2	0	0.0	3	2.8	0	0.0	0	0.0		
		Left	0	2	3	5	10	8.1	2.3	0.500	10	100.0	0	0.0	0	0.0	0	0.0	0	0.0		•
		U-Turn	0	0	0	0	0	0.0	0.0	0.000	0		0		0	•	0		0			,
		Start Time	5:00 PM	5:15 PM	5:30 PM	5:45 PM	Total	Approach %	Total %	PHF	Lights	% Lights	Buses 16	% Buses	Single-Unit Trucks	% Single-Unit Trucks	Articulated Trucks	% Articulated Trucks	Bicycles on Road	% Bicycles on Road	Pedestrians	% Pedestrians

TURNS/TEAPAC[Ver 3.61.12] - 60-Minute Volumes: by Movement

	Inter	sectio	on #	1 hig	ghland	d/low	erlevel	lgar					
Begin	 N-7	Approa	ach	E-7	Approa	ach	 S-2	Approa	ach	 W-Z	Approa	ach	Int
Time	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total
=====		=====				====			====				=====
700	0	59	38	25	0	5	25	52	0	0	0	0	204
715	0	56	38	20	0	7	20	45	0	0	0	0	186
730	0	53	37	13	0	8	21	35	0	0	0	0	167
745	0	52	32	14	0	11	12	42	0	0	0	0	163
800	0	35	17	13	0	12	10	52	0	0	0	0	139
815	0	25	9	12	0	8	7	46	0	0	0	0	107*
830	0	15	3	10	0	6	5	41	0	0	0	0	80*
845	0	9	2	4	0	3	3	22	0	0	0	0	43*
1600	0	45	18	18	0	17	2	53	0	0	0	0	153
1615	0	51	22	23	0	19	3	68	0	0	0	0	186
1630	0	54	23	19	0	20	7	67	0	0	0	0	190
1645	0	61	25	24	0	19	6	74	0	0	0	0	209
1700	0	65	26	39	0	25	8	97	0	0	0	0	260
1715	0	52	20	31	0	21	7	73	0	0	0	0	204*
1730	0	42	15	28	0	18	3	58	0	0	0	0	164*
1745	0	21	7	16	0	9	3	32	0	0	0	0	88*
=====	=====	=====	====	=====	=====	====	=====	=====	====	=====		====	=====

TURNS/TEAPAC[Ver 3.61.12] - 60-Minute Volumes: Appr/Exit Totals

Intersection # 1 highland/lowerlevelgar

	THEETBEE	.01011 #	r mräm	.anu/10w	errevergar				
	=======				==========			======	
Begin		Approac	h Totals	5		Exit 1	Cotals		Int
Time	N	Е	S	W	N	Е	S	W	Total
=====	=======	========	=======	======	=========	=======		======	=====
700	97	30	77	0	77	63	64	0	204
715	94	27	65	0	65	58	63	0	186
730	90	21	56	0	48	58	61	0	167
745	84	25	54	0	56	44	63	0	163
800	52	25	62	0	65	27	47	0	139
815	34	20	53	0	58	16	33	0	107*
830	18	16	46	0	51	8	21	0	80*
845	11	7	25	0	26	5	12	0	43*
1600	63	35	55	0	71	20	62	0	153
1615	73	42	71	0	91	25	70	0	186
1630	77	39	74	0	86	30	74	0	190
1645	86	43	80	0	98	31	80	0	209
1700	91	64	105	0	136	34	90	0	260
1715	72	52	80	0	104	27	73	0	204*
1730	57	46	61	0	86	18	60	0	164*
1745	28	25	35	0	48	10	30	0	88*
=====				======		=======			=====

TURNS/TEAPAC[Ver 3.61.12] - 60-Minute Volumes: by Movement

	Inters	sectio	on #	2 hig	ghlan	d/gar	ageram	>					
Begin	 N-2	Approa	ach	E-2	Approa	ach	s-2	Approa	ach	 W-A	Approa	ach	Int
Time	RT	TH	$\mathbf{LT}$	RT	TH	$\mathbf{LT}$	RT	TH	$\mathbf{LT}$	RT	TH	$\mathbf{LT}$	Total
=====	=====		====	=====	=====	====	=====		====	======		====	=====
700	0	0	9	19	0	22	25	0	0	0	0	0	75
715	0	0	7	17	0	18	20	0	0	0	0	0	62
730	0	0	7	12	0	14	22	0	0	0	0	0	55
745	0	0	8	13	0	10	17	0	0	0	0	0	48
800	0	0	4	15	0	8	6	0	0	0	0	0	33
815	0	0	3	12	0	5	6	0	0	0	0	0	26*
830	0	0	1	12	0	3	2	0	0	0	0	0	18*
845	0	0	0	6	0	1	2	0	0	0	0	0	9*
1600	0	0	9	7	0	13	8	0	0	0	0	0	37
1615	0	0	9	10	0	18	10	0	0	0	0	0	47
1630	0	0	10	9	0	18	14	0	0	0	0	0	51
1645	0	0	11	10	0	25	10	0	0	0	0	0	56
1700	0	0	11	15	0	32	15	0	0	0	0	0	73
1715	0	0	10	10	0	26	13	0	0	0	0	0	59*
1730	0	0	8	9	0	22	8	0	0	0	0	0	47*
1745	0	0	3	6	0	11	7	0	0	0	0	0	27*
=====	=====	=====	====	=====	=====	====	=====	=====	====	=====	=====	====	=====

TURNS/TEAPAC[Ver 3.61.12] - 60-Minute Volumes: Appr/Exit Totals

Intersection # 2 highland/garageramp

				ja=					
Begin		Approac	ch Totals	3		Exit '	Totals		Int
Time	N	E	S	W	N	Е	S	W	Total
=====	=======				========	=======	=======	======	=====
700	9	41	25	0	19	34	22	0	75
715	7	35	20	0	17	27	18	0	62
730	7	26	22	0	12	29	14	0	55
745	8	23	17	0	13	25	10	0	48
800	4	23	6	0	15	10	8	0	33
815	3	17	6	0	12	9	5	0	26*
830	1	15	2	0	12	3	3	0	18*
845	0	7	2	0	6	2	1	0	9*
1600	9	20	8	0	7	17	13	0	37
1615	9	28	10	0	10	19	18	0	47
1630	10	27	14	0	9	24	18	0	51
1645	11	35	10	0	10	21	25	0	56
1700	11	47	15	0	15	26	32	0	73
1715	10	36	13	0	10	23	26	0	59*
1730	8	31	8	0	9	16	22	0	47*
1745	3	17	7	0	6	10	11	0	27*
=====	=======		=========	======	=======	=======	=======	======	=====

# <u>Capacity Analysis – Existing Conditions</u>







U <b>nsignalize</b>	d Intersections		
	Level of Service	Average Control Delay (s	seconds per vehicle)
	А	0 - 10	)
	В	> 10 - 1	15
	С	> 15 - 2	25
	D	> 25 - 1	35
	Е	> 35 - :	50
	F	> 50	
Signalized 1	Intersections		
Level of			Average Control Delay
Service	Interpretation		(seconds per vehicle
A	Favorable progression. Most ve indication and travel through the	<b>U</b>	≤ 10
В	Good progression, with more vel Service A.	hicles stopping than for Level of	> 10 - 20
С	Individual cycle failures (i.e. or not able to depart as a result of cycle) may begin to appear. N significant, although many ve intersection without stopping.	insufficient capacity during the lumber of vehicles stopping is	> 20 - 35
D	The volume-to-capacity ratio is ineffective or the cycle length is and individual cycle failures are	s too long. Many vehicles stop	> 35 - 55
E	Progression is unfavorable. The and the cycle length is long. frequent.	volume-to-capacity ratio is high Individual cycle failures are	> 55 - 80
F	The volume-to-capacity ratio is poor, and the cycle length is lon		> 80

	-	$\mathbf{r}$	-	-	1	1		
Movement	EBT	EBR	WBL	WBT	NBL	NBR		
Lane Configurations	<u> </u>			4	Y			
Traffic Volume (veh/h)	143	36	13	89	18	39		
Future Volume (Veh/h)	143	36	13	89	18	39		
Sign Control	Free			Free	Stop			
Grade	0%			0%	0%			
Peak Hour Factor	0.87	0.87	0.87	0.87	0.87	0.87		
Hourly flow rate (vph)	164	41	15	102	21	45		
Pedestrians				7	9	10		
Lane Width (ft)				12.0	12.0			
Walking Speed (ft/s)				3.5	3.5			
Percent Blockage				1	1			
Right turn flare (veh)								
Median type	None			None				
Median storage veh)								
Upstream signal (ft)								
pX, platoon unblocked								
vC, conflicting volume			214		326	200		
vC1, stage 1 conf vol								
vC2, stage 2 conf vol								
vCu, unblocked vol			214		326	200		
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	95		
cM capacity (veh/h)			1356		660	833		
Direction, Lane #	EB 1	WB 1	NB 1					
Volume Total	205	117	66				_	
Volume Left	0	15	21					
Volume Right	41	0	45					
cSH	1700	1356	769					
Volume to Capacity	0.12	0.01	0.09					
Queue Length 95th (ft)	0	1	7					
Control Delay (s)	0.0	1.1	10.1					
Lane LOS		А	В					
Approach Delay (s)	0.0	1.1	10.1					
Approach LOS			В					
Intersection Summary								
Average Delay			2.0					
Intersection Capacity Utiliz	zation		28.2%	IC	U Level c	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	
Traffic Volume (veh/h)	4	197	4	13	120	28	15	15	23	20	8	5
Future Volume (Veh/h)	4	197	4	13	120	28	15	15	23	20	8	5
Sign Control		Free			Free			Stop			Stop	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
Hourly flow rate (vph)	6	281	6	19	171	40	21	21	33	29	11	7
Pedestrians		2									2	
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	213			287			540	547	284	570	530	195
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	213			287			540	547	284	570	530	195
tC, single (s)	4.1			4.1			7.1	6.5	6.2	7.1	6.5	6.2
tC, 2 stage (s)												
tF (s)	2.2			2.2			3.5	4.0	3.3	3.5	4.0	3.3
p0 queue free %	100			99			95	95	96	93	98	99
cM capacity (veh/h)	1367			1287			436	438	750	387	448	848
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total	293	230	75	47								
Volume Left	6	19	21	29								
Volume Right	6	40	33	7								
cSH	1367	1287	535	436								
Volume to Capacity	0.00	0.01	0.14	0.11								
Queue Length 95th (ft)	0	1	12	9								
Control Delay (s)	0.2	0.8	12.8	14.3								
Lane LOS	А	А	В	В								
Approach Delay (s)	0.2	0.8	12.8	14.3								
Approach LOS			В	В								
Intersection Summary												
Average Delay			2.9									
Intersection Capacity Utiliza	ation		26.1%	IC	CU Level o	of Service			А			
Analysis Period (min)			15									

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Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	۰Y		eî.			र्स
Traffic Volume (veh/h)	12	13	44	10	17	32
Future Volume (Veh/h)	12	13	44	10	17	32
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	13	14	48	11	18	35
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	124	54			59	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	124	54			59	
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	99			99	
cM capacity (veh/h)	860	1014			1545	
			CD 1			
Direction, Lane # Volume Total	WB 1	NB 1	SB 1			
	27	59	53			
Volume Left	13	0	18			
Volume Right	14	11	0			
cSH	934	1700	1545			
Volume to Capacity	0.03	0.03	0.01			
Queue Length 95th (ft)	2	0	1			
Control Delay (s)	9.0	0.0	2.6			
Lane LOS	A		A			
Approach Delay (s)	9.0	0.0	2.6			
Approach LOS	А					
Intersection Summary						
Average Delay			2.7			
Intersection Capacity Utiliz	zation		19.3%	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					÷			et.			<del>ا</del>	
Traffic Volume (veh/h)	0	0	0	8	0	15	0	39	6	4	40	0
Future Volume (Veh/h)	0	0	0	8	0	15	0	39	6	4	40	0
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	0	0	9	0	16	0	42	7	4	43	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	112	100	43	96	96	46	43			49		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	112	100	43	96	96	46	43			49		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	100	100	100	99	100	98	100			100		
cM capacity (veh/h)	850	788	1027	884	792	1024	1566			1558		
Direction, Lane #	WB 1	NB 1	SB 1									
Volume Total	25	49	47									
Volume Left	9	0	4									
Volume Right	16	7	0									
cSH	969	1700	1558									
Volume to Capacity	0.03	0.03	0.00									
Queue Length 95th (ft)	2	0	0									
Control Delay (s)	8.8	0.0	0.6									
Lane LOS	А		А									
Approach Delay (s)	8.8	0.0	0.6									
Approach LOS	А											
Intersection Summary												
Average Delay			2.1									
Intersection Capacity Utiliz	ation		15.4%	IC	CU Level o	of Service			А			
Analysis Period (min)			15									
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Movement EBT EBR WBL WBT NBL NBR
Lane Configurations 🚯 🦨 🏹
Traffic Volume (veh/h) 153 39 53 150 43 67
Future Volume (Veh/h) 153 39 53 150 43 67
Sign Control Free Free Stop
Grade 0% 0% 0%
Peak Hour Factor 0.92 0.92 0.92 0.92 0.92 0.92
Hourly flow rate (vph) 166 42 58 163 47 73
Pedestrians 25 25 25
Lane Width (ft) 12.0 12.0 12.0
Walking Speed (ft/s)         3.5         3.5         3.5
Percent Blockage 2 2 2
Right turn flare (veh)
Median type None None
Median storage veh)
Upstream signal (ft)
pX, platoon unblocked
vC, conflicting volume 233 516 237
vC1, stage 1 conf vol
vC2, stage 2 conf vol
vCu, unblocked vol 233 516 237
tC, single (s) 4.1 6.4 6.2
tC, 2 stage (s)
tF (s) 2.2 3.5 3.3
p0 queue free % 96 90 90
cM capacity (veh/h) 1303 473 764
Direction, Lane # EB 1 WB 1 NB 1
Volume Total 208 221 120
Volume Left 0 58 47
Volume Right 42 0 73
cSH 1700 1303 616
Volume to Capacity 0.12 0.04 0.19
Queue Length 95th (ft) 0 3 18
Control Delay (s) 0.0 2.4 12.3
Lane LOS A B
Approach Delay (s) 0.0 2.4 12.3
Approach LOS B
Intersection Summary
Average Delay 3.6
Intersection Capacity Utilization 44.1% ICU 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	
Traffic Volume (veh/h)	5	118	9	13	150	43	4	21	19	44	34	35
Future Volume (Veh/h)	5	118	9	13	150	43	4	21	19	44	34	35
Sign Control		Free			Free			Stop			Stop	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Hourly flow rate (vph)	6	133	10	15	169	48	4	24	21	49	38	39
Pedestrians		25			25			25			25	
Lane Width (ft)		12.0			12.0			12.0			12.0	
Walking Speed (ft/s)		3.5			3.5			3.5			3.5	
Percent Blockage		2			2			2			2	
Right turn flare (veh)												
Median type		None			None							
Median storage veh)												
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	242			168			481	447	188	456	428	243
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	242			168			481	447	188	456	428	243
tC, single (s)	4.1			4.1			7.1	6.5	6.2	7.1	6.5	6.2
tC, 2 stage (s)												
tF (s)	2.2			2.2			3.5	4.0	3.3	3.5	4.0	3.3
p0 queue free %	100			99			99	95	97	89	92	95
cM capacity (veh/h)	1293			1376			401	475	814	438	487	758
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total	149	232	49	126								
Volume Left	6	15	4	49								
Volume Right	10	48	21	39								
cSH	1293	1376	568	522								
Volume to Capacity	0.00	0.01	0.09	0.24								
Queue Length 95th (ft)	0	1	7	23								
Control Delay (s)	0.4	0.6	11.9	14.1								
Lane LOS	А	А	В	В								
Approach Delay (s)	0.4	0.6	11.9	14.1								
Approach LOS			В	В								
Intersection Summary												
Average Delay			4.6									
Intersection Capacity Utiliz	ation		36.7%	IC	CU Level o	of Service			А			
Analysis Period (min)			15									

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Movement	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations	¥		4Î			स	_
Traffic Volume (veh/h)	25	58	52	8	26	66	
Future Volume (Veh/h)	25	58	52	8	26	66	
Sign Control	Stop		Free			Free	
Grade	0%		0%			0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	
Hourly flow rate (vph)	27	63	57	9	28	72	
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	190	62			66		
vC1, stage 1 conf vol							
vC2, stage 2 conf vol							
vCu, unblocked vol	190	62			66		
tC, single (s)	6.4	6.2			4.1		
tC, 2 stage (s)							
tF (s)	3.5	3.3			2.2		
p0 queue free %	97	94			98		
cM capacity (veh/h)	785	1004			1536		
Direction, Lane #	WB 1	NB 1	SB 1				
Volume Total	90	66	100				
Volume Left	90 27	00	28				
	63	9	20				
Volume Right cSH	926	9 1700	1536				
	920 0.10	0.04	0.02				
Volume to Capacity	0.10						
Queue Length 95th (ft)	8 9.3	0	1				
Control Delay (s)		0.0	2.2				
Lane LOS	A	0.0	A				
Approach Delay (s)	9.3	0.0	2.2				
Approach LOS	А						
Intersection Summary							
Average Delay			4.1				
Intersection Capacity Utilization	tion		23.2%	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	
Traffic Volume (veh/h)	0	0	0	32	0	15	0	45	15	11	80	0
Future Volume (Veh/h)	0	0	0	32	0	15	0	45	15	11	80	0
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	0	0	35	0	16	0	49	16	12	87	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	184	176	87	168	168	57	87			65		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	184	176	87	168	168	57	87			65		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	100	100	100	96	100	98	100			99		
cM capacity (veh/h)	760	712	971	791	719	1009	1509			1537		
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total	0	51	65	99								
Volume Left	0	35	0	12								
Volume Right	0	16	16	0								
cSH	1700	849	1509	1537								
Volume to Capacity	0.00	0.06	0.00	0.01								
Queue Length 95th (ft)	0	5	0	1								
Control Delay (s)	0.0	9.5	0.0	0.9								
Lane LOS	А	А		А								
Approach Delay (s)	0.0	9.5	0.0	0.9								
Approach LOS	А	А										
Intersection Summary												
Average Delay			2.7									
Intersection Capacity Utiliz	ation		21.5%	IC	CU Level o	of Service			А			
Analysis Period (min)			15									

# Capacity Analysis – Future Conditions



Proposed Row Home Development Arlington Heights, Illinois

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Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	¢,			र्भ	Y	
Sign Control	Stop			Stop	Stop	
Traffic Volume (vph)	162	38	23	95	20	59
Future Volume (vph)	162	38	23	95	20	59
Peak Hour Factor	0.87	0.87	0.87	0.87	0.87	0.87
Hourly flow rate (vph)	186	44	26	109	23	68
Direction, Lane #	EB 1	WB 1	NB 1			
Volume Total (vph)	230	135	91			
Volume Left (vph)	0	26	23			
Volume Right (vph)	44	0	68			
Hadj (s)	-0.11	0.12	-0.40			
Departure Headway (s)	4.2	4.5	4.3			
Degree Utilization, x	0.27	0.17	0.11			
Capacity (veh/h)	845	774	772			
Control Delay (s)	8.6	8.4	7.8			
Approach Delay (s)	8.6	8.4	7.8			
Approach LOS	А	А	А			
Intersection Summary						
Delay			8.4			
Level of Service			А			
Intersection Capacity Utiliz	ation		41.5%	IC	CU Level c	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		\$			÷			\$			\$	
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	9	213	9	14	125	57	17	20	24	70	18	15
Future Volume (vph)	9	213	9	14	125	57	17	20	24	70	18	15
Peak Hour Factor	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
Hourly flow rate (vph)	13	304	13	20	179	81	24	29	34	100	26	21
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total (vph)	330	280	87	147								
Volume Left (vph)	13	20	24	100								
Volume Right (vph)	13	81	34	21								
Hadj (s)	0.02	-0.15	-0.15	0.11								
Departure Headway (s)	5.0	4.9	5.6	5.7								
Degree Utilization, x	0.46	0.38	0.13	0.23								
Capacity (veh/h)	686	693	557	565								
Control Delay (s)	12.1	10.9	9.4	10.4								
Approach Delay (s)	12.1	10.9	9.4	10.4								
Approach LOS	В	В	А	В								
Intersection Summary												
Delay			11.1									
Level of Service			В									
Intersection Capacity Utilizati	on		37.1%	IC	U Level o	of Service			А			
Analysis Period (min)			15									

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Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	Y		4Î			र्भ
Traffic Volume (veh/h)	13	14	84	11	18	36
Future Volume (Veh/h)	13	14	84	11	18	36
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	14	15	91	12	20	39
Pedestrians	50		50			50
Lane Width (ft)	12.0		12.0			12.0
Walking Speed (ft/s)	3.5		3.5			3.5
Percent Blockage	5		5			5
Right turn flare (veh)						
Median type			None			None
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	276	197			153	
vC1, stage 1 conf vol	270	.,,			100	
vC2, stage 2 conf vol						
vCu, unblocked vol	276	197			153	
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 %	98	98			99	
cM capacity (veh/h)	638	766			1360	
· ·						
Direction, Lane #	WB 1	NB 1	SB 1			
Volume Total	29	103	59			
Volume Left	14	0	20			
Volume Right	15	12	0			
cSH	698	1700	1360			
Volume to Capacity	0.04	0.06	0.01			
Queue Length 95th (ft)	3	0	1			
Control Delay (s)	10.4	0.0	2.7			
Lane LOS	В		A			
Approach Delay (s)	10.4	0.0	2.7			
Approach LOS	В					
Intersection Summary						
Average Delay			2.4			
Intersection Capacity Utiliz	zation		30.0%	IC	U Level o	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	
Traffic Volume (veh/h)	18	0	64	9	0	16	15	61	7	5	42	2
Future Volume (Veh/h)	18	0	64	9	0	16	15	61	7	5	42	2
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	20	0	70	10	0	17	16	66	8	5	46	2
Pedestrians		50			50			50			50	
Lane Width (ft)		12.0			12.0			12.0			12.0	
Walking Speed (ft/s)		3.5			3.5			3.5			3.5	
Percent Blockage		5			5			5			5	
Right turn flare (veh)												
Median type								None			None	
Median storage veh)												
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	276	263	147	329	260	170	98			124		
vC1, stage 1 conf vol	270	200		027	200	170	70			121		
vC2, stage 2 conf vol												
vCu, unblocked vol	276	263	147	329	260	170	98			124		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)	7.1	0.0	0.2	7.1	0.0	0.2				1.1		
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	96	100	91	98	100	98	99			100		
cM capacity (veh/h)	551	574	816	475	576	793	1424			1393		
					570	175	TTZT			1373		
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total	90	27	90	53								
Volume Left	20	10	16	5								
Volume Right	70	17	8	2								
cSH	738	636	1424	1393								
Volume to Capacity	0.12	0.04	0.01	0.00								
Queue Length 95th (ft)	10	3	1	0								
Control Delay (s)	10.6	10.9	1.4	0.7								
Lane LOS	В	В	А	А								
Approach Delay (s)	10.6	10.9	1.4	0.7								
Approach LOS	В	В										
Intersection Summary												
Average Delay			5.4									
Intersection Capacity Utiliza	ation		31.4%	IC	U Level o	of Service			А			
Analysis Period (min)			15									

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Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Υ			र्स	eî.	
Traffic Volume (veh/h)	2	4	2	81	115	0
Future Volume (Veh/h)	2	4	2	81	115	0
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	2	4	2	88	125	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	217	125	125			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	217	125	125			
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)	770	926	1462			
Direction, Lane #	EB 1	NB 1	SB 1			
Volume Total	6	90	125			
Volume Left	2	2	0			
Volume Right	4	0	0			
cSH	867	1462	1700			
Volume to Capacity	0.01	0.00	0.07			
Queue Length 95th (ft)	1	0.00	0.07			
Control Delay (s)	9.2	0.2	0.0			
Lane LOS	Α	A	0.0			
Approach Delay (s)	9.2	0.2	0.0			
Approach LOS	7.2 A	0.2	0.0			
	~					
Intersection Summary						
Average Delay			0.3			
Intersection Capacity Utiliza	ition		16.1%	IC	CU Level c	of Service
Analysis Period (min)			15			

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Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	et F			<del>ا</del>	Y	
Sign Control	Stop			Stop	Stop	
Traffic Volume (vph)	172	65	84	165	44	81
Future Volume (vph)	172	65	84	165	44	81
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	187	71	91	179	48	88
Direction, Lane #	EB 1	WB 1	NB 1			
Volume Total (vph)	258	270	136			
Volume Left (vph)	0	91	48			
Volume Right (vph)	71	0	88			
Hadj (s)	-0.13	0.10	-0.28			
Departure Headway (s)	4.4	4.6	4.8			
Degree Utilization, x	0.32	0.35	0.18			
Capacity (veh/h)	782	744	682			
Control Delay (s)	9.5	10.1	8.9			
Approach Delay (s)	9.5	10.1	8.9			
Approach LOS	А	В	А			
Intersection Summary						
Delay			9.6			
Level of Service			А			
Intersection Capacity Utiliz	ation		50.5%	IC	CU Level c	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		÷			÷			\$			\$	
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	23	134	14	14	162	135	8	39	20	99	44	41
Future Volume (vph)	23	134	14	14	162	135	8	39	20	99	44	41
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Hourly flow rate (vph)	26	151	16	16	182	152	9	44	22	111	49	46
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total (vph)	193	350	75	206								
Volume Left (vph)	26	16	9	111								
Volume Right (vph)	16	152	22	46								
Hadj (s)	0.01	-0.22	-0.12	0.01								
Departure Headway (s)	5.2	4.8	5.5	5.4								
Degree Utilization, x	0.28	0.46	0.12	0.31								
Capacity (veh/h)	643	719	562	609								
Control Delay (s)	10.2	11.8	9.2	10.8								
Approach Delay (s)	10.2	11.8	9.2	10.8								
Approach LOS	В	В	А	В								
Intersection Summary												
Delay			10.9									
Level of Service			В									
Intersection Capacity Utiliza	tion		45.8%	IC	U Level	of Service			А			
Analysis Period (min)			15									

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Movement	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations	Υ		4			र्स	
Traffic Volume (veh/h)	26	60	141	9	27	100	
Future Volume (Veh/h)	26	60	141	9	27	100	
Sign Control	Stop		Free			Free	
Grade	0%		0%			0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	
Hourly flow rate (vph)	28	65	153	10	29	109	
Pedestrians	60		60			60	
Lane Width (ft)	12.0		12.0			12.0	
Walking Speed (ft/s)	3.5		3.5			3.5	
Percent Blockage	6		6			6	
Right turn flare (veh)							
Median type			None			None	
Median storage veh)							
Upstream signal (ft)							
pX, platoon unblocked							
vC, conflicting volume	445	278			223		
vC1, stage 1 conf vol							
vC2, stage 2 conf vol							
vCu, unblocked vol	445	278			223		
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	90			98		
cM capacity (veh/h)	496	676			1269		
			CD 1				
Direction, Lane #	WB 1	NB 1	SB 1				
Volume Total	93	163	138				
Volume Left	28	0	29				
Volume Right	65	10	0				
cSH	609	1700	1269				
Volume to Capacity	0.15	0.10	0.02				
Queue Length 95th (ft)	13	0	2				
Control Delay (s)	12.0	0.0	1.8				
Lane LOS	В		А				
Approach Delay (s)	12.0	0.0	1.8				
Approach LOS	В						
Intersection Summary							
Average Delay			3.5				
Intersection Capacity Utiliz	zation		42.0%	IC	U Level of	of Service	;
Analysis Period (min)			15				
J							

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Volume (veh/h)	11	0	40	33	0	16	44	123	16	12	108	6
Future Volume (Veh/h)	11	0	40	33	0	16	44	123	16	12	108	6
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	12	0	43	36	0	17	48	134	17	13	117	7
Pedestrians		60			60			60			60	
Lane Width (ft)		12.0			12.0			12.0			12.0	
Walking Speed (ft/s)		3.5			3.5			3.5			3.5	
Percent Blockage		6			6			6			6	
Right turn flare (veh)												
Median type								None			None	
Median storage veh)												
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	522	514	240	548	508	262	184			211		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	522	514	240	548	508	262	184			211		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	97	100	94	89	100	98	96			99		
cM capacity (veh/h)	356	394	710	330	396	690	1311			1282		
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total	55	53	199	137								
Volume Left	12	36	48	13								
Volume Right	43	17	17	7								
cSH	583	396	1311	1282								
Volume to Capacity	0.09	0.13	0.04	0.01								
Queue Length 95th (ft)	8	11	3	1								
Control Delay (s)	11.8	15.5	2.1	0.8								
Lane LOS	В	С	А	А								
Approach Delay (s)	11.8	15.5	2.1	0.8								
Approach LOS	В	С										
Intersection Summary												
Average Delay			4.5									
Intersection Capacity Utilization	tion		36.3%	IC	U Level o	of Service			А			
Analysis Period (min)			15									

MovementEBLEBRNBLNBTSBTSBRLane Configurations $\checkmark$ $\bullet$ $\bullet$ $\bullet$ Traffic Volume (veh/h)1451821792Future Volume (veh/h)1451821792Sign ControlStopFreeFreeFreeGradeGrade0%0%0.920.920.920.920.92Hourly flow rate (vph)1451981952PedestriansImage (veh)1451981952PedestriansImage veh)Image (veh)Image (veh)Image veh)Image veh)Image veh)Image veh)Upstream signal (ft)Image veh)Image veh)Image veh)Image veh)Image veh)Image veh)Image veh)Image veh)VC1, stage 1 conf volVC2, stage 2 conf volVC2, stage 1Image veh)Image veh)Image veh)Image veh)Image veh)Image veh)Vc2, stage (s)6.46.24.1Image veh)Image vehImage veh)Image vehImage veh <th></th> <th>٦</th> <th><math>\mathbf{i}</math></th> <th>•</th> <th>1</th> <th>Ļ</th> <th>∢</th>		٦	$\mathbf{i}$	•	1	Ļ	∢
Lane ConfigurationsYITraffic Volume (veh/h)1451821792Future Volume (Veh/h)1451821792Sign ControlStopFreeFreeFreeFreeGrade0%0%0%0%0%Peak Hour Factor0.920.920.920.920.920.92Hourly flow rate (vph)1451981952PedestriansPercent BlockageRight turn flare (veh)Median typeNoneNoneMedian typeNoneNoneNoneNoneNoneMedian storage veh)Upstream signal (ft)px, platoon unblockedvC, conflicting volume404196197vC1, stage 1 conf volvC2, stage 2 conf volvC2, stage 2 conf volvC4106107vC2, stage (s)53.53.32.2p0 queue free %100100100cM capacity (veh/h)6008451376177Volume to Capacity (veh/h)6008451376Direction, Lane #EBNBSBVolume to Capacity0.010.000.122cSHVolume Left15000Control Delay (s)9.60.20.0Approach Delay (s)9.60.20.0Approach Delay (s)9.60.20.0Approach Delay (s)9.60.20.0Approach Delay (S)9.60.20.0 <td< th=""><th>Movement</th><th>EBL</th><th>EBR</th><th>NBL</th><th>NBT</th><th>SBT</th><th>SBR</th></td<>	Movement	EBL	EBR	NBL	NBT	SBT	SBR
Traffic Volume (veh/h)       1       4       5       182       179       2         Future Volume (Veh/h)       1       4       5       182       179       2         Sign Control       Stop       Free       Free       Free       Free         Grade       0%       0%       0%       0%         Peak Hour Factor       0.92       0.92       0.92       0.92       0.92       0.92         Hourly flow rate (vph)       1       4       5       198       195       2         Peak Hour Factor       0.92       0.92       0.92       0.92       0.92       0.92         Hourly flow rate (vph)       1       4       5       198       195       2         Peak Hour Factor       0.92       0.92       0.92       0.92       0.92       0.92         Peak Hour Factor       1       4       5       198       195       2         Pedestrians       East       None       None <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Future Volume (Veh/h)       1       4       5       182       179       2         Sign Control       Stop       Free       Free       Free         Grade       0%       0%       0%       0%         Peak Hour Factor       0.92       0.92       0.92       0.92       0.92       0.92         Hourly flow rate (vph)       1       4       5       198       195       2         Pedestrians			4	5			2
Sign Control         Stop         Free         Free         Free           Grade         0%         0%         0%         0%         0%           Peak Hour Factor         0.92		1					
Grade       0%       0%       0%         Peak Hour Factor       0.92		Stop					
Peak Hour Factor         0.92 <th0.92< th="">         0.92         0.92</th0.92<>							
Hourly flow rate (vph)       1       4       5       198       195       2         Pedestrians       Lane Width (ft)       Walking Speed (ft/s)       Ferent Blockage       Ferent Blockage			0.92	0.92			0.92
PedestriansLane Width (ft)Walking Speed (ft/s)Percent BlockageRight turn flare (veh)Median storage veh)Upstream signal (ft)pX, platoon unblockedvC, conflicting volume404404196vC2, stage 1 conf volvC2, stage 2 conf volvC4, unblocked vol404196197tC, single (s)6.46.46.24.1tC, 2 stage (s)tF (s)3.53.32.2p0 queue free %100100100100cM capacity (veh/h)6008451376Direction, Lane #EB 1VB 1SB 1Volume Total5203197Volume Left115000.12Queue Length 95th (ft)0000Control Delay (s)9.60.20.0Lane LOSAAApproach LOSAIntersection SummaryAverage Delay0.2Intersection Capacity Utilization23.6%ICU Level of Service							
Lane Width (ft)         Walking Speed (ft/s)         Percent Blockage         Right turn flare (veh)         Median type       None         Median storage veh)         Upstream signal (ft)         pX, platoon unblocked         vC, conflicting volume       404         vC1, stage 1 conf vol         vC2, stage 2 conf vol         vC4, unblocked vol       404         vC2, stage 2 conf vol         vC4, unblocked vol       404         vC2, stage (s)         IF (s)       3.5         gage (s)         IF (s)       3.5         Oqueue free %       100         100       100         100       100         100       100         100       100         100       100         100       100         100       100         100       100         101       100         102       203         103       197         Volume Total       5         203       197         Volume Left       1         1       5         0       0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>							
Walking Speed (ft/s)         Percent Blockage         Right turn flare (veh)         Median type       None         Median storage veh)         Upstream signal (ft)         px, platoon unblocked         vC, conflicting volume       404         196       197         vC1, stage 1 conf vol         vC2, stage 2 conf vol         vC4, unblocked vol       404         196       197         tC, single (s)       6.4         tC, single (s)       6.4         tC, single (s)       6.4         tC, single (s)       6.4         tF (s)       3.5         90 queue free %       100         100       100         cM capacity (veh/h)       600         845       1376         Direction, Lane #       EB 1       NB 1         Volume Total       5       203         Volume Left       1       5       0         Volume Right       4       0       2         cSH       782       1376       1700         Volume to Capacity       0.01       0.0       0         Control Delay (s)       9.6       0.2       0.0							
Percent Biockage       None       None         Right turn flare (veh)       None       None         Median storage veh)       Upstream signal (ft)       None       None         pX, platoon unblocked       vC, conflicting volume       404       196       197         vC1, stage 1 conf vol       vC2, stage 2 conf vol       vC4, unblocked vol       404       196       197         vC2, stage 2 conf vol       vC4, unblocked vol       404       196       197       100       100         tC, single (s)       6.4       6.2       4.1       100 <td>.,</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	.,						
Right turn flare (veh)       None       None       None         Median storage veh)       Upstream signal (ft)       None       None       None         VL, stage 1 conf vol       vC, conflicting volume       404       196       197       VC1, stage 1 conf vol       vC2, stage 2 conf vol       VC2, stage 2 conf vol       VC2, stage 2 conf vol       VC1, single (s)       6.4       6.2       4.1       VC1, single (s)       6.4       6.2       4.1       VC1, single (s)       3.5       3.3       2.2       PO queue free %       100       100       100       CM       VC1, stage (s)       VC1, stage (s)       VC1, stage (s)       100       100       100       CM       CM       VC2, stage (s)       VC1, stage (s) </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Median type         None         None           Median storage veh)         Upstream signal (ft)         PX           pX, platoon unblocked         VC, conflicting volume         404         196         197           vC1, stage 1 conf vol         VC2, stage 2 conf vol         VC2, stage 2 conf vol         VC2, stage 2 conf vol           vC1, single (s)         6.4         6.2         4.1         106         197           tC, single (s)         6.4         6.2         4.1         107         100							
Median storage veh)       Upstream signal (ft)         pX, platoon unblocked       vC, conflicting volume       404       196       197         vC1, stage 1 conf vol       vC2, stage 2 conf vol       vC4, unblocked vol       404       196       197         vC2, stage 2 conf vol       vC4, unblocked vol       404       196       197       107         vC2, stage 2 conf vol       vC4, unblocked vol       404       196       197       107         vC3, stage 2 conf vol       vC4, unblocked vol       404       196       197       107         vC4, unblocked vol       404       196       197       107       100       100         vC4, unblocked vol       404       196       197       100 <t< td=""><td></td><td></td><td></td><td></td><td>None</td><td>None</td><td></td></t<>					None	None	
Upstream signal (ft)       pX, platoon unblocked         vC, conflicting volume       404       196       197         vC1, stage 1 conf vol       vC2, stage 2 conf vol       vC4, unblocked vol       404       196       197         vC2, stage 2 conf vol       vC4, unblocked vol       404       196       197       100					110110	10110	
pX, platoon unblocked         vC, conflicting volume       404       196       197         vC1, stage 1 conf vol       vC2, stage 2 conf vol       vCu, unblocked vol       404       196       197         tC, single (s)       6.4       6.2       4.1       4.1       4.1       4.1       4.1         tC, 2 stage (s)            4.1<	<b>0</b> ,						
vC, conflicting volume       404       196       197         vC1, stage 1 conf vol       vC2, stage 2 conf vol       vCu, unblocked vol       404       196       197         vC2, stage 2 conf vol       vCu, unblocked vol       404       196       197         tC, single (s)       6.4       6.2       4.1         tC, 2 stage (s)							
vC1, stage 1 conf vol       vC2, stage 2 conf vol         vCu, unblocked vol       404       196       197         tC, single (s)       6.4       6.2       4.1         tC, 2 stage (s)		404	196	197			
vC2, stage 2 conf vol         vCu, unblocked vol       404       196       197         tC, single (s)       6.4       6.2       4.1         tC, 2 stage (s)		101					
vCu, unblocked vol       404       196       197         tC, single (s)       6.4       6.2       4.1         tC, 2 stage (s)							
tC, single (s)       6.4       6.2       4.1         tC, 2 stage (s)		404	196	197			
tC, 2 stage (s)         tF (s)       3.5       3.3       2.2         p0 queue free %       100       100       100         cM capacity (veh/h)       600       845       1376         Direction, Lane #       EB 1       NB 1       SB 1         Volume Total       5       203       197         Volume Left       1       5       0         Volume Right       4       0       2         cSH       782       1376       1700         Volume to Capacity       0.01       0.00       0.12         Queue Length 95th (ft)       0       0       0         Control Delay (s)       9.6       0.2       0.0         Lane LOS       A       A         Approach Delay (s)       9.6       0.2       0.0         Approach LOS       A       A         Intersection Summary       0.2       0.2         Intersection Capacity Utilization       23.6%       ICU Level of Service							
tF (s)       3.5       3.3       2.2         p0 queue free %       100       100       100         cM capacity (veh/h)       600       845       1376         Direction, Lane #       EB 1       NB 1       SB 1         Volume Total       5       203       197         Volume Left       1       5       0         Volume Right       4       0       2         cSH       782       1376       1700         Volume to Capacity       0.01       0.00       0.12         Queue Length 95th (ft)       0       0       0         Control Delay (s)       9.6       0.2       0.0         Lane LOS       A       A         Approach Delay (s)       9.6       0.2       0.0         Approach LOS       A       A         Average Delay       0.2       0.0         Intersection Summary       0.2       10.2         Intersection Capacity Utilization       23.6%       ICU Level of Service							
p0 queue free %       100       100       100         cM capacity (veh/h)       600       845       1376         Direction, Lane #       EB 1       NB 1       SB 1         Volume Total       5       203       197         Volume Left       1       5       0         Volume Right       4       0       2         cSH       782       1376       1700         Volume to Capacity       0.01       0.00       0.12         Queue Length 95th (ft)       0       0       0         Control Delay (s)       9.6       0.2       0.0         Lane LOS       A       A         Approach Delay (s)       9.6       0.2       0.0         Approach LOS       A       A         Intersection Summary       0.2       1CU Level of Service		35	33	22			
CM capacity (veh/h)         600         845         1376           Direction, Lane #         EB 1         NB 1         SB 1           Volume Total         5         203         197           Volume Left         1         5         0           Volume Right         4         0         2           CSH         782         1376         1700           Volume to Capacity         0.01         0.00         0.12           Queue Length 95th (ft)         0         0         0           Control Delay (s)         9.6         0.2         0.0           Lane LOS         A         A           Approach Delay (s)         9.6         0.2         0.0           Approach LOS         A         A           Intersection Summary         0.2         0.0           Intersection Capacity Utilization         23.6%         ICU Level of Service							
Direction, Lane #         EB 1         NB 1         SB 1           Volume Total         5         203         197           Volume Left         1         5         0           Volume Right         4         0         2           cSH         782         1376         1700           Volume to Capacity         0.01         0.00         0.12           Queue Length 95th (ft)         0         0         0           Control Delay (s)         9.6         0.2         0.0           Lane LOS         A         A           Approach Delay (s)         9.6         0.2         0.0           Approach LOS         A         A           Average Delay         0.2         10.0           Intersection Capacity Utilization         23.6%         ICU Level of Service							
Volume Total         5         203         197           Volume Left         1         5         0           Volume Right         4         0         2           cSH         782         1376         1700           Volume to Capacity         0.01         0.00         0.12           Queue Length 95th (ft)         0         0         0           Control Delay (s)         9.6         0.2         0.0           Lane LOS         A         A           Approach Delay (s)         9.6         0.2         0.0           Approach LOS         A         A           Intersection Summary         0.2         10.2           Intersection Capacity Utilization         23.6%         ICU Level of Service							
Volume Left         1         5         0           Volume Right         4         0         2           cSH         782         1376         1700           Volume to Capacity         0.01         0.00         0.12           Queue Length 95th (ft)         0         0         0           Control Delay (s)         9.6         0.2         0.0           Lane LOS         A         A           Approach Delay (s)         9.6         0.2         0.0           Approach LOS         A         A           Intersection Summary         0.2         0.2           Average Delay         0.2         10.2           Intersection Capacity Utilization         23.6%         ICU Level of Service							
Volume Right         4         0         2           cSH         782         1376         1700           Volume to Capacity         0.01         0.00         0.12           Queue Length 95th (ft)         0         0         0           Control Delay (s)         9.6         0.2         0.0           Lane LOS         A         A           Approach Delay (s)         9.6         0.2         0.0           Approach LOS         A         A           Intersection Summary         0.2         0.2           Average Delay         0.2         10.2           Intersection Capacity Utilization         23.6%         ICU Level of Service							
cSH       782       1376       1700         Volume to Capacity       0.01       0.00       0.12         Queue Length 95th (ft)       0       0       0         Control Delay (s)       9.6       0.2       0.0         Lane LOS       A       A         Approach Delay (s)       9.6       0.2       0.0         Approach LOS       A       A         Intersection Summary       0.2       0.2         Intersection Capacity Utilization       23.6%       ICU Level of Service							
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Intersection Summary     0.2       Average Delay     0.2       Intersection Capacity Utilization     23.6%     ICU Level of Service			0.2	0.0			
Average Delay0.2Intersection Capacity Utilization23.6%ICU Level of Service	Approach LUS	А					
Intersection Capacity Utilization 23.6% ICU Level of Service	Intersection Summary						
				0.2			
	Intersection Capacity Utilization	ation		23.6%	IC	CU Level o	of Service
Analysis Period (min) 15	Analysis Period (min)			15			