

Hampton, Lenzini and Renwick, Inc.

Civil Engineers • Structural Engineers • Land Surveyors • Environmental Specialists www.hlrengineering.com

July 14, 2022

Mr. Russell Colby
City of St. Charles
Director of Community Development
2 E. Main Street
St. Charles, IL 60174

RE: River East Development- Traffic Impact Study

Dear Mr. Colby,

HLR has reviewed the revised traffic impact study submitted by BLA, Inc. on June 21, 2022. We offer the following responses for your consideration.

- 1. It is acknowledged that the revised site-generated traffic based on land use quantity changes is expected to have minimal impact on roadway network operations.
- 2. The site distance for vehicles turning from 2nd Avenue to Illinois Ave has been improved with the reconfiguration of the proposed building and is no longer a concern.
- 3. Verify that the appropriate crossing treatments are included in the current site plans at the proposed pedestrian crossing.

Yours truly,

HAMPTON, LENZINI AND RENWICK, INC.

Callie Castro

Callie Castro, PE, PTOE



Date: June 21, 2022

To: Mr. Curt Hurst

STC 216, LLC

From: Lynn M. Means, P.E., PTOE, RSP1

Senior Transportation Engineer - BLA, Inc

Re: River East Redevelopment

216 S. Riverside Avenue St. Charles, Illinois

BLA-Inc. has conducted an evaluation of traffic conditions in connection with the proposed redevelopment of the property located at 216 S. Riverside Avenue in St. Charles, Illinois. The site is currently vacant, formerly containing the St. Charles Chamber of Commerce. As proposed, the development consists of constructing a four-story apartment building with ground floor retail. It also includes the vacation of Indiana Avenue between Riverside Avenue and 2nd Avenue, as well as the realignment of 2nd Avenue at Riverside Avenue.

The following summarizes the analysis conducted, our findings and provides various recommendations for your consideration. *Exhibits* and *Appendices* referenced are in the Technical Addendum at the end of this document.

EXISTING TRAFFIC

Traffic turning movement counts were performed on Thursday, July 15, 2021, between the hours of 7:00 AM and 7:00 PM and on Saturday, July 17, 2021, between the hours of 7:00 AM and 3:00 PM at the following intersections:

- Indiana Avenue and Riverside Avenue
- Indian Avenue and 2nd Avenue

The following presents a summary of the traffic counts:

Weekday, Thursday, July 15, 2021

- On Thursday, July 15, 2021, between the hours of 7:00 AM and 7:00 PM (12 hours, weekday) there were a total of 142 vehicles that used Indiana Avenue (40 eastbound and 102 westbound).
 - Of the 102 westbound vehicles approximately 70 percent (72 of 102) were destined to the north on Riverside Avenue and 30 percent (30 of 102) were to the south on Riverside Avenue.
 - Of the 102 westbound vehicles on Indiana Avenue, approximately 82 percent (84 of 102) originated from the west on Indiana Avenue, approximately 13 percent (13 of 102) from the north on 2nd Avenue and approximately 5 percent (5 of 102) from the south on 2nd Avenue.
 - Of the 40 eastbound vehicles, 35 percent (14 of 40) were destined to the north on 2nd Avenue, 62.5% (25 of 40) to the east on Indiana Avenue and one (1) vehicle to the south on 2nd Avenue.
 - Of the 40 eastbound vehicles, approximately 42 percent (17 of 40) originated from the north on Riverside Avenue and approximately 58 percent from the south on Riverside Avenue.
- The weekday morning peak hour on Thursday, July 15, 2021, occurred between the hours of 8:30 and 9:30 AM. During this timeframe, there were a total of 17 vehicles that used Indiana Avenue five (5) eastbound and 12 westbound.
 - Of the 12 westbound vehicles approximately 67 percent (4 of 12) were destined to the north on Riverside Avenue and 33 percent (8 of 12) were to the south on Riverside Avenue.
 - Of the 12 westbound vehicles on Indiana Avenue, approximately 92 percent (11 of 12) originated from the west on Indiana Avenue and approximately 8 percent (1 of 12) from the south on 2nd Avenue.



- Of the 5 eastbound vehicles, 60 percent (3 of 5) were destined to the north on 2nd Avenue and 40% (2 of 5) to the east on Indiana Avenue.
- Of the 5 eastbound vehicles, 20 percent (1 of 5) originated from the north on Riverside Avenue and 80 percent (4 of 5) from the south on Riverside Avenue.
- The weekday evening peak hour on Thursday, July 15, 2021, occurred between the hours of 4:30 and 5:30 PM. During this timeframe, there were a total of 13 vehicles that used Indiana Avenue one (1) eastbound and 12 westbound.
 - Of the 12 westbound vehicles approximately 92 percent (11 of 12) were destined to the north on Riverside Avenue and 8 percent (1 of 12) were to the south on Riverside Avenue.
 - Of the 12 westbound vehicles on Indiana Avenue, approximately 58 percent (7 of 12) originated from the west on Indiana Avenue and approximately 42 percent (5 of 12) from the north on 2nd Avenue.
 - o The one eastbound vehicle (100%) was destined to the north on 2nd Avenue.
 - o The one eastbound vehicle (100%) originated from the south on Riverside Avenue.

Saturday, July 17, 2021

- On Saturday, July 17, between the hours of 7:00 AM and 3:00 PM (8 hours, Saturday) there were a total of 63 vehicles that used Indiana Avenue (23 eastbound and 40 westbound).
 - Of the 40 westbound vehicles 55 percent (22 of 40) were destined to the north on Riverside Avenue and 45 percent (18 of 40) were to the south on Riverside Avenue.
 - Of the 40 westbound vehicles on Indiana Avenue, 80 percent (32 of 40) originated from the west on Indiana Avenue, 15 percent (6 of 40) from the north on 2nd Avenue and 5 percent (2 of 40) from the south on 2nd Avenue.
 - Of the 23 eastbound vehicles, approximately 57 percent (13 of 23) were destined to the north on 2nd Avenue, approximately 39% (9 of 23) to the east on Indiana Avenue and one (1) vehicle to the south on 2nd Avenue (approximately 4 percent).
 - Of the 22 eastbound vehicles, approximately 43 percent (10 of 23) originated from the north on Riverside Avenue and approximately 57 percent from the south on Riverside Avenue (13 of 23).
- The *Saturday midday* peak hour on Saturday, July 17, 2021, occurred between the hours of 11:30 AM and 12:30 PM. During this timeframe, there were a total of 16 vehicles that used Indiana Avenue eight (8) eastbound and 8 westbound.
 - Of the 8 westbound vehicles 62.5% percent (5 of 8) were destined to the north on Riverside Avenue and 37.5% percent (3 of 8) were to the south on Riverside Avenue.
 - Of the 8 westbound vehicles on Indiana Avenue, approximately 88% percent (7 of 8) originated from the west on Indiana Avenue and approximately 12 percent (1 of 8) from the south on 2nd Avenue.
 - Of the 8 eastbound vehicles, 37.5% percent (3 of 8) were destined to the north on 2nd Avenue and 62.5% (5 of 8) to the east on Indiana Avenue.
 - Of the 8 eastbound vehicles, 37.5% percent (3 of 8) originated from the north on Riverside Avenue and 62.5% percent (5 of 8) from the south on Riverside Avenue.

The annual average daily traffic (AADT) was also obtained from the Illinois Department of Transportation (IDOT) (www.getttingaroundillinois.com) along the study area roadways near the site and are summarized in *Table 1*.

Table 1: Summary of IDOT AADT Volumes

Location	IDOT AADT (year 2018)
Riverside Avenue	
Between Main St (IL 64) and 5th Ave	1,750
Illinois Avenue	
Between 7th St and 7th Ave	3,050
3rd Avenue	
Between Illinois Avenue and Walnut Avenue	400



In addition, the 2021 intersection volumes were compared to the IDOT roadway segment peak hour volumes, as available, to determine and appropriate adjustment factor to account for abnormal traffic conditions within the study area associated with school and business closures and remote learning / working due to COVID-19. **Table 2** summarizes the comparison along with the adjustment assumed. Note: The highest adjustment realized during each peak period (highlighted in gray in Table 2) was assumed in the analysis to provide a conservative analysis scenario. In addition, the highest adjustment factor (weekday AM peak) was applied to the Saturday midday volumes, since no pre-Covid data was available during that timeframe.

Table 2: Traffic Volume Comparison: COVID-19 Adjustment

	IDOT Volumes	Intersection	COVID Adjustment Factor								
	(2019/2018)	Volumes (2021)	Calculated	Assumed							
Location / Timeframe	AM PM	AM PM	AM PM	AM PM							
Riverside Avenue				No. 728 Editor State							
Between Main St & 5th Ave	127 198	82 186	1.55 1.06	1.55 1.06							

Summaries of the intersection turning movement and IDOT traffic count data are contained in *Appendix A and Appendix B*, respectively. It should be noted, the IDOT traffic volumes presented in Appendix B represent "raw", unadjusted data. These volumes are adjusted based on day of week and month of year factors, resulting in an AADT which is lower than the raw total.

The unadjusted existing peak hour and IDOT AADT volumes are illustrated on Exhibit 1A, and the adjusted existing peak hour volumes are illustrated on Exhibit 1B. Note: The existing traffic volumes at the Riverside Avenue and 2^{nd} Avenue intersection, as illustrated on Exhibit 1, were assumed based on the existing traffic volumes at the adjacent Indiana Avenue intersections.

EXISTING TRAFFIC ANALYSIS

Capacity and Queue Analysis

A primary result of capacity analysis is the assignment of levels of service to traffic facilities under various traffic flow conditions. The capacity analysis methodology is based on the concepts and procedures in the Transportation Research Board's (TRB) Highway Capacity Manual (HCM), 6th Edition. The concept of level of service (LOS) is defined as a qualitative measure describing operational conditions within a traffic stream and their perception by motorists and/or passengers. A level-of-service definition provides an index to quality of traffic flow in terms of such factors as speed, travel time, freedom to maneuver, traffic interruptions, comfort, convenience and safety.

Six levels of service are defined for each type of facility. They are given letter designations from A to F, with LOS A representing the best operating conditions and LOS F the worst. A description of the operating condition under each level of service is provided in *Table 3*.

Table 3: Level of Service (LOS) Summary

		Average Control	Delay (sec/veh)
LOS	Description	Signalized	Unsignalized
A	Describes conditions with little to no delay to motorists.	≤ 10	≤ 10
В	Represents a desirable level with relatively low delay to motorists.	$>10 \text{ and } \le 20$	$>10 \text{ and } \le 15$
C	Describes conditions with average delays to motorists.	>20 and ≤ 35	>15 and ≤ 25
D	Describes operations where the influence of congestion becomes more noticeable. Delays are still within an acceptable range.	>35 and ≤ 55	>25 and ≤ 35
Е	Represents operating conditions with high delay values. This level is often considered within urban settings or for minor streets intersecting major arterial roadways to be the limit of acceptable delay.	>55 and ≤ 80	>35 and ≤ 50
F	Is considered unacceptable to most drivers with high delay values that often occur when arrival flow rates exceed the capacity of the intersection.	>80	>50



Capacity and queue analyses were conducted at all study intersections under Existing (adjusted) traffic volume conditions through application of the procedures described above. The results of the intersection analyses are discussed below and are summarized in *Table 4*. All analysis worksheets are provided in *Appendix C*.

Table 4: Level-of-Service and Queue Analysis Summary - Existing Traffic

		Existing	
Intersection/Peak Hour/Movement	Delay ¹	LOS ²	Queue ³
2 nd Avenue at Indiana Avenue	testelle valuation		P. Carlotte
Weekday AM			and the second s
Indiana Ave EB approach	9.2	Α	
Indiana Ave WB approach	9.2	Α	
2 nd Ave NB left-turns	7.2	Α	
2 nd Ave SB left-turns	7.2	A	
Weekday PM			
Indiana Ave EB approach	8.8	Α	
Indiana Ave WB approach	9.2	A	
2 nd Ave NB left-turns	7.2	Α	
2 nd Ave SB left-turns	7.2	Α	
Saturday Midday			
Indiana Ave EB approach	9.2	Α	3
Indiana Ave WB approach	9.2	Α	3
2 nd Ave NB left-turns	7.2	Α	
2 nd Ave SB left-turns	7.3	A	
Riverside Avenue at Indiana Avenue			
Weekday AM			
Indiana Ave WB approach	9.2	Α	3
Riverside Ave SB left-turns	7.4	Α	
Weekday PM			
Indiana Ave WB approach	9.0	Α	3
Riverside Ave SB left-turns	7.5	A	
Saturday Midday			
Indiana Ave WB approach	10.0	В	3
Riverside Ave SB left-turns	7.3	A	
Riverside Avenue at 2 nd Avenue		CE ENDWEST	Market Mer
Weekday AM			
2 nd Ave WB approach	9.4	A	
Riverside Ave SB left-turns	7.4	A	
Weekday PM			
2 nd Ave WB approach	9.9	Α	3
Riverside Ave SB left-turns	7.5	A	
Saturday Midday			
2 nd Ave WB approach	10.6	В	3
Riverside Ave SB left-turns	7.7	A	

¹ Average control delay in seconds per vehicle.

As shown, all movements at the unsignalized intersections operate at desirable levels of service (at LOS "B" or better) during all three peak periods studied. The 95th percentile queue lengths on all approaches do not exceed one vehicle.

² Level of service.

³ 95th percentile queue length in feet per lane.



SITE TRAFFIC CHARACTERISTICS

Proposed Development Plan

As proposed, the development consists of redeveloping the site to provide a four-story building, containing 42 residential dwelling units. The ground floor is anticipated to include a bicycle shop (6,422 square-feet). The development will be served by a total of 60 off-street parking spaces, including 3 accessible spaces. The development also includes the vacation of Indiana Avenue between Riverside Avenue and 2^{nd} Avenue, as well as the realignment of 2^{nd} Avenue at Riverside Avenue.

Trip Generation

The amount of traffic generated by a development depends on the type and density of the land use. Trip generation estimates for the development were calculated based on information published in the Institute of Transportation Engineers (ITE) Manual *Trip Generation*, 11th Edition (see *Appendix D*). The ITE manual is a compilation of national traffic data surveys used to estimate traffic volumes for various land uses.

The ITE data does not represent locations with measurable biking, walking and other non-auto trips. Based on the US Census Bureau, 2015-2019 America Community Survey Data, Mode of Transportation (Journey to Work) for Census Tract 8523, approximately 90 percent use auto (personal vehicles and/or taxi/rideshare carpool) to commute to/from work (see *Appendix E*). However, to provide a conservative scenario, test the maximum site impacts, the ITE trip generation estimates were *not* discounted for residents that carpool and/or use alternative modes to travel to/from work (bike, walk, work from home, etc.).

For multi-use developments, internal trips between the land uses within the development are expected to occur. These are multi-purpose trips from one land use within the development to another land use within the same development. However, to provide a conservative analysis scenario, a reduction for internal capture was *not* applied.

Table 5 provides a summary of the total trips to be generated by the proposed development, including residents, visitors, deliveries, etc.

Table 5: Estimated Trip Generation

	ITE	Second T		We	ekday				Saturda	y		
	Land	AM	Peak F	Iour 1	PN	I Peak H	Iour ²	Peak Hour ³				
Land Use / Size	Use Code	In	Out	Total	In	Out	Total	In	Out	Total		
Multi-Family / 42 Units	221	2	5	7	10	7	17	9	8	17		
Retail/Bike Shop	822 4	9	6	15	21	21	42	21	21	42		
Total		11	11	22	31	28	59	30	29	59		

One hour between 7:00 and 9:00 AM.

Note: The existing site formerly contained the St. Charles Chamber of Commerce. Thus, the trips as presented above in Table 5 provide a conservative analysis scenario (do not discount for the former site use).

Directional Distribution

The anticipated trip distribution of new site traffic is summarized in *Table 6*. This was based on current travel patterns, the operational characteristics of the street system and site access.

² One hour between 4:00 and 6:00 PM.

³ The hour with the highest volume of traffic (combined entering & exiting); may occur in the AM or PM.

⁴ The ITE average rates were assumed in the analysis due to the small building footprint and lower anticipated vehicular trip generation based on the proposed use (bike shop).



Table 6: Trip Distribution

Route & Direction	Percent Route (To/From)
Illinois Avenue	
East of 2 nd Avenue	40%
West of Riverside Avenue	20%
Riverside Avenue	
North of Illinois Avenue	25%
South of 2 nd Avenue	15%
Indiana Avenue	
East of 2 nd Avenue	
2 nd Avenue	
North of Illinois Avenue	
Total	100%

⁻⁻ Less than 5 percent.

Site Traffic Assignment

As previously described, in connection with the proposed development, Indiana Avenue is proposed to be vacated between Riverside Avenue and 2nd Avenue and Riverside Avenue. *Exhibit 2* illustrates the re-routing of existing traffic volumes with the proposed vacation of Indiana Avenue.

The site vehicular traffic assignment is illustrated on *Exhibit 3*, which is based on the site estimated trips (*Table 5*) and the anticipated direction distribution (*Table 6*).

Traffic Growth

Construction and occupancy of the proposed development is anticipated to occur by the year 2023. Future traffic volumes were developed for the year 2028, build-out plus five years. Based on a review of historical IDOT traffic volumes (see *Appendix F*), the study area roadways have experienced minimal, if any, growth over the past 10 years. However, to provide a conservative analysis scenario, a 1.0 percent per year compounded growth rate was applied.

Total Traffic Conditions

The site generated traffic volumes (*Exhibit 3*), as well as the re-routing of existing traffic volumes with the vacation of Illinois Avenue (*Exhibit 2*) were then added to the existing traffic volumes (Exhibit 1B), as well as a 1.0 percent compounded growth rate applied. The total traffic volumes are shown on *Exhibit 4*.

Site Traffic Increases

The total (including both entering and exiting) weekday AM, weekday PM and Saturday midday peak hour *vehicular* trips of 22, 59 and 59, are expected on the streets leading beyond the study area, or approximately 1 additional vehicle every 1 to 3 minutes.

As shown on *Exhibit 3* and in *Tables 5 and 6*, approximately 45 percent of the site traffic will travel through the Illinois Street and Riverside Avenue intersection, representing approximately 10 to 27 additional vehicles per hour, or approximately 1 additional vehicle per 2 to 6 minutes. This increase represents less than one additional vehicle per cycle length at this intersection, which, accordingly, will not materially impact overall intersection operations and can be accommodated within the existing roadway geometrics and signal timings.

As noted, this increase does not discount for residences that use alternative modes to travel to/from work or the former site use. Accordingly, the amount of site-generated traffic is expected to have minimal effects on the operations of the external street network, which assumes the vacation of Indiana Avenue between Riverside Avenue and 2nd Avenue.



FUTURE TRAFFIC ANALYSIS

Capacity and queue analyses were conducted for assessing future traffic conditions of the weekday morning and evening and Saturday midday peak hours, again using the methodologies outlined in the Highway Capacity Manual. Summaries of the capacity and queue analyses under future (existing plus site traffic, including the resignment of existing traffic associated with the vacation of Indiana Avenue between Riverside Avenue and 2^{nd} Avenue) conditions are presented in Table 7 and discussed below. All output worksheets used for these analyses are contained in Appendix G.

Table 7: Level-of-Service and Queue Analysis Summary - Total Traffic

		Total Traffic	2
Intersection/Peak Hour/Movement	Delay ¹	LOS ²	Queue ³
2 nd Avenue at Indiana Avenue			
Weekday AM			
Indiana Ave WB approach	8.8	Α	3
2 nd Ave SB left-turns	7.3	Α	
Weekday PM			
Indiana Ave WB approach	9.0	Α	
2 nd Ave SB left-turns	7.3	Α	
Saturday Midday			
Indiana Ave WB approach	9.0	Α	3
2 nd Ave SB left-turns	7.3	A	
Riverside Avenue at 2 nd Avenue		Brack Line And	
Weekday AM			
2 nd Ave WB approach	9.4	Α	3
Riverside Ave SB left-turns	7.4	Α	
Weekday PM			
2 nd Ave WB approach	9.7	Α	5
Riverside Ave SB left-turns	7.5	Α	
Saturday Midday			
2 nd Ave WB approach	10.7	В	8
Riverside Ave SB left-turns	7.7	Α	

¹ Average control delay in seconds per vehicle.

As shown, all movements at the unsignalized intersections will continue to operate at desirable levels of service (at LOS "B" or better) during all three peak periods studied under future conditions with the proposed development traffic. The 95th percentile queue lengths on all approaches do not exceed one vehicle.

As previously described, future (total) traffic conditions assumed Indiana Avenue would be vacated between Riverside Avenue and 2nd Avenue. It also assumed modifications will be made to the intersection of Riverside Avenue and 2nd Avenue to facilitate traffic operations and improve safety: 2nd Avenue is proposed to be realigned, closer to a 90-degree angle, improving sight lines for turning maneuvers. This will also serve as a traffic calming measure to slow and discourage cut-through traffic on 2nd Avenue (from northbound Riverside Avenue).

² Level of service.

³ 95th percentile queue length in feet per lane.



CONCLUSIONS AND RECOMMENDATIONS

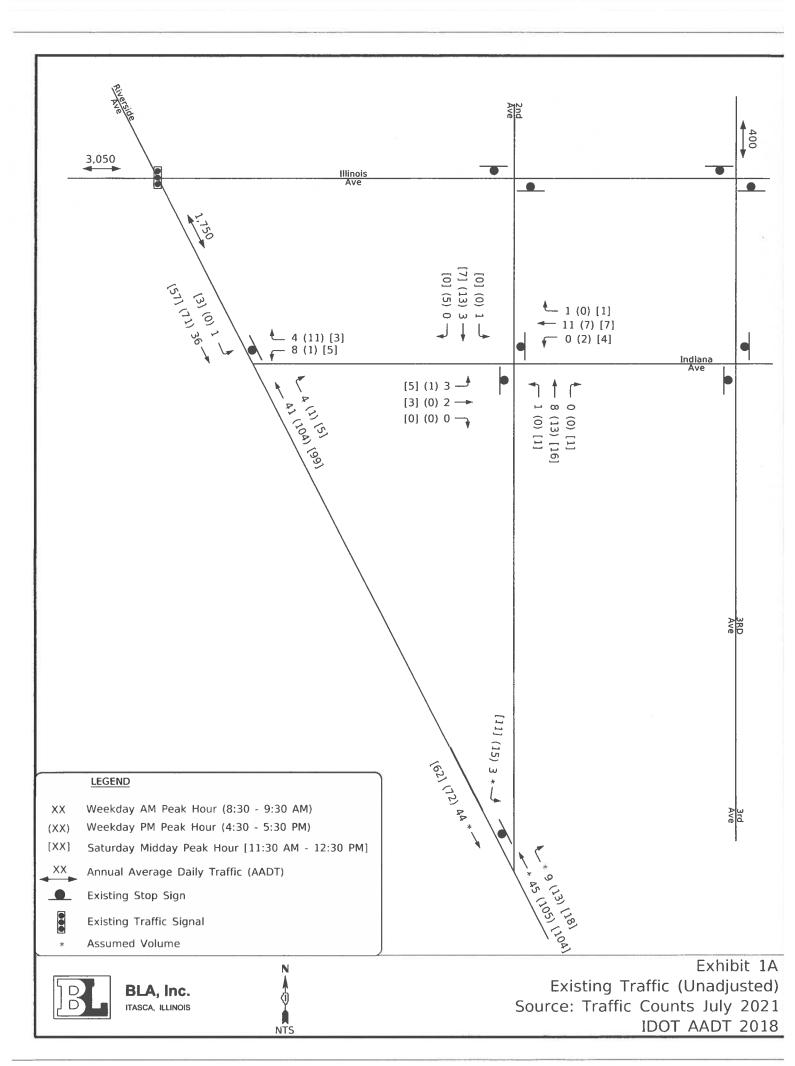
A traffic summary was performed for the proposed River East redevelopment located at 216 S. Riverside Avenue in St, Charles, Illinois. Overall, the development is anticipated to have little effect on the operations of the area roadway network. It is anticipated that the existing traffic volumes on Indiana Avenue between Riverside Avenue and 2nd Avenue, along with the proposed site traffic, could be readily accommodated within the adjacent roadway network, assuming the proposed vacation of Indiana Avenue. The proposed improvements at Riverside Avenue and 2nd Avenue are anticipated to facilitate and calm traffic operations and improve safety.

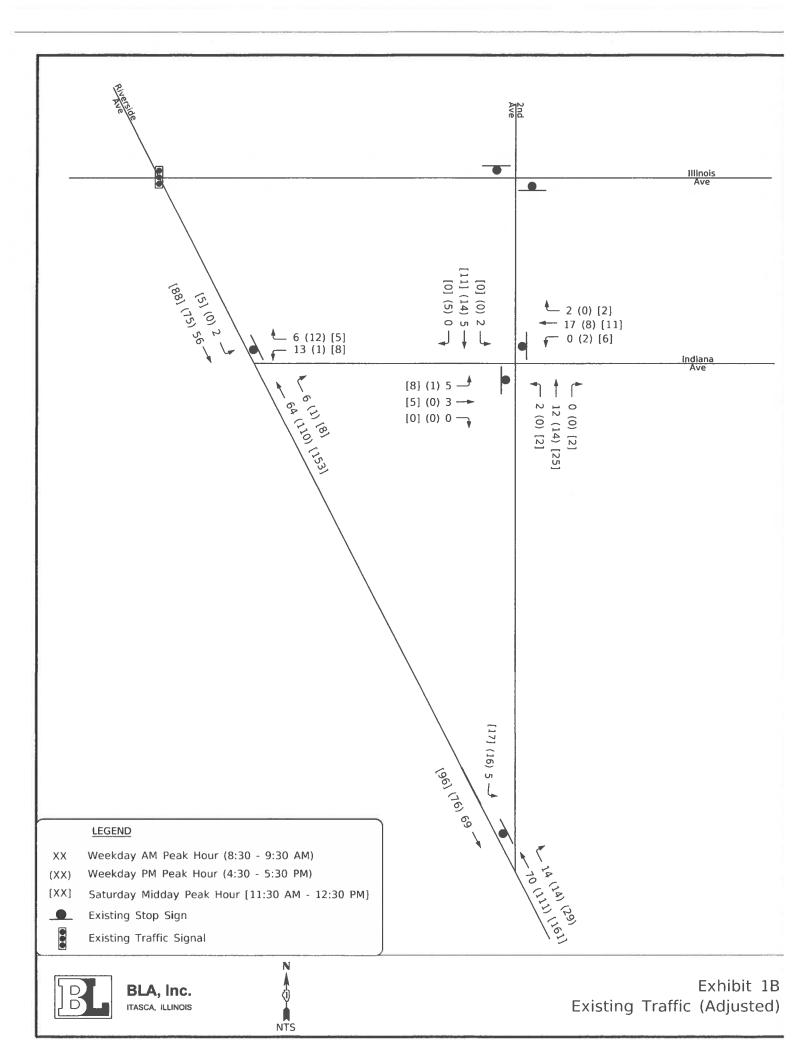


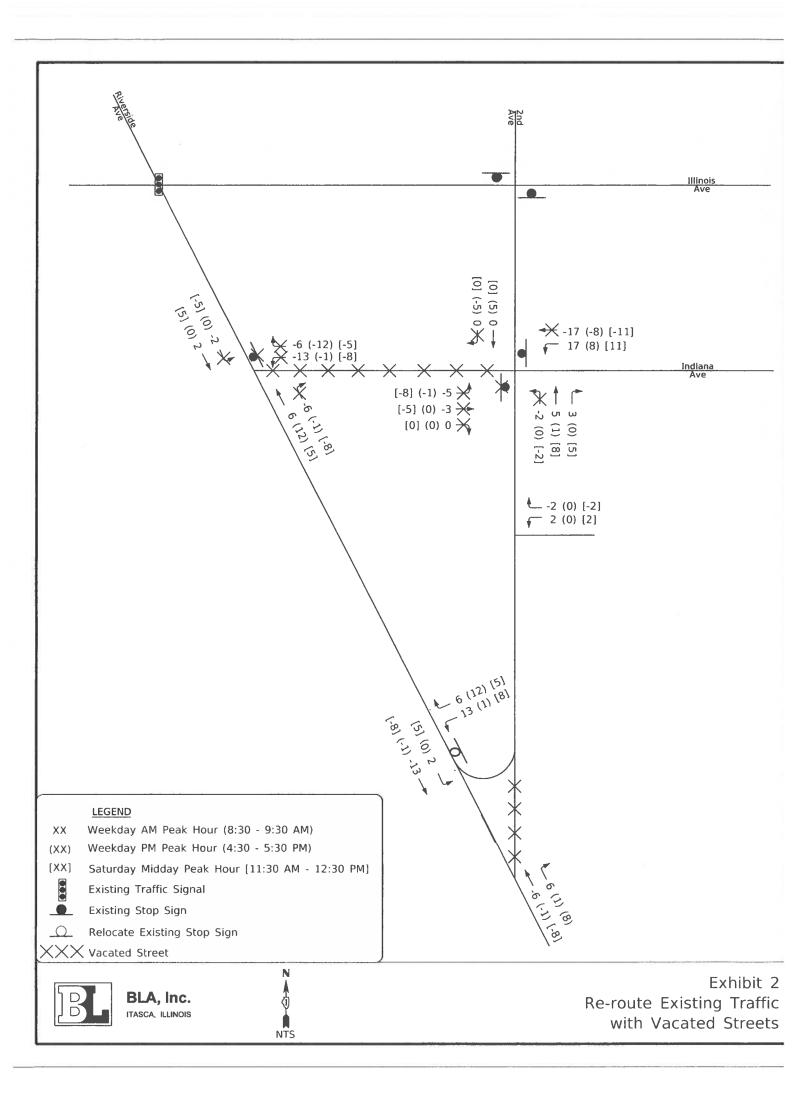
TECHNICAL ADDENDUM

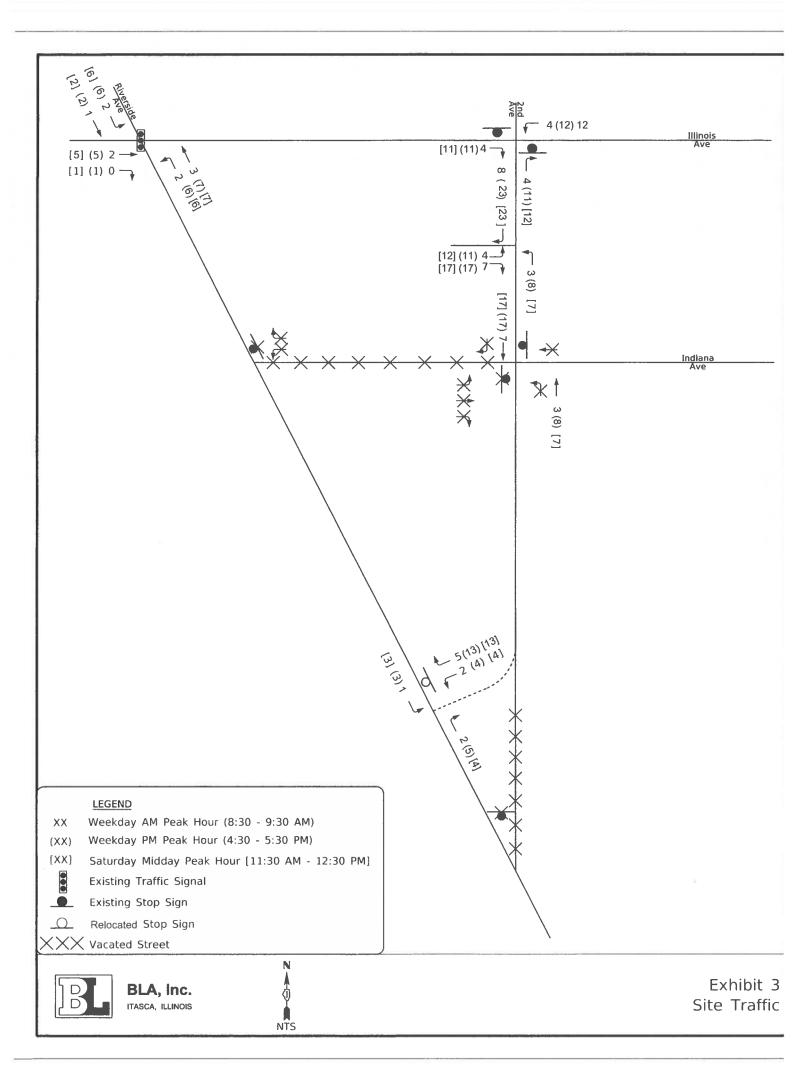


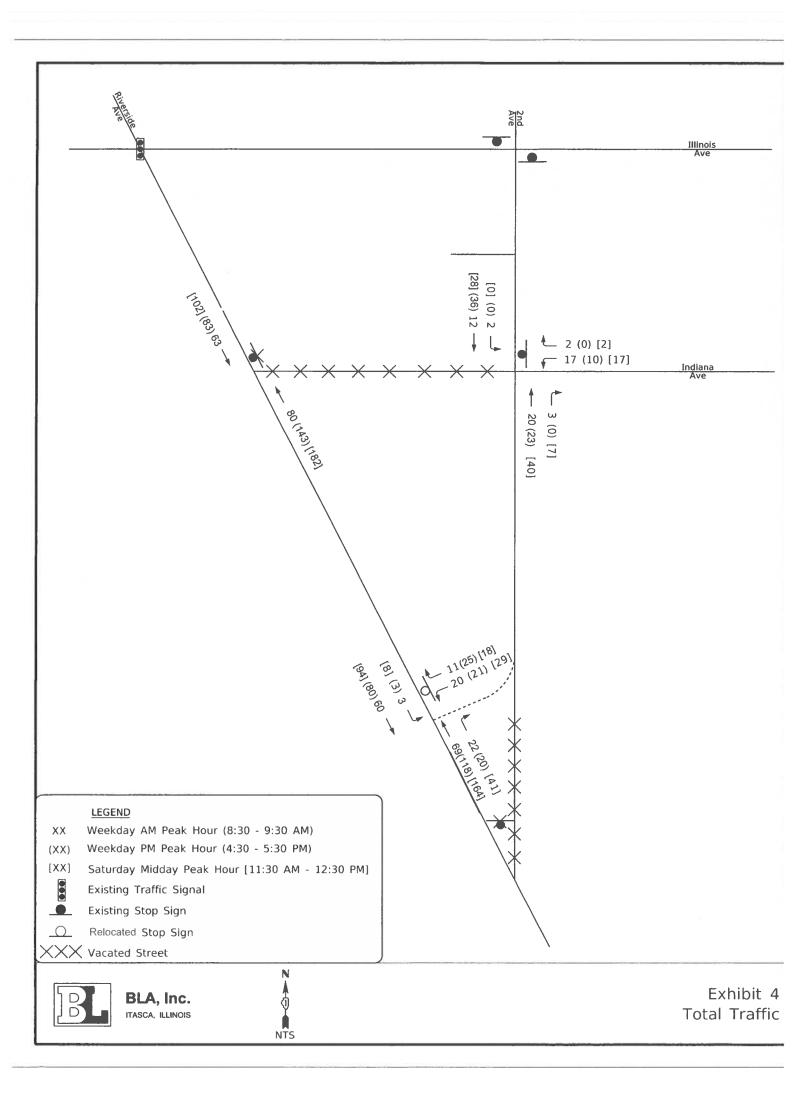
Exhibits













Appendices



Appendix A

Intersection Traffic Count Summaries

Thu Jul 15, 2021

Full Length (7 AM-7 PM)

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks,

Pedestrians, Bicycles on Crosswalk)

All Movements

ID: 856004, Location: 41.911772, -88.311372



Provided by: Gewalt Hamilton Associates Inc. 625 Forest Edge Drive, Vernon Hills, IL, 60061, US

eg Direction	- 1	Indiana Westbound					Riverside Northbound					Riverside Southbound					
îme		L	R	U	Арр	Ped*	Т	R	U	Арр	Ped*	L	Т	U	Арр	Ped*	Int
2021-07-15 7:0	DAM	0	1	0	1	0	5	1	0	6	0	0	3	0	3	0	1
7:1	5AM	0	1	0	1	0	3	0	0	3	0	0	4	0	4	0	
	DAM	0	2	0	2	0	11	1	0	12	0	0	8	0	8	0	7
	SAM	0	0	0	0	0		0	0	15	0	0	6	0	6	0	2
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	DAM	4	1	0	5	0		1	0	9	0		14	0	14	0	
	5AM	1	0	0	1	0		2	0	15	0		7	0	7	0	
Hourly	_	6	2	0	8	0		3	0	54	0		41	. 0	41	0	_
	DAM	0	2	0	2	0		0	0	11	0		7	0	8	0	2
	5AM	2	1	0	3	0	9	1	0	10	0		8	0	8	0	
	DAM	1	1	0	2	1	9	0	0	9	0		12	0	12	0	- 2
	_	1	0	0	1	0		1	0	11	0	-	11	0	11	0	2
	5AM Fotal	4	. 4	0	8	. 1	39	2	0	41	0		38	. 0	39	0	1000
Hourly 10:0	_	0	0	0	0	1	15	0	0	15	0		12	0	12	0	
	_									12				0	12	0	
	5AM	0	2	0	2	1	11	1	0		0		11				2
	MAC	0	1	0	1	0		0	0	16	0		10	0	10	0	- 2
	5AM	0	1	0	1	0		0	0	16	0		13	0	13	0	3
Hourly	_	0	4	0	4	2		. 1	0	59	0		46	0	47	0	
11:0		2	4	0	6	0		1	0	22	0		20	0	20	0	
11:1	5AM	1	2	0	3	0		0	0	12	0		11	0	12	0	- 2
	DAM	1	0	0	1	0	21	0	0	21	0		22	0	24	0	4
11:4	5AM	0	1	0	1	0	14	0	0	14	0		18	0	18	0	3
Hourly	Total	4	7	0	11	0	68	1	0	69	0	3	71	0	74	0	15
12:0	0PM	0	4	0	4	2	20	2	0	22	0	1	24	0	25	0	
12:1	5PM	0	2	0	2	0	18	0	0	18	0	0	19	0	19	0	
12:3	0PM	1	1	0	2	0	16	0	0	16	0	0	26	0	26	0	4
12:4	5PM	2	0	0	2	0	15	2	0	17	0	0	20	0	20	0	:
Hourly	Total	3	7	0	10	2	69	4	0	73	0	1	89	0	90	0	15
1:0	0PM	3	3	0	6	0	9	0	0	9	0	2	13	0	15	0	- 3
1:1	5PM	0	0	0	0	0	11	1	0	12	0	1	10	0	11	0	- :
	0PM	1	0	0	1	0	14	0	0	14	0	0	16	0	16	0	:
	5PM	0	0	0	0	1	15	0	0	15	0	1	18	0	19	0	3
Hourly		4	3	0	7	1	49	1	0	50	0		57	0	61	0	
	0PM	1	1	0	2	1		2	0	12	0		22	0	22	0	
	5PM	0	0	0	0	0		0	0	20	0		13	0	13	0	
	0PM	0	6	0	6	0		0	0	20	0		16	0	16	0	
	5PM	1	7	0	8	0		0	0	15	0		20	0	20	0	
			14	0	16	1	2/2/3	2	0	67	0		71	0	71	0	
Hourly	\rightarrow	2				1	19	0	0	19	0		7	0	8	0	
	0PM	1	1	0	2					19	0		13	0	15	0	-
	5PM	2	3	0	5	0		0	0			<u> </u>					_
	0PM	2	2	0	4	0		3	0	27	0		9	0	9	0	
	5PM	0	1	0	1	0		0	0	25	0		23	0	24	. 0	
Hourly	$\overline{}$	5	7	0	12	. 1		3	0	85	0		52	0	. 56	. 0	
	0PM	0	0	0	0	0		1	0	17	0		21	0	21	0	
	5PM	0	2	0	2	0		0	0	22	0		13	0	14	0	
	0PM	1	4	0	5	0		0	0	22	0		16	0	16	0	-
4:4	5PM	0	3	0	3	1		1	0	23	0		13	0	13	0	_
Hourly	Total	1	9	0	10	1	82	. 2	0	84	0	1	63	0	64	. 0	
5:0	0PM	0	0	0	0	0	27	0	0	27	0	0	22	0	22	0	
5:1	5PM	0	4	0	4	0	33	0	0	33	0	0	20	0	20	0	1
	ОРМ	1	0	0	1	0	26	0	0	26	0	1	14	0	15	0	-

Leg	Indiana					Riverside					Riverside					
Direction	Westboun	d				Northboun	ıd				Southbou	nd				
Time	L	R	U	Арр	Ped*	Т	R	U	App	Ped*	L	Т	U	App	Ped*	Int
5:45PM	0	1	0	1	0	14	1	0	15	0	1	9	0	10	0	26
Hourly Total	1	5	0	6	0	100	1	0	101	0	2	65	0	67	. 0	174
6:00PM	0	2	0	2	0	18	0	0	18	0	0	11	0	11	0	31
6:15PM	1	2	0	3	3	19	1	0	20	0	0	11	0	11	0	34
6:30PM	0	0	0	0	2	15	0	0	15	0	0	10	0	10	0	25
6:45PM	0	0	0	0	1	17	0	0	17	0	0	7	0	7	0	24
Hourly Total	1	4	0	5	6	69	1	0	70	0	- 0	39	0	39	0	114
Total	31	70	0	101	15	766	23	0	789	0	17	653	0	670	0	1560
% Approach	30.7%	69.3%	0%	-	-	97.1%	2.9%	0%	-	-	2.5%	97.5%	0%	-	-	-
% Total	2.0%	4.5%	0%	6.5%	-	49.1%	1.5%	0%	50.6%	-	1.1%	41.9%	0%	42.9%	-	
Lights	30	70	0	100	-	744	22	0	766	-	17	640	0	657		1523
% Lights	96.8%	100%	0%	99.0%	-	97.1%	95.7%	0%	97.1%	-	100%	98.0%	0%	98.1%	-	97.6%
Articulated Trucks	0	0	0	0	-	3	0	0	3	-	0	0	0	0	-	3
% Articulated Trucks	0%	0%	0%	0%	-	0.4%	0%	0%	0.4%	-	0%	0%	0%	0%	-	0.2%
Buses and Single-Unit Trucks	1	0	0	1	-	19	1	0	20	-	0	13	0	13	-	34
% Buses and Single-Unit Trucks	3.2%	0%	0%	1.0%	-	2.5%	4.3%	0%	2.5%	-	0%	2.0%	0%	1.9%	-	2.2%
Pedestrians	-	-	-	-	15	-	-	-	-	0	-	-	-	-	0	
% Pedestrians	-	-	-	-	100%	-	-	-	-	-	-	-	-	-	-	-
Bicycles on Crosswalk		-	-	-	0	-	-	-	-	0	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	0%	-	-	-	-	-	-	-	-	-	-	

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

Thu Jul 15, 2021

Forced Peak (8:30 AM - 9:30 AM)

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks,

Pedestrians, Bicycles on Crosswalk)

All Movements

ID: 856004, Location: 41.911772, -88.311372



Leg	Indiana					Riverside					Riverside	:				
Direction	Westboun	d				Northbour	nd				Southbou	ınd				
Time	L	R	U	App	Ped*	Т	R	U	Арр	Ped*	L	Т	U	Арр	Ped*	Int
2021-07-15 8:30AM	4	1	0	5	0	8	1	0	9	0	0	14	0	14	0	28
8:45AM	1	0	0	1	0	13	2	0	15	0	0	7	0	7	0	23
9:00AM	0	2	0	2	0	11	0	0	11	0	1	7	0	8	0	21
9:15AM	2	1	0	3	0	9	1	0	10	0	0	8	0	8	0	21
Total	7	4	0	11	0	41	4	0	45	0	1	36	0	37	0	93
% Approach	63.6%	36.4%	0%	-	-	91.1%	8.9%	0%	-	-	2.7%	97.3%	0%	_	-	_
% Total	7.5%	4.3%	0%	11.8%	-	44.1%	4.3%	0%	48.4%	-	1.1%	38.7%	0%	39.8%	-	-
PHF	0.438	0.500	-	0.550	-	0.788	0.500	-	0.750	-	0.250	0.643	-	0.661	-	0.830
Lights	7	4	0	11	-	40	3	0	43	-	1	34	0	35	-	89
% Lights	100%	100%	0%	100%	-	97.6%	75.0%	0%	95.6%	-	100%	94.4%	0%	94.6%	-	95.7%
Articulated Trucks	0	0	0	0	-	0	0	0	0		0	0	0	0	-	0
% Articulated Trucks	0%	0%	0%	0%	-	0%	0%	0%	0%	-	0%	0%	0%	0%	-	0%
Buses and Single-Unit Trucks	0	0	0	0	-	1	1	0	2	-	0	2	0	2	-	4
% Buses and Single-Unit Trucks	0%	0%	0%	0%	-	2.4%	25.0%	0%	4.4%	-	0%	5.6%	0%	5.4%	-	4.3%
Pedestrians	-	-	-	-	0	-	_	-	-	0	-	-	-	-	0	
% Pedestrians	-	-	-	-	-	-	-	-	-	-	(#0)	-	-	-	-	-
Bicycles on Crosswalk	-	-	-	-	0	-	•	-	-	0		-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	-	-	-	-	-	(#3)	*	-	-	-	

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

Thu Jul 15, 2021

Midday Peak (12 PM - 1 PM)

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks, Pedestrians, Bicycles on Crosswalk)

All Movements

ID: 856004, Location: 41.911772, -88.311372



Provided by: Gewalt Hamilton Associates Inc. 625 Forest Edge Drive, Vernon Hills, IL, 60061, US

Leg		Indiana					Riverside					Riverside					
Direction		Westboun	d				Northbou	nd				Southbou	ınd				
Time		L	R	U	Арр	Ped*	Т	R	U	Арр	Ped*	L	Т	U	Арр	Ped*	Int
2021-07-15 12:0	0PM	0	4	0	4	2	20	2	0	22	0	1	24	0	25	0	51
12:1	5PM	0	2	0	2	0	18	0	0	18	0	0	19	0	19	0	39
12:3	0PM	1	1	0	2	0	16	0	0	16	0	0	26	0	26	0	44
12:4	5PM	2	0	0	2	0	15	2	0	17	0	0	20	0	20	0	39
	l'otal	3	7	0	10	2	69	4	0	73	0	1	89	0	90	0	173
% Аррг	oach	30.0%	70.0%	0%	-	-	94.5%	5.5%	0%	-	-	1.1%	98.9%	0%	_	-	-
%′	Cotal	1.7%	4.0%	0%	5.8%	-	39.9%	2.3%	0%	42.2%	-	0.6%	51.4%	0%	52.0%	-	-
	PHF	0.375	0.438	-	0.625	-	0.863	0.500	-	0.830	-	0.250	0.856	-	0.865	-	0.848
L	ghts	3	7	0	10	-	64	4	0	68	-	1	87	0	88	-	166
% L	ghts	100%	100%	0%	100%	-	92.8%	100%	0%	93.2%	-	100%	97.8%	0%	97.8%	-	96.0%
Articulated Tr	ucks	0	0	0	0	-	1	0	0	1	_	0	0	0	0	-	1
% Articulated Tr	ucks	0%	0%	0%	0%	-	1.4%	0%	0%	1.4%	-	0%	0%	0%	0%	-	0.6%
Buses and Single-Unit Tr	ıcks	0	0	0	0	-	4	0	0	4	-	0	2	0	2	-	6
% Buses and Single-Unit Tr	ıcks	0%	0%	0%	0%	-	5.8%	0%	0%	5.5%	-	0%	2.2%	0%	2.2%	-	3.5%
Pedest	ians	-	-	-	-	2	-	-	-	-	0	_		-	-	0	
% Pedest	rians	-	-	-	-	100%	-	_	-	-	-	-	-	-	-	-	-
Bicycles on Cross	walk	-	-	-	-	0	-	-	-	-	0	-	-	-	-	0	
% Bicycles on Cross	walk	-	-	-	-	0%	-	-	-	-	-	-	-	~	-	-	

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

Thu Jul 15, 2021

PM Peak (4:30 PM - 5:30 PM) - Overall Peak Hour

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks,

Pedestrians, Bicycles on Crosswalk)

All Movements

ID: 856004, Location: 41.911772, -88.311372



Leg		Indiana					Riverside					Rivers	side				
Direction		Westbou	nd				Northbour	nd				South	bound				
Time		L	R	U	Арр	Ped*	Т	R	U	Арр	Ped*	L	Т	U	Арр	Ped*	Int
	2021-07-15 4:30PM	1	4	0	5	0	22	0	0	22	0	0	16	0	16	0	43
	4:45PM	0	3	0	3	1	22	1	0	23	0	0	13	0	13	0	39
	5:00PM	0	0	0	0	0	27	0	0	27	0	0	22	0	22	0	49
	5:15PM	0	4	0	4	0	33	0	0	33	0	0	20	0	20	0	57
	Total	1	11	0	12	1	104	1	0	105	0	0	71	0	71	0	188
	% Approach	8.3%	91.7%	0%	_	-	99.0%	1.0%	0%	-	-	0%	100%	0%	-	-	-
	% Total	0.5%	5.9%	0%	6.4%	-	55.3%	0.5%	0%	55.9%	-	0%	37.8%	0%	37.8%	-	-
	PHF	0.250	0.688	-	0.600	-	0.788	0.250	-	0.795	-	-	0.807	-	0.807	-	0.825
	Lights	1	11	0	12	-	104	1	0	105	-	0	71	0	71	_	188
	% Lights	100%	100%	0%	100%	_	100%	100%	0%	100%	-	0%	100%	0%	100%	-	100%
	Articulated Trucks	0	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0
	% Articulated Trucks	0%	0%	0%	0%	_	0%	0%	0%	0%	-	0%	0%	0%	0%	-	0%
Bi	uses and Single-Unit Trucks	0	0	0	0		0	0	0	0	-	0	0	0	0	-	0
% B	uses and Single-Unit Trucks	0%	0%	0%	0%	-	0%	0%	0%	0%	-	0%	0%	0%	0%	-	0%
	Pedestrians	-	-	-	-	1	-		-	~	0	-	-	-	-	0	
	% Pedestrians	-	-	-	-	100%	-	-	_	-	-	-		-	-	-	-
	Bicycles on Crosswalk	-		-	-	0	-	-	-	-	- 0	-	-	-	-	0	
	% Bicycles on Crosswalk	-	-	-	-	0%	-	-	-	-	-	-	-	-	-	-	

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

Riverside Ave / Indiana Ave - TMC

Sat Jul 17, 2021

Full Length (7 AM-3 PM)

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks, Pedestrians, Bicycles on Crosswalk)

All Movements



Provided by: Gewalt Hamilton Associates Inc. 625 Forest Edge Drive, Vernon Hills, IL, 60061, US

eg Direction	Indiana Westboun	d				Riverside Northbou					Riversid Southbo					
ime	L	R	U	Арр	Ped*	Т	R	U	App	Ped*	L	т	U	App	Ped*	Int
2021-07-17 7:00AM	0	0	0	0	0	1	0	0	1	0	0	7	0	7	0	
7:15AM	0	0	0	0	2	5	0	0	5	0	0	4	0	4	0	
7:30AM	0	1	0	1	1	4	0	0	4	0	0	2	0	2	0	
7:45AM		0	0	0	2	0	0	0	0	0	0	6	0	6	0	
Hourly Total	0	1	0	1	5	10	0	0	10	0	0	19	. 0	19	. 0	. 3
8:00AM	0	1	0	1	2		1	0	5	0	0	5	0	5	0	1
8:15AM	0	1	0	1	3		0	0	5	0	0	8	0	8	2	1
8:30AM	0	0	0	0	1	4	0	0	4	0	0	3	0	3	0	
8:45AM		1	0	1	0		1	0	8	0	0	8	0	8	0	1
Hourly Total		. 3	0	3	6		2	0	22	0	0	24	0	24	. 2	4
9:00AM		0	0	0	0		0	0	9	0	0	8	0	8	1	1
9:15AM	0	2	0	2	2		0	0	15	2	1	11	0	12	0	2
						_						6	0	7		
9:30AM 9:45AM	2	0	0	4	0		0	0	10 15	0	2		0	16	0	3
	1	3	0		0		1	_		\rightarrow		14				10
Hourly Total	3	5	0	8	2		1	0	49	2	4	39	0	43	1	
10:00AM		0	0	0	0		1	0	13	0	0	11	0	11	0	2
10:15AM		1	0	1	1	8	0	0	8	0	0	19	0	19	0	2
10:30AM	1	0	0	1	2		0	0	7	0	0	12	0	12	0	2
10:45AM	1	0	0	1	0		0	0	15	0	0	15	0	15	0	3
Hourly Total	2	1	0	3	3		1	0	43	0	0	57	0	57	0	10
11:00AM	0	0	0	0	0		0	0	15	0	0	9	0	9	0	2
11:15AM	1	1	0	2	0		0	0	21	0	1	14	0	15	0	3
11:30AM	0	1	0	1	0	25	1	0	26	0	1	14	0	15	0	4
11:45AM	1	1	0	2	0	31	2	0	33	0	2	17	0	19	2	5
Hourly Total	2	3	0	5	0	92	3	0	95	. 0	4	54	. 0	58	2	15
12:00PM	1	1	0	2	3	21	0	0	21	0	0	14	0	14	0	3
12:15PM	3	0	0	3	1	22	2	0	24	0	0	12	0	12	0	3
12:30PM	1	0	0	1	0	12	2	0	14	0	0	18	0	18	0	3
12:45PM	1	1	0	2	2	26	0	0	26	0	0	13	0	13	0	4
Hourly Total	6	2	0	. 8	6	81	4	0	85	. 0	. 0	57	0	57	. 0	15
1:00PM	0	0	0	0	0	19	0	0	19	0	0	13	0	13	0	3
1:15PM	0	4	0	4	0	19	1	0	20	0	0	13	0	13	0	3
1:30PM	1	0	0	1	0	21	0	0	21	0	1	17	0	18	0	4
1:45PM	0	0	0	0	0	16	0	0	16	0	0	13	0	13	0	2
Hourly Total	1	4	0	5	. 0	75	1	0	76	0	1	56	0	57	0	13
2:00PM		1	0	1	0	-	0	0	24	0	0	9	0	9	0	3
2:15PM		1	0	2	0		1	0	19	0	0	14	0	14	0	3
2:30PM		1	0	1	0		0	0	14	0	0	17	0	17	0	3
2:45PM		0	0	3	0		0	0	17	0	1	10	0	11	0	3
Hourly Total	4	3	0	7	0		1	0	74	0	. 1	50	0	51	0	13
Total		22	0	40	22		13	0	454	2	10	356	0	366	5	86
% Approach		55.0%		-		97.1%	2.9%		-		2.7%	97.3%				
% Total	_	2.6%		4.7%		51.3%	1.5%	_	52.8%	-	1.2%	41.4%		42.6%	-	
Lights		22	0	39		436	13	0	449	-	10	352	0	362	-	85
% Lights		100%		97.5%	-	98.9%	100%		98.9%		100%	98.9%		98.9%	-	98.89
Articulated Trucks		0	0	0	-	0	0		0	-	0	1	0	1	-	
% Articulated Trucks	0%	0%		0%	-	0%		0%	0%	-	0%	0.3%		0.3%	-	0.19
Buses and Single-Unit Trucks	1	0	0	1	-	5	0	0	5	-	0	3	0	3	-	
% Buses and Single-Unit Trucks	5.6%	0%	0%	2.5%	_	1.1%	0%	0%	1.1%	-	0%	0.8%	0%	0.8%	-	1.0
Pedestrians	-	-	-	-	19	-	-	-	_	2	-	-		_	5	
% Pedestrians	-	-	-	-	86.4%	-	-	-	-	100%	-	-	-	-	100%	
Bicycles on Crosswalk	+	-	-	-	3	-	-	-	_	0	_	-	-	-	0	
% Bicycles on Crosswalk				_	13.6%	-		_	_	0%			_	_	0%	

Leg	Indiana					Riverside			-		Riverside					
Direction	Westbound					Northbound					Southbound					
Time	L	R	U	Арр	Ped*	T	R	U	Арр	Ped*	L	T	U	Арр	Ped*	Int

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

Riverside Ave / Indiana Ave - TMC

Sat Jul 17, 2021

Midday Peak (WKND) (11:30 AM - 12:30 PM) - Overall Peak Hour All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks, Pedestrians, Bicycles on Crosswalk)

All Movements

ID: 856006, Location: 41.911771, -88.31137



Provided by: Gewalt Hamilton Associates Inc. 625 Forest Edge Drive, Vernon Hills, IL, 60061, US

Leg		Indiana					Riverside					Riverside	2				
Direction		Westboun	ıd				Northbou	nd				Southbou	ınd				
Time		L	R	U	Арр	Ped*	Т	R	U	Арр	Ped*	L	Т	U	Арр	Ped*	Int
	2021-07-17 11:30AM	0	1	0	1	0	25	1	0	26	0	1	14	0	15	0	42
·	11:45AM	1	1	0	2	0	31	2	0	33	0	2	17	0	19	2	54
	12:00PM	1	1	0	2	3	21	0	0	21	0	0	14	0	14	0	37
	12:15PM	3	0	0	3	1	22	2	0	24	0	0	12	0	12	0	39
	Total	5	3	0	8	4	99	5	0	104	0	3	57	0	60	2	172
	% Approach	62.5%	37.5%	0%	-	-	95.2%	4.8%	0%	-	-	5.0%	95.0%	0%	-	-	
	% Total	2.9%	1.7%	0%	4.7%	-	57.6%	2.9%	0%	60.5%	-	1.7%	33.1%	0%	34.9%	-	
	PHF	0.417	0.750	-	0.667	-	0.798	0.625	-	0.788	-	0.375	0.838	-	0.789	-	0.796
	Lights	5	3	0	8	-	98	5	0	103	-	3	56	0	59	-	170
	% Lights	100%	100%	0%	100%	-	99.0%	100%	0%	99.0%	-	100%	98.2%	0%	98.3%	-	98.8%
	Articulated Trucks	0	0	0	0	-	0	0	0	0	-	0	0	0	0	-	C
	% Articulated Trucks	0%	0%	0%	0%	-	0%	0%	0%	0%	-	0%	0%	0%	0%	-	0%
В	uses and Single-Unit Trucks	0	0	0	0	-	1	0	0	1	-	0	1	0	1	-	2
% B	uses and Single-Unit Trucks	0%	0%	0%	0%	-	1.0%	0%	0%	1.0%	-	0%	1.8%	0%	1.7%	-	1.2%
	Pedestrians	-	-	-	-	4	-	-	-	-	0	-		-	-	2	
	% Pedestrians	-	-	-	-	100%	-	-	-	-	-	-	-	-	-	100%	
	Bicycles on Crosswalk	-	-	-	-	0	-	-	-	-	0	-	-	-	-	0	
	% Bicycles on Crosswalk	-	-	-	-	0%	-		-	-	-	-	-	-	-	0%	

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

Thu Jul 15, 2021

Full Length (7 AM-7 PM)
All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks, Pedestrians,

Bicycles on Crosswalk)

All Movements

ID: 856005, Location: 41.911852, -88.310965

GEWALT HAMILTON ASSOCIATES, INC. Provided by: Gewalt Hamilton Associates Inc.

Leg Direction	Indian Eastbo						India						2nd Northbo						2nd						
	+				11	A DI			- D		A	D. Je						D. 14	Southbou			7.1	A	D 14	
Time 2021-07-15 7:00AM	/ L			\)	0	App Ped	+		- K	0		Ped*	L			U	App		L	T	R		App	Ped*	Int
7:15AN	_				0	0 (_		0		1	0	0	0	0	0	0	0	0	0	0	0	0	0	\vdash
7:30AN					0	1 (_		0		1	0	1	1	0	0	2	0		0	0	0	0	0	
7:45AN	_				0	0			0			0	0	1	0	0	1	0	0	3	0	0	3	1	
Hourly Total	_			_	0	2 (_		0		3	1	1	3	0	0	4	0		4	0	0	4	2	1
8:00AN	_	-		_	0	0 (0		2	0	0	1	0	0	1	0	0	0	0	0	0	0	-
8:15AN					0	0 (-				0	0	0	4	0	0	4	0	0	1	0	0	1	0	
8:30AN	+				0	1 (+	5	0		5	0	0	0	0	0	0	0	0	1	0	0	1	0	-
8:45AN					0	2 (1		2	0	0	5	0	0	5	0	0	0		0	0	0	-
Hourly Tota					0	3 (+	8	- 1	_	9	0	0	10	0	0	10	0	0	2	0	0	2	0	-
9:00AN		1	. ()	0	1 (0	2	0		2	0	0	2	0	0	2	0	1	1	0	0	2	1	
9:15AN	1 1) ()	0	1 (0	3	0		3	0	1	1	0	0	2	0	0	1	0	0	1	0	
9:30AN	1 0	- 0) ()	0	0 (0	1	0	0	1	0	0	1	0	0	1	0	0	2	0	0	2	0	-
9:45AN	1 1	0) ()	0	1 (0	1	0	0	1	1	0	3	0	0	3	0	0	2	0	0	2	1	
Hourly Tota	1 2	on all	()	0	3 (0	7	. 0	0	7	1	- 1	7	0	0	8	0	1	6	. 0	0	7	2	
10:00AN	1 0	C	()	0	0 (0	0	2	0	2	0	0	5	0	0	5	0	0	1	0	0	1	1	
10:15AN	1 0	- 1	. 1	l	0	2 (0	1	0	0	1	0	1	1	0	0	2	0	0	3	0	0	3	0	
10:30AN	1 0	0	()	0	0 (0	1	0	0	1	0	0	0	0	0	0	0	1	1	0	0	2	0	
10:45AN	1 0	C	()	0	0 (0	1	0	0	1	0	0	3	0	0	3	0	1	1	0	0	2	0	
Hourly Tota	1 0	. 1	1	l	0	2 (0	3	. 2	0	- 5	0	-1	9	0	0	10	0	2	6	0	0	8	. 1	
11:00AN	1 0	1	()	0	1 (0	5	0	0	5	0	0	3	0	0	3	0	1	1	1	0	3	1	1
11:15AN	1 0	1)	0	1 (0	4	0	0	4	1	0	2	0	0	2	0	0	3	0	0	3	0	1
11:30AN	1 1	1)	0	2 (0	1	1	0	2	0	0	0	1	0	1	0	0	0	0	0	0	1	
11:45AN	1 0	0)	0	0 (0	1	1	0	2	0	0	5	0	0	5	0	1	1	0	0	2	0	
Hourly Tota	1 1	3	0)	0	4 (0	11	2	. 0	13	1	0	10	1	0	11	0	2	5	1.	0	. 8	2	
12:00PN	_				0	3 (-	4	0		4	0	0	4	0	0	4	0	0	0	0	0	0	0	
12:15PN	+				0	0 (-	2	0		2	0	0	6	0	0	6	0	0	1	0	0	1	0	
12:30PN					0	0 (2	0		2	0	0	0	1	0	1	0	1	1	0	0	2	0	
12:45PN	+				0	2 (_	1	0		1	0	0	1	0	0	1	0	0	1		0	2	0	_
Hourly Tota	_			-	0	5 (-	9	- 0		9	0	0	11	1	0	12	0	1	3		0	5	0	_
1:00PN					0	2 (4	0		4	0	0	3	0	0	3	0	0	1		0	3	0	1
1:15PN					0	2 (0	0		0	0	0	1	0	0	1	0	0	1		0	1	0	
1:30PN	_				0	0 0		1	1		2	0	0	0	0	0	0	0	0	2		0	2	0	_
1:45PN					0	1 (-	0	0		0	0	0	3	0	0	3	0	0	1		0	1	2	
Hourly Tota	_				0	5 0	-	5	1	0	6	0	0	7	0	0	7	0	0	5		0	. 7	. 2	- 2
2:00PN	+				0	2 (+	1	0		1	0	1	4	0	0	5	0	1	1		0	2	0	1
2:15PN 2:30PN	+				0	0 0		5	0		5	1	0	2	0	0	2	0	0	5		0	5	0	L.,
2:45PM												1			0	0	2	0	0	2		0	3	0	1
Hourly Tota)	0	2 (8	0		. 15	0	0	11	0	0	12	0	0	10	0	0	12	0	1
3:00PM	-)		1 0	-	2		0	3	2	0	4	0		4	0	0	3	0	^	3	2	1
3:15PM)		2 0	-	5	0		5	0	0	0	0		0	0	0	3	0		3	0	-
3:30PM	_)		3 0	_	3	0		4	1	0	4	0		4	0	1	3	1		5	0	
3:45PN)		1 0		0		0	2	0	0	3	0		3	0	0	4	1		5	0	
Hourly Tota) 114		7 0				0	14	3	0	11	0		11	0	1	13	. 2		16	2	. 4
4:00PM	-)		1 0	_	0	0		0	0	0	3	0		3	0	0	1	0		1	0	_
4:15PN)		1 0	-	2	0		2	0	0	2	0		2	0	1	1	1		3	0	\vdash
4:30PN	_)	_	0 0	_	2	0		3	2	0	2	0		2	0		7	2		9	2	7
4:45PN				<u> </u>		1 0	_	2	0		2	0	0	5	0		5	0	0	1	1		2	0	
Hourly Tota	1 2	1)		3 0	1	6	0		7	2	0	12	0		12	. 0		10	4		15	2	3
5:00PN	1 0	0)		0 0	-	0	0		1	0	0	1	0		1	0	0	1		0	1	0	
5:15PM	$\overline{}$)		0 0	-	2	0		2	0	0	5	0		5	0		4	2		6	0	
5:30PM		1)		1 0	-	0	0		0	0	1	3	0		4	0	0	2	0		2	0	
5:45PM)		2 0	+	1	0		1	0	0	1	0		1	0	0	1	0		1	0	_
Hourly Tota				, i		3 0	ļ	. 3	0		4	0	1	10	. 0		11	0	0	8	2 .		10	0	
6:00PN	+)	_	0 0		2	1		3	1	0	2	0		2	0		0		0	0	0	
6:15PN	1 1	0	_)		1 0	0	3		0	5	0	0	3	0		3	0		4	0		6	1	1

Leg	Indiana	1					Indian	a					2nd						2nd						
Direction	Eastbo	und					Westb	ound					North	oound					Southbo	ound					
Time	L	Т	R	U	App P	ed*	L	Т	R	U	Арр	Ped*	L	Т	R	U	Арр	Ped*	L	Т	R	U	Арр	Ped*	Int
6:30PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	1	0	1	0	0	1	1	3
6:45PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	1	0	0	1	0	3
Hourly Total	1	0	0	0	1	0	0	5	3	0	8	1	0	9	0	0	9	1	2	6	0	0	8	2	26
Total	14	25	1	0	40	0	5	84	11	0	100	11	5	110	2	0	117	1	11	78	13	0	102	15	359
% Approach	35.0%	62.5%	2.5%	0%	-	-	5.0%	84.0%	11.0% 0	%	-	-	4.3%	94.0%	1.7%	0%	-	-	10.8%	76.5%	12.7%	0%	-	-	
% Total	3.9%	7.0%	0.3%	0% 1	1.1%	-	1.4%	23.4%	3.1% 0	% 2	7.9%	-	1.4%	30.6%	0.6%	0% 3	2.6%	-	3.1% 2	21.7%	3.6%	0% 2	28.4%	-	
Lights	13	25	1	0	39	-	5	82	11	0	98	-	5	109	2	0	116	-	11	77	13	0	101	-	354
% Lights	92.9%	100%	100%	0% 9	7.5%	-	100%	97.6%	100% 0	% <u>9</u>	8.0%	-	100%	99.1%	100%	0% 9	9.1%	-	100% 9	98.7%	100%	0% 9	99.0%	-	98.6%
Articulated Trucks	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	(
% Articulated Trucks	0%	0%	0%	0%	0%	-	0%	0%	0% 09	%	0%	-	0%	0%	0%	0%	0%	-	0%	0%	0%	0%	0%	-	0%
Buses and Single-Unit Trucks	1	0	0	0	1	-	0	2	0	0	2	-	0	1	0	0	1	-	0	1	0	0	1	_	5
% Buses and Single-Unit Trucks	7.1%	0%	0% (0%	2.5%	_	0%	2.4%	0% 09	%	2.0%	_	0%	0.9%	0%)%	0.9%	_	0%	1.3%	0%	0%	1.0%	-	1.4%
Pedestrians	-	-	-	-	-	0	-	-	-	-	-	11	-	-	-	-	-	1	_	-	_	-	-	13	
% Pedestrians	-	-	-	-	-	-	-	-	-	-	- 1	00%	-	-	-	-	- 1	00%	-	-	-	_	- 8	6.7%	
Bicycles on Crosswalk	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	_	0	-	-	-	-	-	2	
% Bicycles on Crosswalk	-	-	-	-	-	-	-	-	-	-	-	0%	-	-	-	_	-	0%	-	_	-	_	-]	3.3%	

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

Thu Jul 15, 2021

AM Peak (8:30 AM - 9:30 AM)

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks,

Pedestrians, Bicycles on Crosswalk)

All Movements

ID: 856005, Location: 41.911852, -88.310965



Leg	Indiana	1					Indi	ana					2nd						2nd						
Direction	Eastbo	und					Wes	tbound	l				Northbo	ound					Southbo	ound					
Time	L	Т	R	U	App F	ed*	L	Т	R	U	App P	ed*	L	Т	R	U	App P	ed*	L	Т	R	U	Арр	Ped*	Int
2021-07-15 8:30AM	0	1	0	0	1	0	0	5	0	0	5	0	0	0	0	0	0	0	0	1	0	0	1	0	7
8:45AM	2	0	0	0	2	0	0	1	1	0	2	0	0	5	0	0	5	0	0	0	0	0	0	0	9
9:00AM	0	1	0	0	1	0	0	2	0	0	2	0	0	2	0	0	2	0	1	1	0	0	2	1	7
9:15AM	1	0	0	0	1	0	0	3	0	0	3	0	1	1	0	0	2	0	0	1	0	0	1	0	7
Total	3	2	0	0	5	0	0	11	1	0	12	0	1	8	0	0	9	0	1	3	0	0	4	1	30
% Approach	60.0%	40.0%	0%	0%	-	-	0%	91.7%	8.3%	0%	-	-	11.1% 8	88.9%	0% (0%	-	-	25.0%	75.0%	0%	0%	-	-	
% Total	10.0%	6.7%	0%	0% 1	6.7%	-	0%	36.7%	3.3%	0%	40.0%	-	3.3%	26.7%	0% (0% 3	30.0%	-	3.3%	10.0%	0%	0% 1	13.3%	-	
PHF	0.375	0.500	-	-	0.625	-	-	0.550	0.250	-	0.600	-	0.250	0.400	-	-	0.450	-	0.250	0.750	-	-	0.500	-	0.833
Lights	2	2	0	0	4	-	0	11	1	0	12	-	1	8	0	0	9	-	1	3	0	0	4	-	29
% Lights	66.7%	100%	0%	0% 8	0.0%	-	0%	100%	100%	0%	100%	-	100%	100%	0% (0%	100%	-	100%	100%	0%	0%	100%	-	96.7%
Articulated Trucks	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%
Buses and Single-Unit Trucks		0	0	0	1	-	0	0	0	0	0	-	0	0	0	0	0	_	0	0	0	0	0		1
% Buses and Single-Unit Trucks		0%	0%	0% 2	0.0%	-	0%	0%	0%	0%	0%	-	0%	0%	0% ()%	0%	-	0%	0%	0%	0%	0%	-	3.3%
Pedestrians	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	1	
% Pedestrians	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-]	100%	
Bicycles on Crosswalk	-	-		-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	-	-	-	-	~	-	_	-	-		-	-	-	-	-	-	_	-	0%	

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

Thu Jul 15, 2021

Midday Peak (11 AM - 12 PM)

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks,

Pedestrians, Bicycles on Crosswalk)

All Movements

ID: 856005, Location: 41.911852, -88.310965



Leg	Indiana	1					Indi	ana					2n	d					2nd						
Direction	Eastbo	und					Wes	stbound					No	orthboun	d				Southb	ound					
Time	L	Т	R	U	Арр Е	Ped*	L	T	R	U	Арр	Ped*	Ī	T	R	U	App P	ed*	L	Т	R	U	Арр	Ped*	Int
2021-07-15 11:00AM	0	1	0	0	1	0	0	5	0	0	5	0	1) 3	0	0	3	0	1	1	1	0	3	1	12
11:15AM	0	. 1	0	0	1	0	0	4	0	0	4	1) 2	0	0	2	0	0	3	0	0	3	0	10
11:30AM	1	1	0	0	2	0	0	1	1	0	2	0) 0	1	0	1	0	0	0	0	0	0	1	5
11:45AM	0	0	0	0	0	0	0	1	1	0	2	0) 5	0	0	5	0	1	1	0	0	2	0	9
Total	1	3	0	0	4	0	0	11	2	0	13	1	- () 10	1	0	11	0	2	5	1	0	8	2	36
% Approach	25.0%	75.0%	0%	0%	-	-	0%	84.6%	15.4%	0%	-	-	0%	6 90.9%	9.1%	0%	-	-	25.0%	62.5%	12.5%	0%	-	-	-
% Total	2.8%	8.3%	0%	0% 1	11.1%	-	0%	30.6%	5.6%	0%:	36.1%	-	0%	27.8%	2.8%	0%	30.6%	-	5.6%	13.9%	2.8%	0% :	22.2%	-	-
PHF	0.250	0.750	-	-	0.500	-	-	0.550	0.500	-	0.650	-		- 0.500	0.250	-	0.550	-	0.500	0.417	0.250	-	0.667	-	0.750
Lights	1	3	0	0	4	-	0	9	2	0	11	-	-) 10	1	0	11	-	2	5	1	0	8	-	34
% Lights	100%	100%	0%	0%	100%	-	0%	81.8%	100%	0% 1	34.6%	-	0%	6 100%	100%	0%	100%	-	100%	100%	100%	0%	100%	-	94.4%
Articulated Trucks	0	0	0	0	0	-	0	0	0	0	0	-	1) 0	0	0	0	-	0	0	0	0	0	-	0
% Articulated Trucks	0%	0%	0%	0%	0%	-	0%	0%	0%	0%	0%	-	0%	6 0%	0%	0%	0%	-	0%	0%	0%	0%	0%	-	0%
Buses and Single-Unit Trucks	0	0	0	0	0	_	0	2	0	0	2	105	() 0	0	0	0	_	0	0	0	0	0	-	2
% Buses and Single-Unit Trucks	0%	0%	0% (0%	0%	_	0%	18.2%	0%	0% :	15.4%		0%	6 0%	0%	0%	0%	-	0%	0%	0%	0%	0%	-	5.6%
Pedestrians	-	-	-	-	-	0	-	-	-	-	-	1	Г		-	-	-	0	-	-	-	-	-	2	
% Pedestrians	-	-	-	-	-	-	-	-	-	-	-	100%			-	-	_	-	-	-	-	-	- 1	100%	-
Bicycles on Crosswalk	-	-	-	-	-	0	-	-	-	-	-	0			-	~	-	0	-	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	-	-	-	-	-	-	0%	Г		-	-	-	-	-	-	-	-	-	0%	-

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

Thu Jul 15, 2021

Forced Peak (4:30 PM - 5:30 PM)

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks, Pedestrians, Bicycles on Crosswalk)

All Movements

ID: 856005, Location: 41.911852, -88.310965



Leg	Indian	a					Indiana	3					2nc	1					2nd						
Direction	Eastbo	ound					Westbo	ound					No	rthboun	d				Sou	thboun	d				
Time	L	Т	R	U	App P	ed*	L	Т	R	U	App	Ped*	L	Т	R	U	App F	ed*	L	Т	R	U	Арр	Ped*	Int
2021-07-15 4:30PM	0	0	0	0	0	0	1	2	0	0	3	2	0	2	0	0	2	0	0	7	2	0	9	2	14
4:45PM	1	0	0	0	1	0	0	2	0	0	2	0	0	5	0	0	5	0	0	1	1	0	2	0	10
5:00PM	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	;
5:15PM	0	0	0	0	0	0	0	2	0	0	2	0	0	5	0	0	5	0	0	4	2	0	6	0	1:
Total	1	0	0	0	1	0	2	6	0	0	8	2	0	13	0	0	13	0	0	13	5	0	18	2	4
% Approach	100%	0%	0% (0%	-	-	25.0%	75.0%	0% ()%	-	-	0%	100%	0%	0%	-	-	0%	72.2%	27.8%	0%	-	-	
% Total	2.5%	0%	0% (0%	2.5%	-	5.0%	15.0%	0% ()%:	20.0%	_	0%	32.5%	0%	0%:	32.5%	-	0%	32.5%	12.5%	0% 4	15.0%	-	
PHF	0.250	-	-	- (0.250	-	0.500	0.750	-	-	0.667	-	٦-	0.650	-	-	0.650	-	-	0.464	0.625	-	0.500	-	0.71
Lights	1	0	0	0	1	-	2	6	0	0	8	-	0	13	0	0	13	-	0	13	5	0	18	-	4
% Lights	100%	0%	0% (0% :	100%	-	100%	100%	0% ()%	100%	-	0%	100%	0%	0%	100%	-	0%	100%	100%	0%	100%	-	100%
Articulated Trucks	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	(
% Articulated Trucks	0%	0%	0% ()%	0%	_	0%	0%	0% ()%	0%	-	0%	0%	0%	0%	0%	-	0%	0%	0%	0%	0%	-	09
Buses and Single-Unit Trucks	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	(
% Buses and Single-Unit Trucks		0%	0% ()%	0%	-	0%	0%	0% ()%	0%	_	0%	0%	0%	0%	0%	-	0%	0%	0% (0%	0%	-	0%
Pedestrians	-	-	-	-	-	0	-	-	-	-	-	2	-	-	-	-	-	0	-	-	-	-	-	2	
% Pedestrians	_		-	-	-	-	-	-	-	-	-	100%	-	-	-	-	-	-	-	-	-	-	- 1	00%	
Bicycles on Crosswalk	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	-	-	-	-	-	-	0%	-	_	-	-	-	-	-	-	-	-	-	0%	

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

Indiana Ave / 2nd Ave - TMC

Sat Jul 17, 2021

Full Length (7 AM-3 PM)

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks, Pedestrians, Bicycles on Crosswalk)

All Movements

ID: 856007, Location: 41.91185, -88.31097



Leg Direction	Indiana Eastbou					Indiana Westbo	und				- 1	2nd Northbo	und				2nd Southb	ound					
Time	L	Т	R	U	App Ped*	L	Т	R	J A	p Ped	*	L	Т	R	U	App Ped*	L	T	R	U	Арр І	Ped*	Int
2021-07-17 7:00AM	0 1	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	
7:15AM	1 0	0	0	0	0 0	0	0	0	0	0	0	0	1	0	0	1 0	0	0	0	0	0	0	
7:30AM	0 1	0	0	0	0 0	0	1	0	0	1	2	0	0	0	0	0 0	0	0	0	0	0	0	
7:45AN	1 0	0	0	0	0 0	0	0	0	0	0	0	0	1	0	0	1 0	0	0	0	0	0	0	
Hourly Tota	1 0	0	. 0	0	0 0	. 0	. 1	0	0	1	2	0	. 2	0	0	2 0	0	0	0	0	0	0	A.
8:00AM	1	0	0	0	1 0	0	1	0	0	1	1	0	0	0	0	0 0	0	1	0	0	1	0	
8:15AM	0	0	0	0	0 0	0	0	1	0	1	0	1	1	0	0	2 0	0	0	0	0	0	1	
8:30AM	0	0	0	0	0 0	0	0	0	0	0	1	0	0	0	0	0 0	0	0	0	0	0	1	
8:45AM	1 1	0	0	0	1 0	0	1	0	0	1	1	0	1	0	0	1 0	0	0	0	0	0	0	
Hourly Tota	1 2	0	0	0	2 0	0	. 2	1	0	3	3	1	2	0	0	3 0	0	1	0	. 0	1	. 2	1111
9:00AM	0	0	0	0	0 0	0	0	1	0	1	0	0	2	0	0	2 0	0	1	0	0	1	0	
9:15AM	0 1	1	0	0	1 2	0	2	0	0	2	0	0	1	0	0	1 2	0	0	0	0	0	0	
9:30AM	0	1	0	0	1 0	0	3	0	0	3	1	0	2	0	0	2 0	_	2	0	0	3	0	
9:45AM	0	1	1	0	2 1	0	3	0	0	3	0	0	3	0	0	3 0	0	0	1	0	1	1	
Hourly Tota	_	3			4 3	_	8				1	0	. 8	0	0	8 2		3	1	0	5	. 1	11.
10:00AM	-	1			2 0		1				0	0	3	0	0	3 0	_	0	0		0	0	
10:15AM	0	0		0	0 2		0				0	0	1	0	0	1 0	0	2	0	0	2	0	
10:30AM		0		0	0 2		1				1	0	0	0	0	0 2	-	4		0	4	0	
10:45AM		0		0	0 0		1				1	0	7	0	0	7 0		2	0	0	2	0	
Hourly Tota	+	1		0	2 4		3				2	0	11	0	0	11 2	-	8	0	0	8	0	
11:00AM	_	0			0 0		0				0	0	0	0	0	0 0		1	0	0	2	0	-
11:15AM	+	1		0	1 0		2				0	0	2	1	0	3 0	-	1	0	0	2	0	
11:30AM	+	1	0	0	2 0	-	1				1	0	2	0	0	2 0	_	3	0	0	3	0	$\overline{}$
11:45AM	-	2		0	3 0	+	1				0	0	1		0	1 0	-	0	0	0	0	0	_
Hourly Tota	-	. 4	0	_	6 0		4				1	0	5	1		6 0	_	5	0	0	7	0	
12:00PM	-	0			0 0	-	2				0	0	6	0	0	6 0		3	0		3	0	
12:15PM	+	1	0	0	2 0	_	2				3	1	4	1	0	6 0	-	1	0	0	1	0	
12:30PM	-	0			2 0	_	1				0	0	5	0	0	5 0	-	3	0		3	1	-
12:45PM	1	0		0	0 0	-	1				0	0	3	0	0	3 0		1	1		2	0	_
Hourly Tota	-	. 1	0	0	4 0		6				3	1	18	1	0	20 0		8	1	0	9	1	
1:00PM	_	0		0	0 0		0			7	2	0	4	0	0	4 0		1	1	0	2	0	
1:15PM	+	0			1 . 0		3				2	0	1	0	0	1 0		3	0	0	3	0	
1:30PM	-	0		0	1 0		0				0	0	1	0	0	1 0		3	1		4	0	
1:45PM	_	0		0	0 0	_	0				0	0	3	0	0	3 0	-	0	0	0	0	1	
	_	0	0	0	2 0		3				4	0	9	0	0	9 0	_	7	2	0	9	1	
Hourly Tota 2:00PM	_	0	0	0	0 0		0				0	0	0	0	0	0 0		6	1	0	7	0	-
	_	0	0	0		-	2				0	0					_	6	0	0	6	0	
2:15PM	_	0	0	0	1 0 0 0	_	2				1	0	1	0	0	1 0	-	0	0	0	0	0	
2:30PM 2:45PM		0									1		2	0		1 0 2 0	 						
					1 0 2 0		I			1	1	0		0	0		_	12	1	0	1	0	
Hourly Tota		0		0			. 5			6	L.	0	4	0		4 0		12		0	14		
Tota		9		0	22 7		32			0 1	7	2	59	2		63 4	_	44		0	53	5	1
% Approach	_							7.5% 09		-	\rightarrow	3.2% 93					5.7% 8				-	-	
% Total	+		0.6% (0% 1		_		1.7% 09			-	1.1% 33			_				3.4%				_
Lights		9		0	22 -	5	32			0	-	2	58	2		62 -	3	44		0	52		1
% Lights	100%	100%			100% -	100%	100%	100% 09		6	-	100% 98	3.3%			8.4% -	100%	100%	83.3%		8.1%	-	98.
Articulated Trucks	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% 09	6 09	16	-	0%	0%	0% ()%	0% -	0%	0%	0%	0%	0%	-	
Buses and Single-Unit																							
Trucks		0	0	0	0 -	0	0	0)	0	-	0	1	0	0	1 -	0	0	1	0	1		_
% Buses and Single-Unit		007	004 4	00/	004	00/	An/	00/ 00	٠ ~	v.		00/ 4	1 70/	00/ 1	10/	1 60/	007	OD/	16 70/	00/	1 00/	ļ	4
Padastrians	_	0%			0% -	0%	0%				-	0% 1				1.6% -	0%		16.7%				1.
Pedestrians		-		-	- 7		-			- 1	\rightarrow	-	-		-	- 4	-				-	5	_
% Pedestrians				-	- 100%			-		- 1009	\rightarrow	-	-		_	- 100%	-					00%	-
Bicycles on Crosswalk	_			-	- 0			-			0	-			-	- 0	-			-	-	0	_
Bicycles on Crosswalk	1 -	_	-	-	- 0%	- 1	-	-	-	- 09	%	-	-	-	-	- 0%	-	-	_	-	-	0%	i

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

Indiana Ave / 2nd Ave - TMC

Sat Jul 17, 2021

Forced Peak (11:30 AM - 12:30 PM)

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks,

Pedestrians, Bicycles on Crosswalk)

All Movements

ID: 856007, Location: 41.91185, -88.31097



Leg	Indiana	1					Indian	a					2nd						2nd						
Direction	Eastbo	und					Westb	ound					North	bound					Sou	thbound	l				
Time	L	7	R	U	Арр	Ped*	L	Т	R	U	Арр	Ped*	L	Т	R	U	App P	ed*	L	Т	R	U	App Po	ed*	lnt
2021-07-17 11:30AM	1	1	0	0	2	0	0	1	0	0	1	1	0	2	0	0	2	0	0	3	0	0	3	0	ε
11:45AM	1	2	2 0	0	3	0	0	1	1	0	2	0	0	1	0	0	1	0	0	0	0	0	0	0	€
12:00PM	0	() (0	0	0	2	2	0	0	4	0	0	6	0	0	6	0	0	3	0	0	3	0	13
12:15PM	1	1	. 0	0	2	0	0	2	0	0	2	3	1	4	1	0	6	0	0	1	0	0	1	0	11
Total	3	4	l 0	0	7	0	2	6	1	0	9	4	1	13	1	0	15	0	0	7	0	0	7	0	38
% Approach	42.9%	57.1%	0%	0%	-	-	22.2%	66.7%	11.1%	0%	-	-	6.7%	86.7%	6.7%	0%	-	-	0%	100%)% ()%	-	-	
% Total	7.9%	10.5%	0%	0%	18.4%	-	5.3%	15.8%	2.6%	0% :	23.7%	-	2.6%	34.2%	2.6%	0% 3	39.5%	-	0%	18.4%)% ()% 1	18.4%	-	
PHF	0.750	0.500		-	0.583	-	0.250	0.750	0.250	-	0.563	-	0.250	0.542	0.250	-	0.625	-	-	0.583	_	-	0.583	-	0.731
Lights	3	4	l 0	0	7	-	2	6	1	0	9	-	1	13	1	0	15	-	0	7	0	0	7	-	38
% Lights	100%	100%	0%	0%	100%	-	100%	100%	100%	0%	100%	-	100%	100%	100%	0%	100%	-	0%	100%)% ()%	100%	-	100%
Articulated Trucks	0	(0	0	0	_	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	C
% Articulated Trucks	0%	0%	5 0%	0%	0%	_	0%	0%	0%	0%	0%	-	0%	0%	0%	0%	0%	-	0%	0%)%()%	0%	-	0%
Buses and Single-Unit Trucks	0	C) (0	0	_	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0		C
% Buses and Single-Unit Trucks	0%	0%	5 0%	0%	0%	_	0%	0%	0%	0%	0%	-	0%	0%	0%	0%	0%	-	0%	0%	0% ()%	0%	-	0%
Pedestrians	-		-	-	-	0	-	-	-	-	-	4	-	-	-	-	-	0	-	-	-	-	-	0	
% Pedestrians	-			-	-	-	-	-	-	-	- 1	00%	-	_	_	-	-	-	-	-	-	-	-	-	
Bicycles on Crosswalk	-			-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	_	-	-	-	_	0	
% Bicycles on Crosswalk	-				-	-	-	_	-	-	-	0%	-	-	-	-	-	-	-	-	_	-	-	-	

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn



Appendix B

IDOT Traffic Count Summary





Volume Count Report

LOCATION IN	О
Location ID	045 3790
Туре	LINK
Fnct'l Class	5
Located On	1ST AVE
From Road	Main St
To Road	5th Ave
Direction	2-WAY
County	Kane
Community	ST CHARLES
MPO ID	
HPMS ID	
Agency	Illinois DOT

COUNT DATA IN	0
Count Status	Accepted
Start Date	Mon 6/25/2018
End Date	Tue 6/26/2018
Start Time	12:00:00 PM
End Time	12:00:00 PM
Direction	2-WAY
Notes	
Station	1ST AVE
Study	
Speed Limit	
Description	
Sensor Type	
Source	CombineVolumeCountsIncremental
Latitude,Longitude	

INTERVAL:60-N	IN
	Hourly
Time	Count
0:00-1:00	9
1:00-2:00	3
2:00-3:00	4
3:00-4:00	0
4:00-5:00	2
5:00-6:00	20
6:00-7:00	59
7:00-8:00	121
8:00-9:00	127
9:00-10:00	90
10:00-11:00	87
11:00-12:00 📵	100
12:00-13:00	151
13:00-14:00	142
14:00-15:00	142
15:00-16:00	167
16:00-17:00	198
17:00-18:00	198
18:00-19:00	135
19:00-20:00	76
20:00-21:00	71
21:00-22:00	65
22:00-23:00	23
23:00-24:00	16
Total	2,006
AM Peak	08:00-09:00 127
PM Peak	16:00-17:00 198





Volume Count Report

LOCATION IN	-0
Location ID	045 3590
Туре	LINK
Fnct'l Class	5
Located On	ILLINOIS AVE
From Road	7TH ST
To Road	7TH AVE
Direction	2-WAY
County	Kane
Community	ST CHARLES
MPO ID	
HPMS ID	
Agency	Illinois DOT

COUNT DATA INFO	
Count Status	Accepted
Start Date	Thu 7/19/2018
End Date	Fri 7/20/2018
Start Time	12:00:00 AM
End Time	12:00:00 AM
Direction	2-WAY
Notes	
Station	ILLINOIS AVE
Study	
Speed Limit	
Description	
Sensor Type	
Source	TcdsBinToVol
Latitude,Longitude	

INTERVAL:60-N	IIN
	Hourly
Time	Count
0:00-1:00	9
1:00-2:00	4
2:00-3:00	5
3:00-4:00	0
4:00-5:00	2
5:00-6:00	16
6:00-7:00	80
7:00-8:00	219
8:00-9:00	270
9:00-10:00	163
10:00-11:00	212
11:00-12:00	259
12:00-13:00	239
13:00-14:00	266
14:00-15:00	256
15:00-16:00	308
16:00-17:00	369
17:00-18:00	353
18:00-19:00	243
19:00-20:00	155
20:00-21:00	84
21:00-22:00	55
22:00-23:00	27
23:00-24:00	11
Total	3,605
AM Peak	08:00-09:00
AlliFeak	270
PM Peak	16:00-17:00 369





Volume Count Report

LOCATION IN	0
Location ID	045 3080
Туре	LINK
Fnct'l Class	7
Located On	3RD AVE
From Road	WALNUT AVE
To Road	ILLINOIS AVE
Direction	2-WAY
County	Kane
Community	ST CHARLES
MPO ID	
HPMS ID	
Agency	Illinois DOT

COUNT DATA IN	=O
Count Status	Accepted
Start Date	Tue 6/26/2018
End Date	Wed 6/27/2018
Start Time	2:00:00 PM
End Time	2:00:00 PM
Direction	2-WAY
Notes	
Station	3RD AVE
Study	
Speed Limit	
Description	
Sensor Type	
Source	CombineVolumeCountsIncremental
Latitude,Longitude	

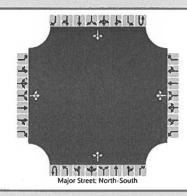
INTERVAL:60-W	IIN
Time	Hourly Count
0:00-1:00	0
1:00-2:00	0
2:00-3:00	0
3:00-4:00	0
4:00-5:00	2
5:00-6:00	9
6:00-7:00	27
7:00-8:00	31
8:00-9:00	49
9:00-10:00	25
10:00-11:00	22
11:00-12:00	29
12:00-13:00	30
13:00-14:00	37
14:00-15:00	32
15:00-16:00	46
16:00-17:00	41
17:00-18:00	29
18:00-19:00	31
19:00-20:00	27
20:00-21:00	27
21:00-22:00	15
22:00-23:00	11
23:00-24:00	7
Total	527
AM Peak	08:00-09:00 49
PM Peak	15:00-16:00 46



Appendix C

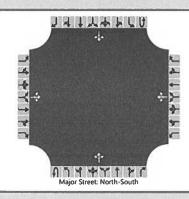
Existing Capacity Analysis Worksheets

General Information		Site Information	
Analyst	LMM	Intersection	2nd Ave / Indiana Ave
Agency/Co.	BLA	Jurisdiction	ADD AND IN THE PROPERTY.
Date Performed	8/2/2021	East/West Street	Indiana Ave
Analysis Year	2021	North/South Street	2nd Ave
Time Analyzed	Weekday AM	Peak Hour Factor	0.83
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description		X C = 3.01.11	



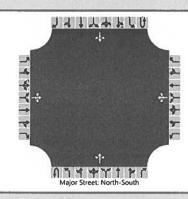
Vehicle Volumes and Ad	justme	nts														
Approach		Eastl	ound			West	bound			North	bound			South	bound	
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	1	0	0	0	1	0	0	0	1	0
Configuration			LTR				LTR				LTR				LTR	
Volume (veh/h)		5	3	0		0	17	2		2	12	0		2	5	0
Percent Heavy Vehicles (%)		33	0	0		0	0	0		0				0		
Proportion Time Blocked		live!					1									
Percent Grade (%)			0				0					ACTION V				
Right Turn Channelized		36=300, 2×10====================================														
Median Type Storage		*		Undiv	/ided											
Critical and Follow-up H	eadwa	ys				IN W.			No.							
Base Critical Headway (sec)	T	7.1	6.5	6.2		7.1	6.5	6.2		4.1				4.1		
Critical Headway (sec)		7.43	6.50	6.20		7.10	6.50	6.20		4.10				4.10		
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2				2.2		
Follow-Up Headway (sec)		3.80	4.00	3.30		3.50	4.00	3.30		2.20				2.20	VIII E	
Delay, Queue Length, an	d Leve	of S	ervice							The same						en sa
Flow Rate, v (veh/h)	1		10				23			2				2		
Capacity, c (veh/h)			867				882			1628	fine 1			1617		
v/c Ratio			0.01				0.03			0.00				0.00		
95% Queue Length, Q ₉₅ (veh)			0.0				0.1			0.0			100	0.0		
Control Delay (s/veh)			9.2				9.2			7.2				7.2		
Level of Service (LOS)			Α				Α			А			and I	Α		
Approach Delay (s/veh)	9.2				9.2				1.0				2.1			
Approach LOS	To the	Maria I	A	11111			A		14, 14,	OL, II	Way 18					

HCS7 Two-Way Stop-Control Report										
General Information Site Information										
Analyst	LMM	Intersection	2nd Ave / Indiana Ave							
Agency/Co.	BLA	Jurisdiction								
Date Performed	8/2/2021	East/West Street	Indiana Ave							
Analysis Year	2021	North/South Street	2nd Ave							
Time Analyzed	Weekday PM	Peak Hour Factor	0.71							
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25							
Project Description			2-5-4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1							



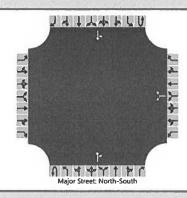
Vehicle Volumes and Adj	justme	nts														
Approach	T	Eastb	ound			West	bound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	T	R	U	L	T	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	1	0	0	0	1	0	0	0	1	0
Configuration			LTR				LTR				LTR				LTR	
Volume (veh/h)		1	0	0		2	8	0		0	14	0		0	14	5
Percent Heavy Vehicles (%)		0	0	0		0	0	0		0				0		
Proportion Time Blocked										CA NE		100				
Percent Grade (%)	T		0			-	0									
Right Turn Channelized						· Yill	14.3					TELEVE	38.09		COSCILLULAY	Và.
Median Type Storage				Undiv	vided					U S						
Critical and Follow-up H	eadway	ys					H (65)									
Base Critical Headway (sec)		7.1	6.5	6.2		7.1	6.5	6.2		4.1				4.1		
Critical Headway (sec)	182 118	7.10	6.50	6.20		7.10	6.50	6.20		4.10		, due 1	1	4.10	1200	
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2				2.2		
Follow-Up Headway (sec)		3.50	4.00	3.30		3.50	4.00	3.30		2.20				2.20		
Delay, Queue Length, an	d Level	of Se	ervice				0									180.2
Flow Rate, v (veh/h)			1				14			0				0		
Capacity, c (veh/h)			947		DEL		870			1600			100	1610		
v/c Ratio			0.00				0.02			0.00				0.00		
95% Queue Length, Q ₉₅ (veh)			0.0				0.0			0.0			Maria I	0.0		
Control Delay (s/veh)			8.8				9.2			7.2				7.2		
Level of Service (LOS)			A		2		А			А				Α		
Approach Delay (s/veh)		8	.8			9.2				0.0				0.0		
Approach LOS	100		A				A	115 07	C-32		W.T.	- 10				

General Information		Site Information	
general information		Site information	
Analyst	LMM	Intersection	2nd Ave / Indiana Ave
Agency/Co.	BLA	Jurisdiction	
Date Performed	8/2/2021	East/West Street	Indiana Ave
Analysis Year	2021	North/South Street	2nd Ave
Time Analyzed	Saturday MID	Peak Hour Factor	0.73
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description		Control of the Contro	



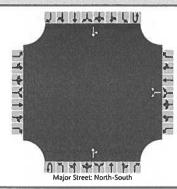
Approach		Eastb	ound			Westl	oound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	T	R	U	L	T	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	1	0	0	0	1	0	0	0	1	0
Configuration			LTR				LTR				LTR				LTR	
Volume (veh/h)		8	5	0		6	11	2		2	25	2		0	11	0
Percent Heavy Vehicles (%)		0	0	0		0	0	0		0				0		100000
Proportion Time Blocked		1				4										
Percent Grade (%)		()			(-				Annual Control	
Right Turn Channelized				4.36							La u			TID: WO		
Median Type Storage		Undivided														
Critical and Follow-up H	eadway	S														
Base Critical Headway (sec)		7.1	6.5	6.2		7.1	6.5	6.2		4.1				4.1		
Critical Headway (sec)		7.10	6.50	6.20		7.10	6.50	6.20		4.10			Jan Sur	4.10		
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2				2.2		
Follow-Up Headway (sec)		3.50	4.00	3.30		3.50	4.00	3.30		2.20				2.20		
Delay, Queue Length, an	d Level	of Se	ervice										VA USAN			
Flow Rate, v (veh/h)			18				26			3				0		
Capacity, c (veh/h)			884				885			1616		Liter		1587		
v/c Ratio			0.02				0.03			0.00				0.00		
95% Queue Length, Q ₉₅ (veh)			0.1				0.1			0.0				0.0		
Control Delay (s/veh)			9.2				9.2			7.2				7.3		
Level of Service (LOS)			Α				Α	100	Jal	А				Α		
Approach Delay (s/veh)		9	2		9.2				0.5				0.0			
Approach LOS		-	1			-	4									

HCS7 Two-Way Stop-Control Report										
General Information Site Information										
Analyst	LMM	Intersection								
Agency/Co.	BLA	Jurisdiction								
Date Performed	8/2/2021	East/West Street	Indiana Ave							
Analysis Year	2021	North/South Street	Riverside Ave							
Time Analyzed	Weekday AM	Peak Hour Factor	0.83							
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25							
Project Description										



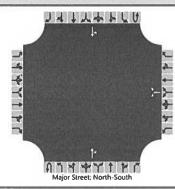
Vehicle Volumes and Ad	justme	nts														
Approach	T	Eastb	ound	100		West	bound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	T	R	U	L	Т	R	U	L	T	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	0	0		0	1	0	0	0	1	0	0	0	1	0
Configuration							LR					TR		LT		
Volume (veh/h)	1416	1 × 1				13		6			64	6		2	56	
Percent Heavy Vehicles (%)						0		0						0		
Proportion Time Blocked				112							100		44			
Percent Grade (%)							0				A					
Right Turn Channelized	11800							1/21/1							er Pou	
Median Type Storage	T			Undi	vided								-			
Critical and Follow-up H	eadwa	ys				12.0										
Base Critical Headway (sec)	T					7.1		6.2						4.1		
Critical Headway (sec)		11,111			L. L.	6.40		6.20	A MIT					4.10		
Base Follow-Up Headway (sec)						3.5		3.3						2.2		
Follow-Up Headway (sec)					1	3.50		3.30		1/1				2.20		lan.
Delay, Queue Length, an	d Leve	of Se	ervice								No. 3					
Flow Rate, v (veh/h)							23					Γ		2		
Capacity, c (veh/h)				11818			882						DX YX	1525		
v/c Ratio							0.03							0.00		
95% Queue Length, Q ₉₅ (veh)					100	211	0.1	TON						0.0		4
Control Delay (s/veh)	T						9.2							7.4		
Level of Service (LOS)							Α							А		
Approach Delay (s/veh)					9.2				,		3			0	.3	
Approach LOS							Ą	gy(file)		W. ve'			ST(SIL			(TIL)

	HCS7 Two-	-Way Stop-Control Report	
General Information		Site Information	
Analyst	LMM	Intersection	
Agency/Co.	BLA	Jurisdiction	
Date Performed	8/2/2021	East/West Street	Indiana Ave
Analysis Year	2021	North/South Street	Riverside Ave
Time Analyzed	Weekday PM	Peak Hour Factor	0.83
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description			
	The state of the s		



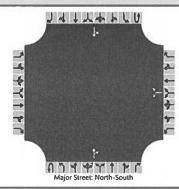
Approach		Eastb	ound			West	bound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	T	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	0	0		0	1	0	0	0	1	0	0	0	1	0
Configuration	T						LR					TR		LT		
Volume (veh/h)		4				1	TO WITH	12		1	110	1		0	75	- 11
Percent Heavy Vehicles (%)						0		0						0		
Proportion Time Blocked		MAIN					THE							111/4	LL VO	
Percent Grade (%)		0														
Right Turn Channelized		T P X				754	THE THE		N Permi	W III		No said		100° W		
Median Type Storage				Undi	vided											
Critical and Follow-up H	eadway	ys														
Base Critical Headway (sec)						7.1		6.2						4.1		
Critical Headway (sec)						6.40	THE STATE OF	6.20	GIIIYII					4.10		
Base Follow-Up Headway (sec)						3.5		3.3						2.2		
Follow-Up Headway (sec)		Tile of				3.50		3.30						2.20		
Delay, Queue Length, an	d Level	of Se	ervice				Samue									
Flow Rate, v (veh/h)	T						16							0		
Capacity, c (veh/h)		3.0 1			A 185		908		Daniel B					1463		
v/c Ratio		-					0.02							0.00		
95% Queue Length, Q ₉₅ (veh)							0.1	0.161		1841781				0.0		
Control Delay (s/veh)							9.0							7.5		
Level of Service (LOS)		, Synca				T TOTAL	Α				10 10			Α	SE HE !	114
Approach Delay (s/veh)				9.0								0	.0	harmon		
Approach LOS	THE PROPERTY OF THE PARTY OF THE PARTY OF				Α				WI				TEN	T. DE		

HCS7 Two-Way Stop-Control Report										
General Information		Site Information								
Analyst	LMM	Intersection	T							
Agency/Co.	BLA	Jurisdiction								
Date Performed	8/2/2021	East/West Street	Indiana Ave							
Analysis Year	2021	North/South Street	Riverside Ave							
Time Analyzed	Saturday MID	Peak Hour Factor	0.80							
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25							
Project Description										



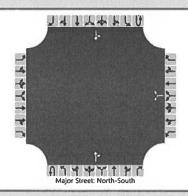
Approach		Eastb	ound			Westl	oound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	T	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	0	0		0	1	0	0	0	1	0	0	0	1	0
Configuration							LR					TR		LT		
Volume (veh/h)	100					8		5	11 13		153	8		5	88	
Percent Heavy Vehicles (%)						0		0						0		
Proportion Time Blocked										11118		de doji				
Percent Grade (%)						(0									
Right Turn Channelized		K m			1960	TO WAR	- Indi		JI i y	TLATE		124 - 11				
Median Type Storage				Undi	vided											
Critical and Follow-up H	leadway	ys														
Base Critical Headway (sec)						7.1		6.2						4.1		
Critical Headway (sec)						6.40		6.20		day				4.10		
Base Follow-Up Headway (sec)						3.5		3.3						2.2		
Follow-Up Headway (sec)			No N		UE III	3.50	TX III	3.30						2.20		
Delay, Queue Length, an	d Level	of Se	rvice								A Dit					
Flow Rate, v (veh/h)							16							6		
Capacity, c (veh/h)							733							1383		
v/c Ratio							0.02							0.00		
95% Queue Length, Q ₉₅ (veh)			o will p	1, 9			0.1				74.00			0.0		
Control Delay (s/veh)							10.0							7.6		
Level of Service (LOS)				1/4			В						De la	Α		Mil
Approach Delay (s/veh)				10.0						a	Lanca de la composição de		0	.4		
Approach LOS					В				7/1		A THE REAL PROPERTY.	18.1				

HCS7 Two-Way Stop-Control Report									
General Information Site Information									
Analyst	LMM	Intersection	Riverside/2nd						
Agency/Co.	BLA	Jurisdiction							
Date Performed	4/11/22	East/West Street	2nd Ave						
Analysis Year	2021	North/South Street	Riverside Ave						
Time Analyzed	Weekday AM	Peak Hour Factor	0.83						
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25						
Project Description									



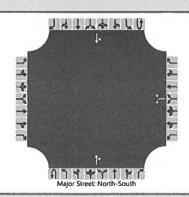
Approach		Eastb	ound			West	bound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	T	R	U	L	Т	R	U	L	T	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	0	0		0	1	0	0	0	1	0	0	0	1	0
Configuration							LR					TR		LT		
Volume (veh/h)						5	yika	0		V 285	70	14		0	69	
Percent Heavy Vehicles (%)						0		0		-				0		
Proportion Time Blocked										1.6.1		o i wali				
Percent Grade (%)						0										
Right Turn Channelized				4190		T-TALL	S had	a le voi	1			200				
Median Type Storage				Undi	vided								A			
Critical and Follow-up H	eadway	ys														
Base Critical Headway (sec)						7.1		6.2						4.1		
Critical Headway (sec)				THE		6.40		6.20		-	6 711			4.10		
Base Follow-Up Headway (sec)						3.5		3.3						2.2		
Follow-Up Headway (sec)				Marie		3.50		3.30					mal	2.20	-119	
Delay, Queue Length, an	d Level	of Se	ervice													
Flow Rate, v (veh/h)							6							0		
Capacity, c (veh/h)				134			819					100		1504	11	
v/c Ratio							0.01							0.00		
95% Queue Length, Q ₉₅ (veh)							0.0		THE RES					0.0		
Control Delay (s/veh)							9.4							7.4		
Level of Service (LOS)			J. M				A							Α		
Approach Delay (s/veh)				9.4									0	.0		
Approach LOS					A								San			

HCS7 Two-Way Stop-Control Report										
General Information Site Information										
Analyst	LMM	Intersection	Riverside/2nd							
Agency/Co.	BLA	Jurisdiction								
Date Performed	4/11/22	East/West Street	2nd Ave							
Analysis Year	2021	North/South Street	Riverside Ave							
Time Analyzed	Weekday PM	Peak Hour Factor	0.83							
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25							
Project Description	1									



Vehicle Volumes and Adj	justme	nts														
Approach		Eastb	ound			West	bound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	T	R	U	L	Т	R
Priority		10	11	12		7	8	9	1Ü	1	2	3	4U	4	5	6
Number of Lanes		0	0	0		0	1	0	0	0	1	0	0	0	1	0
Configuration							LR					TR		LT		
Volume (veh/h)						16		0			111	14		0	76	
Percent Heavy Vehicles (%)						0		0						0		
Proportion Time Blocked			1,7,1											W. 1		
Percent Grade (%)		0												A		
Right Turn Channelized		100			120		To be		DE NY					TEIL		2.1
Median Type Storage				Undi	vided											
Critical and Follow-up H	eadway	ys					13)		VIVO			Type 2				
Base Critical Headway (sec)						7.1		6.2						4.1		
Critical Headway (sec)						6.40		6.20		lu inc			1	4.10		
Base Follow-Up Headway (sec)						3.5		3.3						2.2		
Follow-Up Headway (sec)	- Man			drate	To a	3.50		3.30				14.41		2.20	Ol of	
Delay, Queue Length, an	d Level	of Se	ervice													
Flow Rate, v (veh/h)	T						19							0		
Capacity, c (veh/h)					11.7		759							1443		
v/c Ratio		-					0.03							0.00		
95% Queue Length, Q ₉₅ (veh)							0.1	Pine					16 00	0.0	1, 26	
Control Delay (s/veh)							9.9							7.5		
Level of Service (LOS)							Α				Duni			Α	Single!	
Approach Delay (s/veh)	9.9										0	.0				
Approach LOS	A							Win		The line						

HCS7 Two-Way Stop-Control Report									
General Information Site Information									
Analyst	LMM	Intersection	Riverside/2nd						
Agency/Co.	BLA	Jurisdiction							
Date Performed	4/11/22	East/West Street	2nd Ave						
Analysis Year	2021	North/South Street	Riverside Ave						
Time Analyzed	Saturday MID	Peak Hour Factor	0.80						
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25						
Project Description									



Vehicl	e Vo	lumes	and	Adj	ustments
--------	------	-------	-----	-----	----------

Approach		Eastb	ound			Westbound				North	bound		Southbound			
Movement	υ	L	T	R	U	L	Т	R	U	L	T	R	U	L	T	R
Priority		10	11	12		7	8	9	10	1	2	3	4U	4	5	6
Number of Lanes		0	0	0		0	1	0	0	0	1	0	0	0	1	0
Configuration							LR					TR		LT		
Volume (veh/h)						17		0		in Lym	161	29		0	96	
Percent Heavy Vehicles (%)						0		0						0		
Proportion Time Blocked																
Percent Grade (%)					0									nse pr		
Right Turn Channelized																, produce
Median Type Storage		7.5		Undi	Undivided											
Critical and Follow-up H	eadway	ys														
Base Critical Headway (sec)						7.1		6.2						4.1		
Critical Headway (sec)						6.40		6.20			Miles			4.10		
Base Follow-Up Headway (sec)						3.5		3.3						2.2		
Follow-Up Headway (sec)						3.50		3.30			Na. Art			2.20		
Delay, Queue Length, an	d Level	of Se	ervice													
Flow Rate, v (veh/h)	T						21							0		
Capacity, c (veh/h)							661		1100					1341		
v/c Ratio							0.03							0.00		
95% Queue Length, Q ₉₅ (veh)					BALL		0.1		NII V		1			0.0		
Control Delay (s/veh)							10.6							7.7		
Level of Service (LOS)				W-34	F7 11		В							Α		
Approach Delay (s/veh)					10.6									0	.0	
Approach LOS	The Control of the Co					THE SAL					100			MALI		



Appendix D

ITE Trip Generation Excerpts

Land Use: 221 **Multifamily Housing (Mid-Rise)**

Description

Mid-rise multifamily housing includes apartments and condominiums located in a building that has between four and 10 floors of living space. Access to individual dwelling units is through an outside building entrance, a lobby, elevator, and a set of hallways.

Multifamily housing (low-rise) (Land Use 220), multifamily housing (high-rise) (Land Use 222), offcampus student apartment (mid-rise) (Land Use 226), and mid-rise residential with ground-floor commercial (Land Use 231) are related land uses.

Land Use Subcategory

Data are presented for two subcategories for this land use: (1) not close to rail transit and (2) close to rail transit. A site is considered close to rail transit if the walking distance between the residential site entrance and the closest rail transit station entrance is 1/2 mile or less.

Additional Data

For the six sites for which both the number of residents and the number of occupied dwelling units were available, there were an average of 2.5 residents per occupied dwelling unit.

For the five sites for which the numbers of both total dwelling units and occupied dwelling units were available, an average of 96 percent of the total dwelling units were occupied.

The technical appendices provide supporting information on time-of-day distributions for this land use. The appendices can be accessed through either the ITETripGen web app or the trip generation resource page on the ITE website (https://www.ite.org/technical-resources/topics/tripand-parking-generation/).

It is expected that the number of bedrooms and number of residents are likely correlated to the trips generated by a residential site. To assist in future analysis, trip generation studies of all multifamily housing should attempt to obtain information on occupancy rate and on the mix of residential unit sizes (i.e., number of units by number of bedrooms at the site complex).

The sites were surveyed in the 1990s, the 2000s, the 2010s, and the 2020s in Alberta (CAN), California, District of Columbia, Florida, Georgia, Illinois, Maryland, Massachusetts, Minnesota, Montana, New Jersey, New York, Ontario (CAN), Oregon, Utah, and Virginia.

Source Numbers

168, 188, 204, 305, 306, 321, 818, 857, 862, 866, 901, 904, 910, 949, 951, 959, 963, 964, 966, 967, 969, 970, 1004, 1014, 1022, 1023, 1025, 1031, 1032, 1035, 1047, 1056, 1057, 1058, 1071, 1076



Vehicle Trip Ends vs: Dwelling Units
On a: Weekday

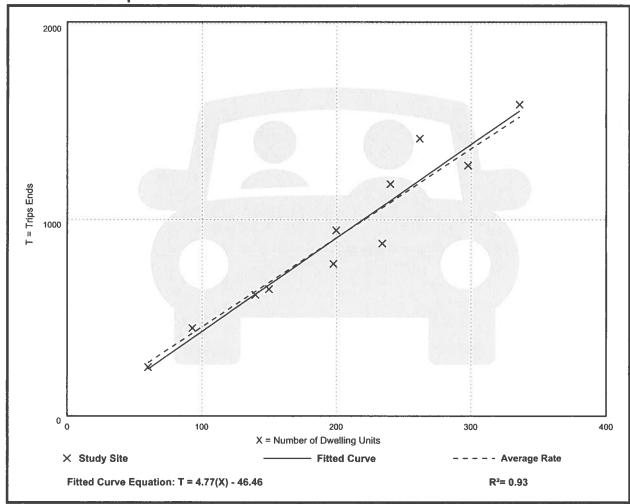
Setting/Location: General Urban/Suburban

Number of Studies: 11 Avg. Num. of Dwelling Units: 201

Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
4.54	3.76 - 5.40	0.51



Vehicle Trip Ends vs: Dwelling Units

On a: Weekday,

Peak Hour of Adjacent Street Traffic,

One Hour Between 7 and 9 a.m.

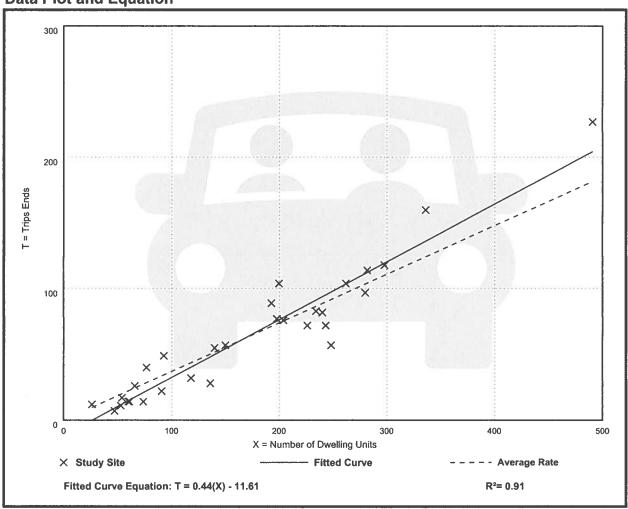
Setting/Location: General Urban/Suburban

Number of Studies: 30 Avg. Num. of Dwelling Units: 173

Directional Distribution: 23% entering, 77% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.37	0.15 - 0.53	0.09





Vehicle Trip Ends vs: Dwelling Units

On a: Weekday,

Peak Hour of Adjacent Street Traffic,

One Hour Between 4 and 6 p.m.

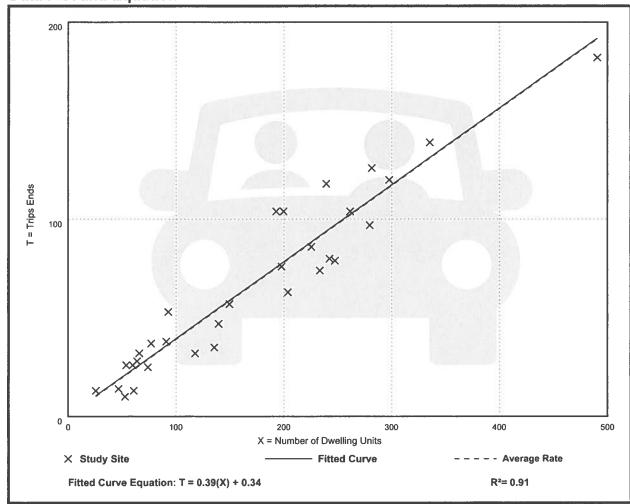
Setting/Location: General Urban/Suburban

Number of Studies: 31 Avg. Num. of Dwelling Units: 169

Directional Distribution: 61% entering, 39% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.39	0.19 - 0.57	0.08



Vehicle Trip Ends vs: Dwelling Units On a: Saturday

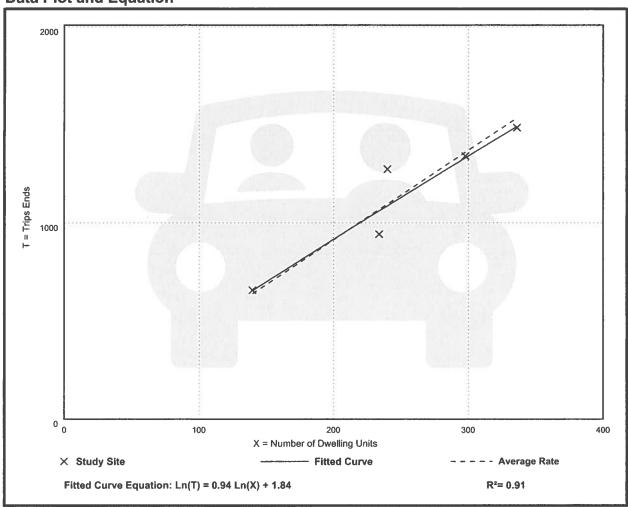
Setting/Location: General Urban/Suburban

Number of Studies: 5 Avg. Num. of Dwelling Units: 250

Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
4.57	4.03 - 5.31	0.46





Vehicle Trip Ends vs: Dwelling Units

On a: Saturday, Peak Hour of Generator

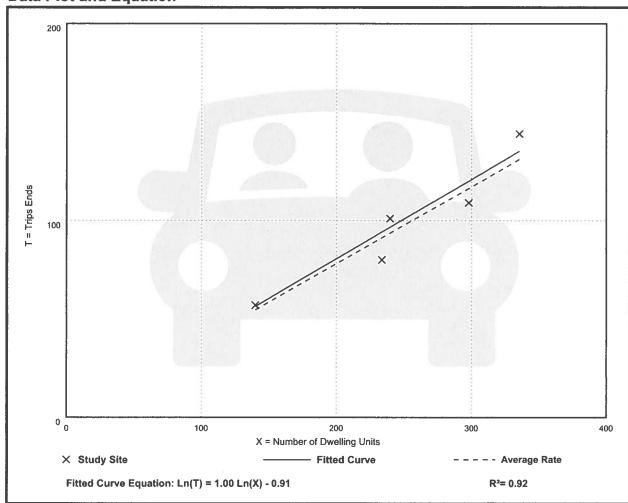
Setting/Location: General Urban/Suburban

Number of Studies: 5 Avg. Num. of Dwelling Units: 250

Directional Distribution: 51% entering, 49% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.39	0.34 - 0.43	0.04



Land Use: 822 Strip Retail Plaza (<40k)

Description

A strip retail plaza is an integrated group of commercial establishments that is planned, developed, owned, and managed as a unit. Each study site in this land use has less than 40,000 square feet of gross leasable area (GLA). Because a strip retail plaza is open-air, the GLA is the same as the gross floor area of the building.

The 40,000 square feet GFA threshold between strip retail plaza and shopping plaza (Land Use 821) was selected based on an examination of the overall shopping center/plaza database. No shopping plaza with a supermarket as its anchor is smaller than 40,000 square feet GLA.

Shopping center (>150k) (Land use 820), shopping plaza (40-150k) (Land Use 821), and factory outlet center (Land Use 823) are related uses.

Additional Data

The technical appendices provide supporting information on time-of-day distributions for this land use. The appendices can be accessed through either the ITETripGen web app or the trip generation resource page on the ITE website (https://www.ite.org/technical-resources/topics/tripand-parking-generation/).

The sites were surveyed in the 1980s, the 1990s, the 2000s, and the 2010s in Alberta (CAN), California, Delaware, Florida, New Jersey, Ontario (CAN), South Dakota, Vermont, Washington, and Wisconsin.

Source Numbers

304, 358, 423, 428, 437, 507, 715, 728, 936, 960, 961, 974, 1009

Strip Retail Plaza (<40k) (822)

Vehicle Trip Ends vs: 1000 Sq. Ft. GLA

On a: Weekday

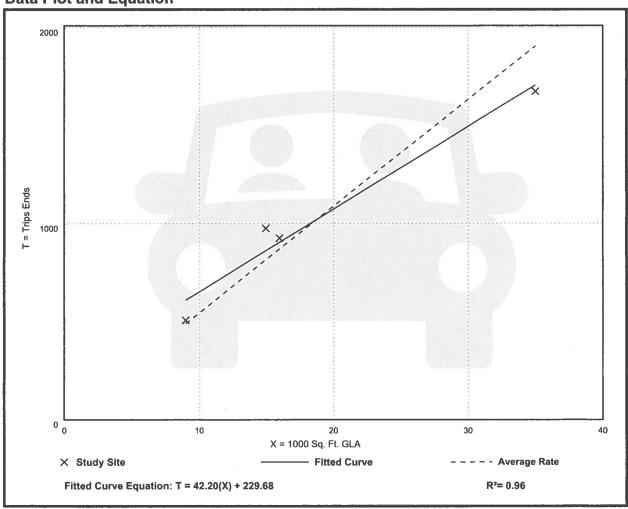
Setting/Location: General Urban/Suburban

Number of Studies: 4 Avg. 1000 Sq. Ft. GLA: 19

Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GLA

Average Rate	Range of Rates	Standard Deviation
54.45	47.86 - 65.07	7.81





Strip Retail Plaza (<40k) (822)

Vehicle Trip Ends vs: 1000 Sq. Ft. GLA

On a: Weekday,

Peak Hour of Adjacent Street Traffic,

One Hour Between 7 and 9 a.m.

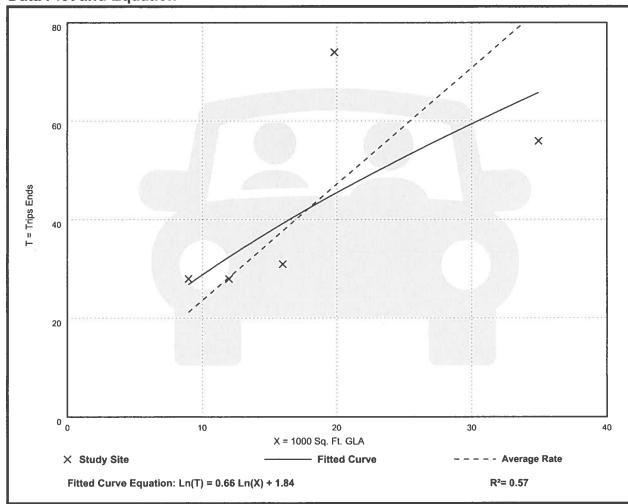
Setting/Location: General Urban/Suburban

Number of Studies: 5 Avg. 1000 Sq. Ft. GLA: 18

Directional Distribution: 60% entering, 40% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GLA

Average Rate	Range of Rates	Standard Deviation
2.36	1.60 - 3.73	0.94



Strip Retail Plaza (<40k)

Vehicle Trip Ends vs: 1000 Sq. Ft. GLA

On a: Weekday,

Peak Hour of Adjacent Street Traffic,

One Hour Between 4 and 6 p.m.

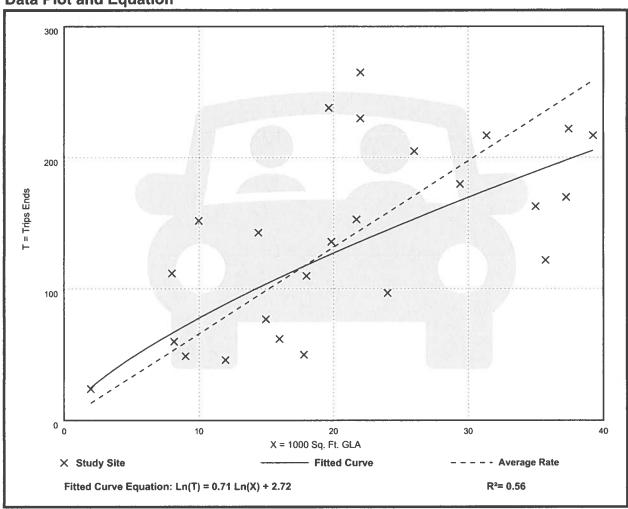
Setting/Location: General Urban/Suburban

Number of Studies: 25 Avg. 1000 Sq. Ft. GLA: 21

Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GLA

Average Rate	Range of Rates	Standard Deviation
6.59	2.81 - 15.20	2.94





Strip Retail Plaza (<40k)

Vehicle Trip Ends vs: 1000 Sq. Ft. GLA

On a: Saturday, Peak Hour of Generator

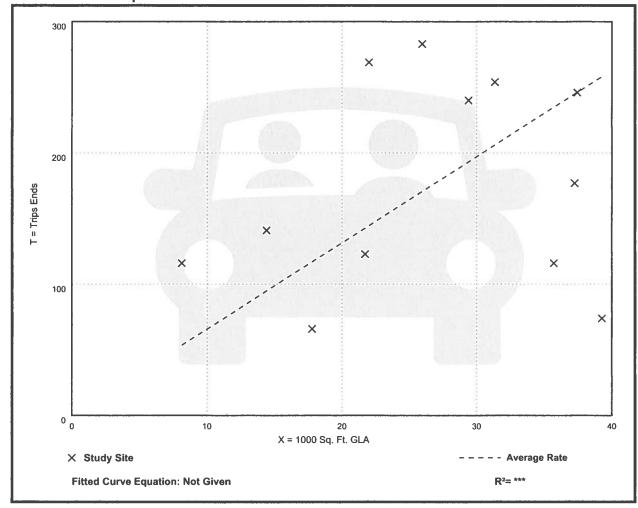
Setting/Location: General Urban/Suburban

Number of Studies: 12 Avg. 1000 Sq. Ft. GLA: 27

Directional Distribution: 51% entering, 49% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GLA

Average Rate	Range of Rates	Standard Deviation
6.57	1.88 - 14.23	3.45



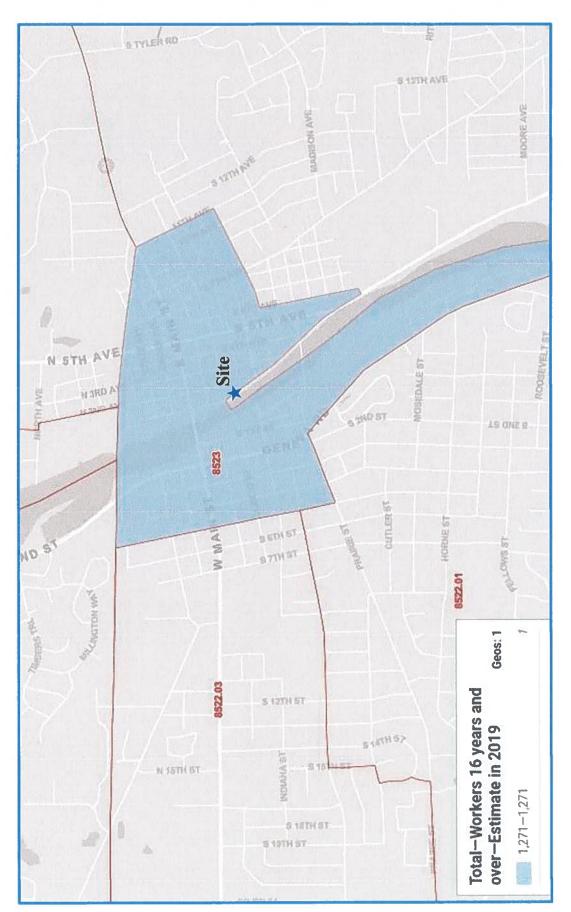


Appendix E

US Census Data



US Census Tract Map





MEANS OF TRANSPORTATION TO WORK

Note: This is a modified view of the original table produced by the U.S. Census Bureau. This download or printed version may have missing information from the original table.

Cer	Census Tract 8523, Kane County, Illinois	
Label	Estimate	Margin of Error
▼ Total:	1,271	+204
▼ Car, truck, or van:	1,140	+185
Drove alone	1,107	#188
✓ Carpooled:	33	±32
In 2-person carpool	33	±32
In 3-person carpool	0	+11
In 4-person carpool	0	111
In 5- or 6-person carpool	0	+11
In 7-or-more-person carpool	0	+1
Public transportation (excluding taxicab):	44	±42
Bus	23	+36
Subway or elevated rail	0	H11
Long-distance train or commuter rail	21	±22
Light rail, streetcar or trolley (carro público in Puerto Rico)	0	+1
Ferryboat	0	+1
Taxicab	0	#11
Motorcycle	0	+111
Bicycle	10	±13
Walked	21	+15
Other means	0	+11
Worked from home	26	153

Table Notes

MEANS OF TRANSPORTATION TO WORK

Survey/Program: American Community Survey Universe: Workers 16 years and over

Year: 2019

Estimates: 5-Year **Table ID:** B08301 Although the American Community Survey (ACS) produces population, demographic and housing unit estimates, it is the Census Bureau's Population Estimates Program that produces and disseminates the official estimates of the population for the nation, states, counties, cities, and towns and estimates of housing units for states and counties.

Source: U.S. Census Bureau, 2015-2019 American Community Survey 5-Year Estimates

2019 ACS data products include updates to several categories of the existing means of transportation question. For more information, see: Change to Means of Transportation.

Data are based on a sample and are subject to sampling variability. The degree of uncertainty for an estimate arising from sampling variability is represented through the use of a margin of error. The value shown here is the 90 percent margin of error. The margin of error can be interpreted roughly as providing a 90 percent probability that the interval defined by the estimate minus the margin of and the estimate plus the margin of error (the lower and upper confidence bounds) contains the true value. In addition to sampling variability, the ACS estimates are subject to nonsampling error (for a discussion of nonsampling variability, see ACS Technical Documentation). The effect of nonsampling error is not represented in these tables.

Workers include members of the Armed Forces and civilians who were at work last week.

areas. In certain instances, the names, codes, and boundaries of the principal cities shown in ACS tables may differ from the OMB delineation lists due to differences in the effective dates of the The 2015-2019 American Community Survey (ACS) data generally reflect the September 2018 Office of Management and Budget (OMB) delineations of metropolitan and micropolitan statistical geographic entities. Estimates of urban and rural populations, housing units, and characteristics reflect boundaries of urban areas defined based on Census 2010 data. As a result, data for urban and rural areas from the ACS do not necessarily reflect the results of ongoing urbanization.

Explanation of Symbols:

An *** entry in the margin of error column indicates that either no sample observations or too few sample observations were available to compute a standard error and thus the margin of error. A statistical test is not appropriate.

calculated because one or both of the median estimates falls in the lowest interval or upper interval of an open-ended distribution, or the margin of error associated with a median was larger An "-" entry in the estimate column indicates that either no sample observations or too few sample observations were available to compute an estimate, or a ratio of medians cannot be than the median itself.

An "." following a median estimate means the median falls in the lowest interval of an open-ended distribution.

An "+" following a median estimate means the median falls in the upper interval of an open-ended distribution.

An "***" entry in the margin of error column indicates that the median falls in the lowest interval or upper interval of an open-ended distribution. A statistical test is not appropriate. An "*****" entry in the margin of error column indicates that the estimate is controlled. A statistical test for sampling variability is not appropriate.

An "N" entry in the estimate and margin of error columns indicates that data for this geographic area cannot be displayed because the number of sample cases is too small. An "(X)" means that the estimate is not applicable or not available.

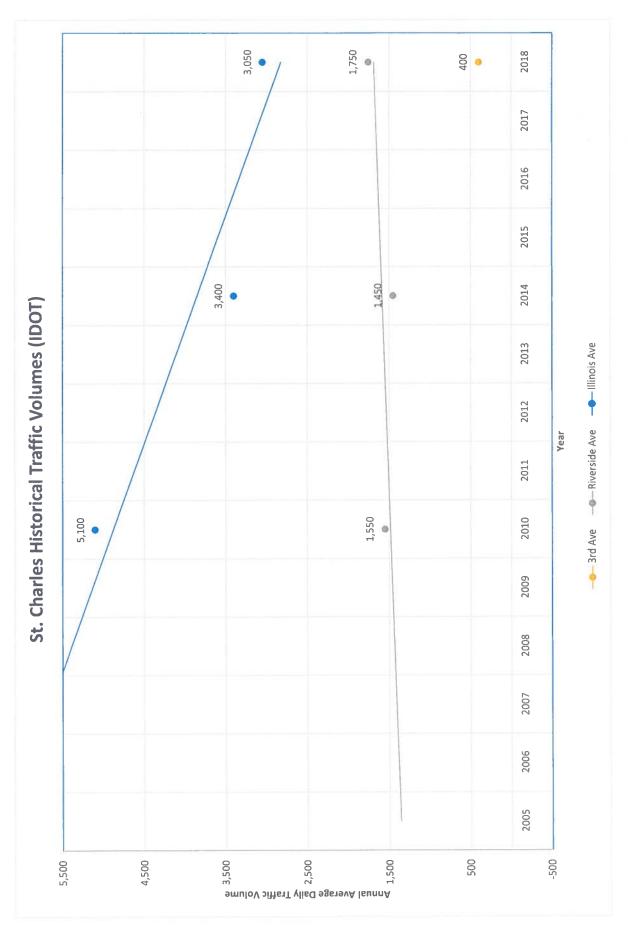
Supporting documentation on code lists, subject definitions, data accuracy, and statistical testing can be found on the American Community Survey website in the Technical Documentation section.

Sample size and data quality measures (including coverage rates, allocation rates, and response rates) can be found on the American Community Survey website in the Methodology section.



Appendix F

Historical Traffic Volumes / Growth

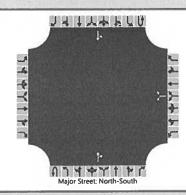




Appendix G

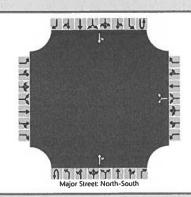
Total Capacity Analysis Worksheets

		ay Stop-Control Report				
General Information		Site Information				
Analyst	LMM	Intersection	2nd Ave / Indiana Ave			
Agency/Co.	BLA	Jurisdiction				
Date Performed	6/21/22	East/West Street	Indiana Ave			
Analysis Year	2028	North/South Street	2nd Ave			
Time Analyzed	Weekday AM- Total	Peak Hour Factor	0.83			
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25			
Project Description						



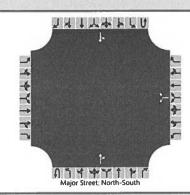
Approach		Eastb	ound			West	oound			North	bound		Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	0	0	7	0	1	0	0	0	1	0	0	0	1	0
Configuration							LR					TR		LT		
Volume (veh/h)		Day!				17	LE SL	2			20	3		2	12	
Percent Heavy Vehicles (%)						0		0						0		
Proportion Time Blocked								4 4						111,24		
Percent Grade (%)						()									
Right Turn Channelized		Parish	W. N						Was in	o Grand					- med	
Median Type Storage	T		11.2	Undi	vided					1			X			
Critical and Follow-up H	eadwa	ys														
Base Critical Headway (sec)	T					7.1		6.2						4.1		
Critical Headway (sec)			MA			6.40		6.20						4.10		
Base Follow-Up Headway (sec)						3.5		3.3						2.2		
Follow-Up Headway (sec)		MAKES!				3.50	4 44 7	3.30						2.20		
Delay, Queue Length, an	d Leve	l of S	ervice													
Flow Rate, v (veh/h)	T						23							2		
Capacity, c (veh/h)							977							1599	VV	
v/c Ratio							0.02							0.00		
95% Queue Length, Q ₉₅ (veh)				111111		11/	0.1			I NEW	244			0.0		
Control Delay (s/veh)		2.7					8.8							7.3	0.0	
Level of Service (LOS)	1 4					1104	Α		7					A	Α	
Approach Delay (s/veh)						8	.8						1.0			
Approach LOS		SHIP		Thy are			A			Calley.	Our Th			1	4	

General Information		Site Information					
Analyst	LMM	Intersection	2nd Ave / Indiana Ave				
Agency/Co.	BLA	Jurisdiction					
Date Performed	6/21/22	East/West Street	Indiana Ave				
Analysis Year	2028	North/South Street	2nd Ave				
Time Analyzed	Weekday PM- Total	Peak Hour Factor	0.71				
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25				
Project Description							



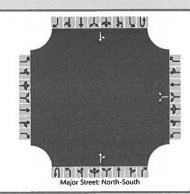
Approach		Eastb	ound			West	oound			North	bound			South	oound	
Movement	U	L	Т	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	0	0		0	1	0	0	0	1	0	0	0	1	0
Configuration							LR					TR		LT		
Volume (veh/h)						10		0			23	0		0	36	
Percent Heavy Vehicles (%)						0		0						0		
Proportion Time Blocked	I N														1515	
Percent Grade (%)						()						22.2			
Right Turn Channelized		4000				-				- 110					of him	NV.
Median Type Storage			200.20	Undi	vided		***	- 12.65								
Critical and Follow-up H	eadwa	ys														
Base Critical Headway (sec)	T					7.1		6.2						4.1		
Critical Headway (sec)						6.40		6.20						4.10		
Base Follow-Up Headway (sec)						3.5		3.3						2.2		
Follow-Up Headway (sec)			==			3.50		3.30						2.20		
Delay, Queue Length, an	d Leve	l of S	ervice													
Flow Rate, v (veh/h)	T		Γ	T			14							0		
Capacity, c (veh/h)							924		HW.					1593		
v/c Ratio							0.02							0.00		
95% Queue Length, Q ₉₅ (veh)							0.0							0.0		
Control Delay (s/veh)							9.0							7.3	0.0	
Level of Service (LOS)			Wall.				А		1 8					Α	Α	
Approach Delay (s/veh)	0000					9	.0							0	.0	
Approach LOS				1			A		A				A			

	HCS Two-W	ay Stop-Control Report							
ieneral Information		Site Information							
Analyst	LMM	Intersection	2nd Ave / Indiana Ave						
Agency/Co.	BLA	Jurisdiction							
Date Performed	4/11/22	East/West Street	Indiana Ave						
Analysis Year	2028	North/South Street	2nd Ave						
Time Analyzed	Saturday MID- Total	Peak Hour Factor	0.73						
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25						
Project Description									



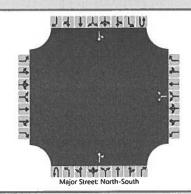
Vehicle Volumes and Adj Approach	- Contraction	-	ound			Westh	nound			North	bound		T	South	oound		
Movement	U	T	R	U	L	T	R	U	L	Т	R	U	L	T	R		
	-	10	11	12	-	7	8	9	10	1	2	3	4U	4	5	6	
Priority			0	0		0	1	0	0	0	1	0	0	0	1	0	
Number of Lanes	-	0	0	0		0		0	0	0	1	TR	0	LT		-	
Configuration	-						LR				40	-			20		
Volume (veh/h)						17		2			40	7		0	28	-	
Percent Heavy Vehicles (%)						0		0						0			
Proportion Time Blocked																	
Percent Grade (%))										
Right Turn Channelized			Daw Th			Herry III										81	
Median Type Storage				Undi	vided		77.27	3001		41 55							
Critical and Follow-up H	eadwa	ys															
Base Critical Headway (sec)	T					7.1		6.2						4.1			
Critical Headway (sec)						6.40		6.20						4.10			
Base Follow-Up Headway (sec)						3.5		3.3						2.2			
Follow-Up Headway (sec)						3.50		3.30						2.20			
Delay, Queue Length, an	d Leve	l of S	ervice														
Flow Rate, v (veh/h)							26	-						0			
Capacity, c (veh/h)							916							1551			
v/c Ratio							0.03							0.00			
95% Queue Length, Q ₉₅ (veh)						T. H.	0.1							0.0			
Control Delay (s/veh)	T						9.0							7.3	0.0		
Level of Service (LOS)				1743			Α		HUG					Α	Α		
Approach Delay (s/veh)						9	.0						0.0				
Approach LOS					0,000		A	DUTT	NAME OF		104	AV VS			Ą		

HCS Two-Way Stop-Control Report											
ieneral Information		Site Information									
Analyst	LMM	Intersection	Riverside/2nd								
Agency/Co.	BLA	Jurisdiction									
Date Performed	6/21/22	East/West Street	2nd Ave								
Analysis Year	2028	North/South Street	Riverside Ave								
Time Analyzed	Weekday AM- Total	Peak Hour Factor	0.83								
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25								
Project Description			5 %								



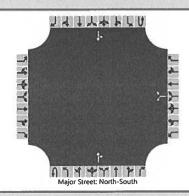
Vehicle Volumes and Ad	T		NOTES AV												9,156		
Approach		Eastbound				Westl	oound			North	bound			South	oound	_	
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	
Priority		10	11	12		7	8	9	10	1	2	3	4U	4	5	6	
Number of Lanes		0	0	0		0	1	0	0	0	1	0	0	0	1	0	
Configuration							LR					TR		LT			
Volume (veh/h)			8.08			20		11			69	22		3	60		
Percent Heavy Vehicles (%)						0		0						0			
Proportion Time Blocked																	
Percent Grade (%)						-	0			123	1.000						
Right Turn Channelized						nomic us						a land					
Median Type Storage				Undi	vided	15/8	1440			- 170 							
Critical and Follow-up H	eadwa	ys															
Base Critical Headway (sec)						7.1		6.2						4.1			
Critical Headway (sec)						6.40		6.20						4.10			
Base Follow-Up Headway (sec)						3.5		3.3						2.2	-		
Follow-Up Headway (sec)					-	3.50		3.30						2.20			
Delay, Queue Length, an	d Leve	l of Se	ervice			0/21											
Flow Rate, v (veh/h)	T						37							4			
Capacity, c (veh/h)			174				864		Man	10-17				1493			
v/c Ratio							0.04							0.00			
95% Queue Length, Q ₉₅ (veh)			, and				0.1							0.0			
Control Delay (s/veh)							9.4							7.4	0.0		
Level of Service (LOS)							A			100				Α	Α		
Approach Delay (s/veh)		-				9	0.4	A					0.4				
Approach LOS			L. F.				A					100		-	A		

	HC2 IWO-W	ay Stop-Control Report	
General Information		Site Information	
Analyst	LMM	Intersection	Riverside/2nd
Agency/Co.	BLA	Jurisdiction	
Date Performed	6/21/22	East/West Street	2nd Ave
Analysis Year	2028	North/South Street	Riverside Ave
Time Analyzed	Weekday PM- Total	Peak Hour Factor	0.83
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description			



Vehicle Volumes and Adj			ound			West	ound			North	bound			South	oound	-	
Approach	-							-								-	
Movement	U	L	Τ	R	U	L	T	R	U	L	T	R	U	L	T	R	
Priority		10	11	12		7	8	9	10	1	2	3	4U	4	5	6	
Number of Lanes		0	0	0		0	1	0	0	0	1	0	0	0	1	0	
Configuration							LR					TR		LT			
Volume (veh/h)					7 3 10	21		25			118	20		3	80		
Percent Heavy Vehicles (%)						0		0						0			
Proportion Time Blocked																	
Percent Grade (%)						(0										
Right Turn Channelized								V-2 [1-1]									
Median Type Storage				Undi	vided							50 					
Critical and Follow-up H	eadwa	ys				7 2 TO 12 Y											
Base Critical Headway (sec)						7.1		6.2						4.1			
Critical Headway (sec)		B Ly		CHI		6.40		6.20						4.10	170		
Base Follow-Up Headway (sec)						3.5		3.3						2.2			
Follow-Up Headway (sec)						3.50		3.30			ye ne			2.20	4,50		
Delay, Queue Length, an	d Leve	l of S	ervice														
Flow Rate, v (veh/h)							55							4			
Capacity, c (veh/h)							814							1424			
v/c Ratio							0.07							0.00			
95% Queue Length, Q ₉₅ (veh)							0.2	100						0.0			
Control Delay (s/veh)							9.7							7.5	0.0		
Level of Service (LOS)			D. Tall				Α							Α	Α		
Approach Delay (s/veh)						9	.7						0.3				
Approach LOS					11111	MANUE	A			18 - 1			A				

	HCS Two-W	ay Stop-Control Report	
General Information		Site Information	
Analyst	LMM	Intersection	Riverside/2nd
Agency/Co.	BLA	Jurisdiction	
Date Performed	6/21/22	East/West Street	2nd Ave
Analysis Year	2028	North/South Street	Riverside Ave
Time Analyzed	Saturday MID - Total	Peak Hour Factor	0.80
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description			



Approach	T	Easth	ound		T	West	oound			North	bound			Southi	bound	
Movement	ULTR			U	L	Т	R	U	L	Т	R	U	L	Т	R	
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	0	0		0	1	0	0	0	1	0	0	0	1	0
Configuration							LR					TR		LT		
Volume (veh/h)			101/41			29		18			164	41	Time.	8	94	
Percent Heavy Vehicles (%)						0		0						0		
Proportion Time Blocked		1			10		1	1/1/2		2.	1000	N. Villa		Links		
Percent Grade (%)						-	0					-			-21	
Right Turn Channelized	N S I		in care			in the contract of										
Median Type Storage				Undi	vided	-	1211112							52 N CI		
Critical and Follow-up H	eadwa	ys														
Base Critical Headway (sec)	T			П		7.1		6.2						4.1		
Critical Headway (sec)				h x		6.40	21	6.20						4.10		
Base Follow-Up Headway (sec)						3.5		3.3				location in the		2.2		
Follow-Up Headway (sec)	Part ling					3.50	- Almi	3.30		u diy	- 1- 1			2.20	1	
Delay, Queue Length, an	d Leve	of S	ervice	1544											12 To 15	
Flow Rate, v (veh/h)	T			Г	T		59							10		
Capacity, c (veh/h)			Willes.		19111		690							1320		
v/c Ratio							0.09	Ì						0.01		П
95% Queue Length, Q ₉₅ (veh)		112	2 1				0.3		MAN.					0.0	1 7/10	
Control Delay (s/veh)							10.7	11.77						7.7	0.1	
Level of Service (LOS)		Male					В			W & N				Α	Α	
Approach Delay (s/veh)						10	0.7							0	.7	
Approach LOS		William	1100		10000		В			in bit	William !	William		-	4	