### TRAFFIC IMPACT STUDY

For

# B9 Schoolhouse Owner, LLC Proposed Warehouse Development

Property Located at:

96-104 Schoolhouse Road Block 514 – Lots 1, 2, 3 and 60 Township of Franklin, Somerset County, NJ



1904 Main Street | 245 Main Street, Suite #110 Lake Como, NJ 07719 | Chester, NJ 07930 (732) 681-0760

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April 21, 2022 Last Revised: February 24, 2023

3566-99-005T



#### INTRODUCTION

It is proposed to construct a warehouse development on a parcel of land currently occupied by two single family dwellings, located along the eastbound side of Schoolhouse Road in Franklin Township, Somerset County, New Jersey (see Figure 1 in Appendix A). The site is designated as Block 514 – Lots 1, 2, 3 and 60 on the Township of Franklin Tax Maps. It is proposed to construct two warehouse buildings for a total of 215,420 SF, with Building 1 consisting of 144,450 SF and Building 2 consisting of 70,970 SF ("The Project"). Access is currently provided via three driveways along Schoolhouse Road. It is proposed to close the existing access points and construct two new full movement driveways along Schoolhouse Road. The western driveway will be restricted to passenger vehicle access only and the eastern driveway will primarily serve truck traffic. Egressing left turning movements will be restricted for trucks at the eastern site driveway. The site is located within the B-I – Business and Industry Zoning District. Parking will be provided via a combined 105 on-site parking spaces between the two buildings. Additionally, 60 loading docks will be provided and each building will provide one drive-in ramp.

Dynamic Traffic LLC has been retained to prepare this study to assess the traffic impact associated with the construction of The Project on the adjacent roadway network. This study documents the methodology, analyses, findings and conclusions of our study and includes:

- A detailed field inspection was conducted to obtain an inventory of existing roadway geometry, traffic control, and location and geometry of existing driveways and intersections.
- Existing traffic data was collected via manual turning movement (MTM) counts during the weekday AM and weekday PM peak periods at the intersections of:
  - o Schoolhouse Road and Mettlers Road
  - Schoolhouse Road and Dewitt Boulevard/Greg Smith Equipment Driveway
- Projections of traffic to be generated by the proposed development were prepared utilizing trip generation data as published by the Institute of Transportation Engineers. Site traffic was then assigned to the adjacent street system based upon the anticipated directional distribution.
- Capacity analyses were conducted for the Existing, No Build, and Build conditions for the study intersections.
- The proposed points of ingress and egress were inspected for adequacy of geometric design, spacing and/or alignment to streets and driveways on the opposite side of the street, relationship to other driveways adjacent to the development, and conformance with accepted design standards.
- The site plan as designed was reviewed for sufficiency in accommodating large wheel base vehicles such as delivery trucks, refuse trucks, and emergency vehicles.
- The parking layout and supply was assessed based on accepted design standards, local requirements, and demand experienced at similar developments.



#### **EXISTING CONDITIONS**

A review of the existing roadway conditions near the proposed site was conducted to provide the basis for assessing the traffic impact of the development. This included field investigations of the surrounding roadways and intersections, collection of traffic volume data, and extensive analyses.

#### **Existing Roadway Conditions**

The following are descriptions of the roadways in the study area:

Schoolhouse Road is an Urban Major Collector roadway under Franklin Township jurisdiction with a general east/west orientation. In the vicinity of the site the posted speed limit is 40 MPH and the roadway provides one travel lane in each direction. Curb is provided along both sides of the roadway while sidewalk is provided along the southerly side of the roadway west of Mettlers Road. Schoolhouse Road provides a straight horizontal alignment and a relatively flat vertical alignment. The land uses along Schoolhouse Road in the vicinity of The Project are mixed industrial and residential.

Mettlers Road is an Urban Major Collector roadway under Franklin Township jurisdiction with a general north/south orientation. In the vicinity of the site the posted speed limit is 35 MPH and the roadway provides one travel lane in each direction. Curb is provided along both sides of the roadway, while sidewalk is only provided along the southbound side of the roadway. Mettlers Road provides a curved horizontal alignment and a rolling vertical alignment. The land uses along Mettlers Road in the vicinity of The Project are primarily residential.

<u>Dewitt Boulevard</u> is a local roadway under private jurisdiction with a general north/south orientation. In the vicinity of the site the posted speed limit is 25 MPH and the roadway provides one travel lane in each direction. On-street parking is not permitted. Curb and sidewalk are provided along both sides of the roadway. Dewitt Boulevard provides a curved horizontal and a relatively flat vertical alignment. The land uses along Dewitt Boulevard are exclusively residential.

#### **Existing Traffic Volumes**

Manual turning movement (MTM) counts were conducted on Thursday, January 27, 2022 from 7:00 to 9:00 AM and from 4:30 to 6:30 PM at the following intersections:

- Schoolhouse Road and Mettlers Road
- Schoolhouse Road and Dewitt Boulevard/Greg Smith Equipment Driveway

Review of the collected traffic data reveals that the weekday morning network peak street hour (PSH) occurs between 7:15-8:15 AM and the weekday evening network PSH occurs between 4:30-5:30 PM. Figure 2, located in Appendix A, shows the existing peak hour traffic volumes at the study intersections. All traffic counts are contained in Appendix B.



#### **Existing Capacity Analysis**

The methodology utilized in the capacity analyses is described in the *Highway Capacity Manual*, published by the Transportation Research Board. In general, the term Level of Service (LOS) is used to provide a "qualitative" evaluation of capacity based upon certain "quantitative" calculations related to empirical values, such as traffic volume and intersection control.

An unsignalized (STOP sign controlled) driveway or side street along a through route is seldom critical from an overall capacity standpoint, however, it may be of great significance to the capacity of the minor cross-route, and it may influence the quality of traffic flow on both. When analyzing an unsignalized intersection, it is assumed that both the major street through and right turn movements are unimpeded and have the right-of-way over all side street traffic and left turns from the major street. All other turning movements in the intersection cross, merge with, or are otherwise impeded by major street movements. Traffic delays at unsignalized intersections are determined by sequentially processing these impeded movements. Table I describes the level of service ranges for unsignalized (stop controlled) intersections.

Table I Level of Service Criteria for Unsignalized Intersections

Level of Service	Average Control Delay (seconds per vehicle)
A	0.0 to 10.0
В	10.1 to 15.0
С	15.1 to 25.0
D	25.1 to 35.0
E	35.1 to 50.0
F	greater than 50.0

All capacity analyses were performed utilizing Synchro 11 software. Table II summarizes the existing levels of service (LOS) and delays. All capacity analysis calculation worksheets are contained in Appendix C.

Table II Existing Levels of Service

Intersection		ction/ ement	AM PSH	PM PSH
Schoolhouse Road & Mettlers Road	WB	L	A (8)	A (8)
Schooliouse Road & Methers Road	NB	LR	B (13)	B (13)
	EB	L	A (8)	A (9)
Schoolhouse Road & Dewitt Boulevard /	WB	L	A (8)	A (8)
Greg Smith Equipment Driveway	NB	LTR	B (14)	B (11)
	SB	LTR	C (17)	C (19)

A (#) - Unsignalized Intersection Level of Service (seconds of delay per vehicle)



The following are discussions pertaining to each of the existing intersections analyzed. The existing percentage of trucks and peak hour factors were used in the existing analysis.

#### Schoolhouse Road and Mettlers Road

Mettlers Road intersects Schoolhouse Road to form an unsignalized T-intersection with the northbound approach of Mettlers Road operating under stop control. The eastbound approach of Schoolhouse Road provides a shared through/right turn lane, while the westbound approach provides a dedicated left turn lane and dedicated through lane. The northbound approach of Mettlers Road provides a shared left/right turn lane.

A review of the existing analysis reveals that all movements operate at levels of service "B" or better during the analyzed peak periods. See Table II for the individual movement levels of service and delays.

#### Schoolhouse Road and Dewitt Boulevard/Greg Smith Equipment Driveway

Dewitt Boulevard and the Greg Smith Equipment driveway intersect Schoolhouse Road to form an unsignalized four-leg intersection with Dewitt Boulevard and the Greg Smith Equipment Driveway operating under stop control. The eastbound approach of Schoolhouse Road provides a dedicated left turn lane and a shared through/right turn lane, while the westbound approach provides a shared left turn/through/right turn lane. The northbound approach of the Greg Smith Equipment driveway and the southbound approach of Dewitt Boulevard each provide a shared left turn/through/right turn lane.

A review of the existing analysis reveals that all movements operate at levels of service "C" or better during the analyzed peak periods. See Table II for the individual movement levels of service and delays.



#### **FUTURE CONDITIONS**

Traffic volumes and operational analyses were developed for both the No Build and Build conditions. The No Build conditions provide a baseline for assessing the impact of the site development traffic on the roadway system. The process of developing the No Build and Build traffic volumes and the subsequent analyses is outlined below.

Regardless of whether the subject site is developed or not, traffic volumes on the surrounding roadways are expected to increase as a result of developments throughout the region. A growth rate for roadways within the study area was obtained from the NJDOT Annual Background Growth Rate Table, which indicates a growth rate of 1.75% per year.

It should be noted that there is one (1) development in the vicinity of the site that has been submitted for approval that is identified as a potential significant traffic generator, shown below. The Adjacent Development Traffic Volumes passing the site are shown on Figure 3. It was assumed that the background growth rate was adequate to account for the traffic associated with all background growth in the study area.

• A development consisting of 90,000 SF of warehouse, located at the intersection of Schoolhouse Road and Heller Park Lane, is in the preliminary planning process. While the development has not yet been approved, it has been included to provide a conservative analysis. Projections of the associated traffic volumes were developed using data as published by the Institute of Transportation Engineers (ITE) publication Trip Generation, 11th Edition for Land Use Code (LUC) 150 - Warehousing.

Future No Build traffic volumes were developed by applying the background growth rate of 1.75% for two (2) years to the study area roadways existing traffic volumes and adding the adjacent development traffic volumes. Figure 4, in Appendix A, shows the No Build traffic volumes.

#### **Traffic Generation**

Trip generation projections for The Project were prepared utilizing trip generation research data as published under Land Use Code 150 – Warehousing in the Institute of Transportation Engineers' (ITE) publication, *Trip Generation*, 11<sup>th</sup> Edition. This publication sets forth trip generation rates based on traffic counts conducted at research sites throughout the country. The heavy vehicle volumes were developed based on data published by ITE in the 10<sup>th</sup> Edition of *Trip Generation*.

Table III
Trip Generation

Ти:	True	1	AM PSF	ł	]	PM PSE	[
1111	Type	In	Out	Total	In	Out	Total
215 420 CE	Heavy Vehicles	5	1	6	2	6	8
215,420 SF Warehouse	Automobiles	33	10	43	13	31	44
warenouse	Total	38	11	49	15	37	52



Once the magnitude of traffic to be generated by the site is known, it is necessary to assign that traffic to the adjacent street system. The distribution of new traffic to the surrounding roadways is based on the location of primary arterial roadways, major signalized intersections and existing traffic patterns. Located in Appendix A, Figures 5-9 illustrate the Car Traffic Trip Distribution, Car Site Generated Volumes, Truck Traffic Trip Distribution, Truck Site Generated Volumes, and the Total Site Generated Volumes, respectively. The Total Site Generated Volumes assigned to the study area network were added to the No Build traffic volumes to generate the Build traffic volumes, which are shown in Figure 10.

#### **Future Capacity Analysis**

Operational conditions at the study intersections were analyzed under the No Build and Build conditions and are summarized in Table IV below.

Table IV Future Levels of Service

Intersection	Direc	ction/	AM	PSH	PM :	PSH
Intersection	Move	ement	No Build	Build	No Build	Build
Schoolhouse Road &	WB	L	A (9)	A (9)	A (8)	A (8)
Mettlers Road	NB	LR	B (14)	B (14)	B (14)	B (14)
0.1.11 D. 1.0	EB	L	A (8)	A (8)	A (9)	A (9)
Schoolhouse Road &	WB	L	A (8)	A (8)	A (8)	A (10)
Dewitt Boulevard / Greg Smith Equipment Driveway	NB	LTR	B (14)	B (15)	B (11)	B (11)
Equipment Driveway	SB	LTR	C (18)	C (19)	C (20)	C (21)
Schoolhouse Road &	WB	L	-	A (8)	-	A (8)
Western Site Driveway	NB	LR	-	B (14)	-	B (14)
Schoolhouse Road &	WB	L	-	A (9)	-	A (9)
Eastern Site Driveway	NB	LR	-	B (14)	-	B (13)

A (#) - Unsignalized Intersection Level of Service (seconds of delay per vehicle)

#### Schoolhouse Road and Mettlers Road

With the addition of site generated traffic, each movement is anticipated to operate at No Build levels of service "B" or better during the analyzed peak hours. See Table IV for the individual movement levels of service and delays.

#### Schoolhouse Road and Dewitt Boulevard/Greg Smith Equipment Driveway

With the addition of site generated traffic, each movement is anticipated to operate at No Build levels of service "C" or better during the analyzed peak hours. See Table IV for the individual movement levels of service and delays.



#### Schoolhouse Road and Western Site Driveway

The western site driveway is proposed to intersect Schoolhouse Road to form an unsignalized T-intersection with the northbound approach of the western site driveway operating under stop control. The eastbound approach of Schoolhouse Road provides a shared through/right turn lane, while the westbound approach provides a shared left turn/through lane. The northbound approach of the western site driveway provides a shared left turn/right turn lane.

As designed, the individual intersection movements are anticipated to operate at levels of service "B" or better during the studied peak hours. See Table IV for the individual movement levels of service and delays.

#### Schoolhouse Road and Eastern Site Driveway

The eastern site driveway is proposed to intersect Schoolhouse Road to form an unsignalized T-intersection with the northbound approach of the eastern site driveway operating under stop control. The eastbound approach of Schoolhouse Road provides a shared through/right turn lane, while the westbound approach provides a shared left turn/through lane. The northbound approach of the eastern site driveway provides a shared left turn/right turn lane. As stated previously, no truck traffic will be permitted to make a left turn egress movement.

As designed, the individual intersection movements are anticipated to operate at levels of service "B" or better during the studied peak hours. See Table IV for the individual movement levels of service and delays.



#### SITE PLAN

#### **Site Access**

The site plan was reviewed with respect to the site access and on-site circulation design. As noted previously, access to The Project will be provided via two new full movement driveways along Schoolhouse Road. The western driveway will be restricted to passenger vehicle access only and the eastern driveway will primarily serve truck traffic with left turn egress restricted for truck traffic.

The newly constructed parking areas will be serviced by parking aisles with a minimum width of 26-feet for passenger car circulation and a minimum width of 88-feet for truck circulation which are both consistent with generally accepted engineering design standards. These aisles will allow for two-way circulation and 90-degree parking. Review of the site plan design indicates that the site can sufficiently accommodate, within paved areas, a large wheel base vehicle, such as tractor trailers along with the automobile traffic anticipated.

#### **Parking**

The Franklin Township Ordinance sets forth a parking requirement of 1 parking space per each 1,000 SF for the first 5,000 SF, then 1 parking space for each 2,500 SF thereafter for warehouse uses. This equates to a parking requirement of 61 spaces for the proposed 144,450 SF Building 1 and 32 spaces for the 70,970 SF Building 2. This equates to a total parking requirement of 93 spaces for the 215,420 SF warehouse development. The site as proposed provides 105 parking spaces and as such the Ordinance requirement is satisfied.

It is proposed to provide parking stalls with dimensions of 9'x18', which satisfy the Ordinance minimum requirement of 9'x18'. Additionally, the site will provide trailer storage spaces which will have dimensions of 13.5'x60' which are consistent with accepted engineering design standards and will adequately accommodate the proposed design vehicle.



#### FINDINGS & CONCLUSIONS

#### **Findings**

Based upon the detailed analyses as documented herein, the following findings are noted:

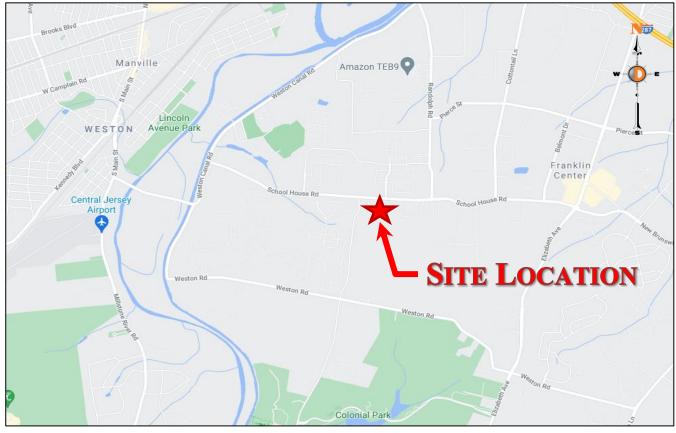
- The proposed 215,420 SF total warehouse development, is projected to generate 38 entering trips and 11 exiting trips during the weekday morning peak hour and 15 entering trips and 37 exiting trips during the evening peak hour that are "new" to the adjacent roadway network.
- Access to the site is proposed to be provided via construct two new full movement driveways along Schoolhouse Road. The western driveway will be restricted to passenger vehicle access only and the eastern driveway will primarily serve truck traffic. Left turn egress movements will be restricted for trucks utilizing the eastern site driveway.
- With the addition of site generated traffic, the intersection of Schoolhouse Road and Mettlers Road is anticipated to operate at No Build levels of service "B" or better during the peak hours studied.
- With the addition of site generated traffic, the intersection of Schoolhouse Road and Dewitt Boulevard/Greg Smith Equipment Driveway is anticipated to operate at No Build levels of service "C" or better during the peak hours studied.
- As designed, the intersection of Schoolhouse Road and the western site driveway is anticipated to operate at acceptable levels of service "B" or better during the peak hours studied.
- As designed, the intersection of Schoolhouse Road and the eastern site driveway is anticipated to operate at acceptable levels of service "B" or better during the peak hours studied.
- As proposed, The Project's site driveways and internal circulation have been designed to provide for safe and efficient movement of automobiles and large wheel base vehicles.
- The proposed parking supply and design is sufficient to support the projected demand and satisfies the Ordinance requirements.

#### **Conclusions**

Based upon our Traffic Impact Study as detailed in the body of this report, it is the professional opinion of Dynamic Traffic LLC that the adjacent street system of the Township of Franklin will not experience any significant degradation in operating conditions with the construction of The Project. The site driveways are located to provide safe and efficient access to the adjacent roadway system. The site plan as proposed provides for good circulation throughout the site and provides adequate parking to accommodate The Project's needs.

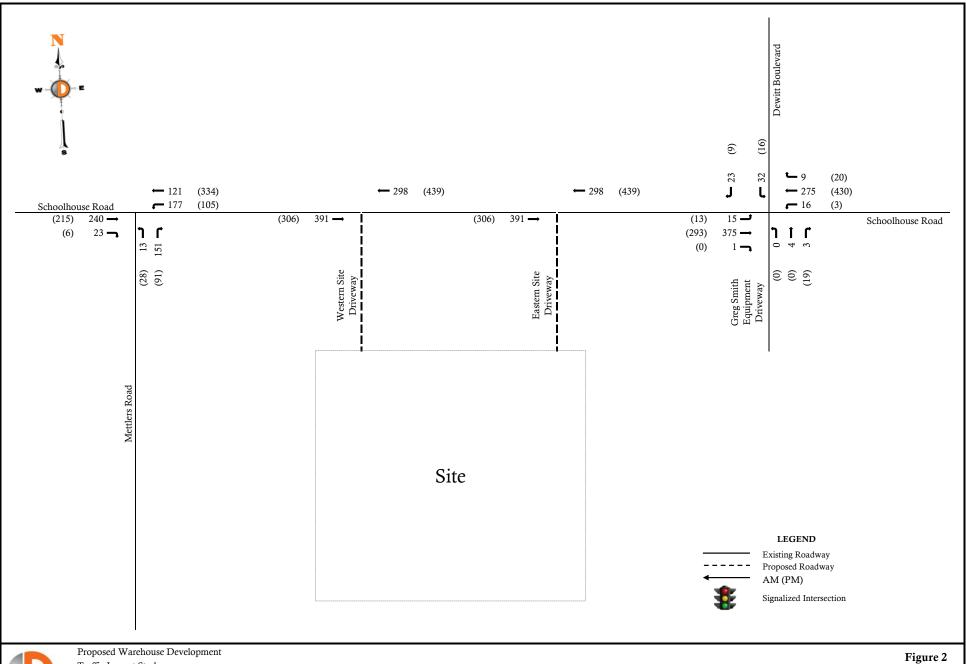
Appendix A Traffic Volume Figures

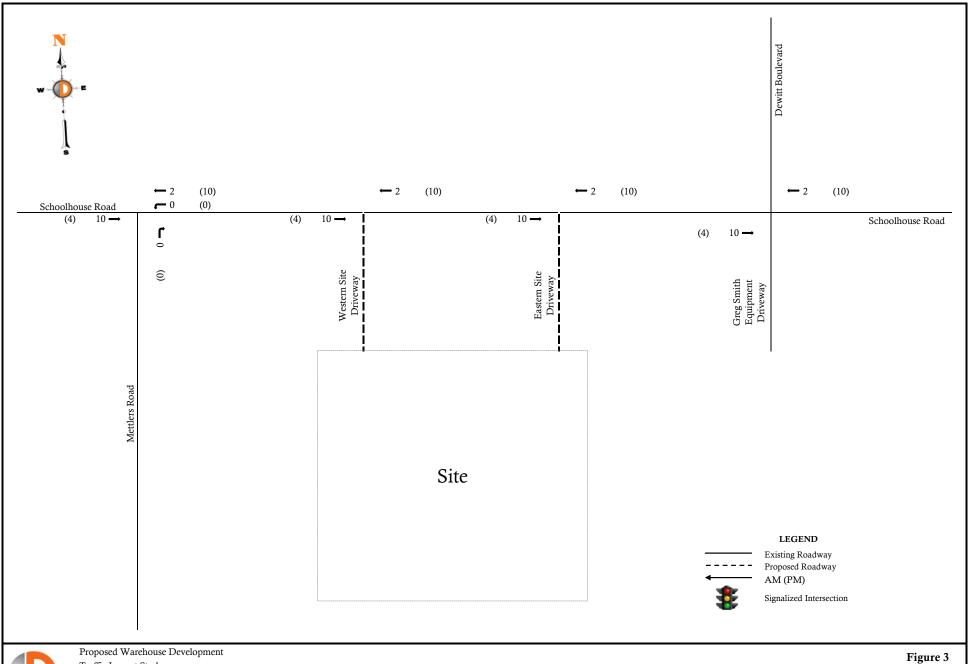


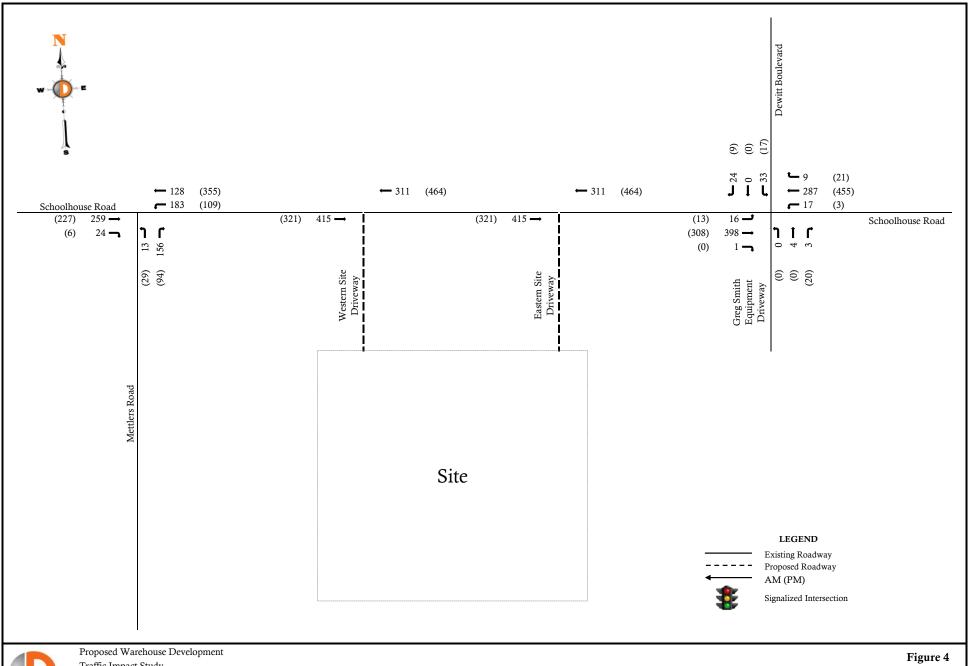




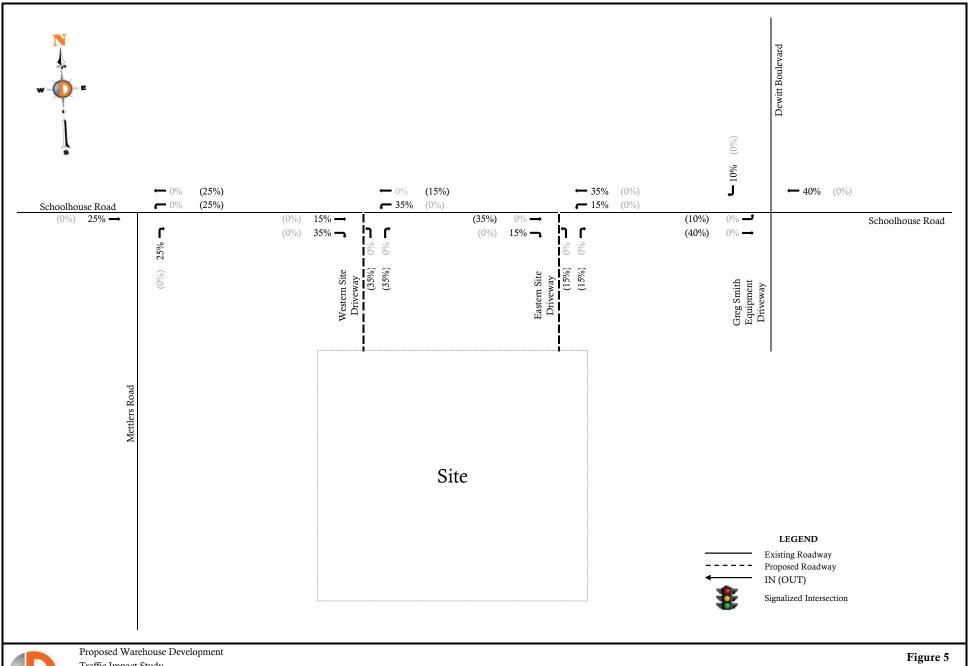
Proposed Warehouse Development Traffic Impact Study 3566-99-005T



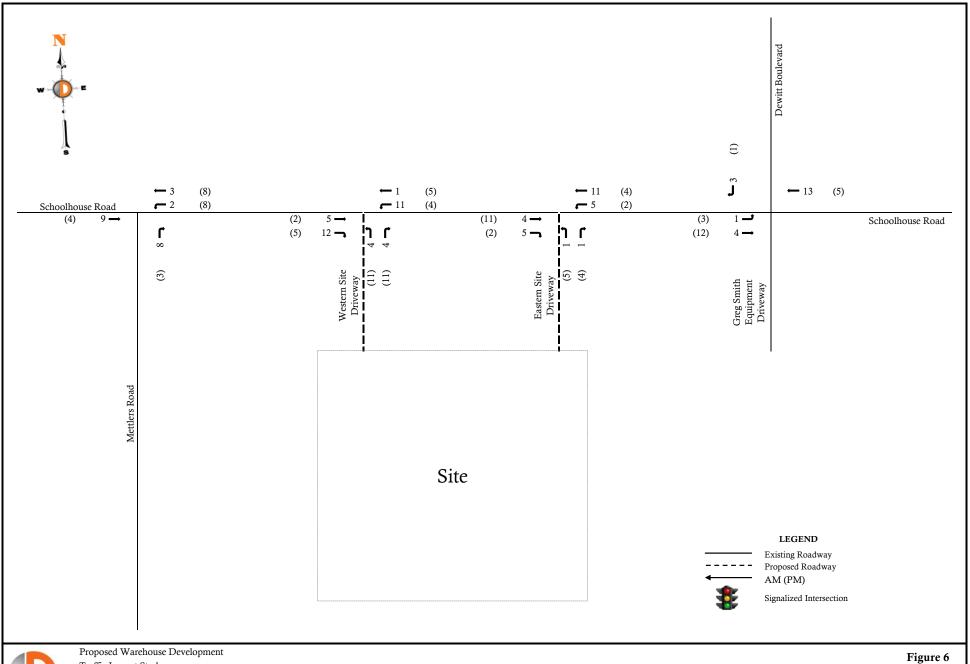


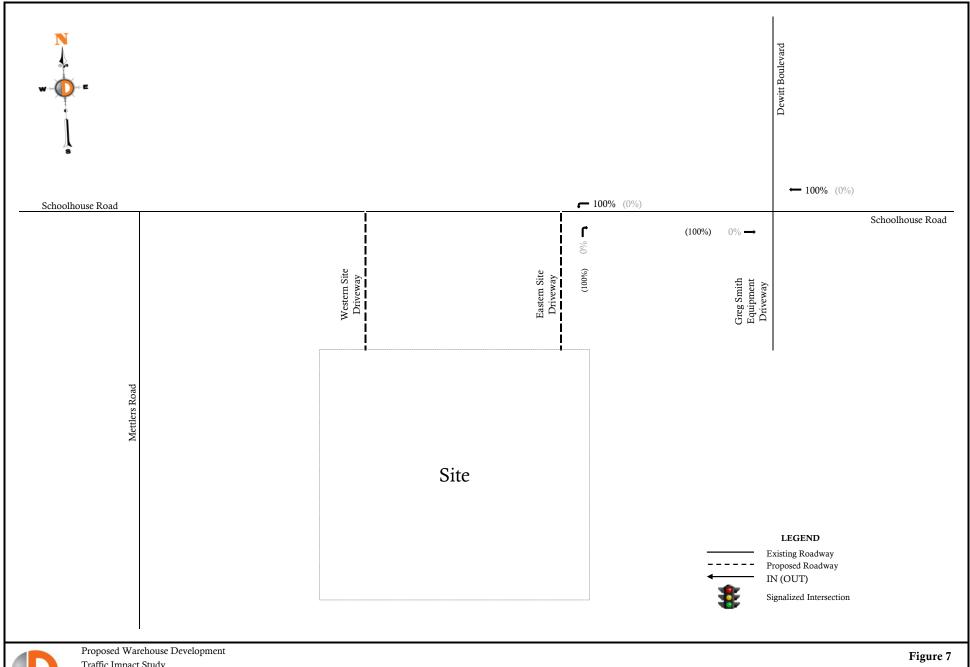


Proposed Warehouse Developmen Traffic Impact Study 3566-99-005T



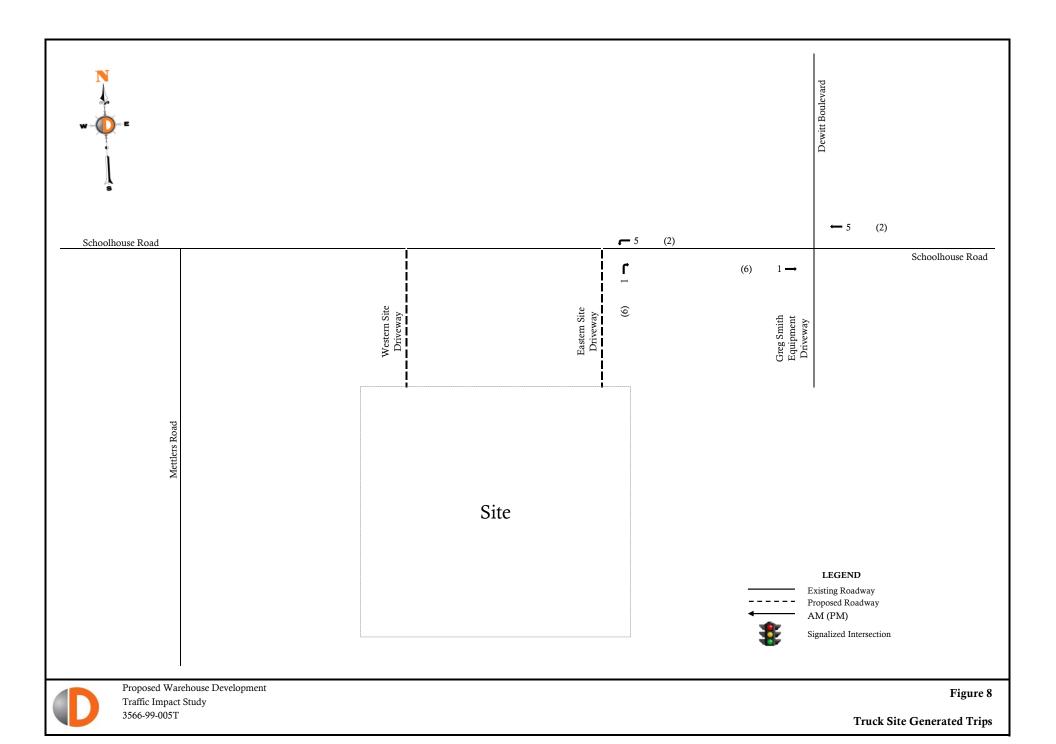
**Percent Distribution** (Car Trips)

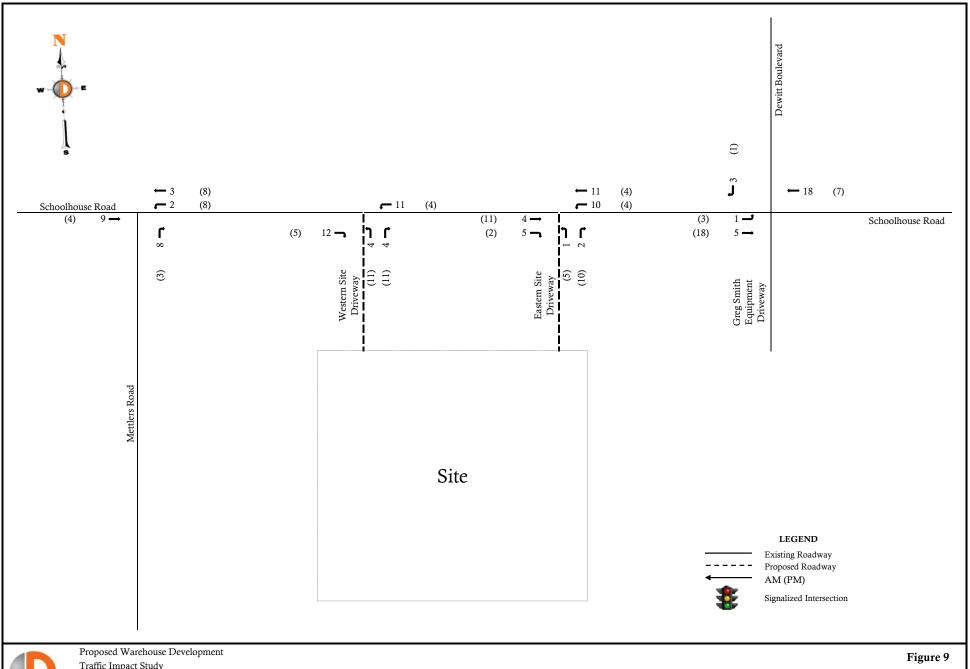


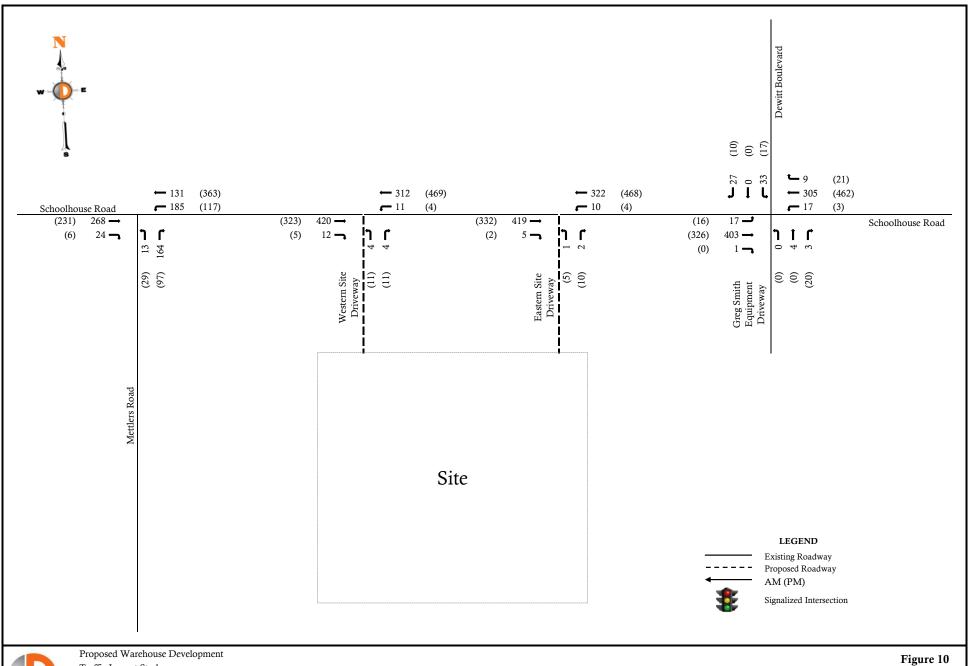


Proposed Warehouse Development Traffic Impact Study 3566-99-005T

Percent Distribution
(Truck Trips)







Appendix B Traffic Counts

# Dynamic Traffic, LLC

1904 Main Street, Lake Como, NJ 07719 245 Main Street - Suite 110, Chester, NJ 07930 732-681-0760

N/S: Mettlers Rd Site Code : 00000000 Town/County: Franklin/Somerset Start Date : 1/27/2022

Job #: 3566-99-006T Page No : 1

% Trucks (TT)

0.2

					Groups	Printed	l- Cars	- Truck	s (SU)	- Trucks	(TT)					
		Scho	olhouse	Road				olhous				Me	ttlers R	oad		
		E	astbou	nd			٧	Vestbou	ınd			N	orthbou	ınd		
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
07:00 AM	0	37	9	0	46	40	15	0	0	55	0	0	20	0	20	121
07:15 AM	0	48	14	0	62	107	19	0	0	126	3	0	16	0	19	207
07:30 AM	0	54	2	0	56	46	32	0	0	78	6	0	42	0	48	182
07:45 AM	0	68	2	0	70	14	40	0	0	54	3	0	71	0	74	198
Total	0	207	27	0	234	207	106	0	0	313	12	0	149	0	161	708
08:00 AM	0	57	5	0	62	10	30	0	0	40	1	0	22	0	23	125
08:15 AM	0	78	7	0	85	14	36	0	0	50	4	0	35	0	39	174
08:30 AM	0	61	6	0	67	13	40	0	0	53	5	0	19	0	24	144
08:45 AM	0	49	4	0	53	10	32	0	0	42	8	0	17	0	25	120
Total	0	245	22	0	267	47	138	0	0	185	18	0	93	0	111	563
*** BREAK ***																
04:30 PM	0	43	0	0	43	21	93	0	0	114	7	0	24	0	31	188
04:45 PM	0	53	3	0	56	16	67	0	0	83	7	0	22	0	29	168
Total	0	96	3	0	99	37	160	0	0	197	14	0	46	0	60	356
05:00 PM	0	50	2	0	52	39	77	0	0	116	9	0	23	0	32	200
05:15 PM	0	45	1	0	46	29	77	0	0	106	5	0	22	0	27	179
05:30 PM	0	44	3	0	47	21	50	0	0	71	5	0	17	0	22	140
05:45 PM	0	41	3	0	44	24	59	0	0	83	6	0	18	0	24	151
Total	0	180	9	0	189	113	263	0	0	376	25	0	80	0	105	670
06:00 PM	0	46	3	0	49	20	64	0	0	84	7	0	5	0	12	145
06:15 PM	0	30	2	0	32	9	52	0	0	61	6	0	9	0	15	108
Grand Total	0	804	66	0	870	433	783	0	0	1216	82	0	382	0	464	2550
Apprch %	0	92.4	7.6	0		35.6	64.4	0	0		17.7	0	82.3	0		
Total %	0	31.5	2.6	0	34.1	17	30.7	0	0	47.7	3.2	0	15	0	18.2	
Cars	0	798	64	0	862	426	772	0	0	1198	82	0	378	0	460	2520
% Cars	0	99.3	97	0	99.1	98.4	98.6	0	0	98.5	100	0	99	0	99.1	98.8
Trucks (SU)	0	4	2	0	6	6	8	0	0	14	0	0	4	0	4	24
% Trucks (SU)	0	0.5	3	0	0.7	1.4	1_	0	0	1.2	0	0	1_	0	0.9	0.9
Trucks (TT)	0	2	0	0	2	1	3	0	0	4	0	0	0	0	0	6

0.2 0.2

0.4

0.3

0.2

## Dynamic Traffic, LLC 1904 Main Street, Lake Como, NJ 07719

1904 Main Street, Lake Como, NJ 07719 245 Main Street - Suite 110, Chester, NJ 07930 732-681-0760

E/W: Schoolhouse Rd File Name: Schoolhouse Rd & Dewitt Blvd-Dway - AMPM

N/S: Dway/Dewitt Blvd Site Code : 00000000 Town/County: Franklin/Somerset Start Date : 1/27/2022

Job #: 3566-99-006T Page No : 1

						G	roups	Print	ed- C	ars - Tr	ucks	(SU) -	Truc	ks (TT	)						
	;	Schoo	lhous	e Roa	ad				se Roa					Drivev			Dewi	tt Boı	ılevar	d	
		E	astbou	und			W	estbo	und			No	rthbo	und			So	uthbo	und		
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
07:00 AM	0	51	0	0	51	0	60	1	0	61	0	0	0	0	0	4	0	2	0	6	118
07:15 AM	2	66	0	0	68	0	110	0	0	110	0	0	0	0	0	6	0	13	0	19	197
07:30 AM	8	98	0	0	106	5	69	4	0	78	0	0	0	0	0	12	0	3	0	15	199
07:45 AM	3	132	1_	0	136	10	48	4	0	62	0	0	3	0	3	3	0	3	0	6	207
Total	13	347	1	0	361	15	287	9	0	311	0	0	3	0	3	25	0	21	0	46	721
						ı					1										
08:00 AM	2	79	0	0	81	1	39	1	0	41	0	4	0	0	4	11	0	4	0	15	141
08:15 AM	0	122	0	0	122	0	42	9	0	51	0	0	0	0	0	6	0	2	0	8	181
08:30 AM	2	72	1	0	75	1	51	5	0	57	0	0	1	0	1	3	0	1	0	4	137
_08:45 AM	2	73	0	0	75	0	46	5	0	51	0	0	1_	0	1	0	0	1_	0	1_	128
Total	6	346	1	0	353	2	178	20	0	200	0	4	2	0	6	20	0	8	0	28	587
*** BREAK	***																				
04:30 PM	6	75	0	0	81	1	124	9	0	134	0	0	12	0	12	1	0	1	0	2	229
OALAE DIM	2	71	^	0	74	4	0.4	_	^	00	0	0	^	0	0	2	0	2	0	_	160

00.43 AIVI		13			13		40			JI						U				l l	120
Total	6	346	1	0	353	2	178	20	0	200	0	4	2	0	6	20	0	8	0	28	587
*** BREAK	***																				
04:30 PM	6	75	0	0	81	1	124	9	0	134	0	0	12	0	12	1	0	1	0	2	229
04:45 PM	3	71	0	0	74	1	84	5	0	90	0	0	0	0	0	3	0	2	0	5	169
Total	9	146	0	0	155	2	208	14	0	224	0	0	12	0	12	4	0	3	0	7	398
05:00 PM	0	80	0	0	80	1	121	2	0	124	0	0	7	0	7	5	0	2	0	7	218
05:15 PM	4	67	0	0	71	0	101	4	0	105	0	0	0	0	0	7	0	4	0	11	187
05:30 PM	0	62	0	0	62	0	84	6	0	90	0	0	0	0	0	10	0	2	0	12	164
05:45 PM	1	61	0	0	62	0	77	6	0	83	0	0	0	0	0	2	0	3	0	5	150
Total	5	270	0	0	275	1	383	18	0	402	0	0	7	0	7	24	0	11	0	35	719
06:00 PM	3	47	0	0	50	0	82	3	0	85	0	0	0	0	0	3	0	1	0	4	139
06:15 PM	5	36	0	0	41	0	59	4	0	63	0	0	0	0	0	3	0	3	0	6	110
<b>Grand Total</b>	41	1192	2	0	1235	20	1197	68	0	1285	0	4	24	0	28	79	0	47	0	126	2674
Apprch %	3.3	96.5	0.2	0		1.6	93.2	5.3	0		0	14.3	85.7	0		62.7	0	37.3	0		
Total %	1.5	44.6	0.1	0	46.2	0.7	44.8	2.5	0	48.1	0	0.1	0.9	0	1	3	0	1.8	0	4.7	
Cars	39	1184	2	0	1225	15	1178	65	0	1258	0	4	17	0	21	77	0	45	0	122	2626
% Cars	95.1	99.3	100	0	99.2	75	98.4	95.6	0	97.9	0	100	70.8	0	75	97.5	0	95.7	0	96.8	98.2
Trucks (SU)	2	5	0	0	7	3	16	3	0	22	0	0	3	0	3	2	0	2	0	4	36
% Trucks (SU)	4.9	0.4	0	0	0.6	15	1.3	4.4	0	1.7	0	0	12.5	0	10.7	2.5	0	4.3	0	3.2	1.3
Trucks (TT)	0	3	0	0	3	2	3	0	0	5	0	0	4	0	4	0	0	0	0	0	12
% Trucks (TT)	0	0.3	0	0	0.2	10	0.3	0	0	0.4	0	0	16.7	0	14.3	0	0	0	0	0	0.4

Appendix C Capacity Analysis

Intersection						
Int Delay, s/veh	5					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	1→	רטוע	ሻ	<u>₩</u>	Y	HOIL
Traffic Vol, veh/h	240	23	177	121	13	151
Future Vol, veh/h	240	23	177	121	13	151
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	- Olop	None
Storage Length	_	-	80	-	0	-
Veh in Median Storage,	# 0	_	-	0	0	_
Grade, %	0	_	_	0	2	_
Peak Hour Factor	86	86	86	86	86	86
Heavy Vehicles, %	1	0	2	3	0	3
Mymt Flow	279	27	206	141	15	176
IVIVIII I IOW	213	LI	200	171	10	170
Major/Minor N	/lajor1	N	Major2	ı	Minor1	
Conflicting Flow All	0	0	306	0	846	293
Stage 1	-	-	-	-	293	-
Stage 2	-	-	-	-	553	-
Critical Hdwy	-	-	4.12	-	6.8	6.43
Critical Hdwy Stg 1	-	-	-	-	5.8	-
Critical Hdwy Stg 2	-	-	-	-	5.8	-
Follow-up Hdwy	-	_	2.218	-		3.327
Pot Cap-1 Maneuver	_	-	1255	-	305	732
Stage 1	-	-	-	-	737	-
Stage 2	-	-	_	_	546	_
Platoon blocked, %	_	_		_	J 10	
Mov Cap-1 Maneuver	_	_	1255	_	255	732
Mov Cap-1 Maneuver	_	_	1200	<u>-</u>	255	-
Stage 1			_		737	_
Stage 2	_	-	_	_	456	_
Staye Z	_	<u>-</u>	<u>-</u>	<u>-</u>	400	<u>-</u>
Approach	EB		WB		NB	
HCM Control Delay, s	0		5		13	
HCM LOS					В	
Name of the state		UDL 4	CDT	EDD	VA/DI	MOT
Minor Lane/Major Mvmi	ι Γ	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		637	-	-	1255	-
HCM Lane V/C Ratio		0.299	-	-	0.164	-
HCM Control Delay (s)		13	-	-	8.4	-
HCM Lane LOS		В	-	-	Α	-
HCM 95th %tile Q(veh)		1.3	-	-	0.6	-

Intersection						
Int Delay, s/veh	3.1					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	\$	LDIN	YVDL	<u>₩</u>	₩.	אטו
Traffic Vol, veh/h	215	6	105	334	28	91
Future Vol, veh/h	215	6	105	334	28	91
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-		-	None	Stop -	None
Storage Length	_	-	80	-	0	-
Veh in Median Storage, #			-	0	0	-
Grade, %	# 0 0	-	-	0	2	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	92	92	92	92	92
Mvmt Flow	234	7	114	363	30	99
IVIVIIIL FIOW	234	1	114	<b>303</b>	30	99
Major/Minor Ma	ajor1	N	Major2	N	/linor1	
Conflicting Flow All	0	0	241	0	829	238
Stage 1	-	-		-	238	-
Stage 2	_	-	-	_	591	_
Critical Hdwy	_	-	4.1	_	6.8	6.4
Critical Hdwy Stg 1	_	-		_	5.8	- 0.4
Critical Hdwy Stg 2	_	-	_	_	5.8	_
Follow-up Hdwy	_	-	2.2	_	3.5	3.3
Pot Cap-1 Maneuver		_	1337	_	313	795
Stage 1	_	-	1001	_	785	195
Stage 2		-	-		522	
Platoon blocked, %	-	-	-	-	JZZ	-
		-	1337		200	795
Mov Cap-1 Maneuver	-	-		-	286	
Mov Cap-2 Maneuver	-	-	-	-	286	-
Stage 1	-	-	-	-	785	-
Stage 2	-	-	-	-	478	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		1.9		13.3	
HCM LOS	U		1.9		13.3 B	
I IOIVI LOS					D	
Minor Lane/Major Mvmt	N	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		560	-		1337	-
HCM Lane V/C Ratio		0.231	-		0.085	-
HCM Control Delay (s)		13.3	-	-	7.9	-
HCM Lane LOS		В	-	-	Α	-
HCM 95th %tile Q(veh)		0.9	-	-	0.3	-
111. /00.10 Q(1011)		2.0			2.3	

Intersection						
Int Delay, s/veh	5.1					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	1		*	<b>↑</b>	Y	
Traffic Vol, veh/h	259	24	183	128	13	156
Future Vol, veh/h	259	24	183	128	13	156
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	80	-	0	-
Veh in Median Storage,	# 0	-	-	0	0	_
Grade, %	0	-	-	0	2	-
Peak Hour Factor	86	86	86	86	86	86
Heavy Vehicles, %	1	0	2	3	0	3
Mymt Flow	301	28	213	149	15	181
	001		10	. 10	10	.01
	ajor1		Major2		Minor1	
Conflicting Flow All	0	0	329	0	890	315
Stage 1	-	-	-	-	315	-
Stage 2	-	-	-	-	575	-
Critical Hdwy	-	-	4.12	-	6.8	6.43
Critical Hdwy Stg 1	-	-	-	-	5.8	-
Critical Hdwy Stg 2	-	-	-	-	5.8	-
Follow-up Hdwy	-	-	2.218	-	3.5	3.327
Pot Cap-1 Maneuver	-	-	1231	-	286	711
Stage 1	-	-	-	-	719	-
Stage 2	_	-	-	-	532	_
Platoon blocked, %	_	-		_		
Mov Cap-1 Maneuver	_	_	1231	_	237	711
Mov Cap-2 Maneuver	_	_	-	_	237	-
Stage 1	_		_		719	_
Stage 2			_	_	440	_
Olaye Z		_	_	_	770	_
Approach	EB		WB		NB	
HCM Control Delay, s	0		5		13.6	
HCM LOS					В	
Minor Lang/Major Mumt		JDI 51	EDT	EDD	\\/DI	\\/DT
Minor Lane/Major Mvmt	ľ	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		616	-	-	1231	-
HCM Lane V/C Ratio		0.319	-		0.173	-
HCM Control Delay (s)		13.6	-	-	8.5	-
HCM Lane LOS		В	-	-	Α	-
HCM 95th %tile Q(veh)		1.4	-	-	0.6	-
HOW JOHN JOHN Q(VEII)		1.7			0.0	

Intersection						
Int Delay, s/veh	3.2					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	1		ሻ	<b>↑</b>	¥	
Traffic Vol, veh/h	227	6	109	355	29	94
Future Vol, veh/h	227	6	109	355	29	94
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	_		-	None	-	None
Storage Length	_	-	80	-	0	-
Veh in Median Storage	e, # 0	-	-	0	0	_
Grade, %	0	_	_	0	2	_
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	0	0	1	0	0
Mvmt Flow	247	7	118	386	32	102
WWIIICTIOW	271		110	000	02	102
	Major1	N	Major2	N	Minor1	
Conflicting Flow All	0	0	254	0	873	251
Stage 1	-	-	-	-	251	-
Stage 2	-	-	-	-	622	-
Critical Hdwy	-	-	4.1	-	6.8	6.4
Critical Hdwy Stg 1	-	-	-	-	5.8	-
Critical Hdwy Stg 2	-	-	-	-	5.8	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	1323	-	293	782
Stage 1	-	-	-	-	774	-
Stage 2	-	-	-	-	503	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1323	_	267	782
Mov Cap-2 Maneuver	_	_	-	_	267	-
Stage 1	_	_	_	_	774	_
Stage 2	_	_	_	_	458	_
Olago 2					100	
Approach	EB		WB		NB	
HCM Control Delay, s	0		1.9		13.9	
HCM LOS					В	
Minor Lane/Major Mvm	nt t	NBLn1	EBT	EBR	WBL	WBT
	IL I					
Capacity (veh/h) HCM Lane V/C Ratio		538	-	-	1323	-
		0.249	-	-	0.09	-
HCM Long LOS		13.9	-	-	8	-
HCM Of the % tills O(yoh)	\	B 1	-	-	0.3	-
HCM 95th %tile Q(veh)	)	I	-	-	0.3	-

Intersection						
Int Delay, s/veh	5.1					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	1→	וכם	ሻ	<u>₩</u>	Y	אפא
Traffic Vol, veh/h	268	24	185	131	13	164
Future Vol, veh/h	268	24	185	131	13	164
Conflicting Peds, #/hr	200	0	100	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized		None		None		None
	-		80		-	
Storage Length	- 4 0	-		-	0	-
Veh in Median Storage,		-	-	0	0	-
Grade, %	0	-	-	0	2	-
Peak Hour Factor	86	86	86	86	86	86
Heavy Vehicles, %	0	0	2	3	0	2
Mvmt Flow	312	28	215	152	15	191
Major/Minor N	/lajor1	N	Major2	_	Minor1	
Conflicting Flow All	0	0	340	0	908	326
Stage 1	-	U	340		326	320
		-	-	-	582	-
Stage 2	-	-	4.40	-		
Critical Hdwy	-	-	4.12	-	6.8	6.42
Critical Hdwy Stg 1	-	-	-	-	5.8	-
Critical Hdwy Stg 2	-	-	-	-	5.8	-
Follow-up Hdwy	-		2.218	-		3.318
Pot Cap-1 Maneuver	-	-	1219	-	279	702
Stage 1	-	-	-	-	710	-
Stage 2	-	-	-	-	527	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1219	-	230	702
Mov Cap-2 Maneuver	-	-	-	-	230	-
Stage 1	-	-	-	-	710	-
Stage 2	-	-	-	-	434	-
0 -						
Approach	EB		WB		NB	
HCM Control Delay, s	0		5		13.9	
HCM LOS					В	
Minor Long/Maior M		JDI 4	CDT	EDD	WDI	WDT
Minor Lane/Major Mvmt	t 1	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		610	-		1219	-
HCM Lane V/C Ratio		0.337	-	-	0.176	-
HCM Control Delay (s)		13.9	-	-	8.6	-
HCM Lane LOS		В	-	-	Α	-
HCM 95th %tile Q(veh)		1.5	-	-	0.6	-

Intersection						
Int Delay, s/veh	3.3					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	1>		ሻ	<b>↑</b>	Y	
Traffic Vol, veh/h	231	6	117	363	29	97
Future Vol, veh/h	231	6	117	363	29	97
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	
Storage Length	_	-	80	-	0	-
Veh in Median Storage	, # 0	-	-	0	0	_
Grade, %	0	_	_	0	2	_
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	1	0	0	1	0	0
Mvmt Flow	251	7	127	395	32	105
IVIVIIIL I IOVV	201	T	121	000	JZ	100
Major/Minor	Major1	N	Major2	<u> </u>	Minor1	
Conflicting Flow All	0	0	258	0	904	255
Stage 1	-	-	-	-	255	-
Stage 2	-	-	-	-	649	-
Critical Hdwy	-	-	4.1	-	6.8	6.4
Critical Hdwy Stg 1	-	_	_	-	5.8	-
Critical Hdwy Stg 2	-	-	-	-	5.8	_
Follow-up Hdwy	-	_	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	_	-	1318	-	280	777
Stage 1	_	_		_	770	-
Stage 2	_	_	_	_	487	_
Platoon blocked, %	_	_		_	.01	
Mov Cap-1 Maneuver	_		1318	_	253	777
Mov Cap-1 Maneuver	_		1010	-	253	- 111
Stage 1		-	-		770	-
	-	-	-	-	440	
Stage 2	-	-	-	<del>-</del>	440	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		2		14.2	
HCM LOS			_		В	
1.5111 200						
Minor Lane/Major Mvm	nt I	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		526	-	-	1318	-
HCM Lane V/C Ratio		0.26	-	-	0.096	-
HCM Control Delay (s)		14.2	-	-	8	-
HCM Lane LOS		В	-	-	Α	-
HCM 95th %tile Q(veh)	)	1	-	-	0.3	-

Intersection												
Int Delay, s/veh	1.7											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	Y	<b>↑</b>			4			4			4	
Traffic Vol, veh/h	15	375	1	16	275	9	0	4	3	32	0	23
Future Vol, veh/h	15	375	1	16	275	9	0	4	3	32	0	23
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	80	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage	e, # -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	-2	-	-	-2	-	-	2	-
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90
Heavy Vehicles, %	7	1	0	6	3	11	0	0	33	3	0	4
Mvmt Flow	17	417	1	18	306	10	0	4	3	36	0	26
Major/Minor I	Major1		ı	Major2		ı	Minor1			Minor2		
Conflicting Flow All	316	0	0	418	0	0	812	804	418	802	799	311
Stage 1	-	-	-	-	-	-	452	452	-	347	347	-
Stage 2	_	-	-	_	_	-	360	352	-	455	452	_
Critical Hdwy	4.17	-	_	4.16	-	-	6.7	6.1	6.33	7.53	6.9	6.44
Critical Hdwy Stg 1	-	-	-	-	-	-	5.7	5.1	-	6.53	5.9	-
Critical Hdwy Stg 2	-	-	-	_	-	-	5.7	5.1	-	6.53	5.9	-
Follow-up Hdwy	2.263	-	-	2.254	-	-	3.5	4	3.597	3.527	4	3.336
Pot Cap-1 Maneuver	1216	-	-	1120	_	_	328	349	587	275	294	712
Stage 1	-	-	-	_	-	-	621	603	-	642	614	-
Stage 2	_	-	-	-	-	_	689	660	-	554	546	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1216	-	-	1120	-	-	308	337	587	264	284	712
Mov Cap-2 Maneuver	-	-	-	-	-	-	308	337	-	264	284	-
Stage 1	-	_	-	-	-	-	612	595	-	633	602	-
Stage 2	-	-	-	-	-	-	651	647	-	539	538	-
Ü												
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.3			0.4			13.9			17.1		
HCM LOS							В			С		
Minor Lane/Major Mvm	nt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1			
Capacity (veh/h)		412			-		-	-	358			
HCM Lane V/C Ratio		0.019		_		0.016	_		0.171			
HCM Control Delay (s)		13.9	8	_	-	8.3	0	_	17.1			
HCM Lane LOS		В	A	_	_	Α	A	_	C			
HCM 95th %tile Q(veh)	)	0.1	0	_	-	0	-	_	0.6			
		<b>V.</b> 1							0.0			

Intersection												
Int Delay, s/veh	1											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	)	<u></u>	LDIX	VVDL	4	WDIX	INDL	4	NDIX	ODL	4	ODIN
Traffic Vol, veh/h	13	293	0	3	430	20	0	0	19	16	0	9
Future Vol, veh/h	13	293	0	3	430	20	0	0	19	16	0	9
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	80	_	-	_	_	-	_	_	-	_	_	-
Veh in Median Storage		0	-	_	0	-	_	0	_	_	0	_
Grade, %	-, <i>''</i>	0	-	_	-2	-	_	-2	_	-	2	_
Peak Hour Factor	88	88	88	88	88	88	88	88	88	88	88	88
Heavy Vehicles, %	8	1	0	0	1	5	0	0	26	6	0	11
Mvmt Flow	15	333	0	3	489	23	0	0	22	18	0	10
Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	512	0		333	0	0	875	881	333	881	870	501
Stage 1	-	-	_	-	-	-	363	363	-	507	507	-
Stage 2	_	_	-	_	_	_	512	518	<u>-</u>	374	363	_
Critical Hdwy	4.18	_	_	4.1	_	_	6.7	6.1	6.26	7.56	6.9	6.51
Critical Hdwy Stg 1	-	-	_	-	-	_	5.7	5.1	-	6.56	5.9	-
Critical Hdwy Stg 2	-	-	-	-	-	-	5.7	5.1	-	6.56	5.9	-
Follow-up Hdwy	2.272	-	-	2.2	-	-	3.5	4	3.534	3.554	4	3.399
Pot Cap-1 Maneuver	1023	-	0	1238	-	-	300	317	669	238	265	537
Stage 1	_	-	0	-	-	-	687	654	-	511	513	-
Stage 2	-	-	0	-	-	-	580	568	-	613	603	-
Platoon blocked, %		-			-	-						
Mov Cap-1 Maneuver	1023	-	-	1238	-	-	290	311	669	227	260	537
Mov Cap-2 Maneuver	-	-	-	-	-	-	290	311	-	227	260	-
Stage 1	-	-	-	-	-	-	677	644	-	503	511	-
Stage 2	-	-	-	-	-	-	567	566	-	585	594	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.4			0.1			10.6			18.9		
HCM LOS	<b>∪.</b> ⊣			J. 1			В			C		
Minor Lane/Major Mvm	nt I	NBLn1	EBL	EBT	WBL	WBT	WBR S	SBLn1				
Capacity (veh/h)		669	1023		1238	-	-	287				
HCM Lane V/C Ratio		0.032			0.003	_		0.099				
HCM Control Delay (s)		10.6	8.6	-	7.9	0	-	18.9				
HCM Lane LOS		В	Α	_	Α.	A	_	C				
HCM 95th %tile Q(veh)		0.1	0	-	0	-	-	0.3				
70th Q(VOII)		J. 1						5.5				

Intersection												
Int Delay, s/veh	1.8											
		БОТ	<b>EDD</b>	MDI	MOT	WDD	NDI	NDT	NDD	ODI	ODT	000
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7				4			4			4	
Traffic Vol, veh/h	16	398	1	17	287	9	0	4	3	33	0	24
Future Vol, veh/h	16	398	1	17	287	9	0	4	3	33	0	24
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	80	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage	э,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	-2	-	-	-2	-	-	2	-
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90
Heavy Vehicles, %	7	1	0	6	3	11	0	0	33	3	0	4
Mvmt Flow	18	442	1	19	319	10	0	4	3	37	0	27
Major/Minor	Major1			Major2		_ 1	Minor1			Minor2		
Conflicting Flow All	329	0	0	443	0	0	855	846	443	844	841	324
Stage 1	329	-	U	443	-	-	479	479	443	362	362	324
							376	367	-	482	479	-
Stage 2	4.17	-	-	4.16	-	-	6.7	6.1	6.33	7.53	6.9	6.44
Critical Hdwy	4.17	-			-	-		5.1		6.53		0.44
Critical Hdwy Stg 1	-	-	-	-	-	-	5.7		-		5.9	-
Critical Hdwy Stg 2	- 0.000	-	-	0.054	-	-	5.7	5.1	2 507	6.53	5.9	2 226
Follow-up Hdwy	2.263	-	-	2.254	-	-	3.5					3.336
Pot Cap-1 Maneuver	1203	-	-	1096	-	-	308	331	568	257	276	700
Stage 1	-	-	-	-	-	-	603	589	-	629	604	-
Stage 2	-	-	-	-	-	-	677	652	-	534	529	-
Platoon blocked, %	4000	-	-	4000	-	-	000	0.40	F00	0.40	000	700
Mov Cap-1 Maneuver		-	-	1096	-	-	288	319	568	246	266	700
Mov Cap-2 Maneuver	-	-	-	-	-	-	288	319	-	246	266	-
Stage 1	-	-	-	-	-	-	594	580	-	620	591	-
Stage 2	-	-	-	-	_	-	638	638	-	519	521	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.3			0.5			14.3			18.1		
HCM LOS							В			С		
Minor Lane/Major Mvn	ot N	NBLn1	EBL	EPT	EBR	WBL	WBT	WBR	CDI n1			
	iii T			EBT	EDK		VVDI	WDK.				
Capacity (veh/h)		393	1203	-	-	1096	-	-	338			
HCM Lane V/C Ratio			0.015	-	-	0.017	-		0.187			
HCM Control Delay (s)		14.3	8	-	-	8.3	0	-	18.1			
HCM Lane LOS	,	В	A	-	-	A	Α	-	С			
HCM 95th %tile Q(veh	)	0.1	0	-	-	0.1	-	-	0.7			

Intersection
Int Delay, s/veh 1
Movement EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL SBT SB
Lane Configurations † †
Traffic Vol, veh/h 13 308 0 3 455 21 0 0 20 17 0
Future Vol, veh/h 13 308 0 3 455 21 0 0 20 17 0
Conflicting Peds, #/hr 0 0 0 0 0 0 0 0 0 0
Sign Control Free Free Free Free Free Free Stop Stop Stop Stop Stop Stop
RT Channelized None None None
Storage Length 80
Veh in Median Storage, # - 0 0 0
Grade, % - 022
Peak Hour Factor 88 88 88 88 88 88 88 88 88 88 88 88 88
Heavy Vehicles, % 8 1 0 0 1 5 0 0 26 6 0 1
Mvmt Flow 15 350 0 3 517 24 0 0 23 19 0 1
Major/Minor Major1 Major2 Minor1 Minor2
Conflicting Flow All 541 0 - 350 0 0 920 927 350 927 915 52
Stage 1 380 380 - 535 535
Stage 2 540 547 - 392 380
Critical Hdwy 4.18 4.1 6.7 6.1 6.26 7.56 6.9 6.5
Critical Hdwy Stg 1 5.7 5.1 - 6.56 5.9
Critical Hdwy Stg 2 5.7 5.1 - 6.56 5.9
Follow-up Hdwy 2.272 2.2 3.5 4 3.534 3.554 4 3.39
Pot Cap-1 Maneuver 998 - 0 1220 281 300 655 221 248 51
Stage 1 - 0 674 644 - 492 497
Stage 2 0 562 553 - 598 592
Platoon blocked, %
Mov Cap-1 Maneuver 998 1220 271 294 655 210 243 51
Mov Cap-2 Maneuver 271 294 - 210 243
Stage 1 664 634 - 485 495
Stage 2 549 551 - 569 583
Approach EB WB NB SB
HCM Control Delay, s 0.4 0 10.7 20.3
HCM LOS B C
HOW LOO
Mineral and Marine Marine M. D. L. A. E. D. E. D. L. M. D. L. M. D. O. D. A.
Minor Lane/Major Mvmt NBLn1 EBL EBT WBL WBT WBR SBLn1
Capacity (veh/h) 655 998 - 1220 264
HCM Lane V/C Ratio 0.035 0.015 - 0.003 0.112
HCM Control Delay (s) 10.7 8.7 - 8 0 - 20.3
HCM Lane LOS B A - A A - C
HCM 95th %tile Q(veh) 0.1 0 - 0 - 0.4

Int Delay, siveh   1.8	Intersection												
Movement		1.8											
Lane Configurations		FRI	FRT	FRR	WRI	WRT	WRR	NRI	NRT	NRR	SRI	SRT	SRR
Traffic Vol, veh/h				LDI	VVDL		וטייי	NDL		NDI	ODL		ODIN
Future Vol, veh/h Conflicting Peds, #/hr O O O O O O O O O O O O O O O O O O O				1	17		0	٥		2	22		27
Conflicting Peds, #/hr	•			-									
Sign Control         Free RTCANNOR         Free RTCANNOR         Free RTCANNOR         Free RTCANNOR         Stop None	· · · · · · · · · · · · · · · · · · ·												
RT Channelized	•												
Storage Length													
Veh in Median Storage, # - 0         - 0         - 0         - 0         - 0         - 0         - 0         - 0         - 0         - 0         - 2         - 3         0         4         4         4         9         9         90 <th< td=""><td></td><td></td><td>_</td><td>NOHE</td><td>_</td><td>-</td><td>None</td><td></td><td>_</td><td>None</td><td>-</td><td>_</td><td>NOHE</td></th<>			_	NOHE	_	-	None		_	None	-	_	NOHE
Grade, %			0	-	-	0	-		_	-	-	_	-
Peak Hour Factor         90		;, <del>#</del> -											
Heavy Vehicles, %   6		- 00											
Mynt Flow         19         448         1         19         339         10         0         4         3         37         0         30           Major/Minor         Major1         Major2         Minor1         Minor2           Conflicting Flow All         349         0         0         449         0         0         884         874         449         872         869         344           Stage 1         -         -         -         -         -         487         487         -         382         382         -           Critical Hdwy Stg 2         -         -         -         4.16         -         -         6.7         6.1         6.33         7.53         6.9         6.44           Critical Hdwy Stg 1         -         -         -         -         5.7         5.1         -         6.53         5.9         -         Critical Hdwy Stg 2         -         -         -         5.7         5.1         -         6.53         5.9         -         Critical Hdwy Stg 2         -         -         -         5.7         5.1         -         6.53         5.9         -         Critical Hdwy Stg 2         -         -													
Major/Minor   Major1   Major2   Minor1   Minor2	· ·		-		-								
Conflicting Flow All 349 0 0 449 0 0 884 874 449 872 869 344  Stage 1	IVIVIIIL FIUW	19	440		19	339	10	U	4	J	31	U	30
Conflicting Flow All 349 0 0 449 0 0 884 874 449 872 869 344  Stage 1													
Stage 1	Major/Minor I	Major1		ا	Major2		ا	Minor1			Minor2		
Stage 1	Conflicting Flow All	349	0	0	449	0	0	884	874	449	872	869	344
Critical Hdwy       4.16       -       -       4.16       -       -       6.7       6.1       6.33       7.53       6.9       6.44         Critical Hdwy Stg 1       -       -       -       -       -       5.7       5.1       -       6.53       5.9       -         Critical Hdwy Stg 2       -       -       -       -       -       5.7       5.1       -       6.53       5.9       -         Follow-up Hdwy       2.254       -       -       2.254       -       -       3.5       4       3.597       3.527       4       3.336         Pot Cap-1 Maneuver       1188       -       1091       -       -       296       320       564       245       265       681         Stage 1       -       -       -       -       -       597       585       -       612       591       -         Stage 2       -       -       -       -       -       275       308       564       234       255       681         Mov Cap-1 Maneuver       1188       -       1091       -       -       275       308       564       234       255       681	Stage 1	-	-	-	-	-	-	487	487	-	382	382	-
Critical Hdwy       4.16       -       -       4.16       -       -       6.7       6.1       6.33       7.53       6.9       6.44         Critical Hdwy Stg 1       -       -       -       -       -       5.7       5.1       -       6.53       5.9       -         Critical Hdwy Stg 2       -       -       -       -       5.7       5.1       -       6.53       5.9       -         Follow-up Hdwy       2.254       -       -       2.254       -       -       3.5       4       3.597       3.527       4       3.336         Pot Cap-1 Maneuver       1188       -       1091       -       -       296       320       564       245       265       681         Stage 1       -       -       -       -       -       661       640       -       528       525       -         Platon blocked, %       -       -       -       -       -       275       308       564       234       255       681         Mov Cap-2 Maneuver       -       -       -       -       -       275       308       -       234       255       -       -		-	-	-	-	-	-	397	387	-	490	487	-
Critical Hdwy Stg 1         -         -         -         -         5.7         5.1         -         6.53         5.9         -           Critical Hdwy Stg 2         -         -         -         -         5.7         5.1         -         6.53         5.9         -           Follow-up Hdwy         2.254         -         -         2.254         -         -         3.5         4         3.597         3.527         4         3.336           Pot Cap-1 Maneuver         1188         -         1091         -         -         296         320         564         245         265         681           Stage 1         -         -         -         -         -         661         640         -         528         525         -           Platoon blocked, %         -         -         -         -         -         -         -         -         528         525         -           Platoon blocked, %         -         -         -         -         275         308         564         234         255         681           Mov Cap-2 Maneuver         -         -         -         -         587         576		4.16	-	-	4.16	-	-	6.7	6.1	6.33	7.53	6.9	6.44
Critical Hdwy Stg 2         -         -         -         -         5.7         5.1         -         6.53         5.9         -           Follow-up Hdwy         2.254         -         -         2.254         -         -         3.5         4         3.597         3.527         4         3.336           Pot Cap-1 Maneuver         1188         -         -         1091         -         -         296         320         564         245         265         681           Stage 1         -         -         -         -         -         597         585         -         612         591         -           Stage 2         -         -         -         -         -         661         640         -         528         525         -           Platoon blocked, %         -         -         -         -         -         -         -         -         -         528         525         -         -         -         -         -         -         -         275         308         564         234         255         681         -         -         -         -         -         -         -         - </td <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>5.7</td> <td>5.1</td> <td>-</td> <td>6.53</td> <td>5.9</td> <td>-</td>		-	-	-	-	-	-	5.7	5.1	-	6.53	5.9	-
Follow-up Hdwy 2.254 2.254 3.5 4 3.597 3.527 4 3.336  Pot Cap-1 Maneuver 1188 1091 296 320 564 245 265 681  Stage 1 597 585 - 612 591 -  Stage 2 661 640 - 528 525 -  Platoon blocked, %  Mov Cap-1 Maneuver 1188 1091 275 308 564 234 255 681  Mov Cap-2 Maneuver 587 576 - 602 578 -  Stage 1 587 576 - 602 578 -  Stage 2 618 626 - 512 517 -  Approach EB WB NB SB  HCM Control Delay, s 0.3 0.4 14.6 18.5  HCM LOS B C  Minor Lane/Major Mvmt NBLn1 EBL EBT EBR WBL WBT WBR SBLn1  Capacity (veh/h) 382 1188 - 1091 - 332  HCM Lane V/C Ratio 0.02 0.016 - 0.017 - 0.201  HCM Control Delay (s) 14.6 8.1 - 8.4 0 - 18.5  HCM Lane LOS B A A A - C		-	-	-	-	-	-	5.7	5.1	-	6.53	5.9	-
Stage 1         -         -         -         597         585         -         612         591         -           Stage 2         -         -         -         -         661         640         -         528         525         -           Platoon blocked, %         -<		2.254	-	-	2.254	-	-	3.5	4	3.597	3.527	4	3.336
Stage 1         -         -         -         -         597         585         -         612         591         -           Stage 2         -         -         -         -         661         640         -         528         525         -           Platoon blocked, %         -<		1188	-	-	1091	-	-	296	320	564	245	265	681
Stage 2       -       -       -       -       661       640       -       528       525       -         Platoon blocked, %       - <t< td=""><td></td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>597</td><td>585</td><td>-</td><td>612</td><td>591</td><td>-</td></t<>		-	-	-	-	-	-	597	585	-	612	591	-
Platoon blocked, %       -       <		-	-	-	-	-	-	661	640	-	528	525	-
Mov Cap-2 Maneuver         -         -         -         -         275         308         -         234         255         -           Stage 1         -         -         -         -         -         587         576         -         602         578         -           Stage 2         -         -         -         -         618         626         -         512         517         -           Approach         EB         WB         NB         NB         SB           HCM Control Delay, s         0.3         0.4         14.6         18.5           HCM Lane/Major Mvmt         NBLn1         EBL         EBT         EBR         WBL         WBT         WBR SBLn1           Capacity (veh/h)         382         1188         -         -         1091         -         -         332           HCM Lane V/C Ratio         0.02         0.016         -         -         0.017         -         -         0.201           HCM Control Delay (s)         14.6         8.1         -         -         8.4         0         -         18.5           HCM Lane LOS         B         A         -         A			-	-		-	-						
Stage 1         -         -         -         -         587         576         -         602         578         -           Stage 2         -         -         -         -         -         618         626         -         512         517         -           Approach         EB         WB         NB         NB         SB           HCM Control Delay, s         0.3         0.4         14.6         18.5           HCM LOS         B         C         C    Minor Lane/Major Mvmt  NBLn1  EBL  EBT  EBR  WBL  WBT  WBR SBLn1  Capacity (veh/h)  382  1188  - 1091  - 332  HCM Lane V/C Ratio  0.02  0.016  - 0.017  - 0.201  HCM Control Delay (s)  14.6  8.1  - 8.4  0  - 18.5  HCM Lane LOS  B  A  - A  A  - C	Mov Cap-1 Maneuver	1188	-	-	1091	-	-	275	308	564	234	255	681
Stage 2         -         -         -         -         618         626         -         512         517         -           Approach         EB         WB         NB         SB           HCM Control Delay, s         0.3         0.4         14.6         18.5           HCM LOS         B         C    Minor Lane/Major Mvmt  NBLn1  EBL  EBT  EBR  WBL  WBT  WBR SBLn1  Capacity (veh/h)  382  1188  1091  - 332  HCM Lane V/C Ratio  0.02  0.016  0.017  - 0.201  HCM Control Delay (s)  14.6  8.1  - 8.4  0  - 18.5  HCM Lane LOS  B  A  - A  C	Mov Cap-2 Maneuver	-	-	-	-	-	-	275	308	-	234	255	-
Stage 2         -         -         -         -         618         626         -         512         517         -           Approach         EB         WB         NB         SB           HCM Control Delay, s         0.3         0.4         14.6         18.5           HCM LOS         B         C    Minor Lane/Major Mvmt  NBLn1  EBL  EBT  EBR  WBL  WBT  WBR SBLn1  Capacity (veh/h)  382  1188  1091  - 332  HCM Lane V/C Ratio  0.02  0.016  0.017  - 0.201  HCM Control Delay (s)  14.6  8.1  - 8.4  0  - 18.5  HCM Lane LOS  B  A  - A  A  - C	Stage 1	-	-	-	-	-	-	587	576	-	602	578	-
Approach         EB         WB         NB         SB           HCM Control Delay, s         0.3         0.4         14.6         18.5           HCM LOS         B         C             Minor Lane/Major Mvmt         NBLn1         EBL         EBT         EBR         WBL         WBT         WBR SBLn1           Capacity (veh/h)         382         1188         -         -         1091         -         -         332           HCM Lane V/C Ratio         0.02         0.016         -         -         0.017         -         -         0.201           HCM Control Delay (s)         14.6         8.1         -         -         8.4         0         -         18.5           HCM Lane LOS         B         A         -         A         A         -         C		-	-	-	-	-	-	618	626	-	512	517	-
HCM Control Delay, s 0.3 0.4 14.6 18.5  HCM LOS B C  Minor Lane/Major Mvmt NBLn1 EBL EBT EBR WBL WBT WBR SBLn1  Capacity (veh/h) 382 1188 1091 332  HCM Lane V/C Ratio 0.02 0.016 0.017 0.201  HCM Control Delay (s) 14.6 8.1 8.4 0 - 18.5  HCM Lane LOS B A A A - C													
HCM Control Delay, s 0.3 0.4 14.6 18.5  HCM LOS B C  Minor Lane/Major Mvmt NBLn1 EBL EBT EBR WBL WBT WBR SBLn1  Capacity (veh/h) 382 1188 1091 332  HCM Lane V/C Ratio 0.02 0.016 0.017 0.201  HCM Control Delay (s) 14.6 8.1 8.4 0 - 18.5  HCM Lane LOS B A A A - C	Annroach	ED			\/\/D			NID			QD.		
Minor Lane/Major Mvmt         NBLn1         EBL         EBR         WBL         WBT         WBR SBLn1           Capacity (veh/h)         382         1188         -         -         1091         -         -         332           HCM Lane V/C Ratio         0.02         0.016         -         -         0.017         -         -         0.201           HCM Control Delay (s)         14.6         8.1         -         -         8.4         0         -         18.5           HCM Lane LOS         B         A         -         A         A         -         C													
Minor Lane/Major Mvmt         NBLn1         EBL         EBR         WBL         WBT         WBR SBLn1           Capacity (veh/h)         382         1188         -         -         1091         -         -         332           HCM Lane V/C Ratio         0.02         0.016         -         -         0.017         -         -         0.201           HCM Control Delay (s)         14.6         8.1         -         -         8.4         0         -         18.5           HCM Lane LOS         B         A         -         A         A         -         C		0.3			0.4								
Capacity (veh/h)       382       1188       -       -       1091       -       -       332         HCM Lane V/C Ratio       0.02       0.016       -       -       0.017       -       -       0.201         HCM Control Delay (s)       14.6       8.1       -       -       8.4       0       -       18.5         HCM Lane LOS       B       A       -       A       A       -       C	HOM FOS							R			Ü		
Capacity (veh/h)       382       1188       -       -       1091       -       -       332         HCM Lane V/C Ratio       0.02       0.016       -       -       0.017       -       -       0.201         HCM Control Delay (s)       14.6       8.1       -       -       8.4       0       -       18.5         HCM Lane LOS       B       A       -       A       A       -       C													
HCM Lane V/C Ratio       0.02 0.016       -       - 0.017       -       - 0.201         HCM Control Delay (s)       14.6 8.1       -       - 8.4 0       - 18.5         HCM Lane LOS       B       A       -       A       A       -	Minor Lane/Major Mvm	nt N	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1			
HCM Control Delay (s) 14.6 8.1 8.4 0 - 18.5 HCM Lane LOS B A A A - C	Capacity (veh/h)		382	1188	-	-	1091	-	-	332			
HCM Lane LOS B A A A - C	HCM Lane V/C Ratio		0.02	0.016	-	-	0.017	-	-	0.201			
HCM Lane LOS B A A A - C	HCM Control Delay (s)		14.6	8.1	-	-	8.4	0	-	18.5			
HCM 95th %tile Q(veh) 0.1 0 0.1 0.7			В	Α	-	-	Α	Α	-	С			
	HCM 95th %tile Q(veh)	)	0.1	0	-	-	0.1	-	-	0.7			

Int Delay, s/veh	Intersection												
Traffic Vol, veh/h		1.1											
Traffic Vol, veh/h	Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Traffic Vol, veh/h	Lane Configurations	*	<b>*</b>			4			4.			4.	
Future Vol, veh/h				0	3		21	0		20	17		10
Conflicting Peds, #/hr	•			0								0	
Sign Control   Free   Stop   Stop	·							0	0				
RT Channelized						Free				Stop			
Storage Length											•		
Veh in Median Storage, #         0         -         -         0         -         -         0         -         -         0         -         -         0         -         -         0         -         -         0         -         -         0         -         -         0         -         -         0         -         -         0         -         -         0         -         -         0         -         2         -         2         -         2         -         2         -         2         2         -         2         2         -         2         2         0         0         25         6         0         10           Major/Minor         Major/Minor         Major         Major         Minor         Min		80	-	_	-	-	_	_	-	_	_	-	_
Grade, %		e,# -	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor		_	0	_	-	-2	_	_		-	_		_
Heavy Vehicles, %	-	88	88	88	88		88	88		88	88		88
Major/Minor         Major1         Major2         Minor1         Minor2           Conflicting Flow All         549         0         - 370         0         0         955         961         370         961         949         537           Stage 1         -         -         -         -         -         -         406         406         -         543         543         -           Stage 2         -         -         -         -         -         406         406         -         543         543         -           Critical Hdwy         4.16         -         -         5.1         -         6.7         6.1         6.25         7.56         6.9         6.5           Critical Hdwy Stg 1         -         -         -         -         5.7         5.1         -         6.56         5.9         -           Critical Hdwy Stg 2         -         -         -         -         5.7         5.1         -         6.56         5.9         -           Critical Hdwy Stg 2         -         -         -         3.1         -         5.7         5.1         -         6.56         5.9         -	Heavy Vehicles, %	6	5	0	100	2	5		0	25	6	0	10
Major/Minor   Major1								0					
Conflicting Flow All   549   0   - 370   0   0   955   961   370   961   949   537													
Stage 1	Major/Minor	Major1		ı	Major2		1	Minor1			Minor2		
Stage 1         -         -         -         -         406         406         -         543         543         -           Critical Hdwy         4.16         -         -         5.1         -         -         6.7         6.1         6.25         7.56         6.9         6.5           Critical Hdwy Stg 1         -         -         -         -         5.7         5.1         -         6.56         5.9         -           Critical Hdwy Stg 2         -         -         -         -         5.7         5.1         -         6.56         5.9         -           Follow-up Hdwy         2.254         -         -         3.1         -         -         3.5         4         3.525         3.554         4         3.39           Pot Cap-1 Maneuver         1001         -         0         -         -         655         629         -         486         492         -         Stage 2         -         0         -         -         557         549         -         577         575         -         -         Platoon blocked, %         -         -         -         -         257         280         640         197			0	-		0	0	955	961	370	961	949	537
Stage 2         -         -         -         -         549         555         -         418         406         -           Critical Hdwy         4.16         -         -         5.1         -         -         6.7         6.1         6.25         7.56         6.9         6.5           Critical Hdwy Stg 1         -         -         -         -         5.7         5.1         -         6.56         5.9         -           Critical Hdwy Stg 2         -         -         -         -         5.7         5.1         -         6.56         5.9         -           Follow-up Hdwy         2.254         -         3.1         -         -         3.5         4         3.525         3.554         4         3.39           Pot Cap-1 Maneuver         1001         -         0         803         -         -         267         287         640         208         236         513           Stage 1         -         -         0         -         -         -         557         549         -         577         575         -           Platoon blocked, %         -         -         -         -         - </td <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>				-									
Critical Hdwy       4.16       -       -       5.1       -       -       6.7       6.1       6.25       7.56       6.9       6.5         Critical Hdwy Stg 1       -       -       -       -       -       5.7       5.1       -       6.56       5.9       -         Critical Hdwy Stg 2       -       -       -       -       5.7       5.1       -       6.56       5.9       -         Follow-up Hdwy       2.254       -       -       3.1       -       -       3.5       4       3.525       3.554       4       3.39         Pot Cap-1 Maneuver       1001       -       0       803       -       -       267       287       640       208       236       513         Stage 1       -       -       0       -       -       557       549       -       577       575       -         Platoon blocked, %       -       -       -       -       257       280       640       197       231       513         Mov Cap-1 Maneuver       1001       -       803       -       257       280       -       197       231       -         Stage 1		-	-	-	_	-	-			-			-
Critical Hdwy Stg 1       -       -       -       -       5.7       5.1       -       6.56       5.9       -         Critical Hdwy Stg 2       -       -       -       -       5.7       5.1       -       6.56       5.9       -         Follow-up Hdwy       2.254       -       -       3.1       -       -       3.5       4       3.525       3.554       4       3.39         Pot Cap-1 Maneuver       1001       -       0       803       -       -       267       287       640       208       236       513         Stage 1       -       -       0       -       -       655       629       -       486       492       -         Stage 2       -       -       0       -       -       557       549       -       577       575       -         Platoon blocked, %       -       -       -       -       257       280       640       197       231       513         Mov Cap-1 Maneuver       1001       -       803       -       257       280       640       197       231       513         Stage 1       -       -       <		4.16	_	-	5.1	-	-			6.25			6.5
Critical Hdwy Stg 2         -         -         -         -         5.7         5.1         -         6.56         5.9         -           Follow-up Hdwy         2.254         -         -         3.1         -         -         3.5         4         3.525         3.554         4         3.39           Pot Cap-1 Maneuver         1001         -         0         803         -         -         267         287         640         208         236         513           Stage 1         -         -         0         -         -         655         629         -         486         492         -           Stage 2         -         -         0         -         -         557         549         -         577         575         -           Plation blocked, %         -         -         -         -         -         -         557         549         -         577         575         -         -           Plation blocked, %         -         -         -         257         280         640         197         231         513           Mov Cap-1 Maneuver         1001         -         803         -<		-	-	-		-	-						
Follow-up Hdwy 2.254 3.1 3.5 4 3.525 3.554 4 3.39 Pot Cap-1 Maneuver 1001 - 0 803 267 287 640 208 236 513 Stage 1 0 - 0 655 629 - 486 492 - Stage 2 0 0 557 549 - 577 575 - Platoon blocked, % 557 549 - 577 575 -  Platoon blocked, %		-	-	-	_	-	-			-			-
Pot Cap-1 Maneuver   1001   -   0   803   -   -   267   287   640   208   236   513		2.254	-	-	3.1	-	-			3.525			3.39
Stage 1       -       -       0       -       -       655       629       -       486       492       -         Stage 2       -       -       0       -       -       557       549       -       577       575       -         Platoon blocked, %       -			-	0		-	-						
Stage 2       -       -       0       -       -       557       549       -       577       575       -         Platoon blocked, %       - <t< td=""><td></td><td>-</td><td>-</td><td></td><td></td><td>-</td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>		-	-			-	-						
Platoon blocked, %		-	-		-	-	-			-			-
Mov Cap-1 Maneuver         1001         -         -         803         -         -         257         280         640         197         231         513           Mov Cap-2 Maneuver         -         -         -         -         -         257         280         -         197         231         -           Stage 1         -         -         -         -         643         618         -         477         490         -           Stage 2         -         -         -         -         542         546         -         547         565         -           Approach         EB         WB         NB         SB         SB           HCM Control Delay, s         0.4         0.1         10.8         21           HCM Lane/Major Mvmt         NBLn1         EBL         EBT         WBL         WBT         WBR SBLn1           Capacity (veh/h)         640         1001         -         803         -         -         255           HCM Lane V/C Ratio         0.036         0.018         -         0.004         -         -         0.12           HCM Control Delay (s)			-			-	-						
Mov Cap-2 Maneuver         -         -         -         -         257         280         -         197         231         -           Stage 1         -         -         -         -         -         643         618         -         477         490         -           Stage 2         -         -         -         -         542         546         -         547         565         -           Approach         EB         WB         NB         NB         SB           HCM Control Delay, s         0.4         0.1         10.8         21           HCM LOS         B         C         C    Minor Lane/Major Mvmt  NBLn1  EBL  EBT  WBL  WBT  WBR SBLn1  Capacity (veh/h)  640  1001  - 803  - 255  HCM Lane V/C Ratio  0.036  0.018  - 0.004  - 0.12  HCM Control Delay (s)  10.8  8.7  - 9.5  0  - 21  HCM Lane LOS  B  A  A  A  C		1001	-	-	803	-	-	257	280	640	197	231	513
Stage 1         -         -         -         -         643         618         -         477         490         -           Stage 2         -         -         -         -         -         542         546         -         547         565         -           Approach         EB         WB         NB         NB         SB           HCM Control Delay, s         0.4         0.1         10.8         21           HCM LOS         B         C    Minor Lane/Major Mvmt  NBLn1  EBL  EBT  WBL  WBT  WBR SBLn1  Capacity (veh/h)  640  1001  - 803  - 255  HCM Lane V/C Ratio  0.036  0.018  - 0.004  - 0.12  HCM Control Delay (s)  10.8  8.7  - 9.5  0  - 21  HCM Lane LOS  B  A  - A  A  - C		-	-	-	-	-	-			-			-
Stage 2         -         -         -         -         542         546         -         547         565         -           Approach         EB         WB         NB         SB           HCM Control Delay, s         0.4         0.1         10.8         21           HCM LOS         B         C           Minor Lane/Major Mvmt         NBLn1         EBL         EBT         WBL         WBT         WBR SBLn1           Capacity (veh/h)         640         1001         -         803         -         -         255           HCM Lane V/C Ratio         0.036         0.018         -         0.004         -         -         0.12           HCM Control Delay (s)         10.8         8.7         -         9.5         0         -         21           HCM Lane LOS         B         A         -         A         A         -         C		-	-	-	-	-	-		618	-		490	-
Approach         EB         WB         NB         SB           HCM Control Delay, s         0.4         0.1         10.8         21           HCM LOS         B         C           Minor Lane/Major Mvmt         NBLn1         EBL         EBT         WBL         WBR SBLn1           Capacity (veh/h)         640         1001         -         803         -         -         255           HCM Lane V/C Ratio         0.036         0.018         -         0.004         -         -         0.12           HCM Control Delay (s)         10.8         8.7         -         9.5         0         -         21           HCM Lane LOS         B         A         -         A         A         -         C	•	-	-	-	-	-	-			-			-
HCM Control Delay, s   0.4   0.1   10.8   21     HCM LOS	, v												
Minor Lane/Major Mvmt   NBLn1   EBL   EBT   WBL   WBT   WBR SBLn1	Approach	EB			WB			NB			SB		
Minor Lane/Major Mvmt         NBLn1         EBL         EBT         WBL         WBT         WBR SBLn1           Capacity (veh/h)         640         1001         -         803         -         -         255           HCM Lane V/C Ratio         0.036         0.018         -         0.004         -         -         0.12           HCM Control Delay (s)         10.8         8.7         -         9.5         0         -         21           HCM Lane LOS         B         A         -         A         A         -         C		0.4			0.1			10.8			21		
Minor Lane/Major Mvmt         NBLn1         EBL         EBT         WBL         WBT         WBR SBLn1           Capacity (veh/h)         640         1001         -         803         -         -         255           HCM Lane V/C Ratio         0.036         0.018         -         0.004         -         -         0.12           HCM Control Delay (s)         10.8         8.7         -         9.5         0         -         21           HCM Lane LOS         B         A         -         A         A         -         C											С		
Capacity (veh/h)       640       1001       -       803       -       -       255         HCM Lane V/C Ratio       0.036       0.018       -       0.004       -       -       0.12         HCM Control Delay (s)       10.8       8.7       -       9.5       0       -       21         HCM Lane LOS       B       A       -       A       A       -       C													
HCM Lane V/C Ratio       0.036       0.018       - 0.004       0.12         HCM Control Delay (s)       10.8       8.7       - 9.5       0 - 21         HCM Lane LOS       B       A       - A       A       - C	Minor Lane/Major Mvm	nt	NBLn1	EBL	EBT	WBL	WBT	WBR S	SBL <sub>n1</sub>				
HCM Lane V/C Ratio       0.036       0.018       - 0.004       0.12         HCM Control Delay (s)       10.8       8.7       - 9.5       0 - 21         HCM Lane LOS       B       A       - A       A       - C	Capacity (veh/h)		640	1001	-	803	_	-	255				
HCM Control Delay (s) 10.8 8.7 - 9.5 0 - 21 HCM Lane LOS B A - A A - C					-		-	-	0.12				
HCM Lane LOS B A - A A - C					-		0	-					
					-		A	-					
110W 00W 70W Q(V01)	HCM 95th %tile Q(veh)	)	0.1	0.1	-	0	-	-	0.4				

Intersection						
Int Delay, s/veh	0.3					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<b>1</b>			4	W	
Traffic Vol, veh/h	420	12	11	312	4	4
Future Vol, veh/h	420	12	11	312	4	4
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	_	None	_		-	None
Storage Length	_	_	_	_	0	-
Veh in Median Storage,	# 0	-	-	0	0	_
Grade, %	0	_	_	0	0	_
Peak Hour Factor	89	89	89	89	89	89
Heavy Vehicles, %	1	0	0	3	0	0
Mymt Flow	472	13	12	351	4	4
WWW.CT IOW	112	10	12	001	•	•
	lajor1		/lajor2		Minor1	
Conflicting Flow All	0	0	485	0	854	479
Stage 1	-	-	-	-	479	-
Stage 2	-	-	-	-	375	-
Critical Hdwy	-	-	4.1	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	1088	-	332	591
Stage 1	-	-	-	-	627	-
Stage 2	-	-	-	-	699	-
Platoon blocked, %	-	_		_		
Mov Cap-1 Maneuver	_	_	1088	_	327	591
Mov Cap-2 Maneuver	_	_	-	_	327	-
Stage 1	_	_	_	_	627	_
Stage 2	_	_	_	_	689	_
olaye Z	<u>-</u>	_	_	_	003	_
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.3		13.7	
HCM LOS					В	
Minor Long/Major Mumb	N	JDI p1	EDT	EDD	W/DI	WDT
Minor Lane/Major Mvmt	ľ	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		421 0.021	-	-	1088	-
HOME NO BUT		11 1171	-	-	0.011	-
HCM Lane V/C Ratio					0.0	^
HCM Control Delay (s)		13.7	-	-	8.3	0
					8.3 A 0	0 A

Intersection						
Int Delay, s/veh	0.4					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	\$	LDIX	*****	4	Y	HOIL
Traffic Vol, veh/h	323	5	5	469	11	11
Future Vol, veh/h	323	5	5	469	11	11
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	riee -		Stop -	None
Storage Length	-	None -	_	None -	0	INOHE -
Veh in Median Storage			_	0	0	
	0			0	0	
Grade, %		-	-			-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	1	0	0	1	0	0
Mvmt Flow	351	5	5	510	12	12
Major/Minor I	Major1	N	Major2	N	/linor1	
Conflicting Flow All	0	0	356	0	874	354
Stage 1	-	_	-	-	354	-
Stage 2	_	_	_	_	520	_
Critical Hdwy	_	_	4.1	_	6.4	6.2
Critical Hdwy Stg 1	_	_	7.1	<u>-</u>	5.4	- 0.2
Critical Hdwy Stg 2	_		_	_	5.4	_
Follow-up Hdwy	_		2.2	<u>-</u>	3.5	3.3
Pot Cap-1 Maneuver		-	1214	_	323	694
•		_	1214	-	715	094
Stage 1	-	-	-	-	601	-
Stage 2	-	-	-	-	100	-
Platoon blocked, %	-	-	1011	-	204	00.4
Mov Cap-1 Maneuver	-	-	1214	-	321	694
Mov Cap-2 Maneuver	-	-	-	-	321	-
Stage 1	-	-	-	-	715	-
Stage 2	-	-	-	-	597	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.1		13.7	
HCM LOS	U		0.1			
HOW LOS					В	
Minor Lane/Major Mvm	it 1	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		439	-		1214	-
HCM Lane V/C Ratio		0.054	_		0.004	-
HCM Control Delay (s)		13.7	-	-	_	0
HCM Lane LOS		В	_	_	A	A
HCM 95th %tile Q(veh)		0.2	_	-	0	-
J 222. 702.0 54(1011)						

Intersection						
Int Delay, s/veh	0.2					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	1→	LDIK	VVDL	₩ <b>4</b>	₩.	NOIN
Traffic Vol, veh/h	419	5	10	322	1	2
Future Vol, veh/h	419	5	10	322	1	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	riee -		Stop -	None
Storage Length	-	None -	_	None -	0	None -
Veh in Median Storage,		-		0	0	
	# 0			0	0	
Grade, %		-	-			-
Peak Hour Factor	89	89	89	89	89	89
Heavy Vehicles, %	1	0	50	3	0	50
Mvmt Flow	471	6	11	362	1	2
Major/Minor N	/lajor1	N	Major2	N	/linor1	
Conflicting Flow All	0	0	477	0	858	474
Stage 1	-	-		-	474	- '' -
Stage 2	_	_	_	_	384	_
Critical Hdwy	_	_	4.6	_	6.4	6.7
Critical Hdwy Stg 1	_		٦.٠	<u>-</u>	5.4	- 0.7
Critical Hdwy Stg 2	_		_	_	5.4	_
Follow-up Hdwy	_	_	2.65	<u>-</u>	3.5	3.75
Pot Cap-1 Maneuver		-	876	_	330	503
•	-	-	0/0		630	505
Stage 1	-	-	-	-		-
Stage 2	-	-	-	-	693	-
Platoon blocked, %	-		070	-	005	500
Mov Cap-1 Maneuver	-	-	876	-	325	503
Mov Cap-2 Maneuver	-	-	-	-	325	-
Stage 1	-	-	-	-	630	-
Stage 2	-	-	-	-	682	-
Approach	EB		WB		NB	
	0		0.3		13.5	
HCM Control Delay, s	U		0.5			
HCM LOS					В	
Minor Lane/Major Mvmt	t 1	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		425	-	-		-
HCM Lane V/C Ratio		0.008	_	-	0.013	-
HCM Control Delay (s)		13.5	_	-		0
HCM Lane LOS		В	_	_	A	A
HCM 95th %tile Q(veh)		0	_	-	0	-
, 2 2 2. / valie 2 ( / viii)						

Intersection						
Int Delay, s/veh	0.3					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	1	LDIX	****	4	Y	HUIT
Traffic Vol, veh/h	332	2	4	468	5	10
Future Vol, veh/h	332	2	4	468	5	10
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	riee -		Stop -	None
Storage Length	-	None -	_	None -	0	None -
Veh in Median Storage,				0	0	
Grade, %	0	-	_	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	1	0	50	1	0	60
Mvmt Flow	361	2	4	509	5	11
Major/Minor N	/lajor1	N	Major2	N	/linor1	
Conflicting Flow All	0	0	363	0	879	362
Stage 1	-	-	-	-	362	-
Stage 2	_	_	_	_	517	_
Critical Hdwy	_	_	4.6	_	6.4	6.8
Critical Hdwy Stg 1	_	_	-	_	5.4	-
Critical Hdwy Stg 2	_	_	_	_	5.4	_
Follow-up Hdwy	_	_	2.65	_	3.5	3.84
Pot Cap-1 Maneuver	_	_	974	_	321	570
Stage 1	_	_	- 517	<u>-</u>	709	- 010
Stage 2					603	
Platoon blocked, %	-	-	-	-	003	-
Mov Cap-1 Maneuver		-	974		319	570
	-	-	3/4	-	319	3/0
Mov Cap-2 Maneuver	-	<del>-</del>	-	-		<del>-</del>
Stage 1	-	-	-	-	709	-
Stage 2	-	-	-	-	599	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.1		13.3	
HCM LOS	U		U. 1		В	
TIOWI LOO					D	
Minor Lane/Major Mvmt	t N	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		452	-	-	974	-
HCM Lane V/C Ratio		0.036	-	-	0.004	-
HCM Control Delay (s)		13.3	-	-	8.7	0
HCM Lane LOS		В	-	-	Α	Α
HCM 95th %tile Q(veh)		0.1	-	-	0	-