MEMORANDUM

TO:	Mr. Domenic Longobardi Director of Non-Gaming Operations Plainridge Park Casino 301 Washington Street Plainville, Massachusetts 02762	FROM:	Mr. Jeffrey S. Dirk, P.E., PTOE, FITE Partner Vanasse & Associates, Inc. 35 New England Business Center Drive Suite 140 Andover, MA 01810-1066 (978) 474-8800 x830 jdirk@rdva.com Professional Engineer in CT, MA, ME, NH, RI and VA
DATE:	September 26, 2019	RE:	6964
SUBJECT:	2019 Traffic Monitoring Program Plainridge Park Casino Plainville, Massachusetts		

Vanasse & Associates, Inc. (VAI) has completed the 2019 Traffic Monitoring Program for the Plainridge Park Casino located at 301 Washington Street (Route 1) in Plainville, Massachusetts (hereafter referred to as the "Project"). The 2019 Traffic Monitoring Program is the latest update to the monitoring studies that have been completed subsequent to the opening of the Project in 2016 pursuant to the Massachusetts Department of Transportation (MassDOT) Section 61 Finding. Consistent with the prior traffic monitoring reports, this report includes a review of: i) traffic volumes; ii) trip patterns; iii) traffic operations; and iv) safety; along Route 1 and at defined intersections. In addition, an updated summary of the elements of the Transportation Demand Management (TDM) program that have been implemented for employees and patrons is provided, along with the results from a recent survey of employee and patron travel modes. As required by the MassDOT Section 61 Finding, the results of the 2019 Traffic Monitoring Program are being submitted to MassDOT, the Town of Plainville, the Southeastern Regional Planning and Economic Development District (SRPEDD), the Greater Attleboro Taunton Regional Transit Authority (GATRA) and the Secretary of Energy and Environmental Affairs.

Based on a review of the results of the 2019 Traffic Monitoring Program, we have noted the following with respect to the Project:

- The *measured* traffic volumes associated with the Project were found to be approximately four

 (4) percent lower on an average weekday, 52 percent higher during the weekday morning peak-hour, 28 percent higher during the Friday evening peak-hour and four (4) percent higher during the Saturday afternoon peak-hour when compared to the traffic volume *projections* for the Project. As documented herein, sufficient capacity is afforded at the Project site driveway intersection with Route 1 and at the monitored intersections to accommodate the variation in traffic volumes associated with the Project;
- 2. The 2019 observed peak-hour traffic volumes within the study area were found to be similar to the conditions that were documented in the 2015 Baseline Study;



- 3. A review of motor vehicle crash data indicates that the study intersections exhibited similar crash patterns before and after the opening of the Project and, with the exception of the Route 1/Route 152 intersection, were found to have motor vehicle crash rates that were <u>below</u> both the MassDOT statewide and District averages for a signalized or unsignalized intersection, as appropriate, for the MassDOT Highway Division District in which the intersections are located (District 5);
- 4. The Route 1/Route 152 intersection was found to have experienced a decrease in the number of reported crashes after the opening of the Project (17 crashes in 2015 vs. 10 crashes in 2017); however, the calculated motor vehicle crash rate continues to be <u>above</u> the MassDOT average crash rate (statewide and District 5) for a signalized intersection. The majority of the crashes occurring at the intersection were reported as rear-end type collisions that resulted in property damage only. A Road Safety Audit (RSA) was conducted for this intersection in 2014 as a part of the Project and a number of the recommendations from the RSA have been implemented. It is likely that these improvements have contributed to the reduction in the number of motor vehicle crashes occurring at the intersection;
- 5. Eighteen motor vehicle crashes were reported to have occurred at the Route 1/Plainridge Park Casino driveway intersection over the 5-year review period, the majority of which occurred on a weekday, involved rear-end type collisions that were attributed to driver error, and resulted in property damage only. The calculated motor vehicle crash rate at the intersection was found to be <u>below</u> the MassDOT average crash rates for a signalized intersection;
- 6. Operating conditions at the majority of the monitored intersections were found to be similar to the conditions that were documented as a part of the 2015 Baseline Study, indicating that the opening of the Project and the associated increase in traffic volumes did not result in a significant increase in motorist delays or vehicle queueing over the conditions that existed prior to the opening of the Project with consideration of the noted traffic volume differentials during the peak hours;
- 7. The intersection of Route 1 at the Plainridge Park Casino driveway was shown to operate at an overall level-of-service (LOS) B or better during both the weekday evening and Saturday afternoon peak hours, with all movements reported to be operating at LOS C or better where a LOS of "D" or better is considered "acceptable" operating conditions;
- 8. Approximately 92 percent of patrons and employees arrive to the Project site alone in a private automobile, with approximately 70 percent indicating that they were not aware of public transportation or car/vanpool opportunities. The majority of patrons and employees indicated that they would not use or participate in a shuttle program from an off-site parking facility and would not walk or bicycle to the Project site if sidewalks and bicycle lanes were available; and
- 9. Twenty-four (24) percent of employees indicated that they were not aware of the corporate Transportation Demand Management (TDM) program but would participate. This indicates a distinct opportunity to increase employee participation in the TDM program.

In consideration of these findings, we have concluded that the measured impact of the Project on traffic volumes, trip patterns, motor vehicle crash trends, and traffic operations (levels of service, motorist delays and vehicle queuing) has been relatively minor, with operating conditions at the monitored intersections found to be similar to the conditions that were documented as a part of the 2015 Baseline Study. Further, opportunities exist to increase employee participation in the TDM program and the use of public transportation services and car/vanpool participation by both patrons and employees.

The following summarizes the results of the 2019 Traffic Monitoring Program.



EXISTING CONDITIONS

An updated field inventory of existing conditions within the study area was conducted in June 2019. The field investigation consisted of an inventory of existing roadway geometrics; pedestrian and bicycle facilities; public transportation services; traffic volumes; and operating characteristics; as well as posted speed limits and land use information within the study area. The study area for the 2019 Traffic Monitoring Program was developed in consultation with MassDOT and includes the major roadway that provide access to the Project site, Washington Street (Route 1), as well as six (6) major intersections (including the Project site driveway) through which Project related traffic will travel which are listed below and depicted on Figure 1.

- 1. Route 1 at Madison Street (Wrentham)
- 2. Route 1 at the I-495 Northbound Ramps (Plainville)
- 3. Route 1 at the I-495 Southbound Ramps (Plainville)
- 4. Route 1 at the Plainridge park casino Drive (Plainville)
- 5. Route 152 at Route 1 Southbound Jughandle (Plainville)
- 6. Route 1 at Route 152 (Plainville)

The following describes existing conditions within the study area.

<u>Roadway</u>

Washington Street (Route 1)

- Four-lane roadway under the jurisdiction of MassDOT that is functionally classified as an urban principal arterial roadway north of I-495 and as an urban minor arterial to the south
- Provides full access interchanges with I-495 (Exit 14) and I-95 (Exit 9) to the north of the Project site and with I-295 to the south (Exit 1)
- Provides two 11 to 23-foot wide travel lanes per direction that are separated by a raised median or double-yellow centerline with variable width marked shoulders and additional travel lanes provided at major intersections
- > Sidewalks are not provided within the study area
- Provides sufficient width (combined travel lane and shoulder) to support bicycle travel in a shared traveled-way configuration¹ with marked bicycle lanes provided between Taunton Street (Route 152) and the I-495 southbound ramps
- > The posted speed limit within the study area is 45 miles per hour (mph)

Intersections

Table 1 and Figure 2 summarize lane use, traffic control, and pedestrian and bicycle accommodations at the study area intersections.

¹A minimum combined travel lane and paved shoulder width of 14-feet is required to support bicycle travel in a shared traveledway condition.



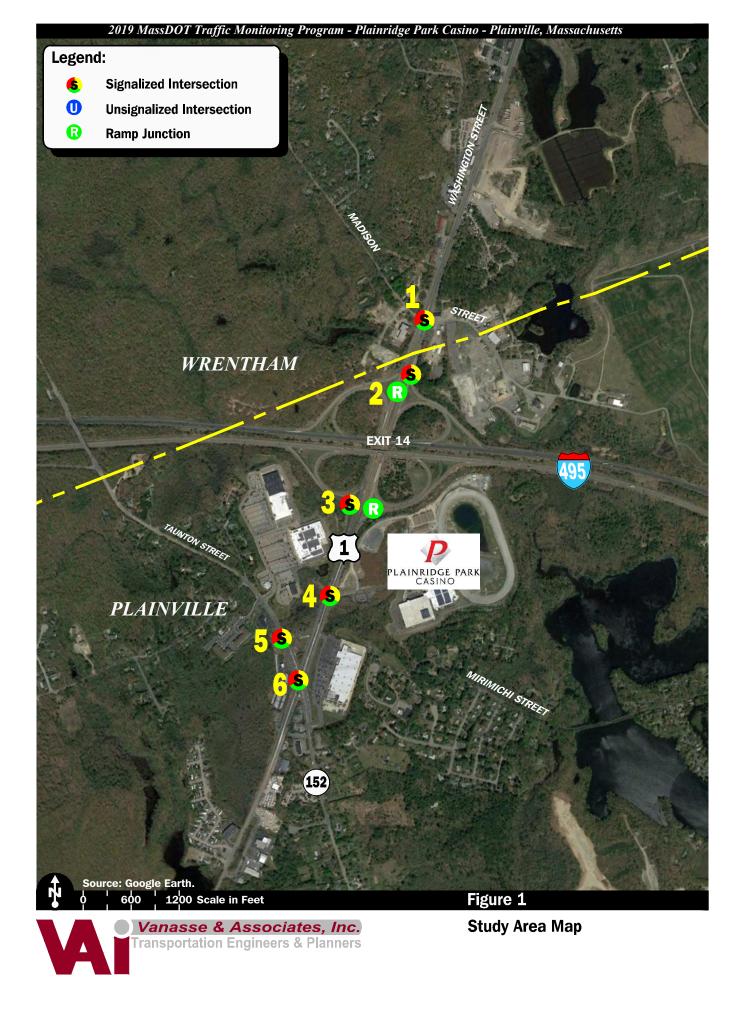
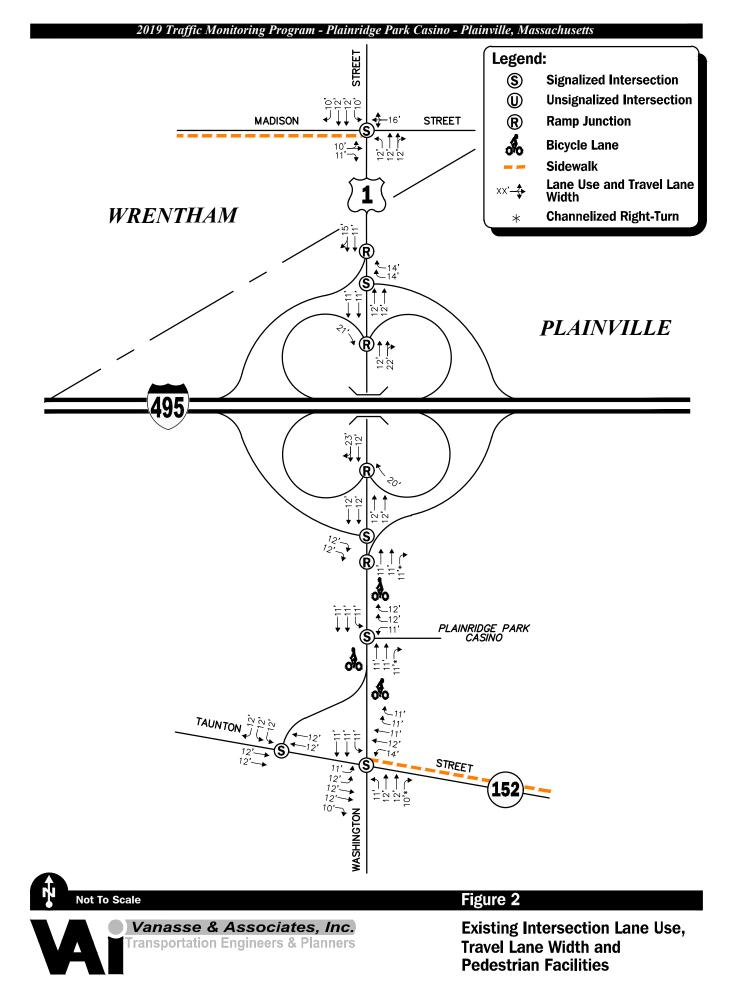


Table 1 STUDY AREA INTERSECTION DESCRIPTION

No.	Intersection	Traffic Control Type ^a	No. of Travel Lanes Provided	Shoulder Provided? (Yes/No/Width)	Pedestrian Accommodations? (Yes/No/Description)	Bicycle Accommodations? (Yes/No/Description)
1.	Route 1/ Madison Street	TS	2 per direction on Route 1 with turn lanes; 1 left/thru lane and 1 right-turn lane on Madison Street eastbound and 1 general- purpose lane on Madison Street westbound	Yes – 1 to 15 feet on Route 1	No	Yes - Shared traveled-way ^b
2.	Route 1/I-495 Northbound Ramps	F	2 per direction on Route 1 with turn lanes; 1 per direction on I-495 ramps	Yes – 2 to 3 feet on all approaches	No	Yes - Shared traveled-way
2A.	Route 1 Northbound/ I-495 Northbound Off-Ramp	TS	2 per direction on Route 1 and I-495 Northbound Off-Ramp	Yes – 1 to 12 feet on all approaches	No	Yes – Shared traveled- way
3.	Route 1/I-495 Southbound Ramps	F	2 per direction on Route 1 with turn lanes; 1 per direction on I-495 ramps	Yes – 2 to 3 feet on all approaches	No	Yes - Shared traveled-way
3A.	Route 1 Southbound/ I-495 Southbound Off-Ramp	TS	2 per direction on Route 1 and I-495 Southbound Off-ramp	Yes – 1 to 12 feet on all approaches	No	Yes – Bicycle lane on Route 1 Southbound
4.	Route 1/ Plainridge Park Casino Drive	TS	2 per direction on Route 1 with turn lanes; 1 left-turn lane and 2 right-turn lanes on Plainridge Park Casino Drive	Yes – 1 to 5 feet on all approaches	No	Yes – Bicycle lane on Route 1 and shared traveled-way on Plainridge Park Casino Driveway with "sharrow" pavement markings; bicycle detection on all approaches
5.	Route 152/ Route 1 Southbound Jughandle	TS	2 per direction on Route 1; 2 left-turn lanes and 1 right-turn lane on Route 1 Southbound Jughandle	Yes – 1 to 2 feet on all approaches	No	Yes – Bicycle detection on all approaches
6.	Route 152/ Route 106	TS	1 per direction on Route 152 with turn lanes; 1 per direction on Route 106 with turn lanes	Yes – 1 to 4 feet on all approaches	Yes – Sidewalks along both sides of Route 152 and Route 106; crosswalks on all approaches; exclusive pedestrian phase with pushbutton actuation	Yes - Shared traveled-way

 ${}^{a}TS = traffic signal control; S = STOP-sign control; Y = Yield-sign control; F = free-flow (added lane).$ ${}^{b}Combined shoulder and travel lane width equal to or exceeds 14 feet.$





EXISTING TRAFFIC VOLUMES

Traffic volume data for the 2019 Traffic Monitoring Program was obtained from automatic traffic recorder (ATR) counts and manual turning movement counts (TMCs) conducted in June 2019. The ATR counts were completed over a continuous seven-day, week-long period on the driveway that serves the Project site, with weekday evening (4:00 to 7:00 PM) and Saturday afternoon (2:00 to 5:00 PM) peak-period manual TMCs performed at the study area intersections. These time periods were selected as they are representative of the peak traffic volume periods for both the Project and the proximate roadway network.

Traffic Volume Adjustments

In order to evaluate the potential for seasonal fluctuation of traffic volumes within the study area, monthly traffic volumes obtained from the closest MassDOT permanent count station to the Project site were reviewed (Permanent Count Station No. 6248 located on Interstate-95 (I-95), north of Interstate-495 (I-495), in Foxborough).² Based on a review of the count station data, it was determined that traffic volumes for the month of June are approximately 8.5 percent <u>above</u> average-month conditions. In order to allow for a comparison between the 2019 traffic volume data and the traffic volume data that was collected in conjunction with the 2015 Baseline Study (which was adjusted to average-month conditions), the June traffic volume data was adjusted downward by 8.5 percent in order to be representative of average-month traffic volumes are graphically depicted on Figures 3 and 4, respectively. A review of the 2019 traffic volume data indicates that the peak-hour traffic volumes are similar to or slightly lower than those that were reported in the 2015 Baseline Study. Copies of the peak-hour traffic volume networks from the 2015 Baseline Study are included in the Appendix for reference.

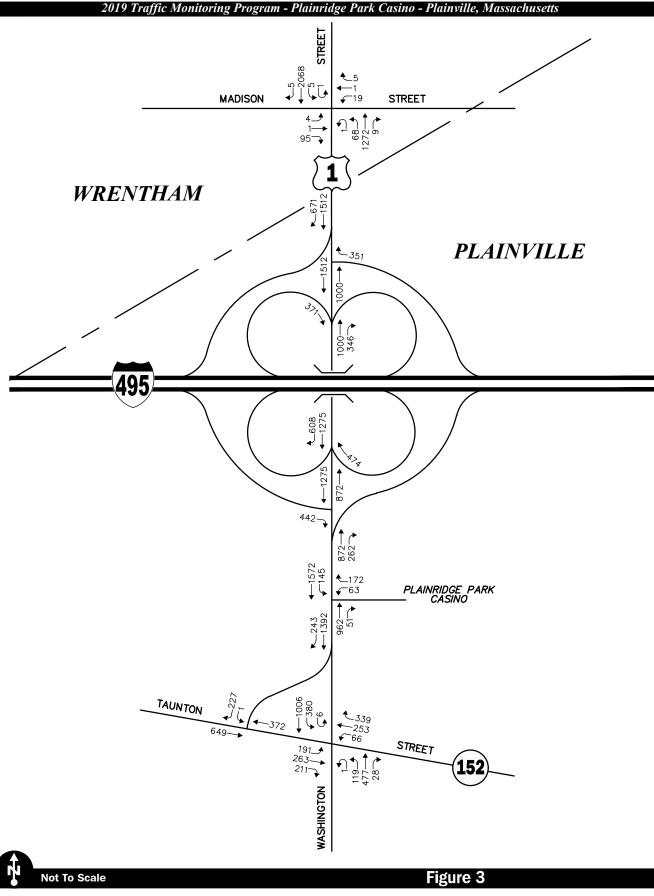
Motor Vehicle Crash Data

Motor vehicle crash information for the study intersections was provided by the MassDOT Highway Division Safety Management/Traffic Operations Unit for the most recent five-year period available (2013 through 2017, inclusive) in order to examine motor vehicle crash trends occurring within the study area. The data is summarized by intersection, type, severity, and day of occurrence, and presented in Table 2.

As can be seen in Table 2, with the exception of the Route 1/Route 152 intersection, the study intersections were found to have a calculated crash rate <u>below</u> the MassDOT statewide and District 5 averages for a signalized or unsignalized intersection, as appropriate. The majority of the crashes reported at the intersections involved property damage only; occurred on a weekday; and were reported as either angle or rear-end-type collisions.



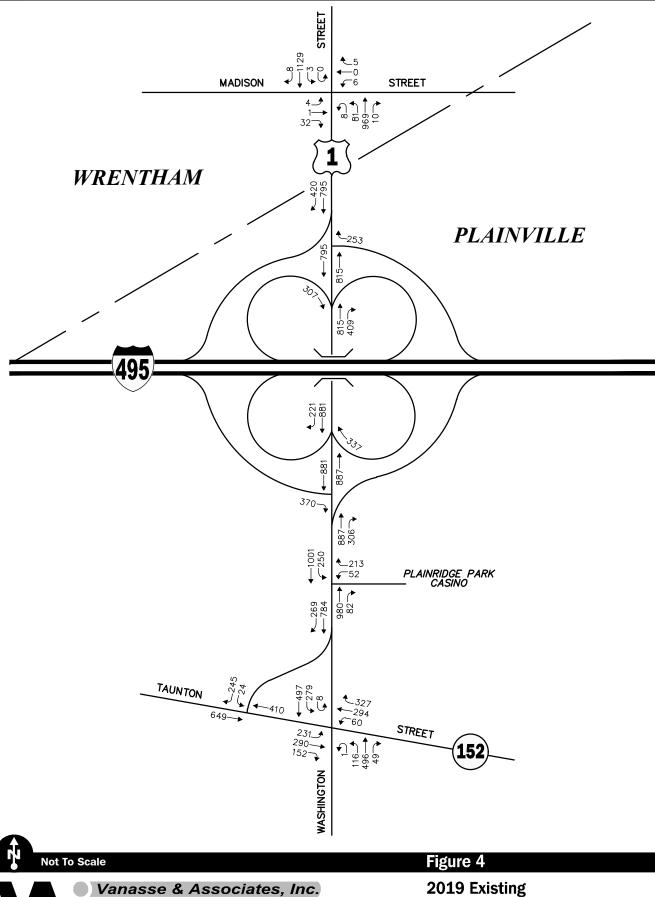
²MassDOT Traffic Volumes for the Commonwealth of Massachusetts; 2019.



Vanasse & Associates, Inc.

2019 Existing Weekday Evening Peak Hour Traffic Volumes

Average-Month Conditions



2019 Traffic Monitoring Program - Plainridge Park Casino - Plainville, Massachusetts

Transportation Engineers & Planners

2019 Existing Saturday Midday Peak Hour Traffic Volumes Average-Month Conditions

Table 2 MOTOR VEHICLE CRASH DATA SUMMARY^a

	Route 1/ Madison Street	Route 1/ I-495 Northbound Ramps	Route 1/ I-495 Southbound Ramps	Route 1/ Plainridge Park Casino Drive	Route 1/ Route 152	Route 152/ Route 1 Southbound Jughandle
Traffic Control Type ^b :	U	Ι	I/TS	TS	TS	TS
Year:						
2013	6	2 8	6	0	15	1
2014	6	8	2 7	0	15	0
2015	6	1	7	5	17	2
2016	5	1	$\frac{4}{\frac{8}{27}}$	5	10	1
2017	$\frac{8}{31}$	$\frac{0}{12}$	8	$\frac{8}{18}$	<u>10</u>	$\frac{0}{4}$
Total	31	12	27	18	67	4
Average	6.20	2.40	5.40	3.60	13.40	0.80
Rate ^c	0.43	0.14	0.34	0.30	0.99	0.16
MassDOT Crash Rate ^d	0.57/0.57	0.57/0.57	0.57/0.57	0.78/0.75	0.78/0.75	0.78/0.75
Significant? ^e	No	No	No	No	Yes	No
Type:						
Angle	9	0	0	1	22	0
Rear-End	12	2	12	14	39	2
Head-On	2	0	0	1	1	0
Fixed Object	1	0	3	0	2	1
Sideswipe	7	2	6	0	2	1
Pedestrian	0	0	0	0	0	0
Other/Unknown	$\frac{0}{31}$	$\frac{8}{12}$	$\frac{6}{27}$	$\frac{2}{18}$	$\frac{1}{67}$	$\frac{0}{4}$
Total	31	12	27	18	67	4
Severity:						
Property Damage Only	22	8	25	13	52	4
Personal Injury	9	4	2	5	15	0
Fatal	$\frac{0}{31}$	$\frac{0}{12}$	$\frac{0}{27}$	$\frac{0}{18}$	$\frac{0}{67}$	$\frac{0}{4}$
Total	31	12	27	18	67	4
Day of Week:						
Monday through Friday	23	10	22	14	51	3
Saturday	4	1	1	3	8	1
Sunday	$\frac{4}{31}$	$\frac{1}{12}$	$\frac{4}{27}$	_1	$\frac{8}{67}$	<u>0</u>
Total	31	12	27	18	67	4

^aSource: MassDOT Safety Management/Traffic Operations Unit records, 2013 through 2017. ^bTraffic Control Type: TS = traffic signal; U = unsignalized; I = Interchange. ^cCrash rate per million vehicles entering the intersection.

^d2018 Statewide/District crash rate.

"The intersection crash rate is significant if it is found to exceed MassDOT statewide or District crash rate for the MassDOT Highway Division District in which the intersection is located (District 5).



The Route 1/Route 152 intersection was reported to have experienced a total of 67 motor vehicle crashes over the five-year review period, the majority of which resulted in property damage only, occurred on a weekday and were classified as rear-end type crashes. A review of the crash data before and after the opening of the Project (2016) indicates that the intersection has experienced a reduction in the number of reported crashes (17 crashes in 2015 vs. 10 crashes in 2017); however, the calculated motor vehicle crash rate continues to be <u>above</u> the MassDOT average crash rate (statewide and District 5) for a signalized intersection. A Road Safety Audit (RSA) was conducted for this intersection in 2014 as a part of the Project and a number of the recommendations from the RSA have been implemented at the intersection. It is likely that these improvements have contributed to the reduction in the number of motor vehicle crashes occurring at the intersection.

The Project site driveway intersection with Route 1 was reported to have experienced a total of 18 motor vehicle crashes over the five-year review period, the majority of which occurred on a weekday, involved rear-end type collisions that were attributed to driver error, and resulted in property damage only. The calculated motor vehicle crash rate at the intersection was found to be <u>below</u> the MassDOT average crash rates for a signalized intersection.

A review of the MassDOT statewide High Crash Location List indicated that were no locations within the study area that were included on MassDOT's Highway Safety Improvement Program (HSIP) listing as high crash locations. In addition, no fatal motor vehicle crashes were reported to have occurred at the study area intersections over the five-year review period.

The detailed MassDOT Crash Rate Worksheets and High Crash Location mapping are provided in the Appendix.

PLAINRIDGE PARK CASINO TRAFFIC CHARACTERISTICS

Table 3 summarizes the traffic volume data as measured on the Plainridge Park Casino driveway, the sole access to the Project site, in June 2019, and compares the measured traffic volumes to the traffic volume projections for the Project as presented in the March 2013 *Traffic Impact Study* (the "March 2013 TIS") that was prepared in support of the Project.³ The traffic volumes presented in Table 3 represent averagemonth conditions and include traffic volumes associated with the horse racetrack operation as well as the casino.

³*Traffic Impact Study for the Plainridge Racecourse Expansion*, 301 Washington Street (Route 1), Plainville, Massachusetts; McMahon Associates; March 2013.



Table 3 PLAINRIDGE PARK CASINO TRAFFIC VOLUME SUMMARY AND COMPARISON

	(A) June 2019 Measured Traffic Volumes ^a	(B) Projected Traffic Volumes ^b	(C = A-B) Difference
Average Weekday Daily	6,232	6,512	-280
Weekday Morning Peak-Hour	161	106	+55
Friday Evening Peak-Hour	627	489	+138
Saturday	8,152	c	c
Saturday Afternoon Peak-Hour	630	603	+27

^aTraffic volumes as measured on the Plainridge Park Casino driveway in June 2019.

^bAs presented in the March 2013 TIS.

^cSaturday trip estimates for the Project were not presented as a part of the March 2013 TIS.

As can be seen in Table 3, the Project was shown to generate approximately 6,232 vehicle trips on an average weekday (two-way, 24-hour volume) as *measured* in June 2019, with 161 vehicle trips *measured* during the weekday morning peak-hour and 627 vehicle trips *measured* during the Friday evening peakhour. On a Saturday, the Project was shown to generate approximately 8,152 vehicle trips as *measured* in June 2019, with 630 vehicle trips *measured* during the Saturday afternoon peak-hour.

In comparison to the traffic volume *projections* for the Project that were presented in the March 2013 TIS, the actual *measured* traffic volumes were found to be 280 vehicle trips <u>lower</u> (approximately 4 percent) on an average weekday when compared to the trip estimates for the Project. During the weekday morning and Friday evening peak hours, the *measured* traffic volumes were found to be 55 vehicle trips <u>higher</u> (approximately 52 percent) and 138 vehicle trips <u>higher</u> (approximately 28 percent), respectively, than the traffic volume *projections* for the Project. During the Saturday afternoon peak-hour, the actual *measured* traffic volumes were found to be 27 vehicle trips <u>higher</u> (approximately four (4) percent) when compared to the trip estimates for the Project.

With the exception of the weekday morning and Friday evening peak hours, the measured traffic volumes were found to be within a 10 percent variation of the projected traffic volumes, which is within the range of normal daily and seasonal traffic volume fluctuations and not unexpected. The traffic volume differentials during the weekday morning and Friday evening peak hours exceeded normal variations; however, as identified in the Traffic Operations Analysis section of this assessment (discussion follows), operating conditions at the Project site access were found to be acceptable (defined as a level-of-service of "D" or better), with the balance of the intersections within the traffic monitoring program study area found to be operating under similar or improved conditions from those that were documented as a part of the 2015 Baseline Study.



TRAFFIC OPERATIONS ANALYSIS

In order to evaluate traffic operations at the study intersections, a detailed traffic operations and vehicle queue analysis ("LOS analysis") was performed for the weekday evening and Saturday afternoon peak hours using the 2019 traffic volume data presented on Figures 3 and 4. Capacity analyses provide an indication of how well transportation facilities serve the traffic demands placed upon them, with vehicle queue analyses providing a secondary measure of the operational characteristics of an intersection or section of roadway under study.

In brief, six levels of service are defined for each type of facility. They are given letter designations ranging from "A" to "F", with a level-of-service (LOS) "A" representing the best operating conditions and a LOS "F" representing congested or constrained operations. A LOS "E" is representative of a transportation facility that is operating at its design capacity with a LOS "D" generally defined as the limit of "acceptable" traffic operations. Since the level-of-service of a traffic facility is a function of the flows placed upon it, such a facility may operate at a wide range of levels of service depending on the time of day, day of week, or period of the year.

The Synchro® intersection capacity analysis software, which is based on the analysis methodologies and procedures presented in the 2010 *Highway Capacity Manual* (HCM),⁴ was used to complete the level-of-service and vehicle queue analyses at the signalized and unsignalized intersections. The levels of service for signalized intersections were calculated using the operational analysis methodology of the 2000 Highway Capacity Manual and implemented as a part of the Synchro® software as suggested by MassDOT. The Highway Capacity Manual (HCM) analysis software was used to complete the level-of-service analysis at the ramp junction intersections (interchange areas).

The results of the 2019 traffic operations analysis are summarized in Tables 4, 5 and 6 along with the corresponding operating conditions that were reported as a part of the 2015 Baseline Study. The detailed analysis worksheets are provided in the Appendix.

2019 Traffic Operations Analysis Summary

Signalized Intersections

As can be seen in Table 4, all four (4) signalized intersections within the study area were shown to operate at an overall LOS C or better under all analysis periods with the following of note:

- Route 1/Route 152 During the weekday evening peak-hour, left-turn movements on the Route 152 eastbound approach were shown to be operating at their design capacity (LOS E) with vehicle queues of up to 5 vehicles.
- Route 1/Plainridge Park Driveway Overall intersection operations were reported at LOS B or better with individual movements operating at LOS C or better.

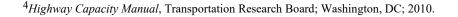




Table 4SIGNALIZED INTERSECTION LEVEL-OF-SERVICEAND VEHICLE QUEUE SUMMARY

		2015 Baseline					2019 Existing			
Signalized Intersection/ Peak Hour/Movement	V/C ^a	Delay ^b	LOS ^c	Queue ^d Avg./95 th	V/C	Delay	LOS	Queue ^d Avg./95 th		
Route 1 at the I-495Northbound Off-Ramp										
Weekday Evening: I-495 Northbound Off-Ramp WB RT					0.31	25.2	С	2/4		
Route 1 NB TH					0.31	10.1	В	2/4 7/9		
Overall					0.49	6.7	A			
Saturday Midday:		(See Tal	ale 6			0.7	А			
I-495 Northbound Off-Ramp WB RT		(500 14	<i>(</i> , 0)		0.19	36.8	D	1/2		
Route 1 NB TH					0.33	4.4	A	3/6		
Overall						7.0	A			
Route 1 at Madison Street										
Weekday Evening: Madison Street EB LT/TH					0.05	37.5	D	0/1		
Madison Street EB RT					0.05	37.3 28.0	D C	0/1 1/3		
Madison Street WB LT/TH/RT					0.22	28.0 39.0	D	1/3		
Route 1 NB UT/LT					0.20	46.3	D	2/3		
Route 1 NB TH/RT					0.29	40.3 5.5	A	3/15		
Route 1 SB UT/LT					0.07	41.2	D	0/1		
Route 1 SB TH					0.96	22.4	C	24/36		
Route 1 SB RT		(See Tal	ole 5)		0.00	6.0	Ă	0/0		
Overall		(500 14				19.6	B			
Saturday Midday:										
Madison Street EB LT/TH					0.07	44.0	D	0/1		
Madison Street EB RT					0.03	33.0	С	0/1		
Madison Street WB LT/TH/RT					0.01	44.5	D	0/0		
Route 1 NB UT/LT					0.42	47.8	D	3/5		
Route 1 NB TH/RT					0.38	2.7	А	0/4		
Route 1 SB UT/LT					0.04	46.1	D	0/1		
Route 1 SB TH					0.51	7.9	А	5/12		
Route 1 SB RT					0.01	4.7	А	0/0		
Overall						8.0	Α			

See notes at end of table.



Table 4 (Continued) SIGNALIZED INTERSECTION LEVEL-OF-SERVICE AND VEHICLE QUEUE SUMMARY

		2015 Ba	aseline			2019	Existing	
Signalized Intersection/ Peak Hour/Movement	V/C ^a	Delay ^b	LOS ^c	Queue ^d Avg./95 th	V/C	Delay	LOS	Queue ^d Avg./95 th
Route 1 at the I-495 Southbound Off-Ramp								
Weekday Evening:								
I-495 Southbound Off-Ramp EB RT					0.67	30.5	С	5/6
Route 1 SB TH					0.56	8.2	А	7/10
Route 1 SB RT					0.40	0.7	А	0/0
Overall		(See Tab	ole 6)			11.0	В	
Saturday Midday:								
I-495 Southbound Off-Ramp EB RT					0.46	26.4	С	2/3
Route 1 SB TH					0.37	4.5	А	3/5
Route 1 SB RT					0.20	0.3	А	0/0
Overall						9.0	Α	
Route 1 at the Plainridge Park Casino Driveway								
Weekday Evening:								
Plainridge Park Casino Driveway WB LT					0.32	33.4	С	1/3
Plainridge park casino Driveway WB RT					0.14	21.1	С	1/2
Route 1 NB TH					0.51	11.7	В	7/11
Route 1 NB RT					0.03	0.0	А	0/0
Route 1 SB LT					0.48	32.8	С	3/5
Route 1 SB TH	(Baseline co	nditions not a	issessed as	Project was	0.58	2.8	А	4/5
Overall		under const	truction)			8.8	Α	
Saturday Midday:			,					
Plainridge Park Casino Driveway WB LT					0.32	30.0	С	1/2
Plainridge Park Casino Driveway WB RT					0.21	16.2	В	2/2
Route 1 NB TH					0.67	15.9	В	8/13
Route 1 NB RT					0.06	0.1	А	0/0
Route 1 SB LT					0.61	27.2	С	4/7
Route 1 SB TH					0.37	2.2	А	2/3
Overall						11.7	В	

See notes at end of table.



Table 4 (Continued) SIGNALIZED INTERSECTION LEVEL-OF-SERVICE AND VEHICLE QUEUE SUMMARY

		2015 E	Baseline		2019 Existing			
Signalized Intersection/ Peak Hour/Movement	V/C ^a	Delay ^b	LOS ^c	Queue ^d Avg./95 th	V/C	Delay	LOS	Queue Avg./95 th
Route 1 at Route 152								
Weekday Evening:								
Route 152 EB LT	0.77	41.4	D	4/6	0.65	62.4	Е	3/5
Route 152 EB TH	0.90	42.5	D	6/12	0.47	43.9	D	3/6
Route 152 EB RT	0.42	9.3	А	1/3	0.15	35.9	D	0/2
Route 152 WB LT	0.34	33.4	С	1/3	0.49	46.7	D	2/4
Route 152 WB TH	0.53	30.2	С	3/4	0.50	39.7	D	4/5
Route 152 WB RT	0.42	5.7	А	0/2	0.14	36.7	D	0/2
Route 1 NB UT/LT	0.45	34.2	С	2/4	0.59	46.2	D	3/6
Route 1 NB TH	0.29	10.2	В	3/4	0.49	31.7	С	6/8
Route 1 NB RT	0.00	0.0	А	0/0	0.02	0.0	А	0/0
Route 1 SB UT/LT					0.80	39.2	D	11/13
Route 1 SB TH	0.78	27.4	С	9/12	0.69	22.7	С	12/14
Overall		27.3	С			34.1	С	
Saturday Midday:								
Route 152 EB LT	0.59	29.3	С	3/5	0.53	30.7	С	3/4
Route 152 EB TH	0.50	21.1	С	5/6	0.40	24.7	С	3/5
Route 152 EB RT	0.34	4.2	А	0/1	0.11	47.1	D	0/2
Route 152 WB LT	0.27	36.3	D	1/3	0.33	34.1	С	1/3
Route 152 WB TH	0.57	34.5	С	4/5	0.48	29.4	С	3/5
Route 152 WB RT	0.36	6.0	А	0/2	0.13	27.0	С	0/2
Route 1 NB UT/LT	0.56	36.5	D	4/6	0.54	34.8	С	3/5
Route 1 NB TH	0.34	13.7	В	4/6	0.60	29.5	Ċ	5/8
Route 1 NB RT	0.00	0.0	Ā	0/0	0.04	0.0	Ā	0/0
Route 1 SB UT/LT					0.77	37.5	D	6/10
Route 1 SB TH	0.54	28.8	С	5/6	0.44	21.7	Ċ	5/7
Overall		22.8	č			29.0	č	
Route 152 at Route 1 Southbound Jughandle								
Weekday Evening:								
Route 152 EB TH	0.38	9.2	А	4/6	0.26	2.3	А	2/3
Route 152 WB TH	0.21	6.8	А	2/2	0.14	0.5	А	1/1
Route 1 Southbound Jughandle SB LT	0.60	22.8	С	5/6	0.05	40.8	D	0/1
Route 1 Southbound Jughandle SB RT	0.46	5.1	Α	11/2	0.15	41.5	D	0/3
Overall		12.0	В			8.7	Α	
Saturday Midday:								
Route 152 EB TH	0.37	6.1	А	3/7	0.25	2.7	А	2/3
Route 152 WB TH	0.21	7.2	А	3/4	0.15	10.4	В	4/5
Route 1 Southbound Jughandle SB LT	0.44	28.9	С	3/4	0.06	31.0	С	1/1
Route 1 Southbound Jughandle SB RT	0.67	16.1	В	2/5	0.16	31.7	С	0/3
Overall		11.4	В			10.8	В	

^aVolume-to-capacity ratio.

^bControl (signal) delay per vehicle in seconds.

Level-of-Service.

^dQueue length in vehicles.

EB = eastbound; WB = westbound; NB = northbound; SB = southbound; LT = left-turning movements; TH = through movements; RT = right-turning movements; UT = u-turning movements.



Table 5 UNSIGNALIZED INTERSECTION LEVEL-OF-SERVICE AND VEHICLE QUEUE SUMMARY

		2015 Baseline				2019 Existing			
Unsignalized Intersection/ Peak Hour/Movement	Demand ^a	Delay ^b	LOS ^c	Queue ^d 95 th	Demand	Delay	LOS	Queue 95 th	
Route 1 at Madison Street									
Weekday Evening:									
Madison Street EB LT/TH/RT	61	>50.0	F	3					
Madison Street WB LT/TH/RT	31	>50.0	F	6					
Route 1NB UT/LT	61	24.4	С	1					
Route 1 NB TH/RT	1,076	0.0	А	0					
Route 1 SB LT	5	12.3	В	0					
Route 1 SB TH/RT	2,111	0.0	А	0		(See Ta	ble 4)		
Saturday Midday:							,		
Madison Street EB LT/TH/RT	44	>50.0	F	3					
Madison Street WB LT/TH/RT	16	>50.0	F	4					
Route 1 NB UT/LT	90	12.7	В	1					
Route 1 NB TH/RT	1,724	0.0	А	0					
Route 1 SB LT	4	15.9	С	0					
Route 1 SB RT	1,174	0.0	А	0					

^aDemand in vehicles per hour.

^bAverage control delay per vehicle (in seconds). ^cLevel-of-Service. ^dQueue length in vehicles.

EB = eastbound; WB = westbound; NB = northbound; SB = southbound; LT = left-turning movements; TH = through movements; RT = right-turning movements; UT = u-turning movements.



Table 6 **RAMP JUNCTION LEVEL-OF-SERVICE**

		2015 Baseline	2	2	019 Existing	
Unsignalized Intersection/ Peak Hour/Movement	Density ^a	Speed ^b	LOS ^c	Density	Speed	LOS
Route 1 Northbound at the I-495 Northbound Off-Ramp				(5	ee Table 4)	
Weekday Evening	11.4	51.1	В	(3	ee Table 4)	
Saturday Midday	16.9	50.9	В			
Route 1 Northbound at the I-495 Northbound On-Ramp						
Weekday Evening	9.3	49.1	А	12.3	49.0	В
Saturday Midday	11.9	49.2	В	11.0	48.9	В
Route 1 Northbound at the I-495 Southbound Off-Ramp						
Weekday Evening	10.9	51.1	В	13.3	51.1	В
Saturday Midday	14.1	51.1	В	12.5	51.1	В
Route 1 Northbound at the I-495 Southbound On-Ramp						
Weekday Evening	10.7	49.0	В	10.1	49.1	В
Saturday Midday	11.6	49.0	В	10.7	49.1	В
Route 1 Southbound at the I-495 Northbound On-Ramp						
Weekday Evening	19.1	48.9	В	20.6	48.6	С
Saturday Midday	10.8	49.1	В	11.3	48.9	В
Route 1 Southbound at the I-495 Northbound Off-Ramp						
Weekday Evening	21.5	50.7	С	18.5	50.9	В
Saturday Midday	12.7	51.1	В	11.5	51.1	В
Route 1 Southbound at the I-495 Southbound On-Ramp						
Weekday Evening	20.7	48.7	D	16.7	48.7	В
Saturday Midday	12.3	48.8	В	10.6	49.1	В
Route 1 Southbound at the I-495 Southbound Off-Ramp				1	Saa Tabla 4)	
Weekday Evening	21.2	50.7	С	(;	See Table 4)	
Saturday Midday	11.6	51.1	В			

^aPassenger cars per mile per lane. ^bSpeed in ramp influence area in miles per hour. ^cLevel-of-Service.



Unsignalized Intersections

As can be seen in Table 5, critical movements at the Route 1/Madison Street intersection (all movements from the Madison Street approaches) were shown to operate at or over capacity (LOS "E" or "F", respectively) during both analysis periods under 2015 Baseline conditions. With the installation of traffic control signal and minor roadway widening as a part of the mitigation commitments for the mixed-use development that is to be located off Madison Street west of Route 1, this intersection currently operates at an overall LOS B or better during both analysis periods under 2019 Existing conditions.

Ramp Junctions

As can be seen in Table 6, the ramp junctions within the study area were shown to operate at LOS C or better under during both peak periods.

Traffic Operations Comparison – Baseline vs. 2019

In general, operating conditions at the monitored intersections were found to be similar to the conditions that were documented as a part of the 2015 Baseline Study, indicating that the opening of the Project and the associated increase in traffic volumes did not result in a significant change in motorist delays or vehicle queueing over the conditions that existed prior to the opening of the Project.

TRANSPORTATION DEMAND MANAGEMENT PROGRAM

In conjunction with the initial planning of the Project, a comprehensive Transportation Demand Management (TDM) program was developed with the goal of reducing single-occupant vehicle (SOV) travel to the Project site by employees and patrons through encouraging the use of alternative modes of transportation to SOV's (i.e., carpools/vanpools, public transportation and pedestrian/bicycle trips). In addition, specific measures were targeted to reduce off-site employee trips during the workday such as direct deposit of pay checks and on-site amenities such as food services and an ATM machine. Table 7 summarizes the elements of the TDM program and the current status of implementation.



Table 72019 PLAINRIDGE PARK CASINO TDM PROGRAM

TDM Measure	Current Status	Follow-Up Required
Designate a full time on-site Transportation Coordinator	Complete	None
Join or form a Transportation Management Association (TMA)	Complete	None
Maintain a link to the MassRIDES website via the Plainridge Park Casino website	Complete	None
Maintain a link on the Plainridge Park Casino website for information on Southeastern Massachusetts bike routes	Complete	None
Provide promotional materials on-site for distribution regarding Bay State Commute (NuRide) and MassRIDES programs (e.g. website, employment package)	Complete	None
Expand the role of the on-site transportation coordinator to oversee increased employees, patronage and the related monitoring program	In-Progress	On-going
Maintain and/or expand the Guaranteed Ride Home Program	In-Progress	On-going
Offer non-essential employees work schedules to reduce peak period traffic volumes	Complete	None
Offer direct deposit to all employees	Complete	None
Provide on-site amenities such as food, ATM machine, and check cashing services to reduce off-site vehicle trips throughout the day	Complete	None
Designate a percentage of parking spaces for car/vanpool parking near the building entrance as a convenience to promote ridesharing	In-Progress	Reviewing areas of parking to designate as ridesharing spaces
Provide preferred parking for fuel-efficient vehicles to promote the use of clean fuel vehicles	Complete	None
Provide electric vehicle (EV) charging stations to charge and promote the use of clean fuel vehicles	Complete	None
Accommodate and promote the use of car-sharing services (e.g., Zip Car or Enterprise Carshare)	Complete	None
Implement vehicle idle reduction policies	Complete	None
Provide bicycle storage and changing rooms for employees who elect to bike to work	Complete	None
Provide opportunity for employees to participate in transit subsidy or reimbursement programs, such as the Charlie Card Purchase program	N/A	To be reviewed when GATRA expands route to include Plainridge Park Casino
Provide on-site bus and passenger accommodations within the entry court of the Casino, with sidewalk connections to the customer and employee entrances. These accommodations will include, but not be limited to, dedicated waiting areas for transit riders with adequate seating; kiosks and/or terminals with up to date transit information; and bus berthing areas with covered and easy access to the waiting area and casino entrances	Complete	None - Added seating and monitors with MBTA schedule in the North Casino entrance
Provide a bus circulation lane within the entry court to allow for efficient bus operations to maintain service schedules	Complete	None
Work with and provide necessary funding to the Greater Attleboro Taunton Regional Transit Authority (GATRA) to plan, develop, and implement a new route in North Attleboro and Plainville between Triboro Plaza and Plainridge Park Casino/Plainville Commons shopping center via Route 152. The new route will be designed to provide seamless transfers to the existing GATRA Bus Routes # 10 and #14 serving Attleboro, North Attleboro and Plainville	In-progress	GATRA to expand routes in 2019 to include Plainridge Park Casino



EMPLOYEE AND PATRON TRAVEL MODE SURVEY

An updated survey of employee and patron travel modes was completed in order to ascertain the effectiveness of the TDM program and to refine the initial program to achieve the desired goal of reducing overall volume of traffic generated by the Project. The results of the updated employee and patron travel mode survey are summarized in Table 8.

Table 8
2019 PLAINRIDGE PARK CASINO
EMPLOYEE AND PATRON TRAVEL MODE SURVEY

	Res	Response			
Question	Patron	Employee			
How did you arrive at Plainridge Today?					
Alone in car	92	88			
Car/vanpool	9	0			
Bus	0	0			
Taxi	0	0			
Uber/Lyft	0	0			
Motorcycle	0	2			
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	0	0			
Bicycle		÷			
Walked	0	1			
Other/Did not respond	0	3			
TOTAL:	102	94			
Are you aware of public transportation and					
can/vanpool options that are available?	24	22			
Yes	24	32			
No	75	61			
Did not respond	3	1			
TOTAL:	102	94			
Would you use public transportation or a					
shuttle from a secure designated pick-up area					
or bus terminal?					
Yes	17	22			
No	81	72			
Did not respond	4	0			
TOTAL:	102	94			
Would you walk or bicycle to Plainridge if					
sidewalks and bicycle lanes were available?					
Yes	4	13			
No	93	81			
Did not respond	5	0			
TOTAL:	102	94			
Are you aware of and do you participate in					
the corporate TDM program?					
Aware and participate	2	12			
Aware but do not participate	7	14			
Not aware but would participate	28	23			
Not aware and would not participate	61	43			
Did not respond	4	2			
TOTAL:	102	94			
Which TDM program features do you use?					
I do not participate	87	55			
Guaranteed ride home	1	0			
On-site Charlie Card sales	0	0			
Direct deposit	1	32			
MassRIDES carpool/vanpool matching	0	0			
	0	0			
Bay State Commute (NuRide) program Flexible Work Schedule	2				
		1			
Transit pass subsidy	1	0			
Other/Did not respond	10	6			
TOTAL:	102	94			



As can be seen in Table 8, the current survey indicates that approximately 90 percent of patrons and 94 percent of employees arrive to the Project site alone in a private automobile, with approximately 74 percent of patrons and 65 percent of employees indicating that they were not aware of public transportation or car/vanpool opportunities. The majority of patrons and employees indicated that they would not use or participate in a shuttle program from an off-site parking facility. Similarly, the majority of patrons and employees indicated that they would not walk or bicycle to the Project site if sidewalks and bicycle lanes were available.

Focusing on employees, 24 percent indicated that they were not aware of the corporate TDM program but would participate. This indicates a distinct opportunity to increase employee participation in the TDM program.

SUMMARY

VAI has completed the 2019 Traffic Monitoring Program for the Plainridge Park Casino located at 301 Washington Street (Route 1) in Plainville, Massachusetts, in accordance with the requirements of the MassDOT Section 61 Finding that was issued for the Project. As required therein, the 2019 Traffic Monitoring Program has documented and compared: i) traffic volumes; ii) trip patterns; iii) traffic operations; and iv) safety; along Route 1 and at defined intersections to the conditions that were documented as a part of the 2015 Baseline Study. In addition, a summary of the elements of the TDM program that has been implemented for employees and patrons has been provided, along with the results of an employee and patron survey of travel modes.

Based on a review of the results of the 2019 Traffic Monitoring Program, we have noted the following with respect to the Project:

- The *measured* traffic volumes associated with the Project were found to be approximately four

 (4) percent lower on an average weekday, 52 percent higher during the weekday morning peak-hour, 28 percent higher during the Friday evening peak-hour and four (4) percent higher during the Saturday afternoon peak-hour when compared to the traffic volume *projections* for the Project. As documented herein, sufficient capacity is afforded at the Project site driveway intersection with Route 1 and at the monitored intersections to accommodate the variation in traffic volumes associated with the Project;
- 2. The 2019 observed peak-hour traffic volumes within the study area were found to be similar to the conditions that were documented in the 2015 Baseline Study;
- 3. A review of motor vehicle crash data indicates that the study intersections exhibited similar crash patterns before and after the opening of the Project and, with the exception of the Route 1/ Route 152 intersection, were found to have motor vehicle crash rates that were <u>below</u> both the MassDOT statewide and District averages for a signalized or unsignalized intersection, as appropriate, for the MassDOT Highway Division District in which the intersections are located (District 5);
- 4. The Route 1/Route 152 intersection was found to have experienced a decrease in the number of reported crashes after the opening of the Project (17 crashes in 2015 vs. 10 crashes in 2017); however, the calculated motor vehicle crash rate continues to be <u>above</u> the MassDOT average crash rate (statewide and District 5) for a signalized intersection. The majority of the crashes occurring at the intersection were reported as rear-end type collisions that resulted in property damage only. A Road Safety Audit (RSA) was conducted for this intersection in 2014 as a part of the Project and



a number of the recommendations from the RSA have been implemented. It is likely that these improvements have contributed to the reduction in the number of motor vehicle crashes occurring at the intersection;

- 5. Eighteen motor vehicle crashes were reported to have occurred at the Route 1/Plainridge Park Casino driveway intersection over the 5-year review period, the majority of which occurred on a weekday, involved rear-end type collisions that were attributed to driver error, and resulted in property damage only. The calculated motor vehicle crash rate at the intersection was found to be <u>below</u> the MassDOT average crash rates for a signalized intersection;
- 6. Operating conditions at the majority of the monitored intersections were found to be similar to the conditions that were documented as a part of the 2015 Baseline Study, indicating that the opening of the Project and the associated increase in traffic volumes did not result in a significant increase in motorist delays or vehicle queueing over the conditions that existed prior to the opening of the Project with consideration of the noted traffic volume differentials during the peak hours;
- 7. The intersection of Route 1 at the Plainridge Park Casino driveway was shown to operate at an overall LOS B or better during both the weekday evening and Saturday afternoon peak hours, with all movements reported to be operating at LOS C or better where a LOS of "D" or better is considered "acceptable" operating conditions;
- 8. Approximately 92 percent of patrons and employees arrive to the Project site alone in a private automobile, with approximately 70 percent indicating that they were not aware of public transportation or car/vanpool opportunities. The majority of patrons and employees indicated that they would not use or participate in a shuttle program from an off-site parking facility and would not walk or bicycle to the Project site if sidewalks and bicycle lanes were available; and
- 9. Twenty-four (24) percent of employees indicated that they were not aware of the corporate Transportation Demand Management (TDM) program but would participate. This indicates a distinct opportunity to increase employee participation in the TDM program.

In consideration of these findings, we have concluded that the measured impact of the Project on traffic volumes, trip patterns, motor vehicle crash trends, and traffic operations (levels of service, motorist delays and vehicle queuing) has been relatively minor, with operating conditions at the monitored intersections found to be similar to the conditions that were documented as a part of the 2015 Baseline Study. Further, opportunities exist to increase employee participation in the TDM program and the use of public transportation services and car/vanpool participation by both patrons and employees.

cc: BG, File



APPENDIX

MANUAL TURNING MOVEMENT COUNT DATA PROJECT SITE AUTOMATIC TRAFFIC RECORDER COUNT DATA SEASONAL ADJUSTMENT DATA 2015 BASELINE TRAFFIC-VOLUME NETWORKS MASSDOT CRASH RATE WORKSHEETS CAPACITY ANALYSIS WORKSHEETS EMPLOYEE AND PATRON TRAVEL MODE SURVEY MANUAL TURNING MOVEMENT COUNTS

N/S Street : Route 1 E/W Street: Madison Street City/State : Wrentham, MA Weather : Cloudy

File Name 69640001 Site Code 69640001 Start Date 6/6/2019 Page No 1

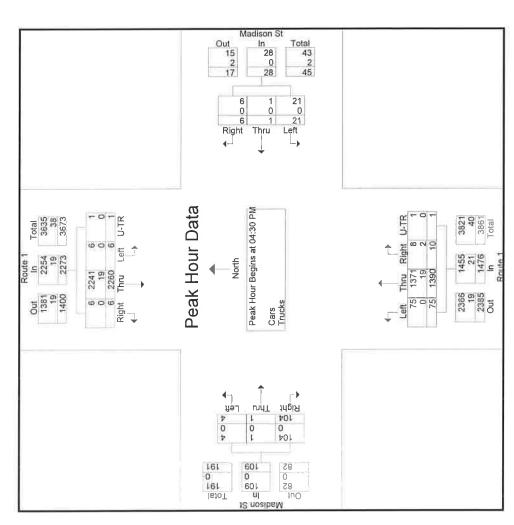
		Route 1 From North	1 vrth		Μ	Madison St From East			Route 1 From South	1 buth		≥u	Madison St From West		
Start Time	Left	Thru	Right	U-TR	Left	Thru	Right	Left	Thru	Right	U-TR	Left	Thru	Right	Int. Total
04:00 PM	-	464	-	0	2	0	4	25	263	2	2	2	0	24	290
04:15 PM	2	530	Ø	0	7	0	2	21	310	2	2	~	0	36	921
04:30 PM	~~	541	2	0	5	0	57	20	346	0	0	0	0	26	942
04:45 PM	-	540	ς	0	2	0	T	20	363	-	0	0	0	24	955
Totat	Ŋ	2075	14	0	16	0	80	86	1282	5	4	ę	0	110	3608
05:00 PM	2	262	0	0	10	0	3	17	340	S	0	2	-	24	1001
05:15 PM	2	582	-	~	4		, .	18	341	4	·	2	0	30	988
05:30 PM	0	558	5	0	۲	0	2	27	289	2		2	0	21	908
05:45 PM	-	519	5	-	0	0	~	19	290	2	0	2	0	35	875
Total	5	2256	.	7	15	æ	7	81	1260	13	5	œ	*	110	3772
06:00 PM	2	516	2	~	n	0	3	14	277	4	0	~	0	20	842
06:15 PM	4	388	ę	0	0	~	~	19	218	2	~	2	0	26	665
06:30 PM	-	345	5	0	ç	0	~	32	193	9	2	0	0	14	602
06:45 PM	0	312	0	0	-	0	0	13	208	4	2	ъ	Ł	1	557
Total	7	1561	10	٣	7	3 5	4	78	896	16	5	ω	2. <u>55</u> 7.)	71	2666
Grand Total	17	5892	35	n	38	7	19	245	3438	34	11	19	2	291	10046
Apprch %	0.3	99.1	0.6	0.1	64.4	3.4	32.2	6.6	92.2	0.9	0.3	6.1	0.6	93.3	
Total %	0.2	58.7	0.3	0	0.4	0	0.2	2.4	34.2	0.3	0.1	0.2	0	2.9	
Cars	17	5836	35	с С	38	2	19	245	3383	31	÷	19	2	290	9931
% Cars	100	66	100	100	100	100	100	100	98.4	91.2	100	100	100	99.7	98.9
Trucks	0	56	0	0	0	0	0	0	55	n	0	0	0	-	115
0/ Trucks	C	~	0	C	c	C	¢	c	(0	¢	c	¢	•	

N/S Street : Route 1 E/W Street: Madison Street City/State : Wrentham, MA Weather : Cloudy

File Name : 69640001 Site Code : 69640001 Start Date : 6/6/2019 Page No : 2

Route 1			Madis	adison St				Route 1				Madi	Madison St	
			From East	East			ц	From South	_			From	From West	
Start Time Left Thru Right U-TR App. Total Left	Le	Ŧ	Thru	Right App. Total	Total	Left	Thru	Right	U-TR	U-TR App. Total	Left	Thru	Right App. Total	Fotal Int. Total
Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1														
Peak Hour for Entire Intersection Begins at 04:30 PM														
0 544		2	0	1	9	20	346	0	0	366	0	0	26	26
0 544		2	0	-	ო	20	363	-	0	384	0	0	24	24
0 599 10	10		0	ы	13	17	340	ŝ	0	362	2	ł	24	27
1 586 4	4		٢		9	18	341	4	-	364	2	0	30	32
1 2273 21	21		~	g	28	75	1390	10	-	1476	4	·	104	109
0 75	75		3.6	21.4		5.1	94.2	0.7	0.1		3.7	0.9	95.4	
250 949 525	.525		.250	.500	.538	.938	.957	.500	.250	-961	-500	.250	.867	.852
1 2254 21	21		-	9	28	75	1371	80	~	1455	4	-	104	109
100 99.2 100	100		100	100	100	100	98.6	80.0	100	98.6	100	100	100	100
0 19 0	0		0	0	0	0	19	2	0	21	0	0	0	0
0 0.8 0	C		0	0	0	0	1.4	20.0	0	1.4	0	0	0	0

> N/S Street : Route 1 E/W Street: Madison Street City/State : Wrentham, MA Weather : Cloudy



Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

27	32	23	37	119		804
24	30	21	35	110	92.4	.786
+	0	0	0	- -	0.8	.250
2	2	2	2	00	6.7	1.000
366	384	362	364	1476		.961
0	0	0	Ł	÷	0.1	.250
0	-	5	4	10	0.7	.500
346	363	340	341	1390	94.2	.957
თ	9	ო	13	31		.596
2	-		ю	7	22.6	583
0	0	0	0	0	0	000
7	Q	2	10	24		
544	599	586	563	2292		957
0	0	-	0	Ļ	0	250
ы	0		5	6	0.4	450
540	597	582	558	2277	99.3	.954
	2	2	0	5	0.2	.625
+0 mins.	+15 mins.	+30 mins	+45 mins.	Total Volume	% App. Total	PHF
	1 540 3 0 544 7 0 2 9 20 346 0 0 366 2 1 24	1 540 3 0 544 7 0 2 9 20 346 0 0 366 2 1 24 2 597 0 0 55 0 1 6 20 363 1 0 384 2 0 30	1 540 3 0 544 7 0 2 346 0 0 366 2 1 24 2 597 0 0 55 0 1 6 20 363 1 0 36 2 1 24 2 597 0 0 5 0 1 6 20 363 1 0 30 2 582 1 1 366 2 0 314 2 0 30 2 582 1 1 340 5 0 362 2 0 21	1 540 3 0 544 7 0 2 346 0 0 366 2 1 24 2 597 0 0 599 5 0 1 6 20 363 1 0 366 2 1 24 2 597 0 0 5 0 1 6 20 363 1 0 384 2 0 30 2 582 1 1 3 17 340 5 0 362 21 30 30 0 558 10 0 3 13 18 341 4 1 364 2 0 21 30 0 553 10 0 3 13 18 341 4 1 364 2 0 21 30 1 5 0 3 13 18 341 4 1 364 2 0 21 21 30 1	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	540 3 0 597 0 0 582 1 1 558 5 0 2277 9 1 99.3 0.4 0

File Name : 69640001 Site Code : 69640001 Start Date : 6/6/2019 Page No : 1

		From North	1 Srth		Σű	Madison St From East			From South	th		ž L	Madison St From West		
Start Time	Left	Thru	Right	U-TR	Left	Thru	Right	Left	Thru	Right	U-TR	Left	Thru	Right	Int. Total
04:00 PM	~	452	÷	0	2	0	4	25	254	-	2	2	0	24	768
04:15 PM	2	523	Ø	0	7	0	2	21	303	2	2	~	0	35	906
04:30 PM		533	2	0	5	0	4	20	339	0	0	0	0	26	927
04:45 PM	~	535	ы	0	2	0	-	20	356	0	0	0	0	24	942
Total	ъ	2043	14	0	16	0	œ	86	1252	e	4	ო	0	109	3543
05:00 PM	2	593	0	0	10	0	e	17	337	4	0	2	~	24	663
05:15 PM	2	580	←	-	4	1		18	339	4	~	2	0	30	984
05:30 PM	0	556	Ω	0	.	0	2	27	285	2	~	2	0	21	902
05:45 PM	~	514	ъ	1	0	0	~	19	287	2	0	2	0	35	867
Total	2	2243	5	2	15		7	81	1248	12	2	ω	-	110	3746
06:00 PM	2	513	2	Ţ	С	0	2	14	275	4	0	-	0	20	837
06:15 PM	4	384	ę	0	0	-	-	19	213	2	-	2	0	26	656
06:30 PM	1	342	5	0	С	0	~	32	191	9	2	0	0	14	597
06:45 PM	0	311	0	0	-	0	0	13	204	4	2	£	~	11	552
Total	7	1550	10	τ	7	T	4	78	883	16	Q	œ	***	71	2642
Grand Total	17	5836	35	т	38	2	19	245	3383	31	5	19	7	290	9931
Apprch %	0.3	99.1	0.6	0.1	64.4	3.4	32.2	6.7	92.2	0.8	0.3	6.1	0.6	93.2	
Total %		0 0 2	Č	¢		¢	(1		0		0	(

Accurate Counts 978-664-2565

> N/S Street : Route 1 E/W Street: Madison Street City/State : Wrentham, MA Weather : Cloudy

File Name : 69640001 Site Code : 69640001 Start Date : 6/6/2019 Page No : : 1

		From North	1 Xth		ĔΨ	Madison St From East			Route 1 From South	_ 1		Ξű	Madison St From West		
Start Time	Left	Thru	Right	U-TR	Left	Thru	Right	Left	Thru	Right	U-TR	Left	Thru	Right	Int. Total
04:00 PM	0	12	0	0	0	0	0	0	6	÷	0	0	0	0	22
04:15 PM	0	7	0	0	0	0	0	0	7	0	0	0	0	4	15
04:30 PM	0	œ	0	0	0	0	0	0	7	0	0	0	0	0	15
04:45 PM	0	ъ	0	0	0	0	0	0	7		0	0	0	0	13
Total	0	32	0	0	0	0	0	0	30	2	0	0	0	.	65
05:00 PM	0	4	0	0	0	0	0	0	ę	~	0	0	0	0	œ
05:15 PM	0	7	0	0	0	0	0	0	2	0	0	0	0	0	4
05:30 PM	0	2	0	0	0	0	0	0	4	0	0	0	0	0	9
05:45 PM	0	ъ	0	0	0	0	0	0	ę	0	0	0	0	0	80
Total	0	13	0	0	0	0	0	0	12	.	0	0	0	0	26
06:00 PM	0	ę	0	0	0	0	0	0	7	0	0	0	0	0	5
06:15 PM	0	4	0	0	0	0	0	0	Ω	0	0	0	0	0	0
06:30 PM	0	ы	0	0	0	0	0	0	2	0	0	0	0	0	5
06:45 PM	0	-	0	0	0	0	0	0	4	0	0	0	0	0	5
Total	0	11	0	0	0	0	0	0	13	0	0	0	0	0	24
Grand Total	0	56	0	0	0	0	0	0	55	ы	0	0	0	4	115
Apprch %	0	100	0	0	0	0	0	0	94.8	5.2	0	0	0	100	
Total %	С	48.7	C	0	0	C	C	C	47.8	2.6	C	C	C	00	

Accurate Counts 978-664-2565

> N/S Street : Route 1 E/W Street: Madison Street City/State : Wrentham, MA Weather : Cloudy

N/S Street : Route 1 E/W Street: Madison Street City/State : Wrentham, MA Weather : Cloudy

File Name : 69640001 Site Code : 69640001 Start Date : 6/6/2019 Page No : 1

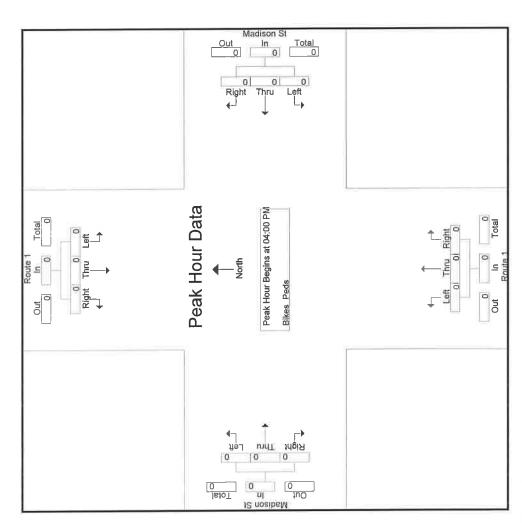
		From Nor	orth			Madison St From East	n St last			From South	te 1 South			Madison St From West	n St lest				
Start Time	Left	Thru Rig	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
06:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Apprch %	0	0	0		0	0	0	_	0	0	0		0	0	0		c	c	

N/S Street : Route 1 E/W Street: Madison Street City/State : Wrentham, MA Weather : Cloudy

File Name : 69640001 Site Code : 69640001 Start Date : 6/6/2019 Page No : 2

		Route 1	te 1			Madis	lison St			Route 1	te 1			Madison St	on St		
		From North	North			From East	East			From	From South			From West	West		
Start Time	Left	Thru	Right	Right App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1	om 04:00 F	³ M to 06:4:	5 PM - Pe	ak 1 of 1													
Peak Hour for Entire Intersection Begins at 04:00 PM	Itersection	Begins at	04:00 PM														
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0		
ЧНЦ	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

N/S Street : Route 1 E/W Street: Madison Street City/State : Wrentham, MA Weather : Cloudy



Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

at:	
Begins	
Approach	
Each	
Hour for	
eak F	

	04:00 PM				04:00 PM				04:00 PM			0	14:00 PM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0			0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0			0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0			0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0			0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0			0
% App. Total	0	0	0		0	0	0		0	0	0		0			
PHF	000	000	000	000	000	000	000-	000.	000. 000.	000-	000	000	000 000	000	000	000

File Name 1 69640001 Site Code 1 69640001 Start Date 1 6/6/2019 Page No 1 3

File Name : 696400S1 Site Code : 69640001 Start Date : 6/8/2019 Page No : 11

		Route 1	- With		Mé	Madison St	son St		Route 1	-		Ma	Madison St		
		From No	hth		٦,	From East			From South			2 L	From West		
Start Time	Left	Thru	Right	U-TR	Left	Thru	Right	Left	Thru	Right	U-TR	Left	Thru	Right	Int. Total
02:00 PM	0	260	5	0	9	0	0	28	239	÷	ę	-	0	27	570
02:15 PM	0	235		0	0	0	0	21	282	ы	4	0	0	16	562
02:30 PM	0	253	. 	0	~	0	0	24	278	-	0		0	11	570
02:45 PM	÷	293	2	0	2	0	n	17	270	4	2	~	0	21	616
Total	, -	1041	6	0	0	0	ę	06	1069	0	0	m	0	75	2318
03:00 PM	4	343	7	0	ო	0	~	26	246	N	N	Ŧ	0	22	649
03:15 PM	0	319	22	0	-	0	÷	23	258	-	т	***	+	26	639
03:30 PM	~	265	2	0	2	0	2	17	292	ы	2		0	16	603
03:45 PM	~	307	0	0		0	Ŧ	22	263	ъ	7	-	0	15	618
Total	M	1234	0	0	2	0	5	88	1059	1	σ	4	÷	29	2509
04:00 PM	-	258	2	0	7	0	2	14	255	2	5	0	0	28	569
04:15 PM	0	256	с	0	2	0	0	15	226	0	0	0	0	00	510
04:30 PM	0	238	4	0	7	-	~	15	250	2	~	0	0	17	531
04:45 PM	0	219	-	0	4	0	0	18	278	7	2	ę	0	22	549
Total	Ţ	10		c	4			ç	0001		4				

6949 99.5 37 0.5

229 95.4 3.3 229 100 0 0

100 0.4 100 0 0 0

10 4.2 0.1 10 0 0 0

26 0.8 0.4 26 100 0 0

26 0.8 0.4 23 23 88.5 88.5 11.5

3137 91.5 44.9 3115 99.3 22 22 0.7

240 7 3.4 240 100 0 0

11 28.9 0.2 11 100 0 0

26 68.4 0.4 26 100 0 0

0000000

28 0.9 0.4 28 100 0 0

3246 99 46.5 3234 99.6 12 0.4

5 0.2 0.1 5 0 0 0

> Cars % Cars

Trucks

% Trucks

Apprch % Total %

Grand Total

6986

Accurate Counts 978-664-2565

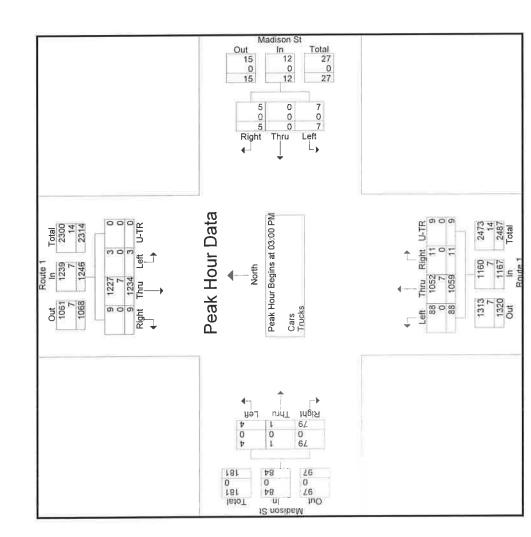
> N/S Street : Route 1 E/W Street: Madison Street City/State : Wrentham, MA Weather : Clear

N/S Street : Route 1 E/W Street: Madison Street City/State : Wrentham, MA Weather : Clear

File Name : 696400S1 Site Code : 69640001 Start Date : 6/8/2019 Page No : 2

		ц	From Morth				Madison St	Madison St Erom East			ū	From South				Madison St Erom Mest	on St Meet		
Start Time Left	Left	Thru	Right		U-TR App. Total	Left	Thru	Right A	Right App. Total	Left	Thru	Right	U-TR App. Total	ip. Total	Left	Thru	Ĕ	App. Total	Int. Total
Peak Hour Analysis From 02:00 PM to 04:45 PM - Peak 1 of 1	rom 02:0	0 PM to (04:45 PM	- Peak 1 c	of 1														
Peak Hour for Entire Intersection Begins at 03:00 PM	Intersecti	on Begin:	s at 03:00	PM															
03:00 PM	-	343	2	0	346	e	0	-	4	26	246	2	2	276	٢	0	22	23	9
03:15 PM	0	319	ŝ	0	324	-	0	-	2	23	258	L	ę	285	***	-	26	28	ö
03:30 PM	-	265	2	0	268	5	0	2	4	17	292	с	2	314	*	0	16	17	00
03:45 PM	-	307	0	0	308	-	0	-	2	22	263	5	2	292	-	0	15	16	618
Total Volume	'n	1234	თ	0	1246	7	0	5	12	88	1059	11	6	1167	4	-	62	84	25(
% App. Total	0.2	66	0.7	0		58.3	0	41.7		7.5	90.7	0.9	0.8		4.8	1.2	94		
HF	.750	899.	.450	000	006.	.583	000.	.625	.750	.846	206.	.550	.750	.929	1.00	.250	.760	.750	996
Cars	e	1227	0	0	1239	7	0	5	12	88	1052	11	6	1160	4	-	5	84	249
% Cars	100	99.4	100	0	99.4	100	0	100	100	100	99.3	100	100	99.4	100	100	100	100	36
Trucks	0	7	0	0	7	0	0	0	0	0	7	0	0	7	0	0	0	0	14
% Trucke	С	0.6	0	0	0.6	0	0	0	0	0	0.7	0	0	0.6	0	0	0	0	0

N/S Street : Route 1 E/W Street: Madison Street City/State : Wrentham, MA Weather : Clear



Peak Hour Analysis From 02:00 PM to 04:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	03:00 PM				5	02:45 PM			0	12:15 PM					02:45 PM			
+0 mins.	-	343	2	0	346	2	0	ę		21	282	ო	4	310	-	0	21	22
+15 mins.	0	319	S	0	324	ę	0	-		24	278	4	0	303	-	0	22	23
+30 mins.	•	265	2	0	268	-	0	-	2	17	270	4	2	293	-	-	26	28
+45 mins.		307	0	0	308	2	0	2		26	246	2	7	276	-	0	16	17
Total Volume		1234	6	0	1246	ŝ	0	7		88	1076	10	œ	1182	4	-	85	06
% App. Total	0.2	66	0.7	0		53.3	0	46.7		7.4	91	0.8	0.7		4,4	1.1	94.4	
HHF	Ċ	899.	.450	000.	006.	.667	000	.583	.750	.846	.954	.625	.500	.953	1.000	.250	.817	.804

Accurate Counts 978-664-2565 File Name : 696400S1 Site Code : 69640001 Start Date : 6/8/2019 Page No : 3

File Name : 696400S1 Site Code : 69640001 Start Date : 6/8/2019 Page No : 1

N/S Street : Route 1 E/W Street: Madison Street City/State : Wrentham, MA Weather : Clear

		From North	e 1 Jorth		2 1	Madison St From East			Route 1 From South	1 uth		Σű	Madison St From West		
Start Time	Left	Thru	Right	U-TR	Left	Thru	Right	Left	Thru	Right	U-TR	Left	Thru	Right	Int. Total
02:00 PM	0	259	S	0	9	0	0	28	237	-	ę	-	0	27	567
02:15 PM	0	235		0	0	0	0	21	279	2	4	0	0	16	558
02:30 PM	0	252	. 	0		0	0	24	275	0	0	~	0	11	565
02:45 PM	÷	293	2	0	2	0	ო	17	267	ę	2	1	0	21	612
Total	-	1039	6	0	ъ	0	e	06	1058	Q	0	ę	0	75	2302
03:00 PM	-	340	7	0	ы	0	~	26	243	2	2	-	0	22	643
03:15 PM	0	319	5	0	-	0		23	257	1	n	***	+	26	638
03:30 PM	-	265	2	0	2	0	2	17	291	с	2	-	0	16	602
03:45 PM	~	303	0	0	-	0	~	22	261	S	2	-	0	15	612
Total	т	1227	თ	0	7	0	Ω.	88	1052	5	ດ	4	and	79	2495
04:00 PM	-	256	2	0	2	0	2	14	255	2	Q	0	0	28	567
04:15 PM	0	256	ę	0	2	0	0	15	223	0	0	0	0	œ	507
04:30 PM	0	237	4	0	2	-	-	15	250	2	-	0	0	17	530
04:45 PM	0	219	-	0	4	0	0	18	277	2	2	ę	0	22	548
Total	N.	968	10	0	10	5 <u>7</u> 5	n	62	1005	9	œ	n	0	75	2152
Grand Total	£	3234	28	0	26	-	11	240	3115	23	26	10		229	6949
Apprch %	0.2	66	0.9	0	68.4	2.6	28.9	7.1	91.5	0.7	0.8	4.2	0.4	95.4	
Total %	10	AG 5	V C	C		C	0	Li C	0 1 1 0	20		ç	c	00	

File Name : 696400S1 Site Code : 69640001 Start Date : 6/8/2019 Page No : 1

N/S Street : Route 1 E/W Street: Madison Street City/State : Wrentham, MA Weather : Clear

		Route 1 From North	orth		Ϋ́	Madison St From East			Route 1 From South	1 uth		Σц	Madison St From West		
Start Time	Left	Thru	Right	U-TR	Left	Thru	Right	Left	Thru	Right	U-TR	Left	Thru	Right	Int. Total
02:00 PM	0		0	0	0	0	0	0	2	0	0	0	0	0	
02:15 PM	0	0	0	0	0	0	0	0	Ю	~	0	0	0	0	
02:30 PM	0	-	0	0	0	0	0	0	ю	~	0	0	0	0	5
02:45 PM	0	0	0	0	0	0	0	0	ო	-	0	0	0	0	
Total	0	2	0	0	0	0	0	0	1	m	0	0	0	0	16
03:00 PM	0	ю	0	0	0	0	0	0	ы	0	0	0	0	0	
03:15 PM	0	0	0	0	0	0	0	0	-	0	0	0	0	0	
03:30 PM	0	0	0	0	0	0	0	0	~	0	0	0	0	0	
03:45 PM	0	4	0	0	0	0	0	0	0	0	0	0	0	0	9
Total	0	2	0	0	0	0	0	0	7	0	0	0	0	0	14
04:00 PM	0	2	0	0	0	0	0	0	0	0	0	0	0	0	
04:15 PM	0	0	0	0	0	0	0	0	С	0	0	0	0	0	
04:30 PM	0	~	0	0	0	0	0	0	0	0	0	0	0	0	
04:45 PM	0	0	0	0	0	0	0	0	-	0	0	0	0	0	
Total	0	ю	0	0	0	0	0	0	4	0	0	0	0	0	
Grand Total	0	12	0	0	0	0	0	0	22	т	0	0	0	0	37
Apprch %	0	100	0	0	0	0	0	0	88	12	0	0	0	0	
Total %	C	105	C	C	C	c	C	c	50 F	0	C	C	C	C	

Accurate Counts 978-664-2565

File Name : 696400S1 Site Code : 69640001 Start Date : 6/8/2019 Page No : 1

N/S Street : Route 1 E/W Street: Madison Street City/State : Wrentham, MA Weather : Clear

		From North	⇒ 1 lorth			Madison St From East	on St East			Route 1 From South	e 1 South			Madison St From West	ר St (est				
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Exclu. Total	Inclu. Total	Int. Total
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	~	-	0	
03:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:45 PM	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	
Total	0	~	0	0	0	0	0	0	0	0	0	0	0	0	0	-	×	-	
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Grand Total	0	~	0	0	0	0	0	0	0	0	0	0	0	0	0	τ.		-	
Apprch %	0	100	0		0	0	0		0	0	0		0	0	0				
Total %	C	100	c		¢	0	c		¢	c	C		(c			C L	

N/S Street : Route 1 E/W Street: Madison Street City/State : Wrentham, MA Weather : Clear

Int. Total Right App. Total 00000 0 0 0 0 0 0 Madison St From West Thru 0 0 0 0 0 0 Left 0000 0 0 Right App. Total 00000 0 0 0 0 0 0 From South Route 1 Thru 0 0 0 0 0 0 0 0 0 0 0 0 Left 00000 Right App. Total 0 0 0 0 0 0 Madison St From East Thru 0 0 0 0 00 Left 0 0 0 0 00 Thru Right App. Total -----Peak Hour Analysis From 02:00 PM to 04:45 PM - Peak 1 of 1 Peak Hour for Entire Intersection Begins at 03:00 PM 0 0 0 0 0 0 From North Route 1 000 --Left 0 0 0 0 0 0 Start Time 03:00 PM Total Volume 03:15 PM 03:30 PM 03:45 PM

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PHF

% App. Total

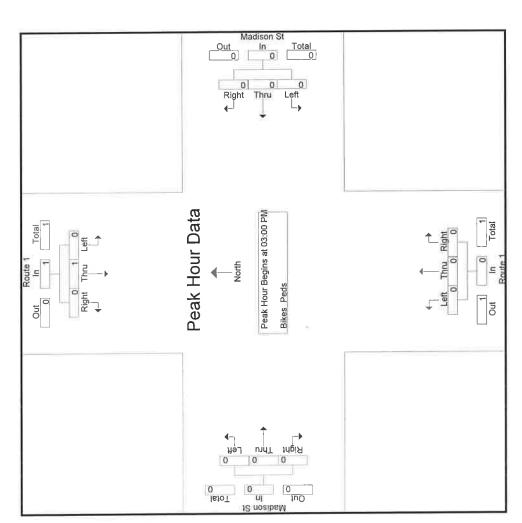
100

File Name | 696400S1 Site Code | 69640001 Start Date | 6/8/2019 Page No | 2

File Name : 696400S1 Site Code : 69640001 Start Date : 6/8/2019 Page No : 3

Accurate Counts 978-664-2565

> N/S Street : Route 1 E/W Street: Madison Street City/State : Wrentham, MA Weather : Clear



Peak Hour Analysis From 02:00 PM to 04:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at: 03:00 PM

0	03:00 PM			0	02:00 PM)	02:00 PM			ö	02:00 PM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0
+15 mins.	0	0	0	0	0	0	0	0		0	0	0		0	0	0
+30 mins.	0	0	0	0	0	0	0	0		0	0	0		0	0	0
+45 mins.	0	-	0	Ļ	0	0	0	0		0	0	0		0	0	0
otal Volume	0	-	0	3 	0	0	0	0	0	0	0	0	0	0	0	
% App. Total	0	100	0		0	0	0			0	0			0	0	
PHF	000	.250	000	250	000.	000	000.	000.		000.	000	000		000.	000.	000

N/S Street : Route 1 E/W Street: Route 495 SB Ramp City/State : Plainville, MA Weather : Cloudy

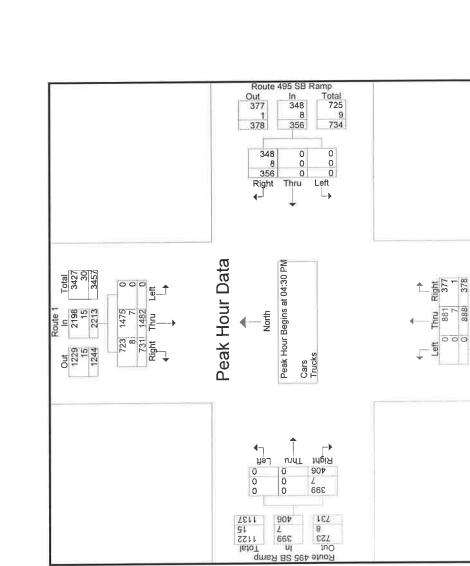
99.2 0.8

File Name : 69640002 Site Code : 69640002 Start Date : 6/6/2019 Page No : 11

N/S Street : Route 1 E/W Street: Route 495 SB Ramp City/State : Plainville, MA Weather : Cloudy

		Rou	Route 1			Route 495	Route 495 SB Ramp	-		Route 1	te 1		1	Route 495 SB Ramp	SB Ramp	C	
		From	From North			From East	East			From South	South			From West	West		
Start Time	Left	Thru	Right	Right App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1	om 04:00 F	^o M to 06:4	5 PM - Pe	ak 1 of 1				×									
Peak Hour for Entire Intersection Begins at 04:30 PM	tersection	Begins at	04:30 PM														
04:30 PM	0	346	190	536	0	0	91	91	0	225	66	324	0	0	101	101	1052
04:45 PM	0	367	155	522	0	0	85	85	0	243	66	342	0	0	96	96	1045
05:00 PM	0	364	184	548	0	0	78	78	0	198	93	291	0	0	67	97	1014
05:15 PM	0	405	202	607	0	0	102	102	0	222	87	309	0	0	112	112	1130
Total Volume	0	1482	731	2213	0	0	356	356	0	888	378	1266	0	0	406	406	4241
% App. Total	0	67	33		0	0	100		0	70.1	29.9		0	0	100		
PHF	000	.915	-905	.911	000.	000	.873	.873	000"	.914	.955	.925	000	000.	906.	906	,938
Cars	0	1475	723	2198	0	0	348	348	0	881	377	1258	0	0	399	399	4203
% Cars	0	99.5	98.9	99.3	0	0	97.8	97.8	0	99.2	99.7	99.4	0	0	98.3	98.3	99.1
Trucks	0	7	80	15	0	0	80	Ø	0	7	-	œ	0	0	7	7	38
% Trucks	0	0.5	1.1	0.7	0	0	2.2	2.2	0	0.8	0.3	0.6	0	0	1.7	1.7	0.0

> N/S Street : Route 1 E/W Street: Route 495 SB Ramp City/State : Plainville, MA Weather : Cloudy



Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1

3132 22 3154 Total

1258 8 1266 In

1874 14 1888 Out

č

Peak Hour for Each Approach Begins at:

	04:45 PM			ö	05:15 PM				04:30 PM			5	04:30 PM			
+0 mins.	0	367	155	522	0	0	102	102	0	225	66	324	0	0	101	101
+15 mins.	0	364	184	548	0	0	92	92	0	243	66	342	0	0	96	96
+30 mins.	0	405	202	607	0	0	84	84	0	198	93	291	0	0	97	67
+45 mins.	0	382	156	538	0	0	84	84	0	222	87	309	0	0	112	112
Fotal Volume	0	1518	697	2215	0	0	362	362	0	888	378	1266	0	0	406	406
% App. Total	0	68.5	31.5		0	0	100		0	70.1	29.9		0	0	100	
ЪНF	000	937	.863	-912	000	000	.887	.887	000	.914	.955	925	000.	000	906.	906.

N/S Street : Route 1 E/W Street: Route 495 SB Ramp City/State : Plainville, MA Weather : Cloudy

	om West Thru Right Int Total		0 95 928	95 108	95 98 88	95 98 95
						~
Left		0	0		0	0 0
Right 88	88		102	00	20	0 0 0
Thru 193	193		182	224		243
C O		C	2	0	0	
Right 67 92	67 92	92		88	81	328
0 0 0				0	0 0	0
Le						
J Right				4 186	4 153	680
The			355	344	364	1374
101		0	0	0	0	C
	Start Time	04:00 PM	04:15 PM	04:30 PM	04:45 PM	Total

N/S Street : Route 1 E/W Street: Route 495 SB Ramp City/State : Plainville, MA Weather : Cloudy

	Ē	Route 1 From North		Route 4 Fro	Route 495 SB Ramp From East	Ramp it		Route 1 From South		Route 4 Fro	Route 495 SB Ramp From West		
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total
04:00 PM	0	ę	00	0	0	4	0	£	ო	0	0	~	20
04:15 PM	0	2	~	0	0	4	0	с	0	0	0	0	10
04:30 PM	0	2	4	0	0	e	0	4	-	0	0	ю	14
04:45 PM	0	ę	2	0	0	4	0	0	0	0	0	-	10
Total	0	10	15	0	0	15	o	£	4	0	0	5	54
05:00 PM	0	0	-	0	0	2	0	2	0	0	0	0	4
05:15 PM	0	2	~	0	0	0	0	4	0	0	0	С	10
05:30 PM	0	2	0	0	0	Υ.	0	~	~	0	0	7	
05:45 PM	0	~	-	0	0		0	-	0	0	0	0	4
Total	0	Ð	n	0	0	ю	0	ω	<i>c</i> -	0	0	Ω	25
06:00 PM	0	0	0	0	0	~	0	0	0	0	0	0	·
06:15 PM	0	0	3	0	0	2	0	0	0	0	0	2	7
06:30 PM	0	0	2	0	0	-	0	0	0	0	0	0	ŝ
06:45 PM	0	0	~	0	0	2	0	0	-	0	0	0	
Total	0	0	Q	0	o	Q	0	0	t.	0	0	7	15
Grand Total	0	15	24	0	0	24	0	13	9	0	0	12	94
Apprch %	0	38.5	61.5	0	0	100	0	68.4	31.6	0	0	100	
Total %	c	0		c	C		0	0.01		c	¢		

N/S Street : Route 1 E/W Street: Route 495 SB Ramp City/State : Plainville, MA Weather : Cloudy

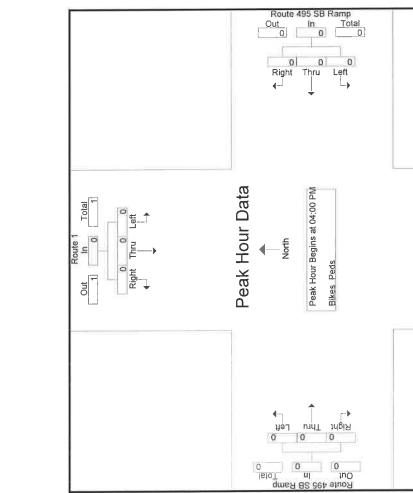
		From North	e 1 Jorth		R	Route 495 SB Ramp From Fact	iB Ramp act			From South	e 1 South		Ro	Route 495 SB Ramp From West	SB Ramp Vect				
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Riaht	Peds	Exclu. Total Inclu. Total	Inclu. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	-	1
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	o	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	Ser.	0	0	0	0	0	0	0	-	-
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Q
Grand Total	0	0	0	0	0	0	0	0	0	~	0	0	0	0	0	0	0	- 1	
Apprch %	0	0	0		0	0	0		0	100	0		0	0	0				
Total %	C	C	C		C	0	C		C	100	C		C	C	C		C	100	

N/S Street : Route 1 E/W Street: Route 495 SB Ramp City/State : Plainville, MA Weather : Cloudy

		From	From North		-	From 1	i East			From South	South		-	From West	From West		
Start Time	Left		Thru Right App. Total	op. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	Right App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1	rom 04:00 l	PM to 06:4	5 PM - Peak	1 of 1									l				
Peak Hour for Entire Intersection Begins at 04:00 PM	ntersection	Begins at	04:00 PM														
04:00 PM	0	0	0	0	0	0	0	0	0		0	٢	0	0	0	0	
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Volume	0	0	0	0	0	0	0	0	0	-	0	-	0	0	0	0	
% App. Total	0	0	0		0	0	0		0	100	0		0	0	0		
HH	000	000	000	000	000	000	000	000	000	.250	000	.250	000	000	000.	000	.250

N/S Street : Route 1 E/W Street: Route 495 SB Ramp City/State : Plainville, MA Weather : Cloudy

Accurate Counts 978-664-2565



Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

Total

5

Out

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Left

04:00 PM 0000 0 0 -000-0 0 0 0 0 0 -000 100 ~ 04:00 PM 0 0 0 0 0 0 00000 00000 0 00000 0 04:00 PM 0 0 0 0 0 0 0000 0 00000 0 00000 0 04:00 PM 0 0 0000 Total Volume % App. Total +15 mins. +30 mins. +45 mins. +0 mins

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N/S Street : Route 1 E/W Street: Route 495 SB Ramp City/State : Plainville, MA Weather : Clear

696400S2 69640002 6/8/2019 1	
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Name Code t Date e No	
File N Site C Start I Page	
LOVE	

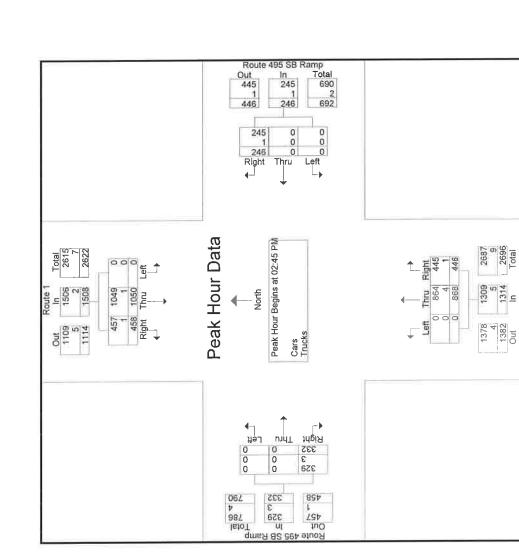
	ц	Route 1 From North		Route 495 From	e 495 SB Ramp From East		— с Щ	From South		Route Fi	Route 495 SB Ramp From West		
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total
02:00 PM	0	225	87	0	0	48	0	179	94	0	0	86	719
02:15 PM	0	222	93	0	0	57	0	214	100	0	0	71	757
02:30 PM	0	225	101	0	0	62	0	212	87	0	0	76	780
02:45 PM	0	273	88	0	0	62	0	237	111	0	0	87	858
Total	0	945	369	0	0	246	0	842	392	0	0	320	3114
03:00 PM	0	272	141	0	0	53	0	211	109	0	0	81	867
03:15 PM	0	258	133	0	0	67	0	198	119	0	0	85	860
03:30 PM	0	247	96	0	0	64	0	222	107	0	0	79	815
03:45 PM	0	246	101	0	0	57	0	212	97	0	0	87	800
Total	0	1023	471	0	0	241	0	843	432	0	0	332	3342
04:00 PM	0	223	102	0	0	62	0	191	22	0	0	64	719
04:15 PM	0	202	74	0	0	57	0	190	105	0	0	58	686
04:30 PM	0	221	80	0	0	74	0	160	72	0	0	66	673
04:45 PM	0	191	91	0	0	61	0	175	94	0	0	81	693
Total	0	837	347	0	0	254	0	716	348	0	0	269	2771
Grand Total	0	2805	1187	0	0	741	0	2401	1172	0	0	921	9227
Apprch %	0	70.3	29.7	0	0	100	0	67.2	32.8	0	0	100	
Total %	0	30.4	12.9	0	0	Ø	0	26	12.7	0	0	10	
Cars	0	2800	1181	0	0	730	0	2389	1169	0	0	917	9186
% Cars	0	99.8	99.5	0	0	98.5	0	99.5	99.7	0	0	99.6	99.6
Trucks	0	5	9	0	0	11	0	12	n	0	0	4	41
D/ Tanala	c	0	1	(

N/S Street : Route 1 E/W Street: Route 495 SB Ramp City/State : Plainville, MA Weather : Clear

File Name:696400S2 Site Code:69640002 Start Date:6/8/2019 Page No :2

		Route 1	te 1 Modb		-	Route 495	SB Ramp	-		Route 1 Erem South	ie 1 Zouth		_	Route 495 SB Ramp	SB Ramp West		
				1		1	Last						2 -	Ī	1.1.	ŀ	
Start Time	Left	Thru	Right	Right App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Ihru	Right	Right App. I otal	Int. I otal
Peak Hour Analysis From 02:00 PM to 04:45 PM - Peak 1 of 1	m 02:00 P	M to 04:4	5 PM - Pe	ak 1 of 1													
Peak Hour for Entire Intersection Begins at 02:45 PM	ersection E	Segins at (32:45 PM														
02:45 PM	0	273	88	361	0	0	62	62	0	237	111	348	0	0	87	87	858
03:00 PM	0	272	141	413	0	0	53	53	0	211	109	320	0	0	81	81	867
03:15 PM	0	258	133	391	0	0	67	67	0	198	119	317	0	0	85	85	860
03:30 PM	0	247	96	343	0	0	64	64	0	222	107	329	0	0	79	79	815
Total Volume	0	1050	458	1508	0	0	246	246	0	868	446	1314	0	0	332	332	340(
% App. Total	0	69.6	30.4		0	0	100		0	66.1	33.9		0	0	100		
PHF	000	.962	.812	.913	000	000	.918	.918	000	.916	.937	.944	000	000	.954	.954	.98
Cars	0	1049	457	1506	0	0	245	245	0	864	445	1309	0	0	329	329	338(
% Cars	0	99.9	99.8	99.9	0	0	93.6	9.66	0	99.5	99.8	9.66	0	0	99.1	99.1	99.7
Trucks	0	-		2	0	0	-	~	0	4	-	5	0	0	с С	n	÷
% Trucks	0	0.1	0.2	0.1	0	0	0.4	0.4	0	0.5	0.2	0.4	0	0	0.9	0.0	0.0

N/S Street : Route 1 E/W Street: Route 495 SB Ramp City/State : Plainville, MA Weather : Clear



Peak Hour Analysis From 02:00 PM to 04:45 PM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

+0 mins. 0 +15 mins. 0			C	UZ:30 PIM				12:40 FINI			-	NI1 C4:20			
+15 mins. (273	88	361	0	0	79	79	0	237	111	348	0	0	87	87
) 272	141	413	0	0	62	62	0	211	109	320	0	0	81	81
+30 mins. (258	133	391	0	0	53	53	0	198	119	317	0	0	85	85
+45 mins. C	247	96	343	0	0	67	67	0	222	107	329	0	0	79	79
tal Volume (1050	458	1508	0	0	261	261	0	868	446	1314	0	0	332	332
App. Total 0		30.4		0	0	100		0	66.1	33.9		0	0	100	
PHF .000		.812	.913	000	000.	.826	.826	000	.916	.937	.944	000	000.	.954	.954

South

File Name ; 696400S2 Site Code ; 69640002 Start Date ; 6/8/2019 Page No ; 3

N/S Street : Route 1 E/W Street: Route 495 SB Ramp City/State : Plainville, MA Weather : Clear

File Name:696400S2 Site Code:69640002 Start Date:6/8/2019 Page No :5

Start Time Left Left 02:00 PM 0 02:15 PM 0 02:30 PM 0 02:45 PM 0 03:15 PM 0 03:15 PM 0 03:15 PM 0 03:30 PM 0 03:45 PM 0	From North Thru		Route 4	195 SB Ramp		L	Route 1		Route	Route 495 SB Ramp		
Left	Thru			From Fast		- 1	From South		ŭ	From West		
	LCC	Right	Left	Thru	Riaht	Left	Thru	Right	Left	Thru	Right	Int. Total
	C77	87	0	0	46	0	178	94	0	0	86	716
	222	93	0	0	56	0	214	100	0	0	71	756
_	225	101	0	0	78	0	210	87	0	0	75	776
	273	88	0	0	61	0	237	111	0	0	87	857
	945	369	0	0	241	0	839	392	0	0	319	3105
	271	141	0	0	53	0	209	109	0	0	79	862
	258	133	0	0	67	0	198	119	0	0	84	859
	247	95	0	0	64	0	220	106	0	0	79	811
	244	98	0	0	55	0	212	97	0	0	87	793
Total	1020	467	0	0	239	0	839	431	0	0	329	3325
04:00 PM 0	222	101	0	0	61	0	191	76	0	0	64	715
04:15 PM 0	202	74	0	0	55	0	187	105	0	0	58	681
04:30 PM 0	221	79	0	0	74	0	159	72	0	0	66	671
04:45 PM 0	190	91	0	0	60	0	174	93	0	0	81	689
Total	835	345	0	0	250	0	711	346	0	0	269	2756
Grand Total	2800	1181	0	0	730	0	2389	1169	0	0	917	9186
Apprch % 0	70.3	29.7	0	0	100	0	67.1	32.9	0	0	100	
Total % 0	30.5	12.9	0	0	7.9	0	26	12.7	0	0	10	

N/S Street : Route 1 E/W Street: Route 495 SB Ramp City/State : Plainville, MA Weather : Clear

	E D	Route 1 From North		Route 4 Fn	Route 495 SB Ramp From East	Ramp t		Route 1 From South		Route 4 Fro	Route 495 SB Ramp From West		
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total
02:00 PM	0	0	0	0	0	2	0		0	0	0	0	e
02:15 PM	0	0	0	0	0	-	0	0	0	0	0	0	~
02:30 PM	0	0	0	0	0	~	0	2	0	0	0	د.	4
02:45 PM	0	0	0	0	0		0	0	0	0	0	0	~
Total	0	0	0	0	0	IJ	0	ო	0	0	0	-	6
03:00 PM	0	-	0	0	0	0	0	7	0	0	0	2	5
03:15 PM	0	0	0	0	0	0	0	0	0	0	0	-	-
03:30 PM	0	0	~	0	0	0	0	2	~	0	0	0	4
03:45 PM	0	2	e	0	0	2	0	0	0	0	0	0	7
Total	0	ť	4	0	0	N	0	4	Ŧ	0	0	n	17
04:00 PM	0	-	۲	0	0	-	0	0	-	0	0	0	4
04:15 PM	0	0	0	0	0	2	0	e	0	0	0	0	5
04:30 PM	0	0	-	0	0	0	0	4	0	0	0	0	7
04:45 PM	0	-	0	0	0	-	0	~	Ŧ	0	0	0	4
Total	0	2	2	0	0	4	0	£	2	0	0	0	15
Grand Total	0	Ω	9	0	0	11	0	12	e	0	0	4	41
Apprch %	0	45.5	54.5	0	0	100	0	80	20	0	0	100	
Totol 0/	c	0	0	(t	000		0.00	0	C		0	

N/S Street : Route 1 E/W Street: Route 495 SB Ramp City/State : Plainville, MA Weather : Clear

File Name | 696400S2 Site Code | 69640002 Start Date | 6/8/2019 Page No | 13

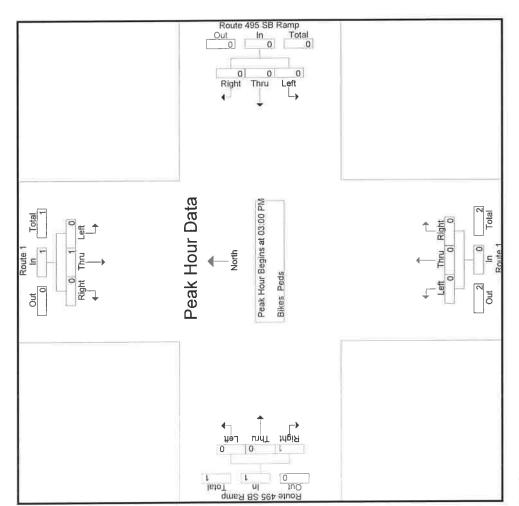
		From North	orth		Ro	Route 495 SB Ramp From East	B Ramp ast			Route 1 From South	e 1 louth		Ж	Route 495 SB Ramp From West	tB Ramp /est				
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Exclu. Total In	Inclu. Total	Int. Total
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45 PM	0	0	Q	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	~	0	-
03:45 PM	0	-	0	0	0	0	0	0	0	0	0	0	0	0		0	0	7	2
Total	0	Ŧ	0	0	0	0	0	0	0	0	0	0	0	0	° § €	~	***	2	ĉ
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	o	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	o	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	-	0	0	0	0	0	0	0	0	0	0	0	0	-	٣	e	2	e
Apprch %	0	100	0		0	0	0		0	0	0		0	0	100				
1011	0	0	•		1	,			1	•	,		3						

N/S Street : Route 1 E/W Street: Route 495 SB Ramp City/State : Plainville, MA Weather : Clear

		From	From North			From East	From East			From South	south			From West	From West		
Start Time	Left	Thru	Right App. Total	op. Total	Left	Thru	ght	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int, Total
Peak Hour Analysis From 02:00 PM to 04:45 PM - Peak 1 of 1	om 02:00 F	M to 04:4	5 PM - Peak	1 of 1											44). 111		
Peak Hour for Entire Intersection Begins at 03:00 PM	Itersection	Begins at (03:00 PM														
03:00 PM	0	0	0	0	0	0	0	0	0	0	Q	0	0	0	0	0	
03:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:45 PM	0	Ţ	0	+	0	0	0	0	0	0	0	0	0	0	ſ	+	
Total Volume:	0	~	0	-	0	0	0	0	0	0	0	0	0	0	-	-	
% App. Total	0	100	0		0	0	0		0	0	0		0	0	100		
PHF	000	250	000	.250	000	000	000	000	000	000	000	000	000	000	.250	.250	.250

N/S Street : Route 1 E/W Street: Route 495 SB Ramp City/State : Plainville, MA Weather : Clear

Accurate Counts 978-664-2565 File Name | 696400S2 Site Code | 69640002 Start Date | 6/8/2019 Page No | 15



Peak Hour Analysis From 02:00 PM to 04:45 PM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

.250 100 .250 0 0 0 -~ 000 000000 03:00 PM 000. 000000 00000 000 000. 000000 000 000 00 0 02:00 PM 0 00000 000 000. 00000 000 00 000 o 000 000 00 0 02:00 PM 000 0 0 0 0 0 0 .250 0 0 0 τ. ~ 000 00000 0 100 0 0 0 ~ 03:00 PM 0 0 0 0 000 0 Total Volume ЧH % App. Total +0 mins. +15 mins. +30 mins. +45 mins.

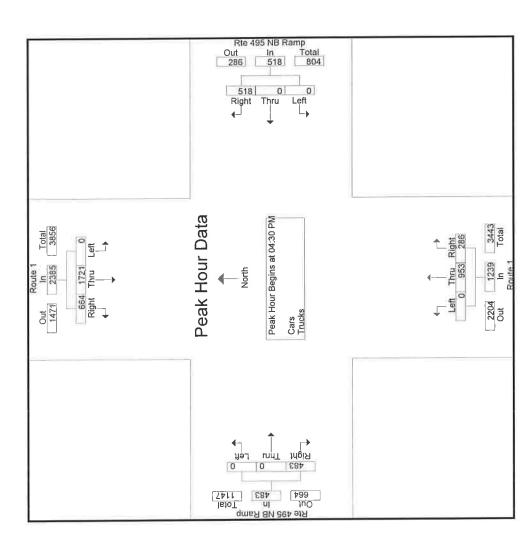
N/S Street : Route 1 E/W Street : Route 495 NB Ramp City/State : Plainville, MA Weather : Cloudy

	L	Route 1 From North		Rte 495 Fron	Z d	B Ramp East		Route 1 From South		Rte 4 Fi	Rte 495 NB Ramp From West		
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total
04:00 PM	0	366	128	0	0	86	0	214	62	0	0	123	626
04:15 PM	0	431	143	0	0	125	0	209	72	0	0	111	1091
04:30 PM	0	407	160	0	0	120	0	244	73	0	0	117	1121
04:45 PM	0	415	162	0	0	141	0	247	75	0	0	115	1155
Total	0	1619	593	0	0	472	0	914	282	0	0	466	4346
05:00 PM	0	439	183	0	0	142	0	217	67	0	0	106	1154
05:15 PM	0	460	159	0	0	115	0	245	71	0	0	145	1195
05:30 PM	0	423	164	0	0	107	0	220	75	0	0	115	1104
05:45 PM	0	398	150	0	0	107	o	203	61	0	0	110	1029
Total	0	1720	656	0	0	471	0	885	274	0	0	476	4482
06:00 PM	0	394	144	0	0	92	0	203	42	0	0	121	966
06:15 PM	0	318	101	0	0	77	0	167	47	0	0	106	816
06:30 PM	0	302	69	0	0	83	0	147	55	0	0	104	760
06:45 PM	0	247	64	0	0	81	0	148	48	0	0	85	673
Total	0	1261	378	0	0	333	0	665	192	0	0	416	3245
Grand Total	0	4600	1627	0	0	1276	0	2464	748	0	0	1358	12073
Apprch %	0	73.9	26.1	0	0	100	0	76.7	23.3	0	0	100	
Total %	0	38.1	13.5	0	0	10.6	0	20.4	6.2	0	0	11.2	
Cars	0	4572	1598	0	0	1247	0	2435	740	0	0	1345	11937
% Cars	0	99.4	98.2	0	0	97.7	0	98.8	98.9	0	0	66	98.9
Trucks	0	28	29	0	0	29	0	29	œ	0	0	13	136
0/ T	c	0	(·							,	-	

N/S Street : Route 1 E/W Street : Route 495 NB Ramp City/State : Plainville, MA Weather : Cloudy

		Rol	Route 1							Froute 1	Froute 1			Rte 495 NB Ramp	IB Kamp		
		LIOLI									IIInne				VCSL		
Start Time	Left	Thru	Right	Thru Right App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1	om 04:00 F	^o M to 06:4	5 PM - Pe	ak 1 of 1													
Peak Hour for Entire Intersection Begins at 04:30 PM	tersection	Begins at	04:30 PM														
04:30 PM	0	407	160	567	0	0	120	120	0	244	73	317	0	0	117	117	1121
04:45 PM	0	415	162	577	0	0	141	141	0	247	75	322	0	0	115	115	1155
05:00 PM	0	439	183	622	0	0	142	142	0	217	67	284	0	0	106	106	115
05:15 PM	0	460	159	619	0	0	115	115	0	245	71	316	0	0	145	145	119
Fotal Volume	0	1721	664	2385	0	0	518	518	0	953	286	1239	0	0	483	483	462
% App. Total	0	72.2	27.8		0	0	100		0	76.9	23.1		0	0	100		
PHF	000	935	907	959	000	000	.912	.912	000	.965	.953	.962	000	000.	.833	.833	.968

> N/S Street : Route 1 E/W Street : Route 495 NB Ramp City/State : Plainville, MA Weather : Cloudy



Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

		115 115					847
		0					000
05:15 PM	0	0	0	0	0		
0	317	322	284	316	1239		06.7
	73	75	67	71	286	23.1	053
	244	247	217	245	953	76.9	ORF
04:30 PM	0	0	0	0	0	0	000
0	125	120	141	142	528		030
	125	120	141	142	528	100	030
	0	0	0	0	0	0	000
04:15 PM	0	0	0	0	0	0	000
Ò	577	622	619	587	2405		067
	162	183	159	164	668	27.8	010
	415	439	460	423	1737	72.2	044
04:45 PM	0	0	0	0	0	0	000
)	+0 mins.	+15 mins	+30 mins.	+45 mins.	Total Volume	% App. Total	DUC

N/S Street : Route 1 E/W Street : Route 495 NB Ramp City/State : Plainville, MA Weather : Cloudy

		Route 1		Rte 45	Rte 495 NB Ramp		-	Route 1		Rte 4	Rte 495 NB Ramp		
		From North		Ţ	From East		чЦ	From South		Ŀ	From West		
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total
04:00 PM	0	359	123	0	0	81	0	209	62	0	0	119	953
04:15 PM	0	428	138	0	0	122	0	205	69	0	0	110	1072
04:30 PM	0	402	157	0	0	117	0	240	73	0	0	116	1105
04:45 PM	0	411	161	0	0	137	0	243	75	0	0	114	1141
Total	0	1600	579	0	0	457	0	897	279	0	0	459	4271
05:00 PM	0	439	179	0	0	141	0	214	67	0	0	105	1145
05:15 PM	0	458	159	0	0	114	0	244	68	0	0	144	1187
05:30 PM	0	423	162	0	0	104	0	219	74	0	0	113	1095
05:45 PM	0	397	146	0	0	105	0	202	60	0	0	109	1019
Total	0	1717	646	0	0	464	0	879	269	0	0	471	4446
06:00 PM	0	394	141	0	0	91	0	202	42	0	0	120	066
06:15 PM	0	314	101	0	0	75	0	164	47	0	0	106	807
06:30 PM	0	301	67	0	0	81	0	147	55	0	0	104	755
06:45 PM	0	246	64	0	0	79	0	146	48	0	0	85	668
Total	0	1255	373	0	0	326	0	659	192	0	0	415	3220
Grand Total	0	4572	1598	0	0	1247	0	2435	740	0	0	1345	11937
Apprch %	0	74.1	25.9	0	0	100	0	76.7	23.3	0	0	100	
Total 0/	C	000	· C ·	c	c		c		0	c	•		

N/S Street:Route 1 E/W Street:Route 495 NB Ramp City/State :Plainville, MA Weather :Cloudy

	Ē	From North		Rte 4: Fr	Rte 495 NB Ramp From East		F Fro	Route 1 From South		Rte 4	Rte 495 NB Ramp From West		8
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total
04:00 PM	0	7	5	0	0	S	0	Ω	0	0	0	4	26
04:15 PM	0	С	5	0	0	n	0	4	ю	0	0	1	19
04:30 PM	0	ŝ	e	0	0	ო	0	4	0	0	0	-	16
04:45 PM	0	4	~	0	0	4	0	4	0	0	0	~	14
Total	0	19	14	0	0	15	0	17	m	0	0	7	75
05:00 PM	0	0	4	o	0	-	0	ი	0	0	0	~	6
05:15 PM	0	2	0	0	0	~	0	~-	e	0	0	~	00
05:30 PM	0	0	2	0	0	က	0	-		0	0	2	6
05:45 PM	0	4	4	0	0	2	0	4	-	0	0	~-	10
Total	0	m	10	0	0	7	0	9	5	0	0	5	36
	c	c	¢	c	c	Ţ	c	Ŧ	c	c	C	*	Υ Υ
	C	5	0	0	0	- 1) (- () (o () (• •	, (
06:15 PM	0	4	0	0	0	77	0	n	0	0	0	C	ת
06:30 PM	0	-	2	0	0	2	0	0	0	0	0	0	£
06:45 PM	0	-	0	0	0	2	0	7	0	0	0	0	5
Total	0	Q	Q	0	0	7	0	Q	0	0	0	~	25
Grand Total	0	28	29	0	0	29	0	29	Ø	0	0	13	136
Apprch %	0	49.1	50.9	0	0	100	0	78.4	21.6	0	0	100	
Total %	C	206	213	C	C	213	c	213	5.9	С	C	96	

N/S Street : Route 1 E/W Street : Route 495 NB Ramp City/State : Plainville, MA Weather : Cloudy

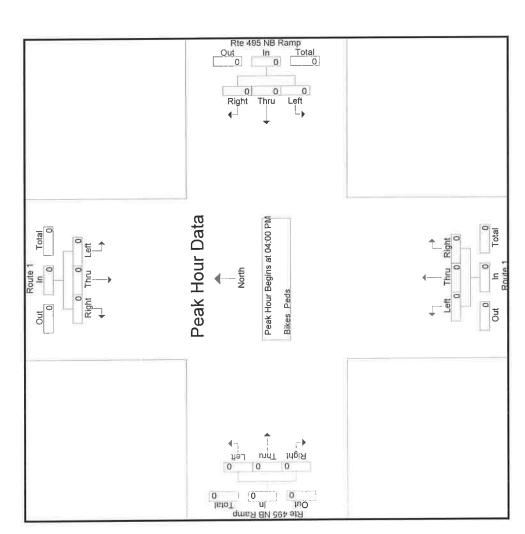
Start Time 04:00 PM		From North	e 1 orth		с	Rte 495 NB Ramp From East	s Ramp ast			From South	e 1 South		LE.	Rte 495 NB Ramp From West	8 Ramp /est				
)4:00 PM	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Exclu. Total	Inclu. Total	Int. Total
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apprch % Total %	0	0	0		0	0	0		0	0	0		0	0	0		0	0	

N/S Street : Route 1 E/W Street : Route 495 NB Ramp City/State : Plainville, MA Weather : Cloudy

		From	From North			From	From East			From South	South			From West	From West		
Start Time	Left	Thru	Right	Right App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1	om 04:00 F	M to 06:4	5 PM - Pe	ak 1 of 1									9		-		
Peak Hour for Entire Intersection Begins at 04:00 PM	tersection	Begins at	04:00 PM														
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0		
HHH	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

File Name:69640003 Site Code:69640003 Start Date:6/6/2019 Page No :15

N/S Street : Route 1 E/W Street : Route 495 NB Ramp City/State : Plainville, MA Weather : Cloudy



Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

-																
0	04:00 PM			0	04:00 PM				04:00 PM			0	04:00 PM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Û
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0	
ЪНF	000	000	000*	000	000	000	000.	000	000	000	000	000	000.	000	000	000-

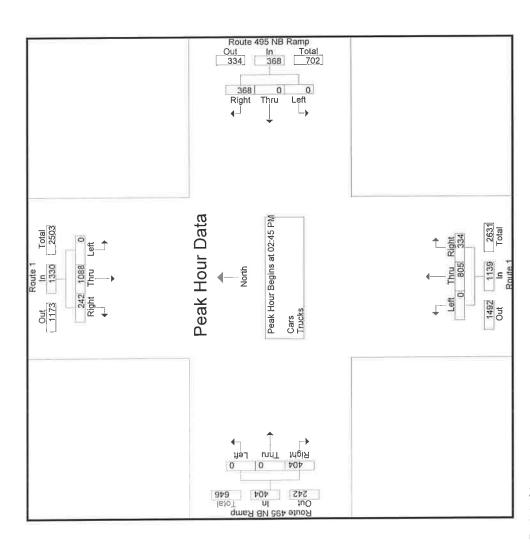
N/S Street : Route 1 E/W Street : Route 495 NB Ramp City/State : Plainville, MA Weather : Clear

	щ	From North		Route 4 Fro	Route 495 NB Ramp From East		— ц	Route 1 From South		Route F	Route 495 NB Ramp From West	0	
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total
	0	248	54	0	0	116	0	159	75	0	0	97	749
	0	194	59	0	0	116	0	193	65	0	0	84	711
	0	206	53	0	0	93	0	207	85	0	0	103	747
	0	264	59	0	0	88	0	210	92	0	0	96	808
	0	912	225	0	0	413	0	769	317	0	o	380	3016
	0	320	56	0	0	78	0	198	82	0	0	<u>.</u> 	845
	0	283	60	0	0	104	0	177	78	0	0	85	787
	0	221	67	0	0	98	0	220	82	0	0	112	800
	Q	258	64	0	0	94	0	199	68	0	0	97	780
Total	0	1082	247	0	0	374	0	794	310	0	0	405	3212
	0	242	50	0	0	94	0	180	73	0	0	77	716
	0	211	57	0	0	67	0	180	77	0	0	62	671
	0	215	51	0	0	94	0	170	53	0	0	101	684
	0	186	55	0	0	114	0	184	63	0	0	89	691
Total	0	854	213	0	0	369	0	714	266	0	0	346	2762
Grand Total	0	2848	685	0	0	1156	0	2277	893	0	0	1131	0668
Apprch %	0	80.6	19.4	0	0	100	0	71.8	28.2	0	0	100	
Total %	0	31.7	7.6	0	0	12.9	0	25.3	9.9	0	0	12.6	
Cars	0	2839	682	0	0	1145	0	2263	884	0	0	1128	8941
% Cars	0	99.7	99.66	0	0	66	0	99.4	66	0	0	99.7	99.5
Trucks	0	ດ	ю	0	0	11	0	14	ດ	0	0	e	49
	c	с С		c	c	3	c	30	Ŧ	c	c	0	20

N/S Street : Route 1 E/W Street : Route 495 NB Ramp City/State : Plainville, MA Weather : Clear

		From	From North			Koute 495 From	o NB Kamp n East	0		From South	te 1 South		-	Route 495 NB Ramp From West	West	0	
Start Time	Left	Thru	Right	Right App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 02:00 PM to 04:45 PM - Peak 1 of 1	m 02:00 F	-M to 04:4	5 PM - Pe	ak 1 of 1													
Peak Hour for Entire Intersection Begins at 02:45 PM	tersection	Begins at	02:45 PM														
02:45 PM	0	264	59	323	0	0	88	88	0	210	92	302	0	0	96	96	808
03:00 PM	0	320	56	376	0	0	78	78	0	198	82	280	0	0	111	111	845
03:15 PM	0	283	60	343	0	0	104	104	0	177	78	255	0	0	85	85	787
03:30 PM	0	221	67	288	0	0	98	98	0	220	82	302	0	0	112	112	800
Total Volume	0	1088	242	1330	0	0	368	368	0	805	334	1139	0	0	404	404	324
% App. Total	0	81.8	18.2		0	0	100		0	70.7	29.3		0	0	100		
HF	000	850	903	.884	000	000	.885	.885	000	.915	908.	.943	000	000.	.902	.902	.959

> N/S Street : Route 1 E/W Street : Route 495 NB Ramp City/State : Plainville, MA Weather : Clear



Peak Hour Analysis From 02:00 PM to 04:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	02:45 PM			0	02:00 PM				02:45 PM			0	03:00 PM			
+0 mins	0	264	59	323	0	0	116	116	0	210	92	302	0	0	111	111
+15 mins	0	320	56	376	0	0	116	116	0	198	82	280	0	0	85	85
+30 mins.	0	283	60	343	0	0	93	93	0	177	78	255	0	0	112	112
+45 mins	0	221	67	288	0	0	88	88	0	220	82	302	0	0	97	97
otal Volume	0	1088	242	1330	0	0	413	413	0	805	334	1139	0	0	405	405
App. Total	0	81.8	18,2		0	0	100		0	70,7	29.3		0	0	100	
PHF	000	850	903	.884	000	000	.890	.890	000	.915	.908	.943	000.	000	.904	904

N/S Street : Route 1 E/W Street : Route 495 NB Ramp City/State : Plainville, MA Weather : Clear

		Route 1		Route	Route 495 NB Ramp		Ľ	Route 1		Route	Route 495 NB Ramp		
		-rom North			From East		- 044	From South			From west		
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Lett	l hru	Right	Int. I otal
02:00 PM	0	247	54	0	0	114	0	159	74	0	0	67	745
02:15 PM	0	194	59	0	0	115	0	190	64	0	0	84	706
02:30 PM	0	206	52	0	0	06	0	206	84	0	0	103	741
02:45 PM	0	264	59	0	0	85	0	209	92	0	0	96	805
Total	0	911	224	0	0	404	0	764	314	0	0	380	2997
03:00 PM	0	319	54	0	0	77	0	196	82	0	0	111	839
03:15 PM	0	283	60	0	0	103	0	177	78	0	0	85	786
03:30 PM	0	221	67	0	0	98	0	219	81	0	0	111	197
03:45 PM	0	254	64	0	0	94	0	197	68	0	0	96	773
Total	0	1077	245	0	0	372	0	789	309	0	0	403	3195
04-00 PM	C	240	50	0	0	94	0	180	72	0	0	77	713
04:15 PM	0	211	57	0	0	67	0	177	75	0	0	79	666
04:30 PM	0	214	51	0	0	94	0	170	52	0	0	101	682
04:45 PM	0	186	55	0	0	114	0	183	62	0	0	88	683
Total	0	851	213	0	0	369	0	710	261	0	0	345	2749
Grand Total	0	2839	682	0	0	1145	0	2263	884	0	0	1128	8941
Apprch %	0	80.6	19.4	0	0	100	0	71.9	28.1	0	0	100	
Tatal 0/	c	0 10	7 6	c	c	0 0 7	c	0.10	0	c	c	007	

N/S Street : Route 1 E/W Street : Route 495 NB Ramp City/State : Plainville, MA Weather : Clear

					Group	Groups Printed- Trucks	Icks						
	Ē	From North		Route 4	Route 495 NB Ramp From East			Route 1 From South		Route	Route 495 NB Ramp From West		
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total
02:00 PM	0	1	0	0	0	2	0	0	-	0	0	0	4
02:15 PM	0	0	0	0	0	-	0	б	~	0	0	0	5
02:30 PM	0	0	~	0	0	ς	0	-	-	0	0	0	9
02:45 PM	0	0	0	0	0	εņ	0		0	0	0	0	4
Total	0	÷	377	0	0	σ	0	2J	ę	0	0	0	19
03:00 PM	0	-	2	0	0	~	0	N	0	0	0	0	9
03:15 PM	0	0	0	0	0	۳	0	0	0	0	0	0	-
03:30 PM	0	0	0	0	0	0	0	~	-	0	0		e
03:45 PM	0	4	0	0	0	0	0	2	0	0	0	1	7
Total	0	5	2	0	0	2	0	Q	T	0	0	8	17
04:00 PM	0	2	0	0	0	0	0	0	۲	0	0	0	ы
04:15 PM	0	0	0	0	0	0	0	ы	2	0	0	0	5
04:30 PM	0	~	0	0	0	0	0	0	~	0	0	0	2
04:45 PM	0	0	0	0	0	0	0	1	~	0	0	•-	ю
Total	0	ю	0	0	0	0	0	4	5	0	0	kaner N	13
Grand Total	0	6	ę	0	0	11	0	14	6	0	0	e	49
Apprch %	0	75	25	0	0	100	0	60.9	39.1	0	0	100	
Totol 0/	c												

N/S Street : Route 1 E/W Street : Route 495 NB Ramp City/State : Plainville, MA Weather : Clear

Start Time 02:00 PM			_		Ro	Route 495 NB Ramp	IB Ramp			Route 1	e 1		Ro	Route 495 NB Ramp	VB Ramp				
Start Time 02:00 PM		From North	orth			From East	ast			From South	South			From West	Vest				
02:00 PM	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Exclu. Total	Exclu. Total Inclu Total	Int. Total
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:15 PM	0	0	0	0	0	0	O	0	0	0	0	0	0	0	0	٣	1	0	,
03:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	o	o	0	0	0	0	0	0	0	0	0	0	0	0	0	-		0	
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	~	F	0	
Apprch % Total %	0	0	0		0	0	0		0	0	0		0	0	0		100	0	

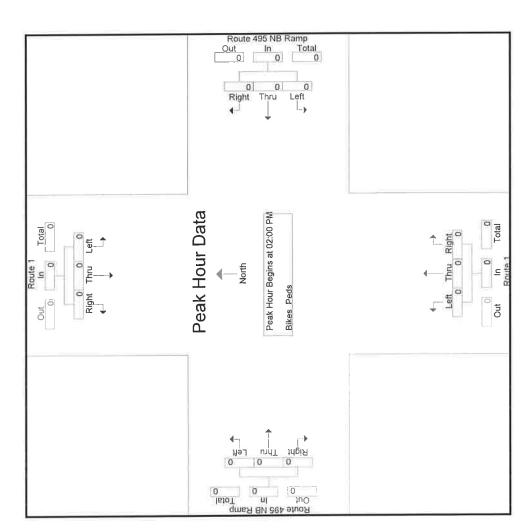
N/S Street : Route 1 E/W Street : Route 495 NB Ramp City/State : Plainville, MA Weather : Clear

		Rol	Route 1		-	Route 495	NB Ramp			Route 1	te 1		-	Route 495 NB Ramp	NB Ramp		
		From	From North			From	East			From South	South			From West	West		
Start Time	Left	Thru	Right	Right App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 02:00 PM to 04:45 PM - Peak 1 of 1	om 02:00 F	^o M to 04:4	15 PM - Pea	ik 1 of 1									-				
Peak Hour for Entire Intersection Begins at 02:00 PM	Itersection	Begins at	02:00 PM														
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	Q	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0		
HHH	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

File Name:696400C3 Site Code:69640003 Start Date:6/8/2019 Page No :15

Accurate Counts 978-664-2565

N/S Street : Route 1 E/W Street : Route 495 NB Ramp City/State : Plainville, MA Weather : Clear



Peak Hour Analysis From 02:00 PM to 04:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

02:00	02:00 PM)	02:00 PM			0	02:00 PM			0	02:00 PM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0	
PHF	000	000	000	000.	000	000	000	000	000	000.	000	000	000	000	000	000

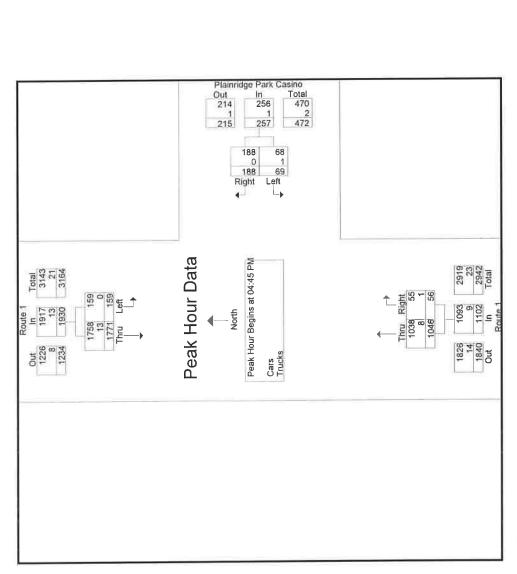
N/S Street : Route 1 E/W Street: Plainridge Park Casino City/State : Plainville, MA Weather : Cloudy

	Route 1 From North		Plainridge Park Casino From East		Route 1 From South		
Start Time	Left	Thru	Left	Right	Thru	Right	Int. Total
04:00 PM	34	373	17	41	233	22	720
04:15 PM	36	429	16	49	245	15	790
04:30 PM	33	407	13	46	286	19	804
04:45 PM	37	421	18	49	261	10	796
Total	140	1630	64	185	1025	66	3110
05:00 PM	37	438	19	45	277	17	833
05:15 PM	42	463	17	50	257	13	842
05:30 PM	43	449	15	44	251	16	818
05:45 PM	40	408	14	49	209	15	735
Total	162	1758	65	188	994	61	3228
06:00 PM	55	396	15	32	172	15	
06:15 PM	37	341	16	52	183	16	645
06:30 PM	44	316	22	39	193	14	
06:45 PM	62	245	14	43	160	23	
Total	198	1298	67	166	708	68	2505
Grand Total	500	4686	196	539	2727	195	8843
Apprch %	9.6	90.4	26.7	73.3	93.3	6.7	
Total %	5.7	53	2.2	6.1	30.8	2.2	
Cars	500	4659	195	539	2708	194	8795
% Cars	100	99.4	99.5	100	99.3	99.5	99.5
Trucks	0	27	t	0	19	**	
0/ Trucko	c	0	30	c		4	

N/S Street : Route 1 E/W Street: Plainridge Park Casino City/State : Plainville, MA Weather : Cloudy

		Route 1 From North		Plainri	Plainridge Park Casino From East	0		Route 1 From South		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1	o 06:45 PM - Pe	ak 1 of 1								
Peak Hour for Entire Intersection Begins at 04:45 PM	ins at 04:45 PM									
04:45 PM	37	421	458	18	49	67	261	10	271	796
05:00 PM	37	438	475	19	45	64	277	17	294	833
05:15 PM	42	463	505	17	50	67	257	13	270	842
05:30 PM	43	449	492	15	44	59	251	16	267	818
Total Volume	159	1771	1930	69	188	257	1046	56	1102	3289
% App. Total	8.2	91.8		26.8	73.2		94.9	5.1		
PHF	.924	.956	.955	908	,940	.959	-944	.824	.937	272
Cars	159	1758	1917	68	188	256	1038	55	1093	3266
% Cars	100	99.3	99.3	98.6	100	93.6	99.2	98.2	99.2	99.3
Trucks	0	13	13	-	0	£	80	-	Ø	23
% Trucks	0	0.7	0.7	1.4	0	0.4	0.8	1.8	0.8	0.7

> N/S Street : Route 1 E/W Street: Plainridge Park Casino City/State : Plainville, MA Weather : Cloudy



Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1

at:
Begins
Approach
ak Hour for Each
Ъе

	04:45 PM			04:30 PM		0	04:30 PM		
+0 mins.	37	421	458	13	46	59	286	19	305
+15 mins.	37	438	475	18	49	67	261	10	271
+30 mins.	42	463	505	19	45	64	277	17	294
+45 mins.	43	449	492	17	50	67	257	13	270
Total Volume		1771	1930	67	190	257	1081	59	1140
% App. Tota		91.8		26.1	73.9		94.8	5.2	
PHF	.924	.956	.955	.882	.950	.959	.945	.776	.934

	Isino		
N/S Street : Route 1	E/W Street: Plainridge Park Casino	City/State : Plainville, MA	Weather : Cloudy

From North

File Name:69640004 Site Code :69640004 Start Date :6/6/2019 Page No :9			Int. Total	œ	5	7	4	24	ы	11	5	2	21	o	2	0	÷	ы	48		
			Right	0	0	0	0	0	-	0	0	0	×	0	0	0	0	0	1	ъ	2.1
		Route 1 From South	Thru	4	3	2	0	σ	2	5	-	£	σ	0	0	0	۲-	۰.	19	95	39.6
		0	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Groups Printed- Trucks	Plainridge Park Casino From East	Left	0	0	0	0	0	0	1	0	0	~	0	0	0	0	0		100	2.1
	ซิ		Thru	4	N	5	4	15	0	5	4	1	10	0	0	0	0	N	27	100	56.2
		Route 1 From North	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N/S Street : Route 1 E/W Street: Plainridge Park Casino City/State : Plainville, MA Weather : Cloudy			Start Time	04:00 PM	04:15 PM	04:30 PM	04:45 PM	Total	05:00 PM	05:15 PM	05:30 PM	05:45 PM	Total	06:00 PM	06:15 PM	06:30 PM	06:45 PM	Total	Grand Total	Apprch %	Total %
N/S Stree E/W Stree City/State Weather																					

Accura 978-

File Name:69640004 Site Code:69640004 Start Date:6/6/2019 Page No :13

N/S Street : Route 1 E/W Street: Plainridge Park Casino City/State : Plainville, MA Weather : Cloudy

	L	From North		Plainridç Fr	Plainridge Park Casino From East	0	- 2 <u>4</u>	Route 1 From South				
Start Time	Left	Thru	Peds	Left	Right	Peds	Thru	Right	Peds	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	۲	0	0	0	0	0	0	0	0	-	1
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	-	0	0	0	0	0	0	0	0	5-	-
06:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
06:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
06:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
06:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	-	0	0	0	0	0	0	0	0	<u>.</u>	
Apprch %	0	100		0	0		0	0				
Total %	0	100		C	C		C	C		С	100	

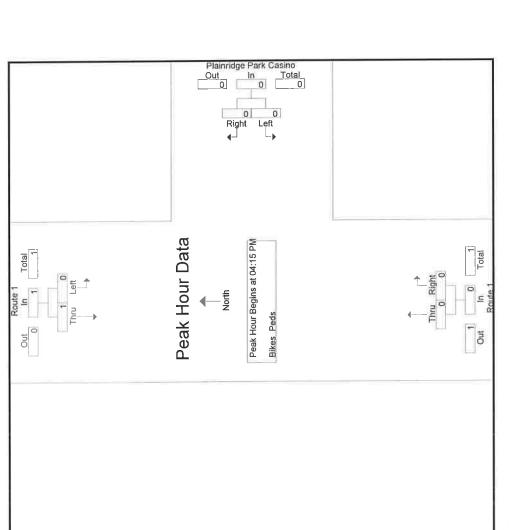
N/S Street : Route 1 E/W Street: Plainridge Park Casino City/State : Plainville, MA Weather : Cloudy

Accurate Counts 978-664-2565

	1.000	From North		Plainr	Plainridge Park Casino From East	0		From South		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1	I to 06:45 PM - Pe	ak 1 of 1								
Peak Hour for Entire Intersection Begins at 04:15 PM	sgins at 04:15 PM									
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	-	-	0	0	0	0	0	0	£
Total Volume	0	-	-	0	0	0	0	0	0	~
% App. Total	0	100		0	0		0	0		
HHE	000	.250	.250	000	000.	000	000	000.	000	.250

> N/S Street : Route 1 E/W Street: Plainridge Park Casino City/State : Plainville, MA Weather : Cloudy

File Name = 69640004 Site Code = 69640004 Start Date = 6/6/2019 Page No = 15



Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

-									
04:1	04:15 PM		Ó	04:00 PM			04:00 PM		
+0 mins.	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0
+45 mins.	0			0	0	0	0	0	0
Total Volume	0	-	÷	0	0	0	0	0	0
% App. Total	0	100		0	0		0	0	
HHF	000	.250	.250	000.	000*	000	000	000	000.

File Name : 696400S4 Site Code : 69640004 Start Date : 6/8/2019 Page No : 11

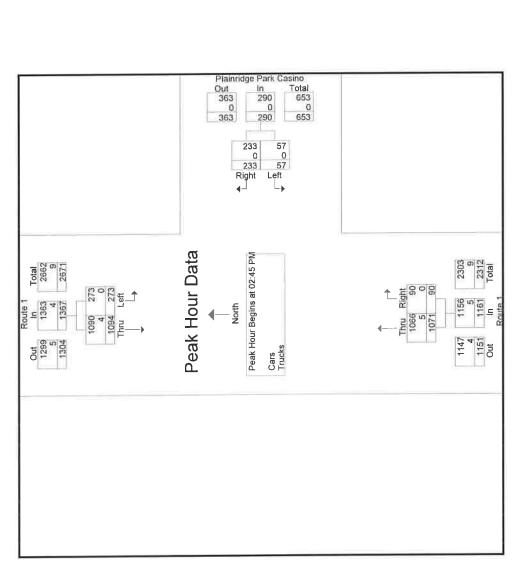
N/S Street : Route 1 E/W Street: Plainridge Park Casino City/State : Plainville, MA Weather : Clear

	From North		Plainridge Park Casino From Fast	0	From South		
Start Time	Left	Thru	Left	Riaht	Thru	Riaht	Int. Total
02:00 PM	72	232	16	56	219	18	613
02:15 PM	62	230	13	44	273	22	644
02:30 PM	58	256	21	47	250	24	656
02:45 PM	70	272	12	54	313	29	750
Total	262	066	62	201	1055	63	2663
03:00 PM	76	284	10	52	246	18	686
03:15 PM	56	288	19	58	265	23	209
03:30 PM	71	250	16	69	247	20	673
03:45 PM	72	254	17	66	252	21	682
Total	275	1076	62	245	1010	82	2750
04:00 PM	56	236	16	59	213	25	605
04:15 PM	47	209	24	76	199	19	574
04:30 PM	59	232	23	55	193	40	602
04:45 PM	66	216	16	52	214	20	584
Total	228	893	62	242	819	104	2365
Grand Total	765	2959	203	688	2884	279	7778
Apprch %	20.5	79.5	22.8	77.2	91.2	8.8	
Total %	9.8	38	2.6	8.8	37.1	3.6	
Cars	765	2951	203	688	2869	279	7755
% Cars	100	99.7	100	100	99.5	100	99.7
Trucks	0	œ	0	0	15	0	
0/ T=	c	0	c	c		c	

N/S Street : Route 1 E/W Street: Plainridge Park Casino City/State : Plainville, MA Weather : Clear

		Route 1 From North		Plain	Plainridge Park Casino From East	0		Route 1 From South		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 02:00 PM to 04:45 PM - Peak 1 of 1	to 04:45 PM - Pe:	ak 1 of 1								
Peak Hour for Entire Intersection Begins at 02:45 PM	jins at 02:45 PM									
02:45 PM	20	272	342	12	54	99	313	29	342	75(
03:00 PM	76	284	360	10	52	62	246	18	264	686
03:15 PM	56	288	344	19	58	77	265	23	288	20
03:30 PM	71	250	321	16	69	85	247	20	267	67:
Total Volume	273	1094	1367	57	233	290	1071	06	1161	2818
% App. Total	20	80		19.7	80.3		92.2	7.8		
PHF	898.	.950	.949	.750	.844	.853	.855	.776	.849	.93
Cars	273	1090	1363	57	233	290	1066	06	1156	280
% Cars	100	99.6	99.7	100	100	100	99.5	100	99.6	66
Trucks	0	4	4	0	0	0	5	0	5	6
% Trucks	0	0.4	0.3	0	0	0	0.5	0	0.4	0

> N/S Street : Route 1 E/W Street: Plainridge Park Casino City/State : Plainville, MA Weather : Clear



Peak Hour Analysis From 02:00 PM to 04:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	295	274	342	264	1175		.859
	22	24	29	18	93	7.9	.802
02:15 PM	273	250	313	246	1082	92.1	.864
02:1	85	83	75	100	343		.858
	69	66	59	76	270	78.7	.888
03:30 PM	16	17	16	24	73	21.3	.760
8	342	360	344	321	1367		.949
	272	284	288	250	1094	80	.950
02:45 PM	20	76	56	71	273	20	898.
02:4	+0 mins.	+15 mins.	+30 mins.	+45 mins.	Total Volume	% App. Total	PHF

Accurate Counts 978-664-2565

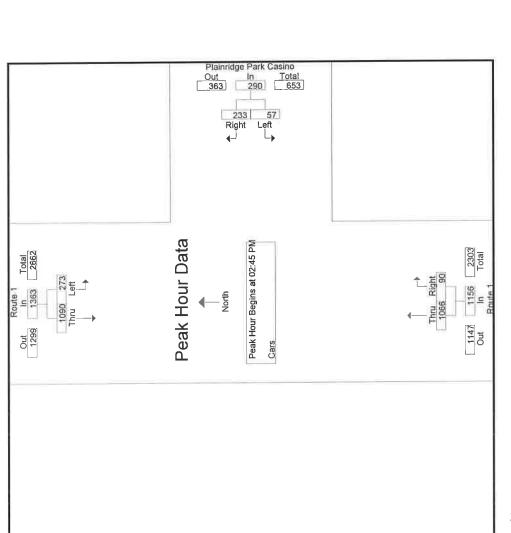
N/S Street : Route 1 E/W Street: Plainridge Park Casino City/State : Plainville, MA Weather : Clear

Route 1	E/W Street: Plainridge Park Casino	Plainville, MA	Clear
N/S Street : Route 1	V Street: Plainrid	City/State : Plainville, MA	Neather : Clear
N/N	<u></u>	Ö	Ŵ

		Route 1 From North		Plainn	Plainridge Park Casino From East	0		Route 1 From South		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 02:00 PM to 04:45 PM - Peak 1 of 1	A to 04:45 PM - Pe;	ak 1 of 1								
Peak Hour for Entire Intersection Begins at 02:45 PM	egins at 02:45 PM									
02:45 PM	70	272	342	12	54	66	312	29	341	749
03:00 PM	76	281	357	10	52	62	245	18	263	682
03:15 PM	56	287	343	19	58	77	263	23	286	706
03:30 PM	71	250	321	16	69	85	246	20	266	672
Total Volume	273	1090	1363	57	233	290	1066	06	1156	2805
% App. Total	20	80		19.7	80.3		92.2	7.8		
PHF	898	.949	.954	750	.844	.853	.854	.776	.848	.938

> N/S Street : Route 1 E/W Street: Plainridge Park Casino City/State : Plainville, MA Weather : Clear

File Name : 696400S4 Site Code : 69640004 Start Date : 6/8/2019 Page No : 7



Peak Hour Analysis From 02:00 PM to 04:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

02:	02:45 PM		8	03:30 PM		02:	02:15 PM		
+0 mins.	70	272	342	16	69	85	272	22	294
+15 mins.	76	281	357	17	66	83	249	24	273
+30 mins.	56	287	343	16	59	75	312	29	341
+45 mins.	71	250	321	24	76	100	245	18	263
Total Volume	273	1090	1363	73	270	343	1078	93	1171
% App. Total	20	80		21.3	78.7		92.1	7.9	
PHF	898	.949	.954	760	.888	.858	.864	802	.859

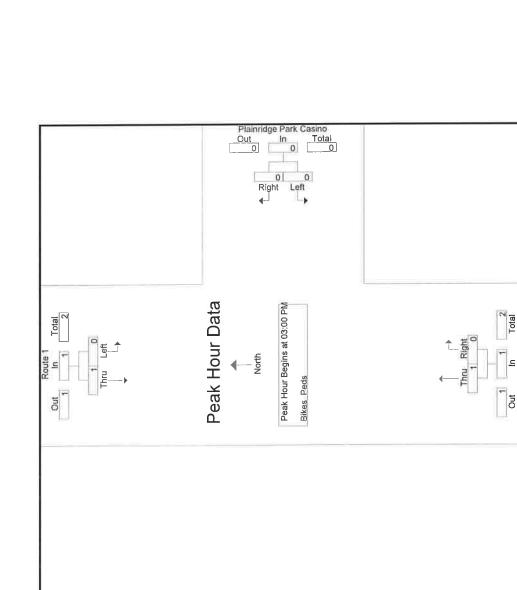
File Name:696400S4 Site Code:69640004 Start Date:6/8/2019 Page No :9		Int. Total	4	~	2	-	ى ا	4	3	~	2	10	ю	2	-	2	ω	23		
		Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Route 1 From South	Thru	-	*		-	4	÷	2	-	0	4	2	2	۲	2	7	15	100	65.2
		Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grouns Printed- Trucks	Plainridge Park Casino From East	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	o	0	0	0
Ű	5	Thru	0	0	۲	0	*	e	~	0	N	Q	1	0	0	0	-	80	100	34.8
	Route 1 From North	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N/S Street : Route 1 E/W Street: Plainridge Park Casino City/State : Plainville, MA Weather : Clear		Start Time	02:00 PM	02:15 PM	02:30 PM	02:45 PM	Total	03:00 PM	03:15 PM	03:30 PM	03:45 PM	Total	04:00 PM	04:15 PM	04:30 PM	04:45 PM	Total	Grand Total	Apprch %	Total %

N/S Street : Route 1 E/W Street: Plainridge Park Casino City/State : Plainville, MA Weather : Clear

> N/S Street : Route 1 E/W Street: Plainridge Park Casino City/State : Plainville, MA Weather : Clear

		Ľ	From North			From East			From South		
Sta	Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 02:00 PM to 04:45 PM - Peak 1 of 1	n 02:00 PM to	04:45 PM - Pea	k 1 of 1						U.		
Peak Hour for Entire Intersection Begins at 03:00 PM	rsection Begin	s at 03:00 PM									
03:	03:00 PM	0	0	0	0	0	0	0	0	0	0
03:	03:15 PM	0	0	0	0	0	0	0	0	0	0
03.	03:30 PM	0	0	0	0	0	0	+	0	~	-
03	03:45 PM	0	÷	£	0	0	0	0	0	0	-
Total	Total Volume	0	-	-	0	0	0	~	0	÷	2
% Ap	% App. Total	0	100		0	0		100	0		
	ЪНF	000	.250	.250	000	000.	000.	.250	000	.250	.500

> N/S Street : Route 1 E/W Street: Plainridge Park Casino City/State : Plainville, MA Weather : Clear



Peak Hour Analysis From 02:00 PM to 04:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	03:00 PM		02	02:00 PM		02	02:45 PM		
+0 mins.	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0
+45 mins.	0	-	+	0	0	0	1	0	F
Total Volume	0	-	Ŧ	0	0	0	-	0	-
% App. Total	0	100		0	0		100	0	
HF	000	.250	.250	000	000	000	.250	000.	.250

N/S Street : Route 1 E/W Street: Taunton Street Ramp City/State : Plainville, MA Weather : Cloudy

Start Time

04:00 PM 04:15 PM 04:30 PM 04:45 PM

05:30 PM

05:45 PM

Total

05:00 PM 05:15 PM Total

06:00 PM 06:15 PM 06:30 PM 06:45 PM

File Name : 69640005 Site Code : 69640005 Start Date : 6/6/2019 Page No : 1

9.66

99.4 0.6

% Cars Trucks % Trucks

Cars

Total %

Grand Total Apprch %

Total

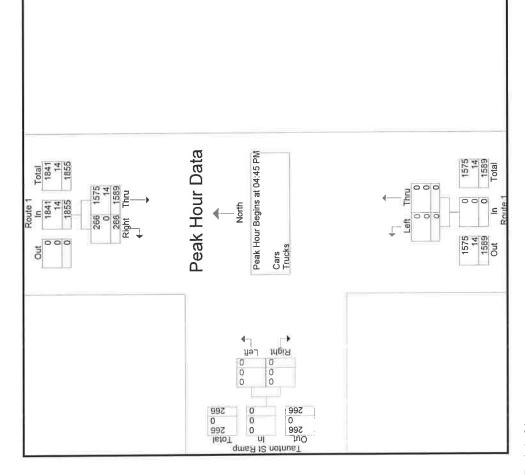
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С

N/S Street : Route 1 E/W Street: Taunton Street Ramp City/State : Plainville, MA Weather : Cloudy

		Route 1 From North		ш	Route 1 From South		Tau	Taunton St Ramp From West		
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1	to 06:45 PM - Pe	sak 1 of 1								
Peak Hour for Entire Intersection Begins at 04:45 PM	gins at 04:45 PM									
04:45 PM	372	77	449	0	0	0	0	0	0	449
05:00 PM	401	60	461	0	0	0	0	0	0	461
05:15 PM	410	64	474	0	0	0	0	0	0	474
05:30 PM	406	65	471	0	0	0	0	0	0	471
Total Volume	1589	266	1855	0	0	0	0	0	0	1855
% App. Total	85.7	14.3		0	0		0	0		
PHF	.969	.864	978.	000	000	000*	000	000*	000*	.978
Cars	1575	266	1841	0	0	0	0	0	0	1841
% Cars	99.1	100	99.2	0	0	0	0	0	0	99.2
Trucks	14	0	14	0	0	0	0	0	0	14
% Trucks	60	C	0.8	0	0	0	0	0	0	0.8

> N/S Street : Route 1 E/W Street: Taunton Street Ramp City/State : Plainville, MA Weather : Cloudy



Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

	0	0	0	0	0	0	
04:00 PM	0	0	0	0	0	0	
0	0	0	0	0	0		
	0	0	0	0	0	0	
04:00 PM	0	0	0	0	0	0	
0	449	461	474	471	1855		
	17	60	64	65	266	14.3	
04:45 PM	372	401	410	406	1589		
0	+0 mins.	+15 mins.	+30 mins.	+45 mins.	Total Volume	% App. Total	

0 0 0 0

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ΗН

		Ū	Groups Printed- Cars				
	Route 1 From North		Route 1 From South		Taunton St Ramp From West	d.	
Start Time	Thru	Right	Left	Thru	Left	Right	Int. Total
04:00 PM	321	72	0	0	0	0	393
04:15 PM	380	61	0	0	0	0	441
04:30 PM	332	72	0	0	0	0	404
04:45 PM	368	77	0	0	0	0	445
Total	1401	282	0	0	0	0	1683
MG 00-50	401	60	c	C	C	0	461
05:15 PM	404	64	0	0	0	0	468
05:30 PM	402	65	0	0	0	0	467
05:45 PM	341	73	0	0	0	0	414
Total	1548	262	0	0	o	0	1810
06:00 PM	359	61	0	0	0	0	420
06:15 PM	311	51	0	0	0	0	362
06:30 PM	281	53	0	0	0	0	334
06:45 PM	206	51	0	0	0	0	257
Total	1157	216	0	o	0	0	1373
Grand Total	4106	760	0	0	0	0	4866
Apprch %	84.4	15.6	0	0	0	0	
Total %			c	¢			

e : Plainville, MA : Cloudy							
		Gro	Groups Printed- Trucks				
	Route 1 From North		From South		Taunton St Ramp From West	Q	
Start Time	Thru	Right	Left	Thru	Left	Right	Int. Total
04:00 PM	4	0	0	0	0	0	4
04:15 PM	2	0	0	0	0	0	2
04:30 PM	4	~	0	0	0	0	5
04:45 PM	4	0	0	0	0	0	4
Total	14		0	0	0	0	15
05:00 PM	0	0	0	0	0	0	0
05:15 PM	9	0	0	0	0	0	9
05:30 PM	4	0	0	0	0	0	4
05:45 PM	0	¥7.	0	0	0	0	~
Total	10	-	0	0	0	0	11
		c	c	c	c	C	C
06:15 PM) .		0 0) 0	0 0	0	5
06:30 PM	0	0	0	0	0	0	0
06:45 PM	0	0	0	0	0	0	0
Total	-	T .	0	0	0	0	2
Grand Total	25	т	0	0	0	0	28
Apprch %	89.3	10.7	0	0	0	0	
Total %	C 00	107		•			

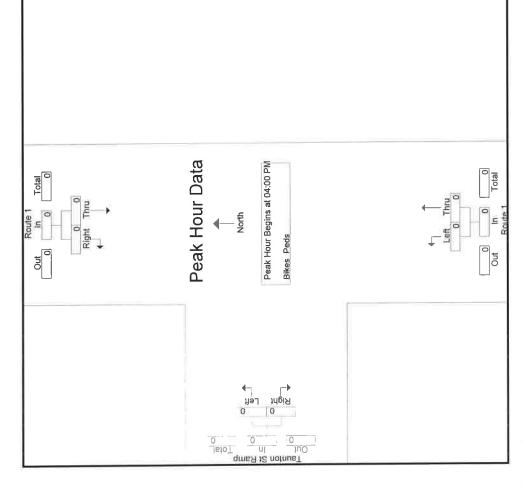
N/S Street : Route 1 E/W Street: Taunton Street Ramp City/State : Plainville, MA Weather : Cloudy

N/S Street : Route 1 E/W Street: Taunton Street Ramp City/State : Plainville, MA Weather : Cloudy

N/S Street : Route 1	E/W Street: Taunton Street Ramp	City/State : Plainville, MA	Weather : Cloudy
N/S S	EW	City/S	Weath

		Route 1 From North		Ē	Route 1 From South		Та	Taunton St Ramp From West		
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1	l to 06:45 PM - Pe	ak 1 of 1								
Peak Hour for Entire Intersection Begins at 04:00 PM	egins at 04:00 PM									
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0		
HF	000	000	000	000.	000.	000	000	000	000	000.

> N/S Street : Route 1 E/W Street : Taunton Street Ramp City/State : Plainville, MA Weather : Cloudy



Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	04:00 PM		04	04:00 PM		04:0	04:00 PM		
+0 mins.	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0	
PHF	000	000.	000.	000	000.	000	000	000	000

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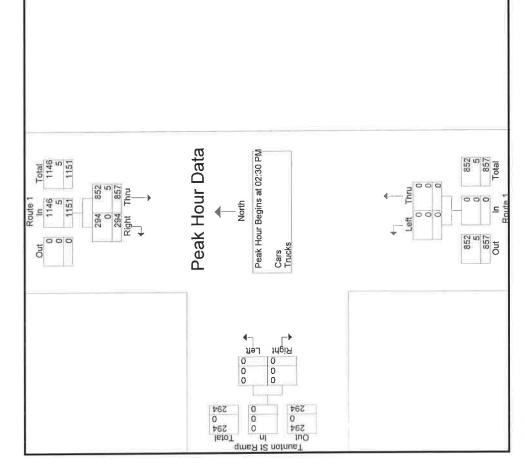
> N/S Street : Route 1 E/W Street: Taunton Street Ramp City/State : Plainville, MA Weather : Clear

	Route 1 From North		Route 1 From South		Taunton St Ramp From West	d	
	Thru	Right	Left	Thru	Left	Right	Int. Total
	194	58	0	0	0	0	252
	180	63	0	0	0	0	243
	202	77	0	0	0	0	279
	206	75	0	0	0	0	281
1	782	273	0	0	0	0	1055
	221	75	0	0	0	0	296
	228	67	0	0	0	0	295
	201	78	0	0	0	0	279
	206	64	0	0	0	0	270
	856	284	0	0	0	0	1140
	197	55	0	0	0	0	252
	175	54	0	0	0	0	229
	206	56	0	0	0	0	262
	179	54	0	0	0	0	233
	757	219	0	0	0	0	976
	2395	776	0	0	0	0	3171
	75.5	24.5	0	0	0	0	
	75.5	24.5	0	0	0	0	
	2388	775	0	0	0	0	3163
	99.7	99.9	0	0	0	0	99.7
	7	-	0	0	0	0	00
	0.3	ť	c	c	c	c	с С

N/S Street : Route 1 E/W Street: Taunton Street Ramp City/State : Plainville, MA Weather : Clear

	-	From North		L	From South		Та	Taunton St Ramp From West		
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	int. Total
Peak Hour Analysis From 02:00 PM to 04:45 PM - Peak 1 of 1	to 04:45 PM - Pe	ak 1 of 1								
Peak Hour for Entire Intersection Begins at 02:30 PM	gins at 02:30 PM									
02:30 PM	202	77	279	0	0	0	0	0	0	279
02:45 PM	206	75	281	0	0	0	0	0	0	281
03:00 PM	221	75	296	0	0	0	0	0	0	296
03:15 PM	228	67	295	0	0	0	0	0	0	295
Total Volume	857	294	1151	0	0	0	0	0	0	1151
% App. Total	74.5	25.5		0	0		0	0		
PHF	.940	.955	.972	000.	000	.000	000.	000	000	.972
Cars	852	294	1146	0	0	0	0	0	0	1146
% Cars	99.4	100	9.66	0	0	0	0	0	0	9.66
Trucks	Ω.	0	5	0	0	0	0	0	0	2 2
% Trucks	0.6	0	0.4	0	0	0	0	0	0	0.4

> N/S Street : Route 1 E/W Street Taunton Street Ramp City/State : Plainville, MA Weather : Clear



Peak Hour Analysis From 02:00 PM to 04:45 PM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

	0	0	0	0	0		000
	0	0	0	0	0	0	000
02:00 PM	0	0	0	0	0	0	000.
	0	0	0	0	0		000.
	0	0	0	0	0	0	000.
02:00 PM	0	0	0	0	0	0	000.
	279	281	296	295	1151		.972
	77	75	75	67	294	25.5	.955
02:30 PM	202	206	221	228	857	74.5	.940
C	+0 mins.	+15 mins.	+30 mins.	+45 mins.	Total Volume	% App. Total	HH

Route
Right
58
63
77
75
273
75
67
78
64
284
54
54
56
54
218
775
24.5

> N/S Street : Route 1 E/W Street: Taunton Street Ramp City/State : Plainville, MA Weather : Clear

		Gro	Groups Printed- Trucks				
	Route 1 From North		Route 1 From South		Taunton St Ramp From West	٩	
Start Time	Thru	Right	Left	Thru	Left	Right	Int. Total
02:00 PM	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0
02:30 PM	-	0	0	0	0	0	+
02:45 PM	0	0	0	0	0	0	0
Total	÷	0	0	0	0	0	3 77
03:00 PM	ю	0	0	0	0	0	З
03:15 PM	Ł	0	0	0	0	0	~
03:30 PM	0	0	0	0	0	0	0
03:45 PM	2	0	0	0	0	0	2
Total	Q	0	ο	0	0	0	Q
04:00 PM	0	7	0	0	0	0	~
04:15 PM	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0
Total	0	~ -	0	0	0	0	5
Grand Total	2	-	0	0	0	0	Ø
Apprch %	87.5	12.5	0	0	0	0	
Total %	87 F	17 5	c	C	C	c	

N/S Street : Route 1 E/W Street: Taunton Street Ramp City/State : Plainville, MA Weather : Clear

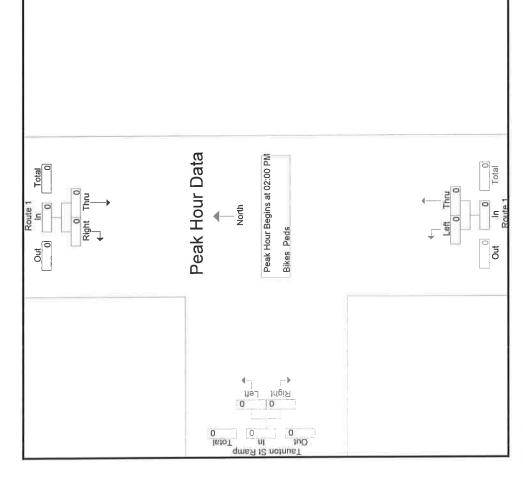
N/S Street : Route 1 E/W Street: Taunton Street Ramp City/State : Plainville, MA Weather : Clear

	Ĩ	From North		- 2 L	Route 1 From South		Taun Fr	Taunton St Ramp From West				
Start Time	Thru	Right	Peds	Left	Thru	Peds	Left	Right	Peds	Exclu. Total	Inclu. Total	Int. Total
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
03:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
03:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
03:45 PM	0	0	0	0	0	0	0	0	0	ο	0	0
Total	0	0	0	o	0	0	0	0	0	0	0	0
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0
Apprch % Total %	0	0		0	0		0	0		0	0	

eet : Route 1	E/W Street: Taunton Street Ramp	City/State : Plainville, MA	er : Clear
N/S Street : Route 1	E/W Street: Ta	City/State : PI	Weather : CI

		Route 1			Route 1		Tat	Taunton St Ramp		
		From North		ш	From South			From West		
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 02:00 PM to 04:45 PM - Peak 1 of 1	M to 04:45 PM - Pe	ak 1 of 1								
Peak Hour for Entire Intersection Begins at 02:00 PM	segins at 02:00 PM									
02:00 PM	0	0	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0
02:45 PM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0		
PHF	000	000	000	000	000	000	000	000	000	000

> N/S Street : Route 1 E/W Street: Taunton Street Ramp City/State : Plainville, MA Weather : Clear



Peak Hour Analysis From 02:00 PM to 04:45 PM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

	02:00 PM		02:	02:00 PM		02	02:00 PM		
+0 mins.	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0	
PHF	000.	000	000	000	000	000	000	000	000

N/S Street : Route 152 E/W Street : Jughandle City/State : Plainville, MA Weather : Cloudy

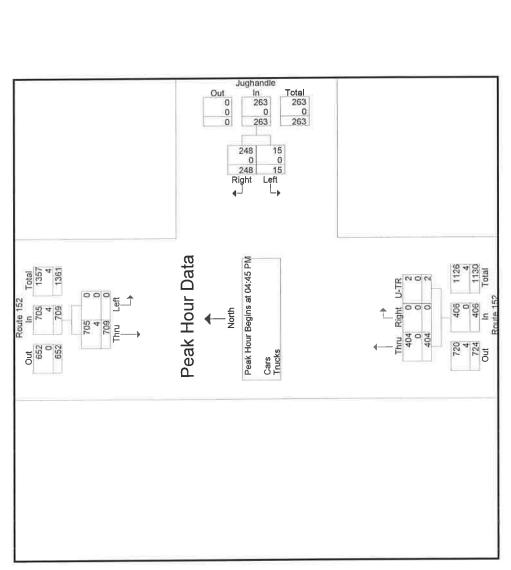
99.7 0.3 Int. Total 362 5 100 50.5 0.1 N N N U-TR <u>-</u> -Right 0 0 0 0 Route 152 From South 99.5 28.8 99.9 0.1 Thru 99.7 92.9 18.6 0.3 Right Groups Printed- Cars - Trucks From East Left Jughandle 7.1 1.4 54 100 ŝ ω Q ഗ З ĉ \sim 99.6 7 51 0.4 Thru 182 Route 152 From North Left Total % Trucks Cars % Cars Total Grand Total Apprch % % Trucks Total Start Time Total 05:00 PM 06:00 PM 06:15 PM 06:30 PM 06:45 PM 04:15 PM 04:30 PM 05:15 PM 05:30 PM 05:45 PM 04:00 PM 04:45 PM

N/S Street : Route 152 E/W Street : Jughandle City/State : Plainville, MA Weather : Cloudy

332 328 **362** 356 356 .952 1374 99.7 4 0.3 Int. Total .853 406 100 0 0 119 105 406 App. Total 88 94 00100 .250 U-TR 0.5 2 0 0 00 From South Route 152 Right 000 0 0 00 0 0 00 0 0 99.5 .863 404 100 117 105 404 0 0 Thru 88 94 76 62 62 63 263 .865 263 100 App. Total 00 73 55 55 61 61 843 94.3 94.3 248 248 248 Right Jughandle From East 0 0 Left 0 0 .943 705 99.4 4 0.6 168 172 181 181 188 709 App. Total Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1 From North Thru 168 172 Route 152 **188** 709 100 100 705 705 99.4 **4** 181 Peak Hour for Entire Intersection Begins at 04:45 PM Left 000 0 0 0 0 0 0 0 0 0 0 0 % Cars Start Time Total Volume % App. Total ЪНF Cars Trucks 05:15 PM 05:30 PM 04:45 PM 05:00 PM % Trucks

File Name : 69640006 Site Code : 69640006 Start Date : 6/6/2019 Page No : 2

> N/S Street : Route 152 E/W Street : Jughandle City/State : Plainville, MA Weather : Cloudy



Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

04	04:00 PM		07	04:00 PM		Ő	04:45 PM			
+0 mins.	0	182	182	9	64	70	88	0	0	88
+15 mins.	0	173	173	9	56	62	94	0	0	94
+30 mins.	0	186	186	9	67	73	117	0	2	119
+45 mins.	0	168	168	с	73	76	105	0	0	105
Total Volume	0	709	209	21	260	281	404	0	2	406
% App. Total	0	100		7.5	92.5		99.5	0	0.5	
PHF	000	.953	.953	.875	.890	924	.863	000.	.250	.853

File Name:69640006 Site Code:69640006 Start Date:6/6/2019 Page No :3

> N/S Street:Route 152 E/W Street:Jughandle City/State :Plainville, MA Weather :Cloudy

	Route 152 From North		Jughandle From East		Ϋ́ΥΫ́Ϋ́Ϋ́Ϋ́Ϋ́Ϋ́Ϋ́Ϋ́Ϋ́Ϋ́Ϋ́Ϋ́	Route 152 From South		
Start Time	Left	Thru	Left	Right	Thru	Right	U-TR	Int. Total
04:00 PM	0	180	9	64	66	0	0	349
04:15 PM	0	173	9	56	67	0	7	333
04:30 PM	0	186	9	66	95	0	0	353
04:45 PM	0	167	З	73	88	0	0	331
Total	0	706	21	259	379	0		1366
05:00 PM	0	171	ę	59	94	0	0	327
05:15 PM	0	180	7	55	117	0	7	361
05:30 PM	0	187	2	61	105	0	0	355
05:45 PM	0	147	7	71	86	0	0	311
Total	0	685	19	246	402	0	2	1354
06:00 PM	0	133	4	54	92	0	0	283
06:15 PM	0	149	0	52	76	0	0	277
06:30 PM	0	142	5	47	89	0	0	2
06:45 PM	0	117	£	47	55	0	3	226
Total	0	541	14	200	312	0	2	1069
Grand Total	0	1932	54	705	1093	0	ŋ	3789
Apprch %	0	100	7.1	92.9	99.5	0	0.5	
Total %	C	ц т	~ ~	18.6	28 gC	C	10	

File Name = 69640006 Site Code = 69640006 Start Date = 6/6/2019 Page No = 1

> N/S Street:Route 152 E/W Street:Jughandle City/State :Plainville, MA Weather :Cloudy

> File Name = 69640006 Site Code = 69640006 Start Date = 6/6/2019 Page No = 1

	Route 152 From North		Jughandle From East		κŗ	Route 152 From South		
Start Time	Left	Thru	Left	Right	Thru	Right	U-TR	Int. Total
04:00 PM	0	2	0	0	0	0	0	2
04:15 PM	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	-	1	0	0	0
04:45 PM	0	-	0	0	0	0	0	-
Total	0	σ	0	÷	-	0	0	5
05:00 PM	0	۲	0	0	0	0	0	* ,
05:15 PM	0	۲	0	0	0	0	0	<u>π</u> .
05:30 PM	0	1	0	0	0	0	0	20
05:45 PM	0	0	0	0	0	0	0	0
Total	0	e	0	0	0	0	0	e
06:00 PM	0	0	0	0	0	0	0	0
06:15 PM	0	0	0	~	0	0	0	~
06:30 PM	0	0	0	0	0	0	0	0
06:45 PM	0	~	0	0	0	0	0	-
Total	0		0	T	0	0	0	2
Grand Total	0	7	0	7	~	0	0	10
Apprch %	0	100	0	100	100	0	0	
Total %	c	02	c	00	01	c	c	

N/S Street : Route 152 E/W Street : Jughandle City/State : Plainville, MA Weather : Cloudy

					The second							
	αŭ	Route 152 From North		- у Ш	Jughandle From East			Route 152 From South				
Start Time	Left	Thru	Peds	Left	Right	Peds	Thru	Right	Peds	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
06:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
06:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
06:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
06:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0		0	0		0	0				
Total %										0	0	

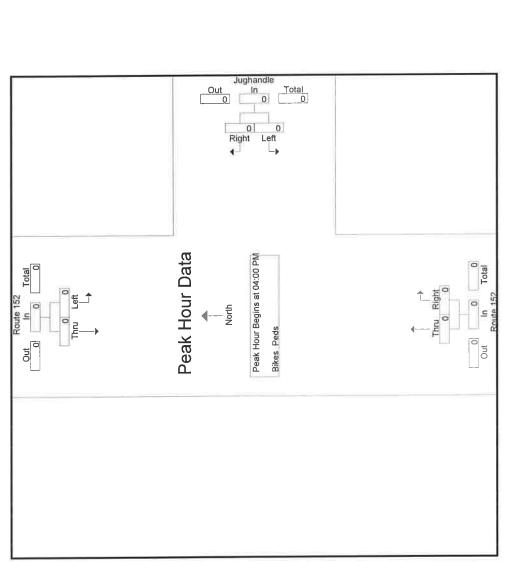
File Name:69640006 Site Code:69640006 Start Date:6/6/2019 Page No :1

> N/S Street : Route 152 E/W Street : Jughandle City/State : Plainville, MA Weather : Cloudy

File Name : 69640006 Site Code : 69640006 Start Date : 6/6/2019 Page No : 2

		From North			Jughandle From East			Route 152 From South		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1	/l to 06:45 PM - Pe	ak 1 of 1								
Peak Hour for Entire Intersection Begins at 04:00 PM	egins at 04:00 PM									
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	
Total Volume	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0		
HF	000	000	000	000	000	000	000	000	000	000

N/S Street : Route 152 E/W Street : Jughandle City/State : Plainville, MA Weather : Cloudy



Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

J	04:00 PM		04:(04:00 PM		04:0	04:00 PM		
+0 mins.	0	0	0	0	0	0	0	0	
+15 mins.	0	0	0	0	0	0	0	0	
+30 mins.	0	0	0	0	0	0	0	0	
+45 mins.	0	0	0	0	0	0	0	0	
Total Volume	0	0	0	0	0	0	0	0	
% App. Total	0	0		0	0		0	0	
PHF	000	000	000	000	000	000	000	000	000

File Name:69640006 Site Code:69640006 Start Date:6/6/2019 Page No :3

N/S Street : Route 152 E/W Street : Jughandle City/State : Plainville, MA Weather : Clear

File Name:696400S6 Site Code:69640006 Start Date:6/8/2019 Page No :1

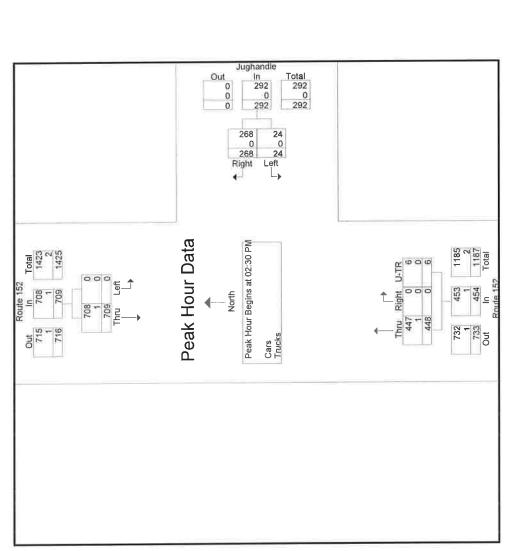
	Int. Total	350	353	371	353	1427	377	354	355	331	1417	327	282	304	307	1220	4064			4057	93.8	L
	U-TR	0	со С	0	1	4	2	n	~	-	2	0	0	-	ю	4	15	1.2	0.4	15	100	c
From South	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	c
	Thru	114	97	117	109	437	120	102	114	95	431	86	72	98	101	357	1225	98.8	30.1	1223	99.8	c
	Right	49	61	68	67	245	69	64	72	59	264	50	47	56	42	195	704	91.1	17.3	703	99.9	-
Jughandle From East	Left	œ	5	80	7	28	œ	-	00	ę	20	9	7	Ω	ç	21	69	8.9	1.7	69	100	c
	Thru	179	187	178	169	713	178	184	160	173	695	185	156	144	158	643	2051	100	50.5	2047	99.8	r
From North	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	c
	Start Time	02:00 PM	02:15 PM	02:30 PM	02:45 PM	Total	03:00 PM	03:15 PM	03:30 PM	03:45 PM	Total	04:00 PM	04:15 PM	04:30 PM	04:45 PM	Total	Grand Total	Apprch %	Total %	Cars	% Cars	Trucke

N/S Street : Route 152 E/W Street : Jughandle City/State : Plainville, MA Weather : Clear

File Name = 696400S6 Site Code = 69640006 Start Date = 6/8/2019 Page No = 2

		Route 152			Jughandle			Route 152	152		
		From North			From East			From South	south		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	U-TR	App. Total	Int. Total
Peak Hour Analysis From 02:00 PM to 04:45 PM - Peak 1 of	³ M to 04:45 PM	- Peak 1 of 1									
Peak Hour for Entire Intersection Begins at 02:30 PM	Begins at 02:30	M C									
02:30 PM	0	178	178	80	68	76	117	0	0	117	37
02:45 PM	0	169	169	7	67	74	109	0	-	110	353
03:00 PM	0	178	178	8	69	17	120	0	5	122	37
03:15 PM	0	184	184	-	64	65	102	0	e	105	35
Total Volume	0	209	602	24	268	292	448	0	g	454	145
% App. Total	0	100		8.2	91.8		98.7	0	1.3		
PHF	000	.963	.963	,750	.971	.948	.933	000	.500	.930	96
Cars	0	708	708	24	268	292	447	0	Q	453	145
% Cars	0	99.9	99.9	100	100	100	99.8	0	100	99.8	66
Trucks	0	~	~	0	0	0	1	0	0	~-	2
% Trucks	0	0.1	0.1	0	0	0	0.2	0	0	0.2	0

N/S Street : Route 152 E/W Street : Jughandle City/State : Plainville, MA Weather : Clear



Peak Hour Analysis From 02:00 PM to 04:45 PM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

	0		2	ę	9	1.3	.500
	0	0	0	0	0	0	000
02:30 PM	117	109	120	102	448	98.7	.933
02:	74	77	65	80	296		.925
	67	69	64	72	272	91.9	944
02:45 PM	7	00	~	ø	24	8.1	.750
02	179	187	178	169	713		.953
	179	187	178	169	713	100	.953
02:00 PM	0	0	0	0	0	0	000
02:(+0 mins.	+15 mins.	+30 mins.	+45 mins.	Total Volume	% App. Total	PHF

i

117 110 **122** 105 454

.930

File Name:696400S6 Site Code:69640006 Start Date:6/8/2019 Page No :3

N/S Street : Route 152 E/W Street : Jughandle City/State : Plainville, MA Weather : Clear

File Name : 696400S6 Site Code : 69640006 Start Date : 6/8/2019 Page No : 1

	U-TR Int. Total	349	353	0 370	1 352	4 1424	377	3 354	1 355	1 330	7 1416	0 325	0 282	1 303	3 307	4 1217	15 4057
Route 152 From South	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fror	Thru	113	97	117	108	435	120	102	114	95	431	86	72	98	101	357	1223
	Right	49	61	68	67	245	69	64	72	59	264	49	47	56	42	194	703
Jughandle From East	Left	8	5	Ø	7	28	ω	-	80	ε	20	Q	7	5	e	21	69
	Thru	179	187	177	169	712	178	184	160	172	694	184	156	143	158	641	2047
From North	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Start Time	02:00 PM	02:15 PM	02:30 PM	02:45 PM	Total	03:00 PM	03:15 PM	03:30 PM	03:45 PM	Total	04:00 PM	04:15 PM	04:30 PM	04:45 PM	Total	Grand Total

> N/S Street : Route 152 E/W Street : Jughandle City/State : Plainville, MA Weather : Clear

File Name : 696400S6 Site Code : 69640006 Start Date : 6/8/2019 Page No : 1

	Int. Total	+	0	-	4	e	0	0	0	-	-	2	0		0	ю	7	
	U-TR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Route 152 From South	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ro Fro	Thru	4	0	0	4	2	0	0	0	0	0	0	0	0	0	0	N	100
	Right	0	0	0	0	0	0	0	0	0	0	۲	0	0	0		-	100
Jughandle From East	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Thru	0	0	~	0	-	0	0	0	-	٣	~~	0	~	0	2	4	100
Route 152 From North	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Start Time	02:00 PM	02:15 PM	02:30 PM	02:45 PM	Total	03:00 PM	03:15 PM	03:30 PM	03:45 PM	Total	04:00 PM	04:15 PM	04:30 PM	04:45 PM	Total	Grand Total	Apprch %

> N/S Street : Route 152 E/W Street : Jughandle City/State : Plainville, MA Weather : Clear

File Name : 696400S6 Site Code : 69640006 Start Date : 6/8/2019 Page No : 1

_	œœ	Route 152 From North		Ϋ́	Jughandle From East		с <u>г</u>	Route 152 From South				
Start Time	Left	Thru	Peds	Left	Right	Peds	Thru	Right	Peds	Exclu. Total	Inclu. Total	Int. Total
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
03:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
03:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
03:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	~	0	0	0	0	0	0	0	0	-	-
Total	0	æ	0	0	0	0	0	0	0	0	<u>.</u>	
Grand Total	0	-	0	0	0	0	0	0	0	0	÷	
Apprch %	0	100		0	0		0	0				
Total %	0	100		c	С		c	C		C	100	

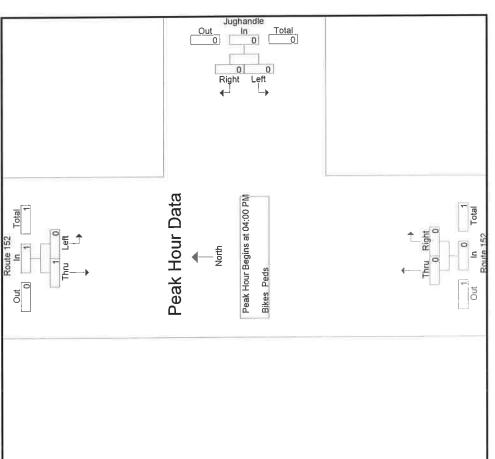
N/S Street : Route 152 E/W Street : Jughandle City/State : Plainville, MA Weather : Clear

File Name:696400S6 Site Code:69640006 Start Date:6/8/2019 Page No :2

		From North			From East			From South		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 02:00 PM to 04:45 PM - Peak 1 of 1 Peak Hour for Entire Intersection Beains at 04:00 PM	PM to 04:45 PM - F Decins at 04:00 PM	beak 1 of 1 M	-							
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	
04:45 PM	0	-	-	0	0	0	0	0	0	、
Total Volume	0	~	-	0	0	0	0	0	0	
% App. Total	0	100		0	0		0	0		
PHF	000	.250	250	000	000	000	000	000	000	.250

> N/S Street : Route 152 E/W Street : Jughandle City/State : Plainville, MA Weather : Clear

Page N Page N



Peak Hour Analysis From 02:00 PM to 04:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	0	0	0	0	0		000.
	0	0	0	0	0	0	000.
02:00 PM	0	0	0	0	0	0	000
02:0	0	0	0	0	0		000*
	0	0	0	0	0	0	000.
02:00 PM	0	0	0	0	0	0	000.
02:0	0	0	0	, -	5		.250
	0	0	0	£	-	100	.250
M	0	0	0	0	0	0	000*
04:00 PM	+0 mins.	+15 mins.	+30 mins.	+45 mins.	Total Volume	% App. Total	PHF

File Name:696400S6 Site Code:69640006 Start Date:6/8/2019 Page No :3 File Name : 69640007 Site Code : 69640007 Start Date : 6/6/2019 Page No : 1

		Route 1 From North	1 ith		UC, LL	Route 152 From East			Route 1 From South	ţ		αī	Route 152 From West		
Start Time	Left	Thru	Right	U-TR	Left	Thru	Right	Left	Thru	Right	U-TR	Left	Thru	Right	Int. Total
04:00 PM	81	213	2		17	74	105	24	108	13	0	54	84	57	833
04:15 PM	119	285	0	Æ	27	63	86	25	106	Q	0	49	93	41	901
04:30 PM	88	247	0	T	14	74	109	33	121	00	0	49	80	54	878
04:45 PM	112	262	0	лт.	18	59	88	29	135	4	0	57	60	56	881
Total	400	1007	2	4	76	270	388	111	470	31	0	209	317	208	3493
05:00 PM	102	264	~~	N	20	69	66	23	122	15	0	49	62	62	890
05:15 PM	113	326	0	n	20	75	74	45	113	4	~	54	85	53	996
05:30 PM	88	272	-	~	18	78	81	29	102	12	0	57	61	69	869
05:45 PM	94	296	0	0	24	51	72	35	97	12	0	32	50	55	818
Total	397	1158	2	Q	82	273	326	132	434	43	~	192	258	239	3543
06:00 PM	95	266	0	٣	22	64	76	29	82	6	0	36	54	59	793
06:15 PM	94	227	0	0	15	38	37	29	96	5	2	38	54	44	679
06:30 PM	82	190		٣	10	74	66	33	85	9	0	53	61	46	708
06:45 PM	89	140	2	÷	10	30	46	22	89	9	0	25	60	30	550
Total	360	823	с	e	57	206	225	113	352	26	7	152	229	179	2730
Grand Total	1157	2988	7	13	215	749	939	356	1256	100	ę	553	804	626	9766
Apprch %	27.8	71.7	0.2	0.3	11.3	39.4	49.3	20.8	73.2	5.8	0.2	27.9	40.5	31.6	
Total %	11.8	30.6	0.1	0.1	2.2	7.7	9.6	3.6	12.9	-	0	5.7	8.2	6.4	
Cars	1150	2969	7	13	215	748	934	356	1248	100	e	550	802	626	9721
% Cars	99.4	99.4	100	100	100	99.9	99.5	100	99.4	100	100	99.5	99.8	100	99.5
Trucks	7	19	0	0	0	÷	£	0	œ	0	0	e	0	0	45
% Trucks	0.6	0.6	C	C	C	0	0.5	C	0.6	C	C	0.5	0.0	c	50

Accurate Counts 978-664-2565

> N/S Street : Route 1 E/W Street: Route 152 City/State : Plainville, MA Weather : Cloudy

N/S Street : Route 1 E/W Street: Route 152 City/State : Plainville, MA Weather : Cloudy

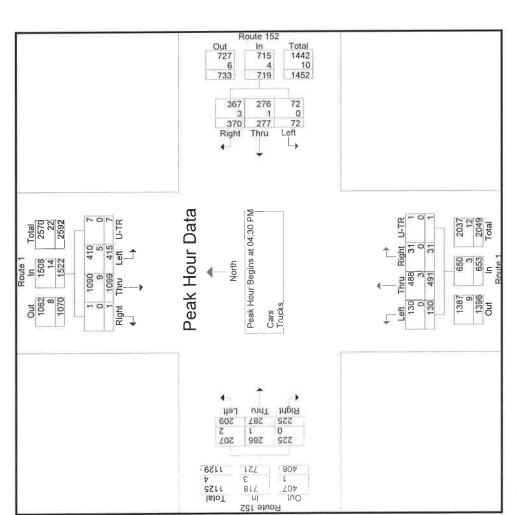
File Name = 69640007 Site Code = 69640007 Start Date = 6/6/2019 Page No = 2

			Koute 1				-	Koute 152	72				KOUTE 1				ZCI alloy	701 2		
		ц.	From North	4			_	From East	ıst			LL :	From South	-			From West	West		
Start Time	Left	Thru	Right	U-TR	Right U-TR App. Total	al Left		Thru F	Right Ap	App. Total	Left	Thru	Right	U-TR /	U-TR App. Total	Left	Thru	Right A	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1	⁻ rom 04:(DO PM to (D6:45 PM	- Peak 1	of 1															
Peak Hour for Entire Intersection Begins at 04:30 PM	Intersecti	ion Begin.	s at 04:30	MM																
04:30 PM	88	247	0	~	336		14	74	109	197	33	121	Ø	0	162	49	80	54	183	878
04:45 PM	112	262	0	-	375		18	59	88	165	29	135	4	0	168	57	60	56	173	881
05:00 PM	102	264	÷	2	369		20	69	66	188	23	122	15	0	160	49	62	62	173	89(
05:15 PM	113	326	0	e	442		20	75	74	169	45	113	4	-	163	54	85	53	192	996
Total Volume	415	1099	~	7	1522		72 2	277	370	719	130	491	31	-	653	209	287	225	721	361
% App. Total	27.3	72.2	0.1	0.5		•-	10 3	38.5	51.5		19.9	75.2	4.7	0.2		29	39.8	31.2		
PHF	.918	.843	.250	.583	.861		3. 000.	.923	.849	.912	.722	606.	.517	.250	.972	.917	.844	.907	.939	.936
Cars	410	1090	-	7	1508		72 2	276	367	715	130	488	31	-	650	207	286	225	718	3591
% Cars	98.8	99.2	100	100	99.1		100 9	99.6	99.2	99.4	100	99.4	100	100	99.5	99.0	99.7	100	9.66	66
Trucks	5	6	0	0	14	4	0	1	ę	4	0	n	0	0	ŝ	2	-	0	e	24
% Trucks	1.2	0.8	0	0	0.9	6	0	0.4	0.8	0.6	0	0.6	0	0	0.5	1.0	0.3	0	0.4	Ö

N/S Street : Route 1 E/W Street: Route 152 City/State : Plainville, MA Weather : Cloudy

Accurate Counts 978-664-2565

File Name : 69640007 Site Code : 69640007 Start Date : 6/6/2019 Page No : 3



Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

_		_	_		_		
	195	183	183	173	734		.941
	57	41	54	56	208	28.3	.912
	84	93	80	60	317	43.2	.852
04:00 PM	54	49	49	57	209	28.5	,917
0	162	168	160	163	653		.972
	0	0	0	£	-	0.2	.250
	80	4	15	4	31	4.7	.517
	121	135	122	113	491	75.2	606.
04:30 PM	33	29	23	45	130	19.9	.722
	196	176	197	165	734		.931
	105	86	109	88	388	52.9	.890
	74	63	74	59	270	36.8	.912
04:00 PM	17	27	14	18	76	10.4	704
	369	442	362	390	1563		.884
	2	ო	-	0	9	0.4	.500
	-	0	1	0	2	0.1	.500
	264	326	272	296	1158	74.1	.888
05:00 PM	102	113	88	94	397	25.4	.878
0	+0 mins.	+15 mins.	+30 mins.	+45 mins.	Total Volume	% App. Total	PHF

File Name : 69640007 Site Code : 69640007 Start Date : 6/6/2019 Page No : 1

Right Left Thru Right U-TR Left Thru Right Int. 104 24 107 13 0 53 83 57 mt. 85 25 105 6 0 49 93 41 mt. 88 29 135 4 0 57 60 56 3 97 23 121 8 31 0 57 60 56 3 97 23 121 15 0 49 61 62 53 3 74 45 111 46 31 0 57 60 56 3 71 29 101 12 0 32 50 53 3 7 29 101 12 20 55 53 3 7 29 103 37 12 12 12 4 4 </th <th>From North</th> <th></th> <th>th th</th> <th></th> <th>עֿע</th> <th>Route 152 From East</th> <th></th> <th></th> <th>From South</th> <th>- ti</th> <th></th> <th>КĿ</th> <th>Route 152 From West</th> <th></th> <th></th>	From North		th th		עֿע	Route 152 From East			From South	- ti		КĿ	Route 152 From West		
17 74 104 24 107 13 0 53 83 57 83 57 14 73 108 33 121 8 0 49 93 41 14 73 108 33 121 8 0 49 93 41 76 269 385 111 468 31 0 57 60 56 20 53 121 16 11 468 31 0 57 60 56 20 53 121 12 12 12 0 57 50 53 21 78 81 122 12 12 12 12 12 12 12 12 21 21 22 31 122 121 12 121 122 121 121 <th>Thru Right</th> <th>Right</th> <th></th> <th>U-TR</th> <th></th> <th>Thru</th> <th>Right</th> <th>Left</th> <th>Thru</th> <th></th> <th>U-TR</th> <th></th> <th>Thru</th> <th>Right</th> <th>Int. Total</th>	Thru Right	Right		U-TR		Thru	Right	Left	Thru		U-TR		Thru	Right	Int. Total
27 63 85 25 105 6 0 49 93 41 14 73 108 33 121 8 0 49 93 41 16 59 88 29 135 4 0 57 60 56 76 269 385 111 468 31 0 49 80 54 20 69 97 23 121 15 0 49 61 62 20 75 74 45 111 4 1 52 85 53 21 78 81 23 96 12 0 37 205 55 24 43 132 429 43 1 190 257 239 3 21 23 35 96 12 0 36 54 44 21 208 54 66		2		-	17	74	104	24	107	13	0	53	83	57	825
	283 0	0		~	27	63	85	25	105	9	0	49	93	41	897
18 59 88 29 135 4 0 57 60 56 33 7 6 263 385 111 468 31 0 208 316 208 33 20 69 97 23 121 15 0 49 61 62 53 21 75 74 45 111 44 1 52 85 53 220 51 72 35 96 12 0 32 56 53 53 24 51 72 35 429 43 1 100 57 61 63 33 222 64 76 36 53 54 44 53 53 54 46 53 53 54 53 53 54 46 53 53 54 53 53 54 46 54 53 53 54<	244 0	0		-	14	73	108	33	121	80	0	49	80	54	870
76 269 365 111 468 311 0 208 316 208 3 20 69 97 23 121 15 0 49 61 62 53 20 75 74 45 111 4 1 57 61 62 53 24 51 72 35 96 12 0 57 61 69 3 24 51 72 324 132 429 43 10 57 50 53 33 82 273 324 132 429 42 54 44 54 44 10 74 66 33 84 66 33 54 44 56 54 44 10 74 66 72 28 61 46 56	261 0	0		-	18	59	88	29	135	4	0	57	60	56	879
20 69 97 23 121 15 0 49 61 62 20 75 74 45 111 4 1 52 85 53 18 78 81 29 101 12 0 57 61 69 24 51 72 35 96 12 0 32 50 55 24 51 72 35 96 12 0 32 50 55 53 33 22 64 76 29 96 5 2 38 54 44 10 74 66 33 84 6 0 55 60 30 3 10 74 66 7 26 38 54 44 10 30 46 6 0 25 14 46 10 30 46 6 2 <td>998 2</td> <td>2</td> <td></td> <td>4</td> <td>76</td> <td>269</td> <td>385</td> <td>111</td> <td>468</td> <td>31</td> <td>0</td> <td>208</td> <td>316</td> <td>208</td> <td>3471</td>	998 2	2		4	76	269	385	111	468	31	0	208	316	208	3471
	264 1			2	20	69	67	23	121	15	0	49	61	62	885
18 78 81 29 101 12 0 57 61 69 24 51 72 35 96 12 0 32 50 55 82 273 324 132 429 43 1 190 257 239 3 15 38 37 29 82 9 0 36 54 44 10 74 66 33 84 6 0 55 60 30 10 30 46 22 89 6 0 25 60 30 10 30 26 133 51 26 60 30 10 25 60 30 11 30 23 135 212 239 61 46 22 112 229 179 216	321 0	0		ო	20	75	74	45	111	4	~	52	85	53	957
24 51 72 35 96 12 0 32 50 55 82 273 324 132 429 43 1 190 257 239 3 15 38 37 29 96 5 9 0 36 54 59 33 3 10 74 66 33 84 6 0 53 61 46 46 10 74 66 33 84 6 0 53 61 46 46 10 30 46 22 89 6 0 30 36 30 36 30 30 30 30 30 30 36 30 30 30 36 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30	269 1			~	18	78	81	29	101	12	0	57	61	69	865
82 273 324 132 429 43 1 190 257 239 3 15 64 76 29 82 9 0 36 54 55 5	295 0	0		0	24	51	72	35	96	12	0	32	50	55	816
22 64 76 29 82 9 0 36 54 59 54 56 53 54 56 53 54 56 53 54 56 53 61 36 54 56 30 <td>1149 2</td> <td>7</td> <td></td> <td>9</td> <td>82</td> <td>273</td> <td>324</td> <td>132</td> <td>429</td> <td>43</td> <td>÷</td> <td>190</td> <td>257</td> <td>239</td> <td>3523</td>	1149 2	7		9	82	273	324	132	429	43	÷	190	257	239	3523
15 38 37 29 96 5 28 54 44 10 74 66 33 84 6 0 53 61 46 10 74 66 33 84 6 0 53 61 46 10 30 46 22 89 6 0 25 60 30 57 206 225 113 351 26 2 175 229 179 2 215 748 934 356 1248 100 3 550 802 626 9 211.3 39.4 49.2 20.9 73.1 5.9 0.2 27.8 40.5 31.6 9 21.1.3 39.4 49.2 73.1 5.9 0.2 27.8 40.5 31.6 9 20.2 7.7 9.6 3.7 12.8 1 0 5.7 8.3 6.4	266 0	0		~	22	64	76	29	82	თ	0	36	54	59	793
10 74 66 33 84 6 0 53 61 46 10 30 46 22 89 6 0 25 60 30 57 206 225 113 351 26 2 60 30 215 748 934 356 1248 100 3 550 802 626 9 11.3 39.4 49.2 20.9 73.1 5.9 0.2 27.8 40.5 31.6 9 2.2 7.7 9.6 3.7 12.8 1 0 5.7 8.3 6.4	226 0	0		0	15	38	37	29	96	5	7	38	54	44	678
10 30 46 22 89 6 0 25 60 30 57 206 225 113 351 26 2 152 229 179 2 215 748 934 356 1248 100 3 550 802 626 9 215 748 9.6 73.1 5.9 0.2 27.8 40.5 31.6 2.2 7.7 9.6 3.7 12.8 1 0 5.7 8.3 6.4	190 1	-		~	10	74	66	33	84	9	0	53	61	46	707
57 206 225 113 351 26 2 152 229 179 215 748 934 356 1248 100 3 550 802 626 11.3 39.4 49.2 20.9 73.1 5.9 0.2 27.8 40.5 31.6 2.2 7.7 9.6 3.7 12.8 1 0 5.7 8.3 6.4	140 2	2		-	10	30	46	22	89	9	0	25	60	30	549
215 748 934 356 1248 100 3 550 802 626 11.3 39.4 49.2 20.9 73.1 5.9 0.2 27.8 40.5 31.6 2.2 7.7 9.6 3.7 12.8 1 0 5.7 8.3 6.4	822 3	n		ю	57	206	225	113	351	26	2	152	229	179	2727
11.3 39.4 49.2 20.9 73.1 5.9 0.2 27.8 40.5 2.2 7.7 9.6 3.7 12.8 1 0 5.7 8.3	2969 7	7		13	215	748	934	356	1248	100	с	550	802	626	9721
2.2 7.7 9.6 3.7 12.8 1 0 5.7 8.3	71.7 0.2	0.2		0.3	11.3	39.4	49.2	20.9	73.1	5.9	0.2	27.8	40.5	31.6	
	30.5 0.1	0.1		0.1	2.2	7.7	9.6	3.7	12.8	-	0	5.7	8.3	6.4	

Accurate Counts 978-664-2565

N/S Street : Route 1 E/W Street: Route 152 City/State : Plainville, MA Weather : Cloudy

File Name : 69640007 Site Code : 69640007 Start Date : 6/6/2019 Page No : 1

		Doute	T			0140 4ED	(E)		Douto	T		-	00110 150		
		From North	, th		ĽĒ	From East			From South	uth			From West		
Start Time	Left	Thru	Right	U-TR	Left	Thru	Right	Left	Thru	Right	U-TR	Left	Thru	Right	Int. Total
04:00 PM	~	ო	0	0	0	0	-	0	-	0	0		-	0	œ
04:15 PM	0	2	0	0	0	0	~	0	-	0	0	0	0	0	4
04:30 PM	с	ю	0	0	0	-	~	0	0	0	0	0	0	0	Ø
04:45 PM	۲		0	0	0	0	0	0	0	0	0	0	0	0	2
Total	5	0	0	0	0	~	ę	0	2	0	0	-	~	0	22
05:00 PM	~	0	0	0	0	0	2	0	٣	0	0	0		0	5
05:15 PM	0	ъ	0	0	0	0	0	0	2	0	0	2	0	0	6
05:30 PM	0	т	0	0	0	0	0	0	+	0	0	0	0	0	4
05:45 PM	0	~	0	0	0	0	0	0	-	0	0	0	0	0	7
Total	Ŧ	σ	0	0	0	0	2	0	2J	0	0	2	~	0	20
06:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:15 PM	0	~	0	0	0	0	0	0	0	0	0	0	0	0	·
06:30 PM	0	0	0	0	0	0	0	0	~	0	0	0	0	0	-
06:45 PM	-	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	-		0	0	0	0	0	0	¥	0	0	0	0	0	ę
Grand Total:	7	19	0	0	0	~	S	0	Ø	0	0	т	2	0	45
Apprch %	26.9	73.1	0	0	0	16.7	83.3	0	100	0	0	60	40	0	
Total %	15.6	42.2	0	0	0	2.2	11.1	0	17.8	0	0	67	44	С	

Accurate Counts 978-664-2565

N/S Street : Route 1 E/W Street: Route 152 City/State : Plainville, MA Weather : Cloudy

> N/S Street : Route 1 E/W Street: Route 152 City/State : Plainville, MA Weather : Cloudy

File Name = 69640007 Site Code = 69640007 Start Date = 6/6/2019 Page No = 1

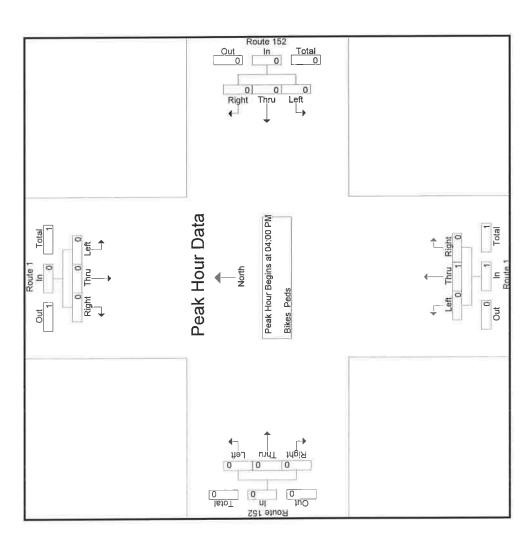
		From North	orth			From East	152 last			From South	e 1 south			Route 152 From West	152 Vest				
Start Time	Left	Thru	Right	U-TR	Left	Thru	Right	Peds	Left	Thru	Right	U-TR	Left	Thru	Right	Peds	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	~	0	0	0	0	0	1 2	1	~	2
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	Υ	0	0	0	0	0	-	~	¥.	0
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	
06:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
06:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
06.45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	
Grand Total	0	0	0	0	0	0	0	0	0	Ł	0	0	0	0	0	ŝ	с С	÷	
Apprch %	0	0	0		0	0	0		0	100	0		0	0	0				

N/S Street : Route 1 E/W Street: Route 152 City/State : Plainville, MA Weather : Cloudy

File Name:69640007 Site Code:69640007 Start Date:6/6/2019 Page No :2

		Route 1	te 1			Koute 152	e 152			ROL	Koute 1			Koute 152	5 152		
		From North	North			From	From East			From	From South			From West	West		
Start Time	Left	Thru	Right	Right App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1	om 04:00 F	M to 06:4.	5 PM - Pe	ak 1 of 1													
Peak Hour for Entire Intersection Begins at 04:00 PM	tersection	Begins at (04:00 PM														
04:00 PM	0	0	0	0	0	0	0	0	0	-	0	F	0	0	0	0	
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Volume	0	0	0	0	0	0	0	0	0	-	0	-	0	0	0	0	
% App. Total	0	0	0		0	0	0		0	100	0		0	0	0		
PHF	000	000	000	000	000	000	000	000	000	.250	000	.250	000	000	000	000	.250

> N/S Street : Route 1 E/W Street: Route 152 City/State : Plainville, MA Weather : Cloudy



Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	04:00 PM			0	04.00 PM			0	04:00 PM				04:00 PM			
+0 mins.	0	0	0	0	0	0	0	0	0	1	0	-	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	-	0	-	0	0	0	0
% App. Total	0	0	0		0	0	0		0	100	0		0	0	0	
PHF	000	000	000	000	000	000	.000	000.	000.	.250	000.	.250	000.	000	.000	000

File Name : 69640007 Site Code : 69640007 Start Date : 6/6/2019 Page No : 3

N/S Street : Route 1 E/W Street: Route 152 City/State : Plainville, MA Weather : Clear

File Name : 696400S7 Site Code : 69640007 Start Date : 6/8/2019 Page No : 1

		Route 1 From North	tt tt		сĽ	Route 152 From East	le 152 n East		Route 1 From South	uth 1		КЦ	Route 152 From West		
Start Time	Left	Thru	Right	U-TR	Left	Thru	Right	Left	Thru	Right	U-TR	Left	Thru	Right	Int. Total
02:00 PM	60	125	0	•	14	84	63	32	110	18	0	51	62	42	679
02:15 PM	20	121	0	Ð	21	67	51	27	133	27	0	83	83	42	730
02:30 PM	20	122	۲	5	26	83	83	40	131	80	0	68	81	30	745
02:45 PM	78	128	0	4	16	62	111	26	148	11	0	62	66	32	761
Total	278	496	~	12	27	313	308	125	522	64	0	264	309	146	2915
03:00 PM	68	145	0	1	11	82	75	36	138	24	-	57	94	42	774
03:15 PM	89	138	-	2	13	74	88	25	122	11	0	66	76	41	746
03:30 PM	65	119	0	ю	17	94	87	36	127	2	÷	53	76	39	719
03:45 PM	85	126	2	ę	16	58	82	33	104	12	0	63	62	45	691
Total	307	528	ę	ດ	57	308	332	130	491	49	2	239	308	167	2930
04:00 PM	59	125	0	N	11	51	62	33	98	O	0	71	73	47	641
04:15 PM	75	115	0	2	27	44	67	28	86	13	0	60	69	40	626
04:30 PM	60	126	0	2	00	62	63	41	114	4	~	49	64	36	630
04:45 PM	70	108	-	5	00	64	73	44	110	6	0	56	61	41	650
Total	264	474	~	7	54	221	265	146	408	35	<u></u>	236	267	164	2547
Grand Total	849	1498	Ω.	32	188	842	905	401	1421	148	S	739	884	477	8392
Apprch %	35.6	62.8	0.2	1.3	9.7	43.5	46.8	20.3	72	7.5	0.2	35.2	42.1	22.7	
Total %	10.1	17.9	0.1	0.4	2.2	10	10.8	4.8	16.9	1.8	0	8.8	10.5	5.7	
Cars	848	1492	5	31	188	841	902	400	1412	148	e	735	884	477	8366
% Cars	99.9	99.6	100	96.9	100	99.9	99.7	99.8	99.4	100	100	99.5	100	100	99.7
Trucks	**	9	0	-	0	-	e	-	თ	0	0	4	0	0	
0/ T			,												

N/S Street : Route 1 E/W Street: Route 152 City/State : Plainville, MA Weather : Clear

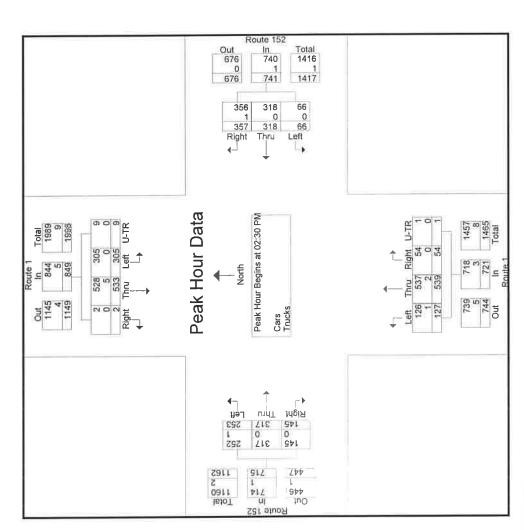
File Name : 696400S7 Site Code : 69640007 Start Date : 6/8/2019 Page No : 2

			Koute 1				Rout	Koute 152				Route 1				Route	Route 152		
		-	From North	4			From	n East			ш	From South	-			From	From West		
Start Time	Left	Thru	Right	U-TR	Left Thru Right U-TR App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	U-TR /	App. Total	Left	Thru	Right /	App. Total	Int. Total
Peak Hour Analysis From 02:00 PM to 04:45 PM - Peak 1 of 1	-rom 02:0	0 PM to (04:45 PM	- Peak 1	of 1														
Peak Hour for Entire Intersection Begins at 02:30 PM	Intersecti	on Begin:	s at 02:30	PM															
02:30 PM	70	122	1	2	195	26	83	83	192	40	131	ø	0	179	68	81	30	179	74
02:45 PM	78	128	0	4	210	16	29	111	206	26	148	11	0	185	62	66	32	160	761
03:00 PM	68	145	0	~	214	11	82	75	168	36	138	24	Ļ	199	57	94	42	193	774
03:15 PM	89	138	-	2	230	13	74	88	175	25	122	11	0	158	66	76	41	183	74
Total Volume	305	533	2	6	849	66	318	357	741	127	539	54	-	721	253	317	145	715	302
% App. Total	35.9	62.8	0.2	. .		8.9	42.9	48.2		17.6	74.8	7.5	0.1		35.4	44.3	20.3		
PHF	.857	.919	.500	.563	.923	.635	.958	.804	899.	.794	.910	.563	.250	906.	.930	.843	.863	.926	.97
Cars	305	528	2	6	844	99	318	356	740	126	537	54		718	252	317	145	714	301
% Cars	100	99.1	100	100	99.4	100	100	99.7	99.9	99.2	9.66	100	100	93.6	9.66	100	100	99.9	66
Trucks	0	Ω	0	0	5	0	0	-	~	-	2	0	0	S	-	0	0	-	10
% Trucks	0	0.9	0	0	0.6	0	0	0.3	0.1	0.8	0.4	0	0	0.4	0.4	0	0	0.1	0

N/S Street : Route 1 E/W Street: Route 152 City/State : Plainville, MA Weather : Clear

Accurate Counts 978-664-2565

File Name:696400S7 Site Code:69640007 Start Date:6/8/2019 Page No :3



Peak Hour Analysis From 02:00 PM to 04:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

+0 mins. 70 122 1 2 195 16 79 111 206 27 133 +15 mins. 78 128 0 4 210 11 82 75 168 40 131 +30 mins. 68 145 0 1 214 13 74 88 175 26 148 +45 mins. 89 138 1 2 230 17 94 87 198 36 138 Total Volume 305 533 2 9 849 57 329 361 747 129 550 % App. Total 35.9 62.8 0.2 1.1 27.6 44 83 172 550 % App. Total 35.9 62.8 0.2 1.1 7.6 44 48.3 172 73.3 % App. Total 35.9 62.8 0.2 1.1 7.6 44 48.3 172 73.3	0	02:30 PM				5	02:45 PM			-	02:15 PM				-	02:15 PM			
78 128 0 4 210 11 82 75 168 40 68 145 0 1 214 13 74 88 175 26 89 138 1 2 230 17 94 87 198 36 305 533 2 9 849 57 329 361 747 129 36 35.9 62.8 0.2 1,1 2 361 747 129 36 35.9 62.8 0.2 1,1 7.6 48.3 172 172	+0 mins.	70	122	-	2	195	16	62	111	206	27	133	27	0	187	83	83	42	208
68 145 0 1 214 13 74 88 175 26 89 138 1 2 230 17 94 87 198 36 305 533 2 9 849 57 329 361 747 129 36 35.9 62.8 0.2 1,1 7.6 44 48.3 172 172 94.7 7.6 44 48.3 361 747 129 95.9 62.8 0.2 1,1 7.6 44 48.3 172	+15 mins.	78	128	0	4	210	11	82	75	168	40	131	ø	0	179	68	81	30	179
89 138 1 2 230 17 94 87 198 36 305 533 2 9 849 57 329 361 747 129 36 35.9 62.8 0.2 1,1 7.6 44 48.3 17.2 0.7 7.0 7.6 44 48.3 0.7 0.7 0.7	+30 mins.	68	145	0	1	214	13	74	88	175	26	148	11	0	185	62	66	32	160
305 533 2 9 849 57 329 361 747 129 35.9 62.8 0.2 1,1 7.6 44 48.3 17.2 67.7 50.0 7.0 62.8 0.2 1,1 7.6 44 48.3 17.2	+45 mins.	89	138	-	2	230	17	94	87	198	36	138	24	÷	199	57	94	42	193
35.9 62.8 0.2 1,1 7.6 44 48.3 17.2 77.0 007 007 007 007 007 007 007	Total Volume	305	533	2	6	849	57	329	361	747	129	550	70	-	750	270	324	146	740
	% App. Total	35.9	62.8	0.2	1,1		7.6	44	48.3		17.2	73.3	9.3	0.1		36.5	43.8	19.7	
000 /06 610 6/9 900 578 578 000 616 100 616 100	PHF	.857	.919	500	.563	.923	.838	.875	.813	206	.806	.929	.648	.250	.942	.813	.862	.869	.889

File Name : 696400S7 Site Code : 69640007 Start Date : 6/8/2019 Page No : 1

From SouthRightLeft633251275127	From	Right U-TR 0 1
Left 32 27		Left 14
32 27	eft Thru	-
27	14 84	
	1 66	21
83 40 130	26 83	^N
111 26 147	16 79	-
308 125 518	77 312	7
74 35 138	11 82	, -
88 25 122	13 74	`
87 36 125	17 94	-
82 33 104	58	16
331 129 489	308	57
62 33 97	51	11
67 28 85	44	27
63 41 113	62	œ
71 44 110	64	8
263 146 405	221	54
400	841	188
20.4	43.6	9.7
10.8 4.8 16.9	10.1	2.2

Accurate Counts 978-664-2565

> N/S Street : Route 1 E/W Street: Route 152 City/State : Plainville, MA Weather : Clear

File Name:696400S7 Site Code:69640007 Start Date:6/8/2019 Page No :1

Route 1	/ Street: Route 152	Plainville, MA	Clear
Street :	eet: 1	• •	
N/S Str	E/W Str	City/State	Weather

Accurate Counts 978-664-2565

		From North	1 Xth		йŭ	Route 152 From East			Route 1 From South	1 It		Ϋ́Ϋ́Ϋ́Ϋ́Υ	Route 152 From West		
Start Time	Left	Thru	Right	U-TR	Left	Thru	Right	Left	Thru	Right	U-TR	Left	Thru	Right	Int. Total
02:00 PM	0	0	0	0	0	0	0	0	Ŧ	0	0	0	0	0	
02:15 PM	0	0	0	0	0	-	0	0	٣	0	0	0	0	0	2
02:30 PM	0	1	0	0	0	0	0	0	٣	0	0	-	0	0	ę
02:45 PM	0	0	0	0	0	0	0	0	÷	0	0	0	0	0	-
Total	0	.	0	0	0	.	0	0	4	0	0	٣	0	0	7
03:00 PM	0	ы	0	0	0	0	~	-	0	0	0	0	0	0	5
03:15 PM	0	-	0	0	0	0	0	0	0	0	0	0	0	0	-
03:30 PM	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2
03:45 PM	-	~	0	0	0	0	0	0	0	0	0	÷.	0	0	e
Total	. 5 .0	ъ	0	0	0	0	(* 7)	-	2	0	0	-	0	0	÷
04:00 PM	0	0	0	0	0	0	0	0	T	0	0	0	0	0	
04:15 PM	0	0	0	0	0	0	0	0	÷-	0	0	-	0	0	2
04:30 PM	0	0	0	0	0	0	0	0	-	0	0	4	0	0	2
04:45 PM	0	0	0	X	0	0	2	0	0	0	0	0	0	0	Ċ
Total	0	0	0	.	0	0	7	0	m	0	0	2	0	Q	
Grand Total	-	9	0	Ŧ	0	~	n	-	6	0	0	4	0	0	26
Apprch %	12.5	75	0	12.5	0	25	75	10	06	0	0	100	0	0	
Total %	2 0	23.1	c	0 0	c	0 0	1 4 4	000	0.40	c	c	10.1	c	0	

N/S Street : Route 1 E/W Street: Route 152 City/State : Plainville, MA Weather : Clear

File Name : 696400S7 Site Code : 69640007 Start Date : 6/8/2019 Page No : 1

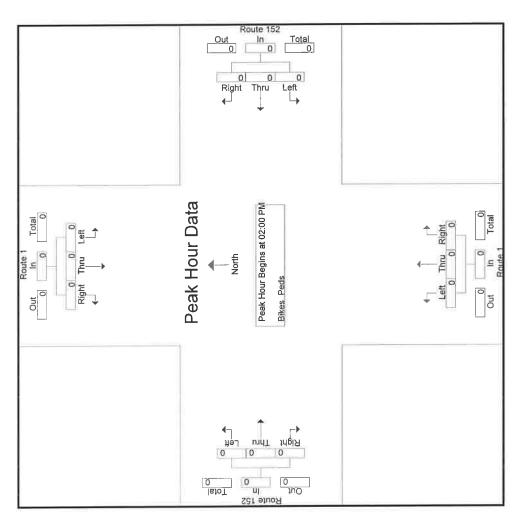
	From North				From Fast	52 ast			From South	e 1 Outh			From West	52 fest				
Thru	Ŕ	ght	U-TR	Left	Thru	Right	Peds	Left	Thru	Right	U-TR	Left	Thru	Right	Peds	Exclu. Total	Inclu. Total	Int. Total
0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0		0	0	0	0	0	-	0	0	0	0	0	0	0	0	-	0	1
0		0	0	0	0	0	0	0	0	0	0	0	o	0	0	0	0	0
0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0		0	0	0	0	0	-	0	0	0	0	0	0	0	0	÷	0	-
0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	_	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	7
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	2
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	-
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٣	*	0	
	0	0	0	0	0	0	-	0	0	0	0	0	0	0	e	4	0	4
	0	0		0	0	0		0	0	0		0	0	0		100	C	

N/S Street : Route 1 E/W Street: Route 152 City/State : Plainville, MA Weather : Clear

File Name = 696400S7 Site Code = 69640007 Start Date = 6/8/2019 Page No = : 2

		From	From North			From	From East			From Sour	From South			From West	West		
Start Time	Left	Thru	Right	Thru Right App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 02:00 PM to 04:45 PM - Peak 1 of 1	om 02:00 l	PM to 04:4.	5 PM - Pe	ak 1 of 1				-									
Peak Hour for Entire Intersection Begins at 02:00 PM	Itersection	Begins at	02:00 PM														
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0		
PHF	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000.	000	000

> N/S Street : Route 1 E/W Street: Route 152 City/State : Plainville, MA Weather : Clear



File Name : 696400S7 Site Code : 69640007 Start Date : 6/8/2019 Page No : 3

> Peak Hour Analysis From 02:00 PM to 04:45 PM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

	0	0	0	0	0		000
	0	0	0	0	0	0	000
	0	0	0	0	0	0	000.
02:00 PM	0	0	0	0	0	0	000.
0	0	0	0	0	0		000
	0	0	0	0	0	0	000
	0	0	0	0	0	0	000
02:00 PM	0	0	0	0	0	0	000
8	0	0	0	0	0		000
	0	0	0	0	0	0	000
	0	0	0	0	0	0	000
02:00 PM	0	0	0	0	0	0	000
30	0	0	0	0	0		000
	0	0	0	0	0	0	000
	0	0	0	0	0	0	000
02:00 PM	0	0	0	0	0	0	000
20	+0 mins.	+15 mins.	+30 mins.	+45 mins.	Total Volume	% App. Total	PHF

PROJECT SITE DRIVEWAY COUNTS

Location : Plainridge Park Casino Location : East of Route 1 City/State: Plainville, MA

Start	6/3/2019	C	Dut	Hour	Totals		n		Totals		ed Totals
Time	Mon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afterno
12:00		17	49			4	76				
12:15		21	48			4	85				
12:30		10	54			5 5	83		1		
12:45		15	43	63	194	5	103	18	347	81	5
01:00		14	47			2	91				
01:15		13	62			2 3	65				
01:30		7	56			3	90				
01:45		13	69	47	234	4	88	12	334	59	5
02:00		5	66			1	66				
02:15		8	70			0	62				
02:30		6	72			6	62				
02:30		8	66	27	274	2	84	9	274	36	ł
02.45		7	65	21	214	7	90	0	2, 4	00	
03.00		7	70			2	66				
03:15			80			4	72				
03:30		3		04	276	6	58	19	286	43	
03:45		7	61	24	270		48	19	200	40	Ì
04:00		2	50			1	50				
04:15		6	54			5	50				
04:30		7	75		0.15	1	59	40	100	20	
04:45		7	66	22	245	3	36	10	193	32	4
05:00		4	69			5	34				
05:15		3	67			6	26				
05:30		7	79			10	29				
05:45		0	67	14	282	14	38	35	127	49	
06:00		8	58			8	45				
06:15		11	55			12	36				
06:30		12	52			16	43				
06:45		7	54	38	219	22	34	58	158	96	;
07:00		8	78		E	20	39				
07:15		8	73		1	19	31				
07:30		18	56			16	34				
07:45		17	96	51	303	23	28	78	132	129	4
08:00		9	79			20	32				
08:15		16	53			33	27		1		
08:30		17	35			19	28		1		
08:45		8	29	50	196	35	29	107	116	157	
09:00		16	32			34	23				
09:15		22	26			36	13				
09:30		17	29			44	23				
09:45		16	26	71	113	48	28	162	87	233	:
10:00		20	36	, ,		52	12				
		17	22		1	54	14				
10:15		29	19			68	13		ſ		
10:30		29	29	92	106	62	22	236	61	328	
10:45		26	29	92	100	72	13	200		520	
11:00		26	45			72					
11:15		47	26			72	15				
11:30		34	24	10000		79	7	000		400	
11:45		50	22	157	117	83	20	306	55	463	
Total		656	2559			1050	2170			1706	4
Percent		20.4%	79.6%			32.6%	67.4%			26.5%	73,

Page 1

.

Start	6/4/2019	C	Dut	Hour	Totals		In	Hour	Totals	Combin	ed Totals
Time	Tue	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoor
12:00		17	47	10.000		3	58				
12:15		21	54			6	76		1		
12:30		12	47			0	68				
12:45		12	50	62	198	2	57	11	259	73	45
01:00		8	58	UL.	100	4	65		200		
			50			2	56				
01:15		10	50								
01:30		14	53	10	000	0	52	10	0.40	50	40
01:45		14	72	46	233	4	75	10	248	56	48
02:00		13	66			4	54				
02:15		8	67			0	54				
02:30		7	48			1	56				
02:45		6	54	34	235	2	58	7	222	41	45
03:00		1	52			1	52				
03:15		4	60			1	56				
03:30		2	74			4	52				
03:45		5	67	12	253	7	45	13	205	25	45
04:00		3	60			1	44				
04:15		5	55			3	53				
04:30		6	62			2	56				
		5	50	19	227	2 5	56	11	209	30	43
04:45				19	221	4	37		203	50	
05:00		4	44								
05:15		4	54			3	52				
05:30		4	56			2	28				
05:45		4	54	16	208	13	31	22	148	38	35
06:00		10	47			13	42				
06:15		8	53			7	43				
06:30		5	47			13	38				
06:45		3	48	26	195	18	30	51	153	77	34
07:00		9	51			12	45				
07:15		5	54			16	40				
07:30		11	44			18	36				
07:45		12	44	37	193	26	34	72	155	109	34
08:00		10	36	0.	100	26	34				
08:00		25	34			24	34				
		23	41		1	28	28				
08:30					154	40	20	118	118	173	27
08:45		11	43	55	104		22	110	110	175	21
09:00		20	42			40	21				
09:15		8	39			30	17				
09:30		18	31			43	26				
09:45		22	34	68	146	58	29	171	93	239	23
10:00		22	32			59	29				
10:15		34	30			60	18				
10:30		33	29		1	50	13				
10:45		24	36	113	127	63	16	232	76	345	20
11:00		22	37			64	14				
11:15		36	27			56	14				
11:30		27	31			70	12				
			24	124	119	57	16	247	56	371	17
11:45		39		124	1191			241	50		423
Total		612	2288			965	1942			1577	
Percent		21.1%	78.9%			33.2%	66.8%			27.2%	72.8

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69640001

Location : Plainridge Park Casino Location : East of Route I City/State: Plainville, MA

	Combin	Totals		n		Totals		Out		6/5/2019	Start
Afternoor	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Wed	Time
				57	9			29	23		12:00
				47	2			24	10		12:15
				56	2 3			39	22		12:30
35	89	222	16	62	3	128	73	36	18		12:45
				54	1			34	13		01:00
		8		49	1			34	21		01:15
				54	3			44	6		01:30
37	62	204	7	47	2	167	55	55	15		01:45
				56	2			52	8		02:00
				42	1			59	4		02:15
				47	4			52	11		02:30
40	38	196	11	51	4	211	27	48	4		02:45
				66	1			56	11		03:00
				42	1			46	6		03:15
				40	2			50	3		03:30
39	34	198	8	50	4	200	26	48	6		03:45
			•	33	1	200	20	58	4		04:00
				41	3			60	6		04:15
				38	2	1		46	2		04:10
35	23	147	8	35	2 2	208	15	44	3		04:45
00	20	147	0	40	0	200	15	53	1		04.45
				36	5			54	1		05.00
				36	6	-		54			05:15
35	32	164	24	52	13	191	8	28	2 4		05:30
55	52	104	24	28	13	191	0		4		05:45
				38	11			42	14		06:00
					11			42	9		06:15
04	00	1.10	50	37	10 27	100		43	6		06:30
31	92	149	59	46	27	166	33	39	4		06:45
				37	16			37	8		07:00
				35	12			48	10		07:15
	~~~	100		23	18			30	12		07:30
27	98	122	63	27	17	152	35	37	5		07.45
				19	20			45	14		08:00
				16	17			46	15		08:15
				20	25			42	10		08:30
23	149	79	96	24	34	160	53	27	14		08:45
				22	28			29	12		09:00
				21	18			32	14		09:15
				12	38			38	10		09:30
19	174	69	126	14	42	125	48	26	12		09:45
				12	34			28	13		10:00
				8	34			29	15		10:15
				11	45			43	14		10:30
17	233	52	161	21	48	127	72	27	30		10:45
				9	45			25	19		11:00
				8	48			16	24		11:15
				7	47			32	26		11:30
12	305	33	200	9	60	90	105	17	36		11:45
356	1329	001	200	1635	779	001	100	1925	550		Total
72.89	27.2%			67.7%	32.3%			77.8%	22.2%		Percent

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69640001

Start	6/6/2019	C	Dut	Hour	Totals		In		Totals	Combin	ed Totals
Time	Thu	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoor
12:00		21	44			6	82	11120-000000000000000000000000000000000			
12:15		16	45			2	86				
12:30		9	53			3	96				
12:45		9	63	55	205	2	96	13	360	68	56
01:00		17	48			1	70				
01:15		7	44			5	86				
01:30		9	54			4	91		1		
		8	58	41	204	6	82	16	329	57	53
01:45		0	56	41	204	1	74	10	525	57	
02:00		3 6	66			1	72				
02:15		0					60				
02:30		3 3	91	4.5	000	2		0	000	04	50
02:45		3	67	15	280	2	76	6	282	21	56
03:00		5 7	56			2	70				
03:15		7	78			2	61		1		
03:30		7	79			4	80				
03:45		5	60	24	273	3	75	11	286	35	55
04:00		5	54			0	56				
04:15		5 2	72			6	65				
04:30		4	62			2 3	46				
04:45		4	74	15	262	3	53	11	220	26	48
05:00		2	67		E	3	56				
05:15		3	74			3	60				
05:30		3	68			6	64				
05:45		6	60	14	269	18	52	30	232	44	50
06:00		10	47		200	10	74				
06:15		5	79			15	44				
06:30		5 7	68			16	64				
		10	57	32	251	28	78	69	260	101	51
06:45				32	201	45	68	09	200	101	51
07:00		10	64								
07:15		12	67			102	61				
07:30		14	90			80	38				
07:45		8	122	44	343	37	45	264	212	308	55
08:00		9	100			26	40				
08:15		19	76			26	28				
08:30		20	60			24	34				
08:45		14	35	62	271	36	38	112	140	174	41
09:00		22	51			32	34				
09:15		76	72			32	34				
09:30		106	50			52	34				
09:45		42	57	246	230	48	24	164	126	410	35
10:00		26	54			42	25		1		
10:15		23	44			52	23				
10:30		27	58			58	18				
10:45		22	45	98	201	60	18	212	84	310	28
11:00		30	58	50	201	66	16	_ , _	~~	0.0	20
		30	34			66	17				
11:15		32				94	12				
11:30		30	29	100	450			200	C A	470	
11:45		46	35	138	156	106	19	332	64	470	22
Total		784	2945			1240	2595			2024	554
Percent		21.0%	79.0%			32.3%	67.7%			26.8%	73.29

69640001

#### Accurate Counts 978-664-2565

Location : Plainridge Park Casino Location : East of Route 1 City/State: Plainville, MA

Start	6/7/2019		Out		Totals		In		Totals		ed Totals
Time	Fri	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternool
12:00		32	58			4	95				
12:15		30	62			2	92				
12:30		34	51			6	91				
12:45		20	65	116	236	6	93	18	371	134	60
01:00		16	56	110	200	6	64	10	U, I	101	
01:15		10	66			3	88				
			67			3	112				
01:30		14		00	0.57	7	86	19	350	81	60
01:45		15	68	62	257	2		19	350	01	00
02:00		14	86			5	115				
02:15		11	88			3	80				
02:30		7	58			5	78				
02:45		3	70	35	302	0	82	13	355	48	65
03:00		5 9	82			1	80				
03:15		9	80			2	82				
03:30		3	80			6	94				
03:45		6	74	23	316	5	93	14	349	37	66
04:00		1	62			4	82				
04:15		6	86			6	76				
04:15		7	81			0	76				
				17	295	1	91	11	325	28	62
04:45		3	66	17	295			11	525	20	02
05:00		1	82			5	82				
05:15		2	72			3	93				
05:30		2	80			8	81				
05:45		4	86	9	320	19	97	35	353	44	67
06:00		6	88			8	68				
06:15		10	92			13	106				
06:30		10	89			18	72				
06:45		6	80	32	349	27	90	66	336	98	68
07:00		10	84			17	79				
07:15		10	92			26	87				
07:30		17	83			24	88				
		12	104	49	363	23	77	90	331	139	69
07:45		12		49	303	32	79	50	551	155	03
08:00		21	114			32					
08:15		28	106			30	82				
08:30		26	74			38	86				
08:45		11	64	86	358	42	69	142	316	228	67
09:00		20	76			32	52				
09:15		18	71			44	50				
09:30		16	71			50	51				
09:45		22	65	76	283	54	51	180	204	256	48
10:00		19	84	-		61	43				
10:15		26	104			69	31				
10:10		46	91			85	36				
		39	78	130	357	98	30	313	140	443	49
10:45		39	78	130	307	98 76	31	515	140	C++	45
11:00		31	79						0.00		
11:15		66	77			87	29				
11:30		48	62			104	36				
11:45		46	68	191	286	98	19	365	115	556	40
Total		826	3722			1266	3545			2092	726
Percent		18.2%	81.8%			26.3%	73.7%			22.4%	77.69

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#### Accurate Counts 978-664-2565

Location : Plainridge Park Casino Location : East of Route 1 City/State: Plainville, MA

Start	6/8/2019	C	Dut	Hour	Totals		In		Totals		ed Totals
Time	Sat	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoor
12:00		86	45			9	82				
12:15		59	50			8	76				
12:30		47	34		0	13	75				
12:45		33	46	225	175	5	72	35	305	260	48
01:00		33	53			1	82				
01:15		21	60			5	76				
01:30		37	48			5	75		1		
01:45		27	66	118	227	4	84	15	317	133	54
02:00		34	74			3	84				
02:15		24	60			2	91				
02:30		16	62			6	82				
02:45		15	67	89	263	Ő	106	11	363	100	62
03:00		10	71	00	200	4	88		000	100	02
03:15		16	73			4	96				
03:30		10	92			6	88				
03:45		10	82	46	318	2	98	16	370	62	68
		9	75	40	510	3	75	10	5/0	02	00
04:00		10	100		1	1	69				
04:15		10	82			5	100				
04:30		6	02	04	224		91	13	335	44	65
04:45		6	64	31	321	4		13	335	44	00
05:00		1	94			3	88				
05:15		4	62			7	87				
05:30		4	72			8	88		0.5.5	10	
05:45		10	85	19	313	12	92	30	355	49	668
06:00		12	81			8	76				
06:15		10	58			15	77				
06:30		8 7	42			18	58				
06:45		7	118	37	299	20	65	61	276	98	57
07:00		13	90			18	70				
07:15		5	86			15	52				
07:30		20	101			11	78				
07:45		9	72	47	349	20	51	64	251	111	60
08:00		9	60			20	55				
08:15		17	76			25	62				
08:30		13	81			28	58				
08:45		12	66	51	283	32	48	105	223	156	50
09:00		23	71			36	57				
09:15		17	70			45	48				
09:30		28	64			53	44				
09:45		24	72	92	277	64	43	198	192	290	46
10:00		26	85			71	40				
10:15		40	67			68	40				
10:30		36	59			88	33				
10:45		53	72	155	283	74	34	301	147	456	43
11:00		45	64	100	200	96	24	001		.00	.0.
11:15		48	69			90	17		P		
11:30		40 52	68			50 74	23				
11.30		52 61	53	206	254	98	26	358	90	564	34
11:45				200	204	1207	3224	300	50	2323	658
Total		1116	3362			1207					73.9%
Percent		24.9%	75.1%			27.2%	72.8%			26.1%	13.99

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Start	6/9/2019	C	Dut	Hour	Totals		n	Hour	Totals	Combin	ed Totals
Time	Sun	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoor
12:00		68	37			15	52				
12:15		44	44			15	79		1		
12:30		61	40			11	81				
12:45		45	42	218	163	8	89	49	301	267	464
01:00		38	40	2.0		6	96				
01:15		36	40			õ	87				
01:30		26	48			7	73				
01:45		20	32	124	160	5	60	18	316	142	476
				124	100	3	77	10	310	142	470
02:00		22	54			3					
02:15		23	54			2 2	64				
02:30		10	68	07	007		104	0	202	76	
02:45		12	51	67	227	1	83	8	328	75	555
03:00		11	68			2	66				
03:15		13	71			1	81				
03:30		8	82			3	61				
03:45		8	70	40	291	2	74	8	282	48	573
04:00		9	88		_	0	51				
04:15		6	78			3	46				
04:30		6	77			3	60				
04:45		8	72	29	315	1	54	7	211	36	526
05:00		4	74			5	38				
05:15		8	76			4	38				
05:30		7	46			10	38				
05:45		10	60	29	256	17	32	36	146	65	402
06:00		8	75			12	36				
06:15		6	57			14	44				
06:30		5	62			24	48				
06:45		10	66	29	260	17	31	67	159	96	419
			00	29	200	15	31	07	128	90	419
07:00		10	66								
07:15		5	46			11	40				
07:30		13	50	15	0.47	24	32	7.5		100	
07:45		17	55	45	217	25	44	75	147	120	364
08:00		16	50			22	19				
08:15		11	48			20	21				
08:30		15	42			36	34				
08:45		7	37	49	177	25	22	103	96	152	273
09:00		22	49			33	19				
09:15		22	30			33	21		56		
09:30		23	31			39	22				
09:45		16	27	83	137	43	13	148	75	231	212
10:00		21	43			32	16				
10:15		22	16		10	47	18				
10:30		14	23			44	16				
10:45		35	29	92	111	51	15	174	65	266	176
11:00		31	40			52	16				
11:15		35	38			54	10				
11:30		30	30			64	8				
11:45		41	1	137	109	68	1	238	35	375	144
Total		942	2423	157	109	931	2161	200	55	1873	4584
			2423			20.19/	60.09/				
Percent		28.0%	72.0%			30.1%	69.9%			29.0%	71.0%
Grand		5486	19224			7438	17272			12924	36496
iotal											
Total						3() 19/.	60.0%			16 20/	/7 2 0/.
Percent		22.2%	77.8%			30.1%	69.9%			26.2%	73.8%

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Accurate Counts 978-664-2565	
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Location : Plainridge Park Casino Location : East of Route 1 City/State: Plainville, MA

69640001

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Week Average	Ľ	23	14	<b>б</b>	13	10	30	62	101	112	164	233	292	309	300	289	282	234	218	213	193	155	121	68	64					12:00		7059	
Week /	Out	116	70	42	28	21	16	32	44	58	86 86	107	151	186	212	256	275	268	263	248	274	228	187	187	162	3529	02	11:00	151	15:00	275		
_	l	49	18	80	œ	2	36	67	75	103	148	174	238	301	316	328	282	211	146	159	147	96	75	65	35	3092		`		Ľ	328	6457	
Sun	Out	218	124	67	40	29	29	29	45	49	83	92	137	163	160	227	291	315	256	260	217	177	137	111	109	3365	6457	00:00	218	16:00	315	64	
	IJ	35	15	11	16	13	30	61	64	105	198	301	358	305	317	363	370	335	355	276	251	223	192	147	90			•		15:00		8909	
Sat	Out	225	118	89	46	31	19	37	47	51	92	155	206	175	227	263	318	321	313	299	349	283	277	283	254	4478	8068	00:00	225	19:00	349	89	
	E	18	19	13	14	11	35	66	06	142	180	313	365	371	350	355	349	325	353	336	331	316	204	140	115					12:00	- 1	9359	
Ľ	Out	116	62	35	23	17	თ	32	49	86	76	130	191	236	257	302	316	295	320	349	363	358	283	357	286	4548	9359	11:00	191	19:00	363	63	
	<u> </u>	13	16	9	11	11	30	69	264	112	164	212	332	360	329	282	286	220	232	260	212	140	126	84	64	3835		11:00	332	12:00	360	7564	
Thu	Out	55	41	15	24	15	14	32	44	62	246	98	138	205	204	280	273	262	269	251	343	271	230	201	156	3729	7564	00:60	246	19:00	343	75	
	Ц	16	7	11	80	00	24	59	63	96	126	161	200	222	204	196	198	147	164	149	122	79	69	52	33			11:00	200	12:00	222	4889	
Wed	Out	73	55	27	26	15	80	33	35	53	48	72	105	128	167	211	200	208	191	166	152	160	125	127	06	2475	4889	11:00	105	14:00	211	48	
	<u>n</u>	11	10	7	13	11	22	51	72	118	171	232	247	259	248	222	205	209	148	153	155	118	93	76	56	2907		11:00	247	12:00	259	5807	
Tue	Out	62	46	34	12	19	16	26	37	55	68	113	124	198	233	235	253	227	208	195	193	154	146	127	119	2900	5807	11:00	124	15:00	253	58	
о О	Ľ	18	12	6	19	10	35	58	78	107	162	236	306	347	334	274	286	193	127	158	132	116	87	61	55	3220		11:00	306	12:00	347		
6/3/2019	Out	63	47	27	24	22	14	38	51	50	71	92	157	194	234	274	276	245	282	219	303	196	113	106	117	3215	6435	11:00	157	19:00	303	6435	
				02:00	03:00	04:00	05:00	00:90	07:00	08:00	00:60	10:00	11:00	12:00 PM	01:00	02:00	03:00	04:00	05:00	06:00	00:20	08:00	00:60	10:00	11:00	Lane	Day	AM Peak	Vol.	PM Peak	Vol	Comb. Total	

SEASONAL ADJUSTMENT FACTOR

epartment	
Massachusetts Highway Department	

<b>TITALITIAN OFFACTIONALITIAN </b>			6248 NORFOLK 1	LK						3 G 4	Seasonal Factor Group: Daily Factor Group: Avla Eactor Group:	Factor ( tor Grou	Group: .p:	5 5	U1-Boston	<b>_</b> (				
0100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100100 <th< th=""><th></th><th></th><th>INTERS</th><th>IATE 9</th><th>5, North</th><th>of I-499</th><th>5 in Foxl</th><th>borougl</th><th>£</th><th>20</th><th>rowth F</th><th>actor G</th><th>roup:</th><th>5</th><th>L-BUSIO</th><th>=</th><th></th><th></th><th></th><th></th></th<>			INTERS	IATE 9	5, North	of I-499	5 in Foxl	borougl	£	20	rowth F	actor G	roup:	5	L-BUSIO	=				
10.11.10.1.10.0.10.1.10.0.10.1.10.0.10.1.10.0.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1.10.1	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	00:6	10:00										
1112060060070070160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160160	-	559	700	1719	5231	6083								~	00					
11100100101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101101	851	645	711	1698	5003	6860	8709	7087	6985	5805	5884	6518		8062	9279	8037				
11163013013034701303470750750730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730730	1285	1012	778	1006	1909	2996	4312	5108	5702	6412	7218	7328	7470	7755	7898					
1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	1461	1069	LLL	634	066	1721	2593	3439	4767	6062	6971	7640	7243	7314	7482					
11111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111	680	523	612	1645	4570	5622	8347	7971	6181	5357	5521	5466	5817	7274	7815					
1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111 <td>736</td> <td>552</td> <td>641</td> <td>1735</td> <td>5300</td> <td>7563</td> <td>8880</td> <td>8052</td> <td>6486</td> <td>5525</td> <td>5529</td> <td>5691</td> <td>6066</td> <td>7498</td> <td>8486</td> <td></td> <td></td> <td></td> <td></td> <td></td>	736	552	641	1735	5300	7563	8880	8052	6486	5525	5529	5691	6066	7498	8486					
1010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010 <td>845</td> <td>632</td> <td>723</td> <td>1793</td> <td>5425</td> <td>7220</td> <td>9061</td> <td>8228</td> <td>6506</td> <td>5776</td> <td>5594</td> <td>5771</td> <td>6330</td> <td>7321</td> <td>8332</td> <td></td> <td></td> <td></td> <td></td> <td></td>	845	632	723	1793	5425	7220	9061	8228	6506	5776	5594	5771	6330	7321	8332					
70161661362016041611713713713613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613713113514513613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613613	847	614	705	1696	5054	7269	8506	7586	6361	5481	6586	6671	6983	8446	8009	8405				
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660173651171388757873764335553541583654158365431563534543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543543 </td <td>838</td> <td>691</td> <td>737</td> <td>1738</td> <td>5260</td> <td>7028</td> <td>9107</td> <td>8791</td> <td>6479</td> <td>5368</td> <td>5393</td> <td>5577</td> <td>6120</td> <td>6980</td> <td>8008</td> <td>8612</td> <td></td> <td></td> <td></td> <td></td>	838	691	737	1738	5260	7028	9107	8791	6479	5368	5393	5577	6120	6980	8008	8612				
697179152247043898684.164.167.157.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.167.	775	601	660	1736	5171	7318	8757	8279	6433	5655	5541	5836	6121	6992	8153	8457	2006			
63315113134593871717223623862376317631778207323731373144453532444535324533635303530353035303530353335313513351335133513351335133513351335133513351335133513351335133513351335133513351335133513351335133513351335133513351335133513351335133513351335133513351335133513351335133513351335133513351335133513351335133513351335133513351335133513351335133513351335133513351335133513351335133513351335133513351335133513351335133513351335133513351335313513353135313531353135313531353135313531353135313531353135313531353135313531353135313531353135313531353135313531353135313531353135313531353135313531353135313531353135313531353135313531353	793	651	697	1791	5224	7043	8986	8431	6612	5724	5770	5930	6350	7440	8071	8393				
73894415731434497256316723716579058426754175616915757147914791710701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701701	929	672	683	1517	3134	5958	TTTT	7252	6225	6258	6270	6377	6931	7820	7332	7013				
890         704         955         1642         7476         7565         7804         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         7436         74	1114	933	798	934	1697	2732	4134	4972	5631	6729	7165	7905	8025	8422	8426	7913				
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64         183         527         7337         865         833         6616         579         522         602         614         735         873         873         873         873         315         226           67         176         5097         721         8687         8305         6594         6026         5949         6038         877         726         879         786         733         286         723           762         177         5036         6986         797         754         603         877         873         879         788         733         286         232           762         177         5036         6987         740         653         879         587         587         437         316         733         285           763         997         769         6397         752         879         879         587         587         587         587         587         587         587         593         594         593         594         593         594         593         594         593         594         593         594         593         594         593         594         594	726	565	717	1743	4758	6516	8234	8320	6338	5632	5856	5830	5779	6077	6783	8036				
674         1776         5097         7221         8687         8304         6549         6036         5747         726         8374         8997         7680         5487         3783         2395         2333         2395         2233           762         1773         5036         6386         7971         7409         6334         6347         7510         8773         8771         8787         5887         3368         2335           780         932         1972         5939         6374         8731         8791         8791         5894         4737         3468         2335           780         932         1972         5932         5943         6391         710         750         8731         8792         5893         4737         5419         7315         5434           772         693         7031         7032         7032         7032         7032         7032         7032         7034         7037         7034         7037         7034         7034         7034         7034         7034         7034         7034         7034         7034         7034         7034         7034         7034         7034         7034	742	577	694	1833	5527	7537	8625	8333	6616	5759	5922	6082	6175	7336	8332					
762         1773         5036         6386         740         6334         6346         6391         7101         7570         8731         8745         5691         7287         5687         4430         5687         3368         2932           780         992         1972         2892         4015         7470         5343         5056         593         7370         7365         737         7392         7392         7393         7392         7394         7371         411         477         4137         7315         7343           726         633         1008         1529         5563         5040         5149         7349         7355         5044         4377         3139         2941         2941           729         178         5564         5349         5345         5346         5349         7355         5959         5934         4377         3139         2034         2931         2041         2034         2931         2041         2034         2931         2041         2034         2934         2934         2934         2934         2934         2934         2934         2934         2934         2934         2934         2934 <t< td=""><td>920</td><td>670</td><td>674</td><td>1776</td><td>2097</td><td>7221</td><td>8687</td><td>8305</td><td>6594</td><td>6062</td><td>5949</td><td>6098</td><td>6277</td><td>7266</td><td>8374</td><td></td><td></td><td></td><td></td><td></td></t<>	920	670	674	1776	2097	7221	8687	8305	6594	6062	5949	6098	6277	7266	8374					
780         921         1972         2892         4015         4733         666         6915         7340         7538         7739         7538         6504         4771         411         4572         4387           712         693         1008         1629         2563         3804         501         6450         7348         670         7294         5879         5374         4373         3319         2941         2343         2941         2041         5041         5419         7341         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411         7411	606	683	762	1773	5036	6986	7971	7409	6334	6348	6891	7101	7570	8372	8731					
726         633         1008         1629         2563         800         630         7354         6390         7059         7207         6568         6970         7294         5373         3319         2341         2341         2341         2341         2341         2341         2341         2341         2341         2341         2341         2341         2341         2341         2341         2341         2341         2341         2341         2341         2341         2341         2341         2341         2342         2341         2341         2342         2341         2343         2341         2342         2341         2343         2341         2343         2341         2343         2341         2343         2341         2343         2341         2343         2341         2343         2341         2343         2341         2343         2343         2343         2343         2343         2341         2343         2343         2343         2343         2341         2343         2341         2343         2341         2343         2341         2343         2341         2341         2341         2343         2341         2341         2341         2341         2341         234	1184	1005	780	266	1972	2892	4015	4720	5343	6068	6915	7340	7528	6777	7903	7926				
729         1782         5264         7363         8579         8233         5916         6325         6399         7356         8399         7319         5323         4002         2419         2034           662         1838         5371         7373         8705         8393         6515         5144         8164         3259         2868         1834           662         1838         6517         5564         5595         5934         6105         7142         8334         8603         7610         7314         4164         3259         2638         1834           668         1761         5206         6535         5134         6105         7142         8115         8503         7610         7154         4156         3552         3006         2531           716         1839         5425         733         8711         9771         973         7847         456         3724         3006         2531           716         1839         5425         6539         6539         7533         8741         9271         9373         7847         456         3724         3006         2531           716         1839         5425 </td <td>1587</td> <td>1083</td> <td>726</td> <td>693</td> <td>1008</td> <td>1629</td> <td>2563</td> <td>3804</td> <td>5010</td> <td>6456</td> <td>7349</td> <td>7354</td> <td>0669</td> <td>7059</td> <td>7207</td> <td></td> <td></td> <td></td> <td></td> <td></td>	1587	1083	726	693	1008	1629	2563	3804	5010	6456	7349	7354	0669	7059	7207					
662         1838         5371         7373         8705         5934         6505         7142         8334         8603         7610         7344         4164         3259         2688         1834           668         1761         5206         7039         6050         6439         7290         8134         4164         3259         2688         1834           716         1839         5426         773         6012         6009         6050         6439         7290         8115         8580         8536         7599         3562         3006         2531           716         1839         5425         7386         6089         6079         6368         6559         7533         8741         9271         9373         7847         4756         3724         3020         2291           716         1839         5425         7808         6575         7414         8070         7089         7178         7717         5944         4756         3724         3020         2291           805         1801         5041         6771         9373         7847         5944         4756         3724         3020         2291           80	1343	679	729	1782	5264	7363	8579	8237	6481	5966	5823	5918	6056	6899	7556	8592				
668         1761         5206         7059         8635         7290         8115         8536         7619         5855         4539         3562         3006         2531           716         1839         5425         7386         8847         8475         6856         6089         6050         6439         7290         8141         9271         9373         7847         5944         4756         3724         3020         2291           716         1839         5425         7386         8559         7533         8741         9271         9373         7847         5944         4756         3724         3020         2291           805         1801         5041         6771         9373         7847         5944         4756         3724         3020         2291           805         1801         5041         6776         7448         8070         7089         7178         7315         6772         5913         4522         3205         3593         3593	697	565	662	1838	5371	7373	8705	8393	6577	5564	5595	5934	6105	7142	8334	8603				
716 1839 5425 7386 8847 8475 6856 6089 6079 6368 6559 7533 8741 9271 9373 7847 5944 4756 3724 3020 2291 805 1801 5041 6776 7808 7573 6436 6402 6486 6987 7414 8070 7089 7178 7315 6772 5913 4522 3892 3218 2593	835	621	668	1761	5206	7059	8865	8043	6773	6212	6009	6050	6439	7290	8115			-		
805 1801 5041 6776 7808 7573 6436 6402 6486 6987 7414 8070 7089 7178 7315 6772 5913 4522 3892 3218 2593	822	654	716	1839	5425	7386	8847	8475	6856	6089	6079	6368	6559	7533	8741					
	885	666	805	1801	5041	6776	7808	7573	6436	6402	6486	6987		8070	7089	7178				

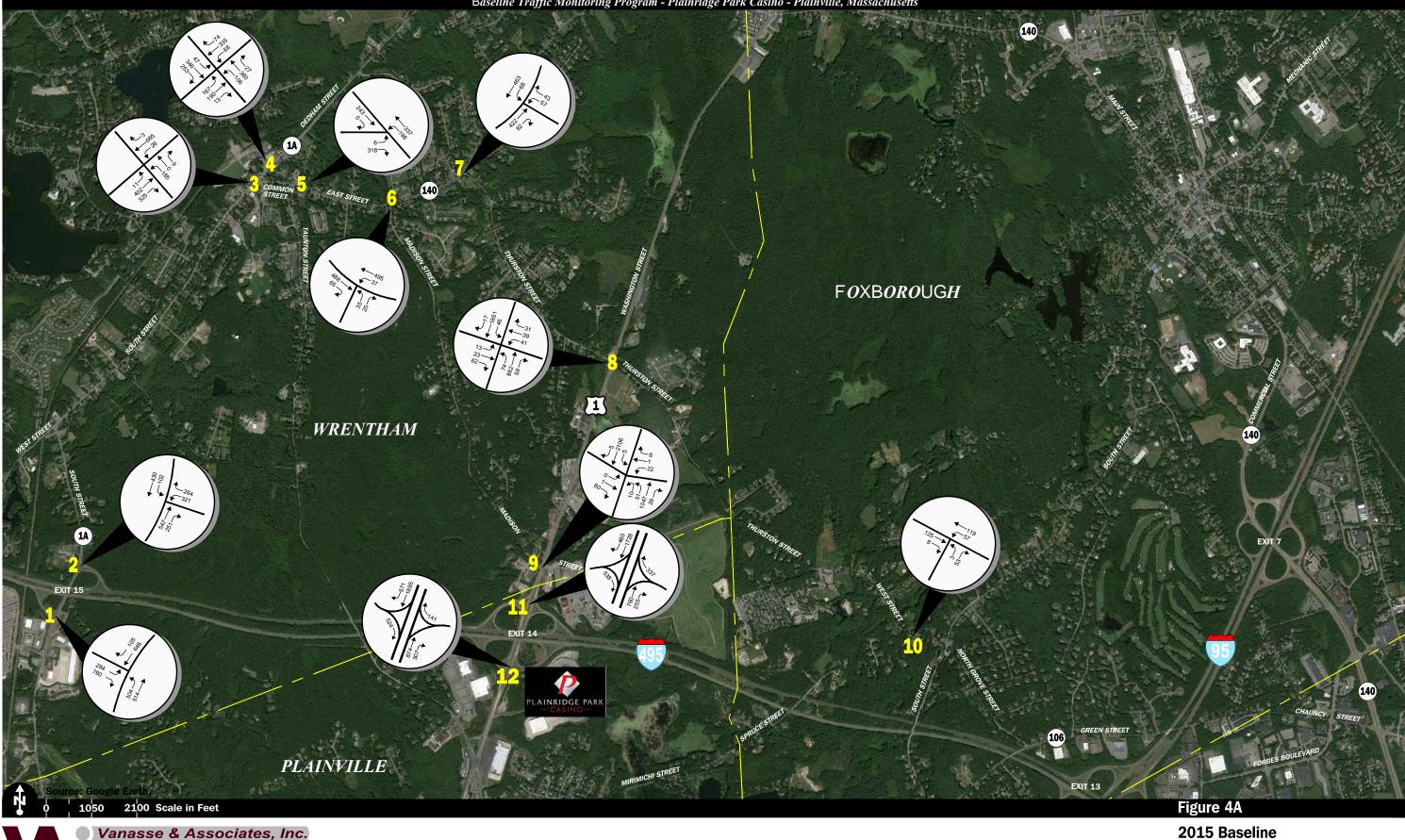
0.915 Adjustment Factor =

109,256 Yearly Average =

119367.8

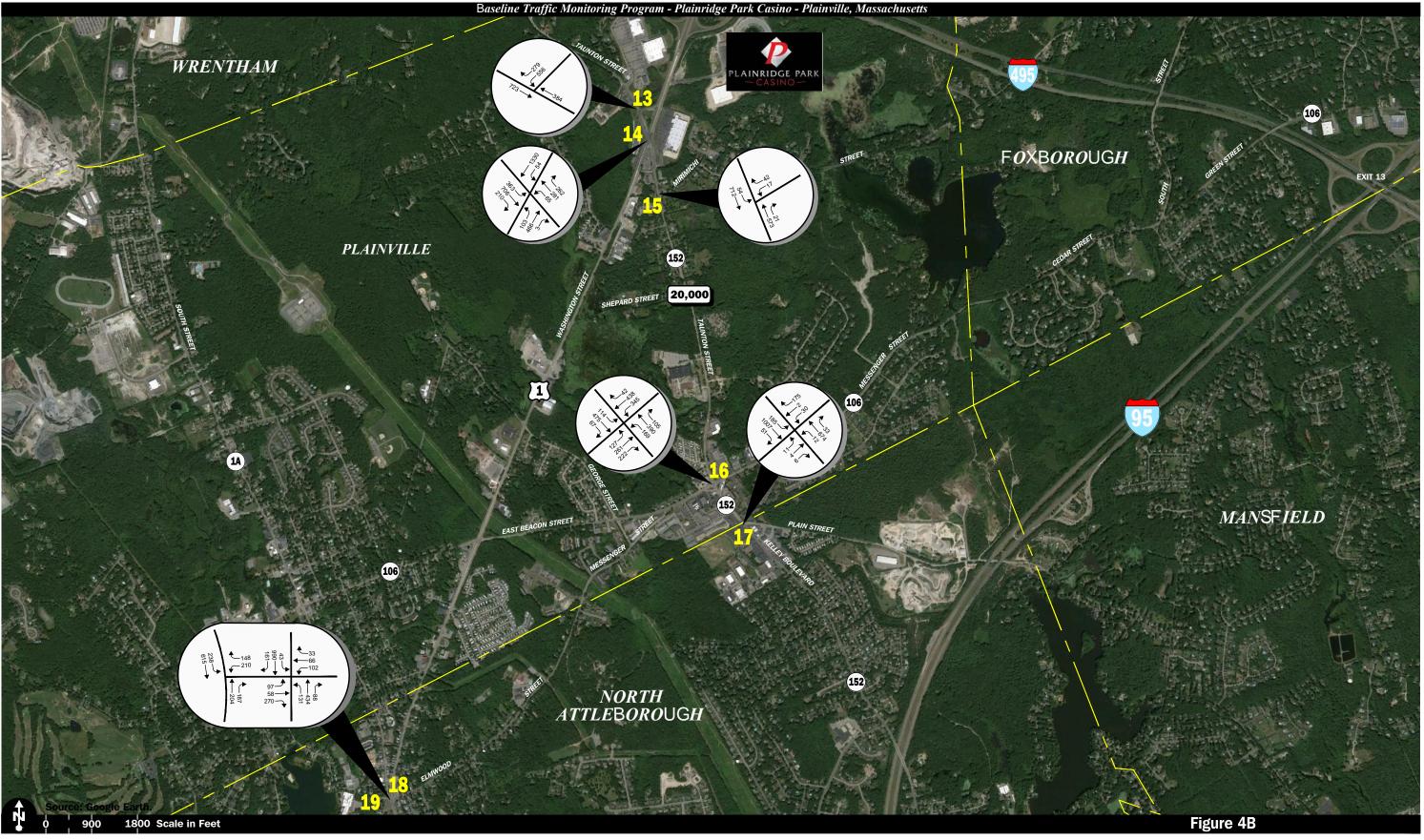
Monthly Average =

2015 BASELINE TRAFFIC-VOLUME NETWORKS



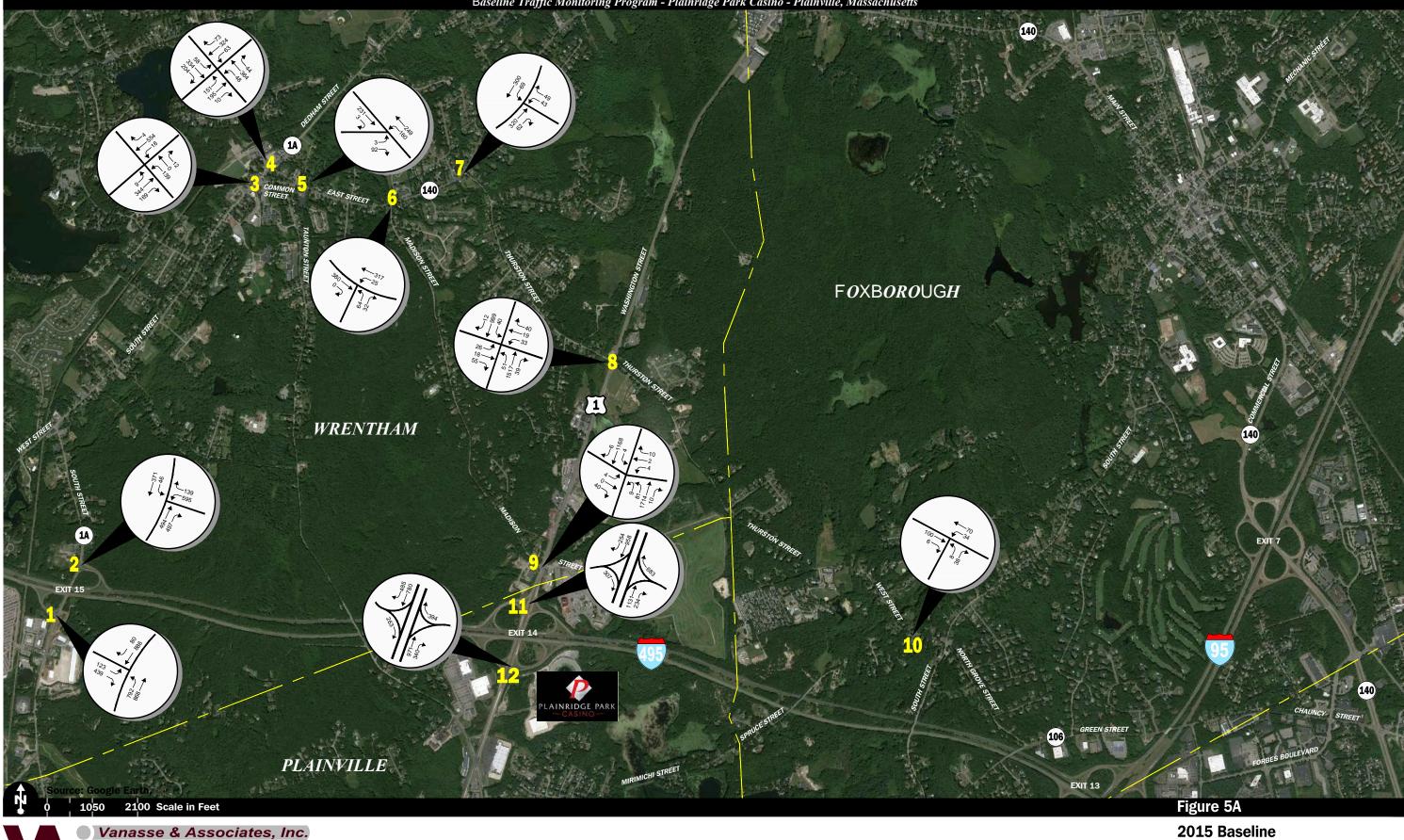
Vanasse & Associates, Inc. Transportation Engineers & Planners

Friday Evening Peak Hour Traffic Volumes Average-Month Coniditions



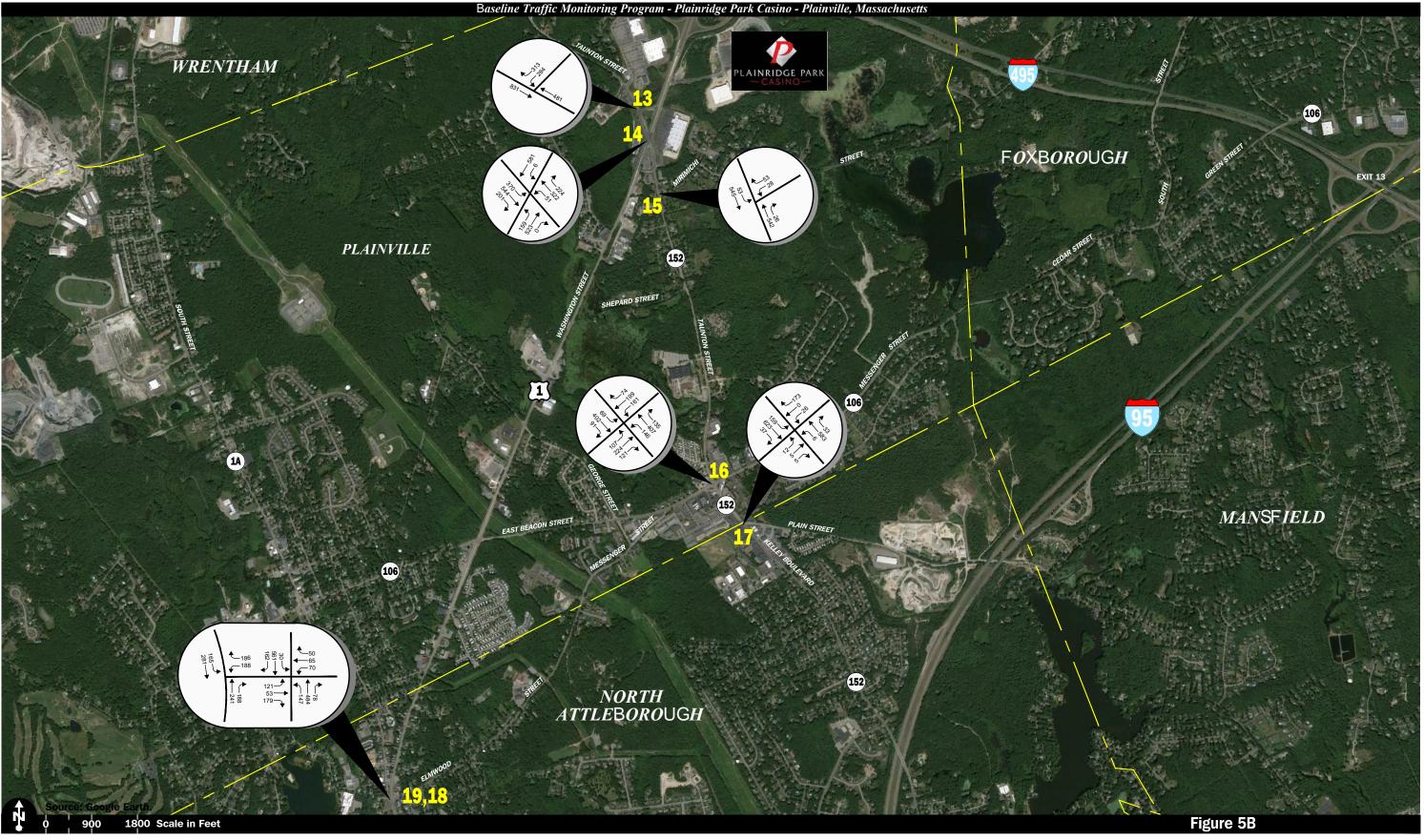


2015 Baseline Friday Evening Peak Hour Traffic Volumes Average-Month Conditions



Vanasse & Associates, Inc. Transportation Engineers & Planners

Saturday Afternoon Peak Hour Traffic Volumes Average-Month Coniditions





Vanasse & Associates, Inc. Transportation Engineers & Planners

2015 Baseline Saturday Afternoon Peak Hour Traffic Volumes Average-Month Conditions

MASSDOT CRASH RATE WORKSHEETS AND HIGH CRASH LOCATION MAPPING



CITY/TOWN :	Wrentham			COUNT DA	TE:	Jun-19
DISTRICT : 5	UNSIGN	ALIZED	X	] SIGNA	LIZED :	
		~ IN1	TERSECTION	N DATA ~		
MAJOR STREET :	Route 1					
MINOR STREET(S)	Madison Stre	et				
INTERSECTION DIAGRAM (Label Approaches)	North	Medison	koule 1		street	
	r		PEAK HOUF			Total Peak
APPROACH	1	2	3	4	5	Hourly Approach
DIRECTION :	NB	SB	EB	WB		Volume
PEAK HOURLY VOLUMES (PM)	1,351	2,079	100	25		3,555
"K" FACTOR :	0.090	INTERS	ECTION ADT APPROACH		AL DAILY	39,500
TOTAL # OF CRASHES :	31	# OF YEARS	5	CRASHES	GE # OF PER YEAR ( . ) :	6.20
CRASH RATE CALCU	ILATION :	0.43	RATE =	<u>(A*1,</u> (V	000,000) * 365)	
Comments : Below Ma	ssDOT Distric	t 5 crash rate				



CITY/TOWN	Plainville			COUNT DA	TE:	Jun-19
DISTRICT : 5	UNSIGN	ALIZED :	X	] SIGNA	LIZED :	
		~ IN	FERSECTION	I DATA ~	(100100100100100100100100100100100100100	
MAJOR STREET :	Route 1					
MINOR STREET(S)	I-495 NB Rai	nps				
INTERSECTION DIAGRAM (Label Approaches)	North	E-495	Rock	$\lambda$		
			PEAK HOUF	R VOLUMES		TetelDestel
APPROACH :	1	2	3	4	5	Total Peak Hourly
DIRECTION :	NB	SB	EB	WB		Approach Volume
PEAK HOURLY VOLUMES (PM) :	1,346	2,183	351	371		4,251
"K" FACTOR	0.090	INTERSI	ECTION ADT APPROACH		AL DAILY	47,233
TOTAL # OF CRASHES :	12	# OF YEARS :	5	CRASHES	GE # OF PER YEAR ( ):	2.40
CRASH RATE CALCU	LATION :	0.14	RATE =	<u>    (                                </u>	000,000 ) * 365 )	
Comments : Below Mas	SSDOT Distric	t 5 crash rate				



CITY/TOWN :	Plainville			COUNT DA	TE:	Jun-19
DISTRICT : 5	UNSIGN	ALIZED :	X	SIGNA	LIZED	
		~ IN	TERSECTION	I DATA ~		
MAJOR STREET :	Route 1					
MINOR STREET(S):	I-495 SB Rai	mps				
		1				
			- 11			
	North	I-495				
DIAGRAM (Label Approaches)	1494		TT	1/		
			17	V		
			3			
			2			
			PEAK HOUP	R VOLUMES		Total Peak
APPROACH	1	2	3	4	5	Hourly
DIRECTION :	NB	SB	EB	WB		Approach Volume
PEAK HOURLY VOLUMES (PM) :	1,134	1,883	474	442		3,933
"K" FACTOR	0.090		ECTION ADT APPROACH		AL DAILY	43,700
TOTAL # OF CRASHES :	27	# OF YEARS :	5	CRASHES	GE # OF PER YEAR ( .):	5.40
CRASH RATE CALCU	ILATION :	0.34	RATE =	<u>(A * 1,(</u> (V	<u>000,000 )</u> * 365 )	
Comments : Below Mas	ssDOT Distric	t 5 crash rate				



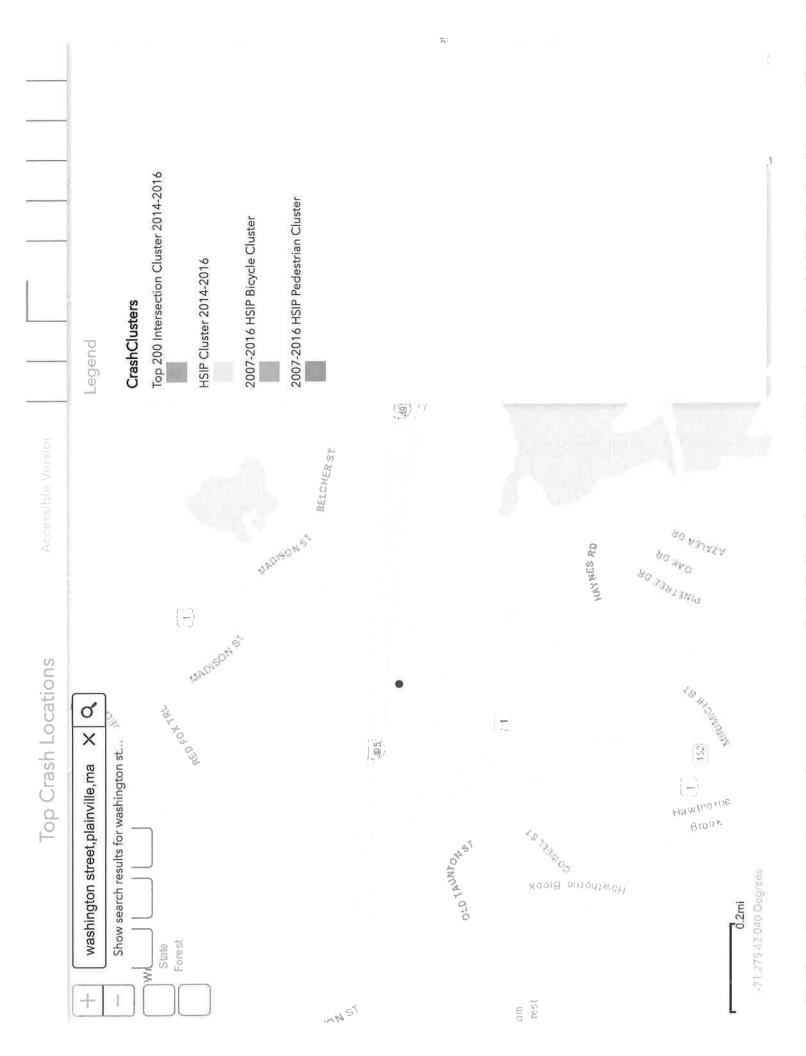
CITY/TOWN :	Plainville			COUNT DA	те:	Jun-19
DISTRICT : 5	UNSIGN	IALIZED		SIGNA	LIZED :	X
		~ IN	TERSECTIO	N DATA ~		
MAJOR STREET :	Route 1					
MINOR STREET(S) :	Plainridge Pa	ark Casino Dr	ive			
	1		1			
INTERSECTION DIAGRAM	North		~	Plainv	ibje Park	-
(Label Approaches)			_	V	VINC	
			Conte			
				R VOLUMES		
APPROACH :	1	2	3	4	5	Total Peak Hourly
DIRECTION :	NB	SB	EB	WB		Approach Volume
PEAK HOURLY VOLUMES (PM) ::	1,013	1,717		235		2,965
"K" FACTOR	0.090			Г ( <b>V</b> ) = ТОТ/ Н VOLUME :	AL DAILY	32,944
TOTAL # OF CRASHES :	18	# OF YEARS :	5	CRASHES	GE # OF PER YEAR ( . ) :	3.60
CRASH RATE CALCU	ILATION :	0.30	RATE =	= <u>(A*1,</u> ( V	000,000) * 365)	
Comments : below Mas	sDOT Distric	t 5 crash rate				



CITY/TOWN	Plainville			COUNT DA	TE:	Jun-19
DISTRICT : 5	UNSIGN	ALIZED		] SIGNA		X
		~ IN	TERSECTIO	N DATA ~		
MAJOR STREET :	Route 1					
MINOR STREET(S) :	Route 152					
INTERSECTION DIAGRAM (Label Approaches)	North	Ronte	kule 1		152	
		1	PEAK HOU	R VOLUMES		Total Peak
APPROACH	1	2	3	4	5	Hourly
DIRECTION :	NB	SB	EB	WB		Approach Volume
PEAK HOURLY VOLUMES (PM) 1	625	1,392	665	658		3,340
"K" FACTOR	0.090	INTERS		「( <b>V</b> )= TOTA H VOLUME:	AL DAILY	37,111
TOTAL # OF CRASHES :	67	# OF YEARS :	5	CRASHES	GE # OF PER YEAR ( ):	13.40
CRASH RATE CALCU	ILATION :	0.99	RATE =	= <u>(A*1,(</u> (V	000,000) * 365)	
Comments : Above Ma	ssDOT Distric	t 5 crash rate	9			



CITY/TOWN	Plainville			COUNT DA	TE:	Jun-19			
DISTRICT : 5	UNSIGN	ALIZED :		SIGNA	LIZED : [	X			
11		~ IN1	TERSECTION	I DATA ~		1000000000			
MAJOR STREET :	Route 152	Route 152							
MINOR STREET(S) :	Route 1 Jug	landle							
INTERSECTION DIAGRAM (Label Approaches)	North 29	vite	Route 1 Siz Judhadle		152				
			PEAK HOUF						
APPROACH :	1	2	3	4	5	Total Peak Hourly			
DIRECTION :	NB	SB	EB	WB		Approach Volume			
PEAK HOURLY VOLUMES (PM) :		243	649	372		1,264			
"K" FACTOR	0.090	INTERS	ECTION ADT APPROACH		AL DAILY	14,044			
TOTAL # OF CRASHES :	4	# OF YEARS :	5	CRASHES	GE # OF PER YEAR ( ):	0.80			
CRASH RATE CALCU	ILATION :	0.16	RATE =	<u>    ( A * 1,0</u> (    V	000,000) * 365 )				
Comments : Below Mas	ssDOT Distric	t 5 crash rate							



CAPACITY ANALYSIS WORKSHEETS

09/16/2019
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Lane Group Lane Configurations							<b>₽</b>		Ť			· ·
	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL
		<del>با</del>	۳.		\$			a a	ተኩ			2
Traffic Volume (vph)	4	1	95	19	1	5	1	69	1272	9	1	5
Future Volume (vph)	4	1	95	19	1	5	1	69	1272	9	1	5
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	10	11	12	16	12	12	12	12	12	12	10
Storage Length (ft)	0		150	0		0		425		0		150
Storage Lanes	0		1	0		0		1		0		1
Taper Length (ft)	25			25				25				25
Satd. Flow (prot)	0	1702	1561	0	2020	0	0	1805	3566	0	0	1685
Flt Permitted		0.814			0.774			0.950				0.950
Satd. Flow (perm)	0	1443	1561	0	1623	0	0	1805	3566	0	0	1685
Right Turn on Red			Yes			Yes				Yes		
Satd. Flow (RTOR)			42		9				1			
Link Speed (mph)		30			30				30			
Link Distance (ft)		717			424				774			
Travel Time (s)		16.3			9.6				17.6			
Peak Hour Factor	0.85	0.85	0.85	0.54	0.54	0.54	0.96	0.96	0.96	0.96	0.95	0.95
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	0%	1%	20%	0%	0%
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	6	112	0	46	0	0	73	1334	0	0	6
Turn Type	Perm	NA	pm+ov	Perm	NA		Prot	Prot	NA		Prot	Prot
Protected Phases		4	5!		8		5!	5	2		1	1
Permitted Phases	4		4	8								
Detector Phase	4	4	5	8	8		5	5	2		1	1
Switch Phase												
Minimum Initial (s)	4.0	4.0	4.0	4.0	4.0		4.0	4.0	4.0		4.0	4.0
Minimum Split (s)	22.0	22.0	11.5	23.0	23.0		11.5	11.5	22.5		11.0	11.0
Total Split (s)	22.0	22.0	25.0	22.0	22.0		25.0	25.0	55.0		13.0	13.0
Total Split (%)	24.4%	24.4%	27.8%	24.4%	24.4%		27.8%	27.8%	61.1%		14.4%	14.4%
Yellow Time (s)	4.0	4.0	4.5	4.0	4.0		4.5	4.5	5.5		4.5	4.5
All-Red Time (s)	3.0	3.0	3.0	3.0	3.0		3.0	3.0	1.0		2.5	2.5
Lost Time Adjust (s)		-3.0	-3.5		-3.0			-3.5	-2.5			-3.0
Total Lost Time (s)		4.0	4.0		4.0			4.0	4.0			4.0
Lead/Lag			Lead				Lead	Lead	Lag		Lead	Lead
Lead-Lag Optimize?			Yes				Yes	Yes	Yes		Yes	Yes
Recall Mode	None	None	None	None	None		None	None	C-Max		None	None
Act Effct Green (s)		10.4	21.9		10.6			12.5	75.4			9.0
Actuated g/C Ratio		0.12	0.24		0.12			0.14	0.84			0.10
v/c Ratio		0.04	0.27		0.23			0.29	0.45			0.04
Control Delay		34.4	16.5		32.7			47.5	4.5			36.8
Queue Delay		0.0	0.0		0.0			0.0	0.0			0.0
Total Delay		34.4	16.5		32.7			47.5	4.5			36.8
LOS		С	В		С			D	А			D
Approach Delay		17.4			32.7				6.7			
Approach LOS		В			С				A			
Queue Length 50th (ft)		3	29		19			44	63			3
Queue Length 95th (ft)		13	58		28			78	368			15
Internal Link Dist (ft)		637			344				694			
Turn Bay Length (ft)			150					425				150

Synchro 8 Report S:\Jobs\6964\Analysis\2019\ex19pm_site.syn

09/16/2019	9
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Lane Group	SBT	SBR
Lane Configurations	<u>†</u> †	7
Traffic Volume (vph)	2068	5
Future Volume (vph)	2068	5
Ideal Flow (vphpl)	1900	1900
Lane Width (ft)	12	10
Storage Length (ft)	12	425
Storage Lanes		1
Taper Length (ft)		
Satd. Flow (prot)	3574	1507
Flt Permitted	20.1	
Satd. Flow (perm)	3574	1507
Right Turn on Red		Yes
Satd. Flow (RTOR)		224
Link Speed (mph)	30	
Link Distance (ft)	566	
Travel Time (s)	12.9	
Peak Hour Factor	0.95	0.95
Heavy Vehicles (%)	1%	0.35
Shared Lane Traffic (%)	1 /0	0 /0
	2177	5
Lane Group Flow (vph)	NA	Perm
Turn Type Protected Phases	NA 6	Felli
	0	6
Permitted Phases	6	6
Detector Phase	0	0
Switch Phase	4.0	4.0
Minimum Initial (s)		<b>4.0</b> 22.5
Minimum Split (s)	22.5	22.5 <b>43.0</b>
Total Split (s)	43.0	<b>43.0</b> 47.8%
Total Split (%)	47.8%	
Yellow Time (s)	5.5	5.5
All-Red Time (s)	1.0	1.0
Lost Time Adjust (s)	-2.5	-2.5
Total Lost Time (s)	4.0	4.0
Lead/Lag	Lag	Lag
Lead-Lag Optimize?	Yes	Yes C Mey
Recall Mode	C-Max	C-Max
Act Effct Green (s)	60.1	60.1
Actuated g/C Ratio	0.67	0.67
v/c Ratio	0.91	0.00
Control Delay	23.5	0.0
Queue Delay	8.9	0.0
Total Delay	32.4	0.0
LOS	С	А
Approach Delay	32.4	
Approach LOS	С	
Queue Length 50th (ft)	589	0
Queue Length 95th (ft)	#895	0
Internal Link Dist (ft)	486	
Turn Bay Length (ft)		425

09/16/2019

	٠	-	7	4	-	*	₹1	1	†	1	L#	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL
Base Capacity (vph)		288	555		331			421	2987			172
Starvation Cap Reductn		0	0		0			0	0			C
Spillback Cap Reductn		0	0		0			0	0			C
Storage Cap Reductn		0	0		0			0	0			C
Reduced v/c Ratio		0.02	0.20		0.14			0.17	0.45			0.03
Intersection Summary		1 de ve	1.00				1.00		3.1	1.1		1221
Area Type: O	ther											
· · · · · · · · · · · · · · · · · · ·	ther											
Cycle Length: 90 Actuated Cycle Length: 90												
Cycle Length: 90 Actuated Cycle Length: 90		VBT and (	6:SBT, S	tart of Yell	low, Masi	ter Interse	ection					
Cycle Length: 90 Actuated Cycle Length: 90 Offset: 0 (0%), Referenced to		VBT and (	6:SBT, S	tart of Yell	low, Masi	ter Interse	ection					
Cycle Length: 90 Actuated Cycle Length: 90 Offset: 0 (0%), Referenced to Natural Cycle: 100	phase 2:N	NBT and (	6:SBT, S	tart of Yell	low, Masi	ter Interse	ection					
Cycle Length: 90 Actuated Cycle Length: 90 Offset: 0 (0%), Referenced to Natural Cycle: 100 Control Type: Actuated-Coord	phase 2:N	NBT and (	6:SBT, S	tart of Yell	low, Masi	ter Interse	ection					
Cycle Length: 90 Actuated Cycle Length: 90 Offset: 0 (0%), Referenced to Natural Cycle: 100 Control Type: Actuated-Coord Maximum v/c Ratio: 0.91	phase 2:N dinated	VBT and (	6:SBT, S		low, Masi		ection					
Cycle Length: 90 Actuated Cycle Length: 90 Offset: 0 (0%), Referenced to Natural Cycle: 100 Control Type: Actuated-Coord Maximum v/c Ratio: 0.91 Intersection Signal Delay: 22.	phase 2:N dinated 3	VBT and (	3:SBT, Si	Int	tersectior							
Cycle Length: 90 Actuated Cycle Length: 90 Offset: 0 (0%), Referenced to Natural Cycle: 100 Control Type: Actuated-Coord Maximum v/c Ratio: 0.91 Intersection Signal Delay: 22. Intersection Capacity Utilizatio	phase 2:N dinated 3	NBT and (	6:SBT, S	Int	tersectior	LOS: C						
Cycle Length: 90 Actuated Cycle Length: 90 Offset: 0 (0%), Referenced to Natural Cycle: 100 Control Type: Actuated-Coord Maximum v/c Ratio: 0.91 Intersection Signal Delay: 22. Intersection Capacity Utilizatio Analysis Period (min) 15	phase 2:N dinated 3 on 77.4%			Int IC	tersectior U Level o	LOS: C						
Cycle Length: 90 Actuated Cycle Length: 90 Offset: 0 (0%), Referenced to Natural Cycle: 100 Control Type: Actuated-Coord Maximum v/c Ratio: 0.91 Intersection Signal Delay: 22.	phase 2:N dinated 3 on 77.4% acceeds cap	pacity, que		Int IC	tersectior U Level o	LOS: C						

<b>4</b> ₀₁	Ø2 (R)	₩ → Ø4
3 s 55 s		22 s
<b>1</b> Ø5	Ø5 (R)	Ø8
5.5	43 s	22 5

09/16/2019
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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL
Lane Configurations		र्भ	۴		4			ž.	<u></u> ተኩ			2
Traffic Volume (vph)	4	1	95	19	1	5	1	69	1272	9	1	5
Future Volume (vph)	4	1	95	19	1	5	1	69	1272	9	1	5
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width	12	10	11	12	16	12	12	12	12	12	12	10
Total Lost time (s)		4.0	4.0		4.0			4.0	4.0			4.0
Lane Util. Factor		1.00	1.00		1.00			1.00	0.95			1.00
Frt		1.00	0.85		0.97			1.00	1.00			1.00
Flt Protected		0.96	1.00		0.96			0.95	1.00			0.95
Satd. Flow (prot)		1702	1561		2020			1805	3566			1685
Flt Permitted		0.81	1.00		0.77			0.95	1.00			0.95
Satd. Flow (perm)		1443	1561		1622			1805	3566			1685
Peak-hour factor, PHF	0.85	0.85	0.85	0.54	0.54	0.54	0.96	0.96	0.96	0.96	0.95	0.95
Adj. Flow (vph)	5	1	112	35	2	9	1	72	1325	9	1	5
RTOR Reduction (vph)	0	0	32	0	8	0	0	0	0	0	0	0
Lane Group Flow (vph)	0	6	80	Ő	38	0	0	73	1334	0	0	6
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	0%	1%	20%	0%	0%
Turn Type	Perm	NA	pm+ov	Perm	NA	010	Prot	Prot	NA		Prot	Prot
Protected Phases	I CIIII	4	5!	1 Unit	8		5!	5	2		1	1
Permitted Phases	4		4	8	-							
Actuated Green, G (s)	т	5.2	14.2	Ū	5.2			9.0	62.9			1.4
Effective Green, g (s)		8.2	21.2		8.2			12.5	65.4			4.4
Actuated g/C Ratio		0.09	0.24		0.09			0.14	0.73			0.05
Clearance Time (s)		7.0	7.5		7.0			7.5	6.5			7.0
Vehicle Extension (s)		3.0	3.0		3.0			3.0	3.0			3.0
		131	367		147			250	2591			82
Lane Grp Cap (vph) v/s Ratio Prot		131	0.03		177			c0.04	c0.37			0.00
		0.00	0.03		c0.02			00.04	00.07			0.00
v/s Ratio Perm		0.00	0.02		0.26			0.29	0.51			0.07
v/c Ratio		37.3	27.7		38.1			34.8	5.4			40.9
Uniform Delay, d1		1.00	1.00		1.00			1.32	0.91			1.00
Progression Factor		0.1	0.3		0.9			0.6	0.7			0.4
Incremental Delay, d2		37.5	28.0		39.0			46.3	5.5			41.2
Delay (s)		57.5 D	20.0 C		00.0 D			-+0.0 D	A			D
Level of Service		28.5	U		39.0			U	7.7			D
Approach Delay (s)		20.0 C			00.0 D				A			
Approach LOS		C			D				~			
Intersection Summary	1 Back	112-	Suc 18	8. 9.1	1	' ju i ku					(1990) 1997	
HCM 2000 Control Delay			19.6	Н	CM 2000	Level of	Service		В			
HCM 2000 Volume to Capacit	ty ratio		0.83									
Actuated Cycle Length (s)			90.0	S	um of los	t time (s)			15.5			
Intersection Capacity Utilization	on		77.4%	10	CU Level	of Service	9		D			
Analysis Period (min)			15									
! Phase conflict between lar	ne groups	2										

! Phase conflict between lane groups.

c Critical Lane Group

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Movement	SBT	SBR		en en reis.	AND AND AND A	
Lana Configurations	<u>††</u>	ř				
Traffic Volume (vph)	2068	5				
Future Volume (vph)	2068	5				
deal Flow (vphpl)	1900	1900				
ane Width	12	10				
otal Lost time (s)	4.0	4.0				
ane Util, Factor	0.95	1.00				
Frt	1.00	0.85				
It Protected	1.00	1.00				
Satd. Flow (prot)	3574	1507				
It Permitted	1.00	1.00				
Satd. Flow (perm)	3574	1507				
eak-hour factor, PHF	0.95	0.95				
dj. Flow (vph)	2177	5				
TOR Reduction (vph)	0	2				
ane Group Flow (vph)	2177	3				
eavy Vehicles (%)	1%	0%				
urn Type	NA	Perm				
rotected Phases	6	1 GIIII				
ermitted Phases	U	6				
ctuated Green, G (s)	54.8	54.8				
ffective Green, g (s)	57.3	57.3				
ctuated g/C Ratio	0.64	0.64				
Clearance Time (s)	6.5	6.5				
ehicle Extension (s)	3.0	3.0				
ane Grp Cap (vph)	2275	959	and the second			
/s Ratio Prot	c0.61	300				
/s Ratio Perm	00.01	0.00				
/c Ratio	0.96	0.00				
	15.2	6.0				
Iniform Delay, d1	1.00	1.00				
rogression Factor	11.2	0.0				
ncremental Delay, d2	26.4	6.0				
Delay (s) .e <b>vel of Service</b>	20.4 C	0.0 A				
	26.4	~				
Approach Delay (s)	20.4 C					
Approach LOS	C					
ntersection Summary						

## 2019 Saturday Afternoon Peak Hour - Average-Month Conditions 9: Route 1 & Madison Street

09/16/2019

Lane GroupEBLLane ConfigurationsTraffic Volume (vph)4Future Volume (vph)4Ideal Flow (vphpl)1900Lane Width (ft)12Storage Length (ft)0Storage Lanes0Taper Length (ft)25Right Turn on Red1Link Speed (mph)1Link Distance (ft)75Heavy Vehicles (%)0%Shared Lane Traffic (%)0Lane Group Flow (vph)0Turn TypePermProtected Phases4Detector Phase4Switch Phase4.0Minimum Initial (s)4.0Minimum Split (s)23.0%Yellow Time (s)4.0All-Red Time (s)3.0Lost Time Adjust (s)3.0Lost Time (s)4.0All-Red Time (s)3.0Lost Time (s)4.0All-Red Time (s)4.0Lost Time (s)4.0Lost Time (s)4.0Cal Lost Time (s)4.0Lost Time (s)4.0Cal Lost Time (s)4.0Lost Time (s)4.0Lost Time (s)4.0Lost Time (s)4.0<	EBT 4 1 1900 10 30 733 16.7 0.75 0% 6 NA 4	EBR 7 32 32 1900 11 150 1 Yes 0.75 0% 43	WBL 6 1900 12 0 0 25 0.75 0%	WBT ↔ 0 0 1900 16 30 424 9.6 0.75 0%	WBR 5 5 1900 12 0 0 Ves	NBL 89 89 1900 12 425 1 25	NBT ↑₽ 969 969 1900 12 30 764	NBR 10 1900 12 0 0 Ves	SBL 3 3 1900 10 150 1 25	SBT ↑↑ 1129 1129 1900 12 30	SBR 8 1900 10 425 1 Yes
Lane ConfigurationsTraffic Volume (vph)4Future Volume (vph)4Ideal Flow (vphpl)1900Lane Width (ft)12Storage Length (ft)0Storage Lanes0Taper Length (ft)25Right Turn on Red1Link Speed (mph)1Link Distance (ft)775Heavy Vehicles (%)0%Shared Lane Traffic (%)0Lane Group Flow (vph)0Turn TypePermProtected Phases4Detector Phase4Switch Phase4.0Minimum Initial (s)4.0Minimum Split (s)23.0%Yellow Time (s)4.0All-Red Time (s)3.0Lost Time Adjust (s)3.0Lost Time Adjust (s)1.0Lead/LagLead/LagLead-Lag Optimize?1900	1 1900 10 30 733 16.7 0.75 0% 6 NA	32 32 1900 11 150 1 Yes 0.75 0%	6 1900 12 0 0 25 0.75	0 0 1900 16 30 424 9.6 0.75	5 1900 12 0 0 Yes	89 89 1900 12 425 1	969 969 1900 12 30	10 1900 12 0 0	3 3 1900 10 150 1	1129 1129 1900 12	8 8 1900 10 425 1
Traffic Volume (vph)4Future Volume (vph)4Ideal Flow (vphpl)1900Lane Width (ft)12Storage Length (ft)0Storage Lanes0Taper Length (ft)25Right Turn on Red1Link Speed (mph)1Link Distance (ft)775Heavy Vehicles (%)0%Shared Lane Traffic (%)0Lane Group Flow (vph)0Turn TypePermProtected Phases4Detector Phase4Switch Phase4Minimum Initial (s)4.0Minimum Split (s)23.0%Yellow Time (s)4.0All-Red Time (s)3.0Lost Time Adjust (s)3.0Lost Time (s)4.0Lead/LagLead-Lag Optimize?	1 1900 10 30 733 16.7 0.75 0% 6 NA	32 1900 11 150 1 Yes 0.75 0%	6 1900 12 0 0 25 0.75	0 1900 16 30 424 9.6 0.75	5 1900 12 0 0 Yes	89 1900 12 425 1	969 1900 12 30	10 1900 12 0 0	3 1900 10 150 1	1129 1900 12	8 1900 10 425 1
Future Volume (vph)4Ideal Flow (vphpl)1900Lane Width (ft)12Storage Length (ft)0Storage Lanes0Taper Length (ft)25Right Turn on RedLink Speed (mph)Link Distance (ft)Travel Time (s)Peak Hour Factor0.75Heavy Vehicles (%)0%Shared Lane Traffic (%)0Lane Group Flow (vph)0Turn TypePermProtected Phases4Detector Phase4Switch Phase4Minimum Initial (s)4.0Minimum Split (s)23.0%Yellow Time (s)4.0All-Red Time (s)3.0Lost Time Adjust (s)5.0Lead/LagLead-Lag Optimize?	1900 10 733 16.7 0.75 0% 6 NA	1900 11 150 1 Yes 0.75 0%	1900 12 0 25 0.75	1900 16 30 424 9.6 0.75	1900 12 0 0 Yes	1900 12 425 1	1900 12 30	1900 12 0 0	1900 10 150 1	1900 12	1900 10 425 1
Ideal Flow (vphpl)1900Lane Width (ft)12Storage Length (ft)0Storage Lanes0Taper Length (ft)25Right Turn on Red1Link Speed (mph)1Link Distance (ft)1Travel Time (s)0Peak Hour Factor0.75Heavy Vehicles (%)0%Shared Lane Traffic (%)0Lane Group Flow (vph)0Turn TypePermProtected Phases4Detector Phase4Switch Phase4.0Minimum Initial (s)4.0Minimum Split (s)23.0%Yellow Time (s)4.0All-Red Time (s)3.0Lost Time Adjust (s)3.0Lost Time (s)LagLead/LagLead-Lag Optimize?	10 30 733 16.7 0.75 0% 6 NA	11 150 1 Yes 0.75 0%	12 0 25 0.75	16 30 424 9.6 0.75	12 0 0 Yes	12 425 1	12 30	12 0 0	10 150 1	12	10 425 1
Lane Width (ft)12Storage Length (ft)0Storage Lanes0Taper Length (ft)25Right Turn on Red1Link Speed (mph)1Link Distance (ft)1Travel Time (s)0Peak Hour Factor0.75Heavy Vehicles (%)0%Shared Lane Traffic (%)0Lane Group Flow (vph)0Turn TypePermProtected Phases4Detector Phase4Switch Phase4.0Minimum Initial (s)4.0Minimum Split (s)23.0%Yellow Time (s)4.0All-Red Time (s)3.0Lost Time Adjust (s)3.0Lost Time Adjust (s)Lead/LagLead/LagLead-Lag Optimize?	10 30 733 16.7 0.75 0% 6 NA	150 1 Yes 0.75 0%	0 0 25 0.75	30 424 9.6 0.75	0 0 Yes	425 1	30	0 0	150 1		425 1
Storage Length (ft)0Storage Lanes0Taper Length (ft)25Right Turn on Red25Link Speed (mph)1Link Distance (ft)1Travel Time (s)0Peak Hour Factor0.75Heavy Vehicles (%)0%Shared Lane Traffic (%)0Lane Group Flow (vph)0Turn TypePermProtected Phases4Detector Phase4Switch Phase3.0Minimum Initial (s)4.0Minimum Split (s)23.0%Yellow Time (s)4.0All-Red Time (s)3.0Lost Time Adjust (s)7otal Lost Time (s)Lead/LagLead-Lag Optimize?	30 733 16.7 0.75 0% 6 NA	150 1 Yes 0.75 0%	0 25 0.75	424 9.6 0.75	0 Yes	1		0	1	30	1
Storage Lanes0Taper Length (ft)25Right Turn on Red25Right Turn on Red25Link Speed (mph)1Link Distance (ft)7Travel Time (s)Peak Hour FactorPeak Hour Factor0.75Heavy Vehicles (%)0%Shared Lane Traffic (%)0Lane Group Flow (vph)0Turn TypePermProtected Phases4Detector Phase4Switch Phase4Minimum Initial (s)4.0Minimum Split (s)23.0Total Split (%)23.0%Yellow Time (s)4.0All-Red Time (s)3.0Lost Time Adjust (s)5.0Lead/LagLead/LagLead-Lag Optimize?1	733 16.7 0.75 0% 6 NA	1 Yes 0.75 0%	25 0.75	424 9.6 0.75	Yes					30	1 Yes
Taper Length (ft)25Right Turn on RedLink Speed (mph)Link Distance (ft)Travel Time (s)Peak Hour Factor0.75Heavy Vehicles (%)0%Shared Lane Traffic (%)Lane Group Flow (vph)0Turn TypePermProtected Phases4Detector Phase4Switch Phase23.0Total Split (s)23.0%Yellow Time (s)4.0All-Red Time (s)3.0Lost Time Adjust (s)5.0Total Lost Time (s)2.0Lead/Lag2.0Lead-Lag Optimize?2.0	733 16.7 0.75 0% 6 NA	0.75 0%	25 0.75	424 9.6 0.75		25		Yes	25	30	Yes
Right Turn on Red Link Speed (mph) Link Distance (ft) Travel Time (s) Peak Hour Factor 0.75 Heavy Vehicles (%) 0% Shared Lane Traffic (%) Lane Group Flow (vph) 0 Turn Type Perm Protected Phases Permitted Phases 4 Detector Phase 4 Switch Phase Minimum Initial (s) 4.0 Minimum Split (s) 23.0 Total Split (s) 23.0 Total Split (%) 23.0% Yellow Time (s) 4.0 All-Red Time (s) 3.0 Lost Time Adjust (s) Total Lost Time (s) Lead/Lag Lead-Lag Optimize?	733 16.7 0.75 0% 6 NA	0.75 0%	0.75	424 9.6 0.75				Yes		30	Yes
Link Speed (mph) Link Distance (ft) Travel Time (s) Peak Hour Factor 0.75 Heavy Vehicles (%) 0% Shared Lane Traffic (%) Lane Group Flow (vph) 0 Turn Type Perm Protected Phases Permitted Phases 4 Detector Phase 4 Switch Phase 4 Switch Phase 4 Switch Phase 4 Minimum Initial (s) 4.0 Minimum Split (s) 23.0 Total Split (s) 23.0 Total Split (%) 23.0% Yellow Time (s) 4.0 All-Red Time (s) 3.0 Lost Time Adjust (s) Total Lost Time (s) Lead/Lag Lead-Lag Optimize?	733 16.7 0.75 0% 6 NA	0.75 0%		424 9.6 0.75						30	
Link Distance (ft) Travel Time (s) Peak Hour Factor 0.75 Heavy Vehicles (%) 0% Shared Lane Traffic (%) Lane Group Flow (vph) 0 Turn Type Perm Protected Phases Permitted Phases 4 Detector Phase 4 Switch Phase Minimum Initial (s) 4.0 Minimum Split (s) 23.0 Total Split (s) 23.0 Total Split (%) 23.0% Yellow Time (s) 4.0 All-Red Time (s) 3.0 Lost Time Adjust (s) Total Lost Time (s) Lead/Lag Lead-Lag Optimize?	733 16.7 0.75 0% 6 NA	0%		424 9.6 0.75	0.75						
Travel Time (s)Peak Hour Factor0.75Heavy Vehicles (%)0%Shared Lane Traffic (%)Lane Group Flow (vph)0Turn TypePermProtected Phases4Detector Phase4Switch Phase4.0Minimum Initial (s)4.0Minimum Split (s)23.0Total Split (%)23.0%Yellow Time (s)4.0All-Red Time (s)3.0Lost Time Adjust (s)5.0Total Lost Time (s)2.0Lead/Lag2.0Lead-Lag Optimize?1.0	16.7 0.75 0% 6 NA	0%		9.6 0.75						516	
Peak Hour Factor0.75Heavy Vehicles (%)0%Shared Lane Traffic (%)Lane Group Flow (vph)0Turn TypePermProtected Phases4Detector Phase4Switch Phase4Minimum Initial (s)4.0Minimum Split (s)23.0Total Split (%)23.0%Yellow Time (s)4.0All-Red Time (s)3.0Lost Time Adjust (s)5.0Total Lost Time (s)2.0Lead/Lag2.0Lead-Lag Optimize?1.0	0.75 0% 6 NA	0%		0.75	0 75		17.4			11.7	
Heavy Vehicles (%)0%Shared Lane Traffic (%)Lane Group Flow (vph)0Turn TypePermProtected Phases4Permitted Phases4Detector Phase4Switch Phase4Minimum Initial (s)4.0Minimum Split (s)23.0Total Split (s)23.0%Yellow Time (s)4.0All-Red Time (s)3.0Lost Time Adjust (s)5.0Total Lost Time (s)Lead/LagLead-Lag Optimize?10%	0% 6 NA	0%			0.75	0.93	0.93	0.93	0.90	0.90	0.90
Shared Lane Traffic (%)Lane Group Flow (vph)0Turn TypePermProtected Phases4Permitted Phases4Detector Phase4Switch Phase4Minimum Initial (s)4.0Minimum Split (s)23.0Total Split (s)23.0%Yellow Time (s)4.0All-Red Time (s)3.0Lost Time Adjust (s)5.0Total Lost Time (s)2.0Lead/Lag2.0	6 NA		070		0%	0%	1%	0%	0%	1%	0%
Lane Group Flow (vph)0Turn TypePermProtected Phases4Permitted Phases4Detector Phase4Switch Phase4Minimum Initial (s)4.0Minimum Split (s)23.0Total Split (s)23.0%Yellow Time (s)4.0All-Red Time (s)3.0Lost Time Adjust (s)Total Lost Time (s)Lead/LagLead/LagLead-Lag Optimize?100	NA	43		070	070	070	170	070	070	170	070
Turn TypePermProtected PhasesPermitted PhasesPermitted PhasesADetector PhaseMinimum Initial (s)Minimum Split (s)23.0Total Split (s)23.0Total Split (s)23.0%Yellow Time (s)All-Red Time (s)Lost Time Adjust (s)Total Lost Time (s)Lead/LagLead-Lag Optimize?	NA	43	0	15	0	96	1053	0	3	1254	9
Protected Phases Permitted Phases 4 Detector Phase 4 Switch Phase Minimum Initial (s) 4.0 Minimum Split (s) 23.0 Total Split (s) 23.0 Total Split (%) 23.0% Yellow Time (s) 4.0 All-Red Time (s) 3.0 Lost Time Adjust (s) Total Lost Time (s) Lead/Lag Lead-Lag Optimize?					0		NA	0	Prot	NA	Perm
Permitted Phases4Detector Phase4Switch Phase4Minimum Initial (s)4.0Minimum Split (s)23.0Total Split (s)23.0Total Split (s)23.0%Yellow Time (s)4.0All-Red Time (s)3.0Lost Time Adjust (s)Total Lost Time (s)Lead/LagLead/LagLead-Lag Optimize?10	4	pm+ov	Perm	NA		Prot				6	Feim
Detector Phase4Switch PhaseMinimum Initial (s)4.0Minimum Split (s)23.0Total Split (s)23.0Total Split (%)23.0%Yellow Time (s)4.0All-Red Time (s)3.0Lost Time Adjust (s)Total Lost Time (s)Lead/LagLead/LagLead-Lag Optimize?100		5		8		5	2		1	0	C
Switch PhaseMinimum Initial (s)4.0Minimum Split (s)23.0Total Split (s)23.0Total Split (%)23.0%Yellow Time (s)4.0All-Red Time (s)3.0Lost Time Adjust (s)Total Lost Time (s)Lead/LagLead/LagLead-Lag Optimize?		4	8	0		-	0			0	6
Minimum Initial (s)4.0Minimum Split (s)23.0Total Split (s)23.0%Total Split (%)23.0%Yellow Time (s)4.0All-Red Time (s)3.0Lost Time Adjust (s)Total Lost Time (s)Lead/LagLead/LagLead-Lag Optimize?	4	5	8	8		5	2		1	6	6
Minimum Split (s)23.0Total Split (s)23.0Total Split (%)23.0%Yellow Time (s)4.0All-Red Time (s)3.0Lost Time Adjust (s)Total Lost Time (s)Lead/LagLead/LagLead-Lag Optimize?											
Total Split (s)23.0Total Split (%)23.0%Yellow Time (s)4.0All-Red Time (s)3.0Lost Time Adjust (s)Total Lost Time (s)Lead/LagLead/LagLead-Lag Optimize?	4.0	4.0	4.0	4.0		4.0	4.0		4.0	4.0	4.0
Total Split (%)23.0%Yellow Time (s)4.0All-Red Time (s)3.0Lost Time Adjust (s)Total Lost Time (s)Lead/LagLead-Lag Optimize?	23.0	11.5	23.0	23.0		11.5	22.5		11.0	22.5	22.5
Yellow Time (s)4.0All-Red Time (s)3.0Lost Time Adjust (s)	23.0	17.0	23.0	23.0		17.0	66.0		11.0	60.0	60.0
All-Red Time (s)3.0Lost Time Adjust (s)Total Lost Time (s)Lead/LagLead-Lag Optimize?	23.0%	17.0%	23.0%	23.0%		17.0%	66.0%		11.0%	60.0%	60.0%
Lost Time Adjust (s) Total Lost Time (s) Lead/Lag Lead-Lag Optimize?	4.0	4.5	4.0	4.0		4.5	5.5		4.5	5.5	5.5
Total Lost Time (s) Lead/Lag Lead-Lag Optimize?	3.0	3.0	3.0	3.0		3.0	1.0		2.5	1.0	1.0
Total Lost Time (s) Lead/Lag Lead-Lag Optimize?	-4.0	-3.5		-3.0		-3.5	-2.5		-3.0	-2.5	-2.5
Lead/Lag Lead-Lag Optimize?	3.0	4.0		4.0		4.0	4.0		4.0	4.0	4.0
Lead-Lag Optimize?		Lead				Lead	Lag		Lead	Lag	Lag
		Yes				Yes	Yes		Yes	Yes	Yes
	None	None	None	None		None	C-Max		None	C-Max	C-Max
v/c Ratio	0.05	0.13		0.06		0.38	0.33		0.02	0.46	0.01
Control Delay	41.2	8.5		0.5		48.5	1.9		41.7	7.7	0.0
Queue Delay	0.0	0.0		0.0		0.0	0.0		0.0	0.4	0.0
Total Delay	41.2	8.5		0.5		48.5	1.9		41.7	8.1	0.0
Queue Length 50th (ft)	4	0		0		59	0		2	113	0
Queue Length 95th (ft)	14	17		Ő		113	105		11	302	0
Internal Link Dist (ft)	653	17		344		110	684		, ,	436	·
. ,	000	150		044		425	004		150	100	425
Turn Bay Length (ft)	266	350		411		267	3220		147	2718	1175
Base Capacity (vph)							0		0	851	0
Starvation Cap Reductn	0	0		0		0	0		0	001	0
Spillback Cap Reductn	0	0		0		0			-		0
Storage Cap Reductn	0	0		0		0	0		0	0 67	
Reduced v/c Ratio	0.02	0,12		0.04		0.36	0.33		0.02	0.67	0.01
Intersection Summary Area Type: Other		1.14-1	Sec. 1	1.11				1.1			

Actuated Cycle Length: 100

Plainridge Park Casino BG

### 2019 Saturday Afternoon Peak Hour - Average-Month Conditions 9: Route 1 & Madison Street

Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBT, Start of Yellow, Master Intersection Natural Cycle: 65 Control Type: Actuated-Coordinated

#### Splits and Phases: 9: Route 1 & Madison Street

Ø1	1 02 (R)	<b>→</b> Ø4
11 5	66 s	23 s
🐴 ø5	Ø6 (R)	Ø8
17 s	60.s	23 s

# 2019 Saturday Afternoon Peak Hour - Average-Month Conditions 9: Route 1 & Madison Street

	۶	->	7	*	-	*	1	1	1	1	Ļ	1
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		<del>ب</del> ا	1 de la companya de l		¢‡>		ሻ	<u></u> †ጉ		٦	<u>††</u>	7
Traffic Volume (vph)	4	1	32	6	0	5	89	969	10	3	1129	8
Future Volume (vph)	4	1	32	6	0	5	89	969	10	3	1129	8
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width	12	10	11	12	16	12	12	12	12	10	12	10
Total Lost time (s)		3.0	4.0		4.0		4.0	4.0		4.0	4.0	4.0
Lane Util. Factor		1.00	1.00		1.00		1.00	0.95		1.00	0.95	1.00
Frt		1.00	0.85		0.94		1.00	1.00		1.00	1.00	0.85
Flt Protected		0.96	1.00		0.97		0.95	1.00		0.95	1.00	1.00
Satd. Flow (prot)		1702	1561		1965		1805	3569		1685	3574	1507
Flt Permitted		0.75	1.00		0.83		0.95	1.00		0.95	1.00	1.00
Satd. Flow (perm)		1332	1561		1675		1805	3569		1685	3574	1507
Peak-hour factor, PHF	0.75	0.75	0.75	0.75	0.75	0.75	0.93	0.93	0.93	0.90	0.90	0.90
Adj. Flow (vph)	5	1	43	8	0	7	96	1042	11	3	1254	9
RTOR Reduction (vph)	0	0	35	0	14	0	0	0	0	0	0	3
Lane Group Flow (vph)	0	6	8	0	1	0	96	1053	0	3	1254	6
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	1%	0%	0%	1%	0%
Turn Type	Perm	NA	pm+ov	Perm	NA		Prot	NA		Prot	NA	Perm
Protected Phases		4	5		8		5	2		1	6	
Permitted Phases	4		4	8								6
Actuated Green, G (s)		2.7	12.0		2.7		9.3	75.5		1.3	67.0	67.0
Effective Green, g (s)		6.7	19.0		5.7		12.8	78.0		4.3	69.5	69.5
Actuated g/C Ratio		0.07	0.19		0.06		0.13	0.78		0.04	0.70	0.70
Clearance Time (s)		7.0	7.5		7.0		7.5	6.5		7.0	6.5	6.5
Vehicle Extension (s)		3.0	3.0		3.0		3.0	3.0		3.0	3.0	3.0
Lane Grp Cap (vph)	17	89	296		95		231	2783		72	2483	1047
v/s Ratio Prot			0.00				c0.05	0.29		0.00	c0.35	
v/s Ratio Perm		c0.00	0.00		0.00							0.00
v/c Ratio		0.07	0.03		0.01		0.42	0.38		0.04	0.51	0.01
Uniform Delay, d1		43.7	33.0		44.5		40.2	3.4		45.9	7.2	4.7
Progression Factor		1.00	1.00		1.00		1.16	0.68		1.00	1.00	1.00
Incremental Delay, d2		0.3	0.0		0.0		1.2	0.4		0.2	0.7	0.0
Delay (s)		44.0	33.0		44.5		47.8	2.7		46.1	7.9	4.7
Level of Service		D	С		D		D	A		D	A	A
Approach Delay (s)		34.4			44.5			6.5			8.0	
Approach LOS		С			D			А			А	
Intersection Summary			Sec. 1						2. n B	. U.		1.96
HCM 2000 Control Delay			8.0	Н	CM 2000	Level of S	Service		А			
HCM 2000 Volume to Capac	ity ratio		0.46									
Actuated Cycle Length (s)			100.0		um of losi				12.0			
Intersection Capacity Utilizati Analysis Period (min)	ion		52.2% 15	IC	U Level o	of Service			А			

c Critical Lane Group

# 2019 Weekday Evening Peak Hour - Average-Month Conditions 33: Route 1 & I-495 NB Off_Ramp

09/16/2019

	*	*	1	1	5	Ļ	
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT	Ø6
Lane Configurations		77	<u>†</u> †			<u>ት</u> ት	
Traffic Volume (vph)	0	351	1000	0	0	1512	
Future Volume (vph)	0	351	1000	0	0	1512	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Satd. Flow (prot)	0	2787	3539	0	0	3539	
Flt Permitted							
Satd. Flow (perm)	0	2787	3539	0	0	3539	
Right Turn on Red		Yes		Yes			
Satd. Flow (RTOR)		182					
Link Speed (mph)	30		30			30	
Link Distance (ft)	484		529			774	
Travel Time (s)	11.0		12.0			17.6	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	
Shared Lane Traffic (%)							
Lane Group Flow (vph)	0	382	1087	0	0	1643	
Turn Type		Prot	NA			NA	
Protected Phases		3	2			36	6
Permitted Phases							
Detector Phase		3	2			36	
Switch Phase							
Minimum Initial (s)		4.0	4.0				4.0
Minimum Split (s)		9.0	22.5				20.0
Total Split (s)		31.0	59.0				59.0
Total Split (%)		34.4%	65.6%				66%
Yellow Time (s)		3.5	5.5				3.5
All-Red Time (s)		1.5	1.0				0.5
Lost Time Adjust (s)		-1.0	-2.5				
Total Lost Time (s)		4.0	4.0				
Lead/Lag							
Lead-Lag Optimize?							
Recall Mode		None	C-Max				C-Max
Act Effct Green (s)		26.1	55.9			90.0	
Actuated g/C Ratio		0.29	0.62			1.00	
v/c Ratio		0.41	0.49			0.46	
Control Delay		14.2	10.5			0.2	
Queue Delay		0.0	0.4			0.0	
Total Delay		14.2	10.8			0.2	
LOS		B	B			A	
Approach Delay	14.2	U	10.8			0.2	
Approach LOS	B		B			A	
Queue Length 50th (ft)	D	48	166			0	
Queue Length 95th (ft)		90	214			m0	
Internal Link Dist (ft)	404	30	449			694	
Turn Bay Length (ft)	404		773			004	
		963	2198			3536	
Base Capacity (vph)		903	536			0	
Starvation Cap Reductn		0	0			0	
Spillback Cap Reductn		0	0			0	
Storage Cap Reductn Reduced v/c Ratio		0.40	0.65			0.46	
		0.40	0.00			0.40	

## 2019 Weekday Evening Peak Hour - Average-Month Conditions 33: Route 1 & I-495 NB Off_Ramp

09/1	6/2019	
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Intersection Summary	
Area Type: Other	
Cycle Length: 90	
Actuated Cycle Length: 90	
Offset: 69 (77%), Referenced to phase 2:NBT a	nd 6:SBT, Start of Yellow
Natural Cycle: 40	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 0.49	
Intersection Signal Delay: 5.6	Intersection LOS: A
Intersection Capacity Utilization 46.6%	ICU Level of Service A
Analysis Period (min) 15	
m Volume for 95th percentile queue is metere	d by upstream signal.

#### Splits and Phases: 33: Route 1 & I-495 NB Off_Ramp

1 Ø2 (R)	ų	↓ Ø3
59 s	에면, 위험 지수는	31 s
Ø6 (R)	W.	
59 s	Y RG. BUILD AL	

## 2019 Weekday Evening Peak Hour - Average-Month Conditions 33: Route 1 & I-495 NB Off_Ramp

09/16/2019

	*	*	†	1	1	Ļ	
Movement	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations		77	<u>†</u> †			<u>††</u>	
Traffic Volume (vph)	0	351	1000	0	0	1512	
Future Volume (vph)	0	351	1000	0	0	1512	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Total Lost time (s)		4.0	4.0			5.0	
Lane Util. Factor		0.88	0.95			0.95	
Frt		0.85	1.00			1.00	
Flt Protected		1.00	1.00			1.00	
Satd. Flow (prot)		2787	3539			3539	
Flt Permitted		1.00	1.00			1.00	
Satd. Flow (perm)		2787	3539			3539	
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	
Adj. Flow (vph)	0	382	1087	0	0	1643	
RTOR Reduction (vph)	0	129	0	0	0	0	
Lane Group Flow (vph)	0	253	1087	0	0	1643	
Turn Type		Prot	NA			NA	
Protected Phases		3	2			36	
Permitted Phases		0	2			00	
Actuated Green, G (s)		25.1	53.4			90.0	
Effective Green, g (s)		26.1	55.9			86.0	
Actuated g/C Ratio		0.29	0.62			0.96	
Clearance Time (s)		5.0	6.5			0.00	
Vehicle Extension (s)		3.0	3.0				
		808	2198			3381	
Lane Grp Cap (vph) v/s Ratio Prot		0.09	0.31			c0.46	
v/s Ratio Perm		0.09	0.51			00.40	
v/c Ratio		0.31	0.49			0.49	
Uniform Delay, d1		24.9	9.3			0.40	
		1.00	1.00			1.00	
Progression Factor		0.2	0.8			0.1	
Incremental Delay, d2		25.2	10.1			0.1	
Delay (s)		25.2 C	B			0.2 A	
Level of Service	25.2	C	10.1			0.2	
Approach Delay (s)	25.2 C		B			0.2 A	
Approach LOS	C		D			A	
Intersection Summary	13.00		in the				
HCM 2000 Control Delay			6.7	H	CM 2000	Level of Servi	ce A
HCM 2000 Volume to Capacit	y ratio		0.52				
Actuated Cycle Length (s)	-		90.0	Sum of lost time (s)		t time (s)	9.0
Intersection Capacity Utilizatio	n		46.6%			of Service	A
Analysis Period (min)			15				
c Critical Lane Group							

## 2019 Saturday Afternoon Peak Hour - Average-Month Conditions 33: Route 1 & I-495 NB Orff-Ramp

09/16/2019

	*	×	†	1	1	Ļ	
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT	Ø6
Lane Configurations		77	<u>†</u> †			<b>^</b>	
Traffic Volume (vph)	0	253	815	0	0	795	
Future Volume (vph)	0	253	815	0	0	795	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Right Turn on Red		Yes		Yes			
Link Speed (mph)	30		30			30	
Link Distance (ft)	353		664			764	
Travel Time (s)	8.0		15.1			17.4	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	
Shared Lane Traffic (%)							
Lane Group Flow (vph)	0	275	886	0	0	864	
Turn Type		Prot	NA			NA	
Protected Phases		3	2			36	6
Permitted Phases							
Detector Phase		3	2			36	
Switch Phase							
Minimum Initial (s)		4.0	4.0				4.0
Minimum Split (s)		9.0	22.5				20.0
Total Split (s)		40.0	60.0				60.0
Total Split (%)		40.0%	60.0%				60%
Yellow Time (s)		3.5	5.5				3.5
All-Red Time (s)		1.5	1.0				0.5
Lost Time Adjust (s)		-1.0	-1.5				
Total Lost Time (s)		4.0	5.0				
Lead/Lag							
Lead-Lag Optimize?							
Recall Mode		None	C-Max				C-Max
v/c Ratio		0.44	0.33			0.24	
Control Delay		9.8	5.0			0.1	
Queue Delay		0.0	0.0			0.0	
Total Delay		9.8	5.0			0.1	
Queue Length 50th (ft)		14	74			0	
Queue Length 95th (ft)		48	151			0	
Internal Link Dist (ft)	273		584			684	
Turn Bay Length (ft)							
Base Capacity (vph)		1149	2664			3539	
Starvation Cap Reductn		0	0			0	
Spillback Cap Reductn		0	0			0	
Storage Cap Reductn		0	0			0	
Reduced v/c Ratio		0.24	0.33			0.24	
Intersection Summary			- 1916 I	a 'Vine"	6-1 23		
Area Type: C	Other						
Cycle Length: 100							
Actuated Cycle Length: 100							
Offset: 96 (96%), Referenced	to phase	2:NBT a	nd 6:SBT,	Start of N	ellow		
Natural Cycle: 40							
Control Type: Actuated-Coor	dinated						

## 2019 Saturday Afternoon Peak Hour - Average-Month Conditions 33: Route 1 & I-495 NB Orff-Ramp

Splits and Phases: 33: Route 1 & I-495 NB Orff-Ramp	
<b>1</b> Ø2 (R)	<b>↓</b> Ø3
60's	40 s
Ø6 (R)	
60 s	

## 2019 Saturday Afternoon Peak Hour - Average-Month Conditions 33: Route 1 & I-495 NB Orff-Ramp

09/16/2019

	4	*	1	r	1	Ļ	
Movement	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations		77	<u>†</u> †			<b>††</b>	
Traffic Volume (vph)	0	253	815	0	0	795	
Future Volume (vph)	0	253	815	0	0	795	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Total Lost time (s)		4.0	5.0			5.0	
Lane Util. Factor		0.88	0.95			0.95	
Frt		0.85	1.00			1.00	
Flt Protected		1.00	1.00			1.00	
Satd. Flow (prot)		2787	3539			3539	
Flt Permitted		1.00	1.00			1.00	
Satd. Flow (perm)		2787	3539			3539	
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	
Adj. Flow (vph)	0.52	275	886	0.52	0.02	864	
RTOR Reduction (vph)	0	193	0	0	Ő	0	
Lane Group Flow (vph)	0	82	886	0	0	864	
	0		NA	0	0	NA	
Turn Type		Prot				3.6	
Protected Phases		3	2			30	
Permitted Phases		447	72.0			100.0	
Actuated Green, G (s)		14.7	73.8			96.0	
Effective Green, g (s)		15.7	75.3				
Actuated g/C Ratio		0.16	0.75			0.96	
Clearance Time (s)		5.0	6.5				
Vehicle Extension (s)		3.0	3.0		_	0007	
Lane Grp Cap (vph)		437	2664			3397	
v/s Ratio Prot		0.03	c0.25			c0.24	
v/s Ratio Perm							
v/c Ratio		0.19	0.33			0.25	
Uniform Delay, d1		36.6	4.1			0.1	
Progression Factor		1.00	1.00			1.00	
Incremental Delay, d2		0.2	0.3			0.0	
Delay (s)		36.8	4.4			0.1	
Level of Service		D	A			A	
Approach Delay (s)	36.8		4.4			0.1	
Approach LOS	D		А			А	
Intersection Summary	24	1.192	1 <u></u>			5 <u>5 5 8 1</u> 2	
HCM 2000 Control Delay			7.0	H	CM 2000	Level of Servic	ce A
HCM 2000 Volume to Capac	ity ratio		0.33				
Actuated Cycle Length (s)	-		100.0	Sum of lost time (s)		t time (s)	10.0
Intersection Capacity Utilizati	on		38.9%			of Service	А
Analysis Period (min)			15				
c Critical Lane Group							

## 2019 Weekday Evening Peak Hour - Average-Month Conditions 12: Route 1 & I-495 SB Off-Ramp

08/08/2019

	٨	7	1	Ť	Ļ	1
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations		77		<u>†</u> †	<u>^</u>	1
Traffic Volume (vph)	0	442	0	0	1275	608
Future Volume (vph)	0	442	0	0	1275	608
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
	0	0	0	1000	1000	400
Storage Length (ft)	0	2	0			400
Storage Lanes		Z				
Taper Length (ft)	25	0044	25	2520	2574	1500
Satd. Flow (prot)	0	2814	0	3539	3574	1599
FIt Permitted						1500
Satd. Flow (perm)	0	2814	0	3539	3574	1599
Right Turn on Red		Yes				Yes
Satd. Flow (RTOR)		112				633
Link Speed (mph)	30			30	30	
Link Distance (ft)	773			1072	830	
Travel Time (s)	17.6			24.4	18.9	
Peak Hour Factor	0.83	0.83	0.92	0.92	0.96	0.96
	0%	1%	0%	2%	1%	1%
Heavy Vehicles (%)	0 70	1 70	0 70	2 /0	170	170
Shared Lane Traffic (%)	0	500	0	0	1000	622
Lane Group Flow (vph)	0	533	0	0	1328	633
Turn Type		Prot			NA	Free
Protected Phases		4		2	6	
Permitted Phases		4				Free
Detector Phase		4		2	6	
Switch Phase						
Minimum Initial (s)		4.0		4.0	4.0	
Minimum Split (s)		22.0		22.0	22.0	
Total Split (s)		26.0		54.0	54.0	
		32.5%		67.5%	67.5%	
Total Split (%)		32.5% 4.0		4.0	4.0	
Yellow Time (s)						
All-Red Time (s)		2.0		2.0	2.0	
Lost Time Adjust (s)		-2.0		-2.0	-2.0	
Total Lost Time (s)		4.0		4.0	4.0	
Lead/Lag						
Lead-Lag Optimize?						
Recall Mode		None		C-Max	C-Max	
Act Effct Green (s)		18.9			53.1	80.0
Actuated g/C Ratio		0.24			0.66	1.00
v/c Ratio		0.71			0.56	0.40
Control Delay		27.2			8.8	0.7
		0.0			0.0	0.0
Queue Delay						
Total Delay		27.2			8.8	0.7
LOS		С			А	А
Approach Delay	27.2				6.2	
Approach LOS	С				А	
Queue Length 50th (ft)		108			166	0
Queue Length 95th (ft)		141			242	0
Internal Link Dist (ft)	693			992	750	
Turn Bay Length (ft)						400
Base Capacity (vph)		855			2372	1599
Dase Dapacity (vpi)		000			2012	.000

Plainridge Park Casino BG Synchro 8 Report S:\Jobs\6964\Analysis\2019\ex19pm_site.syn

# 2019 Weekday Evening Peak Hour - Average-Month Conditions 12: Route 1 & I-495 SB Off-Ramp

08/08/2019
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	×	$\mathbf{r}$	1	t	Ļ	4	
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	
Starvation Cap Reductn		0			0	0	
Spillback Cap Reductn		0			0	0	
Storage Cap Reductn		0			0	0	
Reduced v/c Ratio		0.62			0.56	0.40	
Intersection Summary			* <u>1</u> 114	225	1.00	Y 12 ¹ 182 S	en and the reason of the section of the
Area Type:	Other						
Cycle Length: 80							
Actuated Cycle Length: 80							
Offset: 78 (98%), Reference	ed to phase	2:NBT an	d 6:SBT,	Start of	Yellow		
Natural Cycle: 50							
Control Type: Actuated-Coo	ordinated						
Maximum v/c Ratio: 0.71							
Intersection Signal Delay: 10.7 In					tersection		
Intersection Capacity Utilization 57.4%			ICU Level of Service B			of Service E	3
Analysis Period (min) 15							
o 10 J DI 40 D			D2				
Splits and Phases: 12: R	oute 1 & I-4	95 SB Off	-катр				
DØ2 (R)						ų.	<b>→</b> Ø4

26 s

54 s ↓ Ø6 (R)

## 2019 Weekday Evening Peak Hour - Average-Month Conditions 12: Route 1 & I-495 SB Off-Ramp

08/08/2019

	٨	$\mathbf{r}$	-	†	Ļ	4		
Movement	EBL	EBR	NBL	NBT	SBT	SBR		
Lane Configurations		77		<u>††</u>	<u>†</u> †	7		
Traffic Volume (vph)	0	442	0	0	1275	608		
Future Volume (vph)	0	442	0	0	1275	608		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900		
Total Lost time (s)		4.0			4.0	2.0		
Lane Util. Factor		0.88			0.95	1.00		
Frt		0.85			1.00	0.85		
FIt Protected		1.00			1.00	1.00		
Satd. Flow (prot)		2814			3574	1599		
FIt Permitted		1.00			1.00	1.00		
Satd. Flow (perm)		2814			3574	1599		
Peak-hour factor, PHF	0.83	0.83	0.92	0.92	0.96	0.96		
Adj. Flow (vph)	0	533	0	0	1328	633		
RTOR Reduction (vph)	0	86	0	0	0	0		
Lane Group Flow (vph)	0	447	0	0	1328	633		
Heavy Vehicles (%)	0%	1%	0%	2%	1%	1%		
Turn Type		Prot			NA	Free		
Protected Phases		4		2	6			
Permitted Phases		4		_		Free		
Actuated Green, G (s)		16.9			51.1	80.0		
Effective Green, g (s)		18.9			53.1	80.0		
Actuated g/C Ratio		0.24			0.66	1.00		
Clearance Time (s)		6.0			6.0			
Vehicle Extension (s)		3.0			3.0			
Lane Grp Cap (vph)		664			2372	1599		
v/s Ratio Prot		c0.16			c0.37	1000		
v/s Ratio Perm		00.10			00.01	0.40		
v/c Ratio		0.67			0.56	0.40		
Uniform Delay, d1		27.8			7.2	0.0		
Progression Factor		1.00			1.00	1.00		
Incremental Delay, d2		2.7			1.0	0.7		
Delay (s)		30.5			8.2	0.7		
Level of Service		C			A	A		
Approach Delay (s)	30.5	0		0.0	5.8			
Approach LOS	C			A	A			
	Ŭ							
Intersection Summary	un tell	11126			0110000			
HCM 2000 Control Delay			11.0	H	CM 2000	Level of Service	В	
HCM 2000 Volume to Capac	city ratio		0.59	-			0.0	
Actuated Cycle Length (s)			80.0		um of lost	, ,	8.0	
Intersection Capacity Utilizati	ion		57.4%	IC	CU Level o	of Service	В	
Analysis Period (min)			15					

## 2019 Saturday Afternoon Peak Hour - Average-Month Conditions 12: Route 1 & I-495 SB Off-Ramp

08/08/2019

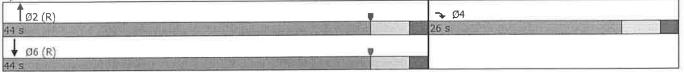
	۶	7	1	†	Ļ	1
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
_ane Configurations		77		<u>†</u> †	<u>†</u> †	1
Traffic Volume (vph)	0	370	0	0	887	306
Future Volume (vph)	0	370	0	0	887	306
	1900	1900	1900	1900	1900	1900
deal Flow (vphpl)	1900	0	0	1300	1500	500
Storage Length (ft)	-	2	0			1
Storage Lanes	0	2				
Taper Length (ft)	25		25			Vee
Right Turn on Red		Yes			0.0	Yes
Link Speed (mph)	30			30	30	
Link Distance (ft)	540			1061	1010	
Travel Time (s)	12.3			24.1	23.0	
Peak Hour Factor	0.90	0.90	0.92	0.92	0.94	0.94
Heavy Vehicles (%)	0%	0%	0%	0%	1%	0%
Shared Lane Traffic (%)						
_ane Group Flow (vph)	0	411	0	0	944	326
Turn Type	U	Prot	0	0	NA	Free
Protected Phases		4		2	6	1100
				Z	U	Free
Permitted Phases		4		0	G	FIEE
Detector Phase		4		2	6	
Switch Phase					1.0	
Minimum Initial (s)		4.0		4.0	4.0	
Minimum Split (s)		24.0		22.0	22.0	
Total Split (s)		26.0		44.0	44.0	
Total Split (%)		37.1%		62.9%	62.9%	
Yellow Time (s)		4.0		4.0	4.0	
All-Red Time (s)		2.0		2.0	2.0	
Lost Time Adjust (s)		-2.0		-2.0	-2.0	
Total Lost Time (s)		4.0		4.0	4.0	
		4.0		-1.0	7.0	
Lead/Lag						
Lead-Lag Optimize?		NL.		C M	O Maria	
Recall Mode		None		C-Max		0.00
v/c Ratio		0.60			0.37	0.20
Control Delay		15.4			5.0	0.3
Queue Delay		0.0			0.0	0.0
Total Delay		15.4			5.0	0.3
Queue Length 50th (ft)		42			68	0
Queue Length 95th (ft)		78			123	0
Internal Link Dist (ft)	460	, .		981	930	
Turn Bay Length (ft)	700			001	000	500
		1042			2528	1615
Base Capacity (vph)		1042				
Starvation Cap Reductn		0			0	0
Spillback Cap Reductn		0			0	0
Storage Cap Reductn		0			0	0
Reduced v/c Ratio		0.39			0.37	0.20
Intersection Summary		E della	No.	1.1		
Area Type:	Other					
Cycle Length: 70						
Actuated Cycle Length: 70						
Offset: 0 (0%), Referenced	to phase 2.	NRT and	6.SRT	Start of V4	ellow	
Unset. U (U%), Reletenced	to phase Z.		0.001, 0		5110 11	_
ainridge Park Casino						

### 2019 Saturday Afternoon Peak Hour - Average-Month Conditions 12: Route 1 & I-495 SB Off-Ramp

# Natural Cycle: 50

Control Type: Actuated-Coordinated

#### Splits and Phases: 12: Route 1 & I-495 SB Off-Ramp



## 2019 Saturday Afternoon Peak Hour - Average-Month Conditions 12: Route 1 & I-495 SB Off-Ramp

08/08/2019

	۶	*	*	Ť	Ļ	1	
Movement	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations		11		ተተ	<u>†</u> †	7	
Traffic Volume (vph)	0	370	0	0	887	306	
Future Volume (vph)	0	370	0	0	887	306	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Total Lost time (s)		4.0			4.0	2.0	
Lane Util. Factor		0.88			0.95	1.00	
Frt		0.85			1.00	0.85	
Flt Protected		1.00			1.00	1.00	
Satd. Flow (prot)		2842			3574	1615	
Flt Permitted		1.00			1.00	1.00	
Satd. Flow (perm)		2842			3574	1615	
Peak-hour factor, PHF	0.90	0.90	0.92	0.92	0.94	0.94	
Adj. Flow (vph)	0.00	411	0	0	944	326	
RTOR Reduction (vph)	0	178	Ő	0	0	0	
Lane Group Flow (vph)	0	233	0	0	944	326	
Heavy Vehicles (%)	0%	0%	0%	0%	1%	0%	
Turn Type	070	Prot	070	070	NA	Free	
Protected Phases		4		2	6	1100	
Permitted Phases		4		2	0	Free	
Actuated Green, G (s)		10.5			47.5	70.0	
Effective Green, g (s)		12.5			49.5	70.0	
Actuated g/C Ratio		0.18			0.71	1.00	
Clearance Time (s)		6.0			6.0	1.00	
		3.0			3.0		
Vehicle Extension (s)		507			2527	1615	
Lane Grp Cap (vph)					c0.26	1015	
v/s Ratio Prot		c0.08			0.20	0.20	
v/s Ratio Perm		0.46			0.37	0.20	
v/c Ratio		0.46			4.1	0.20	
Uniform Delay, d1		25.7			1.00	1.00	
Progression Factor		1.00			0.4	0.3	
Incremental Delay, d2		0.7					
Delay (s)		26.4			4.5	0.3	
Level of Service	00.4	С		0.0	A	А	
Approach Delay (s)	26.4			0.0	3.4		
Approach LOS	С			A	А		
Intersection Summary		×15.00	115			5250.0	
HCM 2000 Control Delay			9.0	Н	CM 2000	Level of Serv	vice A
HCM 2000 Volume to Capacit	ty ratio		0.39				
Actuated Cycle Length (s)	-		70.0	S	um of lost	t time (s)	8.0
Intersection Capacity Utilization	on		44.1%	IC	U Level o	of Service	А
Analysis Period (min)			15				
c Critical Lane Group							

## 2019 Weekday Evening Peak Hour - Average-Month Conditions 20: Route 1 & Plainridge Park Casino Drive

08/08/2019
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	*	*	†	1	5	Ļ	
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations	٦	77	<u>†</u> †	1	٦	ተተ	
Traffic Volume (vph)	63	172	962	51	145	1572	
Future Volume (vph)	63	172	962	51	145	1572	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Storage Length (ft)	0	200	1000	275	700		
Storage Lanes	1	200		1	1		
	25	2			25		
Taper Length (ft)	1787	2842	3574	1583	1805	3574	
Satd. Flow (prot)	0.950	2042	5574	1000	0.950	0014	
Fit Permitted		2040	3574	1583	1805	3574	
Satd. Flow (perm)	1787	2842	3074		1000	3074	
Right Turn on Red		Yes		Yes			
Satd. Flow (RTOR)		68		54		00	
Link Speed (mph)	30		30			30	
Link Distance (ft)	848		836			1072	
Travel Time (s)	19.3		19.0			24.4	
Peak Hour Factor	0.96	0.96	0.94	0.94	0.96	0.96	
Heavy Vehicles (%)	1%	0%	1%	2%	0%	1%	
Shared Lane Traffic (%)							
Lane Group Flow (vph)	66	179	1023	54	151	1638	
Turn Type	Prot	pm+ov	NA	Free	Prot	NA	
Protected Phases	8	1	2		1	6	
Permitted Phases		8		Free			
Detector Phase	8	1	2	1100	1	6	
Switch Phase	Ŭ	· ·	2				
	4.0	4.0	4.0		4.0	4.0	
Minimum Initial (s)	22.0	10.0	22.0		10.0	22.0	
Minimum Split (s)		21.0	37.0		21.0	58.0	
Total Split (s)	22.0						
Total Split (%)	27.5%	26.3%	46.3%		26.3%	72.5%	
Yellow Time (s)	4.0	4.0	4.0		4.0	4.0	
All-Red Time (s)	2.0	2.0	2.0		2.0	2.0	
Lost Time Adjust (s)	-2.0	-2.0	-2.0		-2.0	-2.0	
Total Lost Time (s)	4.0	4.0	4.0		4.0	4.0	
_ead/Lag		Lead	Lag		Lead		
Lead-Lag Optimize?		Yes	Yes		Yes		
Recall Mode	None	None	C-Max		None	C-Max	
Act Effct Green (s)	10.3	25.9	46.1	80.0	13.9	64.8	
Actuated g/C Ratio	0.13	0.32	0.58	1.00	0.17	0.81	
v/c Ratio	0.29	0.19	0.50	0.03	0.48	0.57	
Control Delay	33.9	10.1	13.0	0.0	35.3	3.0	
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	
	33.9	10.1	13.0	0.0	35.3	3.0	
Total Delay	33.9 C	B	13.0 B	0.0 A	55.5 D	3.0 A	
LOS		В		А	U	5.7	
Approach Delay	16.5		12.4				
Approach LOS	В		B	~	74	A	
Queue Length 50th (ft)	30	21	158	0	71	88	
Queue Length 95th (ft)	64	36	261	0	m115	117	
Internal Link Dist (ft)	768		756			992	
Turn Bay Length (ft)		200		275	700		
Base Capacity (vph)	402	1084	2057	1583	389	2893	

# 2019 Weekday Evening Peak Hour - Average-Month Conditions 20: Route 1 & Plainridge Park Casino Drive

	4	*	†	1	1	Ļ	
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT	
Starvation Cap Reductn	0	0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0	0	
Reduced v/c Ratio	0,16	0,17	0,50	0.03	0.39	0.57	
Intersection Summary	st fan fr	417		1 A . / .	112 ST	1-2-48	
Area Type:	Other						
Cycle Length: 80							
Actuated Cycle Length: 80	)						
Offset: 0 (0%), Referenced	d to phase 2:	VBT and	6:SBT, SI	art of Yel	low		
Natural Cycle: 60							
Control Type: Actuated-Co	oordinated						
Maximum v/c Ratio: 0.57							
Intersection Signal Delay:	8.9			In	tersection	LOS: A	
Intersection Capacity Utilization 53.6% ICU Level of Service A							۱.
Analysis Period (min) 15							
m Volume for 95th perce	entile queue i	s metered	by upstr	eam sign	al.		
Splits and Phases: 20:1	Route 1 & Pla	ainridge P	ark Casir	o Drive			

<b>\$</b> Ø1	<b>1</b> ø₂ (R)	Ψ
21 s	37 s	the investment of the investment of the
↓ Ø6 (R)		v v g8
58 s		22 5

# 2019 Weekday Evening Peak Hour - Average-Month Conditions 20: Route 1 & Plainridge Park Casino Drive

	*	•	+	1	1	Ļ	
Movement	WBL	WBR	NBT	NBR	SBL	SBT	the second state of the second state of the
Lane Configurations	۲	77	<u>††</u>	1	۳	<u>††</u>	
Traffic Volume (vph)	63	172	962	51	145	1572	
Future Volume (vph)	63	172	962	51	145	1572	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Total Lost time (s)	4.0	4.0	4.0	4.0	4.0	4.0	
Lane Util. Factor	1.00	0.88	0.95	1.00	1.00	0.95	
Frt	1.00	0.85	1.00	0.85	1.00	1.00	
Flt Protected	0.95	1.00	1.00	1.00	0.95	1.00	
Satd. Flow (prot)	1787	2842	3574	1583	1805	3574	
Flt Permitted	0.95	1.00	1.00	1.00	0.95	1.00	
Satd. Flow (perm)	1787	2842	3574	1583	1805	3574	
Peak-hour factor, PHF	0.96	0.96	0.94	0.94	0.96	0.96	
Adj. Flow (vph)	66	179	1023	54	151	1638	
RTOR Reduction (vph)	0	48	0	0	0	0	
Lane Group Flow (vph)	66	131	1023	54	151	1638	
Heavy Vehicles (%)	1%	0%	1%	2%	0%	1%	
Turn Type	Prot	pm+ov	NA	Free	Prot	NA	
Protected Phases	8	1	2	1100	1	6	
Permitted Phases	0	8	2	Free		Ŭ	
Actuated Green, G (s)	7.2	19.1	42.9	80.0	11.9	60.8	
Effective Green, g (s)	9.2	23.1	44.9	80.0	13.9	62.8	
Actuated g/C Ratio	0.11	0.29	0.56	1.00	0.17	0.78	
Clearance Time (s)	6.0	6.0	6.0	1.00	6.0	6.0	
Vehicle Extension (s)	3.0	3.0	3.0		3.0	3.0	
	205	962	2005	1583	313	2805	
Lane Grp Cap (vph) v/s Ratio Prot	c0.04	0.02	0.29	1000	0.08	c0.46	
	0.04	0.02	0.23	0.03	0.00	00.40	
v/s Ratio Perm	0.32	0.02	0.51	0.03	0.48	0.58	
v/c Ratio	32.5	21.1	10.8	0.0	29.8	3.4	
Uniform Delay, d1 Progression Eactor	1.00	1.00	1.00	1.00	1.07	0.59	
Progression Factor	0.9	0.1	0.9	0.0	1.07	0.39	
Incremental Delay, d2	33.4	21.1	11.7	0.0	32.8	2.8	
Delay (s) Level of Service	33.4 C	21.1 C	B	A	52.0 C	2.0 A	
Level of Service	24.4	U	11.1	~	U	5.3	
Approach Delay (s) Approach LOS	24.4 C		B			A.	
Intersection Summary	10	an	1.4.2				
HCM 2000 Control Delay			8.8	H	CM 2000	Level of Service	e A
HCM 2000 Volume to Capac	city ratio		0.58				
Actuated Cycle Length (s)			80.0	Si	um of los	t time (s)	12.0
Intersection Capacity Utilizat	ion		53.6%			of Service	А
Analysis Period (min)			15				
c Critical Lane Group							

## 2019 Saturday Afternoon Peak Hour - Average-Month Conditions 20: Route 1 & Plainridge Park Casino Drive

	4	×.	1	1	1	Ļ	
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT	
_ane Configurations	ሻ	77	ተተ	1	٢	<b>^</b>	
Traffic Volume (vph)	52	213	980	82	250	1001	
Future Volume (vph)	52	213	980	82	250	1001	
deal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Storage Length (ft)	0	200		275	700		
Storage Lanes	1	2		1	1		
Taper Length (ft)	25				25		
Right Turn on Red		Yes		Yes			
_ink Speed (mph)	30		30			30	
Link Distance (ft)	714		636			1072	
Travel Time (s)	16.2		14.5			24.4	
Peak Hour Factor	0.85	0.85	0.85	0.85	0.95	0.95	
leavy Vehicles (%)	0%	0.00	1%	0%	0%	0%	
Shared Lane Traffic (%)	0 /0	0 70	170	070	0.10	070	
	61	251	1153	96	263	1054	
ane Group Flow (vph)	61				Prot	NA	
Turn Type	Prot	pm+ov	NA	Free	Prot 1	NA 6	
Protected Phases	8	1	2	E.e.	1	0	
Permitted Phases		8	0	Free		0	
Detector Phase	8	1	2		1	6	
Switch Phase							
Ainimum Initial (s)	4.0	4.0	4.0		4.0	4.0	
/linimum Split (s)	22.0	10.0	22.0		10.0	22.0	
Total Split (s)	21.0	20.0	29.0		20.0	49.0	
Fotal Split (%)	30.0%	28.6%	41.4%		28.6%	70.0%	
ellow Time (s)	4.0	4.0	4.0		4.0	4.0	
All-Red Time (s)	2.0	2.0	2.0		2.0	2.0	
ost Time Adjust (s)	-2.0	-2.0	-2.0		-2.0	-2.0	
otal Lost Time (s)	4.0	4.0	4.0		4.0	4.0	
.ead/Lag		Lead	Lag		Lead		
ead-Lag Optimize?		Yes	Yes		Yes		
Recall Mode	None	None	C-Max		None	C-Max	
/c Ratio	0.24	0.24	0.62	0.06	0.61	0.35	
Control Delay	28.5	12.4	17.6	0.1	30.4	2.3	
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	
Total Delay	28.5	12.4	17.6	0.1	30.4	2.3	
Queue Length 50th (ft)	24	32	204	0	101	52	
Queue Length 95th (ft)	50	42	#329	0	159	77	
nternal Link Dist (ft)	634	12	556	·	100	992	
Furn Bay Length (ft)	004	200	000	275	700	002	
Base Capacity (vph)	438	1102	1851	1615	459	3023	
	430	0	0	0	400	0	
Starvation Cap Reductn					0	0	
Spillback Cap Reductn	0	0	0	0		0	
Storage Cap Reductn	0	0	0	0	0 57	-	
Reduced v/c Ratio	0.14	0.23	0.62	0.06	0.57	0.35	
ntersection Summary	0"			n. 1. 25-		n (1	
Area Type:	Other						
Cycle Length: 70							
ctuated Cycle Length: 70							
Offset: 0 (0%), Referenced	I to phase 2	:NBT and	6:SBT, S	tart of Ye	llow		

Plainridge Park Casino BG

#### Natural Cycle: 65

Control Type: Actuated-Coordinated

# 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.

#### Splits and Phases: 20: Route 1 & Plainridge Park Casino Drive

\$01	<b>1</b> Ø2 (R)	Ψ		
20 s	29 s	a new particular		
Ø6 (R)		W.	<b>√</b> Ø8	
49 s	zy za ni ma cast i som ni sunyani kinga	Contraction of the second	21 s	

## 2019 Saturday Afternoon Peak Hour - Average-Month Conditions 20: Route 1 & Plainridge Park Casino Drive

	*	*	Ť	1	4	÷.		
Movement	WBL	WBR	NBT	NBR	SBL	SBT		S. Martin
Lane Configurations	۲	ሻሻ	<u>†</u> †	1	٦	<u>††</u>		
Traffic Volume (vph)	52	213	980	82	250	1001		
Future Volume (vph)	52	213	980	82	250	1001		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900		
Total Lost time (s)	4.0	4.0	4.0	2.0	4.0	4.0		
Lane Util. Factor	1.00	0.88	0.95	1.00	1.00	0.95		
Frt	1.00	0.85	1.00	0.85	1.00	1.00		
Flt Protected	0.95	1.00	1.00	1.00	0.95	1.00		
Satd. Flow (prot)	1805	2842	3574	1615	1805	3610		
Flt Permitted	0.95	1.00	1.00	1.00	0.95	1.00		
Satd. Flow (perm)	1805	2842	3574	1615	1805	3610		
Peak-hour factor, PHF	0.85	0.85	0.85	0.85	0.95	0.95		100
Adj. Flow (vph)	61	251	1153	96	263	1054		
RTOR Reduction (vph)	0	15	0	0	0	0		
Lane Group Flow (vph)	61	236	1153	96	263	1054		
Heavy Vehicles (%)	0%	0%	1%	0%	0%	0%		
Turn Type	Prot	pm+ov	NA	Free	Prot	NA		
Protected Phases	8	1	2		1	6		
Permitted Phases		8		Free				
Actuated Green, G (s)	5.4	20.2	31.8	70.0	14.8	52.6		
Effective Green, g (s)	7.4	24.2	33.8	70.0	16.8	54.6		
Actuated g/C Ratio	0.11	0.35	0.48	1.00	0.24	0.78		
Clearance Time (s)	6.0	6.0	6.0		6.0	6.0		
Vehicle Extension (s)	3.0	3.0	3.0		3.0	3.0		
Lane Grp Cap (vph)	190	1144	1725	1615	433	2815		
v/s Ratio Prot	c0.03	0.05	c0.32		c0.15	0.29		
v/s Ratio Perm		0.03		0.06				
v/c Ratio	0.32	0.21	0.67	0.06	0.61	0.37		
Uniform Delay, d1	29.0	16.1	13.8	0.0	23.7	2.4		
Progression Factor	1.00	1.00	1.00	1.00	1.05	0.75		
Incremental Delay, d2	1.0	0.1	2.1	0.1	2.3	0.4		
Delay (s)	30.0	16.2	15.9	0.1	27.2	2.2		
Level of Service	С	В	В	А	С	А		
Approach Delay (s)	18.9		14.7			7.2		
Approach LOS	В		В			А		
Intersection Summary	1918	. Y 8,	fill, fa	J v M P		* j = j :		1.73
HCM 2000 Control Delay			11.7	Н	CM 2000	Level of Serv	vice B	
HCM 2000 Volume to Capac	ity ratio		0.61					
Actuated Cycle Length (s)			70.0	S	um of lost	t time (s)	12.0	
Intersection Capacity Utilizati	ion		54.3%			of Service	А	
Analysis Period (min)			15					
c Critical Lane Group								

## 2019 Weekday Evening Peak Hour - Average-Month Conditions 14: Route 1 & Route 152/Route 152

08/08/2019

	٨		$\mathbf{r}$	4	-	×.	۴I	-	1	1	L	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL
Lane Configurations	ሻሻ	<b>†</b> †	٢	٦	<b>††</b>	77		A	ተተ	7		5
Traffic Volume (vph)	191	263	211	66	253	339	1	119	477	28	6	380
Future Volume (vph)	191	263	211	66	253	339	1	119	477	28	6	380
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	10	14	12	11	12	11	12	10	12	12
Storage Length (ft)	300		180	245		245		245		210		250
Storage Lanes	2		1	1		2		1		1		1
Taper Length (ft)	25			25				25				25
Right Turn on Red			Yes			Yes				Yes		
Link Speed (mph)		30			30				30			
Link Distance (ft)		571			329				2907			
Travel Time (s)		13.0			7.5				66.1			
Peak Hour Factor	0.94	0.94	0.94	0.91	0.91	0.91	0.97	0.97	0.97	0.97	0.86	0.86
Heavy Vehicles (%)	1%	0%	0%	0%	0%	1%	0%	0%	1%	0%	0%	1%
Shared Lane Traffic (%)												
Lane Group Flow (vph)	203	280	224	73	278	373	0	124	492	29	0	449
Turn Type	Prot		custom	Prot	NA	Perm	Prot	Prot	NA	Free	Prot	Prot
Protected Phases	7	4	4	3	8		5	5	2		1	1
Permitted Phases			4			8				Free		
Detector Phase	7	4	4	3	8	8	5	5	2		1	1
Switch Phase												
Minimum Initial (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0		4.0	4.0
Minimum Split (s)	10.0	18.0	18.0	10.0	16.0	16.0	10.0	10.0	20.0		10.0	10.0
Total Split (s)	13.0	19.0	19.0	13.0	19.0	19.0	16.0	16.0	27.0		41.0	41.0
Total Split (%)	13.0%	19.0%	19.0%	13.0%	19.0%	19.0%	16.0%	16.0%	27.0%		41.0%	41.0%
Maximum Green (s)	7.0	13.0	13.0	7.0	13.0	13.0	10.0	10.0	21.0		35.0	35.0
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0		4.0	4.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0		2.0	2.0
Lost Time Adjust (s)	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0		-2.0	-2.0			-2.0
Total Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0		4.0	4.0			4.0
Lead/Lag	Lead	Lead	Lead	Lag	Lag	Lag	Lag	Lag	Lag		Lead	Lead
Lead-Lag Optimize?	Louid	Loud	Loud	249	209	3	3	3				
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0
Recall Mode	None	None	None	None	None	None	None	None	C-Max		None	None
v/c Ratio	0.65	0.47	0.41	0.43	0.54	0.53		0.59	0.47	0.02		0.80
Control Delay	66.0	47.2	7.6	51.2	44.0	7.1		54.2	32.3	0.0		42.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		31.4
Total Delay	66.0	47.2	7.6	51.2	44.0	7.1		54.2	32.3	0.0		73.6
Queue Length 50th (ft)	72	80	0	45	86	0		76	138	0		257
Queue Length 95th (ft)	110	146	40	90	129	44		#138	202	0		328
Internal Link Dist (ft)	110	491	10	00	249				2827	-		
Turn Bay Length (ft)	300	101	180	245	2.0	245		245		210		250
Base Capacity (vph)	312	610	545	176	541	725		209	1048	1507		661
Starvation Cap Reductn	0	0	0+0	0	0	0		0	0	0		227
Spillback Cap Reductn	0	0	0	0	0	0		0	Ũ	0		0
Storage Cap Reductn	0	0	0	0	0	0		0	0 0	0		Ũ
Reduced v/c Ratio	0.65	0.46	0.41	0.41	0.51	0.51		0.59	0.47	0.02		1.03
	0,00	0,40	0.71	0.71	0.01	0.01		0.00	0.11	0.02		
Intersection Summary				1008-5		S. 14-16		8 H A	- 3.5	<u>an</u> 11,		
Area Type:	Other											

Plainridge Park Casino BG Synchro 8 - Report S:\Jobs\6964\Analysis\2019\ex19pm.syn

## 2019 Weekday Evening Peak Hour - Average-Month Conditions 14: Route 1 & Route 152/Route 152

08/08/2019

	Ļ	4	
Lane Group	SBT	SBR	
Lana Configurations	<b>†</b> †		
Traffic Volume (vph)	1006	0	
Future Volume (vph)	1006	0	
Ideal Flow (vphpl)	1900	1900	
Lane Width (ft)	12	12	
Storage Length (ft)	14	0	
Storage Lanes		0	
Taper Length (ft)		Ŭ	
Right Turn on Red		Yes	
Link Speed (mph)	30	103	
Link Distance (ft)	282		
	6.4		
Travel Time (s)		0.86	
Peak Hour Factor	0.86		
Heavy Vehicles (%)	1%	0%	
Shared Lane Traffic (%)	4470	0	
Lane Group Flow (vph)	1170	0	
Turn Type	NA		
Protected Phases	6		
Permitted Phases			
Detector Phase	6		
Switch Phase			
Minimum Initial (s)	4.0		
Minimum Split (s)	20.0		
Total Split (s)	52.0		
Total Split (%)	52.0%		
Maximum Green (s)	46.0		
Yellow Time (s)	4.0		
All-Red Time (s)	2.0		
Lost Time Adjust (s)	-2.0		
Total Lost Time (s)	4.0		
Lead/Lag	Lead		
Lead-Lag Optimize?			
Vehicle Extension (s)	3.0		
Recall Mode	C-Max		
v/c Ratio	0.67		
Control Delay	22.1		
Queue Delay	49.7		
Total Delay	71.7		
Queue Length 50th (ft)	292		
	342		
Queue Length 95th (ft)	202		
Internal Link Dist (ft)	202		
Turn Bay Length (ft)	4744		
Base Capacity (vph)	1744		
Starvation Cap Reductn	739		
Spillback Cap Reductn	0		
Storage Cap Reductn	0		
Reduced v/c Ratio	1.16		
Intersection Summary			

Cycle Length: 100
Actuated Cycle Length: 100
Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBT, Start of Yellow
Natural Cycle: 70
Control Type: Actuated-Coordinated
# 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

#### Splits and Phases: 14: Route 1 & Route 152/Route 152

<b>4</b> ₀₁	1 Ø2 (R)	W	- <b>5</b> ₽Ø4	<b>√</b> Ø3
41 s	27 s		19 s	13 s
Ø6 (R)	U.	<b>*1</b> Ø5	<i>▶</i> ø7	Ø8
52 s	A VILLAND A	16 s	13 s	19 5

# 2019 Weekday Evening Peak Hour - Average-Month Conditions 14: Route 1 & Route 152/Route 152

	٨		7	*	-	*	₹Ĩ	1	Ť	1	L	1
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL
Lane Configurations	ሻሻ	<u>†</u> †	ť.	۲	<u>†</u> †	ሻሻ		a a a a a a a a a a a a a a a a a a a	<u>†</u> †	7		a la
Traffic Volume (vph)	191	263	211	66	253	339	1	119	477	28	6	380
Future Volume (vph)	191	263	211	66	253	339	1	119	477	28	6	380
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width	12	12	10	14	12	11	12	11	12	10	12	12
Total Lost time (s)	4.0	4.0	4.0	4.0	4.0	4.0		4.0	4.0	2.0		4.0
Lane Util. Factor	0.97	0.95	1.00	1.00	0.95	0.88		1.00	0.95	1.00		1.00
Frt	1.00	1.00	0.85	1.00	1.00	0.85		1.00	1.00	0.85		1.00
Flt Protected	0.95	1.00	1.00	0.95	1.00	1.00		0.95	1.00	1.00		0.95
Satd. Flow (prot)	3467	3610	1507	1925	3610	2720		1745	3574	1507		1787
Flt Permitted	0.95	1.00	1.00	0.95	1.00	1.00		0.95	1.00	1.00		0.95
Satd. Flow (perm)	3467	3610	1507	1925	3610	2720		1745	3574	1507		1787
Peak-hour factor, PHF	0.94	0.94	0.94	0.91	0.91	0.91	0.97	0.97	0.97	0.97	0.86	0.86
Adj. Flow (vph)	203	280	224	73	278	373	1	123	492	29	7	442
RTOR Reduction (vph)	0	0	187	0	0	316	0	0	0	0	0	0
Lane Group Flow (vph)	203	280	37	73	278	57	0	124	492	29	0	449
Heavy Vehicles (%)	1%	0%	0%	0%	0%	1%	0%	0%	1%	0%	0%	1%
Turn Type	Prot	NA	custom	Prot	NA	Perm	Prot	Prot	NA	Free	Prot	Prot
Protected Phases	7	4	4	3	8		5	5	2		1	1
Permitted Phases			4			8				Free		
Actuated Green, G (s)	7.0	14.6	14.6	5.8	13.4	13.4		10.0	26.1	100.0		29.5
Effective Green, g (s)	9.0	16.6	16.6	7.8	15.4	15.4		12.0	28.1	100.0		31.5
Actuated g/C Ratio	0.09	0.17	0.17	0.08	0.15	0.15		0.12	0.28	1.00		0.32
Clearance Time (s)	6.0	6.0	6.0	6.0	6.0	6.0		6.0	6.0			6.0
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0			3.0
Lane Grp Cap (vph)	312	599	250	150	555	418		209	1004	1507		562
v/s Ratio Prot	c0.06	c0.08	0.02	0.04	c0.08			c0.07	0.14			c0.25
v/s Ratio Perm						0.02				0.02		
v/c Ratio	0.65	0.47	0.15	0.49	0.50	0.14		0.59	0.49	0.02		0.80
Uniform Delay, d1	44.0	37.7	35.7	44.2	38.8	36.6		41.7	30.0	0.0		31.4
Progression Factor	1.27	1.15	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00
Incremental Delay, d2	4.7	0.6	0.3	2.5	0.7	0.2		4.5	1.7	0.0		7.8
Delay (s)	60.4	43.9	35.9	46.7	39.5	36.7		46.2	31.7	0.0		39.2
Level of Service	E	D	D	D	D	D		D	С	А		D
Approach Delay (s)		46.1			38.8				33.0			
Approach LOS		D			D				С			
Intersection Summary	1.15.76	$M \leq N_{\rm e}$	61. j. i				11 - M ² /		5	20 ¹⁶ - L	Coff-	5671
HCM 2000 Control Delay			34.1	Н	CM 2000	Level of \$	Service		С			
HCM 2000 Volume to Capa	city ratio		0.68									
Actuated Cycle Length (s)			100.0		um of los				18.0			
Intersection Capacity Utiliza	ation		65.2%	IC	U Level	of Service			С			
Analysis Period (min)			15									
c Critical Lane Group												

## 2019 Weekday Evening Peak Hour - Average-Month Conditions 14: Route 1 & Route 152/Route 152

08/08/2019

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Movement	SBT	SBR	a sur sur an an air a		ily XVP ju V		
Lana Configurations	ተተ						
Traffic Volume (vph)	1006	0					
Future Volume (vph)	1006	0					
Ideal Flow (vphpl)	1900	1900					
Lane Width	12	12					
Total Lost time (s)	4.0						
Lane Util. Factor	0.95						
Frt	1.00						
Flt Protected	1.00						
Satd. Flow (prot)	3574						
Flt Permitted	1.00						
Satd. Flow (perm)	3574			1		1	
Peak-hour factor, PHF	0.86	0.86					
Adj. Flow (vph)	1170	0					
RTOR Reduction (vph)	0	0					
Lane Group Flow (vph)	1170	0					
Heavy Vehicles (%)	1%	0%					_
Turn Type	NA						
Protected Phases	6						
Permitted Phases							
Actuated Green, G (s)	45.6						
Effective Green, g (s)	47.6						
Actuated g/C Ratio	0.48						
Clearance Time (s)	6.0						
Vehicle Extension (s)	3.0						
Lane Grp Cap (vph)	1701	5 - 1 C					
v/s Ratio Prot	c0.33						
v/s Ratio Perm							
v/c Ratio	0.69						
Uniform Delay, d1	20.4						
Progression Factor	1.00						
Incremental Delay, d2	2.3						
Delay (s)	22.7						
Level of Service	С						
Approach Delay (s)	27.3						
Approach LOS	С						
		1			-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	121000	
Intersection Summary							

# 2019 Saturday Afternoon Peak Hour - Average-Month Conditions 14: Route 1 & Route 152/Route 152

08/08/2019	
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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL
Lane Configurations	ኻኻ	<u>†</u> †	1	۲	ተተ	17		1	<u>††</u>	7		a la
Traffic Volume (vph)	231	290	152	60	294	327	1	115	496	49	8	279
Future Volume (vph)	231	290	152	60	294	327	1	115	496	49	8	279
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	10	14	12	11	12	11	12	10	12	12
Storage Length (ft)	300		180	245		245		245		210		250
Storage Lanes	2		1	1		2		1		1		1
Taper Length (ft)	25			25				25				25
Right Turn on Red			Yes			Yes				Yes		
Link Speed (mph)		30			30				30			
Link Distance (ft)		571			329				2907			
Travel Time (s)		13.0			7.5				66.1			
Peak Hour Factor	0.93	0.93	0.93	0.90	0.90	0.90	0.91	0.91	0.91	0.91	0.92	0.92
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Shared Lane Traffic (%)	070	070	575	570	5,0	570	5.0	5.0				
Lane Group Flow (vph)	248	312	163	67	327	363	0	127	545	54	0	312
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	Prot	NA	Free	Prot	Prot
Protected Phases	7	4	1 Chin	3	8	1 Unit	5	5	2	1100	1	1
Permitted Phases	1	-	4	0	U	8	0	Ū	-	Free		
Detector Phase	7	4	4	3	8	8	5	5	2	1100	1	1
Switch Phase	1	4	4	0	0	U	0	0	2			
	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0		4.0	4.0
Minimum Initial (s)	10.0	18.0	18.0	10.0	16.0	16.0	10.0	10.0	20.0		10.0	10.0
Minimum Split (s)	15.0	22.0	22.0	12.0	19.0	19.0	17.0	17.0	23.0		23.0	23.0
Total Split (s)	18.8%	27.5%	27.5%	15.0%	23.8%	23.8%	21.3%	21.3%	28.8%		28.8%	28.8%
Total Split (%)		16.0	16.0	6.0	13.0	13.0	11.0	11.0	17.0		17.0	17.0
Maximum Green (s)	9.0			4.0	4.0	4.0	4.0	4.0	4.0		4.0	4.0
Yellow Time (s)	4.0	4.0	4.0		2.0	2.0	2.0	2.0	2.0		2.0	2.0
All-Red Time (s)	2.0	2.0	2.0	2.0	-2.0	-2.0	2.0	-2.0	-2.0		2.0	-2.0
Lost Time Adjust (s)	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0		4.0	4.0			4.0
Total Lost Time (s)	4.0	4.0	4.0	4.0			Log				Lood	
Lead/Lag	Lead	Lead	Lead	Lag	Lag	Lag	Lag	Lag	Lag		Lead	Lead
Lead-Lag Optimize?	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0		3.0	3.0
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0			
Recall Mode	None	None	None	None	None	None	None	None	C-Max	0.04	None	None
v/c Ratio	0.53	0.40	0.33	0.29	0.52	0.46		0.48	0.57	0.04		0.77
Control Delay	34.0	26.6	5.9	35.9	32.9	5.5		37.2	29.1	0.0		42.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		3.4
Total Delay	34.0	26.6	5.9	35.9	32.9	5.5		37.2	29.1	0.0		46.2
Queue Length 50th (ft)	60	74	0	30	77	0		58	128	0		144
Queue Length 95th (ft)	96	107	50	70	117	37		110	181	0		#255
Internal Link Dist (ft)		491			249				2827			050
Turn Bay Length (ft)	300		180	245		245		245		210		250
Base Capacity (vph)	481	875	520	234	676	810		283	955	1507		428
Starvation Cap Reductn	0	0	0	0	0	0		0	0	0		54
Spillback Cap Reductn	0	0	0	0	0	0		0	0	0		0
Storage Cap Reductn	0	0	0	0	0	0		0	0	0		0
Reduced v/c Ratio	0.52	0.36	0.31	0.29	0.48	0.45		0.45	0.57	0.04		0.83
Intersection Summary	12-16			5 P.X.		1.58	175 - 115					
	Other											

Plainridge Park Casino BG Synchro 8 - Report S:\Jobs\6964\Analysis\2019\ex19sat.syn

## 2019 Saturday Afternoon Peak Hour - Average-Month Conditions 14: Route 1 & Route 152/Route 152

08/08/2019

Lane GroupSBTSBRLane Configurations14Traffic Volume (vph)4970Future Volume (vph)4970Ideal Flow (vphpl)19001900Lane Width (ft)1212Storage Length (ft)0Storage Lanes0Taper Length (ft)30Link Speed (mph)30Link Distance (ft)282Travel Time (s)6.4Peak Hour Factor0.920.920.92
Lan Configurations       11         Traffic Volume (vph)       497       0         Future Volume (vph)       497       0         Ideal Flow (vphpl)       1900       1900         Lane Width (ft)       12       12         Storage Length (ft)       0       0         Storage Lanes       0       0         Taper Length (ft)       Yes       1         Link Speed (mph)       30       1         Link Distance (ft)       282       1         Travel Time (s)       6.4       1         Peak Hour Factor       0.92       0.92
Traffic Volume (vph)       497       0         Future Volume (vph)       497       0         Ideal Flow (vphpl)       1900       1900         Lane Width (ft)       12       12         Storage Length (ft)       0       0         Storage Lanes       0       0         Taper Length (ft)       Yes       1         Link Speed (mph)       30       1         Link Distance (ft)       282       1         Travel Time (s)       6.4       1         Peak Hour Factor       0.92       0.92
Future Volume (vph)       497       0         Ideal Flow (vphpl)       1900       1900         Lane Width (ft)       12       12         Storage Length (ft)       0       0         Storage Lanes       0       0         Taper Length (ft)       0       0         Right Turn on Red       Yes       1         Link Speed (mph)       30       1         Link Distance (ft)       282       1         Travel Time (s)       6.4       1         Peak Hour Factor       0.92       0.92
Ideal Flow (vphpl)19001900Lane Width (ft)1212Storage Length (ft)0Storage Lanes0Taper Length (ft)0Right Turn on RedYesLink Speed (mph)30Link Distance (ft)282Travel Time (s)6.4Peak Hour Factor0.920.920.92
Lane Width (ft)1212Storage Length (ft)0Storage Lanes0Taper Length (ft)0Right Turn on RedYesLink Speed (mph)30Link Distance (ft)282Travel Time (s)6.4Peak Hour Factor0.920.920.92
Storage Length (ft)0Storage Lanes0Taper Length (ft)0Right Turn on RedYesLink Speed (mph)30Link Distance (ft)282Travel Time (s)6.4Peak Hour Factor0.920.920.92
Storage Lanes0Taper Length (ft)YesRight Turn on RedYesLink Speed (mph)30Link Distance (ft)282Travel Time (s)6.4Peak Hour Factor0.920.920.92
Taper Length (ft)Right Turn on RedYesLink Speed (mph)30Link Distance (ft)282Travel Time (s)6.4Peak Hour Factor0.920.920.92
Right Turn on RedYesLink Speed (mph)30Link Distance (ft)282Travel Time (s)6.4Peak Hour Factor0.920.920.92
Link Speed (mph)30Link Distance (ft)282Travel Time (s)6.4Peak Hour Factor0.920.920.92
Link Distance (ft)282Travel Time (s)6.4Peak Hour Factor0.920.920.92
Travel Time (s)     6.4       Peak Hour Factor     0.92
Peak Hour Factor 0.92 0.92
Heavy Vehicles (%) 1% 0%
Shared Lane Traffic (%)
Lane Group Flow (vph) 540 0
Turn Type NA
Protected Phases 6
Permitted Phases
Detector Phase 6
Switch Phase
Minimum Initial (s) 4.0
Minimum Split (s) 20.0
Total Split (s) 29.0
Total Split (%) 36.3%
Maximum Green (s) 23.0
Yellow Time (s) 4.0
Lost Time Adjust (s) -2.0
Total Lost Time (s) 4.0
Lead/Lag Lead
Lead-Lag Optimize?
Vehicle Extension (s) 3.0
Recall Mode C-Max
v/c Ratio 0.41
Control Delay 21.7
Queue Delay 0.4
Total Delay 22.0
Queue Length 50th (ft) 113
Queue Length 95th (ft) 160
Internal Link Dist (ft) 202
Turn Bay Length (ft)
Base Capacity (vph) 1322
Starvation Cap Reductn 329
Spillback Cap Reductn 0
Storage Cap Reductn 0
Reduced v/c Ratio 0.54
Intersection Summary

Cycle Length: 80 Actuated Cycle Length: 80 Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBT, Start of Yellow Natural Cycle: 65 Control Type: Actuated-Coordinated # 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.

#### Splits and Phases: 14: Route 1 & Route 152/Route 152

₩ _{Ø1}	1 Ø2 (R)	<b>⊎</b> — <b>Þ</b> Ø4	<b>√</b> Ø3
23 s	23 5	22 s	12 s
↓ Ø6 (R)	🖤 🐐 Ø5	<i>▶</i> Ø7	d8 €
29 s	17 s	15 s	19 s

# 2019 Saturday Afternoon Peak Hour - Average-Month Conditions 14: Route 1 & Route 152/Route 152

08/08/2019	9
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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL
Lane Configurations	ሻሻ	<u>†</u> †	r.	۳	<b>††</b>	ሻሻ		3	ተተ	r.		1
Traffic Volume (vph)	231	290	152	60	294	327	1	115	496	49	8	279
Future Volume (vph)	231	290	152	60	294	327	1	115	496	49	8	279
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width	12	12	10	14	12	11	12	11	12	10	12	12
Total Lost time (s)	4.0	4.0	4.0	4.0	4.0	4.0		4.0	4.0	2.0		4.0
Lane Util. Factor	0.97	0.95	1.00	1.00	0.95	0.88		1.00	0.95	1.00		1.00
Frt	1.00	1.00	0.85	1.00	1.00	0.85		1.00	1.00	0.85		1.00
Flt Protected	0.95	1.00	1.00	0.95	1.00	1.00		0.95	1.00	1.00		0.95
Satd. Flow (prot)	3502	3610	1507	1925	3610	2748		1745	3610	1507		1805
Flt Permitted	0.95	1.00	1.00	0.95	1.00	1.00		0.95	1.00	1.00		0.95
Satd. Flow (perm)	3502	3610	1507	1925	3610	2748		1745	3610	1507		1805
Peak-hour factor, PHF	0.93	0.93	0.93	0.90	0.90	0.90	0.91	0.91	0.91	0.91	0.92	0.92
Adj. Flow (vph)	248	312	163	67	327	363	1	126	545	54	9	303
RTOR Reduction (vph)	0	0	127	0	0	294	0	0	0	0	0	0
Lane Group Flow (vph)	248	312	36	67	327	69	0	127	545	54	0	312
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	Prot	NA	Free	Prot	Prot
Protected Phases	7	4		3	8		5	5	2		1	1
Permitted Phases			4			8				Free		
Actuated Green, G (s)	8.8	15.5	15.5	6.5	13.2	13.2		8.8	18.0	80.0		16.0
Effective Green, g (s)	10.8	17.5	17.5	8.5	15.2	15.2		10.8	20.0	80.0		18.0
Actuated g/C Ratio	0.14	0.22	0.22	0.11	0.19	0.19		0.14	0.25	1.00		0.22
Clearance Time (s)	6.0	6.0	6.0	6.0	6.0	6.0		6.0	6.0			6.0
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0			3.0
Lane Grp Cap (vph)	472	789	329	204	685	522		235	902	1507		406
v/s Ratio Prot	c0.07	c0.09		0.03	c0.09			0.07	c0.15			c0.17
v/s Ratio Perm			0.02			0.03				0.04		
v/c Ratio	0.53	0.40	0.11	0.33	0.48	0.13		0.54	0.60	0.04		0.77
Uniform Delay, d1	32.2	26.7	25.0	33.1	28.9	26.9		32.3	26.5	0.0		29.0
Progression Factor	0.92	0.91	1.88	1.00	1.00	1.00		1.00	1.00	1.00		1.00
Incremental Delay, d2	1.0	0.3	0.1	0.9	0.5	0.1		2.5	3.0	0.0		8.5
Delay (s)	30.7	24.7	47.1	34.1	29.4	27.0		34.8	29.5	0.0		37.5
Level of Service	С	С	D	С	С	С		С	С	А		D
Approach Delay (s)		31.8			28.7				28.2			
Approach LOS		С			С				С			
Intersection Summary				15.4		Nue 198	25.1	2 14	A Constant	1 213		
HCM 2000 Control Delay			29.0	Н	CM 2000	Level of	Service		С			
HCM 2000 Volume to Capa	acity ratio		0.63									
Actuated Cycle Length (s)			80.0	S	um of los	t time (s)			18.0			
Intersection Capacity Utiliz	ation		61.0%	IC	CU Level	of Service			В			
Analysis Period (min)			15									

# 2019 Saturday Afternoon Peak Hour - Average-Month Conditions 14: Route 1 & Route 152/Route 152

08/08/2019	ì
00/00/2013	1

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Movement	SBT	SBR	
Lana Configurations	<b>††</b>		
Traffic Volume (vph)	497	0	
Future Volume (vph)	497	0	
Ideal Flow (vphpl)	1900	1900	
Lane Width	12	12	
Total Lost time (s)	4.0		
Lane Util. Factor	0.95		
Frt	1.00		
FIt Protected	1.00		
Satd. Flow (prot)	3574		
FIt Permitted	1.00		
Satd. Flow (perm)	3574	and the state	
Peak-hour factor, PHF	0.92	0.92	
Adj. Flow (vph)	540	0	
RTOR Reduction (vph)	0	0	
Lane Group Flow (vph)	540	0	
Heavy Vehicles (%)	1%	0%	
Turn Type	NA	1000	
Protected Phases	6		
Permitted Phases			
Actuated Green, G (s)	25.2		
Effective Green, g (s)	27.2		
Actuated g/C Ratio	0.34		
Clearance Time (s)	6.0		
Vehicle Extension (s)	3.0		
Lane Grp Cap (vph)	1215	1.1.1.1.1.1.1	
v/s Ratio Prot	0.15		
v/s Ratio Perm			
v/c Ratio	0.44		
Uniform Delay, d1	20.5		
Progression Factor	1.00		
Incremental Delay, d2	1.2		
Delay (s)	21.7		
Level of Service	С		
Approach Delay (s)	27.5		
Approach LOS	С		
Intersection Summary	1944 - S.	- New York	

# 2019 Weekday Evening Peak Hour - Average-Month Conditions 13: Route 152 & Rte 1 SB Off-Ramp

08/08/2019

	_#	-	-	۲	6	1	
Lane Group	EBL	EBT	WBT	WBR	SWL	SWR	
Lane Configurations		<u>†</u> †	ተተ		ካካ	7	
Traffic Volume (vph)	0	649	372	0	16	227	
Future Volume (vph)	0	649	372	0	16	227	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Right Turn on Red	1000	1000	1000	Yes	1000	Yes	
Link Speed (mph)		30	30	103	30	100	
		1170	571		628		
Link Distance (ft)		26.6	13.0		14.3		
Travel Time (s)	0.05			0.07		0.94	
Peak Hour Factor	0.85	0.85	0.87	0.87	0.94		
Heavy Vehicles (%)	0%	1%	0%	0%	0%	0%	
Shared Lane Traffic (%)							
Lane Group Flow (vph)	0	764	428	0	17	241	
Turn Type		NA	NA		Prot	Perm	
Protected Phases		4	8		6		
Permitted Phases						6	
Detector Phase		4	8		6	6	
Switch Phase							
Minimum Initial (s)		4.0	4.0		4.0	4.0	
Minimum Split (s)		22.0	22.0		22.0	22.0	
Total Split (s)		70.0	70.0		30.0	30.0	
Total Split (%)		70.0%	70.0%		30.0%	30.0%	
Maximum Green (s)		64.0	64.0		24.0	24.0	
Yellow Time (s)		4.0	4.0		4.0	4.0	
All-Red Time (s)		2.0	2.0		2.0	2.0	
		-2.0	-2.0		-2.0	-2.0	
Lost Time Adjust (s)		4.0	4.0		4.0	4.0	
Total Lost Time (s)		4.0	4.0		4.0	4.0	
Lead/Lag							
Lead-Lag Optimize?		0.0	0.0		2.0	3.0	
Vehicle Extension (s)		3.0	3.0		3.0		
Recall Mode		C-Max	C-Max		None	None	
Walk Time (s)		5.0	5.0		5.0	5.0	
Flash Dont Walk (s)		11.0	11.0		11.0	11.0	
Pedestrian Calls (#/hr)		0	0		0	0	
v/c Ratio		0.26	0.14		0.05	0.64	
Control Delay		2.5	0.6		38.8	13.5	
Queue Delay		0.0	0.0		0.0	0.0	
Total Delay		2.5	0.6		38.8	13.5	
Queue Length 50th (ft)		35	1		5	0	
Queue Length 95th (ft)		76	11		14	67	
Internal Link Dist (ft)		1090	491		548		
Turn Bay Length (ft)							
Base Capacity (vph)		2932	2961		910	598	
Starvation Cap Reductn		0	0		0	0	
Spillback Cap Reductn		0	0		Ő	0 0	
		0	0		0	0	
Storage Cap Reductn		0.26	0.14		0.02	0.40	
Reduced v/c Ratio		0.20	0.14		0.02	0.40	
Intersection Summary	N 86214	1	10-10-4	21.0			
Area Type:	Other						
Cycle Length: 100							

Plainridge Park Casino BG Actuated Cycle Length: 100 Offset: 0 (0%), Referenced to phase 4:EBT and 8:WBT, Start of Yellow Natural Cycle: 45 Control Type: Actuated-Coordinated

Splits and Phases: 13: Route 152 & Rte 1 SB Off-Ramp

	→Ø4 (R)	
	70 s	
606	≠_Ø8 (R)	
30 s	70 s	

## 2019 Weekday Evening Peak Hour - Average-Month Conditions 13: Route 152 & Rte 1 SB Off-Ramp

08/08/2019

	_	-	-	۲	6	*	
Movement	EBL	EBT	WBT	WBR	SWL	SWR	
Lane Configurations		<u>†</u> †	ተተ		ሻሻ	7	
Traffic Volume (vph)	0	649	372	0	16	227	
Future Volume (vph)	0	649	372	0	16	227	
	1900	1900	1900	1900	1900	1900	
Total Lost time (s)		4.0	4.0		4.0	4.0	
Lane Util. Factor		0.95	0.95		0.97	1.00	
Frt		1.00	1.00		1.00	0.85	
Flt Protected		1.00	1.00		0.95	1.00	
Satd. Flow (prot)		3574	3610		3502	1615	
Flt Permitted		1.00	1.00		0.95	1.00	
Satd. Flow (perm)		3574	3610		3502	1615	
Peak-hour factor, PHF	0.85	0.85	0.87	0.87	0.94	0.94	
Adj. Flow (vph)	0.00	764	428	0	17	241	
RTOR Reduction (vph)	0	0	0	0	0	217	
Lane Group Flow (vph)	0	764	428	0	17	24	
Heavy Vehicles (%)	0%	1%	0%	0%	0%	0%	
Turn Type	070	NA	NA	0.10	Prot	Perm	
Protected Phases		4	8		6	1 onn	
Permitted Phases			U		Ū	6	
Actuated Green, G (s)		80.0	80.0		8.0	8.0	
Effective Green, g (s)		82.0	82.0		10.0	10.0	
Actuated g/C Ratio		0.82	0.82		0.10	0.10	
Clearance Time (s)		6.0	6.0		6.0	6.0	
Vehicle Extension (s)		3.0	3.0		3.0	3.0	
	-	2930	2960		350	161	
Lane Grp Cap (vph) v/s Ratio Prot		c0.21	0.12		0.00	101	
		0.21	0.12		0.00	c0.01	
v/s Ratio Perm		0.26	0.14		0.05	0.15	
v/c Ratio		2.1	1.8		40.7	41.1	
Uniform Delay, d1		1.00	0.23		1.00	1.00	
Progression Factor						0.4	
Incremental Delay, d2		0.2	0.1		0.1		
Delay (s)		2.3	0.5		40.8	41.5 D	
Level of Service		A	A		D	D	
Approach Delay (s)		2.3	0.5		41.5		
Approach LOS		A	А		D		
Intersection Summary		1. EU	al oltera,		119		
HCM 2000 Control Delay			8.7	Н	CM 2000	Level of Serv	vice A
HCM 2000 Volume to Capacity r	atio		0.25				
Actuated Cycle Length (s)			100.0	S	um of losi	t time (s)	8.0
Intersection Capacity Utilization			31.0%			of Service	А
Analysis Period (min)			15				
c Critical Lane Group							

## 2019 Saturday Afternoon Peak Hour - Average-Month Conditions 13: Route 152 & Rte 1 SB Off-Ramp

08/08/2019
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	_#	->	-	۲	6	*	
Lane Group	EBL	EBT	WBT	WBR	SWL	SWR	
Lane Configurations		<u>^</u>	ተተ		ሻሻ	1	
Traffic Volume (vph)	0	649	410	0	24	245	
Future Volume (vph)	0	649	410	0	24	245	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Right Turn on Red	1000	1000	1000	Yes		Yes	
Link Speed (mph)		30	30	100	30	100	
		1170	571		628		
Link Distance (ft)		26.6	13.0		14.3		
Travel Time (s)	0.02	0.93	0.95	0.95	0.96	0.96	
Peak Hour Factor	0.93				0.90	0.50	
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	
Shared Lane Traffic (%)			100	0	05	055	
Lane Group Flow (vph)	0	698	432	0	25	255	
Turn Type		NA	NA		Prot	Perm	
Protected Phases		4	8		6		
Permitted Phases						6	
Detector Phase		4	8		6	6	
Switch Phase							
Minimum Initial (s)		4.0	4.0		4.0	4.0	
Minimum Split (s)		22.0	22.0		22.0	22.0	
Total Split (s)		40.0	40.0		40.0	40.0	
Total Split (%)		50.0%	50.0%		50.0%	50.0%	
Maximum Green (s)		34.0	34.0		34.0	34.0	
Yellow Time (s)		4.0	4.0		4.0	4.0	
All-Red Time (s)		2.0	2.0		2.0	2.0	
Lost Time Adjust (s)		-2.0	-2.0		-2.0	-2.0	
		4.0	4.0		4.0	4.0	
Total Lost Time (s)		4.0	4.0		4.0	4.0	
Lead/Lag							
Lead-Lag Optimize?		0.0	0.0		2.0	2.0	
Vehicle Extension (s)		3.0	3.0		3.0	3.0	
Recall Mode		C-Max	C-Max		None	None	
Walk Time (s)		5.0	5.0		5.0	5.0	
Flash Dont Walk (s)		11.0	11.0		= 11.0	11.0	
Pedestrian Calls (#/hr)		0	0		0	0	
v/c Ratio		0.25	0.15		0.06	0.60	
Control Delay		3.0	11.8		29.3	10.8	
Queue Delay		0.0	0.0		0.0	0.0	
Total Delay		3.0	11.8		29.3	10.8	
Queue Length 50th (ft)		31	91		6	0	
Queue Length 95th (ft)		75	125		15	59	
Internal Link Dist (ft)		1090	491		548		
Turn Bay Length (ft)							
Base Capacity (vph)		2804	2804		1575	867	
Starvation Cap Reductn		2004	2004		0	0	
		0	0		0	0	
Spillback Cap Reductn			0		0	0	
Storage Cap Reductn		0.25	•		-	0.29	
Reduced v/c Ratio		0.25	0.15		0.02	0.29	
Intersection Summary	Other	100	1818			100 - ¹⁰⁴ - 1	
Area Type:							

Actuated Cycle Length: 80 Offset: 47 (59%), Referenced to phase 4:EBT and 8:WBT, Start of Yellow Natural Cycle: 45 Control Type: Actuated-Coordinated

#### Splits and Phases: 13: Route 152 & Rte 1 SB Off-Ramp

	→Ø4 (R)	Ψ
	40 s	
<b>6</b> 26	●Ø8 (R)	<b>Q</b>
40 s	40's 40's	

## 2019 Saturday Afternoon Peak Hour - Average-Month Conditions 13: Route 152 & Rte 1 SB Off-Ramp

08/08/2019

	_#	-	-	۲	6	*				
Movement	EBL	EBT	WBT	WBR	SWL	SWR				1.5
Lane Configurations		<u>†</u> †	<u>†</u> †		ኻኻ	1				
Traffic Volume (vph)	0	649	410	0	- 24	245				
Future Volume (vph)	0	649	410	0	24	245				
	900	1900	1900	1900	1900	1900				
Total Lost time (s)		4.0	4.0		4.0	4.0				
Lane Util. Factor		0.95	0.95		0.97	1.00				
Frt		1.00	1.00		1.00	0.85				
Flt Protected		1.00	1.00		0.95	1.00				
Satd. Flow (prot)		3610	3610		3502	1615				
Flt Permitted		1.00	1.00		0.95	1.00				
Satd. Flow (perm)		3610	3610		3502	1615				
	0.93	0.93	0.95	0.95	0.96	0.96				
Adj. Flow (vph)	0.33	698	432	0.00	25	255				
RTOR Reduction (vph)	0	030	-52	0	0	223				
Lane Group Flow (vph)	0	698	432	0	25	32				
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%				
	0 /0	NA	NA	070	Prot	Perm				
Turn Type		NA 4	8		6	reim				
Protected Phases		4	0		0	6				
Permitted Phases		60.1	60.1		7.9	7.9				
Actuated Green, G (s)		60.1	62.1		9.9	9.9				
Effective Green, g (s)		62.1			0.12	0.12				
Actuated g/C Ratio		0.78	0.78							
Clearance Time (s)		6.0	6.0		6.0	6.0				
Vehicle Extension (s)	1.1	3.0	3.0		3.0	3.0				
Lane Grp Cap (vph)		2802	2802		433	199				
v/s Ratio Prot		c0.19	0.12		0.01	0.00				
v/s Ratio Perm						c0.02				
v/c Ratio		0.25	0.15		0.06	0.16				
Uniform Delay, d1		2.5	2.3		30.9	31.3				
Progression Factor		1.00	4.51		1.00	1.00				
Incremental Delay, d2		0.2	0.1		0.1	0.4				
Delay (s)		2.7	10.4		31.0	31.7				
Level of Service		А	В		С	С				
Approach Delay (s)		2.7	10.4		31.6					
Approach LOS		А	В		С					
Intersection Summary			an bat	NR P	التدرانيا	644 <u>55</u> 7	i≢i Qana		1,23,4	
HCM 2000 Control Delay			10.8	Н	CM 2000	Level of Service		В		
HCM 2000 Volume to Capacity ra	atio		0.24							
Actuated Cycle Length (s)			80.0	S	um of losi	t time (s)		8.0		
Intersection Capacity Utilization			33.2%			of Service		A		
Analysis Period (min) c Critical Lane Group			15		5 20101					

Recreational vehicle PCE, ER

Fax:

Diverge Analysis BG Analyst: Agency/Co.: VAI Agency/Co.: VAL Date performed: 8/8/2019 Analysis time period: Weekday Evening Peak Freeway/Dir of Travel:Route 1 NBJunction:I-495 NB On-RampJurisdiction:MassDOTAnalysis Year:2019 Description: Plainridge Park Casino - 2019Traffic Monitoring _____Freeway Data_____ Diverge Type of analysis Number of lanes in freeway 2 55.0 mph 1346 vph Free-flow speed on freeway Volume on freeway Off Ramp Data Side of freeway Right Number of lanes in ramp Free-Flow speed on ramp 1 mph 35.0 vph 346 Volume on ramp 500 ft Length of first accel/decel lane Length of second accel/decel lane ft _____Adjacent Ramp Data (if one exists)_____ Yes 351 Does adjacent ramp exist? vph Volume on adjacent ramp Position of adjacent ramp Downstream Type of adjacent ramp On 500 ft Distance to adjacent ramp Conversion to pc/h Under Base Conditions FreewayRampAdjacent<br/>Ramp1346346351vp0.930.930.8736293101v222%000%LevelLevelLevel0.00%0.00%0.00mi0.00%1.51.51.51.21.21.2 Junction Components vph Volume, V (vph) Peak-hour factor, PHF Peak 15-min volume, v15 Trucks and buses Recreational vehicles Terrain type: Grade Length Trucks and buses PCE, ET

Heavy vehicle adjustm Driver population fac Flow rate, vp		0.990 1.00 1462	0.990 1.00 376	1.00	pcph	
	Estimation	of V12 Diver	ge Areas_			
L		quation 13-1	2 or 13-1	3)		
EQ P FD	= 1.000 Us	ing Equation	0			
v	= v + (v - v) R F R		pc/h			
	Capac	ity Checks				
v = v	Actual 1462	Maximum 4500		LOS F? No		
Fi F V = V - V FO F R	1086	4500		No		
v	376	2000	:	No		
R v or v 0 pc/h (Equation 13-14 or 13-17) 3 av34						
Is v or v > 2 3 av34	700 pc/h?	No				
Is v or v > 1 3 av34		No				
If yes, v = 1462 12A		(Equation	13-15, 13	-16, 13-18,	or 13-19)	
	_Flow Entering Actual					
V 1 2		4400	5	No		
12 Level of Service Determination (if not F)						
Density, $D = 4.252 + 0.0086 v - 0.009 L = 12.3 pc/mi/ln$						
R 12 D Level of service for ramp-freeway junction areas of influence B						
Speed Estimation						
Intermediate speed variable, D = 0.462 S						
Space mean speed in ramp influence area, $S = 49.0$ mph						
Space mean speed in o	uter lanes,		= N/A	mph		
Space mean speed for a	all vehicles,	-	49.0	mph		

Fax:

_____Diverge Analysis BG Analyst: Agency/Co.: Agency/Co.:VAIDate performed:8/8/2019Analysis time period:Saturday Afternoon Peak VAI Freeway/Dir of Travel:Saturday ArternooJunction:I-495 NB On-RampJurisdiction:MassDOTAnalysis Year:2019 Description: Plainridge Park Casino - 2019 Traffic Monitoring _____Freeway Data_____ Type of analysis Diverge Number of lanes in freeway 2 55.0 mph 1224 vph Free-flow speed on freeway Volume on freeway _____Off Ramp Data_____ Side of freeway Right Number of lanes in ramp Free-Flow speed on ramp 1 35.0 mph 409 vph Volume on ramp Length of first accel/decel lane 500 ft Length of second accel/decel lane ft Adjacent Ramp Data (if one exists) Yes 253 Does adjacent ramp exist? vph Volume on adjacent ramp Position of adjacent ramp Downstream On Type of adjacent ramp Distance to adjacent ramp 500 ft Conversion to pc/h Under Base Conditions Junction ComponentsFreewayRampAdjacent<br/>RampVolume, V (vph)1224409253vphPeak-hour factor, PHF0.940.940.92Peak 15-min volume, v1532610969vTrucks and buses111%Recreational vehicles000%Trucks and buses111%Grade0.00%0.00%0.00Length0.00%0.00%0.00Trucks and buses PCE, ET1.51.51.51.5Recreational vehicle PCE, ER1.21.21.21.2

Heavy vehicle adjustment, Driver population factor, Flow rate, vp		0.995 1.00 1309	0.995 1.00 437		pcph
	Estimation	of V12 Diverg	ge Areas		
L =	( ]	Equation 13-12	2 or 13-13	)	
EQ P = FD	1.000 U	sing Equation	0		
v = v	+ (v - v F R	) P = 1309 FD	pc/h		
	Capa	city Checks			
v = v	Actual 1309	Maximum 4500		OS F? O	
Fi F v = v - v	872	4500	N	0	
FO F R V	437	2000	N	0	
R v or v	0 pc/1	n (Equatio	on 13-14 o	r 13-17)	
3 av34 Is v or v > 2700	pc/h?	No			
3 av34 Is v or v > 1.5 v		No			
3 av34 If yes, v = 1309 12A	12	(Equation 2	13-15, 13-	16, 13-18,	or 13-19)
		Diverge Influ			
		Max Desirable 4400		Violation? No	
12 Level of	Service De	etermination	(if not F)		
Density, D	= 4.252 +	0.0086 v - 0. 12	.009 L D	= 11.0	pc/mi/ln
Level of service for ramp	-freeway j	unction areas	of influe	nce B	
	Speed 1	Estimation			
Intermediate speed variab	ole,	D = S	- 0.467		
Space mean speed in ramp	influence a	area, S =	= 48.9	mph	
Space mean speed in outer	lanes,	0	= N/A	mph	
Space mean speed for all	vehicles,	0 S =	= 48.9	mph	

Fax:

Merge Analysis BG Analyst: Agency/Co.: VAI Agency/Co.: VAI Date performed: 8/8/2019 Analysis time period: Weekday Evening Peak Freeway/Dir of Travel: Route 1 NB Junction: I-495 SB Off-Ramp to Rte 1 NB Jurisdiction: MassDOT Analysis Year: 2019 Description: Plainridge Park Casino - 2019 Traffic Monitoring _____Freeway Data_____ Merge Type of analysis Number of lanes in freeway 2 55.0 mph 872 vph Free-flow speed on freeway vph Volume on freeway On Ramp Data Side of freeway Right Number of lanes in ramp Free-flow speed on ramp 1 35.0 mph 474 vph Volume on ramp Length of first accel/decel lane 500 ft Length of second accel/decel lane ft Adjacent Ramp Data (if one exists) Yes 262 Does adjacent ramp exist? Volume on adjacent Ramp vph Upstream Position of adjacent Ramp Off Type of adjacent Ramp 500 ft Distance to adjacent Ramp Conversion to pc/h Under Base Conditions 

 Freeway
 Ramp
 Adjacent

 872
 474
 262
 vph

 0.96
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 0.96
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 < Junction Components Volume, V (vph) Peak-hour factor, PHF Peak 15-min volume, v15 Trucks and buses Recreational vehicles Terrain type: Grade Length Trucks and buses PCE, ET Recreational vehicle PCE, ER

Heavy vehicle adjustment, Driver population factor, Flow rate, vp		0.995 1.00 913		1.00	pcph	
	Estimation of	V12 Merge	Areas			
L = EQ	(Equ					
P = FM	1.000 Usin	lg Equation	0			
	(P) = 913 FM	pc/h				
	Capacit	y Checks				
V	Actual 1436	Maximum 4500		LOS F? No		
FO v or v	0 pc/h	(Equatio	n 13-14	or 13-17)		
$\begin{array}{ccc} 3 & av34 \\ \text{Is } v & \text{or } v & > 2700 \\ \end{array}$	pc/h?	No				
3 av34 Is v or v > 1.5 v		No				
3 av34 If yes, v = 913 12A	12	(Equation 1	3-15, 13	-16, 13-18,	or 13-19)	
Act	low Entering ual Ma 6 46	x Desirable				
	Service Dete	ermination (	if not F	')		
	R	12	A		pc/mi/ln	
Level of service for ramp-freeway junction areas of influence B						
Speed Estimation						
Intermediate speed variab	le,	M = S	0.302			
Space mean speed in ramp influence area,			51.1	mph		
Space mean speed in outer lanes,			N/A	mph		
Space mean speed for all	vehicles,	0 S =	51.1	mph		

Fax:

E-mail:							
	Merge	Anal	ysis				
Analyst: Agency/Co.: Date performed: Analysis time period: Freeway/Dir of Travel: Junction: Jurisdiction: Analysis Year: Description: Plainridge	Saturday After Route 1 NB I-495 SB Off-R MassDOT 2019 Park Casino -	amp to 2019	o Rte 1 Traffi		oring		
	Free	way Da	ata				
Type of analysis Number of lanes in freev Free-flow speed on freev Volume on freeway			Merge 2 55.0 887		mph vph		
	On R	amp Da	ata				
Side of freeway Number of lanes in ramp Free-flow speed on ramp Volume on ramp Length of first accel/decel lane Length of second accel/decel lane			Right 1 35.0 337 500		mph vph ft ft		
	_Adjacent Ramp	Data	(if on	e exists	5)		
Does adjacent ramp exist Volume on adjacent Ramp Position of adjacent Ram Type of adjacent Ramp Distance to adjacent Ram	qu		Yes 306 Upstre Off 500	am	vph ft		
Con	version to pc/h	Unde:	r Base	Conditio	ons		
Junction Components	<u>k</u>	Free		Ramp		Adjace Ramp	
Volume, V (vph) Peak-hour factor, PHF Peak 15-min volume, v15 Trucks and buses Recreational vehicles Terrain type: Grade Length Trucks and buses PCE, ET Recreational vehicle PCB		887 0.94 236 0 0 Leve: 1.5 1.2	L % mi	337 0.89 95 1 0 Level 1.5 1.2	% mi	306 0.94 81 0 Level 1.5 1.2	vph v % % mi

Heavy vehicle adjustment, fHV Driver population factor, fP Flow rate, vp			1.000 1.00 326	pcph		
Estima	tion of V12 Mer	ge Areas				
FM	(Equation 13 Using Equati = 944 pc/h	on O				
	Capacity Checks					
v 1325	al Maxim 4500		DS F?			
3 av34	pc/h (Equa No	tion 13-14 or	r 13-17)			
Is v or v > 2700 pc/h? 3 av34 Is v or v > 1.5 v /2 3 av34 12 If yes, v = 944	No	n 13-15, 13-1	16, 13-18,	or 13-19)		
12A Flow En Actual v 1325 R12	tering Merge In Max Desira 4600 ce Determinatio	ble T	/iolation? No			
Density, D = $5.475 + 0.00734 v + 0.0078 v - 0.00627 L = 12.5 pc/mi/ln$ R R 12 A Level of service for ramp-freeway junction areas of influence B						
Speed Estimation						
Intermediate speed variable, M = 0.301 S						
Space mean speed in ramp influe	nce area, S		nph			
Space mean speed in outer lanes			nph			
Space mean speed for all vehicle	es, S	0	nph			

Fax:

_____Diverge Analysis_____ BG Analyst: Agency/Co.: VAI Agency/Co.: VAI Date performed: 8/8/2019 Analysis time period: Weekday Evening Peak Freeway/Dir of Travel: Route 1 NB Junction: I-495 SB On-Ramp Jurisdiction: MassDOT Analysis Year: 2019 Description: Plainridge Park Casino - 2019 Traffic Monitoring Freeway Data Diverge Type of analysis 2 55.0 mph 1134 vph Number of lanes in freeway Free-flow speed on freeway Volume on freeway Off Ramp Data_____ Right Side of freeway Number of lanes in ramp Free-Flow speed on ramp 1 mph 35.0 vph ft 262 Volume on ramp Length of first accel/decel lane 500 ft Length of second accel/decel lane Adjacent Ramp Data (if one exists)_____ Yes 474 Does adjacent ramp exist? vph Volume on adjacent ramp Downstream Position of adjacent ramp Type of adjacent ramp On 500 ft Distance to adjacent ramp Conversion to pc/h Under Base Conditions Junction ComponentsFreewayRampAdjacent<br/>RampVolume, V (vph)1134262474vpPeak-hour factor, PHF0.960.960.91Peak 15-min volume, v1529568130vTrucks and buses215%Recreational vehicles000%Trucks and buses215%Grade0.00%0.00%0.00Length0.00%0.00%0.00Trucks and buses PCE, ET1.51.51.51.5Recreational vehicle PCE, ER1.21.21.2 vph

Heavy vehicle adjustm Driver population fac Flow rate, vp		0.990 1.00 1193	0.995 1.00 274	0.976 1.00 534	pcph	
	Estimatior	n of V12 Diver	ge Areas			
L EQ		(Equation 13-1	2 or 13-13	)		
	= 1.000 U	Jsing Equation	0			
v	= v + (v - v R F F		pc/h			
	Capa	acity Checks				
v = v Fi F	Actual 1193	Maximum 4500	L L	OS F? O		
v = v - v	919	4500	N	0		
FO F R V P	274	2000	N	0		
R v or v	0 pc/	'h (Equati	on 13-14 o	r 13-17)		
$\begin{array}{ccc} 3 & av34 \\ Is & v & or & v & > 2 \\ \end{array}$	700 pc/h?	No				
3 av34 Is v or v > 1		No				
3 av34 If yes, v = 1193 12A	LΖ	(Equation	13-15, 13-	16, 13-18,	or 13-19)	
		g Diverge Infl Max Desirabl 4400	e			
12			(if not F)			
Level of Service Determination (if not F) Density, $D = 4.252 + 0.0086 \text{ v} - 0.009 \text{ L} = 10.0+ \text{ pc/mi/ln}$						
Level of service for ramp-freeway junction areas of influence B						
Speed Estimation						
Intermediate speed variable, D = 0.453 S						
Space mean speed in r	amp influence		= 49.1	mph		
Space mean speed in o	uter lanes,		= N/A	mph		
Space mean speed for	all vehicles,	0	= 49.1	mph		

E-mail:							
	Dive	rge Anal	lysis_				
Analyst: Agency/Co.: Date performed: Analysis time period: Freeway/Dir of Travel: Junction: Jurisdiction: Analysis Year: Description: Plainridge	Saturday Afte: Route 1 NB I-495 SB On-Ra MassDOT 2019	amp		c Monit	oring		
	Free	eway Dat	:a				
Type of analysis Number of lanes in free Free-flow speed on free Volume on freeway			Diverg 2 55.0 1193		mph vph		
	Off ]	Ramp Dat	:a				
Side of freeway Number of lanes in ramp Free-Flow speed on ramp Volume on ramp Length of first accel/decel lane Length of second accel/decel lane		133	306 500		mph vph ft ft		
	Adjacent Ram	p Data	(if on	e exist	s)		
Does adjacent ramp exist? Volume on adjacent ramp Position of adjacent ramp Type of adjacent ramp Distance to adjacent ramp			Yes 337 Downstream On 500		vph ft		
Con	version to pc/l	h Under	Base	Conditi	ons		
Junction Components Volume, V (vph) Peak-hour factor, PHF Peak 15-min volume, v15 Trucks and buses Recreational vehicles Terrain type: Grade Length Trucks and buses PCE, E	ľ	Freewa 1193 0.94 317 1 0 Level 0.00 0.00 1.5	-	Ramp 306 0.94 81 1 0 Level 0.00 0.00 1.5	% mi	Adjace Ramp 337 0.89 95 1 0 Level 0.00 0.00 1.5	nt vph v % % mi

Heavy vehicle adjustment, Driver population factor, Flow rate, vp		0.995 1.00 1275	0.995 1.00 327				
	Estimation of	V12 Diverg	e Areas				
L =	(Equ	ation 13-12	or 13-1	13)			
	1.000 Usin	g Equation	0				
	+ (v - v) P $F R$		pc/h				
2	Capacit	y Checks					
v = v Fi F	Actual 1275			LOS F? No			
v = v - v FO F R	948	4500		No			
V	327	2000		No			
R v or v	0 pc/h	(Equatio	n 13-14	or 13-17)			
$\begin{array}{ccc} 3 & av34 \\ \text{Is } v & \text{or } v & > 2700 \\ \end{array}$	pc/h?	No					
$\begin{array}{ccc} 3 & av34 \\ \text{Is } v & \text{or } v & > 1.5 v \end{array}$		No					
3 av34 If yes, v = 1275 12A		(Equation 1	3-15, 13	3-16, 13-18,	or 13-19)		
Act v 127	w Entering Di- ual Ma: 5 44	x Desirable 00		Violation? No			
	Service Dete:						
Density, D R Level of service for ramp	•	12	D		bc/wr/ru		
Speed Estimation							
Intermediate speed variab			0.457				
Space mean speed in ramp	influence area	s =	49.1	mph			
Space mean speed in outer	lanes,	R S =	N/A	mph			
Space mean speed for all	vehicles,	0 S =	49.1	mph			

Fax:

Diverge Analysis BG Analyst: Agency/Co.: VAI Agency/Co.: VAI Date performed: 8/8/2019 Analysis time period: Weekday Evening Peak Freeway/Dir of Travel: Route 1 SB Junction:I-495 NB On-RampJurisdiction:MassDOTAnalysis Year:2019 Description: Plainridge Park Casino - 2019 Traffic Monitoring Freeway Data_____ Diverge Type of analysis Number of lanes in freeway 2 55.0 mph 2183 vph Free-flow speed on freeway Volume on freeway Off Ramp Data Side of freeway Right Number of lanes in ramp Free-Flow speed on ramp 1 35.0 mph 671 vph Volume on ramp Length of first accel/decel lane 500 ft Length of second accel/decel lane ft _____Adjacent Ramp Data (if one exists) Yes 371 Does adjacent ramp exist? vph Volume on adjacent ramp Position of adjacent ramp Downstream On Type of adjacent ramp 500 ft Distance to adjacent ramp Conversion to pc/h Under Base Conditions Junction ComponentsFreewayRampAdjacent<br/>RampVolume, V (vph)2183671371vrPeak-hour factor, PHF0.910.910.910.91Peak 15-min volume, v15600184102vTrucks and buses230%Recreational vehicles000%Grade0.00%0.00%0.00Length0.00%0.00%0.00Trucks and buses PCE, ET1.51.51.5Recreational vehicle PCE, ER1.21.21.2 371 vph

Heavy vehicle adjustment, Driver population factor, Flow rate, vp		0.990 1.00 2423	0.985 1.00 748	1.00	pcph
	Estimation of	V12 Diverg	e Areas_		
L =	(Equ	ation 13-12	or 13-1	.3)	
	1.000 Usin	g Equation	0		
	+ (v - v ) P F R		pc/h		
	Capacit	y Checks			
v = v Fi F	Actual 2423	Maximum 4500		LOS F? No	
$\nabla = \nabla - \nabla$	1675	4500		No	
FO F R V	748	2000		No	
R V or V	0 pc/h	(Equatio	on 13-14	or 13-17)	
$\begin{array}{ccc} 3 & av34 \\ \text{Is } v & \text{or } v & > 2700 \end{array}$	pc/h?	No			
3 av34 Is v or v > 1.5 v		No			
3 av34 If yes, v = 2423 12A		(Equation 1	3-15, 13	-16, 13-18,	or 13-19)
Act v 242 12	w Entering Di ual Ma 3 44 Service Dete	x Desirable 00		Violation? No	
	= 4.252 + 0.0				
Level of service for ramp		12	D		T. C. , 1007 ( 111
	Speed Est	imation			
Intermediate speed variab	le,	D =	0.495		
Space mean speed in ramp	influence are	a, S =	48.6	mph	
Space mean speed in outer	lanes,	s =	N/A	mph	
Space mean speed for all		0 S =	48.6	mph	

E-mail:	area Aralisat			
Dive	erge Analysi:	5		-11-1-1-N
Analyst:BGAgency/Co.:VAIDate performed:8/8/2019Analysis time period:Saturday AfterFreeway/Dir of Travel:Route 1 SBJunction:I-495 NB On-FJurisdiction:MassDOTAnalysis Year:2019Description:Plainridge Park Casino	Ramp	fic Monit	oring	
Fre	eeway Data			 
Type of analysis Number of lanes in freeway Free-flow speed on freeway Volume on freeway	Dive: 2 55.0 1215	-	mph vph	
Off	Ramp Data			 
Side of freeway Number of lanes in ramp Free-Flow speed on ramp Volume on ramp Length of first accel/decel lane Length of second accel/decel lane	1 35.0	35.0 420		
Adjacent Ram	np Data (if d	one exist.	s)	 
Does adjacent ramp exist? Volume on adjacent ramp Position of adjacent ramp Type of adjacent ramp Distance to adjacent ramp	Yes 307 Downs On 500	stream	vph ft	
Conversion to pc/	/h Under Base	e Conditi	ons	
Junction Components Volume, V (vph) Peak-hour factor, PHF Peak 15-min volume, v15 Trucks and buses Recreational vehicles Terrain type: Grade Length Trucks and buses PCE, ET Recreational vehicle PCE, ER	Freeway 1215 0.91 334 1 0 Level 0.00 % 0.00 mi 1.5 1.2		° mi	vph v % %

Heavy vehicle adjustment, Driver population factor, Flow rate, vp		0.995 1.00 1342	0.995 1.00 464		pcph
2	_Estimation of	E V12 Diver	ge Areas		
L = EQ	(Equ	ation 13-12	2 or 13-	13)	
	1.000 Usir	ng Equation	0		
v = v	+ (v = v ) E R F R		pc/h		
	Capacit	cy Checks			
v = v Fi F	Actual 1342	Maximum 4500		LOS F? No	
v = v - v FO F R	878	4500		No	
V	464	2000		No	
R v or v 3 av34	0 pc/h	(Equatio	on 13-14	or 13-17)	
Is v or v > 2700 3 av34	pc/h?	No			
$\begin{array}{cccc}  & 3 & av34 \\  & \text{Is } v & \text{or } v & > 1.5 \\  & 3 & av34 \\ \end{array}$		No			
If yes, v = 1342 12A	12	(Equation 1	13-15, 1	3-16, 13-18,	or 13-19)
	ow Entering Di cual Ma				
v 134		100		No	
12 Level o:	f Service Dete	ermination	(if not	F)	
Density, D	= 4.252 + 0.0	)086 v - 0. 12	.009 L D	= 11.3	pc/mi/ln
Level of service for ramp	o-freeway junc		2	uence B	
	Speed Est	imation			
Intermediate speed variab	ole,		= 0.470		
Space mean speed in ramp	influence are		= 48.9	mph	
Space mean speed in outer	r lanes,		= N/A	mph	
Space mean speed for all	vehicles,	0 S =	= 48.9	mph	

	Merge	e Analy	sis				
Agency/Co.: V Date performed: 8 Analysis time period: W Freeway/Dir of Travel: R Junction: I	oute 1 SB -495 NB Off-F assDOT 019	Ramp to	Route		oring		
	Free	way Da	ta				
Type of analysis Number of lanes in freewa Free-flow speed on freewa Volume on freeway			Merge 2 55.0 1512		mph vph		
	On F	amp Da	ta				
Side of freeway Number of lanes in ramp Free-flow speed on ramp Volume on ramp Length of first accel/dec Length of second accel/de			Right 1 35.0 371 500 (if on	e exist:	mph vph ft ft		
Does adjacent ramp exist? Volume on adjacent Ramp Position of adjacent Ramp Type of adjacent Ramp Distance to adjacent Ramp			Yes 671 Upstre Off 500		vph ft		
Conve	rsion to pc/h	Under	Base	Conditio	ons		
Junction Components Volume, V (vph) Peak-hour factor, PHF Peak 15-min volume, v15 Trucks and buses Recreational vehicles Terrain type: Grade Length Trucks and buses PCE, ET Recreational vehicle PCE,	ΕB	Freew 1512 0.91 415 3 0 Level 1.5 1.2	-	Ramp 371 0.91 102 0 0 Level 1.5 1.2	% mi	Adjacer Ramp 671 0.91 184 1 0 Level 1.5 1.2	nt vph v % % mi

Driver population factor, fP 1.0		
Estimation of V12	Merge Areas	
L = (Equatio EQ P = 1.000 Using Eq FM v = v (P) = 1686 12 F FM		7)
Capacity Ch	ecks	
v Actual M FO	aximum 500	LOS F? No
vorv 0 pc/h (	Equation 13-14	l or 13-17)
3 av34 Is v or v > 2700 pc/h? N	0	
3 av34 Is v or v > 1.5 v /2 N	0	
3 av34 12 If yes, v = 1686 (Equ 12A	ation 13-15, 1	.3-16, 13-18, or 13-19)
Flow Entering Merg Actual Max De v 2094 4600 R12 Level of Service Determin	sirable	Violation? No
Density, D = $5.475 + 0.00734 v + 0.0078 v$ R R Level of service for ramp-freeway junction	12	A
Speed Estimat	ion	
Intermediate speed variable,	M = 0.318 S	
Space mean speed in ramp influence area,	S = 50.9	mph
Space mean speed in outer lanes,	S = N/A	mph
Space mean speed for all vehicles,	S = 50.9	mph

	Merge	e Analy	sis				
Analyst: Agency/Co.: Date performed: Analysis time period: Freeway/Dir of Travel: Junction: Jurisdiction: Analysis Year: Description: Plainridge	MassDOT 2019	kamp to	ROULE		oring	ſ	
	Free	eway Da	ta				
Type of analysis Number of lanes in freev Free-flow speed on freev Volume on freeway			Merge 2 55.0 795		mph vph		
	On F	amp Da	ta				
Side of freeway Number of lanes in ramp Free-flow speed on ramp Volume on ramp Length of first accel/de Length of second accel/de			Right 1 35.0 301 500		mph vph ft ft		
	Adjacent Ramp	Data	(if on	e exist:	5)		
Does adjacent ramp exist Volume on adjacent Ramp Position of adjacent Rar Type of adjacent Ramp Distance to adjacent Rar	qn		Yes 420 Upstre Off 500	am	vph ft		
Cont	version to pc/h	Under	Base	Conditio	ons		
Junction Components Volume, V (vph) Peak-hour factor, PHF Peak 15-min volume, v15 Trucks and buses Recreational vehicles Terrain type: Grade Length Trucks and buses PCE, ET Recreational vehicle PCE		Freew. 795 0.91 218 1 0 Level 1.5 1.2	-	Ramp 301 0.95 79 0 0 Level 1.5 1.2	% mi	Adjacen Ramp 420 0.91 115 2 0 Level 1.5 1.2	nt vph % % mi

	0.995 1.00 878	1.000 1.00 317	0.990 1.00 466	pcph
Estimation of	V12 Merge	Areas		
EQ P = 1.000 Using FM v = v (P ) = 878	_			
12 F FM Capacity	/ Checks			
Actual		L( N(	DS F?	
v or v 0 pc/h 3 av34 Is v or v > 2700 pc/h?	(Equatic No	on 13-14 o:	r 13-17)	
3 $av34$ Is v or v > 1.5 v /2 3 $av34$ 12 If yes, v = 878 12A	No Equation 1	.3-15, 13-3	16, 13-18, c	or 13-19)
Flow Entering M Actual Max v 1195 460 R12 Level of Service Deter	Desirable 00	· · · · · · · · · · · · · · · · · · ·	Violation? No	
Density, D = $5.475 + 0.00734 v + 0.007$ R R Level of service for ramp-freeway junct	'8 v - 0. 12	00627 L A	= 11.5	pc/mi/ln
Speed Esti	mation			
Intermediate speed variable,		0.299		
Space mean speed in ramp influence area		51.1 r	nph	
Space mean speed in outer lanes,		N/A I	nph	
Space mean speed for all vehicles,	S =	51.1 r	nph	

Fax:

_____Diverge Analysis_____ BG Analyst: Agency/Co.: VAI Agency/Co.:VAIDate performed:8/8/2019Analysis time period:Weekday Evening Peak Freeway/Dir of Travel: Route 1 SB Junction:I-495 SB On-RampJurisdiction:MassDOTAnalysis Year:2019 Description: Plainridge Park Casino - 2019 Traffic Monitoring Freeway Data Type of analysis Diverge Number of lanes in freeway 2 Free-flow speed on freeway 55.0 mph 1883 vph Volume on freeway vph Off Ramp Data_____ Right Side of freeway Number of lanes in ramp Free-Flow speed on ramp 1 mph 35.0 608 vph Volume on ramp ft Length of first accel/decel lane 500 Length of second accel/decel lane ft Adjacent Ramp Data (if one exists) Yes 442 vph Downstream Does adjacent ramp exist? Volume on adjacent ramp Position of adjacent ramp Off Type of adjacent ramp ft Distance to adjacent ramp 500 Conversion to pc/h Under Base Conditions_____ 

 reeway
 Ramp
 Adjacent

 Ramp
 Ramp
 Ramp

 Peak-hour factor, PHF
 0.96
 0.96
 0.83

 Peak 15-min volume, v15
 490
 158
 133
 v

 Trucks and buses
 1
 2
 1
 %

 Recreational vehicles
 0
 0
 0
 %

 Trucks and buses
 1
 2
 1
 %

 Recreational vehicles
 0
 0
 %
 0.00
 %

 Grade
 0.00
 0.00
 %
 0.00
 %
 0.00
 %

 Length
 0.00
 mi
 0.00
 mi
 0.00
 mi
 0.00
 mi

 Trucks and buses PCE, ET
 1.5
 1.5
 1.5
 1.5
 1.5
 1.5

 Recreational vehicle PCE, ER
 1.2
 1.2
 1.2
 1.2
 1.2

 vph

Heavy vehicle adjustment, Driver population factor, Flow rate, vp		0.995 1.00 1971	0.990 1.00 640	1.00	
F	Estimation of	V12 Diverg	e Areas		
L =	(Equa	ation 13-12	or 13-	13)	
	1.000 Using	g Equation	0		
	+ (v - v) P F R 1		pc/h		
	Capacity	y Checks			
v = v	Actual 1971	Maximum 4500		LOS F? No	
Fi F v = v - v	1331	4500		No	
FO F R V	640	2000		No	
R v or v	0 pc/h	(Equatio	n 13-14	or 13-17)	
3 av34 Is v or v > 2700 p	oc/h?	No			
3 av34 Is v or v > 1.5 v		No			
3 av34 1 If yes, v = 1971 12A		(Equation 1	3-15, 13	3-16, 13-18,	or 13-19)
	Entering Div				
v 1971	al Max 44(			Violation? No	
12 Level of	Service Deter	rmination (	if not 1	E )	
Density, D =	= 4.252 + 0.00		009 L_	= 16.7	pc/mi/ln
R Level of service for ramp-	freeway junct	12 tion areas	D of influ	lence B	
	Speed Est	imation			
Intermediate speed variabl	.e,		0.486		
Space mean speed in ramp i	nfluence area	s =	48.7	mph	
Space mean speed in outer	lanes,	R S =	N/A	mph	
Space mean speed for all v	ehicles,	0 S =	48.7	mph	

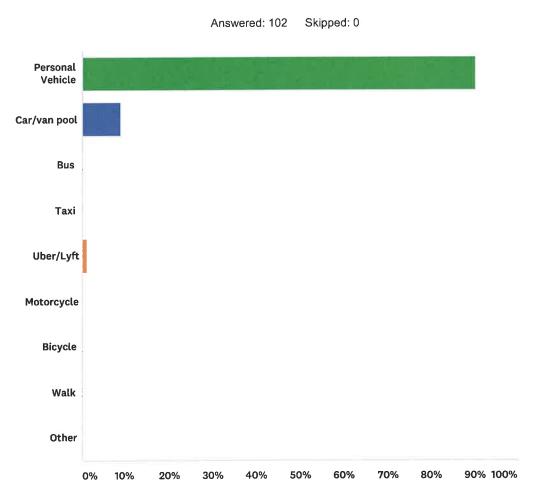
Fax:

_____Diverge Analysis_____ BG Analyst: Agency/Co.: VAI Agency/Co.: VAL Date performed: 8/8/2019 Analysis time period: Saturday Afternoon Peak Freeway/Dir of Travel: Route 1 SB Junction:I-495 SHJurisdiction:MassDOTAnalysis Year:2019 I-495 SB On-Ramp Description: Plainridge Park Casino - 2019 Traffic Monitoring Freeway Data_____ Type of analysis Diverge Number of lanes in freeway 2 55.0 mph 1102 vph Free-flow speed on freeway Volume on freeway Off Ramp Data_____ Side of freeway Right Number of lanes in ramp 1 mph Free-Flow speed on ramp 35.0 221 vph Volume on ramp ft Length of first accel/decel lane 500 Length of second accel/decel lane ft Adjacent Ramp Data (if one exists) Yes 370 Does adjacent ramp exist? vph Volume on adjacent ramp Position of adjacent ramp Downstream Type of adjacent ramp On ft Distance to adjacent ramp 500 Conversion to pc/h Under Base Conditions Junction ComponentsFreewayRampAdjacent<br/>RampVolume, V (vph)1102221370vpPeak-hour factor, PHF0.880.880.90Peak 15-min volume, v1531363103vTrucks and buses111%Recreational vehicles000%Grade0.00%0.00%Length0.00%0.00%Trucks and buses PCE, ET1.51.51.5Recreational vehicle PCE, ER1.21.21.2 vph

Heavy vehicle adjustment, Driver population factor, Flow rate, vp		0.995 1.00 1259	0.995 1.00 252	1.00	pcph
I	Estimation of	V12 Diverge	e Areas_		
L =	(Equ	ation 13-12	or 13-1	L3)	
EQ P = FD	1.000 Usin	g Equation	0		
v = v	+ (v - v) P F R		pc/h		
New York, and the state of the	Capacit	y Checks			
v = v Fi F	Actual 1259	Maximum 4500		LOS F? No	
v = v - v FO F R	1007	4500		No	
V	252	2000		No	
R V Or V	0 pc/h	(Equation	n 13-14	or 13-17)	
$\begin{array}{ccc} 3 & av34 \\ \text{Is } v & \text{or } v & > 2700 \text{ g} \end{array}$	oc/h?	No			
3 av34 Is v or v > 1.5 v 3 av34		No			
If yes, v = 1259 12A	12	(Equation 1	3-15, 13	3-16, 13-18,	or 13-19)
	v Entering Di				
v 1259	ual Ma 9 44	00		No	
12 Level of	Service Dete	ermination (:	if not E	·?)	
Density, D =	= 4.252 + 0.0			= 10.6	pc/mi/ln
R Level of service for ramp-	-freeway junc	12 tion areas o	D of influ	lence B	
	Speed Est	imation			
Intermediate speed variabl	le,	D = S	0.451		
Space mean speed in ramp i	influence are		49.1	mph	
Space mean speed in outer	lanes,		N/A	mph	
Space mean speed for all v	vehicles,	0	49.1	mph	

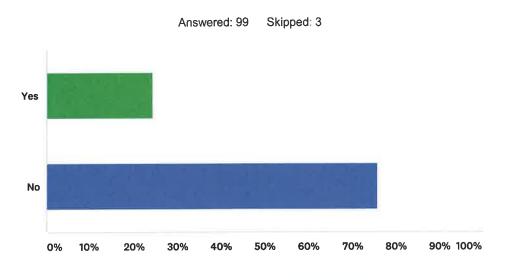
#### EMPLOYEE AND PATRON TRAVEL MODE SURVEY

### Q1 What transportation do you utilize when you visit Plainridge Park Casino?



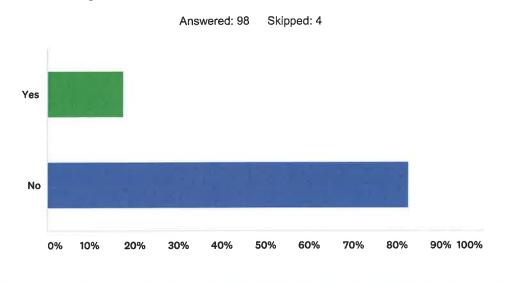
ANSWER CHOICES	RESPONSES	
Personal Vehicle	90.20%	92
Car/van pool	8.82%	9
Bus	0.00%	0
Taxi	0.00%	0
Uber/Lyft	0.98%	1
Motorcycle	0.00%	0
Bicycle	0.00%	0
Walk	0.00%	0
Other	0.00%	0
TOTAL		102

# Q2 Are you aware of public transportation and car/vanpool options that are available?



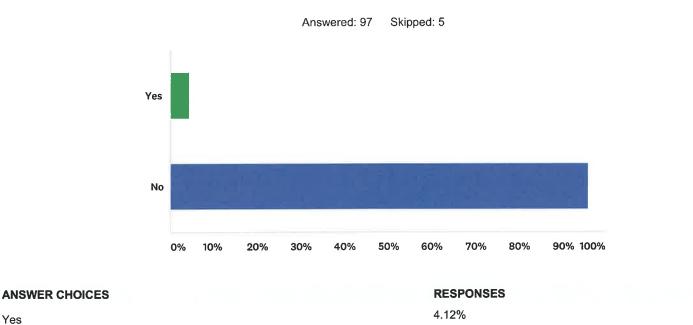
ANSWER CHOICES	RESPONSES	
Yes	24.24%	24
No	75.76%	75
TOTAL		99

# Q3 Would you use public transportation or a shuttle from a secure designated pick-up area or bus terminal?



ANSWER CHOICES	RESPONSES	
Yes	17.35%	17
No	82.65%	81
TOTAL		98

### Q4 Would you walk or bicycle to Plainridge if sidewalks and bicycle lanes were available?



95.88%

4

93

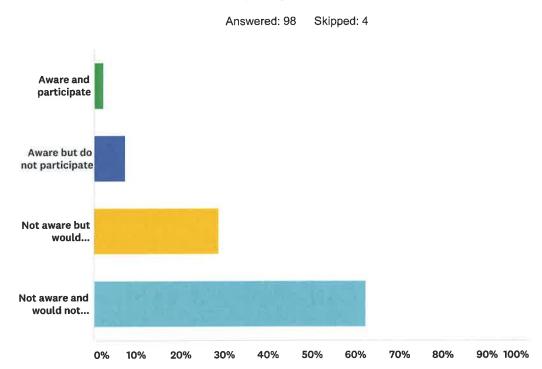
97

Yes No

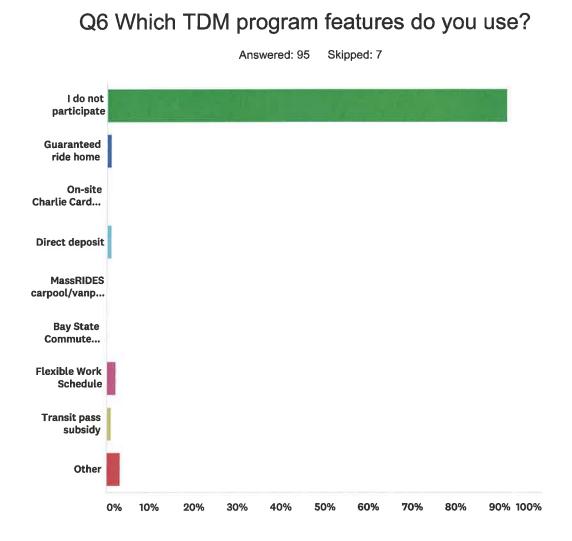
TOTAL

4/6

# Q5 Are you aware of and do you participate in the corporate TDM program?

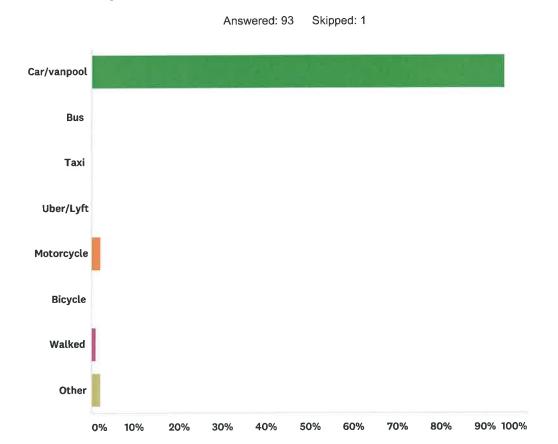


ANSWER CHOICES	RESPONSES	
Aware and participate	2.04%	2
Aware but do not participate	7.14%	7
Not aware but would participate	28.57%	28
Not aware and would not participate	62.24%	61
TOTAL		98



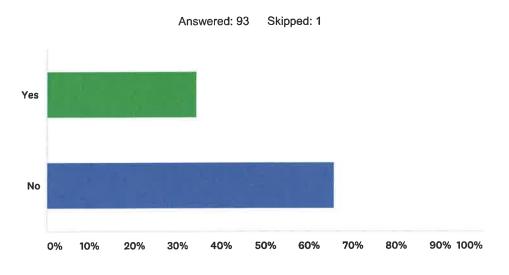
ANSWER CHOICES	RESPONSES	
I do not participate	91.58%	87
Guaranteed ride home	1.05%	1
On-site Charlie Card sales	0.00%	0
Direct deposit	1.05%	1
MassRIDES carpool/vanpool matching	0.00%	0
Bay State Commute (NuRide) program	0.00%	0
Flexible Work Schedule	2.11%	2
Transit pass subsidy	1.05%	1
Other	3.16%	3
TOTAL		95

### Q1 How do you commute to work at Plainridge Park Casino?



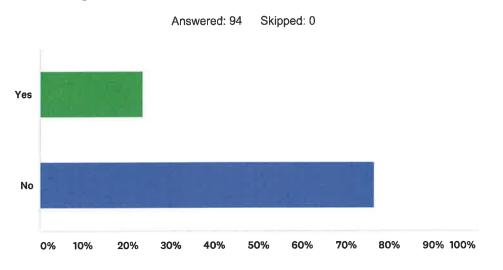
ANSWER CHOICES	RESPONSES	
Car/vanpool	94.62%	88
Bus	0.00%	0
Taxi	0.00%	0
Uber/Lyft	0.00%	0
Motorcycle	2.15%	2
Bicycle	0.00%	0
Walked	1.08%	1
Other	2.15%	2
TOTAL		93

# Q2 Are you aware of public transportation and car/vanpool options that are available?



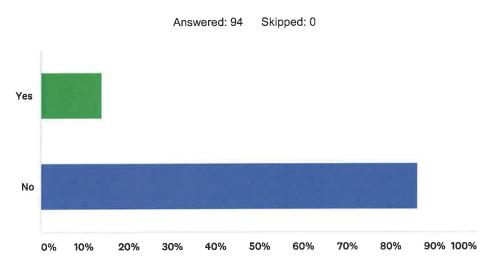
ANSWER CHOICES	RESPONSES	
Yes	34.41%	32
No	65.59%	61
TOTAL		93

# Q3 Would you use public transportation or a shuttle from a secure designated pick-up area or bus terminal?



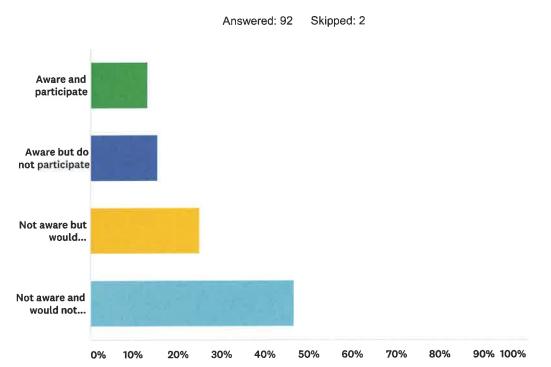
ANSWER CHOICES	RESPONSES	
Yes	23.40%	22
No	76.60%	72
TOTAL		94

### Q4 Would you walk or bicycle to Plainridge if sidewalks and bicycle lanes were available?

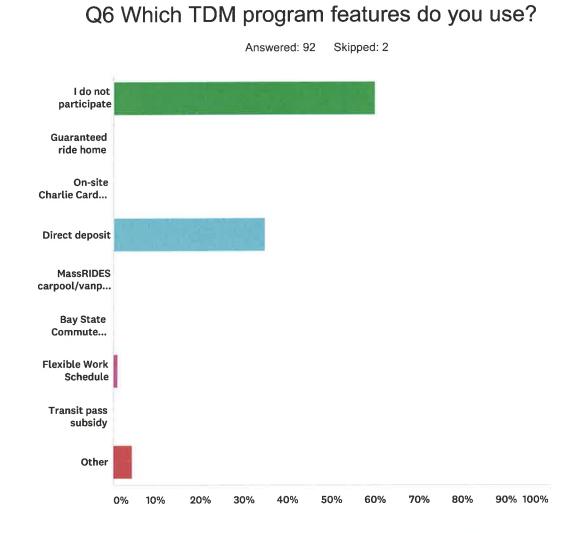


ANSWER CHOICES	RESPONSES	
Yes	13.83%	13
No	86.17%	81
TOTAL		94

### Q5 Are you aware of and do you participate in the corporate TDM program?



ANSWER CHOICES	RESPONSES	
Aware and participate	13.04%	12
Aware but do not participate	15.22%	14
Not aware but would participate	25.00%	23
Not aware and would not participate	46.74%	43
TOTAL		92



ANSWER CHOICES	RESPONSES	
I do not participate	59.78%	55
Guaranteed ride home	0.00%	0
On-site Charlie Card sales	0.00%	0
Direct deposit	34.78%	32
MassRIDES carpool/vanpool matching	0.00%	0
Bay State Commute (NuRide) program	0.00%	0
Flexible Work Schedule	1.09%	1
Transit pass subsidy	0.00%	0
Other	4.35%	4
TOTAL		92

TOTAL