

APPENDIX 41(B)

LOCAL IMPACT REPORT, ENGINEERING REPORTS, AND TRAFFIC STUDIES
(Continued)

Attached please find additional documentation which further addresses the local impact of the proposed Mason-Dixon Resort & Casino ("MDRC") project development:

- Exhibit "A" Correspondence from Gettysburg Adams Chamber of Commerce President Carrie Stuart confirming that that the Chamber's Board of Directors voted by a two-thirds majority in support of MDRC.
- Exhibit "B" Correspondence from Gettysburg Attorney Bernard A. Yannetti, Jr. confirming the support of the following local business owners:
- Richard Klein of The Links at Gettysburg;
 - Eric Flynn of Liberty Mountain Resort;
 - Donna T. McCleaf of The Flower Boutique;
 - Steven D. Wiley of Gettysburg Glass, Inc.; and
 - Kenneth J. Rohrbaugh of Heritage Inns, Inc.
- Exhibit "C" Revised Transportation Impact Study prepared by Transportation Resource Group, Inc. and dated June 2010.
- Exhibit "D" Report relating the Shriver Well Evaluation prepared by Advantage Engineers, LLC and dated June 18, 2010.



18 Carlisle Street • Suite 203
Gettysburg, PA 17325
Voice 717.334.8151
Fax 717.334.3368

www.gettysburg-chamber.org

David LeVan
Mason Dixon Resort & Casino
c/o 1094 Baltimore Pike
Gettysburg, PA 17325

July 15, 2010

Dear Mr. LeVan:

In response to your request, the Gettysburg Adams Chamber of Commerce surveyed its membership and convened an executive session of its Board. The Board of Directors voted by a 2/3 majority to support the Mason Dixon Resorts and Casino, in accordance with our By-Laws Article IV Section 9.

Respectfully,

A handwritten signature in cursive script that reads "Carrie Stuart".

Carrie Stuart
President

RECEIVED
FEB 15 2010

HARTMAN & YANNETTI

ATTORNEYS AT LAW
126 BALTIMORE STREET
GETTYSBURG, PENNSYLVANIA
17325

BY:.....

GARY E. HARTMAN
geh@hartman-yannetti.com

TELEPHONE (717) 334-3108
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BERNARD A. YANNETTI, JR.
bay@hartman-yannetti.com

February 5, 2010

Richard A. Klein
The Links At Gettysburg
601 Mason-Dixon Road
Gettysburg, PA 17325

RE: Mason-Dixon Resort & Casino

Dear Rick:

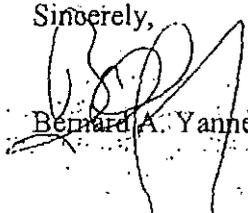
As you are aware, I represent the legal interests of Mason-Dixon Resort & Casino and it is in that capacity that I am writing to you today. The purpose of this correspondence is to seek your permission to use the name of your entity publicly in the promotion of Mason-Dixon Resort & Casino, including its soon to introduced "Mason-Dixon Pass" program, which is designed to drive our visitors to other tourist destinations, including The Links at Gettysburg.

It would be our intent to indicate that the amenities located at your facility would only be a short drive or commute from the casino and that there are additional activities in the area while visiting this particular resort.

It is well documented that Pennsylvania casinos conduct a great deal of business within their local communities, providing tremendous economic benefit. We are seeing this done all over the state. I believe Adams County businesses and residents, who are suffering during these economic times, need to enjoy these same opportunities found throughout the State.

I would ask that you please sign and return to me a copy of this letter indicating that my client may utilize your name and the opportunities found at your business location for the promotion of the casino to be located here in Gettysburg. Thank you for your consideration in this matter. Please do not hesitate to call if you have any questions or require any additional information.

Sincerely,


Bernard A. Yannetti, Jr.

BAY/snd

I hereby agree to the terms contained in this correspondence.


Richard A. Klein

HARTMAN & YANNETTI
ATTORNEYS AT LAW
126 BALTIMORE STREET
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17325

GARY E. HARTMAN
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BERNARD A. YANNETTI, JR.
bay@hartman-yannetti.com

February 5, 2010

Eric Flynn
Liberty Mountain Resort
78 Country Club Trail
Carroll Valley, PA 17320

RE: Mason-Dixon Resort & Casino

Dear Eric:

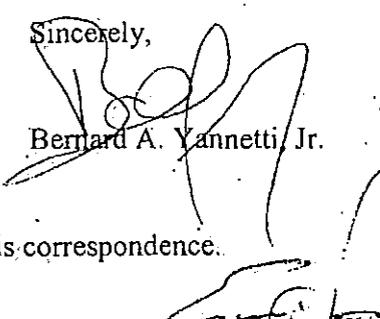
As you are aware, I represent the legal interests of Mason-Dixon Resort & Casino and it is in that capacity that I am writing to you today. The purpose of this correspondence is to seek your permission to use the name of your entity publicly in the promotion of Mason-Dixon Resort & Casino, including its soon to be introduced "Mason-Dixon Pass" program, which is designed to drive our visitors to other tourist destinations, including Liberty Mountain Resort.

It would be our intent to indicate that the amenities located at your facility would only be a short drive or commute from the casino and that there are additional activities in the area while visiting this particular resort.

It is well documented that Pennsylvania casinos conduct a great deal of business within their local communities, providing tremendous economic benefit. We are seeing this done all over the state. I believe Adams County businesses and residents, who are suffering during these economic times, need to enjoy these same opportunities found throughout the State.

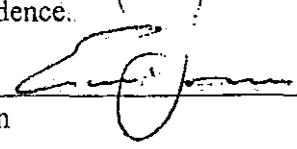
I would ask that you please sign and return to me a copy of this letter indicating that my client may utilize your name and the opportunities found at your business location for the promotion of the casino to be located here in Gettysburg. Thank you for your consideration in this matter. Please do not hesitate to call if you have any questions or require any additional information.

Sincerely,


Bernard A. Yannetti, Jr.

BAY/snd

I hereby agree to the terms contained in this correspondence.


Eric Flynn

HARTMAN & YANNETTI

ATTORNEYS AT LAW

126 BALTIMORE STREET

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BERNARD A. YANNETTI, JR.
bay@hartman-yannetti.com

March 19, 2010

Donna T. McCleaf
The Flower Boutique
39 N. Washington St.
Gettysburg, PA 17325

RE: Mason-Dixon Resort & Casino

Dear Donna:

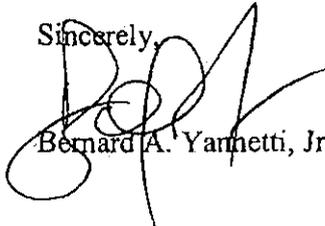
As you are aware, I represent the legal interests of Mason-Dixon Resort & Casino and it is in that capacity that I am writing to you today. The purpose of this correspondence is to seek your permission to use the name of your entity publicly in the promotion of Mason-Dixon Resort & Casino.

It would be our intent to indicate that the amenities located at your facility would only be a short drive or commute from the casino and that there are additional activities in the area while visiting this particular resort.

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Sincerely,


Bernard A. Yannetti, Jr.

BAY/snd

I hereby agree to the terms contained in this correspondence.


Donna T. McCleaf

HARTMAN & YANNETTI

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BERNARD A. YANNETTI, JR.
bay@hartman-yannetti.com

March 19, 2010

Steven D. Wiley
Gettysburg Glass Inc.
322 East Water Street
Gettysburg, PA 17325

RE: Mason-Dixon Resort & Casino

Dear Steve:

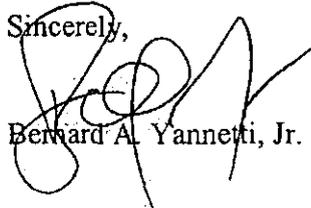
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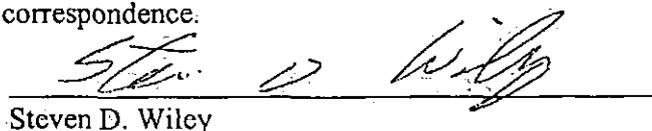
Sincerely,



Bernard A. Yannetti, Jr.

BAY/snd

I hereby agree to the terms contained in this correspondence.



Steven D. Wiley

**Mason-Dixon Resorts and Casino
Emmitsburg Road (S.R.3001)**

Transportation Impact Study

Cumberland Township, Adams County

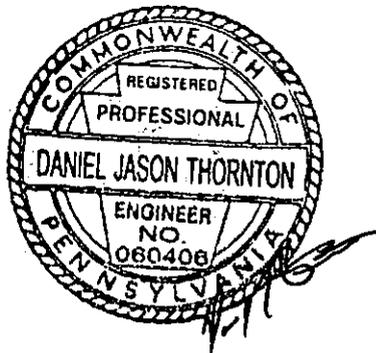


Prepared for:

**Mason-Dixon Resorts, LLC
David M. LeVan
1094 Baltimore Pike
Gettysburg, PA 17325
215-771-9992**

Prepared by:

**Transportation Resource Group, Inc.
Daniel J. Thornton, P.E.
204 North George Street, Suite 110
York, PA 17401
717-846-4660**



March 2010
Revised June 2010



Transportation Impact Study

for the

Mason-Dixon Resorts and Casino Emmitsburg Road (S.R.3001)

Cumberland Township
Adams County, Pennsylvania



prepared for

Mason-Dixon Resorts, LLC

prepared by

Transportation Resource Group, Inc.



**March 2010
Revised June 2010**



Transportation Resource Group, Inc.
204 North George Street, Suite 110
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Project No. 388.01

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Executive Summary

A summary of key findings is presented below followed by the recommendations.

1. Currently on site is the Eisenhower Inn and Conference Center as well as the All-Star Family Fun & Sports Complex. Access to the existing facility is provided by an existing full movement driveway on Emmitsburg Road (S.R.3001) to the south of Barlow Greenmount Road (S.R.3006). As part of the proposed development, the All-Star Family Fun building is proposed to be converted to a casino. The size of the building will not change but will be renovated to accommodate the casino's needs. The casino is proposed to have 600 slots and 50 table games at this time. Access to the proposed casino will continue to be provided by the full movement driveway on Emmitsburg Road (S.R.3001).
2. The following intersections were selected for detailed analysis based on discussions with Cumberland Township:
 - Emmitsburg Road (S.R.3001) / Barlow Greenmount Road (S.R.3006)
 - Emmitsburg Road (S.R.3001) / Existing Resort Driveway
 - Emmitsburg Road (S.R.3001) / U.S. Route 15 Southbound Ramps (2)
 - Emmitsburg Road (S.R.3001) / U.S. Route 15 Northbound Ramps
3. Currently, the study intersections operate at acceptable overall levels of service during the typical weekday PM, Friday PM and Saturday peak hours.
4. An accident analysis was performed at the study intersections. The analysis shows that there is not a safety problem at the study intersections.
5. In the year 2012 without the proposed development, the study intersections will continue to operate at acceptable overall levels of service during the typical weekday PM, Friday PM and Saturday peak hours.
6. In the year 2017 without the proposed development, the study intersections will continue to operate at acceptable overall levels of service during the typical weekday PM, Friday PM and Saturday peak hours.
7. The proposed Mason-Dixon Resorts and Casino is anticipated to generate an estimated 354 new trips during the typical weekday PM peak hour, 414 new trips during the Friday PM peak hour and 468 new trips during the Saturday peak hour. On a weekday basis, an estimated 5,958 trips will be generated.
8. In the year 2012 with the proposed Mason-Dixon Resorts and Casino, the study intersections will continue to operate at acceptable overall levels of service during the typical weekday PM, Friday PM and Saturday peak hours with the exception of the Emmitsburg Road (S.R.3001)/Existing Resort Driveway intersection, which will operate at an overall LOS F during the Saturday peak hour.

9. In the year 2017 with the proposed Mason-Dixon Resorts and Casino, the study intersections will operate at acceptable overall levels of service during the typical weekday PM, Friday PM and Saturday peak hours with the exception of the Emmitsburg Road (S.R.3001)/Existing Resort Driveway intersection, which will operate at an overall LOS F during the Saturday peak hour.
10. An improvement analysis was conducted to determine what improvements are required to mitigate the proposed development's site traffic. The results of the improvement analysis are as follows:

Emmitsburg Road (S.R.3001)/Existing Resort Driveway

An improvement analysis was conducted at this intersection to determine if turn lanes would mitigate the proposed development site traffic. The turn lanes do not mitigate the proposed development's site traffic. PennDOT does not permit the minor street approaches to have separate turn lanes at an unsignalized intersection. Therefore, a traffic signal warrant analysis was conducted. The analysis found that the Peak Hour Volume Warrant was met in the year 2012 during the Friday PM and Saturday peak hours. With a traffic signal, the intersection will operate at acceptable levels of service. The developer will install a northbound right turn lane on Emmitsburg Road (S.R.3001) at the existing Resort Driveway. The improvement analysis and a queue analysis is summarized in Table A and Table B in the appendices. The northbound right turn lane is proposed to be 250 feet of storage and a 100 foot taper.

Emmitsburg Road (S.R.3001)/Route 15 Northbound Ramps

In the year 2017 during the Friday PM peak hour, this intersection will operate at an overall LOS A (6.4 sec/veh delay) without the proposed development but will degrade to an overall LOS C (17.4 sec/veh delay) with the proposed development. Per PennDOT guidelines, the developer is required to mitigate the LOS if the LOS grade changes and the increase in overall intersection is greater than 10 seconds. In the year 2017, the delay increase from the "without development" scenario to "with development" scenario is 11.0 seconds. Therefore the developer is required to mitigate the site traffic. Even though turn lanes are not warranted on Emmitsburg Road (S.R.3001), an improvement analysis was conducted at this intersection to determine if turn lanes would mitigate the proposed development site traffic. The turn lanes do not mitigate the proposed development's site traffic. PennDOT does not permit the minor street approaches to have separate turn lanes at an unsignalized intersection. Therefore, a traffic signal warrant analysis was conducted. Based on the traffic counts, a traffic signal is not warranted at this intersection. The intersection only has a marginal degradation in levels of service and the intersection will still operate at acceptable overall levels of service in the year 2017 with the proposed development. Therefore, no improvements are recommended at this intersection.

11. With the proposed recommendations, safe and efficient site access can be obtained.

Recommendations

Based on the results of the traffic analysis, mitigating measures are required as part of this development. Only minor modifications are necessary since traffic volumes for a resort complex were anticipated in previous traffic planning for the tract of land. Traffic volumes have been lower than expected due to declining occupancy. Therefore, increased occupancy at the Mason-Dixon Resort will only help traffic reach slightly above previously expected levels. A summary of the recommendations to ensure safe and efficient traffic movements is presented below:

Site Access

1. The developer will install a traffic signal at the Emmitsburg Road (S.R.3001)/Existing Resort Driveway. The signal will be a two phase operation with the future possibility of coordination with future signals along Emmitsburg Road (S.R.3001). The developer will also construct a 250 foot northbound right turn lane on Emmitsburg Road (S.R.3001) at the existing resort driveway.
2. The developer will conduct a "follow-up" study after the proposed development has been constructed. The follow-up traffic counts at the study intersections will be conducted in either May or September after the proposed development has been fully constructed. If the traffic counts are significantly higher (greater than 10% increase) than expected in the approved traffic impact study, a new study will be required to determine the impacts and any improvements, if necessary.

INTRODUCTION/PROJECT SUMMARY

This report describes the transportation impact analysis for the proposed Mason-Dixon Resorts and Casino development located to the east of Emmitsburg Road (S.R.3001) in Cumberland Township, Adams County, Pennsylvania. See Figure 1 in the Appendices for the site location. Currently on site is the Eisenhower Inn and Conference Center as well as the All-Star Family Fun & Sports Complex. Access to the existing facility is provided by an existing full movement driveway on Emmitsburg Road (S.R.3001) to the south of Barlow Greenmount Road (S.R.3006). As part of the proposed development, the All-Star Family Fun building is proposed to be converted to a casino. The size of the building will not change but will be renovated to accommodate the casino's need. The casino is proposed to have 600 slots and 50 table games at this time. Access to the proposed casino will continue to be provided by the full movement driveway on Emmitsburg Road (S.R.3001). Figure 2 in the Appendices shows the site plan for the proposed development.

The purpose of this study is to identify significant traffic problems associated with the ability of the existing roadways to accommodate the volume of traffic anticipated from the development and to assure safe and efficient site access. If necessary, improvements will be recommended to mitigate the impact of development traffic on the surrounding roadway network. This study is prepared in accordance with PennDOT SOL 470-09-4 guidelines on traffic impact studies.

This report was revised to address the comments discussed at the April 29, 2010 PennDOT meeting. The report includes the new traffic counts that were conducted in May and June 2010.

DATA COLLECTION

This section summarizes the data collected for the study as well as the methodology used to obtain the data in accordance with the scoping meeting application. Based on the characteristics of the proposed development, the following peak hours will be analyzed:

- Typical weekday PM peak hour (Thursday)
- Friday PM peak hour
- Saturday peak hour

Manual turning movement counts were conducted at the study intersections by Transportation Resource Group, Inc. (TRG), during typical weekday evening, Friday evening and Saturday in January and February 2010. The counts were conducted during the typical weekday evening hours from 3:00 PM to 6:00 PM, during the Friday evening hours from 4:00 PM to 7:00 PM and during the Saturday midday hours from 12:00 PM to 3:00 PM. Counts were recorded in 15-minute intervals, with the peak hour being selected from the four highest consecutive 15-minute periods. At the PennDOT meeting, PennDOT requested that counts be conducted again at the Emmitsburg Road interchange with Route 15 to compare to the January/February counts. Counts were reconducted at the interchange in May 2010. The May 2010 traffic counts were found to be approximately 15% higher than the January/February counts. Therefore, the May 2010 counts were utilized in the analysis for the Emmitsburg Road interchange. The January/February counts at the other study intersections were factored up by 15% and utilized as existing counts. The TMC count summaries can be found in the Appendices. The following Thursday (PM), Friday (PM) and Saturday peak hours occurred at the study intersections:

<u>Intersection</u>	<u>Typical Weekday PM Peak Hour</u>	<u>Friday Peak Hour</u>	<u>SAT Peak Hour</u>
Emmitsburg Road (S.R.3001)/Barlow Greenmount Road (S.R.3006)	4:15 – 5:15 PM	4:30 – 5:30 PM	1:30 – 2:30 PM
Emmitsburg Road (S.R.3001)/Existing Resort Driveway	4:45 – 5:45 PM	4:00 – 5:00 PM	1:00 – 2:00 PM
Emmitsburg Road (S.R.300)/Route 15 SB Ramps	4:45 – 5:45 PM	4:15 – 5:15 PM	1:00 – 2:00 PM
Emmitsburg Road (S.R.3001)/Route 15 NB Ramps	4:45 – 5:45 PM	4:00 – 5:00 PM	1:15 – 2:15 PM

Due to the nature of the proposed development and the surrounding study area, gap analysis and travel time studies are not required and were not conducted for the study area roadways.

Also as requested at the April 29, 2010 PennDOT meeting, the following intersections had traffic counts conducted in May/June 2010:

- Emmitsburg Road (S.R.3001)/Ridge Road
- Taneytown Road (S.R.0134)/Knight Road
- Taneytown Road (S.R.0134)/US Route 15 SB Ramps
- Taneytown Road (S.R.0134)/US Route 15 NB Ramps

These intersections were only counted and are not included in the detailed analysis. After the proposed development is fully constructed, new traffic counts will be conducted in May or September to compare to the anticipated traffic volumes in the approved transportation impact study. If the counts are significantly higher (greater than 10%) than the expected traffic volumes, a new study will be required to determine the impacts of the proposed development. The traffic counts for these intersections are included in the Appendices.

EXISTING STUDY AREA CONDITIONS

This section discusses the existing traffic conditions, land use context, roadway type and traffic controls in the study area. A description of the study area including the roadway network is also included in the section.

Study Area

The study area was selected based on those intersections that will be impacted the greatest by the proposed development and was confirmed with Cumberland Township.

The following intersections were selected for further detailed analysis:

- Emmitsburg Road (S.R.3001)/Barlow Greenmount Road (S.R.3006)
- Emmitsburg Road (S.R.3001)/Existing Resort Driveway
- Emmitsburg Road (S.R.3001)/Route 15 SB Ramps
- Emmitsburg Road (S.R.3001)/Route 15 NB Ramps

Surrounding Land Uses/Land Use Context

Currently on site is the Eisenhower Inn and Conference Center and All-Star Family Fun & Sports Complex. The proposed development is surrounded mostly by residential homes with a few commercial land uses along Emmitsburg Road (S.R.3001). The Boyd's Bear store is located to the west of Emmitsburg Road (S.R.3001).

Based on a "windshield screen" field view of the study area, the land use context of the study area is rural community collector.

Existing Transportation System

The major roadway system in the study area is comprised of state roadways. The following is a summary of the traffic control of the existing study area intersections:

Emmitsburg Road (S.R.3001)/Barlow Greenmount Road (S.R.3006)

This three legged intersection is controlled by a stop sign on the minor street approach of Barlow Greenmount Road (S.R.3006). Each approach is single lane.

Emmitsburg Road (S.R.3001)/Complex Driveway

This existing three-legged intersection is controlled by a stop sign on the minor street approach of the complex driveway. There are no turn lanes on any of the approaches.

Emmitsburg Road (S.R.3001)/Route 15 Southbound Ramps

This intersection is unsignalized and provides access to/from southbound Route 15. A stop sign and a channelized right turn island are on the Route 15 southbound off ramp at Emmitsburg Road (S.R.3001). There are separate access points for traffic on Emmitsburg Road (S.R.3001) to enter the Route 15 southbound on ramp. The on ramp for southbound traffic on Emmitsburg Road (S.R.3001) is aligned with the Route 15 southbound off ramp while the on ramp for the northbound traffic on Emmitsburg Road (S.R.3001) is located further south. This intersection will be analyzed as two (2) separate intersections.

Emmitsburg Road (S.R.3001)/Route 15 Northbound Ramps

This four-legged intersection is controlled by a stop sign on the Route 15 northbound off ramp. The Route 15 northbound off ramp has a channelized right turn island.

Table 1 lists the roadway system characteristics for the study area road network.

Road Name	Ownership (State or Twp)	Orientation	Number of Lanes	Roadway Material	Speed Limit	ADT	Functional Class
Emmitsburg Road	S.R.3001	N-S	2	Asphalt	40	2,980	Minor Arterial
Barlow Greenmount Road	S.R.3006	N-S	2	Asphalt	40	525	Rural Minor Collector
Route 15	S.R.0015	N-S	4	Concrete	65	21,450	Principal Arterial Highway

The ADT volumes for the study roadways were obtained from PennDOT's ITMS website.

Pedestrian /Transit Facilities

Based on the characteristics of the surrounding study area, pedestrian facilities will not be provided along Emmitsburg Road (S.R.3001) as part of this development. Currently there are no pedestrian facilities provided along Emmitsburg Road (S.R.3001) in the area of the proposed development. There will be pedestrian facilities from the existing Eisenhower Hotel and Conference Center to the proposed casino on site. The local transit service does not have a fixed bus stop in the vicinity of the proposed development.

Traffic Volumes

Based on traffic characteristics of the development, weekday PM, Friday PM and Saturday peak hours were selected as the peak hours of operation. Existing peak hour traffic volumes were obtained from TMC counts conducted by TRG as discussed in the Data Collection section. Figure 3 in the Appendices shows the existing typical weekday PM, Friday PM and Saturday peak hour traffic volumes at the study area intersections.

Level of Service/Capacity Analysis

This section discusses the existing levels of service and capacity analysis at the study intersections. The Highway Capacity Manual (2000) procedures were used to determine level of service (LOS) and capacity for intersections. Unsignalized intersections are rarely at capacity from an overall standpoint. Traffic movements from minor crossroads and major road left turns are largely affected by the distribution of gaps in the major street traffic stream, and motorist judgment in choosing gaps through which to execute their maneuvers. Gaps in the traffic stream depend on several factors, including the type of maneuvers being executed, type of minor street control, the average speed of the major street and geometric and environmental conditions. LOS criteria for unsignalized and signalized intersections are based on control delay (in seconds per vehicle) to motorists. Various factors affect delay, including traffic volumes, lane configurations and widths, traffic signal phasing and cycle lengths, trucks percentages, etc.

LOS ranges from "A" to "F" with "A" having the most favorable performance.

PENNDOT's "Policy and Procedures for Transportation Impact Studies" suggests new intersections must be designed to at least operate at an LOS C or better for rural conditions and an LOS D or better for urban conditions. Also, the overall intersection LOS for With Development scenarios should be no worse than Without Development scenarios per PennDOT's guidelines. Level of service ranges for unsignalized and signalized intersections can be found in Table 2.

Level of Service	Expected Traffic Delay	Average Control Delay ⁽¹⁾	Control Delay ⁽²⁾
A	Little or No Delay	<10	<10
B	Short Traffic Delays	>10 and <15	>10 and < 20
C	Average Traffic Delays	>15 and <25	>20 and < 35
D	Long Traffic Delays	>25 and < 35	>35 and < 55
E	Very Long Traffic Delays	>35 and < 50	>55 and < 80
F	Failure, Extreme Congestion	>50	>80

⁽¹⁾ UNSIGNALIZED - SEC/VEH
⁽²⁾ SIGNALIZED - SEC/VEH

Table A in the Appendices shows the results of the existing level of service analysis. The existing study intersections operate at acceptable overall levels of service during the typical weekday PM, Friday PM and Saturday peak hours. Figure 4 in the Appendices shows the existing level of service results at the study area intersections. Details of the level of service analysis can be found in the Appendices.

Crash Analysis

Crash data was obtained from PennDOT's Bureau of Highway Safety and Traffic Engineering for a five year period at the study intersections. This contains a summary of reportable accidents. A reportable accident is defined as an accident in which an injury or fatality occurs or one in which at least one of the vehicles is towed from the scene. The following summarizes the results of the crash data:

Emmitsburg Road (S.R.3001)/Barlow Greenmount Road (S.R.3006)

- No accidents were reported at this intersection during the five year period.

Emmitsburg Road (S.R.3001)/Route 15 SB Ramps

- No accidents were reported at this intersection during the five year period.

Emmitsburg Road (S.R.3001)/Route 15 NB Ramps

- No accidents were reported at this intersection during the five year period.

The analysis shows that the study intersection is not indicative of a safety problem. Details of the crash data analysis can be found in the Appendices.

OPENING YEAR (2012) TRAFFIC CONDITIONS WITHOUT DEVELOPMENT

This section discusses the opening year 2012 traffic conditions without the proposed Mason-Dixon Resorts and Casino. This section includes traffic volumes and level of service analysis at the study intersections.

Traffic Volumes

Some level of external traffic growth on the roadway system can be expected even without the proposed development. This growth can be attributed to a nominal increase in through traffic and traffic generated by developments outside the study area. A 0.86 percent average annual growth rate was used to factor the 2010 traffic counts to the year 2012 as recommended by PennDOT Bureau of Planning and Research's Table "Growth Factors for July 2009 to July 2010." The background growth volume additions can be found in the Appendices. Figure 5 in the Appendices shows the typical weekday PM, Friday PM and Saturday opening year (2012) without development traffic volumes at the study intersections.

Planned and Permitted Developments

There are no planned or permitted developments in the area per correspondence with Cumberland Township traffic engineer.

Level of Service/Capacity Analysis

A level of service analysis was conducted at the study intersections for the opening year (2012) without development scenario to determine the future level of service without the proposed development. Table A in the Appendices shows the results of the level of service analysis.

As shown in the analysis, the study intersections continue to operate at acceptable overall levels of service in the year 2012 without the proposed development. Figure 6 in the Appendices shows the level of service results for the opening (2012) year without development during the typical weekday PM, Friday PM and Saturday peak hours at the study intersections. Details of the level of service analysis can be found in the Appendices.

DESIGN HORIZON (2017) TRAFFIC CONDITIONS WITHOUT DEVELOPMENT

This section discusses the design horizon year 2017 traffic conditions without the proposed Mason-Dixon Resorts and Casino development traffic volumes. This section includes the traffic volumes and level of service analysis at the study intersections.

Traffic Volumes

Some level of external traffic growth on the roadway system can be expected even without the proposed development. This growth can be attributed to a nominal increase in through traffic and traffic generated by developments outside the study area. A 0.86 percent average annual growth rate was used to factor the 2010 traffic counts to the year 2017 as recommended by PennDOT Bureau of Planning and Research's Table "Growth Factors for July 2009 to July 2010." The background growth volume additions can be found in the Appendices. Figure 7 in the Appendices shows the typical weekday PM, Friday PM and Saturday design horizon (2017) year without development traffic volumes at the study intersections.

Level of Service/Capacity Analysis

A level of service analysis was conducted at the study intersections for the design horizon year (2017) without development scenario to determine the future level of service without the proposed development. Table A in the Appendices shows the results of the level of service analysis.

As shown in the analysis, the study intersections continue to operate at acceptable overall levels of service in the year 2017 without the proposed development. Figure 8 in the Appendices shows the level of service results for the design horizon year (2017) without development during the typical weekday PM, Friday PM and Saturday peak hours at the study intersections. Details of the level of service analysis can be found in the Appendices.

DEVELOPMENT DESCRIPTION

Proposed Development

Currently on site is the Eisenhower Inn and Conference Center as well as the All-Star Family Fun & Sports Complex. Access to the existing facility is provided by an existing full movement driveway on Emmitsburg Road (S.R.3001) to the south of Barlow Greenmount Road (S.R.3006). As part of the proposed development, the All-Star Family Fun building is proposed to be converted to a casino. The size of the building will not change but will be renovated to accommodate the casino's needs. The casino is proposed to have 600 slots and 50 table games at this time. Access to the proposed casino will continue to be provided by the full movement driveway on Emmitsburg Road (S.R.3001).

Sight Distance Analysis

Intersection sight distance was field measured at the existing resort driveway intersecting Emmitsburg Road (S.R.3001) to determine if the available sight distance would exceed the PennDOT minimum and desirable site intersection sight distance. The required and measured intersection sight distances are shown below:

<u>Intersection</u>	<u>Measured</u>	<u>Left</u>		<u>Measured</u>	<u>Right</u>	
		<u>Required</u>	<u>Desirable</u>		<u>Required</u>	<u>Desirable</u>
Emmitsburg Road (S.R.3001)/ Existing Resort Driveway	+1,200'	319'	540'	507'	331'	450'

The available sight distance from the existing driveway exceeds the minimum and desirable sight distance. Details of the sight distance analysis can be found in the Appendices.

Site Trip Generation

The level of traffic likely to be generated by the proposed development has been estimated to determine the potential traffic impact on the study intersections. Estimated site trips for the development were computed using the ITE article "Trip Generation Characteristics of Small to Medium Casino".

Table 2 summarizes the estimated site trip generation for the proposed development during the typical weekday PM, Friday PM and Saturday Peak hours.

Land Use (Code)	PM Peak Hour (Thursday)			PM Peak Hour (Friday)			Saturday Peak			ADWT
	Enter	Exit	Total	Enter	Exit	Total	Enter	Exit	Total	
Casino (600 slots)	186	168	354	216	198	414	252	216	468	5,958

Cumberland Township has adopted a Capital Improvement Plan to ensure that the Township is equipped to provide access and infrastructure to accommodate anticipated development in the Township. This development is located in the Transportation Service Area – South. The traffic impact fee for this service area is \$2,210 per PM peak hour trip. The proposed development has 354 PM peak hour trips which equates to \$782,340. The developer and the Township will need to coordinate regarding the traffic impact fee to determine if site traffic from the existing All Star Family & Sports Complex can be subtracted from the traffic impact fee calculations. Details of the trip generation can be found in the Appendices.

Modal Split

Because there is not sufficient pedestrian, bicycle, and transit facilities provided within the study area, a trip reduction due to modal split is not applicable and was not assumed for this study.

Site Trip Distribution and Assignment

Figure 9 in the appendices shows the trip distribution percentages for the site traffic on the major roadway system. Figure 10 in the Appendices shows the total site trip distribution and assignment of the proposed development on the major roadway system at full buildout of the proposed development. Site trip distribution was based on existing traffic patterns, a marketing study for the casino and engineering judgment. The following trip distribution was assumed for the site trips generated by the proposed development:

- 9% oriented to/from the north on Emmitsburg Road (S.R.3001)
- 1% oriented to/from the east on Barlow Greenmount Road (S.R.3006)
- 50% oriented to/from the south on Route 15
- 38% oriented to/from the north on Route 15
- 2% oriented to/from the south on Emmitsburg Road (S.R.3001)

On a daily basis, the existing driveway on Emmitsburg Road (S.R.3001) will have an estimated ADT of 6,464 trips or 3,232 vehicles, which is a high volume operation. Details of the site trip distribution and assignment are included in the Appendices.

OPENING YEAR (2012) TRAFFIC CONDITIONS WITH DEVELOPMENT

Traffic Volumes

The opening year with development peak hour volumes were derived by combining existing traffic, growth in background and through traffic, and the site trips generated by the proposed Mason-Dixon Resorts and Casino. Figure 11 in the Appendices shows the typical weekday PM, Friday PM and Saturday opening year with development traffic volumes at the study intersections.

Level of Service/Capacity Analysis

A level of service analysis was conducted at the study area intersections for the opening year (2012) with development scenario to determine the level of service with the development. Table A in the Appendices shows the results of the level of service analysis.

As shown in the analysis, all study intersections operate at acceptable overall levels of service in the year 2012 with development, with the exception of the Emmitsburg Road (S.R.3001)/Existing Resort Driveway intersection. Figure 12 in the Appendices shows the level of service results for the opening year (2012) with development during the typical weekday PM, Friday PM and Saturday peak hours at the study intersections. Details of the level of service analysis can be found in the Appendices.

Turn Lane Analysis

The need for a left turn and right turn lane at the site access intersection with Emmitsburg Road (S.R.3001) was analyzed with opening year (2012) with development traffic volumes utilizing PennDOT guidelines outlined in Publication 46 Chapter 11.17. The analysis found that a left turn lane is not warranted but a northbound right turn lane is warranted on Emmitsburg Road (S.R.3001) at the site access intersection during the Friday PM peak hour with 2012 traffic volumes. Details of the turn lane analysis can be found in the Appendices.

DESIGN HORIZON YEAR (2017) TRAFFIC CONDITIONS WITH DEVELOPMENT

Traffic Volumes

The design horizon year (2017) with development peak hour volumes were derived by combining existing traffic, growth in background and through traffic, and the site trips generated by the proposed Mason-Dixon Resorts and Casino. Figure 13 in the Appendices shows the typical weekday PM, Friday PM and Saturday design horizon year (2017) with development traffic volumes at the study intersections.

Level of Service/Capacity Analysis

A level of service analysis was conducted at the study area intersections for the design horizon year (2017) with development scenario to determine the level of service with the development. Table A in the Appendices shows the results of the level of service analysis.

As shown in the analysis, all study intersections operate at acceptable overall levels of service in the year 2017 with development, with the exception of the Emmitsburg Road (S.R.3001)/Existing Resort Driveway intersection. Figure 14 in the Appendices shows the level of service results for the design horizon year (2017) with development during the typical weekday PM, Friday PM and Saturday peak hours at the study intersections. Details of the level of service analysis can be found in the Appendices.

Turn Lane Analysis

The need for a left turn and right turn lane at the site access intersection with Emmitsburg Road (S.R.3001) was analyzed with design horizon year (2017) with development traffic volumes utilizing PennDOT guidelines outlined in Publication 46 Chapter 11.1. The analysis found that a left turn is not warranted but a northbound right turn lane is warranted on Emmitsburg Road (S.R.3001) at the site access intersection during the Friday PM peak hour with 2017 traffic volumes. Details of the turn lane analysis can be found in the Appendices.

MITIGATION IDENTIFICATION

An improvement analysis was conducted to determine what improvements are required to mitigate the proposed development's site traffic. The results of the improvement analysis are as follows:

Emmitsburg Road (S.R.3001)/Existing Resort Driveway

An improvement analysis was conducted at this intersection to determine if turn lanes would mitigate the proposed development site traffic. The turn lanes do not mitigate the proposed development's site traffic. PennDOT does not permit the minor street approaches to have separate turn lanes at an unsignalized intersection. Therefore, a traffic signal warrant analysis was conducted. The analysis found that the Peak Hour Volume Warrant was met in the year 2012 during the Friday PM and Saturday peak hours. With a traffic signal, the intersection will operate at acceptable levels of service. The developer will install a northbound right turn lane on Emmitsburg Road (S.R.3001) at the existing Resort Driveway. The improvement analysis and a queue analysis are summarized in Table A and Table B in the appendices. The northbound right turn lane is proposed to be 250 feet of storage and a 100 foot taper.

Emmitsburg Road (S.R.3001)/Route 15 Northbound Ramps

In the year 2017 during the Friday PM peak hour, this intersection will operate at an overall LOS A (6.4 sec/veh delay) without the proposed development but will degrade to an overall LOS C (17.4 sec/veh delay) with the proposed development. Per PennDOT guidelines, the developer is required to mitigate the LOS if the LOS grade changes and the increase in overall intersection are greater than 10 seconds. In the year 2017, the delay increase from the "without development" scenario to "with development" scenario is 11.0 seconds. Therefore the developer is required to mitigate the site traffic. Even though turn lanes are not warranted on Emmitsburg Road (S.R.3001), an improvement analysis was conducted at this intersection to determine if turn lanes would mitigate the proposed development site traffic. The turn lanes do not mitigate the proposed development's site traffic. PennDOT does not permit the minor street approaches to have separate turn lanes at an unsignalized intersection. Therefore, a traffic signal warrant analysis was conducted. Based on the traffic counts, a traffic signal is not warranted at this intersection. The intersection only has a marginal degradation in levels of service and the intersection will still operate at acceptable overall levels of service in the year 2017 with the proposed development. Therefore, no improvements are recommended at this intersection.

Details of the improvement/mitigation analysis can be found in the Appendices.

CONCLUSIONS and RECOMMENDATIONS

A summary of key findings is presented below followed by the recommendations.

1. Currently on site is the Eisenhower Inn and Conference Center as well as the All-Star Family Fun & Sports Complex. Access to the existing facility is provided by an existing full movement driveway on Emmitsburg Road (S.R.3001) to the south of Barlow Greenmount Road (S.R.3006). As part of the proposed development, the All-Star Family Fun building is proposed to be converted to a casino. The size of the building will not change but will be renovated to accommodate the casino's needs. The casino is proposed to have 600 slots and 50 table games at this time. Access to the proposed casino will continue to be provided by the full movement driveway on Emmitsburg Road (S.R.3001).
2. The following intersections were selected for detailed analysis based on discussions with Cumberland Township:
 - Emmitsburg Road (S.R.3001) / Barlow Greenmount Road (S.R.3006)
 - Emmitsburg Road (S.R.3001) / Existing Resort Driveway
 - Emmitsburg Road (S.R.3001) / U.S. Route 15 Southbound Ramps (2)
 - Emmitsburg Road (S.R.3001) / U.S. Route 15 Northbound Ramps
3. Currently, the study intersections operate at acceptable overall levels of service during the typical weekday PM, Friday PM and Saturday peak hours.
4. An accident analysis was performed at the study intersections. The analysis shows that there is not a safety problem at the study intersections.
5. In the year 2012 without the proposed development, the study intersections will continue to operate at acceptable overall levels of service during the typical weekday PM, Friday PM and Saturday peak hours.
6. In the year 2017 without the proposed development, the study intersections will continue to operate at acceptable overall levels of service during the typical weekday PM, Friday PM and Saturday peak hours.
7. The proposed Mason-Dixon Resorts and Casino is anticipated to generate an estimated 354 new trips during the typical weekday PM peak hour, 414 new trips during the Friday PM peak hour and 468 new trips during the Saturday peak hour. On a weekday basis, an estimated 5,958 trips will be generated.
8. In the year 2012 with the proposed Mason-Dixon Resorts and Casino, the study intersections will continue to operate at acceptable overall levels of service during the typical weekday PM, Friday PM and Saturday peak hours with the exception of the Emmitsburg Road (S.R.3001)/Existing Complex Driveway

intersection, which will operate at an overall LOS F during the Saturday peak hour.

9. In the year 2017 with the proposed Mason-Dixon Resorts and Casino, the study intersections will operate at acceptable overall levels of service during the typical weekday PM, Friday PM and Saturday peak hours with the exception of the Emmitsburg Road (S.R.3001)/Existing Complex Driveway intersection, which will operate at an overall LOS F during the Saturday peak hour.
10. An improvement analysis was conducted to determine what improvements are required to mitigate the proposed development's site traffic. The results of the improvement analysis are as follows:

Emmitsburg Road (S.R.3001)/Existing Resort Driveway

An improvement analysis was conducted at this intersection to determine if turn lanes would mitigate the proposed development site traffic. The turn lanes do not mitigate the proposed development's site traffic. PennDOT does not permit the minor street approaches to have separate turn lanes at an unsignalized intersection. Therefore, a traffic signal warrant analysis was conducted. The analysis found that the Peak Hour Volume Warrant was met in the year 2012 during the Friday PM and Saturday peak hours. With a traffic signal, the intersection will operate at acceptable levels of service. The developer will install a northbound right turn lane on Emmitsburg Road (S.R.3001) at the existing Resort Driveway. The improvement analysis and a queue analysis are summarized in Table A and Table B in the appendices. The northbound right turn lane is proposed to be 250 feet of storage and a 100 foot taper.

Emmitsburg Road (S.R.3001)/Route 15 Northbound Ramps

In the year 2017 during the Friday PM peak hour, this intersection will operate at an overall LOS A (6.4 sec/veh delay) without the proposed development but will degrade to an overall LOS C (17.4 sec/veh delay) with the proposed development. Per PennDOT guidelines, the developer is required to mitigate the LOS if the LOS grade changes and the increase in overall intersection are greater than 10 seconds. In the year 2017, the delay increase from the "without development" scenario to "with development" scenario is 11.0 seconds. Therefore the developer is required to mitigate the site traffic. Even though turn lanes are not warranted on Emmitsburg Road (S.R.3001), an improvement analysis was conducted at this intersection to determine if turn lanes would mitigate the proposed development site traffic. The turn lanes do not mitigate the proposed development's site traffic. PennDOT does not permit the minor street approaches to have separate turn lanes at an unsignalized intersection. Therefore, a traffic signal warrant analysis was conducted. Based on the traffic counts, a traffic signal is not warranted at this intersection. The intersection only has a marginal degradation in levels of service and the intersection will still operate at acceptable overall levels of service in the year 2017 with the proposed development. Therefore, no improvements are recommended at this intersection.

11. With the proposed recommendations, safe and efficient site access can be obtained.

RECOMMENDATIONS

Based on the results of the traffic analysis, mitigating measures are required as part of this development. Only minor modifications are necessary since traffic volumes for a resort complex were anticipated in previous traffic planning for the tract of land. Traffic volumes have been lower than expected due to declining occupancy. Therefore, increased occupancy at the Mason-Dixon Resort will only help traffic reach slightly above previously expected levels. A summary of the recommendations to ensure safe and efficient traffic movements is presented below:

Site Access

1. The developer will install a traffic signal at the Emmitsburg Road (S.R.3001)/Existing Resort Driveway. The signal will be a two phase operation with the future possibility of coordination with future signals along Emmitsburg Road (S.R.3001). The developer will also construct a 250 foot northbound right turn lane on Emmitsburg Road (S.R.3001) at the existing resort driveway.
2. The developer will conduct a "follow-up" study after the proposed development has been constructed. The follow-up traffic counts at the study intersections will be conducted in either May or September after the proposed development has been fully constructed. If the traffic counts are significantly higher (greater than 10% increase) than expected in the approved traffic impact study, a new study will be required to determine the impacts and any improvements, if necessary.



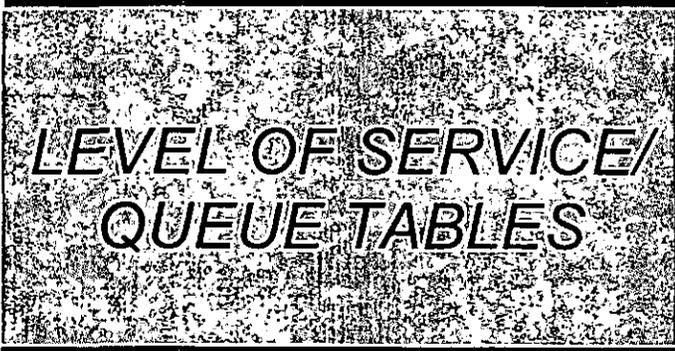
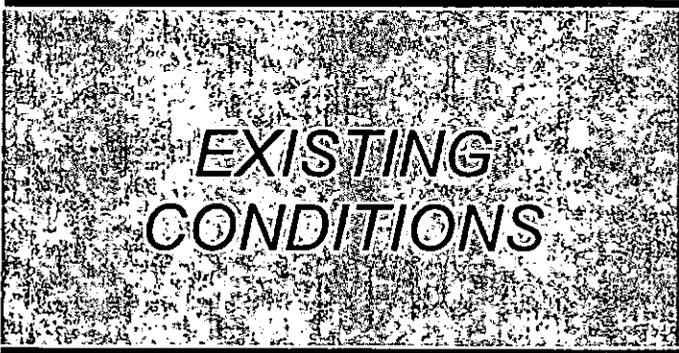
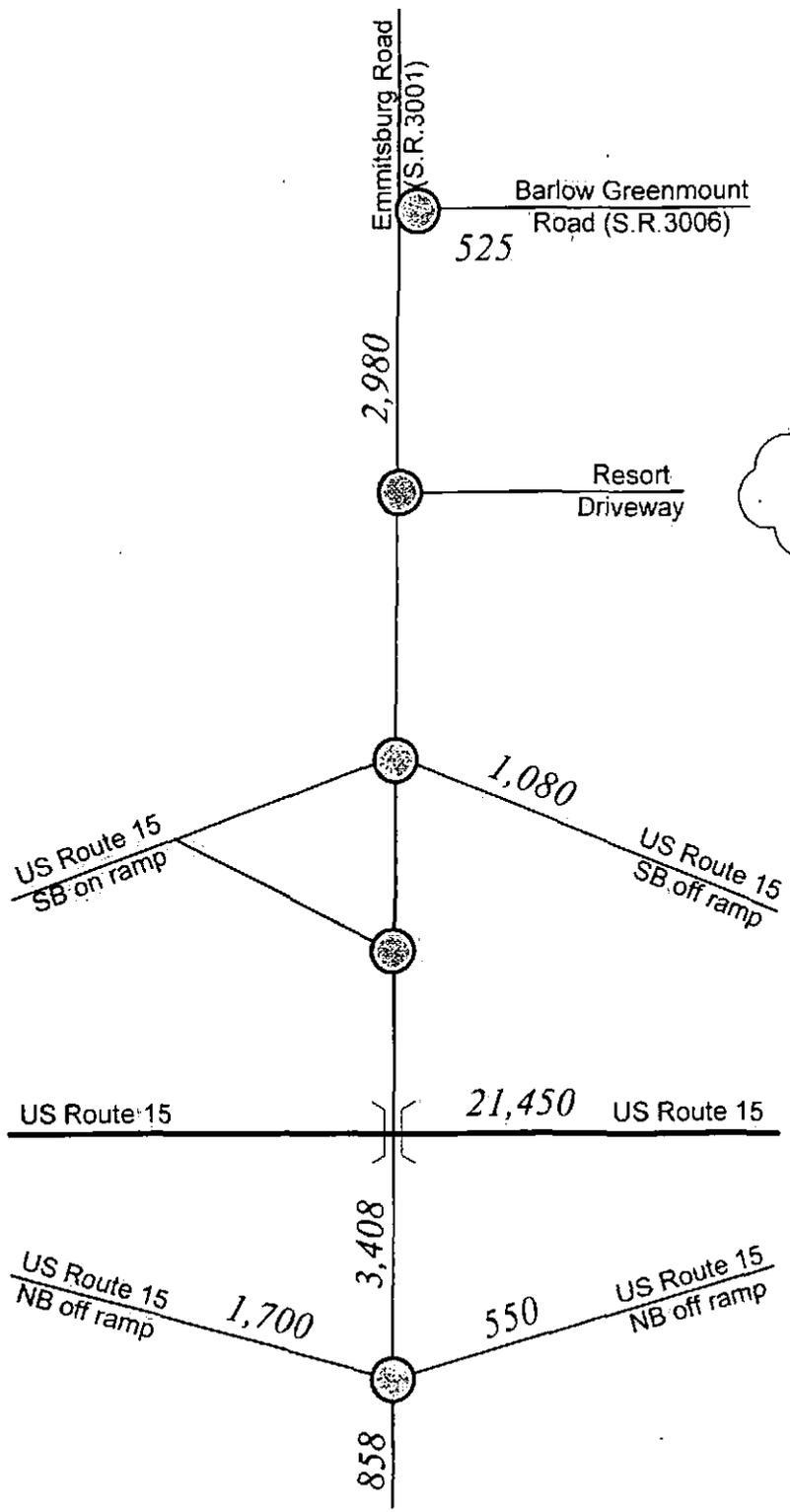


Table A
Intersection Level of Service Results

Intersection	Approach (Movement)	Existing Traffic Volumes			Opening Year 2012 Traffic Volumes w/out Development			Opening Year 2012 Traffic Volumes with Development			Opening Year 2012 Traffic Volumes with Development and Improvements		
		PM (Weekday)	PM (Friday)	SAT	PM (Weekday)	PM (Friday)	SAT	PM (Weekday)	PM (Friday)	SAT	PM (Weekday)	PM (Friday)	SAT
Emmitsburg Road (S.R.3001) / Barlow Greenmount Road (S.R.3006)	WB	A (9.8)	B(10.1)	B (10.4)	A (9.8)	B (10.1)	B (10.5)	A (10.1)	B (10.5)	B (11.0)	-	-	-
	SBL	A (1.4)	A (1.5)	A (0.5)	A (1.4)	A (1.5)	A (0.5)	A (1.3)	A (1.3)	A (0.5)	-	-	-
	Overall	A (1.4)	A (1.2)	A (1.3)	A (1.4)	A (1.2)	A (1.3)	A (1.4)	A (1.1)	A (1.3)	-	-	-
Emmitsburg Road (S.R.3001) / All-Star Driveway	WB	A (9.7)	A (9.6)	B (10.3)	A (9.7)	A (9.6)	B (10.4)	C (22.3)	C (25.3)	F (198.8)	B (10.4)	B (10.8)	B (14.1)
	NB	-	-	-	-	-	-	-	-	-	A (8.7)	A (8.5)	B (13.2)
	(NBT)	-	-	-	-	-	-	-	-	-	A (8.5)	A (8.6)	B (13.5)
	(NBR)	-	-	-	-	-	-	-	-	-	A (8.8)	A (8.4)	B (13.1)
	SB	-	-	-	-	-	-	-	-	-	A (8.6)	A (9.7)	B (15.5)
	(SBL)	A (0.8)	A (1.7)	A (1.1)	A (0.8)	A (1.7)	A (1.1)	A (2.3)	A (3.4)	A (3.0)	-	-	-
	(SBLT)	-	-	-	-	-	-	-	-	-	A (8.8)	A (9.7)	B (15.5)
Overall	A (0.8)	A (1.1)	A (1.4)	A (0.8)	A (1.1)	A (1.4)	A (7.1)	A (8.0)	F (63.8)	A (9.2)	A (9.5)	B (14.0)	
Emmitsburg Road (S.R.3001) / Route 15 Southbound Off Ramp	EB	B (11.5)	B (11.7)	B (10.1)	B (11.6)	B (11.8)	B (10.1)	C (15.4)	C (15.9)	B (13.3)	-	-	-
	Overall	A (3.1)	A (2.2)	A (2.7)	A (3.1)	A (2.3)	A (2.6)	A (3.8)	A (3.3)	A (3.2)	-	-	-
Emmitsburg Road (S.R.3001) / Route 15 Southbound On Ramp	NBL	A (0.7)	A (0.9)	A (0.6)	A (0.7)	A (0.9)	A (0.6)	A (0.5)	A (0.6)	A (0.4)	-	-	-
	Overall	A (0.5)	A (0.5)	A (0.3)	A (0.5)	A (0.5)	A (0.3)	A (0.3)	A (0.3)	A (0.2)	-	-	-
Emmitsburg Road (S.R.3001) / Route 15 Northbound Ramps	WB	B(12.6)	B (13.6)	B (11.4)	B (12.8)	B (13.7)	B (11.5)	D (27.2)	D (32.7)	C (22.5)	-	-	-
	SBL	A(3.0)	A (4.0)	A (3.4)	A(3.0)	A (4.0)	A (3.4)	A(5.2)	A (5.6)	A (5.2)	-	-	-
	Overall	A(6.4)	A (6.2)	A (5.3)	A(6.4)	A (6.2)	A (5.3)	B (14.7)	C (15.9)	B (12.2)	-	-	-

Intersection	Approach (Movement)	Existing Traffic Volumes			Design Horizon Year 2017 Traffic Volumes w/out Development			Design Horizon Year 2017 Traffic Volumes with Development			Design Horizon Year 2017 Traffic Volumes with Development and Improvements		
		PM (Weekday)	PM (Friday)	SAT	PM (Weekday)	PM (Friday)	SAT	PM (Weekday)	PM (Friday)	SAT	PM (Weekday)	PM (Friday)	SAT
Emmitsburg Road (S.R.3001) / Barlow Greenmount Road (S.R.3006)	WB	A (9.8)	B(10.1)	B (10.4)	A (9.9)	B(10.3)	B (10.6)	B (10.2)	B (10.7)	B (11.1)	-	-	-
	SBL	A (1.4)	A (1.5)	A (0.5)	A (1.4)	A (1.6)	A (0.5)	A (1.3)	A (1.4)	A (0.4)	-	-	-
	Overall	A (1.4)	A (1.2)	A (1.3)	A (1.4)	A (1.2)	A (1.3)	A (1.4)	A (1.2)	A (1.3)	-	-	-
Emmitsburg Road (S.R.3001) / All-Star Driveway	WB	A (9.7)	A (9.6)	B (10.3)	A (9.9)	A (9.6)	B (10.5)	C (23.1)	C (26.7)	F (217.2)	B (10.6)	B (10.9)	B (14.3)
	NB	-	-	-	-	-	-	-	-	-	A (8.7)	A (8.6)	B (13.3)
	(NBT)	-	-	-	-	-	-	-	-	-	A (8.4)	A (8.7)	B (13.6)
	(NBR)	-	-	-	-	-	-	-	-	-	A (8.7)	A (8.5)	B (13.2)
	SB	-	-	-	-	-	-	-	-	-	A (8.8)	A (9.8)	B (15.9)
	(SBL)	A (0.8)	A (1.7)	A (1.1)	A (0.8)	A (1.7)	A (1.1)	A (2.3)	A (3.4)	A (3.0)	-	-	-
	(SBLT)	-	-	-	-	-	-	-	-	-	A (8.8)	A (9.8)	B (15.9)
Overall	A (0.8)	A (1.1)	A (1.4)	A (0.8)	A (1.1)	A (1.4)	A (7.2)	A (8.3)	F (68.9)	A (9.2)	A (9.6)	B (14.2)	
Emmitsburg Road (S.R.3001) / Route 15 Southbound Off Ramp	EB	B (11.5)	B (11.7)	B (10.1)	B (11.8)	B (12.0)	B (10.2)	C (15.9)	C (16.4)	B (13.6)	-	-	-
	Overall	A (3.1)	A (2.2)	A (2.7)	A (3.2)	A (2.3)	A (2.7)	A (4.0)	A (3.3)	A (3.3)	-	-	-
Emmitsburg Road (S.R.3001) / Route 15 Southbound On Ramp	NBL	A (0.7)	A (0.9)	A (0.6)	A (0.7)	A (0.9)	A (0.6)	A (0.6)	A (0.7)	A (0.4)	-	-	-
	Overall	A (0.5)	A (0.5)	A (0.3)	A (0.5)	A (0.5)	A (0.3)	A (0.4)	A (0.4)	A (0.2)	-	-	-
Emmitsburg Road (S.R.3001) / Route 15 Northbound Ramps	WB	B(12.6)	B (13.6)	B (11.4)	B (13.1)	B (14.2)	B (11.7)	D (29.5)	E (36.5)	C (23.6)	-	-	-
	SBL	A(3.0)	A (4.0)	A (3.4)	A(3.0)	A (4.0)	A (3.4)	A (5.1)	A (5.6)	A (5.2)	-	-	-
	Overall	A(6.4)	A (6.2)	A (5.3)	A (6.6)	A (6.4)	A (5.4)	C (15.7)	C (17.4)	B (12.6)	-	-	-





- LEGEND**
- Existing Street
 - - - Proposed Street/Driveway
 - 000 Estimated ADT
 - ⊙ Study Intersection



FIGURE 1

STUDY AREA

TRANSPORTATION IMPACT STUDY

PROPOSED MASON - DIXON
RESORT AND CASINO

CUMBERLAND TOWNSHIP
ADAMS COUNTY, PA

VISION CASINO FLOOR

"The Ambiance"

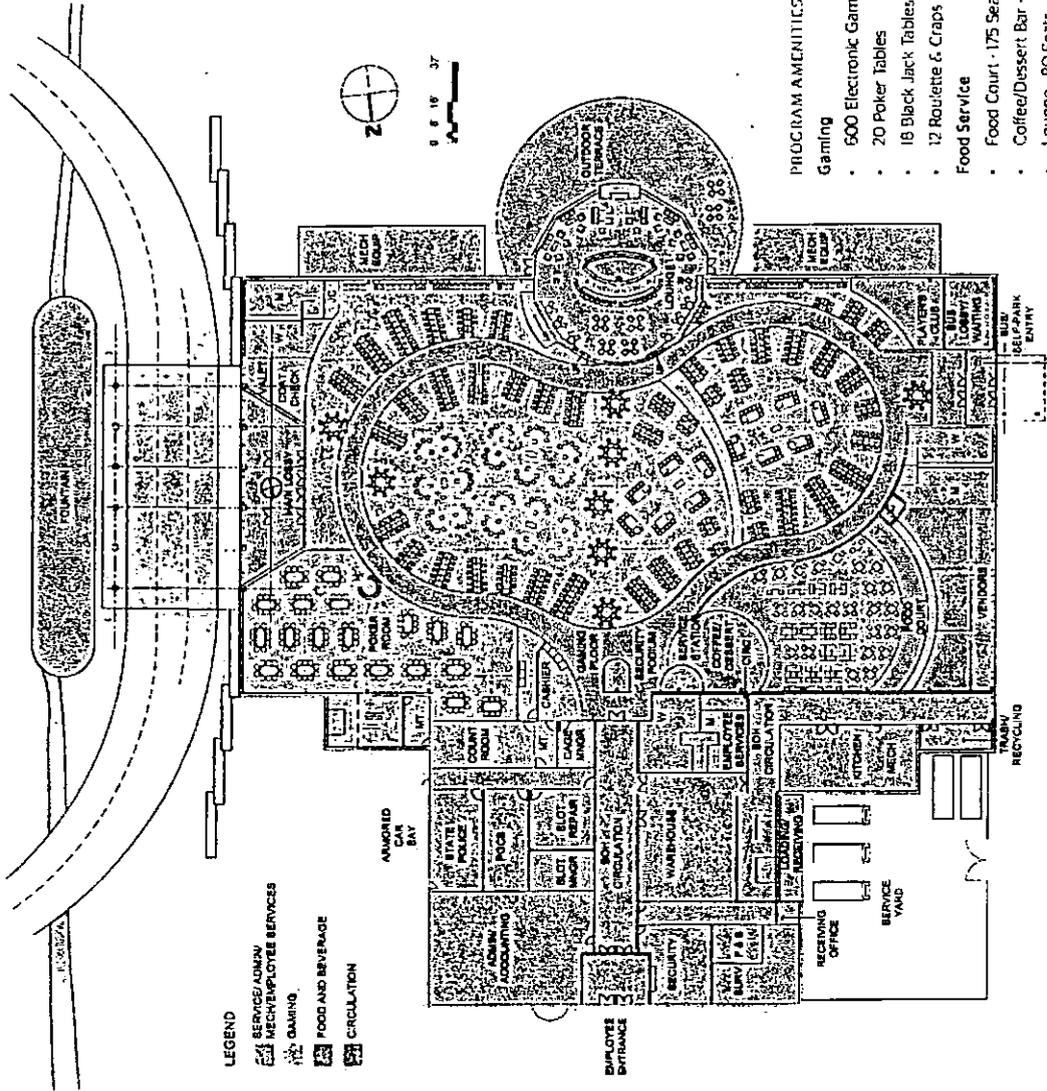
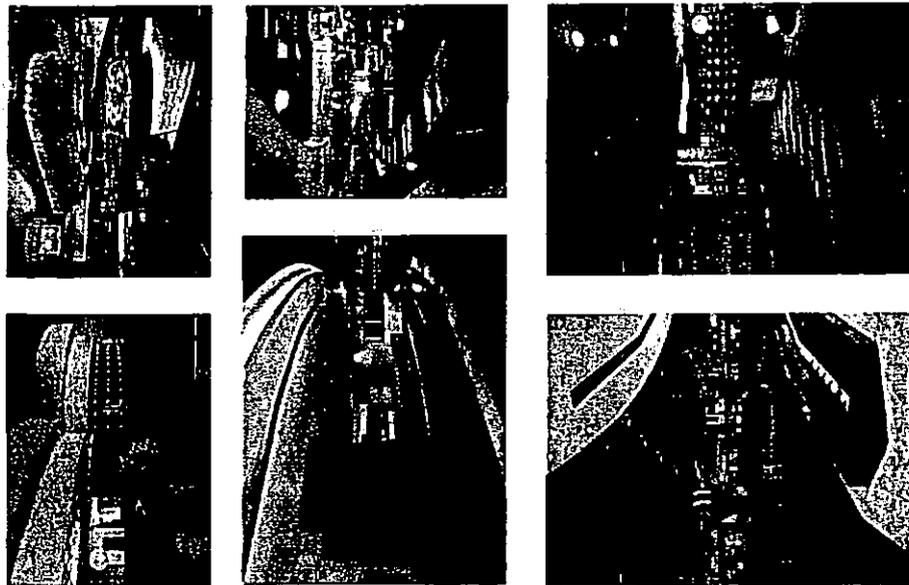
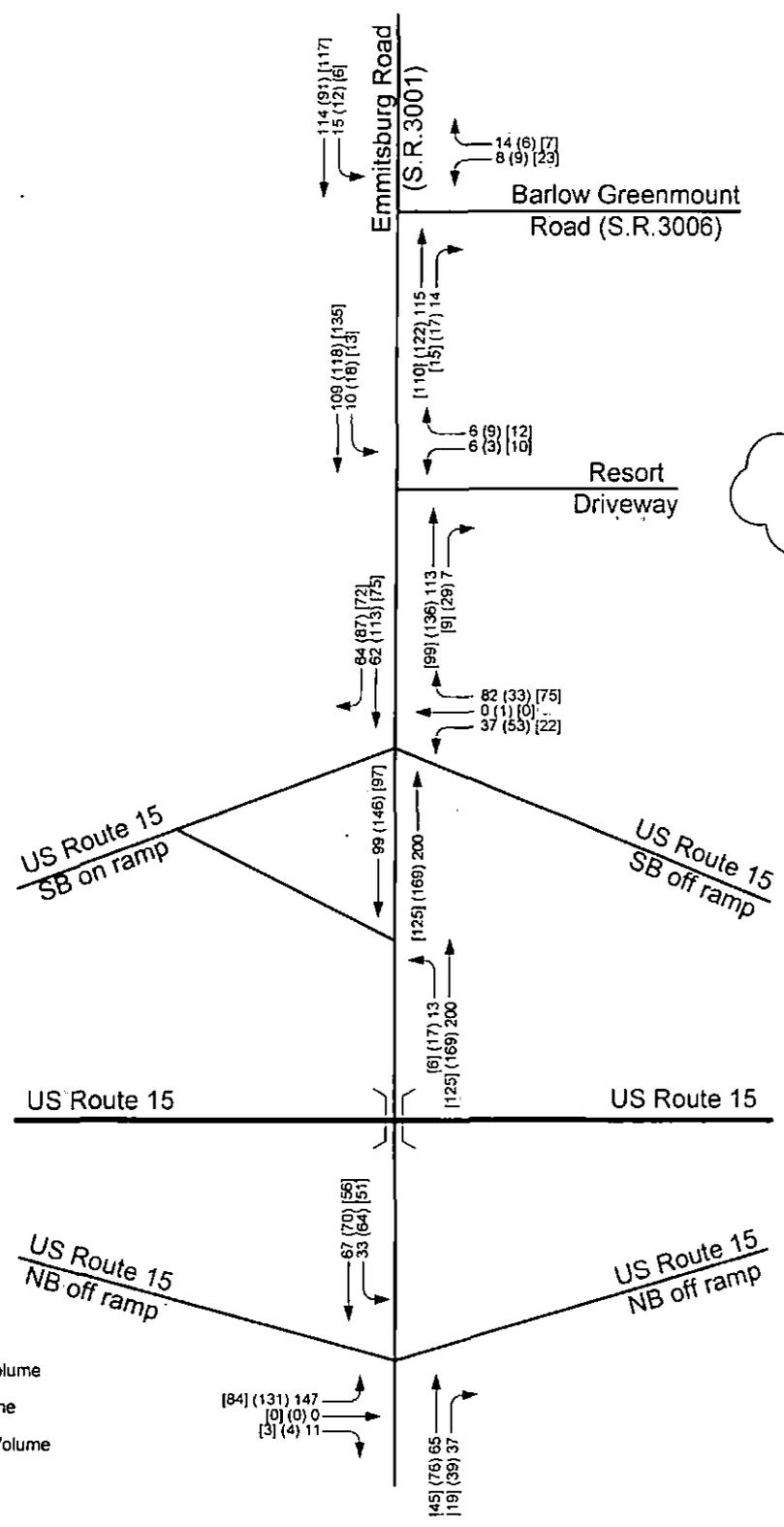
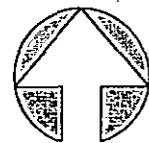


Figure 2



- LEGEND**
- Existing Street
 - - - Proposed Street/Driveway
 - 000 PM Peak Thursday Traffic Volume
 - (000) PM Peak Friday Traffic Volume
 - [000] Saturday Peak Hour Traffic Volume
 - ← Lane Configuration

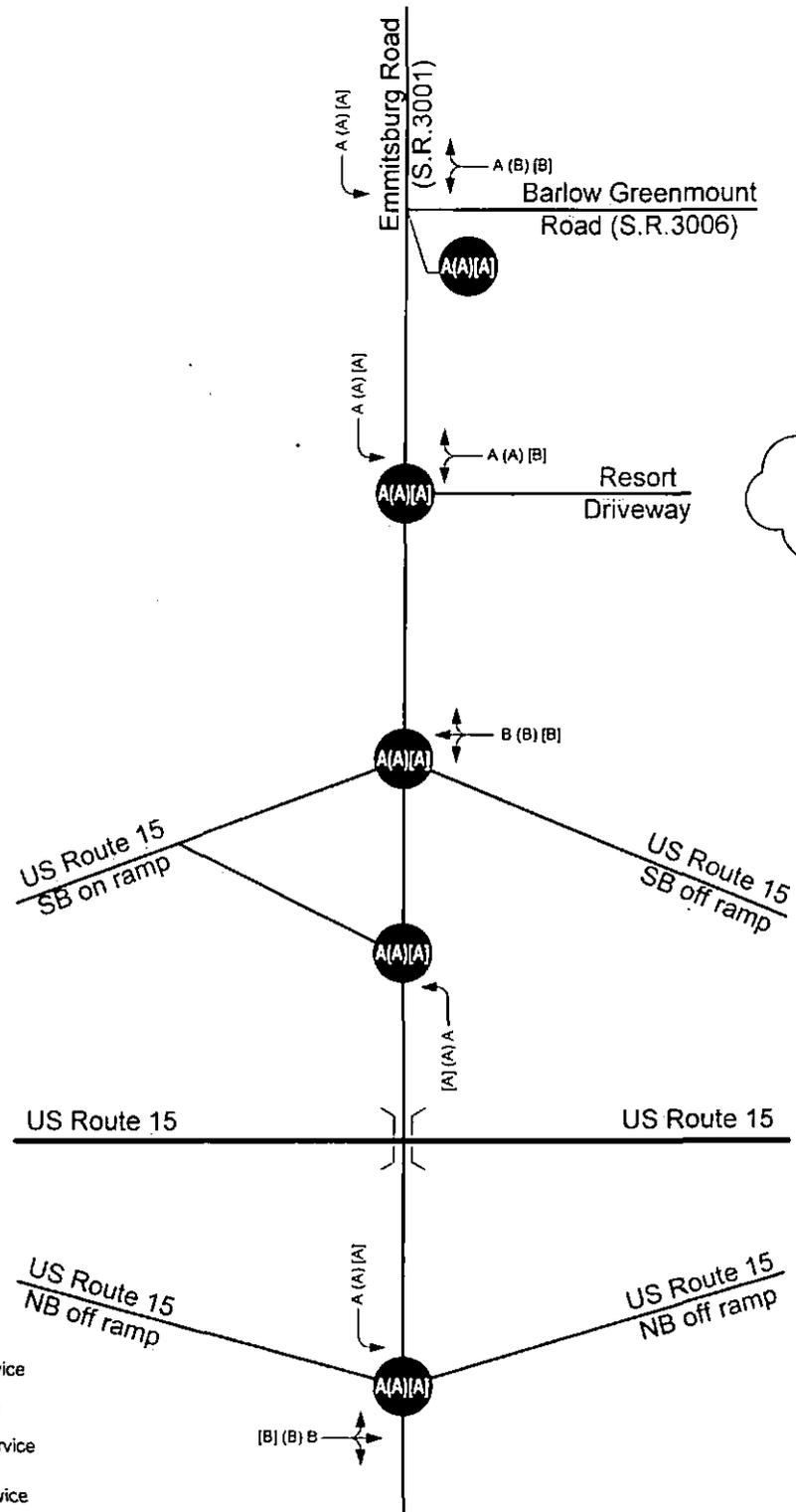
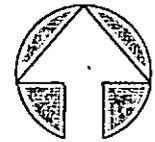


FIGURE 3
EXISTING TRAFFIC VOLUMES

TRANSPORTATION IMPACT STUDY

PROPOSED MASON - DIXON
RESORT AND CASINO

CUMBERLAND TOWNSHIP
ADAMS COUNTY, PA



LEGEND

- Existing Street
- - - - Proposed Street/Driveway
- 000 PM Peak Thursday Level of Service
- (000) PM Peak Friday Level of Service
- [000] Saturday Peak Hour Level of Service
- A(A)(A)** Overall Intersection Level of Service
- ← Lane Configuration

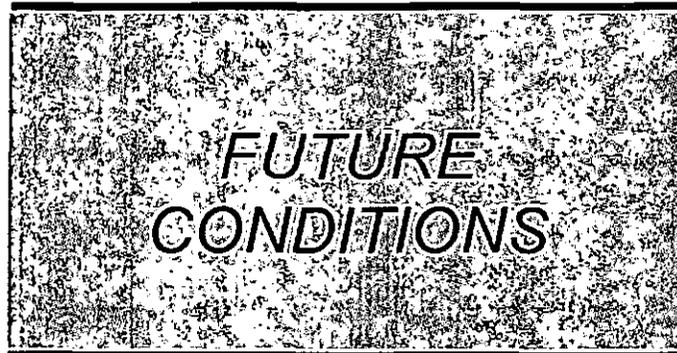


FIGURE 4
EXISTING LEVEL OF SERVICE

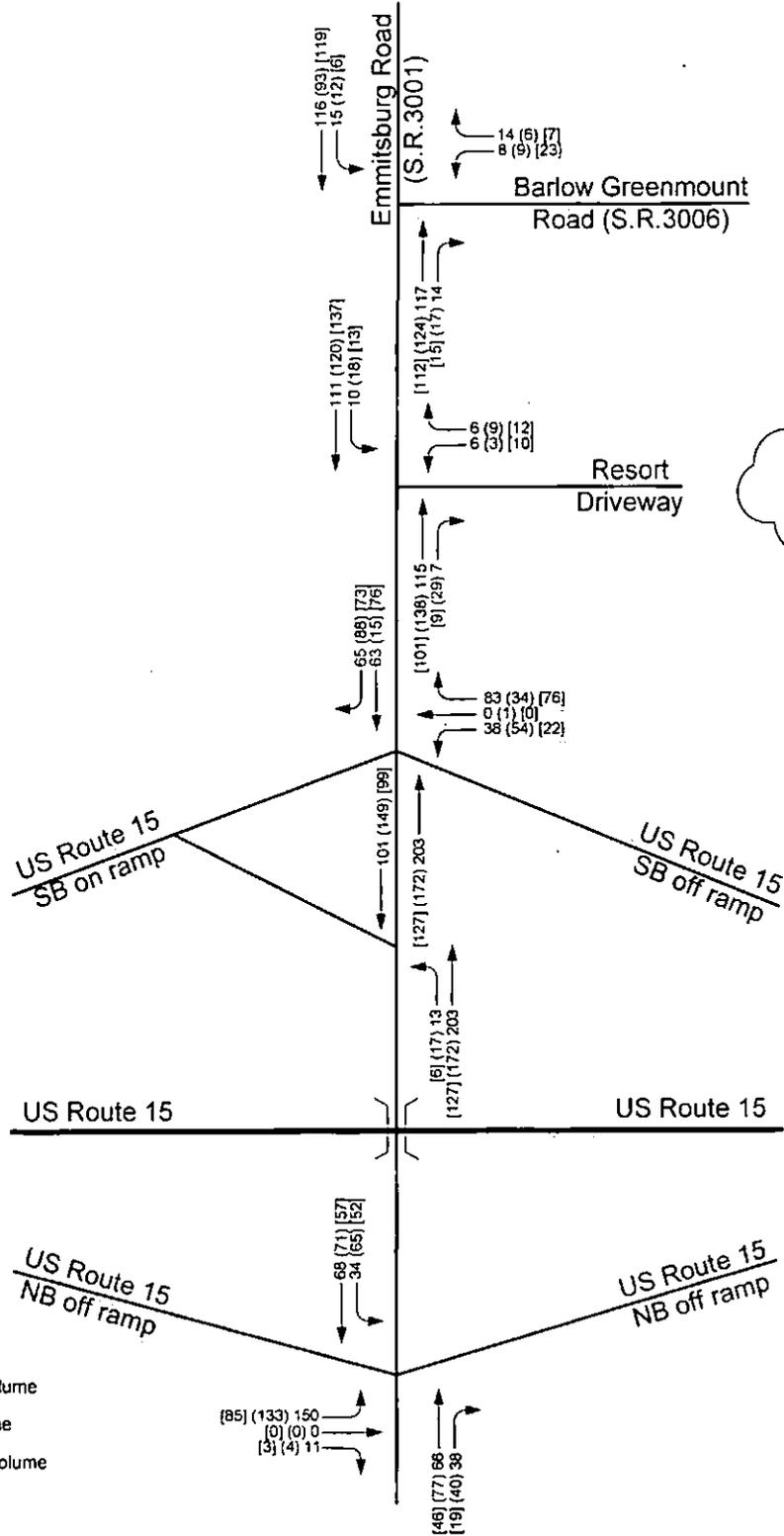
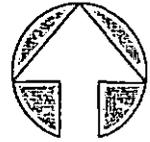
TRANSPORTATION IMPACT STUDY

PROPOSED MASON - DIXON
RESORT AND CASINO

CUMBERLAND TOWNSHIP
ADAMS COUNTY, PA



Future Conditions



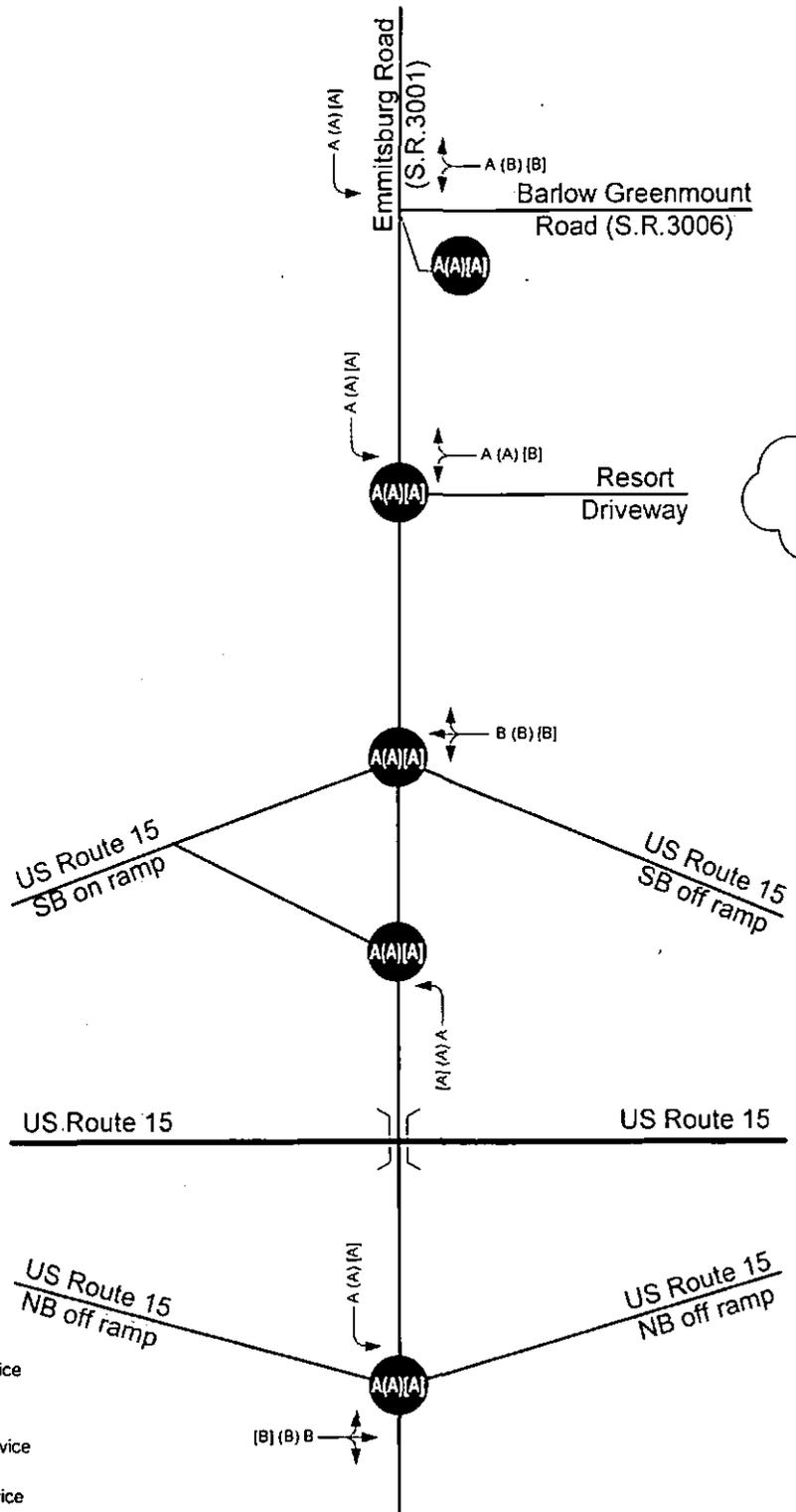
LEGEND

- Existing Street
- - - Proposed Street/Driveway
- 000 PM Peak Thursday Traffic Volume
- (000) PM Peak Friday Traffic Volume
- [000] Saturday Peak Hour Traffic Volume
- ← Lane Configuration



FIGURE 5
 OPENING YEAR 2012
 TRAFFIC VOLUMES
 WITHOUT DEVELOPMENT

TRANSPORTATION IMPACT STUDY
 PROPOSED MASON - DIXON
 RESORT AND CASINO
 CUMBERLAND TOWNSHIP
 ADAMS COUNTY, PA



LEGEND

- Existing Street
- - - Proposed Street/Driveway
- 000 PM Peak Thursday Level of Service
- (000) PM Peak Friday Level of Service
- [000] Saturday Peak Hour Level of Service
- A(A)[A]** Overall Intersection Level of Service
- ← Lane Configuration



FIGURE 6
 OPENING YEAR 2012
 LEVEL OF SERVICE
 WITHOUT DEVELOPMENT

TRANSPORTATION IMPACT STUDY
 PROPOSED MASON - DIXON
 RESORT AND CASINO
 CUMBERLAND TOWNSHIP
 ADAMS COUNTY, PA

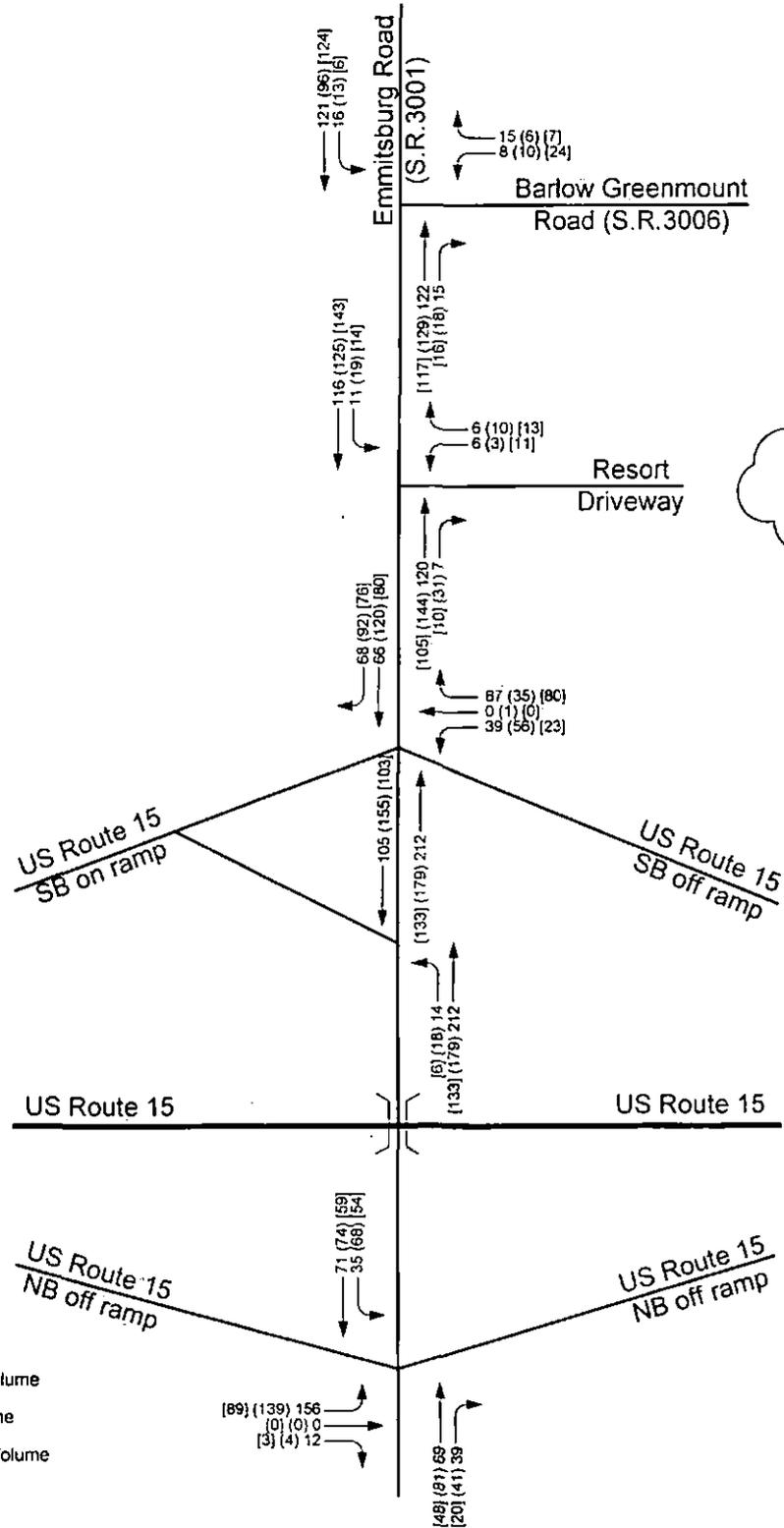
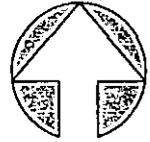


FIGURE 7

HORIZON YEAR (2017)

TRAFFIC VOLUMES

WITHOUT DEVELOPMENT

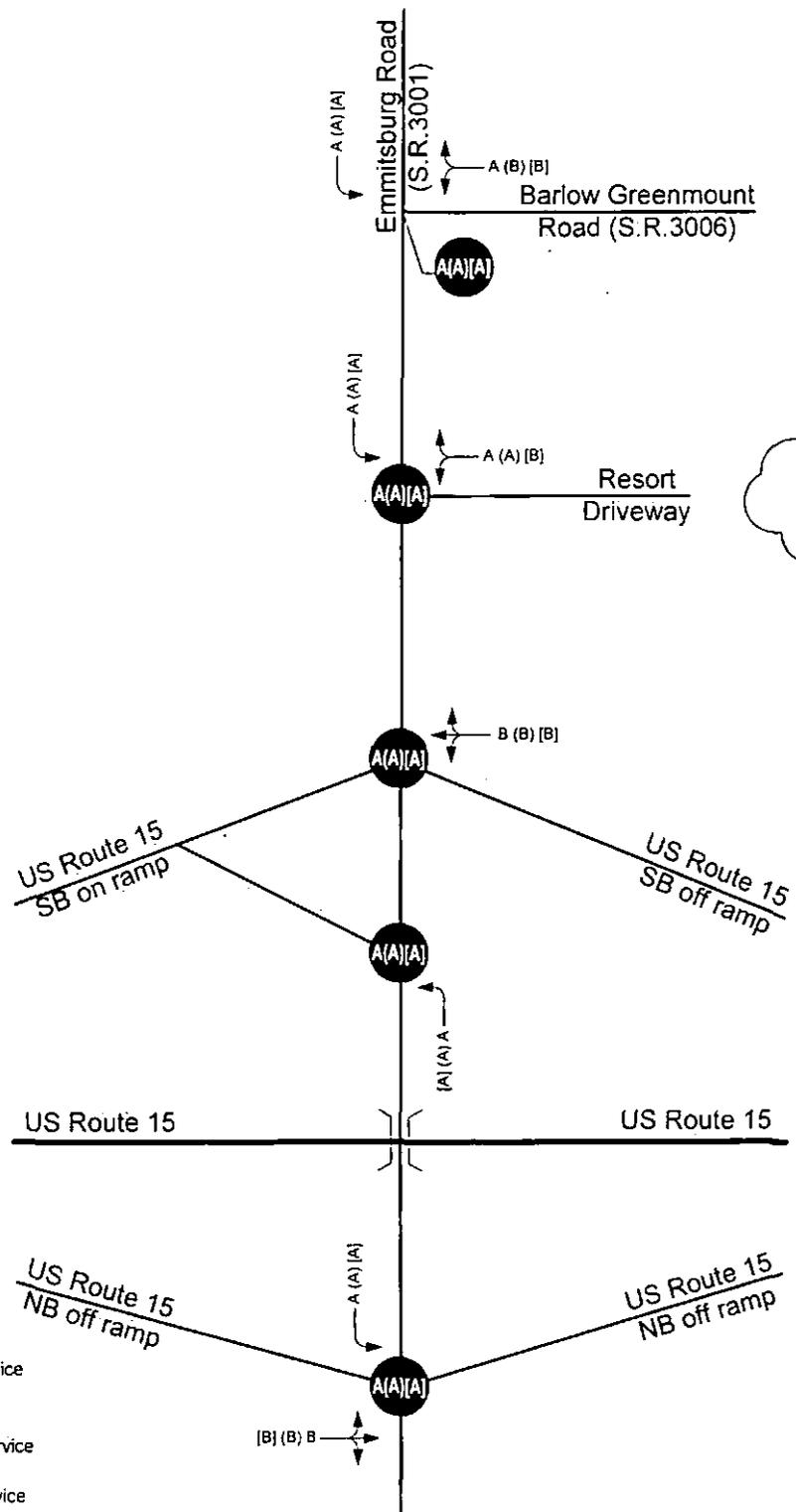
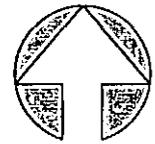
TRANSPORTATION IMPACT STUDY

PROPOSED MASON - DIXON

RESORT AND CASINO

CUMBERLAND TOWNSHIP

ADAMS COUNTY, PA



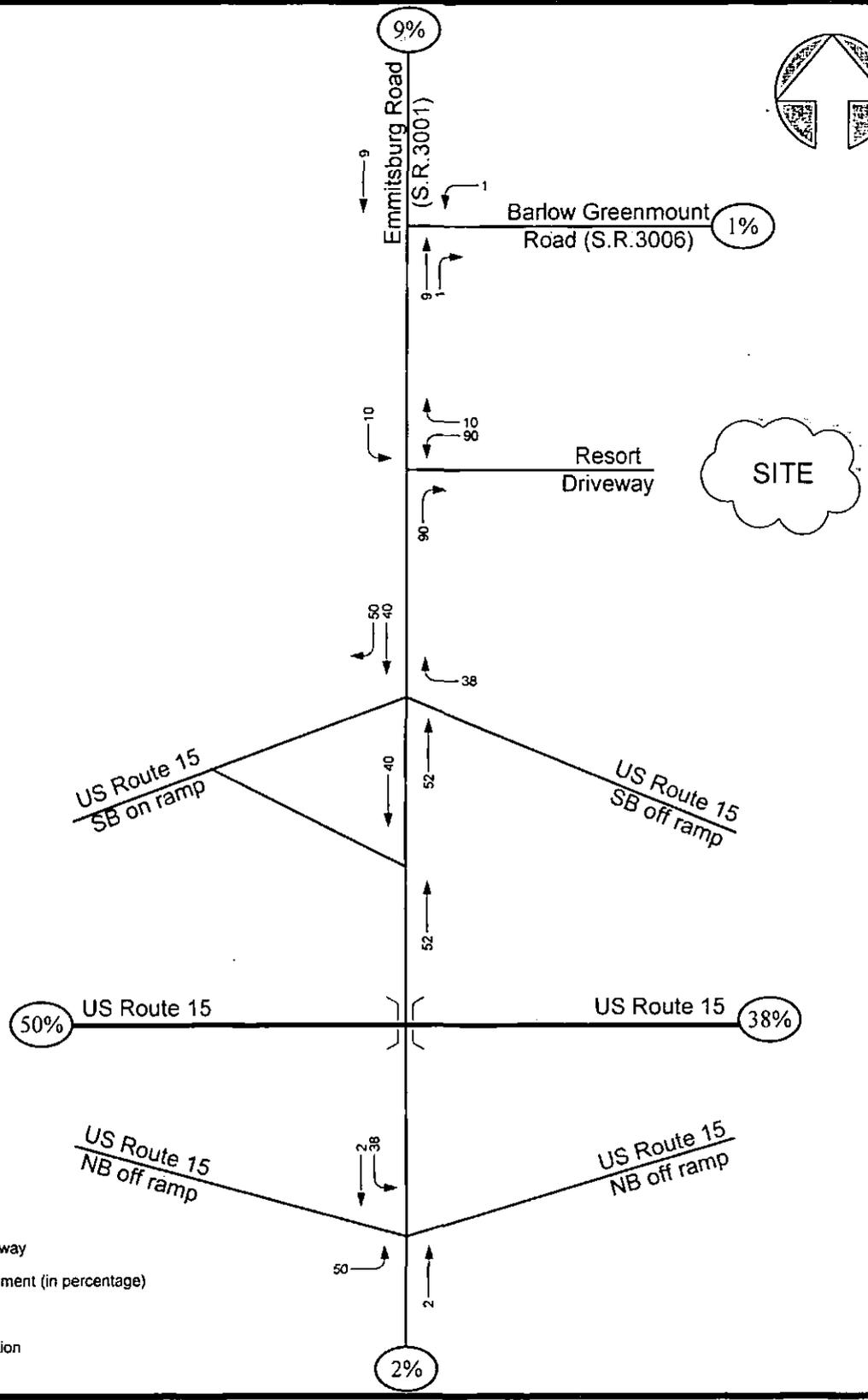
LEGEND

- Existing Street
- - - Proposed Street/Driveway
- 000 PM Peak Thursday Level of Service
- (000) PM Peak Friday Level of Service
- [000] Saturday Peak Hour Level of Service
- A(A)[A]** Overall Intersection Level of Service
- ← Lane Configuration



FIGURE 8
 HORIZON YEAR (2017)
 LEVEL OF SERVICE
 WITHOUT DEVELOPMENT

TRANSPORTATION IMPACT STUDY
 PROPOSED MASON - DIXON
 RESORT AND CASINO
 CUMBERLAND TOWNSHIP
 ADAMS COUNTY, PA

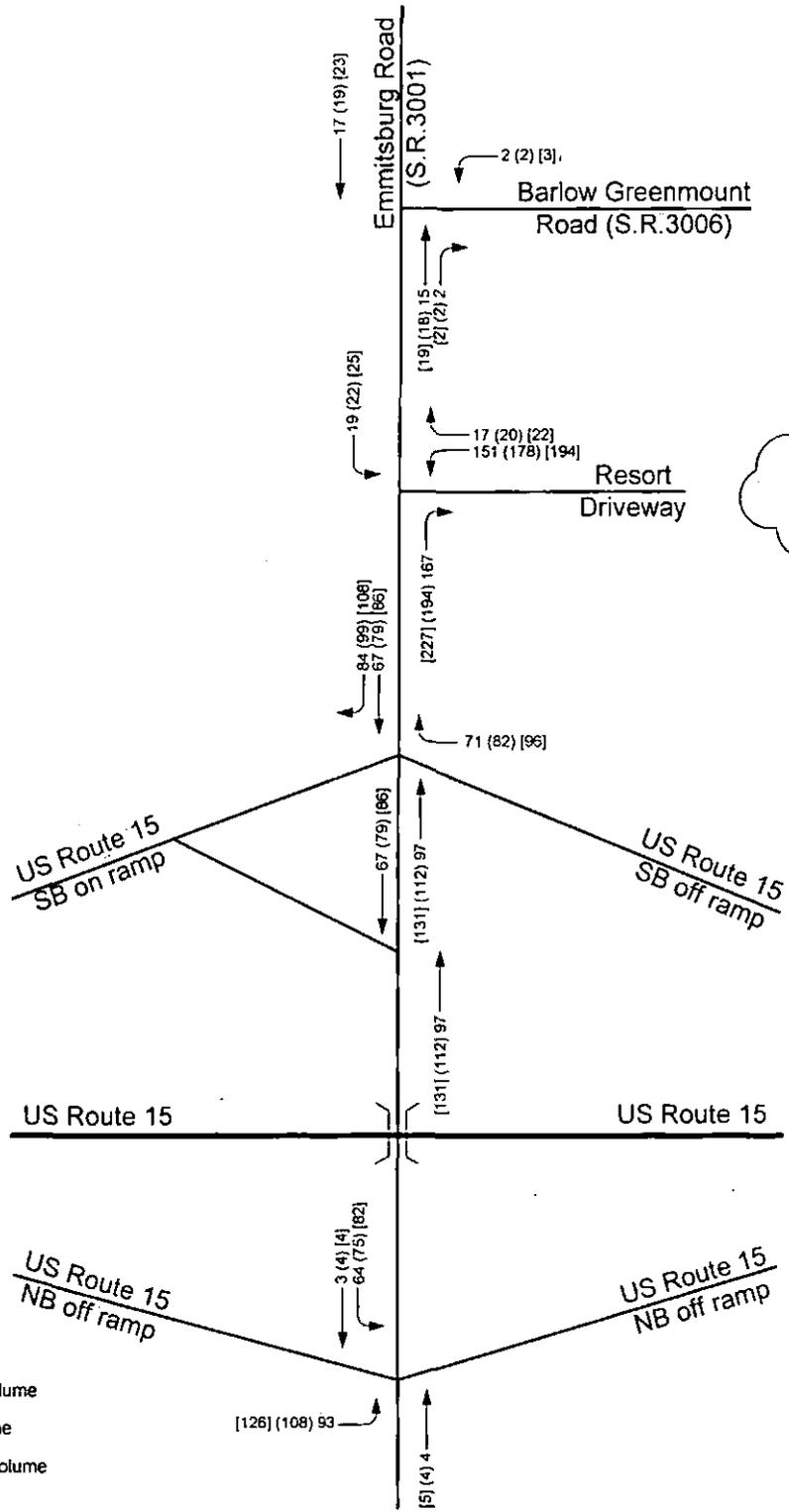
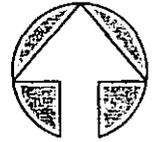


- LEGEND**
- Existing Street
 - - - Proposed Street/Driveway
 - 000 Peak Hour Trip Assignment (in percentage)
 - ← Movement
 - 00% New Site Trip Distribution



FIGURE 9
TRIP DISTRIBUTION PERCENTAGE

TRANSPORTATION IMPACT STUDY
PROPOSED MASON - DIXON
RESORT AND CASINO
CUMBERLAND TOWNSHIP
ADAMS COUNTY, PA



LEGEND

- Existing Street
- - - Proposed Street/Driveway
- 000 PM Peak Thursday Traffic Volume
- (000) PM Peak Friday Traffic Volume
- [000] Saturday Peak Hour Traffic Volume
- ← Lane Configuration



FIGURE 10
TOTAL SITE TRIP

TRANSPORTATION IMPACT STUDY
PROPOSED MASON - DIXON
RESORT AND CASINO
CUMBERLAND TOWNSHIP
ADAMS COUNTY, PA

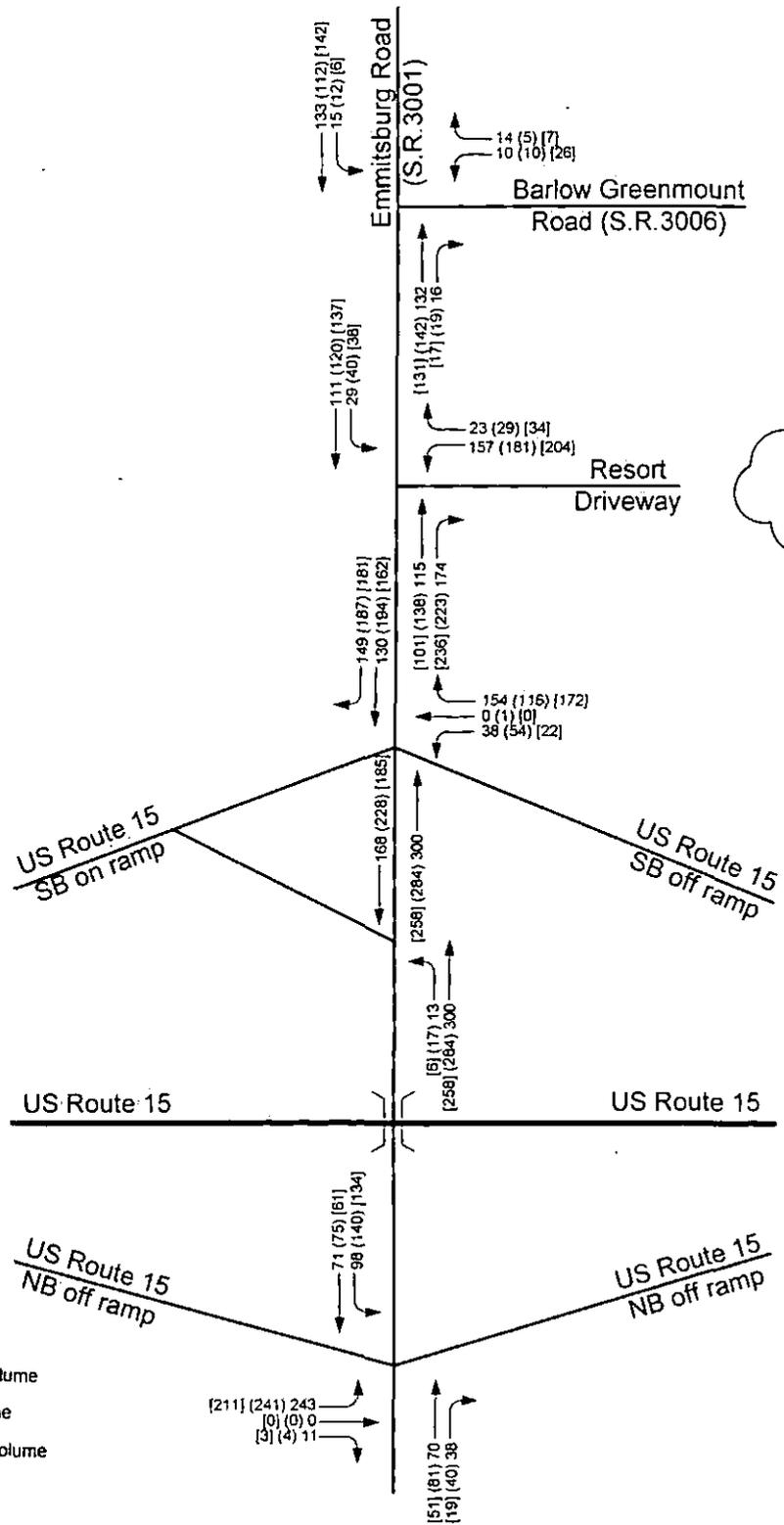
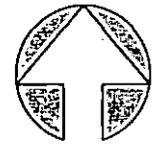


FIGURE 11

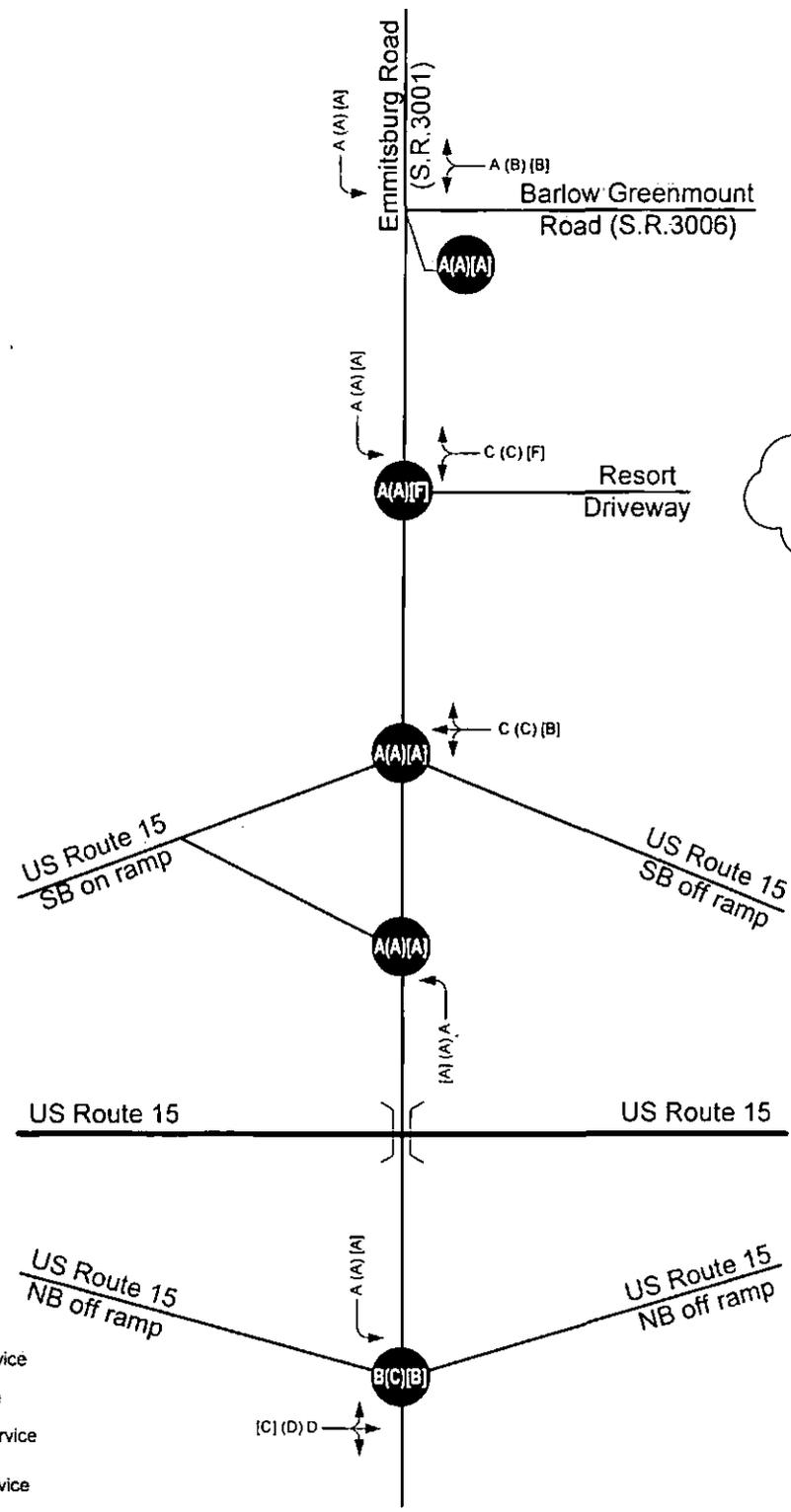
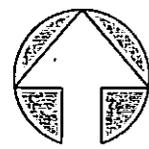
OPENING YEAR (2012)
TRAFFIC VOLUMES
WITH DEVELOPMENT

TRANSPORTATION IMPACT STUDY

PROPOSED MASON - DIXON
RESORT AND CASINO

CUMBERLAND TOWNSHIP
ADAMS COUNTY, PA





LEGEND

- Existing Street
- - - Proposed Street/Driveway
- 000 PM Peak Thursday Level of Service
- (000) PM Peak Friday Level of Service
- [000] Saturday Peak Hour Level of Service
- A(A)(A)** Overall Intersection Level of Service
- ← Lane Configuration

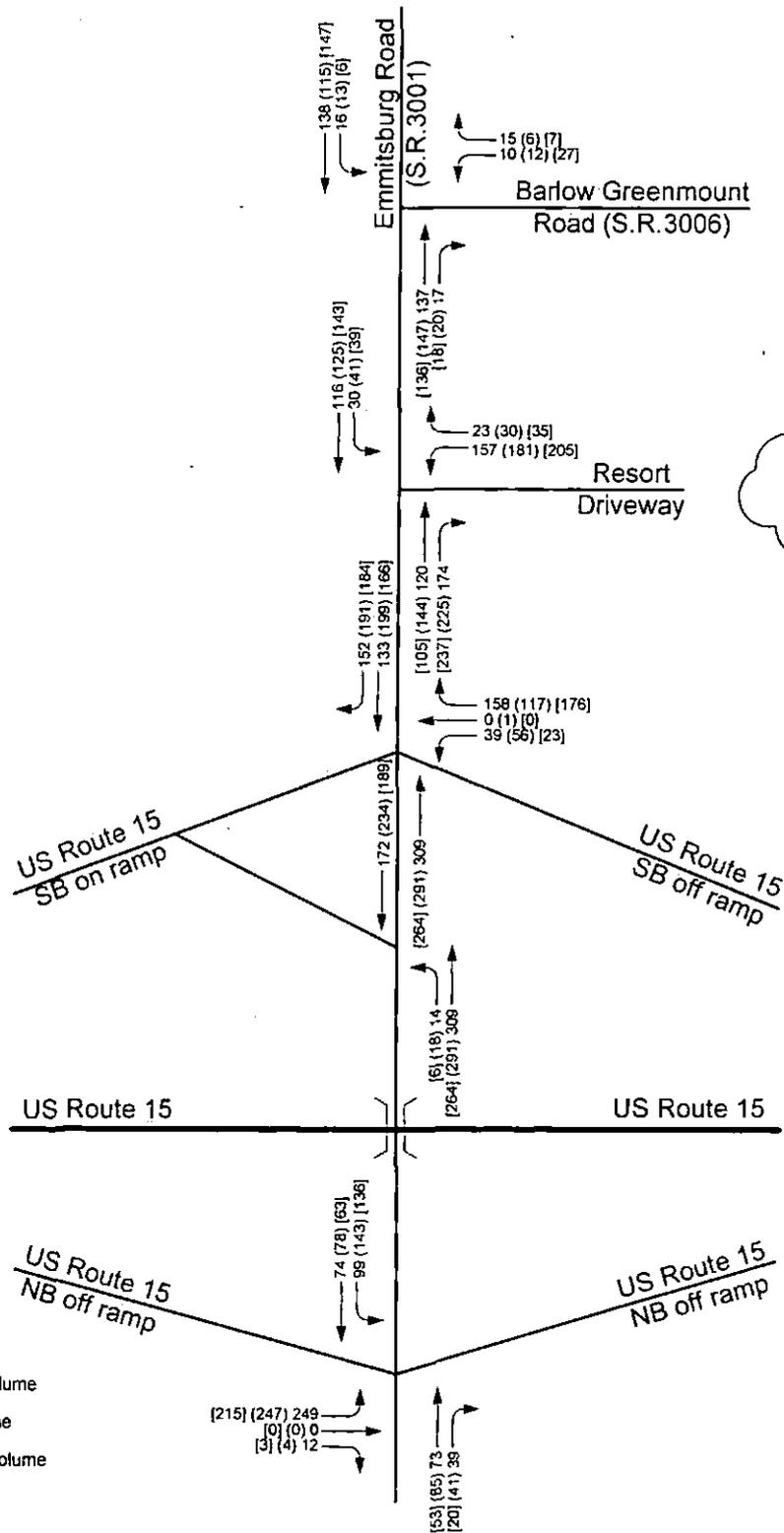


FIGURE 12
 OPENING YEAR (2012)
 LEVEL OF SERVICE
 WITH DEVELOPMENT

TRANSPORTATION IMPACT STUDY

 PROPOSED MASON - DIXON
 RESORT AND CASINO

 CUMBERLAND TOWNSHIP
 ADAMS COUNTY, PA



LEGEND

- Existing Street
- - - Proposed Street/Driveway
- 000 PM Peak Thursday Traffic Volume
- (000) PM Peak Friday Traffic Volume
- [000] Saturday Peak Hour Traffic Volume
- ← Lane Configuration

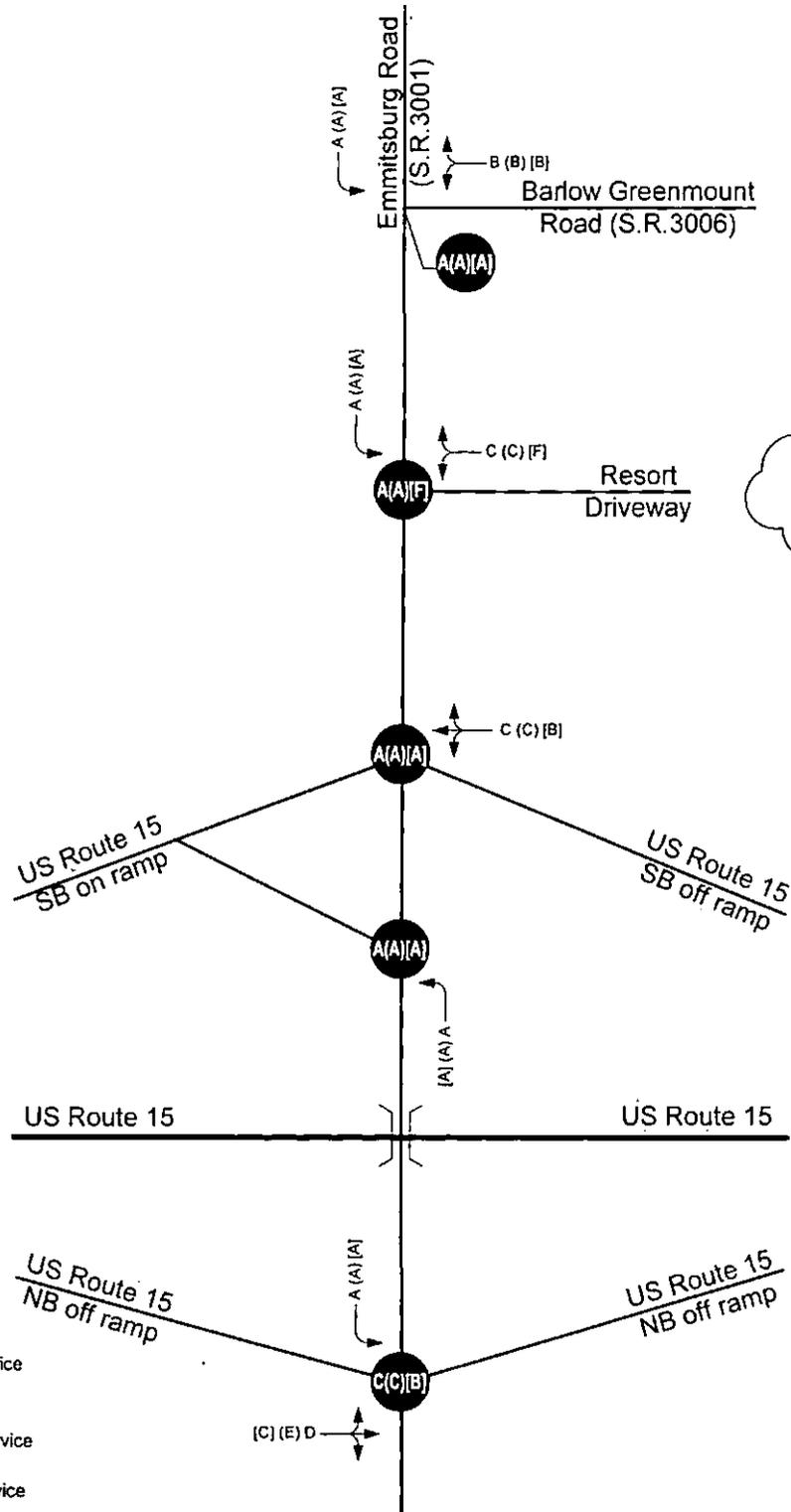
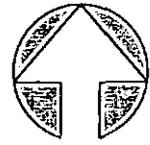


FIGURE 13
 HORIZON YEAR (2017)
 LEVEL OF SERVICE
 WITH DEVELOPMENT

TRANSPORTATION IMPACT STUDY

 PROPOSED MASON - DIXON
 RESORT AND CASINO

 CUMBERLAND TOWNSHIP
 ADAMS COUNTY, PA



LEGEND

- Existing Street
- - - Proposed Street/Driveway
- 000 PM Peak Thursday Level of Service
- (000) PM Peak Friday Level of Service
- [000] Saturday Peak Hour Level of Service
- A(A)(A)** Overall Intersection Level of Service
- ← Lane Configuration

FIGURE 14

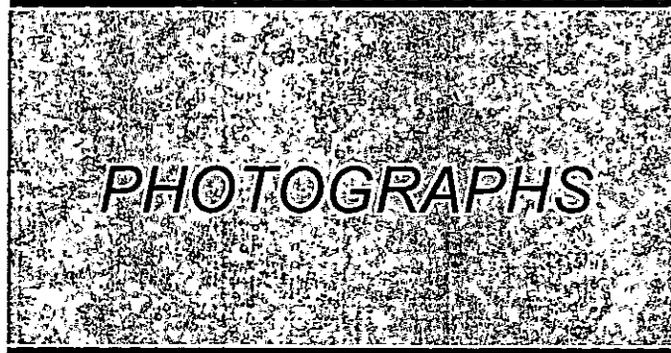
HORIZON YEAR (2017)
LEVEL OF SERVICE WITH
DEVELOPMENT

TRANSPORTATION IMPACT STUDY

PROPOSED MASON - DIXON
RESORT AND CASINO

CUMBERLAND TOWNSHIP
ADAMS COUNTY, PA





Photographs

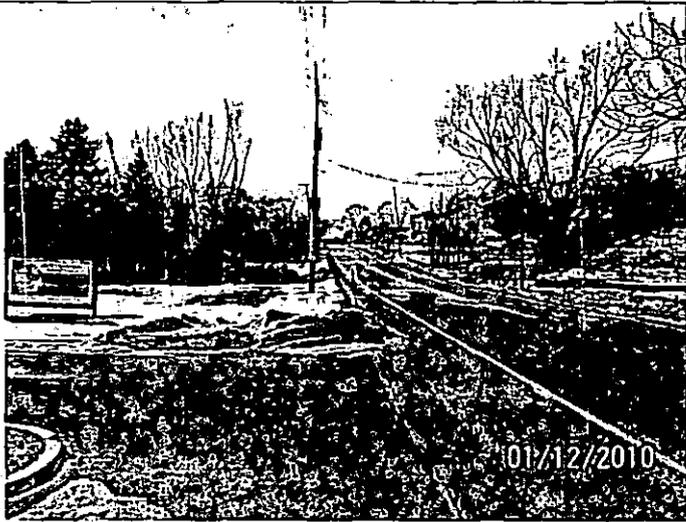
Mason-Dixon Resort and Casino



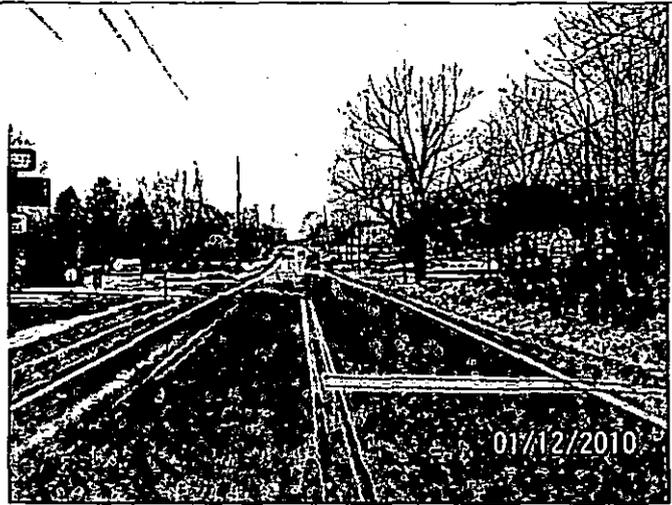
On Emmitsburg Rd looking north from Resort Driveway



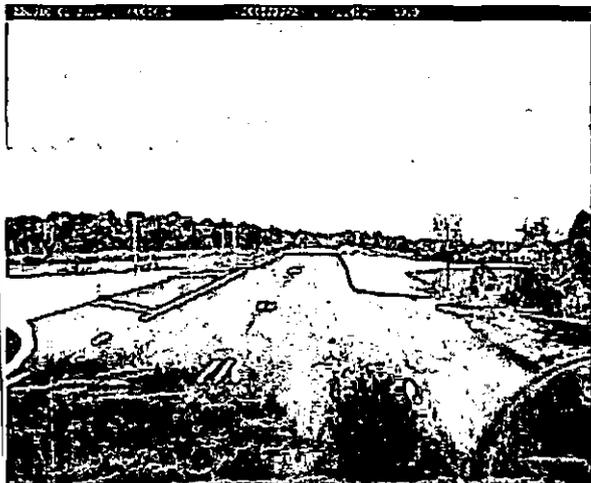
Looking east at Resort Driveway



On Emmitsburg Road looking south from Resort Driveway



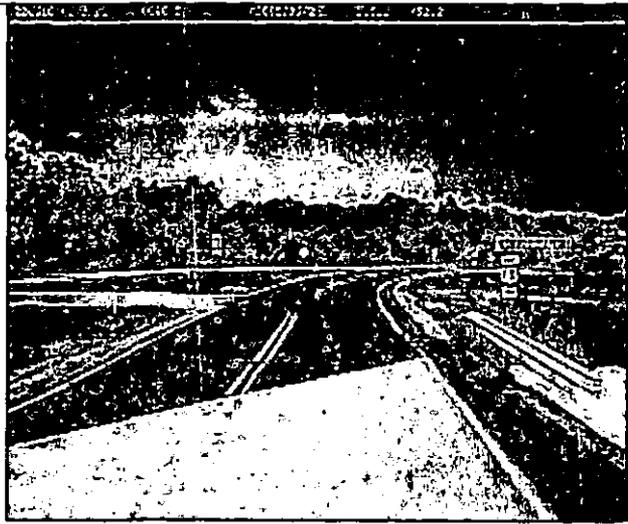
On Emmitsburg Rd looking south at Resort Driveway



On Emmitsburg Rd looking north at Route 15 NB Ramps



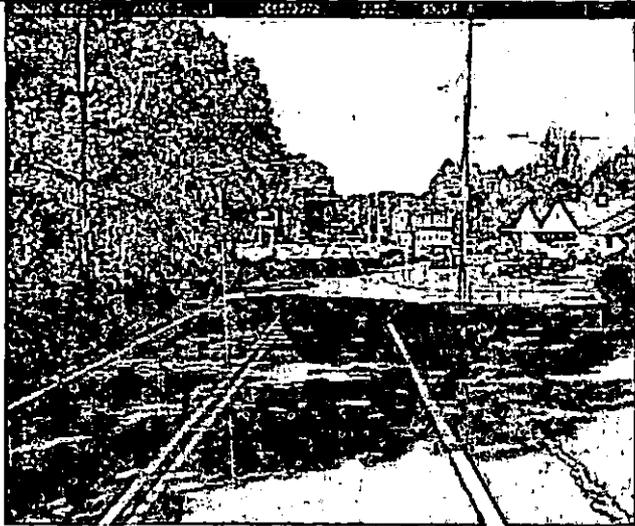
Looking on Route 15 NB Ramps at Emmitsburg Rd



On Emmitsburg Road looking at NBL onto SB Rt 15



On Emmitsburg Rd looking at Route 15 NB Ramps



On Emmitsburg Rd looking north at Barlow Rd

DRIVEWAY SIGHT DISTANCE MEASUREMENTS

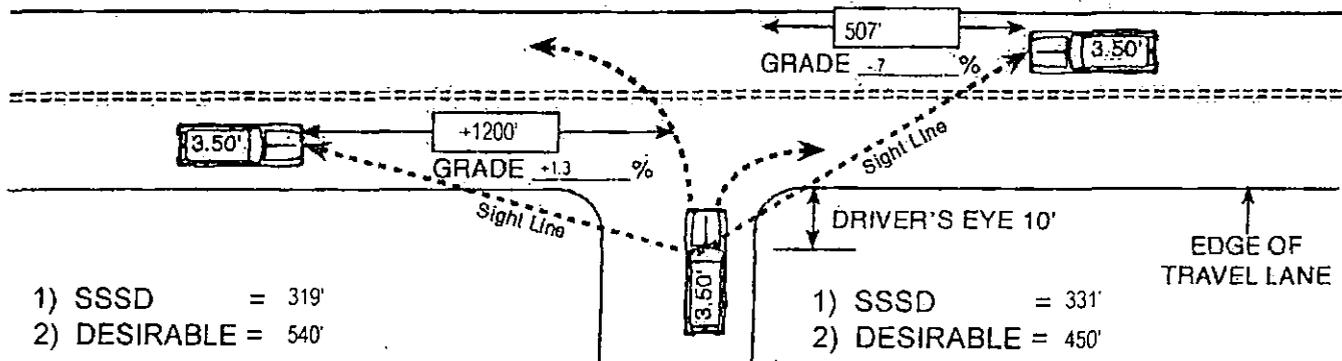
APPLICANT Mason Dixon Resort and Casino APPLICATION NO. 388.01.H.01

S.R. _____ SEG. _____ OFFSET _____ LEGAL SPEED LIMIT 40 mph

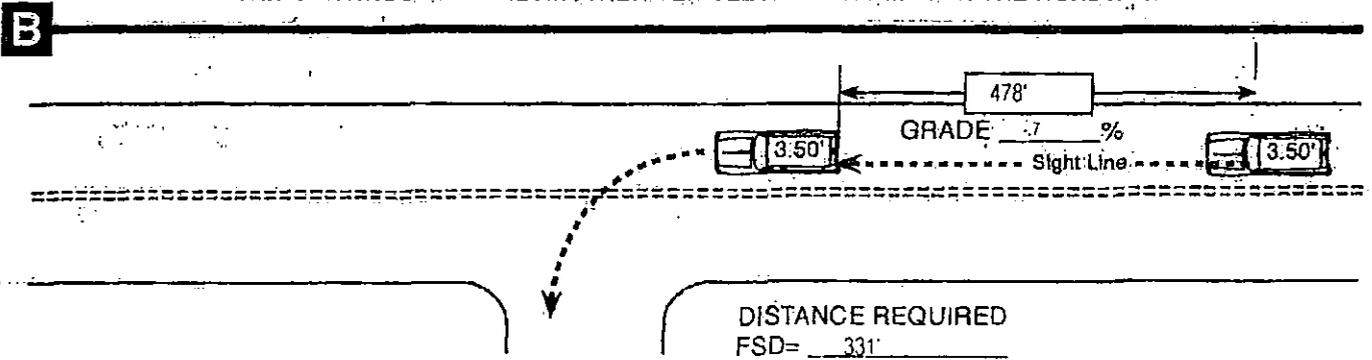
MEASURED BY Austin DATE 1/12/2010

FOR DEPARTMENT USE ONLY: Safe-Running Speed _____ 85th Percentile Speed 45 mph

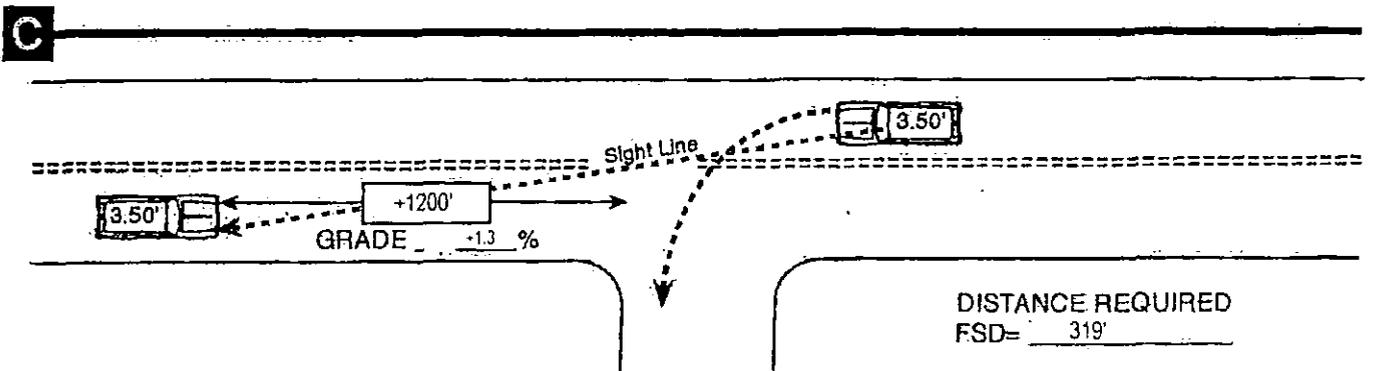
A LOCATION: Emmitsburg Road (S.R.3001) / Eisenhower - Allstar Driveway



THE MAXIMUM LENGTH OF ROADWAY ALONG WHICH A DRIVER AT A DRIVEWAY LOCATION CAN CONTINUOUSLY SEE ANOTHER VEHICLE APPROACHING ON THE ROADWAY.



THE MAXIMUM LENGTH OF ROADWAY ALONG WHICH A DRIVER ON THE ROADWAY CAN CONTINUOUSLY SEE THE REAR OF A VEHICLE WHICH IS LOCATED IN THE DRIVER'S TRAVEL LANE AND WHICH IS POSITIONED TO MAKE A LEFT TURN INTO A DRIVEWAY.



THE MAXIMUM LENGTH OF ROADWAY ALONG WHICH A DRIVER OF A VEHICLE INTENDING TO MAKE A LEFT TURN INTO A DRIVEWAY CAN CONTINUOUSLY SEE A VEHICLE APPROACHING FROM THE OPPOSITE DIRECTION.

- Source: 1) PA Code, Title 67, Chapter 441.8 h (1) (Table 1)
2) PA Code, Title 67, Chapter 441.8 h (2) (IV)

TURNING MOVEMENT
COUNTS/24-HOUR
VOLUMES



Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

Emmitsburg Rd / Barlow Greenmount Rd

Municipality: Cumberland Twp.

Day: Thursday

Counter: Steve

File Name : 3880111

Site Code : 03880101

Start Date : 2/25/2010

Page No : 1

Groups Printed - Passenger Vehicles - Trucks, Buses - Tractor Trailers

Start Time	Emmitsburg Road Southbound		Barlow Greenmount Road Westbound		Emmitsburg Road Northbound		Int. Total
	Thru	Left	Right	Left	Right	Thru	
15:00	20	0	0	2	3	16	41
15:15	11	1	2	1	3	21	39
15:30	19	1	2	3	2	24	51
15:45	17	1	1	5	0	19	43
Total	67	3	5	11	8	80	174
16:00	21	2	2	4	4	25	58
16:15	29	1	3	3	4	22	62
16:30	27	4	2	1	2	26	62
16:45	20	2	2	1	3	22	50
Total	97	9	9	9	13	95	232
17:00	23	6	5	2	3	30	69
17:15	19	2	2	3	3	23	52
17:30	20	0	1	2	3	26	52
17:45	21	2	0	1	1	22	47
Total	83	10	8	8	10	101	220
Grand Total	247	22	22	28	31	276	626
Apprch %	91.8	8.2	44	56	10.1	89.9	
Total %	39.5	3.5	3.5	4.5	5	44.1	
Passenger Vehicles	246	21	21	28	30	273	619
% Passenger Vehicles	99.6	95.5	95.5	100	96.8	98.9	98.9
Trucks, Buses	1	1	1	0	1	2	6
% Trucks, Buses	0.4	4.5	4.5	0	3.2	0.7	1
Tractor Trailers	0	0	0	0	0	1	1
% Tractor Trailers	0	0	0	0	0	0.4	0.2



Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

Emmitsburg Rd / Barlow Greenmount Rd

Municipality: Cumberland Twp.

Day: Thursday

Counter: Steve

File Name : 3880111

Site Code : 03880101

Start Date : 2/25/2010

Page No : 1

Groups Printed- Trucks, Buses - Tractor Trailers

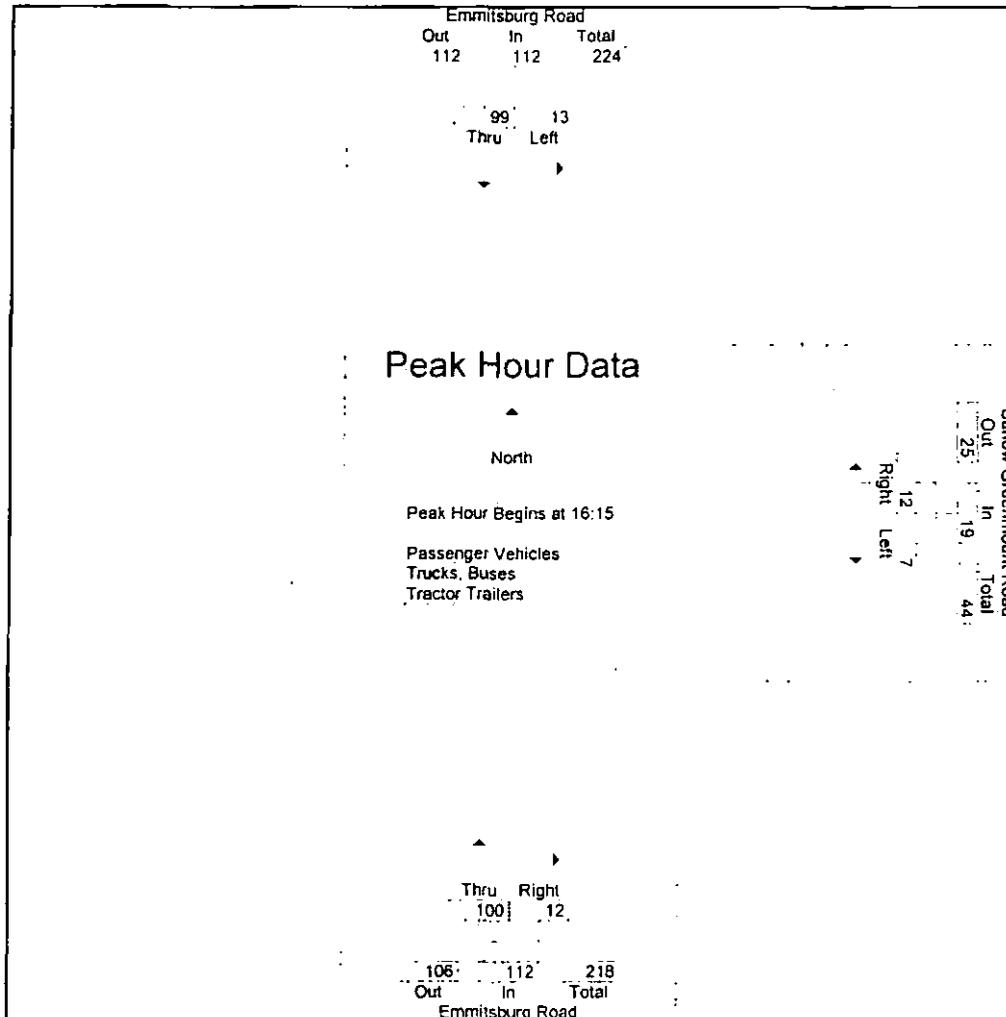
Start Time	Emmitsburg Road Southbound		Barlow Greenmount Road Westbound		Emmitsburg Road Northbound		Int.	Total
	Thru	Left	Right	Left	Right	Thru		
15:00	0	0	0	0	0	1		1
15:15	0	0	0	0	0	1		1
15:30	1	0	1	0	0	0		2
Total	1	0	1	0	0	2		4
16:00	0	1	0	0	1	0		2
16:30	0	0	0	0	0	1		1
Total	0	1	0	0	1	1		3
Grand Total	1	1	1	0	1	3		7
Apprch %	50	50	100	0	25	75		
Total %	14.3	14.3	14.3	0	14.3	42.9		
Trucks, Buses	1	1	1	0	1	2		6
% Trucks, Buses	100	100	100	0	100	66.7		85.7
Tractor Trailers	0	0	0	0	0	1		1
% Tractor Trailers	0	0	0	0	0	33.3		14.3



Transportation Resource Group, Inc.
 204 North George Street Suite 110
 York, PA 17401
 (717) 846-4600

File Name : 3880111
 Site Code : 03880101
 Start Date : 2/25/2010
 Page No : 2

Start Time	Emmitsburg Road Southbound			Barlow Greenmount Road Westbound			Emmitsburg Road Northbound			Int. Total
	Thru	Left	App. Total	Right	Left	App. Total	Right	Thru	App. Total	
Peak Hour Analysis From 15:00 to 17:45 - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 16:15										
16:15	29	1	30	3	3	6	4	22	26	62
16:30	27	4	31	2	1	3	2	26	28	62
16:45	20	2	22	2	1	3	3	22	25	50
17:00	23	6	29	5	2	7	3	30	33	69
Total Volume	99	13	112	12	7	19	12	100	112	243
% App. Total	88.4	11.6		63.2	36.8		10.7	89.3		
PHF	.853	.542	.903	.600	.583	.679	.750	.833	.848	.880





Transportation Resource Group, Inc.
 204 North George Street Suite 110
 York, PA 17401
 (717) 846-4660

Emmitsburg Rd / Barlow Greenmount Rd
 Municipality: Cumberland Twp.
 Day: Friday
 Counter: Joe

File Name : 3880111
 Site Code : 03880111
 Start Date : 3/5/2010
 Page No : 1

Groups Printed- Passenger Vehicles - Trucks, Buses - Tractor Trailers

Start Time	Emmitsburg Road Southbound		Barlow Greenmount Road Westbound		Emmitsburg Road Northbound		Int. Total
	Thru	Left	Right	Left	Right	Thru	
16:00	29	4	0	2	4	21	60
16:15	18	2	1	4	3	26	54
16:30	15	2	0	0	3	28	48
16:45	23	1	1	2	1	21	49
Total	85	9	2	8	11	96	211
17:00	20	5	2	2	2	31	62
17:15	21	2	2	4	9	26	64
17:30	18	3	1	3	5	14	44
17:45	11	1	2	2	4	30	50
Total	70	11	7	11	20	101	220
18:00	14	6	1	5	2	12	40
18:15	17	0	1	1	2	19	40
18:30	26	1	1	1	2	22	53
18:45	19	0	0	5	4	18	46
Total	76	7	3	12	10	71	179
Grand Total	231	27	12	31	41	268	610
Apprch %	89.5	10.5	27.9	72.1	13.3	86.7	
Total %	37.9	4.4	2	5.1	6.7	43.9	
Passenger Vehicles	230	27	12	30	37	266	602
% Passenger Vehicles	99.6	100	100	96.8	90.2	99.3	98.7
Trucks, Buses	1	0	0	1	4	2	8
% Trucks, Buses	0.4	0	0	3.2	9.8	0.7	1.3
Tractor Trailers	0	0	0	0	0	0	0
% Tractor Trailers	0	0	0	0	0	0	0



Transportation Resource Group, Inc.
 204 North George Street Suite 110
 York, PA 17401
 (717) 846-4660

Emmitsburg Rd / Barlow Greenmount Rd
 Municipality: Cumberland Twp.
 Day: Friday
 Counter: Joe

File Name : 38801111
 Site Code : 03880111
 Start Date : 3/5/2010
 Page No : 1

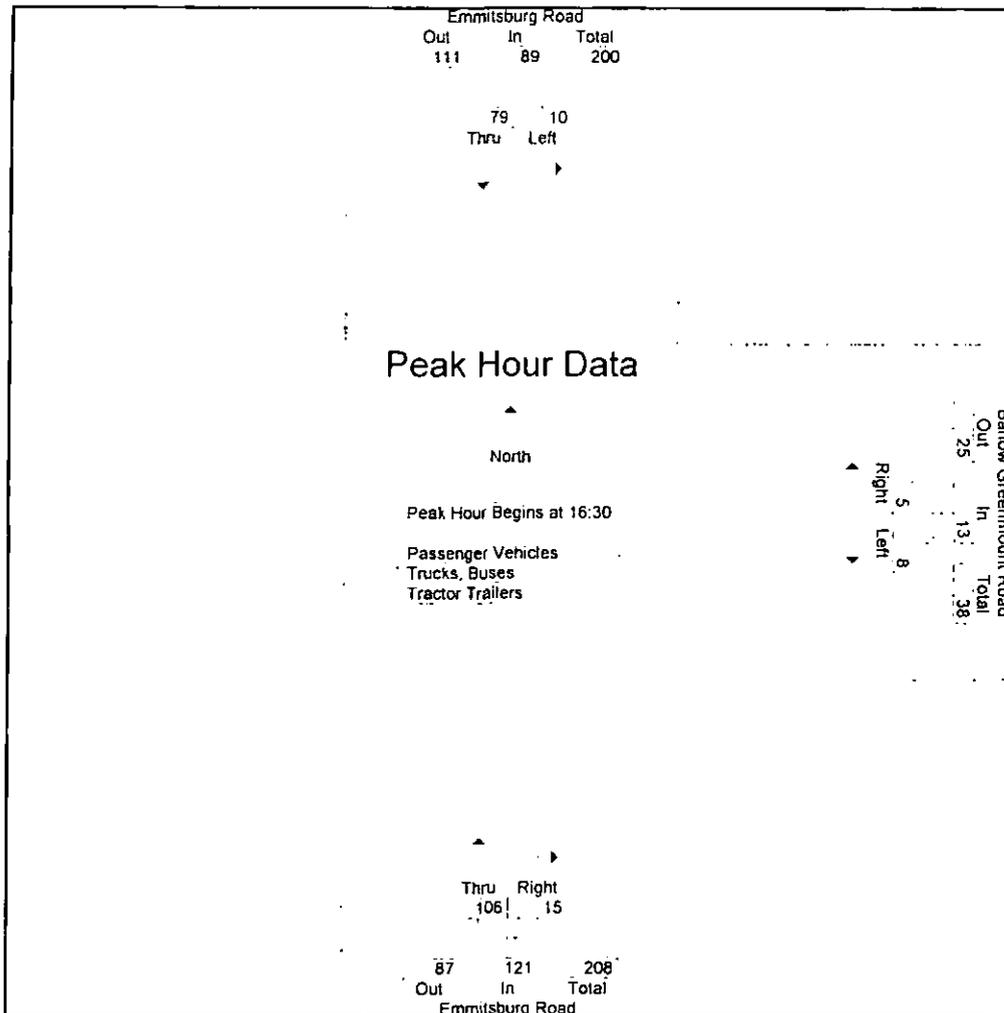
Start Time	Groups Printed- Trucks, Buses - Tractor Trailers						Int. Total
	Emmitsburg Road Southbound Thru	Left	Barlow Greenmount Road Westbound Right	Left	Emmitsburg Road Northbound Right	Thru	
16:00	0	0	0	0	1	0	1
16:45	1	0	0	0	1	0	2
Total	1	0	0	0	2	0	3
17:15	0	0	0	0	1	0	1
17:45	0	0	0	0	1	1	2
Total	0	0	0	0	2	1	3
18:00	0	0	0	0	0	1	1
18:30	0	0	0	1	0	0	1
Total	0	0	0	1	0	1	2
Grand Total	1	0	0	1	4	2	8
Apprch %	100	0	0	100	66.7	33.3	
Total %	12.5	0	0	12.5	50	25	
Trucks, Buses	1	0	0	1	4	2	8
% Trucks, Buses	100	0	0	100	100	100	100
Tractor Trailers	0	0	0	0	0	0	0
% Tractor Trailers	0	0	0	0	0	0	0



Transportation Resource Group, Inc.
 204 North George Street Suite 110
 York, PA 17401
 (717) 846-4660

File Name : 38801111
 Site Code : 03880111
 Start Date : 3/5/2010
 Page No : 2

Start Time	Emmitsburg Road Southbound			Barlow Greenmount Road Westbound			Emmitsburg Road Northbound			Int. Total
	Thru	Left	App. Total	Right	Left	App. Total	Right	Thru	App. Total	
Peak Hour Analysis From 16:00 to 18:45 - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 16:30										
16:30	15	2	17	0	0	0	3	28	31	48
16:45	23	1	24	1	2	3	1	21	22	49
17:00	20	5	25	2	2	4	2	31	33	62
17:15	21	2	23	2	4	6	9	26	35	64
Total Volume	79	10	89	5	8	13	15	106	121	223
% App. Total	88.8	11.2		38.5	61.5		12.4	87.6		
PHF	.859	.500	.890	.625	.500	.542	.417	.855	.864	.871





Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

Emmitsburg Rd / Barlow Greenmount Rd

Municipality: Cumberland Twp.

Day: Saturday

Counter: Steve

File Name : 38801S1

Site Code : 03880101

Start Date : 2/27/2010

Page No : 1

Groups Printed- Passenger Vehicles - Trucks, Buses - Tractor Trailers

Start Time	Emmitsburg Road Southbound		Barlow Greenmount Road Westbound		Emmitsburg Road Northbound		Thru	Int. Total
	Thru	Left	Right	Left	Right	Right		
12:00	29	1	2	4	4	32	72	
12:15	24	1	2	3	2	21	53	
12:30	17	0	1	4	2	19	43	
12:45	24	1	0	2	2	19	48	
Total	94	3	5	13	10	91	216	
13:00	23	2	3	1	3	25	57	
13:15	32	1	1	1	1	16	52	
13:30	22	1	0	10	1	22	56	
13:45	27	1	1	2	3	31	65	
Total	104	5	5	14	8	94	230	
14:00	22	1	4	3	5	23	58	
14:15	31	2	1	5	4	20	63	
14:30	21	2	2	5	1	16	47	
14:45	26	0	0	2	2	23	53	
Total	100	5	7	15	12	82	221	
Grand Total	298	13	17	42	30	267	667	
Apprch %	95.8	4.2	28.8	71.2	10.1	89.9		
Total %	44.7	1.9	2.5	6.3	4.5	40		
Passenger Vehicles	288	13	17	42	30	258	648	
% Passenger Vehicles	96.6	100	100	100	100	96.6	97.2	
Trucks, Buses	10	0	0	0	0	9	19	
% Trucks, Buses	3.4	0	0	0	0	3.4	2.8	
Tractor Trailers	0	0	0	0	0	0	0	
% Tractor Trailers	0	0	0	0	0	0	0	



Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

Emmitsburg Rd / Barlow Greenmount Rd

Municipality: Cumberland Twp.

Day: Saturday

Counter: Steve

File Name : 38801S1

Site Code : 03880101

Start Date : 2/27/2010

Page No : 1

Groups Printed- Trucks, Buses - Tractor Trailers

Start Time	Emmitsburg Road Southbound		Barlow Greenmount Road Westbound		Emmitsburg Road Northbound		Int. Total
	Thru	Left	Right	Left	Right	Thru	
12:00	1	0	0	0	0	1	2
12:30	0	0	0	0	0	1	1
12:45	2	0	0	0	0	0	2
Total	3	0	0	0	0	2	5
13:00	0	0	0	0	0	1	1
13:15	0	0	0	0	0	2	2
13:30	0	0	0	0	0	3	3
13:45	0	0	0	0	0	1	1
Total	0	0	0	0	0	7	7
14:00	1	0	0	0	0	0	1
14:15	3	0	0	0	0	0	3
14:30	2	0	0	0	0	0	2
14:45	1	0	0	0	0	0	1
Total	7	0	0	0	0	0	7
Grand Total	10	0	0	0	0	9	19
Apprch %	100	0	0	0	0	100	
Total %	52.6	0	0	0	0	47.4	
Trucks, Buses	10	0	0	0	0	9	19
% Trucks, Buses	100	0	0	0	0	100	100
Tractor Trailers	0	0	0	0	0	0	0
% Tractor Trailers	0	0	0	0	0	0	0



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York, PA 17401

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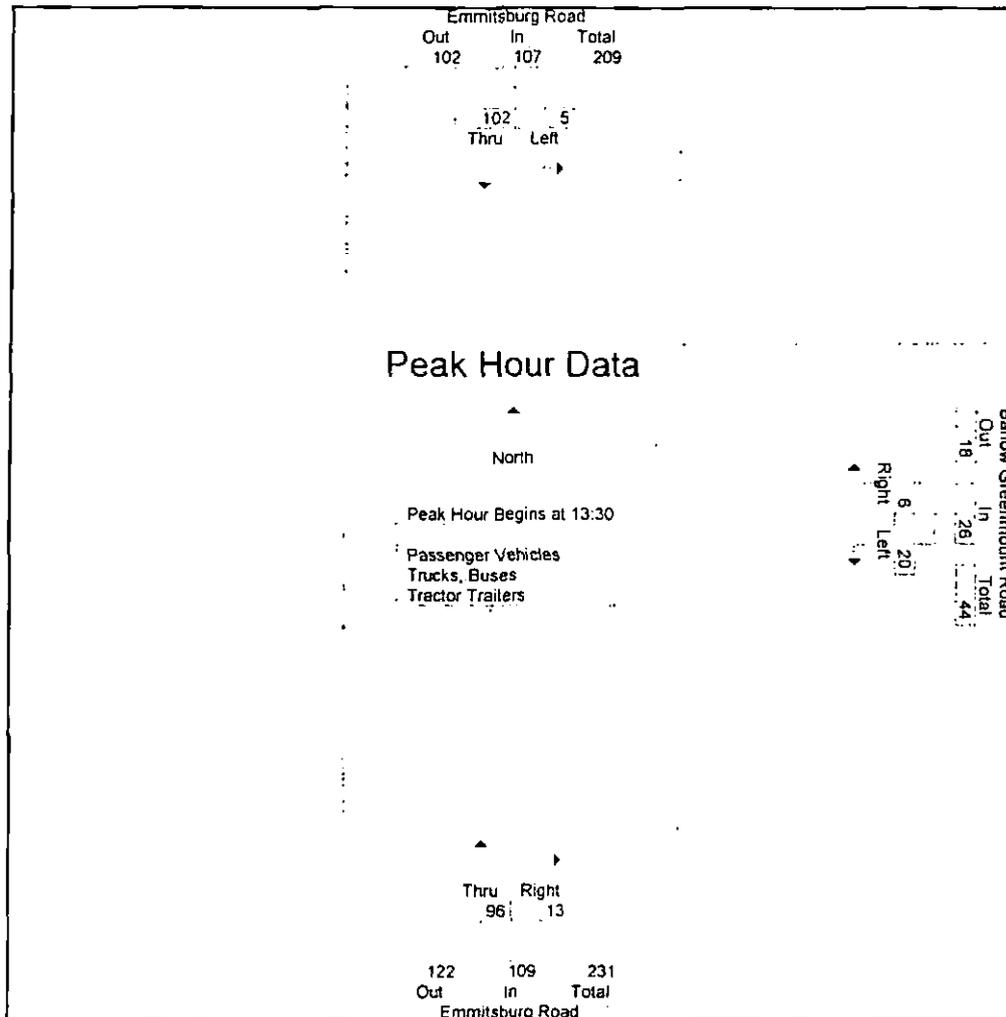
File Name : 38801S1

Site Code : 03880101

Start Date : 2/27/2010

Page No : 2

Start Time	Emmitsburg Road Southbound			Barlow Greenmount Road Westbound			Emmitsburg Road Northbound			Int. Total
	Thru	Left	App. Total	Right	Left	App. Total	Right	Thru	App. Total	
Peak Hour Analysis From 12:00 to 14:45 - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 13:30										
13:30	22	1	23	0	10	10	1	22	23	56
13:45	27	1	28	1	2	3	3	31	34	65
14:00	22	1	23	4	3	7	5	23	28	58
14:15	31	2	33	1	5	6	4	20	24	63
Total Volume	102	5	107	6	20	26	13	96	109	242
% App. Total	95.3	4.7		23.1	76.9		11.9	88.1		
PHF	.823	.625	.811	.375	.500	.650	.650	.774	.801	.931





Transportation Resource Group, Inc.
 204 North George Street Suite 110
 York, PA 17401
 (717) 846-4660

Location: Emmitsburg Rd / Eisenhower Drwy
 Municipality: Cumberland Twp.
 Day: Thursday
 Counter: Steve

File Name : 3880111
 Site Code : 03880101
 Start Date : 1/14/2010
 Page No : 1

Start Time	Emmitsburg Road (S.R.3001)		Eisenhower / Allstar Driveway		Emmitsburg Road (S.R.3001)		Int. Total
	Southbound		Westbound		Northbound		
	Thru	Left	Right	Left	Right	Thru	
15:00	19	2	0	4	1	15	41
15:15	21	1	3	1	2	20	48
15:30	16	3	6	2	0	23	50
15:45	23	1	11	5	1	16	57
Total	79	7	20	12	4	74	196
16:00	19	3	2	3	4	17	48
16:15	11	4	2	4	1	20	42
16:30	17	3	1	1	4	15	41
16:45	27	2	1	2	0	29	61
Total	74	12	6	10	9	81	192
17:00	21	3	1	0	1	25	51
17:15	23	1	1	2	1	23	51
17:30	24	3	2	1	4	21	55
17:45	14	2	0	1	10	19	46
Total	82	9	4	4	16	88	203
Grand Total	235	28	30	26	29	243	591
Apprch %	89.4	10.6	53.6	46.4	10.7	89.3	
Total %	39.8	4.7	5.1	4.4	4.9	41.1	
Passenger Vehicles	233	28	30	26	29	241	587
% Passenger Vehicles	99.1	100	100	100	100	99.2	99.3
Trucks, Buses	2	0	0	0	0	2	4
% Trucks, Buses	0.9	0	0	0	0	0.8	0.7
Tractor Trailers	0	0	0	0	0	0	0
% Tractor Trailers	0	0	0	0	0	0	0



Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

Location: Emmitsburg Rd / Eisenhower Drwy

Municipality: Cumberland Twp.

Day: Thursday

Counter: Steve

File Name : 3880111

Site Code : 03880101

Start Date : 1/14/2010

Page No : 1

Groups Printed- Trucks, Buses - Tractor Trailers

Start Time	Emmitsburg Road (S.R.3001)		Eisenhower / Allstar Driveway		Emmitsburg Road (S.R.3001)		Int. Total
	Southbound	Left	Westbound	Left	Northbound	Thru	
15:00	0	0	0	0	0	1	1
15:30	1	0	0	0	0	0	1
Total	1	0	0	0	0	1	2
16:00	0	0	0	0	0	1	1
16:45	1	0	0	0	0	0	1
Total	1	0	0	0	0	1	2
Grand Total	2	0	0	0	0	2	4
Apprch %	100	0	0	0	0	100	
Total %	50	0	0	0	0	50	
Trucks, Buses	2	0	0	0	0	2	4
% Trucks, Buses	100	0	0	0	0	100	100
Tractor Trailers	0	0	0	0	0	0	0
% Tractor Trailers	0	0	0	0	0	0	0



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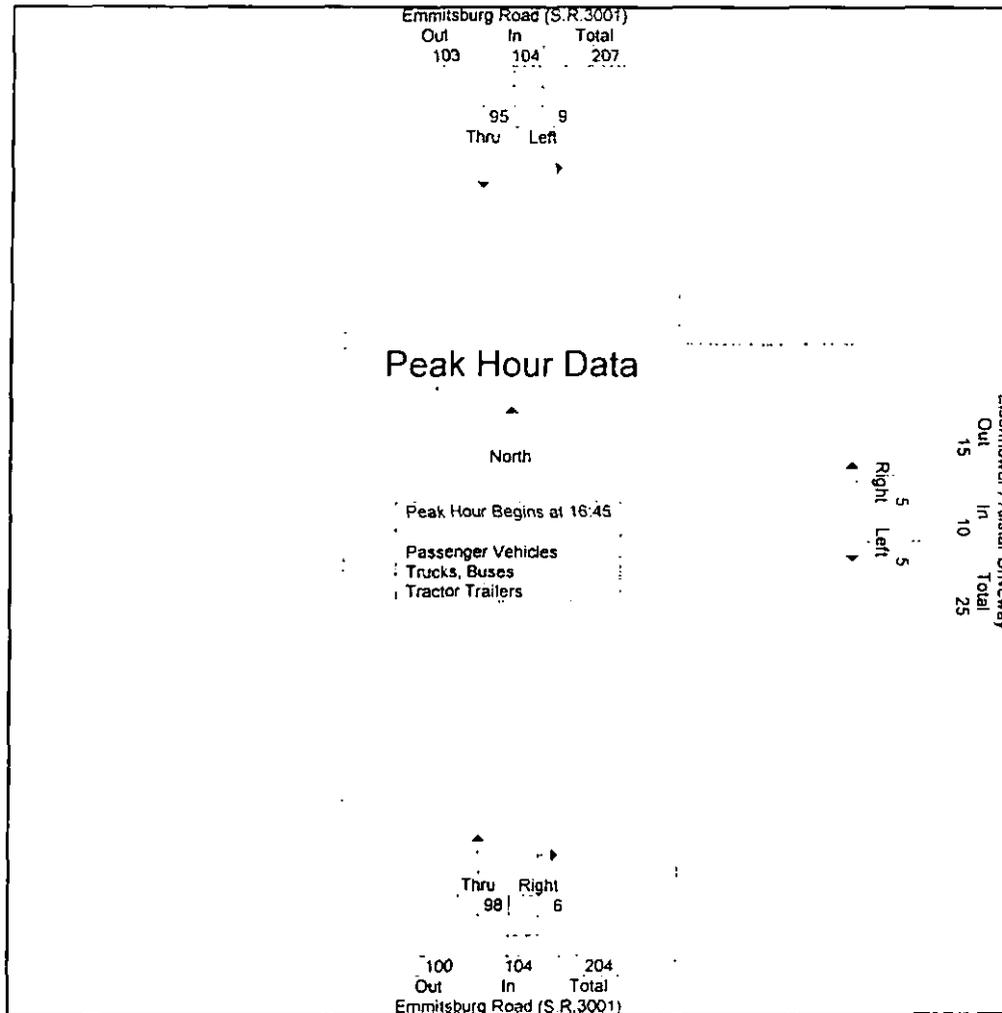
File Name : 3880111

Site Code : 03880101

Start Date : 1/14/2010

Page No : 2

Start Time	Emmitsburg Road (S.R.3001) Southbound			Eisenhower / Allstar Driveway Westbound			Emmitsburg Road (S.R.3001) Northbound			Int. Total
	Thru	Left	App. Total	Right	Left	App. Total	Right	Thru	App. Total	
Peak Hour Analysis From 15:00 to 17:45 - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 16:45										
16:45	27	2	29	1	2	3	0	29	29	61
17:00	21	3	24	1	0	1	1	25	26	51
17:15	23	1	24	1	2	3	1	23	24	51
17:30	24	3	27	2	1	3	4	21	25	55
Total Volume	95	9	104	5	5	10	6	98	104	218
% App. Total	91.3	8.7		50	50		5.8	94.2		
PHF	.880	.750	.897	.625	.625	.833	.375	.845	.897	.893



PEDESTRIAN COUNT RECAP SHEET

Location: Emmitsburg Rd / Eisenhower / Allstar Driveway

Day/Date: Thursday / January 14, 2010

County: Adams

Observer: Steve

Municipality: Cumberland Twp.

File Name: 3880111ped

TIME PERIOD	Emmitsburg Road (S.R.3001)			Eisenhower / Allstar Driveway			Total All Directions
	NORTH CROSSWALK	SOUTH CROSSWALK	Total NB / SB	EAST CROSSWALK	WEST CROSSWALK	Total EB / WB	
3:00PM - 3:15PM	0	0	0	0	0	0	0
3:15PM - 3:30PM	0	0	0	0	0	0	0
3:30PM - 3:45PM	0	4	4	0	0	0	4
3:45PM - 4:00PM	0	0	0	0	0	0	0
4:00PM - 4:15PM	0	0	0	0	0	0	0
4:15PM - 4:30PM	0	0	0	0	0	0	0
4:30PM - 4:45PM	0	0	0	0	0	0	0
4:45PM - 5:00PM	0	0	0	0	0	0	0
5:00PM - 5:15PM	0	0	0	0	0	0	0
5:15PM - 5:30PM	0	0	0	0	0	0	0
5:30PM - 5:45PM	0	0	0	0	0	0	0
5:45PM - 6:00PM	0	0	0	0	0	0	0
TOTAL PEDS	0	4	4	0	0	0	4

	PM PEAK HOUR (3:00 PM to 6:00 PM)
Peak Pedestrian Hour	3:30 PM to 4:30 PM
Peak North Crosswalk Total	0
Peak South Crosswalk Total	4
Peak East Crosswalk Total	0
Peak West Crosswalk Total	0
Peak Hour Total	4

* BUS STOP DIRECTLY ACROSS FROM EISENHOWER / ALLSTAR DRIVEWAY.

1448 - 5 STUDENTS

1543 - 4 STUDENT



Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

Location: Emmitsburg Rd / Eisenhower Drw

Municipality: Cumberland Twp.

Day: Friday

Counter: Steve

File Name : 3880112

Site Code : 03880102

Start Date : 1/15/2010

Page No : 1

Groups Printed- Passenger Vehicles - Trucks, Buses - Tractor Trailers

Start Time	Emmitsburg Road (S.R.3001) Southbound		Eisenhower / Allstar Driveway Westbound		Emmitsburg Road (S.R.3001) Northbound		Int. Total
	Thru	Left	Right	Left	Right	Thru	
16:00	18	3	1	1	5	31	59
16:15	23	3	4	1	8	31	70
16:30	30	2	1	0	8	33	74
16:45	32	8	2	1	4	23	70
Total	103	16	8	3	25	118	273
17:00	20	4	3	2	5	23	57
17:15	21	6	4	2	7	22	62
17:30	23	1	2	0	4	29	59
17:45	23	7	0	1	6	27	64
Total	87	18	9	5	22	101	242
18:00	21	4	2	2	7	16	52
18:15	13	2	1	2	1	15	34
18:30	21	3	3	1	8	24	60
18:45	14	2	1	0	8	12	37
Total	69	11	7	5	24	67	183
Grand Total	259	45	24	13	71	286	698
Apprch %	85.2	14.8	64.9	35.1	19.9	80.1	
Total %	37.1	6.4	3.4	1.9	10.2	41	
Passenger Vehicles	258	45	24	13	71	285	696
% Passenger Vehicles	99.6	100	100	100	100	99.7	99.7
Trucks, Buses	0	0	0	0	0	1	1
% Trucks, Buses	0	0	0	0	0	0.3	0.1
Tractor Trailers	1	0	0	0	0	0	1
% Tractor Trailers	0.4	0	0	0	0	0	0.1



Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

Location: Emmitsburg Rd / Eisenhower Drw

Municipality: Cumberland Twp.

Day: Friday

Counter: Steve

File Name : 3880112

Site Code : 03880102

Start Date : 1/15/2010

Page No : 1

Groups Printed- Trucks, Buses - Tractor Trailers

Start Time	Emmitsburg Road (S.R.3001)		Eisenhower / Allstar Driveway		Emmitsburg Road (S.R.3001)		Int. Total
	Southbound	Left	Westbound	Left	Northbound	Thru	
16:00	0	0	0	0	0	1	1
Total	0	0	0	0	0	1	1
17:15	1	0	0	0	0	0	1
Total	1	0	0	0	0	0	1
Grand Total	1	0	0	0	0	1	2
Apprch %	100	0	0	0	0	100	
Total %	50	0	0	0	0	50	
Trucks, Buses	0	0	0	0	0	1	1
% Trucks, Buses	0	0	0	0	0	100	50
Tractor Trailers	1	0	0	0	0	0	1
% Tractor Trailers	100	0	0	0	0	0	50



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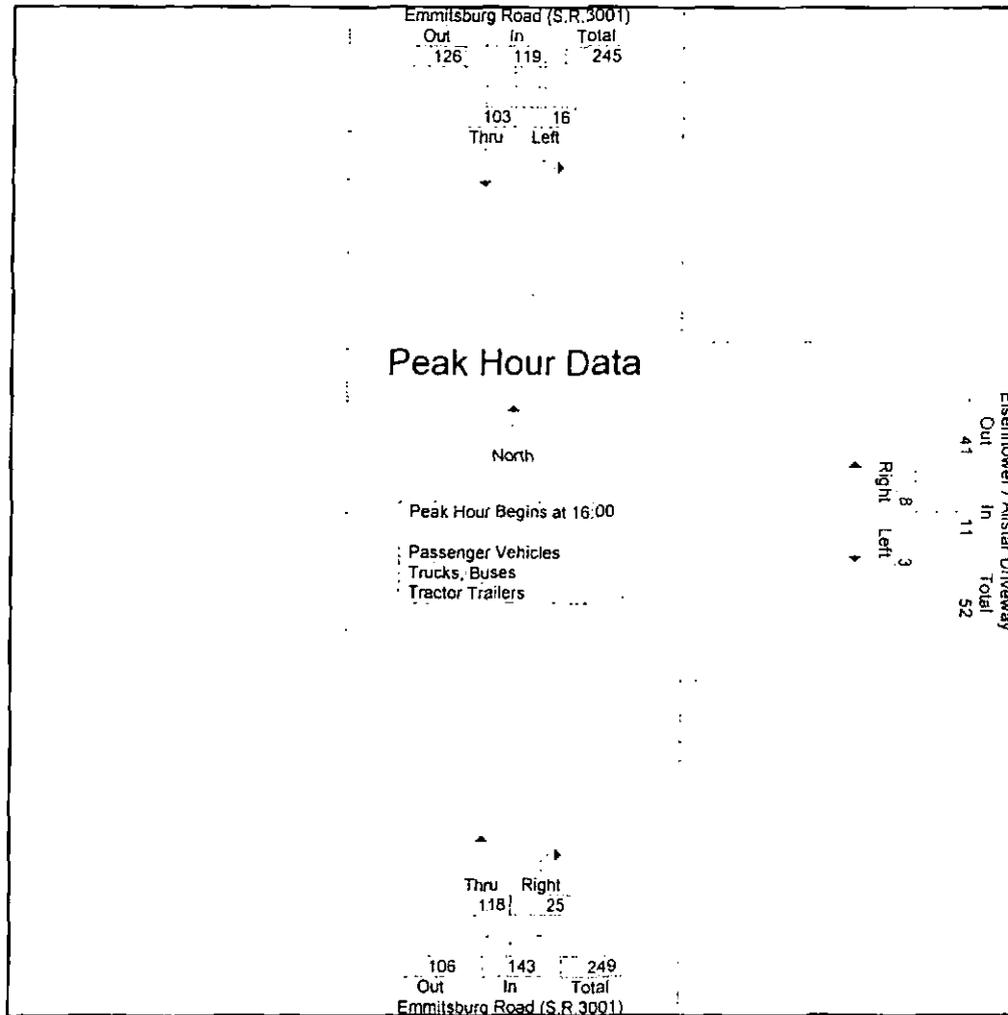
File Name : 3880112

Site Code : 03880102

Start Date : 1/15/2010

Page No : 2

Start Time	Emmitsburg Road (S.R.3001) Southbound			Eisenhower / Altstar Driveway Westbound			Emmitsburg Road (S.R.3001) Northbound			Int. Total
	Thru	Left	App. Total	Right	Left	App. Total	Right	Thru	App. Total	
Peak Hour Analysis From 16:00 to 18:45 - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 16:00										
16:00	18	3	21	1	1	2	5	31	36	59
16:15	23	3	26	4	1	5	8	31	39	70
16:30	30	2	32	1	0	1	8	33	41	74
16:45	32	8	40	2	1	3	4	23	27	70
Total Volume	103	16	119	8	3	11	25	118	143	273
% App. Total	86.6	13.4		72.7	27.3		17.5	82.5		
PHF	.805	.500	.744	.500	.750	.550	.781	.894	.872	.922



PEDESTRIAN COUNT RECAP SHEET

Location: Emmitsburg Rd / Eisenhower / Allstar Driveway

Day/Date: Friday / January 15, 2010

County: Adams

Observer: Steve

Municipality: Cumberland Twp.

File Name: 3880112ped

TIME PERIOD			Emmitsburg Road (S.R.3001)			Eisenhower / Allstar Driveway			Total All Directions
			NORTH CROSSWALK	SOUTH CROSSWALK	Total NB / SB	EAST CROSSWALK	WEST CROSSWALK	Total EB / WB	
4:00PM	-	4:15PM	0	0	0	0	0	0	0
4:15PM	-	4:30PM	0	0	0	0	0	0	0
4:30PM	-	4:45PM	0	0	0	0	0	0	0
4:45PM	-	5:00PM	0	0	0	0	0	0	0
5:00PM	-	5:15PM	0	0	0	0	0	0	0
5:15PM	-	5:30PM	0	0	0	0	0	0	0
5:30PM	-	5:45PM	0	0	0	0	0	0	0
5:45PM	-	6:00PM	0	0	0	0	0	0	0
6:00PM	-	6:15PM	0	0	0	0	0	0	0
6:15PM	-	6:30PM	0	0	0	0	0	0	0
6:30PM	-	6:45PM	0	0	0	0	0	0	0
6:45PM	-	7:00PM	0	0	0	0	0	0	0
TOTAL PEDS			0	0	0	0	0	0	0

	PM PEAK HOUR (4:00 PM to 7:00 PM)
Peak Pedestrian Hour	NA
Peak North Crosswalk Total	0
Peak South Crosswalk Total	0
Peak East Crosswalk Total	0
Peak West Crosswalk Total	0
Peak Hour Total	0



Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-1660

Location: Emmitsburg Rd / Eisenhower Drw
 Municipality: Cumberland Twp.
 Day: Saturday
 Counter: Steve

File Name : 3880113
 Site Code : 03880103
 Start Date : 1/16/2010
 Page No : 1

Groups Printed- Passenger Vehicles - Trucks, Buses - Tractor Trailers

Emmitsburg Road (S.R.3001) Eisenhower / Allstar Driveway Emmitsburg Road (S.R.3001)

Southbound

Westbound

Northbound

Start Time	Thru	Left	Right	Left	Right	Thru	Int. Total
12:00	19	2	4	3	3	17	48
12:15	18	5	6	4	1	27	61
12:30	28	0	3	2	1	24	58
12:45	17	3	4	1	0	18	43
Total	82	10	17	10	5	86	210
13:00	35	3	2	6	2	23	71
13:15	27	3	2	2	2	17	53
13:30	33	0	4	0	3	14	54
13:45	22	5	2	1	1	32	63
Total	117	11	10	9	8	86	241
14:00	24	3	5	1	4	16	53
14:15	27	2	0	1	3	17	50
14:30	20	1	5	0	1	31	58
14:45	23	2	1	0	2	11	39
Total	94	8	11	2	10	75	200
Grand Total	293	29	38	21	23	247	651
Apprch %	91	9	64.4	35.6	8.5	91.5	
Total %	45	4.5	5.8	3.2	3.5	37.9	
Passenger Vehicles	292	29	38	21	23	247	650
% Passenger Vehicles	99.7	100	100	100	100	100	99.8
Trucks, Buses	1	0	0	0	0	0	1
% Trucks, Buses	0.3	0	0	0	0	0	0.2
Tractor Trailers	0	0	0	0	0	0	0
% Tractor Trailers	0	0	0	0	0	0	0



Transportation Resource Group, Inc.

204 North George Street Suite 110

Location: Emmitsburg Rd / Eisenhower Drw

York, PA 17401

File Name : 3880113

Municipality: Cumberland Twp.

(717) 846-4660

Site Code : 03880103

Day: Saturday

Start Date : 1/16/2010

Counter: Steve

Page No : 1

Groups Printed- Trucks, Buses - Tractor Trailers

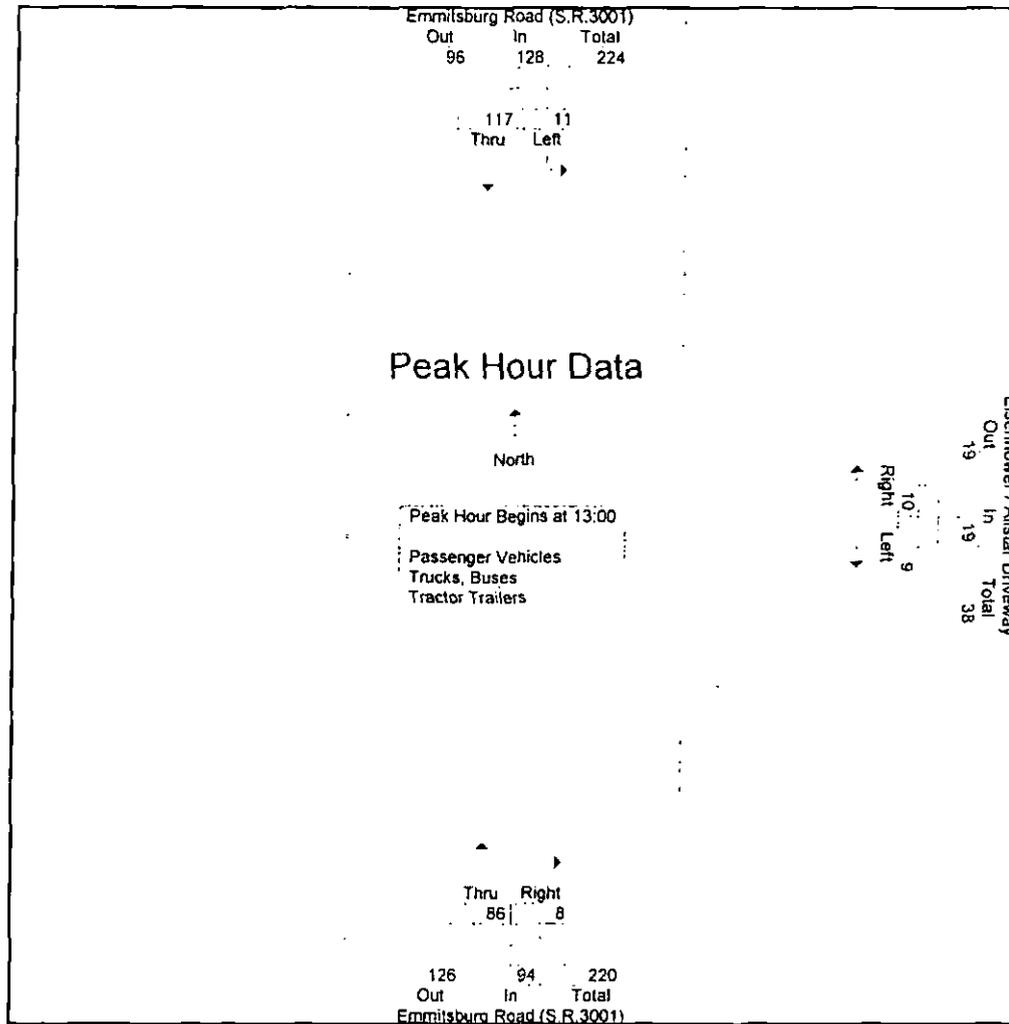
Start Time	Emmitsburg Road (S.R.3001) Southbound		Eisenhower / Allstar Driveway Westbound		Emmitsburg Road (S.R.3001) Northbound		Int. Total
	Thru	Left	Right	Left	Right	Thru	
13:00	1	0	0	0	0	0	1
Total	1	0	0	0	0	0	1
Grand Total	1	0	0	0	0	0	1
Apprch %	100	0	0	0	0	0	
Total %	100	0	0	0	0	0	
Trucks, Buses	1	0	0	0	0	0	1
% Trucks, Buses	100	0	0	0	0	0	100
Tractor Trailers	0	0	0	0	0	0	0
% Tractor Trailers	0	0	0	0	0	0	0



Transportation Resource Group, Inc.
 204 North George Street Suite 110
 York, PA 17401
 (717) 846-4660

File Name : 3880113
 Site Code : 03880103
 Start Date : 1/16/2010
 Page No : 2

Start Time	Emmitsburg Road (S.R.3001) Southbound			Eisenhower / Allstar Driveway Westbound			Emmitsburg Road (S.R.3001) Northbound			Int. Total
	Thru	Left	App. Total	Right	Left	App. Total	Right	Thru	App. Total	
Peak Hour Analysis From 12:00 to 14:45 - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 13:00										
13:00	35	3	38	2	6	8	2	23	25	71
13:15	27	3	30	2	2	4	2	17	19	53
13:30	33	0	33	4	0	4	3	14	17	54
13:45	22	5	27	2	1	3	1	32	33	63
Total Volume	117	11	128	10	9	19	8	86	94	241
% App. Total	91.4	8.6		52.6	47.4		8.5	91.5		
PHF	.836	.550	.842	.625	.375	.594	.667	.672	.712	.849





Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

Emmitsburg Rd / Rt 15 SB on-off ramp

Municipality: Cumberland Twp.

Day: Thursday

Counter: Joe

File Name : 3880114

Site Code : 00388014

Start Date : 2/18/2010

Page No : 1

Groups Printed- Passenger Vehicles - Trucks, Buses - Tractor Trailers

Start Time	Emmitsburg Road Southbound		Route 15 SB off ramp Westbound			Emmitsburg Road Northbound		Int. Total
	Right	Thru	Right	Thru	Left	Thru	Left	
15:00	15	12	12	0	5	20	0	64
15:15	9	11	13	0	7	22	0	62
15:30	10	16	10	0	16	27	3	82
15:45	19	10	8	0	3	34	0	74
Total	53	49	43	0	31	103	3	282
16:00	18	15	3	0	7	42	2	87
16:15	15	14	9	1	9	26	2	76
16:30	13	11	12	0	3	38	0	77
16:45	15	14	13	0	10	37	5	94
Total	61	54	37	1	29	143	9	334
17:00	17	13	7	0	5	41	3	86
17:15	17	11	15	0	7	61	0	111
17:30	11	12	19	1	6	58	3	110
17:45	9	11	23	0	5	37	1	86
Total	54	47	64	1	23	197	7	393
Grand Total	168	150	144	2	83	443	19	1009
Apprch %	52.8	47.2	62.9	0.9	36.2	95.9	4.1	
Total %	16.7	14.9	14.3	0.2	8.2	43.9	1.9	
Passenger Vehicles	166	140	137	2	80	433	16	974
% Passenger Vehicles	98.8	93.3	95.1	100	96.4	97.7	84.2	96.5
Trucks, Buses	1	10	7	0	1	10	0	29
% Trucks, Buses	0.6	6.7	4.9	0	1.2	2.3	0	2.9
Tractor Trailers	1	0	0	0	2	0	3	6
% Tractor Trailers	0.6	0	0	0	2.4	0	15.8	0.6



Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

Emmitsburg Rd / Rt 15 SB on-off ramp

Municipality: Cumberland Twp.

Day: Thursday

Counter: Joe

File Name : 3880114

Site Code : 00388014

Start Date : 2/18/2010

Page No : 1

Groups Printed- Trucks, Buses - Tractor Trailers

Start Time	Emmitsburg Road Southbound		Route 15 SB off ramp Westbound			Emmitsburg Road Northbound		Int. Total
	Right	Thru	Right	Thru	Left	Thru	Left	
15:00	0	3	0	0	0	1	0	4
15:30	0	2	2	0	1	1	0	6
15:45	1	3	0	0	0	0	0	4
Total	1	8	2	0	1	2	0	14
16:00	0	0	0	0	0	3	0	3
16:15	0	0	0	0	0	2	1	3
16:30	0	0	1	0	0	0	0	1
16:45	0	1	3	0	2	0	1	7
Total	0	1	4	0	2	5	2	14
17:30	1	0	0	0	0	1	0	2
17:45	0	1	1	0	0	2	1	5
Total	1	1	1	0	0	3	1	7
Grand Total	2	10	7	0	3	10	3	35
Apprch %	16.7	83.3	70	0	30	76.9	23.1	
Total %	5.7	28.6	20	0	8.6	28.6	8.6	
Trucks, Buses	1	10	7	0	1	10	0	29
% Trucks, Buses	50	100	100	0	33.3	100	0	82.9
Tractor Trailers	1	0	0	0	2	0	3	6
% Tractor Trailers	50	0	0	0	66.7	0	100	17.1



Transportation Resource Group, Inc.

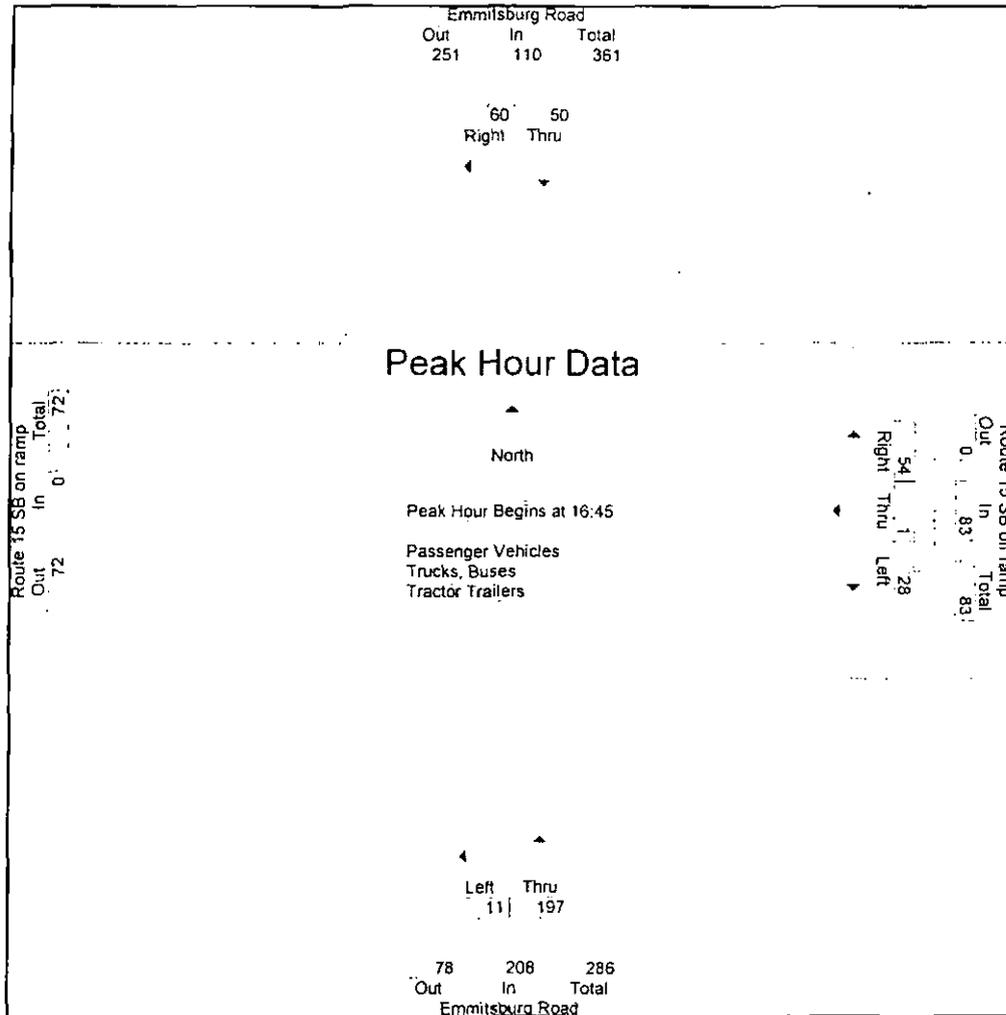
204 North George Street Suite 110

York, PA 17401

(717) 846-4660

File Name : 3880114
 Site Code : 00388014
 Start Date : 2/18/2010
 Page No : 2

Start Time	Emmitsburg Road Southbound			Route 15 SB off ramp Westbound				Emmitsburg Road Northbound			Eastbound	Int. Total
	Right	Thru	App. Total	Right	Thru	Left	App. Total	Thru	Left	App. Total	App. Total	
Peak Hour Analysis From 15:00 to 17:45 - Peak 1 of 1												
Peak Hour for Entire Intersection Begins at 16:45												
16:45	15	14	29	13	0	10	23	37	5	42	0	94
17:00	17	13	30	7	0	5	12	41	3	44	0	86
17:15	17	11	28	15	0	7	22	61	0	61	0	111
17:30	11	12	23	19	1	6	26	58	3	61	0	110
Total Volume	60	50	110	54	1	28	83	197	11	208	0	401
% App. Total	54.5	45.5		65.1	1.2	33.7		94.7	5.3			
PHF	.882	.893	.917	.711	.250	.700	.798	.807	.550	.852	.000	.903





Transportation Resource Group, Inc.
 204 North George Street Suite 110
 York, PA 17401
 (717) 846-4660

Location: Emmitsburg Rd / US 15 SB Ramps
 Municipality: Freedom Township
 Day: Thursday
 Counter: Erica

File Name : 38801T7
 Site Code : 00038801
 Start Date : 5/20/2010
 Page No : 1

Groups Printed- Passenger Vehicles - Trucks, Buses - Tractor Trailers

Start Time	Emmitsburg Road (S.R.3001) Southbound			U.S. 15 SB Off-Ramp Westbound			Emmitsburg Road (S.R.3001) Northbound			U.S. 15 SB On-Ramp Eastbound			Int. Total
	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	
15:00	15	20	0	8	2	6	0	21	3	0	0	0	75
15:15	16	17	0	7	0	5	0	35	0	0	0	0	80
15:30	20	19	0	5	0	7	0	48	3	0	0	0	102
15:45	16	20	0	11	0	11	0	32	2	0	0	0	92
Total	67	76	0	31	2	29	0	136	8	0	0	0	349
16:00	17	16	0	14	0	6	0	40	2	0	0	0	95
16:15	18	14	0	15	0	7	0	36	3	0	0	0	93
16:30	18	17	0	13	0	8	0	47	0	0	0	0	103
16:45	16	14	0	18	0	12	0	39	4	0	0	0	103
Total	69	61	0	60	0	33	0	162	9	0	0	0	394
17:00	20	17	0	25	0	6	0	44	2	0	0	0	114
17:15	17	18	0	20	0	7	0	55	5	0	0	0	122
17:30	11	13	0	19	0	12	0	62	2	0	0	0	119
17:45	13	17	0	18	0	6	0	43	2	0	0	0	99
Total	61	65	0	82	0	31	0	204	11	0	0	0	454
Grand Total	197	202	0	173	2	93	0	502	28	0	0	0	1197
Apprch %	49.4	50.6	0	64.6	0.7	34.7	0	94.7	5.3	0	0	0	
Total %	16.5	16.9	0	14.5	0.2	7.8	0	41.9	2.3	0	0	0	
Passenger Vehicles	192	196	0	167	2	87	0	483	25	0	0	0	1152
% Passenger Vehicles	97.5	97	0	96.5	100	93.5	0	96.2	89.3	0	0	0	96.2
Trucks, Buses	5	4	0	6	0	6	0	15	2	0	0	0	38
% Trucks, Buses	2.5	2	0	3.5	0	6.5	0	3	7.1	0	0	0	3.2
Tractor Trailers	0	2	0	0	0	0	0	4	1	0	0	0	7
% Tractor Trailers	0	1	0	0	0	0	0	0.8	3.6	0	0	0	0.6



Transportation Resource Group, Inc.

204 North George Street Suite 110

Location: Emmitsburg Rd / US 15 SB Ramps

York, PA 17401

Municipality: Freedom Township

(717) 846-4660

Day: Thursday

File Name : 38801T7

Site Code : 00038801

Counter: Erica

Start Date : 5/20/2010

Page No : 1

Groups Printed- Trucks, Buses - Tractor Trailers

Start Time	Emmitsburg Road (S.R.3001) Southbound			U.S. 15 SB Off-Ramp Westbound			Emmitsburg Road (S.R.3001) Northbound			U.S. 15 SB On-Ramp Eastbound			Int. Total
	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	
15:00	0	1	0	0	0	0	0	0	0	0	0	0	1
15:15	2	0	0	0	0	0	0	3	0	0	0	0	5
15:30	0	0	0	0	0	0	0	5	0	0	0	0	5
15:45	1	3	0	0	0	0	0	1	0	0	0	0	5
Total	3	4	0	0	0	0	0	9	0	0	0	0	16
16:00	1	1	0	1	0	0	0	2	0	0	0	0	5
16:15	0	0	0	0	0	0	0	1	0	0	0	0	1
16:30	0	1	0	0	0	1	0	1	0	0	0	0	3
16:45	1	0	0	0	0	3	0	1	1	0	0	0	6
Total	2	2	0	1	0	4	0	5	1	0	0	0	15
17:00	0	0	0	0	0	1	0	1	0	0	0	0	2
17:15	0	0	0	3	0	1	0	1	1	0	0	0	6
17:30	0	0	0	0	0	0	0	3	0	0	0	0	3
17:45	0	0	0	2	0	0	0	0	1	0	0	0	3
Total	0	0	0	5	0	2	0	5	2	0	0	0	14
Grand Total	5	6	0	6	0	6	0	19	3	0	0	0	45
Approch %	45.5	54.5	0	50	0	50	0	86.4	13.6	0	0	0	
Total %	11.1	13.3	0	13.3	0	13.3	0	42.2	6.7	0	0	0	
Trucks, Buses	5	4	0	6	0	6	0	15	2	0	0	0	38
% Trucks, Buses	100	66.7	0	100	0	100	0	78.9	66.7	0	0	0	84.4
Tractor Trailers	0	2	0	0	0	0	0	4	1	0	0	0	7
% Tractor Trailers	0	33.3	0	0	0	0	0	21.1	33.3	0	0	0	15.6



Transportation Resource Group, Inc.

204 North George Street Suite 110

Location: Emmitsburg Rd / US 15 SB Ramps

York, PA 17401

File Name : 38801T7

Municipality: Freedom Township

(717) 846-4660

Site Code : 00038801

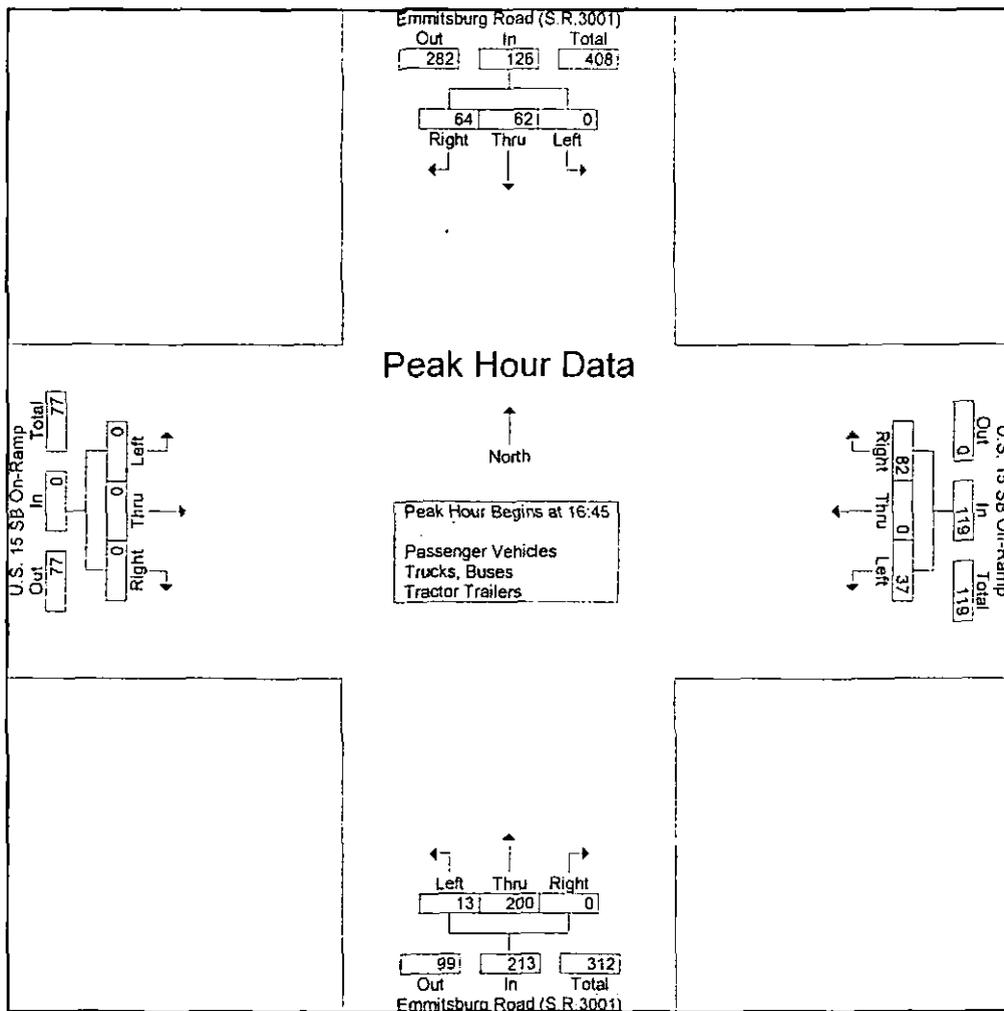
Day: Thursday

Start Date : 5/20/2010

Counter: Erica

Page No : 2

Start Time	Emmitsburg Road (S.R.3001) Southbound				U.S. 15 SB Off-Ramp Westbound				Emmitsburg Road (S.R.3001) Northbound				U.S. 15 SB On-Ramp Eastbound				Int. Total
	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	
Peak Hour Analysis From 15:00 to 17:30 - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 16:45																	
16:45	16	14	0	30	18	0	12		0	44	2	46	0	0	0	0	114
17:00	20	17	0	37	25	0	6	31	0	55	5	60	0	0	0	0	122
17:15	17	18	0	35	20	0	7	27	0	62	2	64	0	0	0	0	119
17:30	11	13	0	24	19	0	12	31	0	62	2	64	0	0	0	0	119
Total Volume	64	62	0	126	82	0	37	119	0	200	13	213	0	0	0	0	458
% App. Total	50.8	49.2	0		68.9	0	31.1		0	93.9	6.1		0	0	0		
PHF	.800	.861	.000	.851	.820	.000	.771	.960	.000	.806	.650	.832	.000	.000	.000	.000	.939



PEDESTRIAN COUNT RECAP SHEET

Location: Emmitsburg Rd (S.R.3001) / US 15 SB Ramps

Day/Date: Thursday / May 20, 2010

County: Adams

Observer: Erica

Municipality: Freedom Township

File Name: 38801T7ped

TIME PERIOD	Emmitsburg Road (S.R.3001)			US 15 SB Ramps			Total All Directions
	NORTH CROSSWALK	SOUTH CROSSWALK	Total NB / SB	EAST CROSSWALK	WEST CROSSWALK	Total EB / WB	
3:00PM - 3:15PM	1	2	3	0	0	0	3
3:15PM - 3:30PM	0	0	0	0	0	0	0
3:30PM - 3:45PM	0	0	0	0	0	0	0
3:45PM - 4:00PM	0	0	0	0	0	0	0
4:00PM - 4:15PM	0	0	0	0	0	0	0
4:15PM - 4:30PM	0	0	0	0	0	0	0
4:30PM - 4:45PM	0	0	0	0	0	0	0
4:45PM - 5:00PM	0	0	0	0	0	0	0
5:00PM - 5:15PM	0	0	0	0	0	0	0
5:15PM - 5:30PM	0	0	0	0	0	0	0
5:30PM - 5:45PM	0	0	0	0	0	0	0
5:45PM - 6:00PM	0	0	0	0	0	0	0
TOTAL PEDS	1	2	3	0	0	0	3

	PM PEAK HOUR (3:00 PM to 6:00 PM)
Peak Pedestrian Hour	3:00 PM to 4:00 PM
Peak North Crosswalk Total	1
Peak South Crosswalk Total	2
Peak East Crosswalk Total	0
Peak West Crosswalk Total	0
Peak Hour Total	3



Transportation Resource Group, Inc.
 204 North George Street Suite 110
 York, PA 17401
 (717) 846-4660

Emmitsburg Rd / Rt 15 SB on-off ramp
 Municipality: Cumberland Twp.
 Day: Friday
 Counter: Joe

File Name : 38801144
 Site Code : 00388044
 Start Date : 2/19/2010
 Page No : 1

Groups Printed- Passenger Vehicles - Trucks, Buses - Tractor Trailers

Start Time	Emmitsburg Road Southbound		Route 15 off ramp Westbound			Emmitsburg Road Northbound		Int.	Total
	Right	Thru	Right	Thru	Left	Thru	Left		
16:00	17	21	14	0	13	46	1		112
16:15	16	20	14	0	10	37	3		100
16:30	10	12	18	1	10	38	3		92
16:45	15	14	18	0	10	37	5		99
Total	58	67	64	1	43	158	12		403
17:00	11	14	15	0	10	39	2		91
17:15	22	19	11	0	6	34	1		93
17:30	11	13	8	0	4	44	1		81
17:45	15	15	5	0	4	20	2		61
Total	59	61	39	0	24	137	6		326
18:00	17	12	9	0	11	31	0		80
18:15	12	12	12	0	6	22	0		64
18:30	13	9	12	0	5	27	3		69
18:45	11	11	13	0	4	21	2		62
Total	53	44	46	0	26	101	5		275
Grand Total	170	172	149	1	93	396	23		1004
Approch %	49.7	50.3	61.3	0.4	38.3	94.5	5.5		
Total %	16.9	17.1	14.8	0.1	9.3	39.4	2.3		
Passenger Vehicles	167	166	148	1	88	390	20		980
% Passenger Vehicles	98.2	96.5	99.3	100	94.6	98.5	87		97.6
Trucks, Buses	2	6	1	0	3	5	1		18
% Trucks, Buses	1.2	3.5	0.7	0	3.2	1.3	4.3		1.8
Tractor Trailers	1	0	0	0	2	1	2		6
% Tractor Trailers	0.6	0	0	0	2.2	0.3	8.7		0.6



Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

Emmitsburg Rd / Rt 15 SB on-off ramp

Municipality: Cumberland Twp.

Day: Friday

Counter: Joe

File Name : 38801144

Site Code : 00388044

Start Date : 2/19/2010

Page No : 1

Groups Printed: Trucks, Buses - Tractor Trailers

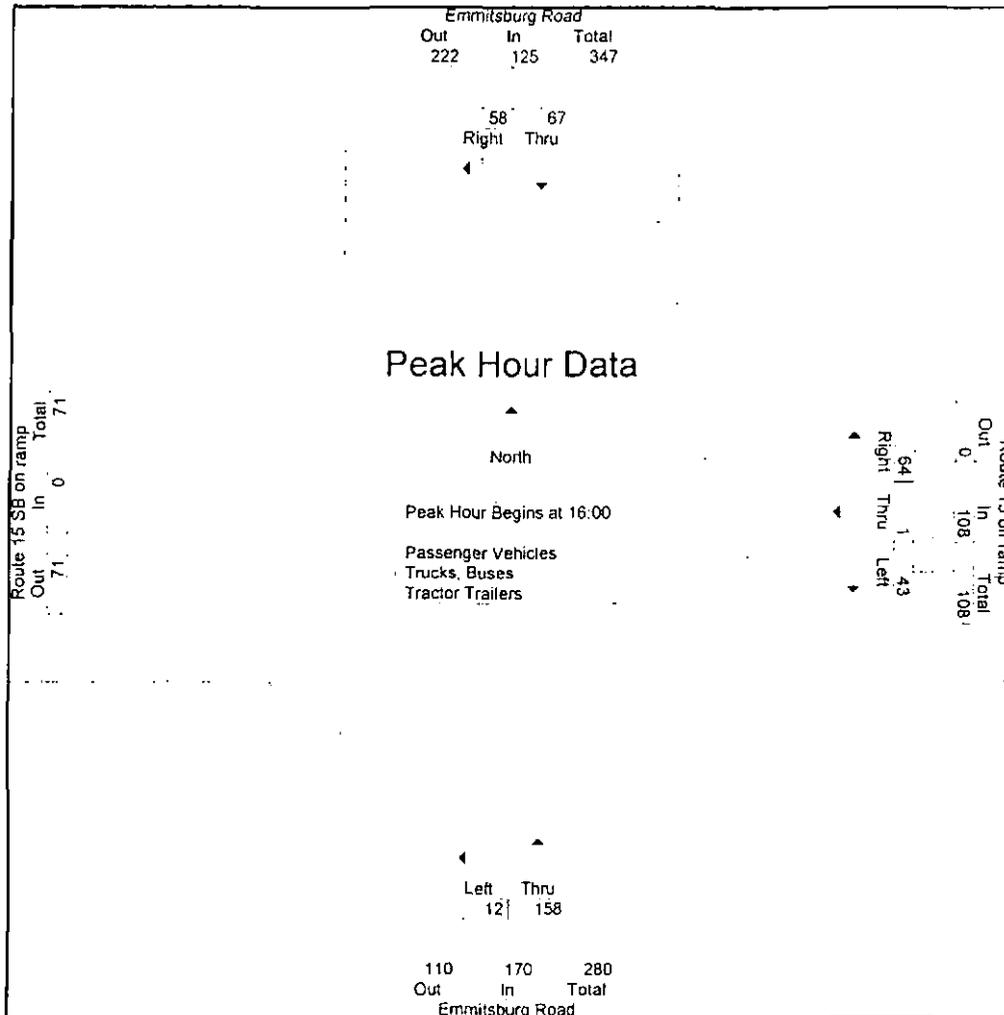
Start Time	Emmitsburg Road Southbound		Route 15 off ramp Westbound		Left	Emmitsburg Road Northbound		Int. Total
	Right	Thru	Right	Thru		Thru	Left	
16:00	0	3	0	0	0	2	0	5
16:15	1	0	0	0	1	0	1	3
16:30	0	1	0	0	0	2	1	4
16:45	0	0	0	0	1	1	0	2
Total	1	4	0	0	2	5	2	14
17:00	0	0	1	0	0	0	0	1
17:15	0	0	0	0	1	0	0	1
17:30	0	1	0	0	1	0	0	2
17:45	0	1	0	0	0	0	1	2
Total	0	2	1	0	2	0	1	6
18:00	1	0	0	0	0	0	0	1
18:15	1	0	0	0	1	0	0	2
18:30	0	0	0	0	0	1	0	1
Total	2	0	0	0	1	1	0	4
Grand Total	3	6	1	0	5	6	3	24
Apprch %	33.3	66.7	16.7	0	83.3	66.7	33.3	
Total %	12.5	25	4.2	0	20.8	25	12.5	
Trucks, Buses	2	6	1	0	3	5	1	18
% Trucks, Buses	66.7	100	100	0	60	83.3	33.3	75
Tractor Trailers	1	0	0	0	2	1	2	6
% Tractor Trailers	33.3	0	0	0	40	16.7	66.7	25



Transportation Resource Group, Inc.
 204 North George Street Suite 110
 York, PA 17401
 (717) 846-4660

File Name : 38801I44
 Site Code : 00388044
 Start Date : 2/19/2010
 Page No : 2

Start Time	Emmitsburg Road Southbound			Route 15 off ramp Westbound				Emmitsburg Road Northbound			Eastbound	Int. Total
	Right	Thru	App. Total	Right	Thru	Left	App. Total	Thru	Left	App. Total	App. Total	
Peak Hour Analysis From 16:00 to 19:00 - Peak 1 of 1												
Peak Hour for Entire Intersection Begins at 16:00												
16:00	17	21	38	14	0	13	27	46	1	47	0	112
16:15	16	20	36	14	0	10	24	37	3	40	0	100
16:30	10	12	22	18	1	10	29	38	3	41	0	92
16:45	15	14	29	18	0	10	28	37	5	42	0	99
Total Volume	58	67	125	64	1	43	108	158	12	170	0	403
% App. Total	46.4	53.6		59.3	0.9	39.8		92.9	7.1			
PHF	.853	.798	.822	.889	.250	.827	.931	.859	.600	.904	.000	.900





Transportation Resource Group, Inc.

204 North George Street Suite 110

Location: Emmitsburg Rd / US 15 SB Ramps

York, PA 17401

Municipality: Freedom Township

(717) 846-4660

Day: Friday

File Name : 38801F7

Site Code : 00038801

Counter: Erica

Start Date : 5/21/2010

Page No : 1

Groups Printed- Trucks, Buses - Tractor Trailers

Start Time	Emmitsburg Road (S.R.3001) Southbound				U.S. 15 SB Off-Ramp Westbound				Emmitsburg Road (S.R.3001) Northbound				U.S. 15 SB On-Ramp Eastbound				Int. Total
	Right	Thru	Left	Other	Right	Thru	Left	Other	Right	Thru	Left	Other	Right	Thru	Left	Other	
16:00	4	3	0	0	0	0	4	0	0	3	1	0	0	0	0	0	15
16:15	0	3	0	0	0	0	1	0	0	0	1	0	0	0	0	0	5
16:30	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3
16:45	2	2	0	0	0	0	0	0	0	3	0	0	0	0	0	0	7
Total	6	8	0	0	0	0	5	0	0	9	2	0	0	0	0	0	30
17:00	2	4	0	0	3	0	1	0	0	2	1	0	0	0	0	0	13
17:15	1	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	3
17:30	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	4
17:45	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
Total	3	6	0	0	4	0	1	0	0	7	1	0	0	0	0	0	22
18:00	0	1	0	0	2	0	0	0	0	5	0	0	0	0	0	0	8
18:15	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	3
18:30	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	3
18:45	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	3
Total	2	4	0	0	2	0	0	0	0	9	0	0	0	0	0	0	17
Grand Total	11	18	0	0	6	0	6	0	0	25	3	0	0	0	0	0	69
<i>Apprch %</i>	37.9	62.1	0	0	50	0	50	0	0	89.3	10.7	0	0	0	0	0	
<i>Total %</i>	15.9	26.1	0	0	8.7	0	8.7	0	0	36.2	4.3	0	0	0	0	0	
Trucks, Buses	11	17	0	0	6	0	6	0	0	23	3	0	0	0	0	0	66
% Trucks, Buses	100	94.4	0	0	100	0	100	0	0	92	100	0	0	0	0	0	95.7
Tractor Trailers	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	3
% Tractor Trailers	0	5.6	0	0	0	0	0	0	0	8	0	0	0	0	0	0	4.3



Transportation Resource Group, Inc.

204 North George Street Suite 110

Location: Emmitsburg Rd / US 15 SB Ramps

York, PA 17401

Municipality: Freedom Township

(717) 846-4660

Day: Friday

File Name : 38801F7

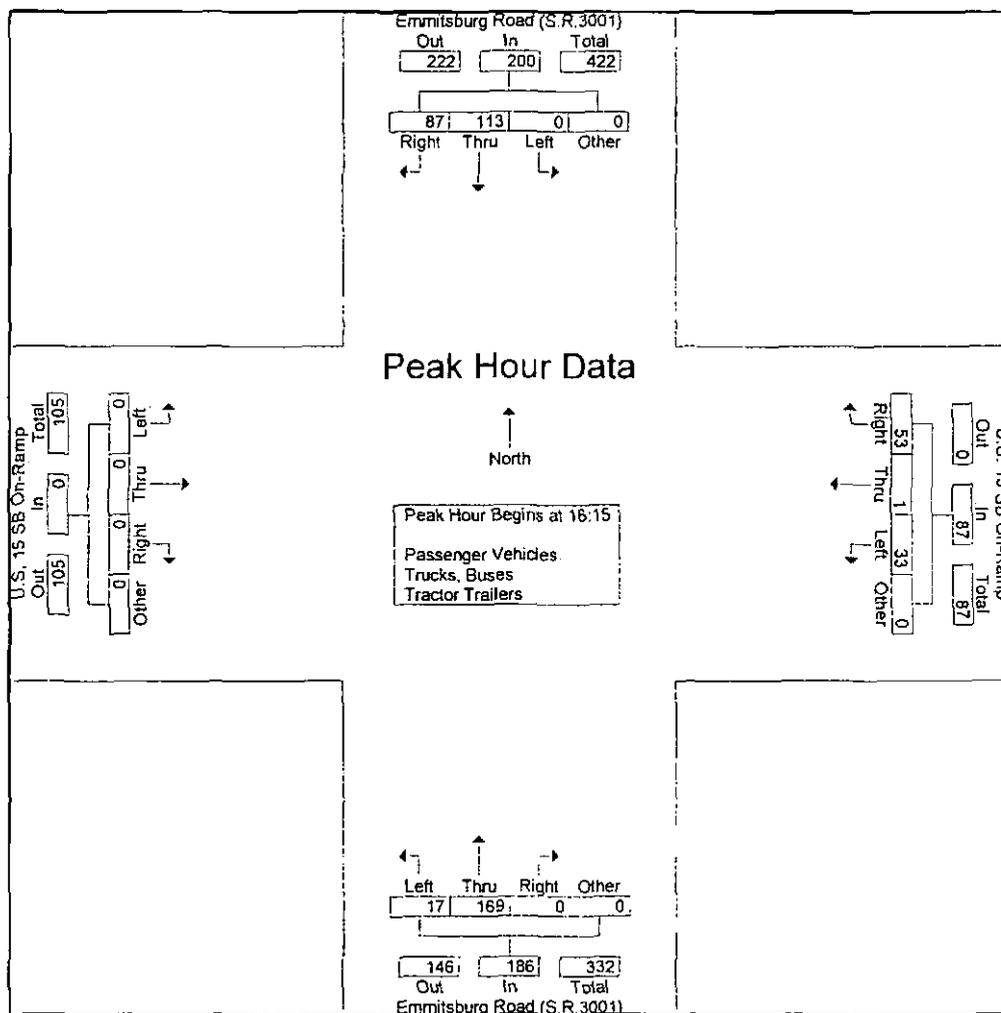
Counter: Erica

Site Code : 00038801

Start Date : 5/21/2010

Page No : 2

Start Time	Emmitsburg Road (S.R.3001) Southbound					U.S. 15 SB Off-Ramp Westbound					Emmitsburg Road (S.R.3001) Northbound					U.S. 15 SB On-Ramp Eastbound					Int. Total
	Right	Thru	Left	Other	App. Total	Right	Thru	Left	Other	App. Total	Right	Thru	Left	Other	App. Total	Right	Thru	Left	Other	App. Total	
Peak Hour Analysis From 16:00 to 18:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 16:15																					
16:15	21	27	0	0	48	14	0	7	0	21	0	39	4	0	43	0	0	0	0	0	112
16:30	17	29	0	0	46	10	0	9	0	19	0	47	4	0	51	0	0	0	0	0	116
16:45	22	17	0	0	39	12	0	8	0	20	0	46	4	0	50	0	0	0	0	0	109
17:00	27	40	0	0	67	17	1	9	0	27	0	37	5	0	42	0	0	0	0	0	136
Total Volume	87	113	0	0	200	53	1	33	0	87	0	169	17	0	186	0	0	0	0	0	473
% App. Total	43.5	56.5	0	0		60.9	1.1	37.9	0		0	90.9	9.1	0		0	0	0	0		
PHF	.806	.706	.000	.000	.746	.779	.250	.917	.000	.806	.000	.899	.850	.000	.912	.000	.000	.000	.000	.000	.869



PEDESTRIAN COUNT RECAP SHEET

Location: Emmitsburg Rd (S.R.3001) / US 15 SB Ramps

Day/Date: Friday / May 21, 2010

County: Adams

Observer: Erica

Municipality: Freedom Township

File Name: 38801F7ped

TIME PERIOD	Emmitsburg Road (S.R.3001)			US 15 SB Ramps			Total All Directions
	NORTH CROSSWALK	SOUTH CROSSWALK	Total NB / SB	EAST CROSSWALK	WEST CROSSWALK	Total EB / WB	
4:00PM - 4:15PM	0	0	0	0	0	0	0
4:15PM - 4:30PM	0	0	0	0	0	0	0
4:30PM - 4:45PM	0	0	0	0	0	0	0
4:45PM - 5:00PM	0	0	0	0	0	0	0
5:00PM - 5:15PM	0	0	0	0	0	0	0
5:15PM - 5:30PM	1	0	1	0	0	0	1
5:30PM - 5:45PM	0	0	0	0	0	0	0
5:45 PM - 6:00 PM	0	0	0	0	0	0	0
6:00 PM - 6:15 PM	0	0	0	0	0	0	0
6:15 PM - 6:30 PM	0	0	0	0	0	0	0
6:30 PM - 6:45 PM	0	0	0	0	0	0	0
6:45 PM - 7:00 PM	0	0	0	0	0	0	0
TOTAL PEDS	1	0	1	0	0	0	1

	PM PEAK HOUR (4:00 PM to 7:00 PM)
Peak Pedestrian Hour	5:00 PM to 6:00 PM
Peak North Crosswalk Total	1
Peak South Crosswalk Total	0
Peak East Crosswalk Total	0
Peak West Crosswalk Total	0
Peak Hour Total	1



Transportation Resource Group, Inc.
 204 North George Street Suite 110
 York, PA 17401
 (717) 846-4660

Emmitsburg Rd / Rt 15 SB on-off ramp
 Municipality: Cumberland Twp.
 Day: Saturday
 Counter: Brian

File Name : 38801S4
 Site Code : 00388014
 Start Date : 2/20/2010
 Page No : 1

Groups Printed- Passenger Vehicles - Trucks, Buses - Tractor Trailers

Start Time	Emmitsburg Road Southbound		Route 15 SB off ramp Westbound		Left	Emmitsburg Road Northbound		Int. Total
	Right	Thru	Right	Thru		Thru	Left	
12:00	11	21	12	0	9	14	1	68
12:15	10	9	14	0	7	31	3	74
12:30	22	12	16	0	5	20	4	79
12:45	19	18	16	0	3	27	1	84
Total	62	60	58	0	24	92	9	305
13:00	12	23	7	0	6	18	1	67
13:15	20	13	13	0	4	22	2	74
13:30	26	15	17	0	5	20	1	84
13:45	18	14	11	0	8	21	1	73
Total	76	65	48	0	23	81	5	298
14:00	12	19	8	0	4	23	2	68
14:15	18	17	13	0	5	35	1	89
14:30	17	16	25	0	4	16	0	78
14:45	21	21	20	0	4	19	1	86
Total	68	73	66	0	17	93	4	321
Grand Total	206	198	172	0	64	266	18	924
Apprch %	51	49	72.9	0	27.1	93.7	6.3	
Total %	22.3	21.4	18.6	0	6.9	28.8	1.9	
Passenger Vehicles	205	198	165	0	64	262	17	911
% Passenger Vehicles	99.5	100	95.9	0	100	98.5	94.4	98.6
Trucks, Buses	1	0	6	0	0	4	1	12
% Trucks, Buses	0.5	0	3.5	0	0	1.5	5.6	1.3
Tractor Trailers	0	0	1	0	0	0	0	1
% Tractor Trailers	0	0	0.6	0	0	0	0	0.1



Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

Emmitsburg Rd / Rt 15 SB on-off ramp

Municipality: Cumberland Twp.

Day: Saturday

Counter: Brian

File Name : 38801S4

Site Code : 00388014

Start Date : 2/20/2010

Page No : 1

Groups Printed- Trucks, Buses - Tractor Trailers

Start Time	Emmitsburg Road Southbound		Route 15 SB off ramp Westbound			Emmitsburg Road Northbound		Int. Total
	Right	Thru	Right	Thru	Left	Thru	Left	
13:15	1	0	2	0	0	0	0	3
13:30	0	0	2	0	0	1	0	3
Total	1	0	4	0	0	1	0	6
14:00	0	0	0	0	0	1	0	1
14:15	0	0	0	0	0	2	1	3
14:30	0	0	1	0	0	0	0	1
14:45	0	0	2	0	0	0	0	2
Total	0	0	3	0	0	3	1	7
Grand Total	1	0	7	0	0	4	1	13
Approch %	100	0	100	0	0	80	20	
Total %	7.7	0	53.8	0	0	30.8	7.7	
Trucks, Buses	1	0	6	0	0	4	1	12
% Trucks, Buses	100	0	85.7	0	0	100	100	92.3
Tractor Trailers	0	0	1	0	0	0	0	1
% Tractor Trailers	0	0	14.3	0	0	0	0	7.7



Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

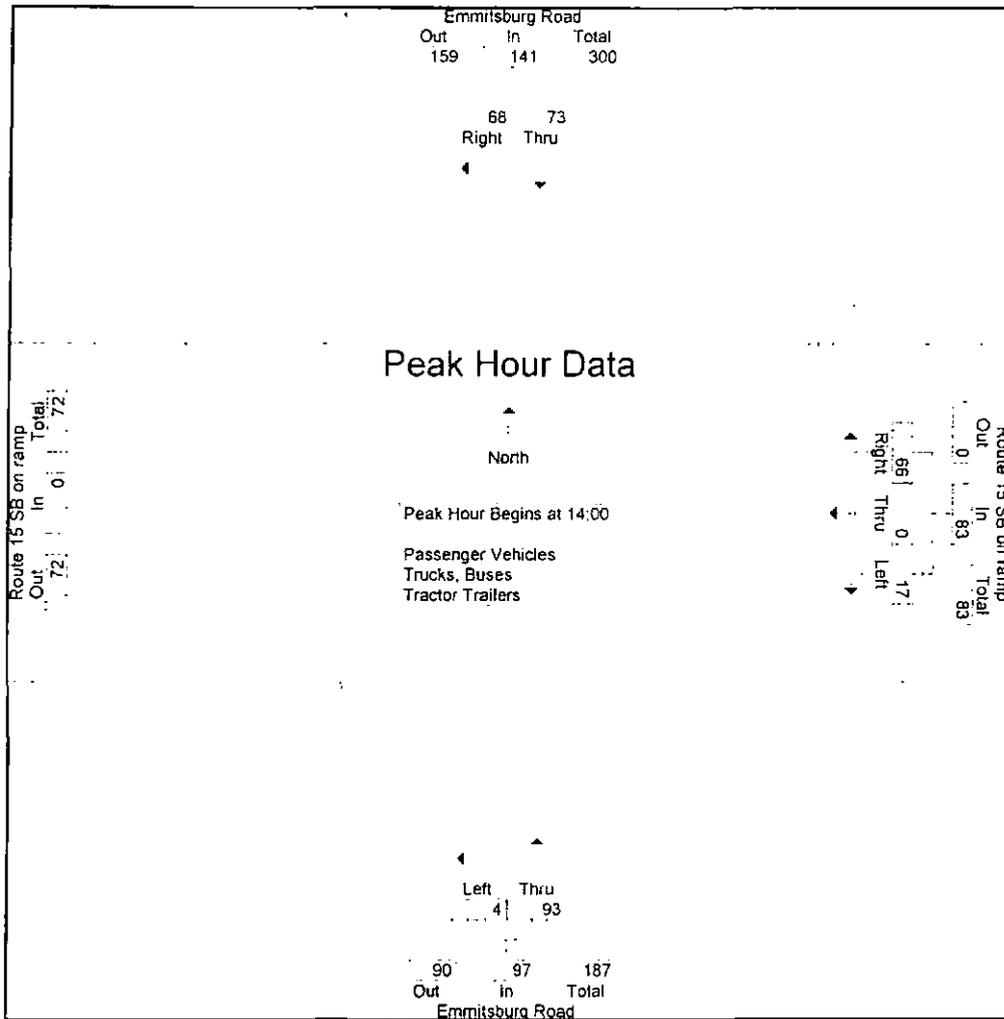
File Name : 38801S4

Site Code : 00388014

Start Date : 2/20/2010

Page No : 2

Start Time	Emmitsburg Road Southbound			Route 15 SB off ramp Westbound				Emmitsburg Road Northbound			Eastbound	Int. Total
	Right	Thru	App. Total	Right	Thru	Left	App. Total	Thru	Left	App. Total	App. Total	
Peak Hour Analysis From 12:00 to 14:45 - Peak 1 of 1												
Peak Hour for Entire Intersection Begins at 14:00												
14:00	12	19	31	8	0	4	12	23	2	25	0	68
14:15	18	17	35	13	0	5	18	35	1	36	0	89
14:30	17	16	33	25	0	4	29	16	0	16	0	78
14:45	21	21	42	20	0	4	24	19	1	20	0	86
Total Volume	68	73	141	66	0	17	83	93	4	97	0	321
% App. Total	48.2	51.8		79.5	0	20.5		95.9	4.1			
PHF	810	869	839	660	000	850	716	664	500	674	000	902





Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 840-4660

Emmitsburg Rd / Rt 15 NB on-off ramp

Municipality: Cumberland Twp.

Day: Thursday

Counter: Steve

File Name : 3880115

Site Code : 03880105

Start Date : 2/18/2010

Page No : 1

Groups Printed- Passenger Vehicles - Trucks, Buses - Tractor Trailers

Start Time	Emmitsburg Road Southbound		Emmitsburg Road Northbound		Route 15 NB on ramp Eastbound			Int. Total
	Thru	Left	Right	Thru	Right	Thru	Left	
15:00	10	6	1	6	1	0	18	42
15:15	11	8	4	3	0	0	17	43
15:30	25	7	4	9	1	0	21	67
15:45	5	7	3	5	2	0	30	52
Total	51	28	12	23	4	0	86	204
16:00	12	10	4	14	1	0	28	69
16:15	17	5	5	8	2	1	20	58
16:30	6	8	8	8	0	0	36	66
16:45	14	9	2	12	2	0	33	72
Total	49	32	19	42	5	1	117	265
17:00	11	9	10	14	1	0	31	76
17:15	12	5	10	17	1	0	48	93
17:30	12	7	3	13	0	0	52	87
17:45	8	8	2	10	1	0	29	58
Total	43	29	25	54	3	0	160	314
Grand Total	143	89	56	119	12	1	363	783
Apprch %	61.6	38.4	32	68	3.2	0.3	96.5	
Total %	18.3	11.4	7.2	15.2	1.5	0.1	46.4	
Passenger Vehicles	137	85	55	111	12	0	362	762
% Passenger Vehicles	95.8	95.5	98.2	93.3	100	0	99.7	97.3
Trucks, Buses	4	4	0	5	0	0	0	13
% Trucks, Buses	2.8	4.5	0	4.2	0	0	0	1.7
Tractor Trailers	2	0	1	3	0	1	1	8
% Tractor Trailers	1.4	0	1.8	2.5	0	100	0.3	1



Transportation Resource Group, Inc.

204 North George Street Suite 110

Location: Emmitsburg Rd / US 15 SB Ramps York, PA 17401
 Municipality: Freedom Township (717) 846-4660
 Day: Saturday
 Counter: Erica

File Name : 38801S7
 Site Code : 00038801
 Start Date : 5/22/2010
 Page No : 1

Groups Printed- Trucks, Buses - Tractor Trailers

Start Time	Emmitsburg Road (S.R.3001) Southbound				U.S. 15 SB Off-Ramp Westbound				Emmitsburg Road (S.R.3001) Northbound				U.S. 15 SB On-Ramp Eastbound				Int. Total
	Right	Thru	Left	Other	Right	Thru	Left	Other	Right	Thru	Left	Other	Right	Thru	Left	Other	
12:00	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2
12:45	0	1	0	0	0	0	0	0	0	3	0	0	0	0	0	0	4
Total	0	2	0	0	0	0	0	0	0	4	0	0	0	0	0	0	6
13:00	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
13:15	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
13:30	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
13:45	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	2	0	0	0	0	0	0	0	3	0	0	0	0	0	0	5
14:00	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
14:15	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
14:30	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
14:45	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	2	0	0	0	0	0	0	0	3	0	0	0	0	0	0	5
Grand Total	0	6	0	0	0	0	0	0	0	10	0	0	0	0	0	0	16
Apprch %	0	100	0	0	0	0	0	0	0	100	0	0	0	0	0	0	
Total %	0	37.5	0	0	0	0	0	0	0	62.5	0	0	0	0	0	0	
Trucks, Buses	0	6	0	0	0	0	0	0	0	8	0	0	0	0	0	0	14
% Trucks, Buses	0	100	0	0	0	0	0	0	0	80	0	0	0	0	0	0	87.5
Tractor Trailers	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
% Tractor Trailers	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	12.5



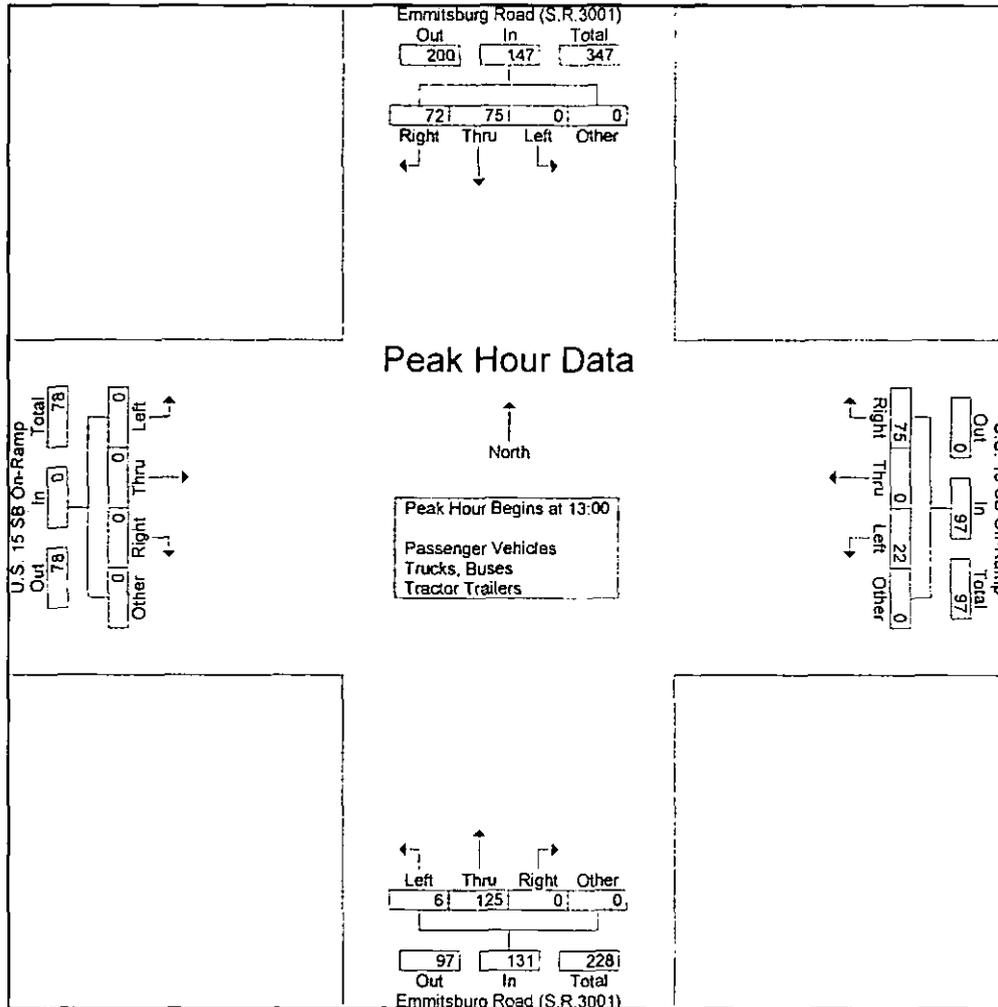
Transportation Resource Group, Inc.
 204 North George Street Suite 110

Location: Emmitsburg Rd / US 15 SB Ramps
 Municipality: Freedom Township
 Day: Saturday
 Counter: Erica

York, PA 17401
 (717) 846-4660

File Name : 38801S7
 Site Code : 00038801
 Start Date : 5/22/2010
 Page No : 2

Start Time	Emmitsburg Road (S.R.3001) Southbound					U.S. 15 SB Off-Ramp Westbound					Emmitsburg Road (S.R.3001) Northbound					U.S. 15 SB On-Ramp Eastbound					Int. Total
	Right	Thru	Left	Other	App. Total	Right	Thru	Left	Other	App. Total	Right	Thru	Left	Other	App. Total	Right	Thru	Left	Other	App. Total	
Peak Hour Analysis From 12:00 to 14:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 13:00																					
13:00	15	12	0	0	27	18	0	4	0	22	0	35	0	0	35	0	0	0	0	0	84
13:15	18	15	0	0	33	16	0	6	0	22	0	37	2	0	39	0	0	0	0	0	94
13:30	19	24	0	0	43	19	0	4	0	23	0	27	3	0	30	0	0	0	0	0	96
13:45	20	24	0	0	44	22	0	8	0	30	0	26	1	0	27	0	0	0	0	0	101
Total Volume	72	75	0	0	147	75	0	22	0	97	0	125	6	0	131	0	0	0	0	0	375
% App. Total	49	51	0	0		77.3	0	22.7	0		0	95.4	4.6	0		0	0	0	0		
PHF	900	781	000	000	835	852	000	688	000	808	000	845	500	000	840	000	000	000	000	000	928



PEDESTRIAN COUNT RECAP SHEET

Location: Emmitsburg Rd (S.R.3001) / US 15 SB Ramps

Day/Date: Saturday / May 22, 2010

County: Adams

Observer: Erica

Municipality: Freedom Township

File Name: 38801S7ped

TIME PERIOD	Emmitsburg Road (S.R.3001)			US 15 SB Ramps			Total All Directions
	NORTH CROSSWALK	SOUTH CROSSWALK	Total NB / SB	EAST CROSSWALK	WEST CROSSWALK	Total EB / WB	
12:00 PM - 12:15 PM	0	0	0	0	0	0	0
12:15 PM - 12:30 PM	0	0	0	0	0	0	0
12:30 PM - 12:45 PM	0	0	0	0	0	0	0
12:45 PM - 1:00 PM	1	0	1	0	0	0	1
1:00 PM - 1:15 PM	0	0	0	0	0	0	0
1:15 PM - 1:30 PM	0	0	0	0	0	0	0
1:30 PM - 1:45 PM	0	0	0	0	0	0	0
1:45 PM - 2:00 PM	0	0	0	0	0	0	0
2:00 PM - 2:15 PM	0	0	0	0	0	0	0
2:15 PM - 2:30 PM	0	1	1	0	0	0	1
2:30 PM - 2:45 PM	0	0	0	0	0	0	0
2:45 PM - 3:00 PM	0	0	0	0	0	0	0
TOTAL PEDS	1	1	2	0	0	0	2

	PM PEAK HOUR (12:00 PM to 3:00 PM)
Peak Pedestrian Hour	12:00 to 1:00 PM
Peak North Crosswalk Total	1
Peak South Crosswalk Total	0
Peak East Crosswalk Total	0
Peak West Crosswalk Total	0
Peak Hour Total	1



Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 840-4660

Emmitsburg Rd / Rt 15 NB on-off ramp
 Municipality: Cumberland Twp.
 Day: Thursday
 Counter: Steve

File Name : 3880115
 Site Code : 03880105
 Start Date : 2/18/2010
 Page No : 1

Groups Printed- Trucks, Buses - Tractor Trailers

Start Time	Emmitsburg Road Southbound		Emmitsburg Road Northbound		Route 15 NB on ramp Eastbound		Left	Int. Total
	Thru	Left	Right	Thru	Right	Thru		
15:00	3	0	0	2	0	0	0	5
15:30	1	1	0	1	0	0	0	3
15:45	1	1	0	0	0	0	0	2
Total	5	2	0	3	0	0	0	10
16:00	0	1	0	2	0	0	0	3
16:15	0	0	0	1	0	1	1	3
16:45	1	0	0	1	0	0	0	2
Total	1	1	0	4	0	1	1	8
17:30	0	0	1	0	0	0	0	1
17:45	0	1	0	1	0	0	0	2
Total	0	1	1	1	0	0	0	3
Grand Total	6	4	1	8	0	1	1	21
Apprch %	60	40	11.1	88.9	0	50	50	
Total %	28.6	19	4.8	38.1	0	4.8	4.8	
Trucks, Buses	4	4	0	5	0	0	0	13
% Trucks, Buses	66.7	100	0	62.5	0	0	0	61.9
Tractor Trailers	2	0	1	3	0	1	1	8
% Tractor Trailers	33.3	0	100	37.5	0	100	100	38.1



Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

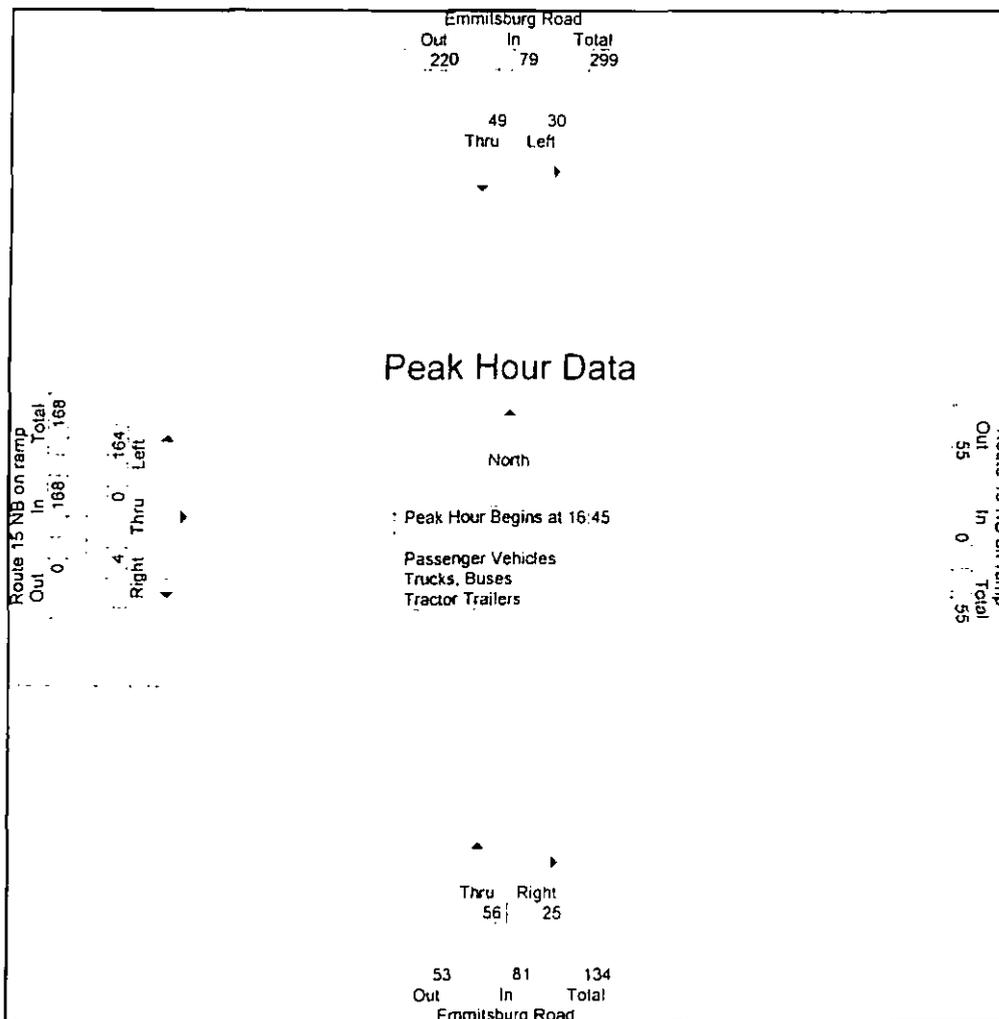
File Name : 3880115

Site Code : 03880105

Start Date : 2/18/2010

Page No : 2

Start Time	Emmitsburg Road Southbound			Westbound d	Emmitsburg Road Northbound			Route 15 NB on ramp Eastbound			Int. Total	
	Thru	Left	App. Total		App. Total	Right	Thru	App. Total	Right	Thru		Left
Peak Hour Analysis From 15:00 to 17:45 - Peak 1 of 1												
Peak Hour for Entire Intersection Begins at 16:45												
16:45	14	9	23	0	2	12	14	2	0	33	35	72
17:00	11	9	20	0	10	14	24	1	0	31	32	76
17:15	12	5	17	0	10	17	27	1	0	48	49	93
17:30	12	7	19	0	3	13	16	0	0	52	52	87
Total Volume	49	30	79	0	25	56	81	4	0	164	168	328
% App. Total	62	38			30.9	69.1		2.4	0	97.6		
PHF	.875	.833	.859	.000	.625	.824	.750	.500	.000	.788	.808	.882





Transportation Resource Group, Inc.
 204 North George Street Suite 110
 York, PA 17401
 (717) 846-4660

Location: Emmitsburg Rd / US 15 NB Ramps
 Municipality: Freedom Township
 Day: Thursday
 Counter: Jane

File Name : 38801T6
 Site Code : 00038801
 Start Date : 5/20/2010
 Page No : 1

Groups Printed- Passenger Vehicles - Trucks, Buses - Tractor Trailers

Start Time	Emmitsburg Road (S.R.3001) Southbound			U.S.15 NB On-ramp Westbound			Emmitsburg Road (S.R.3001) Northbound			U.S.15 NB Off-ramp Eastbound			Int. Total
	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	
15:00	0	16	10	0	0	0	5	10	0	1	0	14	56
15:15	0	13	9	0	0	0	8	8	0	3	2	26	69
15:30	0	15	11	0	0	0	3	17	0	0	0	34	80
15:45	0	21	10	0	0	0	6	13	0	0	0	22	72
Total	0	65	40	0	0	0	22	48	0	4	2	96	277
16:00	0	15	16	0	0	0	6	12	0	1	0	30	80
16:15	0	9	12	0	0	0	7	11	0	0	0	30	69
16:30	0	11	14	0	0	0	10	10	0	0	0	37	82
16:45	0	20	6	0	0	0	11	10	0	3	0	31	81
Total	0	55	48	0	0	0	34	43	0	4	0	128	312
17:00	0	12	12	0	0	0	15	18	0	2	0	29	88
17:15	0	17	8	0	0	0	8	18	0	2	0	41	94
17:30	0	18	7	0	0	0	3	19	0	4	0	46	97
17:45	0	14	9	0	0	0	7	9	0	0	0	36	75
Total	0	61	36	0	0	0	33	64	0	8	0	152	354
Grand Total	0	181	124	0	0	0	89	155	0	16	2	376	943
Apprch %	0	59.3	40.7	0	0	0	36.5	63.5	0	4.1	0.5	95.4	
Total %	0	19.2	13.1	0	0	0	9.4	16.4	0	1.7	0.2	39.9	
Passenger Vehicles	0	172	122	0	0	0	85	145	0	15	2	365	906
% Passenger Vehicles	0	95	98.4	0	0	0	95.5	93.5	0	93.8	100	97.1	96.1
Trucks, Buses	0	7	2	0	0	0	3	7	0	0	0	10	29
% Trucks, Buses	0	3.9	1.6	0	0	0	3.4	4.5	0	0	0	2.7	3.1
Tractor Trailers	0	2	0	0	0	0	1	3	0	1	0	1	8
% Tractor Trailers	0	1.1	0	0	0	0	1.1	1.9	0	6.2	0	0.3	0.8



Transportation Resource Group, Inc.
 204 North George Street Suite 110

Location: Emmitsburg Rd / US 15 NB Ramps York, PA 17401
 Municipality: Freedom Township (717) 846-4660
 Day: Thursday
 Counter: Jane

File Name : 38801T6
 Site Code : 00038801
 Start Date : 5/20/2010
 Page No : 1

Groups Printed- Trucks, Buses - Tractor Trailers

Start Time	Emmitsburg Road (S.R.3001) Southbound			U.S.15 NB On-ramp Westbound			Emmitsburg Road (S.R.3001) Northbound			U.S.15 NB Off-ramp Eastbound			Int. Total
	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	
15:00	0	1	0	0	0	0	0	0	0	0	0	0	1
15:15	0	0	0	0	0	0	0	0	0	0	0	2	2
15:30	0	0	0	0	0	0	0	4	0	0	0	2	6
15:45	0	3	0	0	0	0	1	0	0	0	0	1	5
Total	0	4	0	0	0	0	1	4	0	0	0	5	14
16:00	0	0	1	0	0	0	0	1	0	0	0	1	3
16:15	0	0	0	0	0	0	0	0	0	0	0	1	1
16:30	0	1	0	0	0	0	1	0	0	0	0	1	3
16:45	0	3	1	0	0	0	1	0	0	0	0	1	6
Total	0	4	2	0	0	0	2	1	0	0	0	4	13
17:00	0	1	0	0	0	0	0	2	0	1	0	0	4
17:15	0	0	0	0	0	0	1	1	0	0	0	0	2
17:30	0	0	0	0	0	0	0	2	0	0	0	1	3
17:45	0	0	0	0	0	0	0	0	0	0	0	1	1
Total	0	1	0	0	0	0	1	5	0	1	0	2	10
Grand Total	0	9	2	0	0	0	4	10	0	1	0	11	37
Apprch %	0	81.8	18.2	0	0	0	28.6	71.4	0	8.3	0	91.7	
Total %	0	24.3	5.4	0	0	0	10.8	27	0	2.7	0	29.7	
Trucks, Buses	0	7	2	0	0	0	3	7	0	0	0	10	29
% Trucks, Buses	0	77.8	100	0	0	0	75	70	0	0	0	90.9	78.4
Tractor Trailers	0	2	0	0	0	0	1	3	0	1	0	1	8
% Tractor Trailers	0	22.2	0	0	0	0	25	30	0	100	0	9.1	21.6



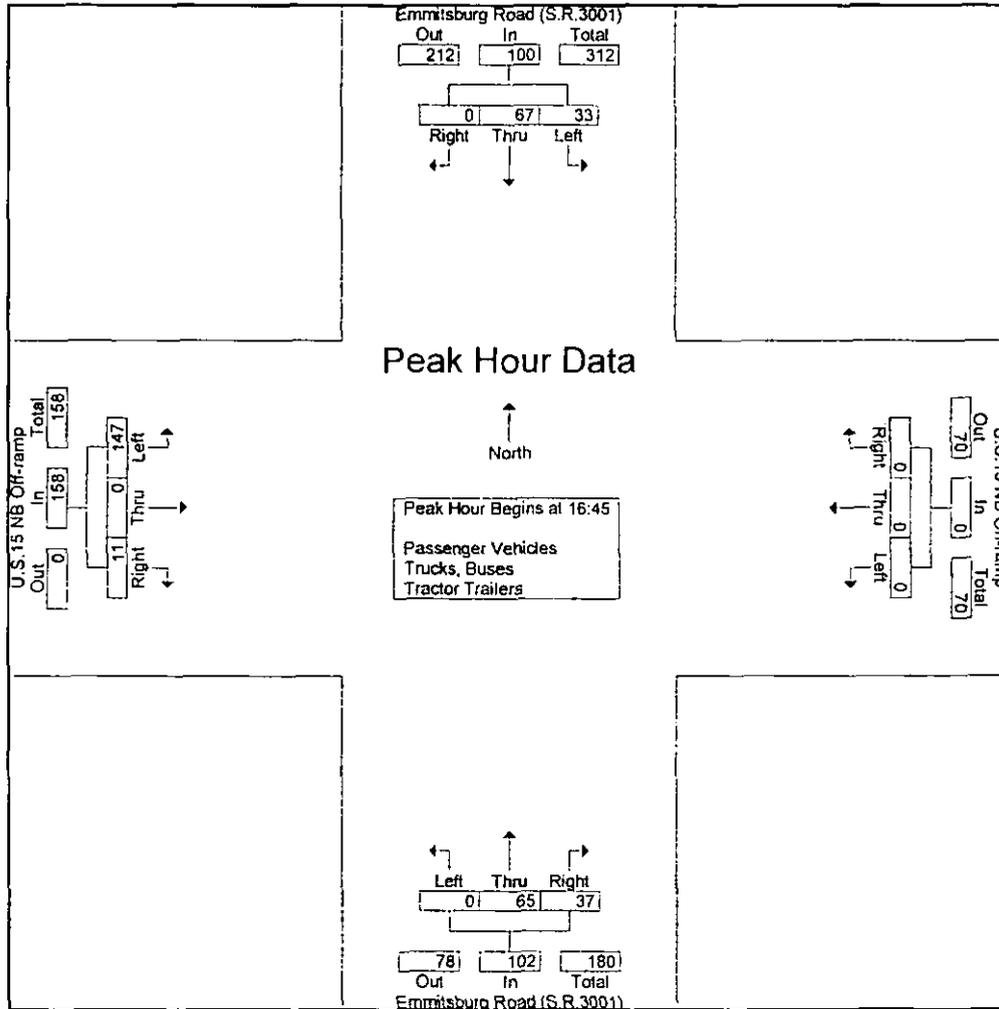
Transportation Resource Group, Inc.
 204 North George Street Suite 110

Location: Emmitsburg Rd / US 15 NB Ramps
 Municipality: Freedom Township
 Day: Thursday
 Counter: Jane

York, PA 17401
 (717) 846-4660

File Name : 38801T6
 Site Code : 00038801
 Start Date : 5/20/2010
 Page No : 2

Start Time	Emmitsburg Road (S.R.3001) Southbound				U.S.15 NB On-ramp Westbound				Emmitsburg Road (S.R.3001) Northbound				U.S.15 NB Off-ramp Eastbound				Intl. Total	
	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total		
Peak Hour Analysis From 15:00 to 17:45 - Peak 1 of 1																		
Peak Hour for Entire Intersection Begins at 16:45																		
16:45	0	20		26						15	18	0	33	2	0	29	31	88
17:00	0	12	12	24	0	0	0	0	8	18	0	26	2	0	41	43	94	
17:15	0	17	8	25	0	0	0	0	3	19	0	22	4	0	46	50	97	
17:30	0	18	7	25	0	0	0	0	37	65	0	102	11	0	147	158	360	
Total Volume	0	67	33	100	0	0	0	0	36.3	63.7	0	102	7	0	93			
% App. Total	0	67	33		0	0	0		.617	.855	.000	.773	.688	.000	.799	.790	.928	
PHF	.000	.838	.688	.962	.000	.000	.000	.000										



PEDESTRIAN COUNT RECAP SHEET

Location: Emmitsburg Rd (S.R.3001) / US 15 NB Ramps

Day/Date: Thursday / May 20, 2010

County: Adams

Observer: Jane

Municipality: Freedom Township

File Name: 3880116ped

TIME PERIOD	Emmitsburg Road (S.R.3001)			US 15 NB Ramps			Total All Directions
	NORTH CROSSWALK	SOUTH CROSSWALK	Total NB / SB	EAST CROSSWALK	WEST CROSSWALK	Total EB / WB	
3:00PM - 3:15PM	0	0	0	0	2	2	2
3:15PM - 3:30PM	0	0	0	0	0	0	0
3:30PM - 3:45PM	0	0	0	2	0	2	2
3:45PM - 4:00PM	0	0	0	0	0	0	0
4:00PM - 4:15PM	0	0	0	0	0	0	0
4:15PM - 4:30PM	0	0	0	0	0	0	0
4:30PM - 4:45PM	0	0	0	0	0	0	0
4:45PM - 5:00PM	0	0	0	0	0	0	0
5:00PM - 5:15PM	0	0	0	0	0	0	0
5:15PM - 5:30PM	0	0	0	0	0	0	0
5:30PM - 5:45PM	0	0	0	0	0	0	0
5:45PM - 6:00PM	0	0	0	0	0	0	0
TOTAL PEDS	0	0	0	2	2	4	4

	PM PEAK HOUR (3:00 PM to 6:00 PM)
Peak Pedestrian Hour	3:00 PM to 4:00 PM
Peak North Crosswalk Total	0
Peak South Crosswalk Total	0
Peak East Crosswalk Total	2
Peak West Crosswalk Total	2
Peak Hour Total	4



Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4600

Emmitsburg Rd / Rt 15 NB on-off ramp
 Municipality: Cumberland Twp.
 Day: Friday
 Counter: Steve

File Name : 38801155
 Site Code : 03880155
 Start Date : 2/19/2010
 Page No : 1

Groups Printed- Passenger Vehicles - Trucks, Buses - Tractor Trailers

Start Time	Emmitsburg Road Southbound		Emmitsburg Road Northbound		Route 15 NB off ramp Eastbound			Int. Total
	Thru	Left	Right	Thru	Right	Thru	Left	
16:00	25	11	10	16	1	0	35	98
16:15	21	5	9	10	2	0	24	71
16:30	13	11	11	12	1	0	30	78
16:45	18	9	13	12	1	0	34	87
Total	77	36	43	50	5	0	123	334
17:00	19	5	12	13	3	0	34	86
17:15	14	11	7	10	1	0	26	69
17:30	11	6	11	12	1	1	37	79
17:45	10	9	6	10	0	1	14	50
Total	54	31	36	45	5	2	111	284
18:00	15	5	7	6	1	0	28	62
18:15	12	8	10	6	2	0	17	55
18:30	7	9	2	9	1	0	18	46
18:45	5	9	12	9	3	0	15	53
Total	39	31	31	30	7	0	78	216
Grand Total	170	98	110	125	17	2	312	834
Apprch %	63.4	36.6	46.8	53.2	5.1	0.6	94.3	
Total %	20.4	11.8	13.2	15	2	0.2	37.4	
Passenger Vehicles	165	98	110	122	17	2	310	824
% Passenger Vehicles	97.1	100	100	97.6	100	100	99.4	98.8
Trucks, Buses	2	0	0	1	0	0	1	4
% Trucks, Buses	1.2	0	0	0.8	0	0	0.3	0.5
Tractor Trailers	3	0	0	2	0	0	1	6
% Tractor Trailers	1.8	0	0	1.6	0	0	0.3	0.7



Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

Emmitsburg Rd / Rt 15 NB on-off ramp
 Municipality: Cumberland Twp.
 Day: Friday
 Counter: Steve

File Name : 38801155
 Site Code : 03880155
 Start Date : 2/19/2010
 Page No : 1

Groups Printed- Trucks, Buses - Tractor Trailers

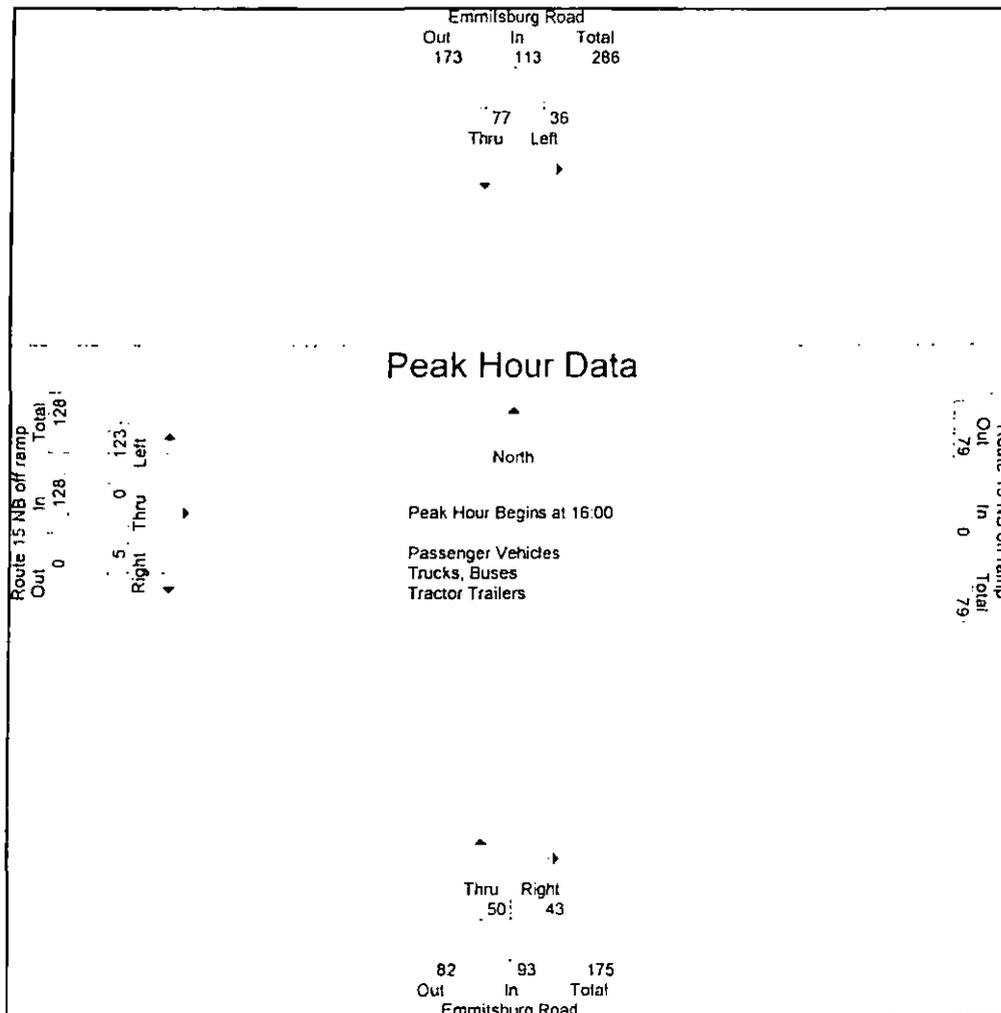
Start Time	Emmitsburg Road Southbound		Emmitsburg Road Northbound		Route 15 NB off ramp Eastbound			Int. Total
	Thru	Left	Right	Thru	Right	Thru	Left	
16:00	1	0	0	1	0	0	0	2
16:15	0	0	0	1	0	0	0	1
16:30	1	0	0	0	0	0	1	2
16:45	1	0	0	0	0	0	1	2
Total	3	0	0	2	0	0	2	7
17:15	1	0	0	0	0	0	0	1
17:45	0	0	0	1	0	0	0	1
Total	1	0	0	1	0	0	0	2
18:15	1	0	0	0	0	0	0	1
Total	1	0	0	0	0	0	0	1
Grand Total	5	0	0	3	0	0	2	10
Apprch %	100	0	0	100	0	0	100	
Total %	50	0	0	30	0	0	20	
Trucks, Buses	2	0	0	1	0	0	1	4
% Trucks, Buses	40	0	0	33.3	0	0	50	40
Tractor Trailers	3	0	0	2	0	0	1	6
% Tractor Trailers	60	0	0	66.7	0	0	50	60



Transportation Resource Group, Inc.
 204 North George Street Suite 110
 York, PA 17401
 (717) 846-4660

File Name : 38801155
 Site Code : 03880155
 Start Date : 2/19/2010
 Page No : 2

Start Time	Emmitsburg Road Southbound			Westbound d	Emmitsburg Road Northbound			Route 15 NB off ramp Eastbound			Int. Total	
	Thru	Left	App. Total		App. Total	Right	Thru	App. Total	Right	Thru		Left
Peak Hour Analysis From 16:00 to 18:45 - Peak 1 of 1												
Peak Hour for Entire Intersection Begins at 16:00												
16:00	25	11	36	0	10	16	26	1	0	35	36	98
16:15	21	5	26	0	9	10	19	2	0	24	26	71
16:30	13	11	24	0	11	12	23	1	0	30	31	78
16:45	18	9	27	0	13	12	25	1	0	34	35	87
Total Volume	77	36	113	0	43	50	93	5	0	123	128	334
% App. Total	68.1	31.9			46.2	53.8		3.9	0	96.1		
PHF	.770	.818	.785	.000	.827	.781	.894	.625	.000	.879	.889	.852





Transportation Resource Group, Inc.
 204 North George Street Suite 110
 York, PA 17401
 (717) 846-4660

Location: Emmitsburg Rd / US 15 NB Ramps
 Municipality: Freedom Township
 Day: Friday
 Counter: Val

File Name : 38801F6
 Site Code : 00388011
 Start Date : 5/21/2010
 Page No : 1

Groups Printed- Passenger Vehicles - Trucks, Buses - Tractor Trailers

Start Time	Emmitsburg Road (S.R.3001) Southbound				U.S. 15 NB On-Ramp Westbound				Emmitsburg Road (S.R.3001) Northbound				U.S. 15 NB Off-Ramp Eastbound				Int. Total
	Right	Thru	Left	Other	Right	Thru	Left	Other	Right	Thru	Left	Other	Right	Thru	Left	Other	
16:00	0	18	19	0	0	0	0	0	10	25	0	0	0	0	38	0	110
16:15	0	18	16	0	0	0	0	0	6	16	0	0	1	0	27	0	84
16:30	0	20	18	0	0	0	0	0	11	22	0	0	1	0	29	0	101
16:45	0	14	11	0	0	0	0	0	12	13	0	0	2	0	37	0	89
Total	0	70	64	0	0	0	0	0	39	76	0	0	4	0	131	0	384
17:00	0	22	27	0	0	0	0	0	16	15	0	0	0	0	27	0	107
17:15	0	16	8	0	0	0	0	0	8	18	0	0	1	1	25	0	77
17:30	0	17	4	0	0	0	0	0	10	6	0	0	3	0	34	0	74
17:45	0	17	11	0	0	0	0	0	11	17	0	0	1	0	25	0	82
Total	0	72	50	0	0	0	0	0	45	56	0	0	5	1	111	0	340
18:00	0	10	5	0	0	0	0	0	5	10	0	0	4	0	36	0	70
18:15	0	16	6	0	0	0	0	0	13	14	0	0	1	0	17	0	67
18:30	0	12	11	0	0	0	0	0	2	7	0	0	0	0	19	0	51
18:45	0	14	7	0	0	0	0	0	4	11	0	0	0	1	21	0	58
Total	0	52	29	0	0	0	0	0	24	42	0	0	5	1	93	0	246
Grand Total	0	194	143	0	0	0	0	0	108	174	0	0	14	2	335	0	970
Apprch %	0	57.6	42.4	0	0	0	0	0	38.3	61.7	0	0	4	0.6	95.4	0	
Total %	0	20	14.7	0	0	0	0	0	11.1	17.9	0	0	1.4	0.2	34.5	0	
Passenger Vehicles	0	177	134	0	0	0	0	0	106	162	0	0	13	2	319	0	913
% Passenger Vehicles	0	91.2	93.7	0	0	0	0	0	98.1	93.1	0	0	92.9	100	95.2	0	94.1
Trucks, Buses	0	16	9	0	0	0	0	0	2	12	0	0	1	0	14	0	54
% Trucks, Buses	0	8.2	6.3	0	0	0	0	0	1.9	6.9	0	0	7.1	0	4.2	0	5.6
Tractor Trailers	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	3
% Tractor Trailers	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0	0.3



Transportation Resource Group, Inc.
 204 North George Street Suite 110

Location: Emmitsburg Rd / US 15 NB Ramps York, PA 17401
 Municipality: Freedom Township (717) 846-4660
 Day: Friday
 Counter: Val

File Name : 38801F6
 Site Code : 00388011
 Start Date : 5/21/2010
 Page No : 1

Groups Printed- Trucks, Buses - Tractor Trailers

Start Time	Emmitsburg Road (S.R.3001) Southbound				U.S. 15 NB On-Ramp Westbound				Emmitsburg Road (S.R.3001) Northbound				U.S. 15 NB Off-Ramp Eastbound				Int. Total
	Right	Thru	Left	Other	Right	Thru	Left	Other	Right	Thru	Left	Other	Right	Thru	Left	Other	
16:00	0	4	3	0	0	0	0	0	0	1	0	0	0	0	3	0	11
16:15	0	4	0	0	0	0	0	0	1	0	0	0	0	0	1	0	6
16:30	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	3
16:45	0	0	2	0	0	0	0	0	0	1	0	0	1	0	2	0	6
Total	0	8	5	0	0	0	0	0	1	4	0	0	1	0	7	0	26
17:00	0	3	2	0	0	0	0	0	1	2	0	0	0	0	1	0	9
17:15	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
17:30	0	2	0	0	0	0	0	0	0	1	0	0	0	0	1	0	4
17:45	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	2
Total	0	5	2	0	0	0	0	0	1	5	0	0	0	0	3	0	16
18:00	0	1	0	0	0	0	0	0	0	2	0	0	0	0	3	0	6
18:15	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	2
18:30	0	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	4
18:45	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	3
Total	0	4	2	0	0	0	0	0	0	3	0	0	0	0	6	0	15
Grand Total	0	17	9	0	0	0	0	0	2	12	0	0	1	0	16	0	57
Apprch %	0	65.4	34.6	0	0	0	0	0	14.3	85.7	0	0	5.9	0	94.1	0	
Total %	0	29.8	15.8	0	0	0	0	0	3.5	21.1	0	0	1.8	0	28.1	0	
Trucks, Buses	0	16	9	0	0	0	0	0	2	12	0	0	1	0	14	0	54
% Trucks, Buses	0	94.1	100	0	0	0	0	0	100	100	0	0	100	0	87.5	0	94.7
Tractor Trailers	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	3
% Tractor Trailers	0	5.9	0	0	0	0	0	0	0	0	0	0	0	0	12.5	0	5.3



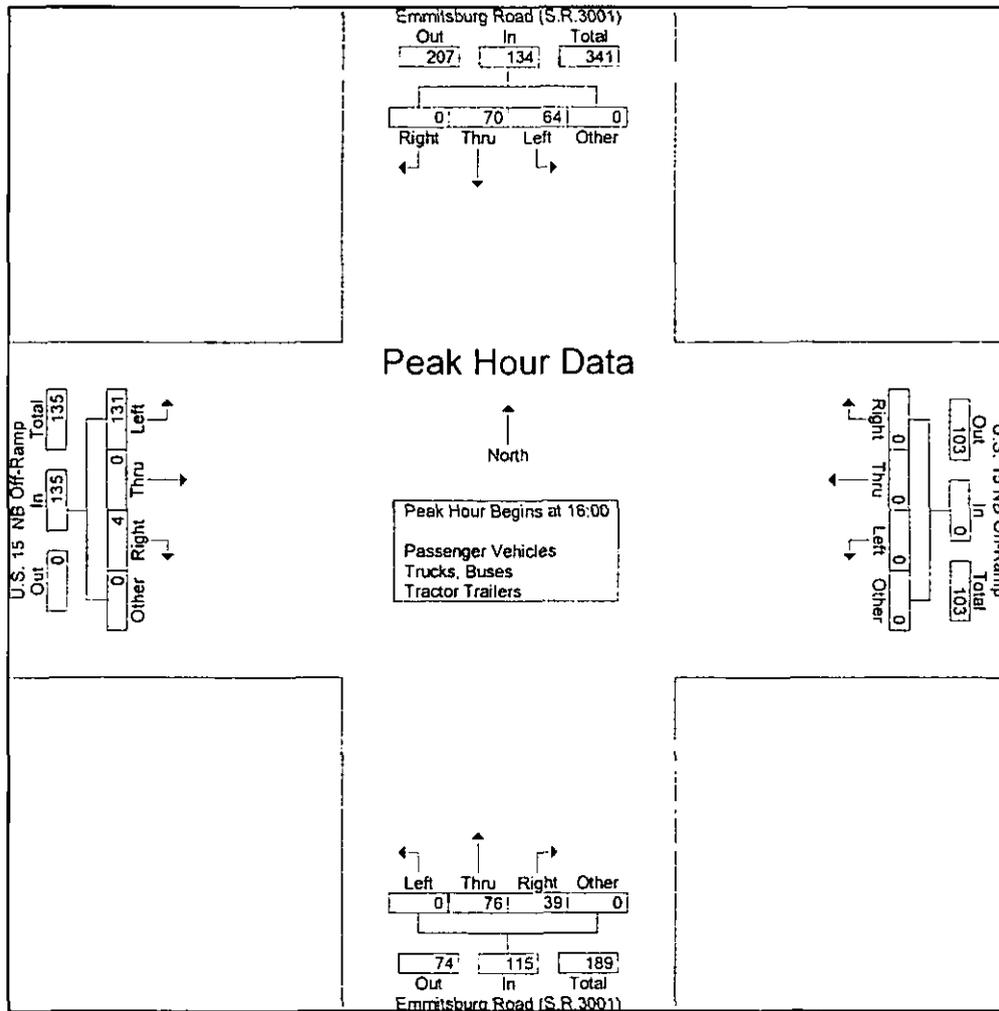
Transportation Resource Group, Inc.

204 North George Street Suite 110

Location: Emmitsburg Rd / US 15 NB Ramps York, PA 17401
 Municipality: Freedom Township (717) 846-4660
 Day: Friday
 Counter: Val

File Name : 38801F6
 Site Code : 00388011
 Start Date : 5/21/2010
 Page No : 2

Start Time	Emmitsburg Road (S.R.3001) Southbound					U.S. 15 NB On-Ramp Westbound					Emmitsburg Road (S.R.3001) Northbound					U.S. 15 NB Off-Ramp Eastbound					Int. Total
	Right	Thru	Left	Other	App. Total	Right	Thru	Left	Other	App. Total	Right	Thru	Left	Other	App. Total	Right	Thru	Left	Other	App. Total	
Peak Hour Analysis From 16:00 to 18:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 16:00																					
16:00	0	18	19	0	37	0	0	0	0	0	10	25	0	0	35	0	0	38	0	38	110
16:15	0	18	16	0	34	0	0	0	0	0	6	16	0	0	22	1	0	27	0	28	84
16:30	0	20	18	0	38	0	0	0	0	0	11	22	0	0	33	1	0	29	0	30	101
16:45	0	14	11	0	25	0	0	0	0	0	12	13	0	0	25	2	0	37	0	39	89
Total Volume	0	70	64	0	134	0	0	0	0	0	39	76	0	0	115	4	0	131	0	135	384
% App. Total	0	52.2	47.8	0		0	0	0	0	0	33.9	66.1	0	0		3	0	97	0		
PHF	.000	.875	.842	.000	.882	.000	.000	.000	.000	.000	.813	.760	.000	.000	.821	.500	.000	.862	.000	.865	.873



PEDESTRIAN COUNT RECAP SHEET

Location: Emmitsburg Rd (S.R.3001) / US 15 NB Ramps

Day/Date: Friday / May 21, 2010

County: Adams

Observer: Val

Municipality: Freedom Township

File Name: 38801F6ped

TIME PERIOD	Emmitsburg Road (S.R.3001)			US 15 NB Ramps			Total All Directions
	NORTH CROSSWALK	SOUTH CROSSWALK	Total NB / SB	EAST CROSSWALK	WEST CROSSWALK	Total EB / WB	
4:00PM - 4:15PM	0	0	0	0	0	0	0
4:15PM - 4:30PM	0	0	0	0	0	0	0
4:30PM - 4:45PM	0	0	0	0	0	0	0
4:45PM - 5:00PM	0	0	0	0	0	0	0
5:00PM - 5:15PM	0	0	0	0	0	0	0
5:15PM - 5:30PM	1	0	1	0	0	0	1
5:30PM - 5:45PM	0	0	0	0	0	0	0
5:45 PM - 6:00 PM	0	0	0	0	0	0	0
6:00 PM - 6:15 PM	0	0	0	0	0	0	0
6:15 PM - 6:30 PM	0	0	0	0	0	0	0
6:30 PM - 6:45 PM	0	0	0	0	0	0	0
6:45 PM - 7:00 PM	0	1	1	0	0	0	1
TOTAL PEDS	1	1	2	0	0	0	2

	PM PEAK HOUR (4:00 PM to 7:00 PM)
Peak Pedestrian Hour	5:00 PM to 6:00 PM
Peak North Crosswalk Total	1
Peak South Crosswalk Total	0
Peak East Crosswalk Total	0
Peak West Crosswalk Total	0
Peak Hour Total	1



Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

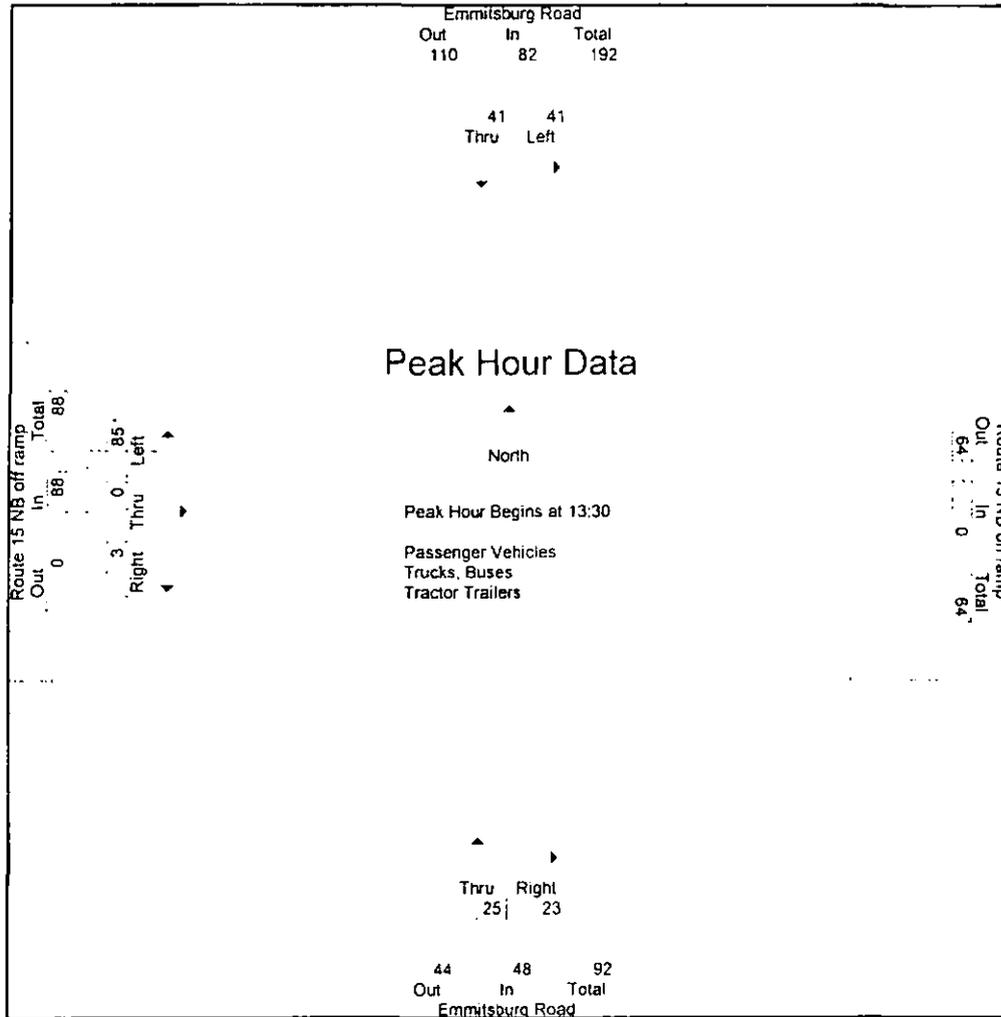
File Name : 38801S5

Site Code : 03880105

Start Date : 2/20/2010

Page No : 2

Start Time	Emmitsburg Road Southbound			Westbound	Emmitsburg Road Northbound			Route 15 NB off ramp Eastbound				Int. Total
	Thru	Left	App. Total		App. Total	Right	Thru	App. Total	Right	Thru	Left	
Peak Hour Analysis From 12:00 to 14:45 - Peak 1 of 1												
Peak Hour for Entire Intersection Begins at 13:30												
13:30	7	13	20	0	6	4	10	1	0	19	20	50
13:45	15	7	22	0	4	4	8	1	0	20	21	51
14:00	13	10	23	0	5	8	13	1	0	18	19	55
14:15	6	11	17	0	8	9	17	0	0	28	28	62
Total Volume	41	41	82	0	23	25	48	3	0	85	88	218
% App. Total	50	50			47.9	52.1		3.4	0	96.6		
PHF	.683	.788	.891	.000	.719	.694	.706	.750	.000	.759	.786	.879





Transportation Resource Group, Inc.

204 North George Street Suite 110
 York, PA 17401
 (717) 846-4660

Location: Emmitsburg Rd / US 15 NB Ramps
 Municipality: Freedom Township
 Day: Saturday
 Counter: Joe

File Name : 38801S6
 Site Code : 00388011
 Start Date : 5/22/2010
 Page No : 1

Groups Printed- Passenger Vehicles - Trucks, Buses - Tractor Trailers

Start Time	Emmitsburg Road (S.R.3001) Southbound			U.S. 15 NB On-Ramp Westbound			Emmitsburg Road (S.R.3001) Northbound			U.S. 15 NB Off-Ramp Eastbound			Int. Total
	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	
12:00	0	11	13	0	0	0	8	4	0	1	0	14	51
12:15	0	13	10	0	0	0	2	5	0	2	0	16	48
12:30	0	7	9	0	0	0	8	7	0	1	0	19	51
12:45	0	12	11	0	0	0	7	7	0	2	0	24	63
Total	0	43	43	0	0	0	25	23	0	6	0	73	213
13:00	0	9	7	0	0	0	6	8	0	1	0	27	58
13:15	0	10	11	0	0	0	4	14	0	1	0	25	65
13:30	0	13	15	0	0	0	5	5	0	0	0	25	63
13:45	0	20	12	0	0	0	3	12	0	0	0	16	63
Total	0	52	45	0	0	0	18	39	0	2	0	93	249
14:00	0	13	13	0	0	0	7	14	0	2	0	18	67
14:15	0	13	6	0	0	0	4	9	0	1	1	23	57
14:30	0	12	10	0	0	0	9	8	0	0	0	25	64
14:45	0	10	12	0	0	0	9	7	0	1	2	13	54
Total	0	48	41	0	0	0	29	38	0	4	3	79	242
Grand Total	0	143	129	0	0	0	72	100	0	12	3	245	704
Apprch %	0	52.6	47.4	0	0	0	41.9	58.1	0	4.6	1.2	94.2	
Total %	0	20.3	18.3	0	0	0	10.2	14.2	0	1.7	0.4	34.8	
Passenger Vehicles	0	142	124	0	0	0	72	97	0	12	3	235	685
% Passenger Vehicles	0	99.3	96.1	0	0	0	100	97	0	100	100	95.9	97.3
Trucks, Buses	0	1	5	0	0	0	0	3	0	0	0	8	17
% Trucks, Buses	0	0.7	3.9	0	0	0	0	3	0	0	0	3.3	2.4
Tractor Trailers	0	0	0	0	0	0	0	0	0	0	0	2	2
% Tractor Trailers	0	0	0	0	0	0	0	0	0	0	0	0.8	0.3



Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

Location: Emmitsburg Rd / US 15 NB Ramps

Municipality: Freedom Township

Day: Saturday

Counter: Joe

File Name : 38801S6

Site Code : 00388011

Start Date : 5/22/2010

Page No : 1

Groups Printed- Trucks, Buses - Tractor Trailers

Start Time	Emmitsburg Road (S.R.3001) Southbound			U.S. 15 NB On-Ramp Westbound			Emmitsburg Road (S.R.3001) Northbound			U.S. 15 NB Off-Ramp Eastbound			Int. Total
	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	
12:00	0	0	1	0	0	0	0	0	0	0	0	1	2
12:30	0	0	0	0	0	0	0	1	0	0	0	0	1
12:45	0	0	1	0	0	0	0	1	0	0	0	2	4
Total	0	0	2	0	0	0	0	2	0	0	0	3	7
13:00	0	0	0	0	0	0	0	0	0	0	0	1	1
13:15	0	1	0	0	0	0	0	0	0	0	0	0	1
13:30	0	0	0	0	0	0	0	0	0	0	0	2	2
13:45	0	0	1	0	0	0	0	1	0	0	0	0	2
Total	0	1	1	0	0	0	0	1	0	0	0	3	6
14:00	0	0	0	0	0	0	0	0	0	0	0	2	2
14:15	0	0	0	0	0	0	0	0	0	0	0	1	1
14:30	0	0	1	0	0	0	0	0	0	0	0	1	2
14:45	0	0	1	0	0	0	0	0	0	0	0	0	1
Total	0	0	2	0	0	0	0	0	0	0	0	4	6
Grand Total	0	1	5	0	0	0	0	3	0	0	0	10	19
Approch %	0	16.7	83.3	0	0	0	0	100	0	0	0	100	
Total %	0	5.3	26.3	0	0	0	0	15.8	0	0	0	52.6	
Trucks, Buses	0	1	5	0	0	0	0	3	0	0	0	8	17
% Trucks, Buses	0	100	100	0	0	0	0	100	0	0	0	80	89.5
Tractor Trailers	0	0	0	0	0	0	0	0	0	0	0	2	2
% Tractor Trailers	0	0	0	0	0	0	0	0	0	0	0	20	10.5



Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

Location: Emmitsburg Rd / US 15 NB Ramps

Municipality: Freedom Township

Day: Saturday

Counter: Joe

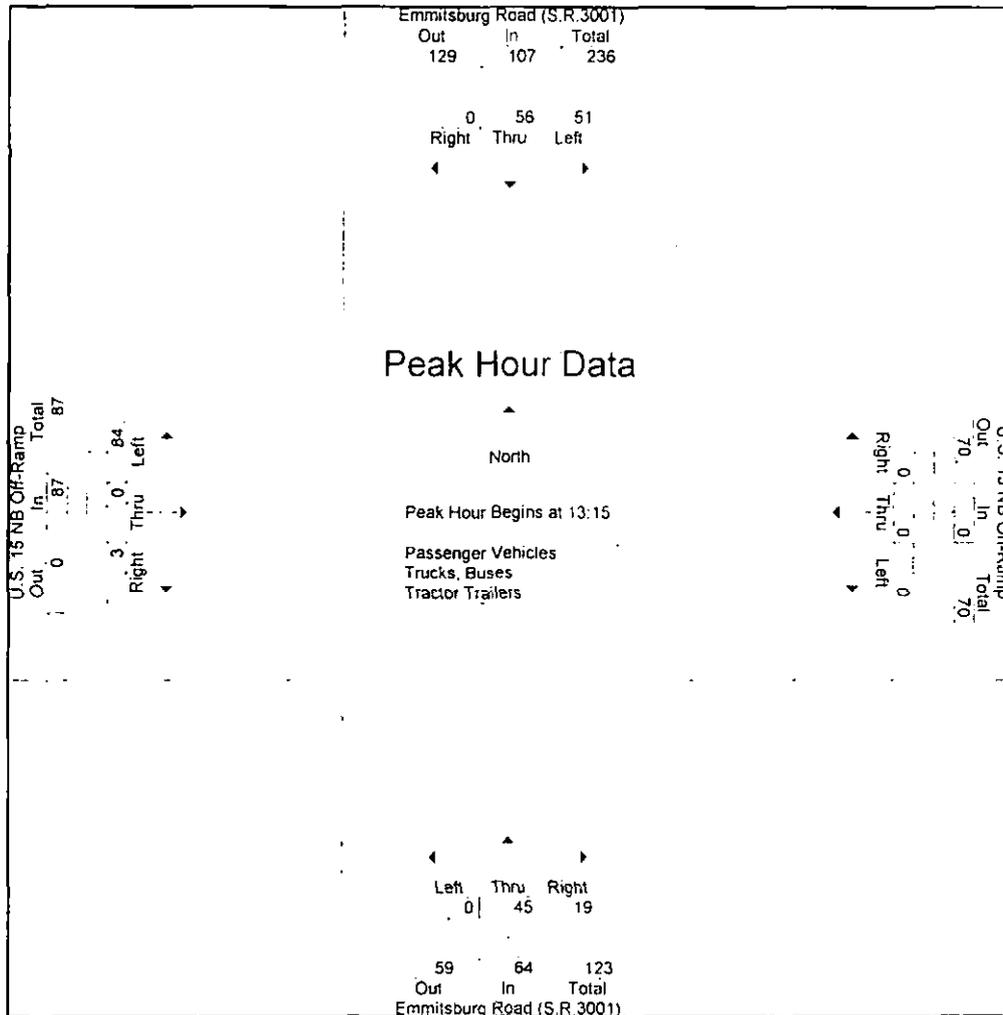
File Name : 38801S6

Site Code : 00388011

Start Date : 5/22/2010

Page No : 2

Start Time	Emmitsburg Road (S.R.3001) Southbound				U.S. 15 NB On-Ramp Westbound				Emmitsburg Road (S.R.3001) Northbound				U.S. 15 NB Off-Ramp Eastbound				Int. Total
	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	
Peak Hour Analysis From 12:00 to 14:45 - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 13:15																	
13:15	0	10	11	21	0	0	0	0	4	14	0	18	0	0	25	26	
13:30	0	13	15	28	0	0	0	0	5	5	0	10	0	0	25	25	63
13:45	0	20	12	32	0	0	0	0	3	12	0	15	0	0	16	16	63
14:00	0	13	13	26	0	0	0	0	7	14	0	21	2	0	18	20	67
Total Volume	0	56	51	107	0	0	0	0	19	45	0	64	3	0	84	87	258
% App. Total	0	52.3	47.7		0	0	0	0	29.7	70.3	0		3.4	0	96.6		
PHF	.000	.700	.850	.836	.000	.000	.000	.000	.679	.804	.000	.762	.375	.000	.840	.837	.963



PEDESTRIAN COUNT RECAP SHEET

Location: Emmitsburg Rd (S.R.3001) / US 15 NB Ramps

Day/Date: Saturday / May 22, 2010

County: Adams

Observer: Joe

Municipality: Freedom Township

File Name: 38801S6ped

TIME PERIOD	Emmitsburg Road (S.R.3001)			US 15 NB Ramps			Total All Directions
	NORTH CROSSWALK	SOUTH CROSSWALK	Total NB / SB	EAST CROSSWALK	WEST CROSSWALK	Total EB / WB	
12:00 PM - 12:15 PM	0	0	0	0	0	0	0
12:15 PM - 12:30 PM	0	0	0	0	0	0	0
12:30 PM - 12:45 PM	0	0	0	0	0	0	0
12:45 PM - 1:00 PM	0	0	0	0	0	0	0
1:00 PM - 1:15 PM	0	0	0	0	0	0	0
1:15 PM - 1:30 PM	0	0	0	0	0	0	0
1:30 PM - 1:45 PM	0	0	0	0	0	0	0
1:45 PM - 2:00 PM	0	0	0	0	0	0	0
2:00 PM - 2:15 PM	0	0	0	0	0	0	0
2:15 PM - 2:30 PM	0	0	0	0	0	0	0
2:30 PM - 2:45 PM	0	0	0	0	0	0	0
2:45 PM - 3:00 PM	0	0	0	0	0	0	0
TOTAL PEDS	0	0	0	0	0	0	0

	PM PEAK HOUR (12:00 PM to 3:00 PM)
Peak Pedestrian Hour	- NA -
Peak North Crosswalk Total	0
Peak South Crosswalk Total	0
Peak East Crosswalk Total	0
Peak West Crosswalk Total	0
Peak Hour Total	0



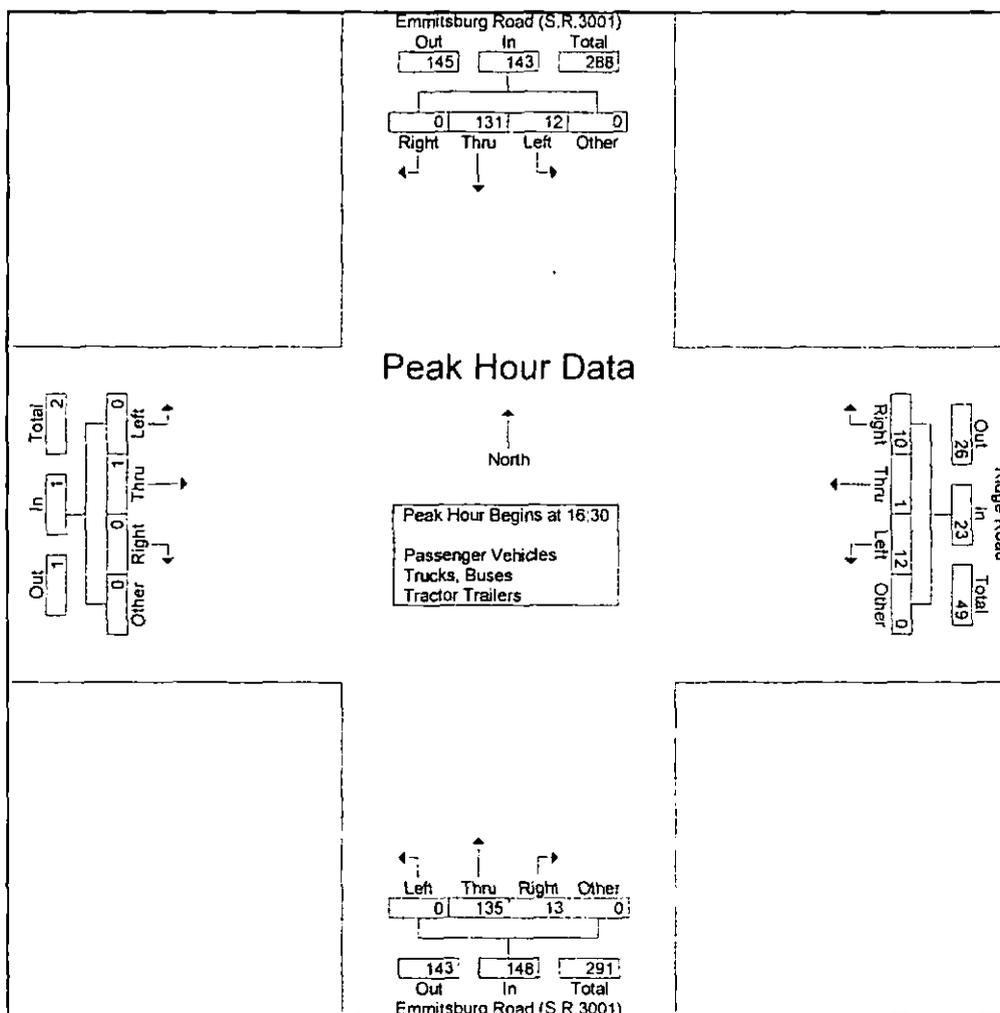
Transportation Resource Group, Inc.
 204 North George Street Suite 110

Location: Emmitsburg Road / Ridge Road
 Municipality: Cumberland Township
 Day: Thursday
 Counter: Mike

York, PA 17401
 (717) 846-4660

File Name : 38801T8
 Site Code : 00000000
 Start Date : 5/20/2010
 Page No : 2

Start Time	Emmitsburg Road (S.R.3001) Southbound					Ridge Road Westbound					Emmitsburg Road (S.R.3001) Northbound					Eastbound					Int. Total
	Right	Thru	Left	Other	App. Total	Right	Thru	Left	Other	App. Total	Right	Thru	Left	Other	App. Total	Right	Thru	Left	Other	App. Total	
Peak Hour Analysis From 16:00 to 17:30 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 16:30																					
16:30	0	29	4	0	33	1	0	4	0	5	1	33	0	0	34	0	0	0	0	0	72
16:45	0	38	0	0	38	0	0	1	0	1	0	32	0	0	32	0	0	0	0	0	71
17:00	0	39	4	0	43	5	0	3	0	8	3	39	0	0	42	0	0	0	0	0	93
17:15	0	25	4	0	29	4	1	4	0	9	9	31	0	0	40	0	1	0	0	1	79
Total Volume	0	131	12	0	143	10	1	12	0	23	13	135	0	0	148	0	1	0	0	1	315
% App. Total	0	91.6	8.4	0		43.5	4.3	52.2	0		8.8	91.2	0	0		0	100	0	0		
PHF	.000	.840	.750	.000	.831	.500	.250	.750	.000	.639	.361	.865	.000	.000	.881	.000	.250	.000	.000	.250	.847



PEDESTRIAN COUNT RECAP SHEET

Location: Emmitsburg Rd (S.R.3001) / Ridge Road

Day/Date: Thursday / May 20, 2010

County: Adams

Observer: Mike

Municipality: Cumberland Township

File Name: 38801T8ped

TIME PERIOD	Emmitsburg Road (S.R.3001)			Ridge Road			Total All Directions
	NORTH CROSSWALK	SOUTH CROSSWALK	Total NB / SB	EAST CROSSWALK	WEST CROSSWALK	Total EB / WB	
4:00PM - 4:15PM	0	0	0	0	0	0	0
4:15PM - 4:30PM	0	0	0	0	0	0	0
4:30PM - 4:45PM	0	0	0	0	0	0	0
4:45PM - 5:00PM	0	0	0	0	0	0	0
5:00PM - 5:15PM	0	0	0	0	0	0	0
5:15PM - 5:30PM	0	0	0	0	0	0	0
5:30PM - 5:45PM	0	0	0	0	0	0	0
5:45PM - 6:00PM	0	0	0	0	0	0	0
TOTAL PEDS	0	0	0	0	0	0	0

	PM PEAK HOUR (3:00 PM to 6:00 PM)
Peak Pedestrian Hour	- NA -
Peak North Crosswalk Total	0
Peak South Crosswalk Total	0
Peak East Crosswalk Total	0
Peak West Crosswalk Total	0
Peak Hour Total	0



Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

Location: Emmitsburg Road / Ridge Road

Municipality: Cumberland Township

Day: Friday

Counter: Dan

File Name : 38801F8

Site Code : 00388013

Start Date : 5/21/2010

Page No : 1

Groups Printed- Passenger Vehicles - Trucks, Buses - Tractor Trailers

Start Time	Emmitsburg Road (S.R.3001) Southbound		Ridge Road Westbound		Emmitsburg Road (S.R.3001) Northbound		Int. Total
	Thru	Left	Right	Left	Right	Thru	
16:00	29	5	1	5	3	36	79
16:15	31	1	1	6	1	41	81
16:30	33	3	1	5	1	46	89
16:45	42	4	3	8	3	30	90
Total	135	13	6	24	8	153	339
17:00	28	3	0	3	8	28	70
17:15	42	3	2	3	2	30	82
17:30	33	3	1	3	6	33	79
17:45	29	1	3	7	5	37	82
Total	132	10	6	16	21	128	313
18:00	31	5	3	5	3	42	89
18:15	23	2	5	4	1	30	65
18:30	25	2	1	1	0	25	54
18:45	30	5	5	5	4	30	79
Total	109	14	14	15	8	127	287
Grand Total	376	37	26	55	37	408	939
Apprch %	91	9	32.1	67.9	8.3	91.7	
Total %	40	3.9	2.8	5.9	3.9	43.5	
Passenger Vehicles	356	37	26	41	36	401	897
% Passenger Vehicles	94.7	100	100	74.5	97.3	98.3	95.5
Trucks, Buses	20	0	0	14	1	6	41
% Trucks, Buses	5.3	0	0	25.5	2.7	1.5	4.4
Tractor Trailers	0	0	0	0	0	1	1
% Tractor Trailers	0	0	0	0	0	0.2	0.1



Transportation Resource Group, Inc.
 204 North George Street Suite 110

Location: Emmitsburg Road / Ridge Road
 Municipality: Cumberland Township
 Day: Friday
 Counter: Dan

York, PA 17401
 (717) 846-4660

File Name : 38801F8
 Site Code : 00388013
 Start Date : 5/21/2010
 Page No : 1

Groups Printed- Trucks, Buses - Tractor Trailers

Start Time	Emmitsburg Road (S.R.3001) Southbound		Ridge Road Westbound		Emmitsburg Road (S.R.3001) Northbound		Int. Total
	Thru	Left	Right	Left	Right	Thru	
16:00	1	0	0	1	0	0	2
16:15	4	0	0	1	0	1	6
16:30	3	0	0	1	1	0	5
16:45	3	0	0	2	0	2	7
Total	11	0	0	5	1	3	20
17:00	2	0	0	2	0	2	6
17:30	1	0	0	1	0	1	3
17:45	0	0	0	1	0	0	1
Total	3	0	0	4	0	3	10
18:00	2	0	0	1	0	0	3
18:15	2	0	0	2	0	1	5
18:45	2	0	0	2	0	0	4
Total	6	0	0	5	0	1	12
Grand Total	20	0	0	14	1	7	42
Apprch %	100	0	0	100	12.5	87.5	
Total %	47.6	0	0	33.3	2.4	16.7	
Trucks, Buses	20	0	0	14	1	6	41
% Trucks, Buses	100	0	0	100	100	85.7	97.6
Tractor Trailers	0	0	0	0	0	1	1
% Tractor Trailers	0	0	0	0	0	14.3	2.4



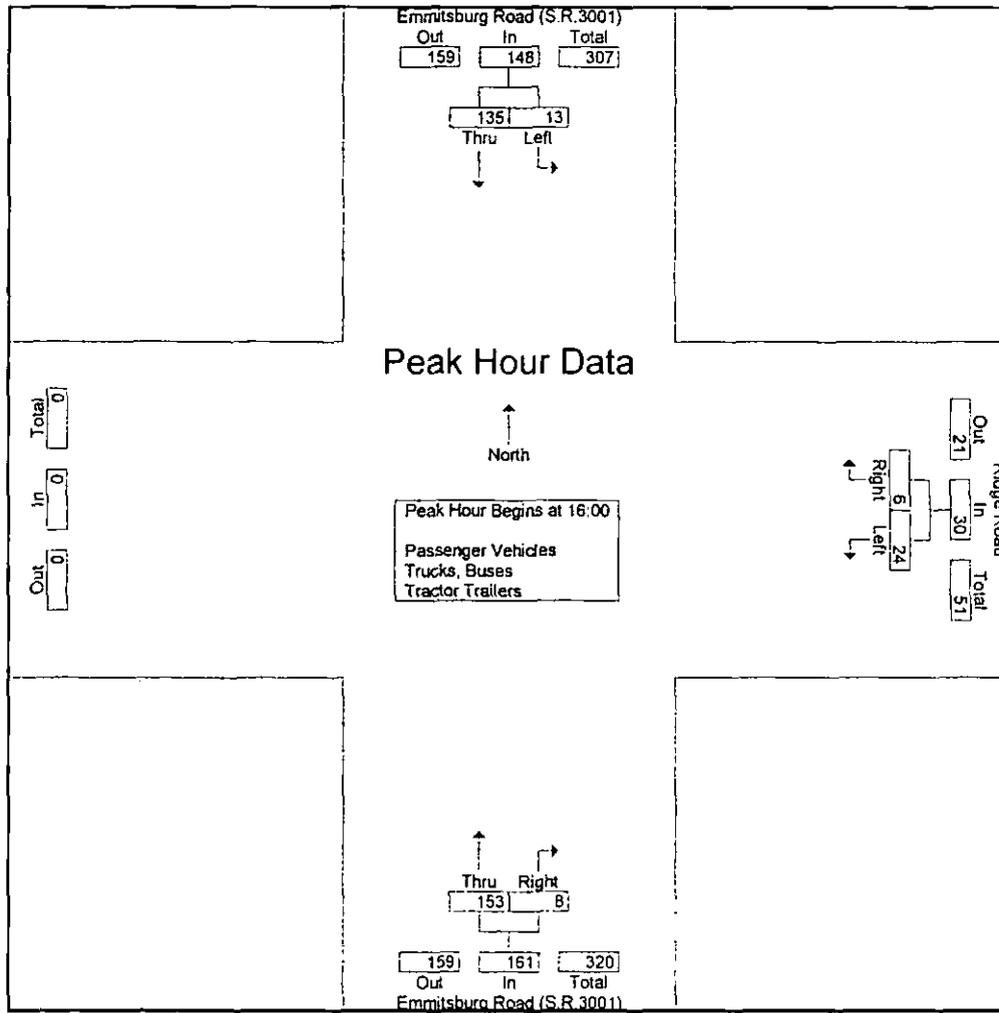
Transportation Resource Group, Inc.
 204 North George Street Suite 110

Location: Emmitsburg Road / Ridge Road
 Municipality: Cumberland Township
 Day: Friday
 Counter: Dan

York, PA 17401
 (717) 846-4660

File Name : 38801F8
 Site Code : 00388013
 Start Date : 5/21/2010
 Page No : 2

Start Time	Emmitsburg Road (S.R.3001) Southbound			Ridge Road Westbound			Emmitsburg Road (S.R.3001) Northbound			Eastbound	Int. Total
	Thru	Left	App. Total	Right	Left	App. Total	Right	Thru	App. Total	App. Total	
Peak Hour Analysis From 16:00 to 18:45 - Peak 1 of 1											
Peak Hour for Entire Intersection Begins at 16:00											
16:00	29	5	34	1	5	6	3	36	39	0	79
16:15	31	1	32	1	6	7	1	41	42	0	81
16:30	33	3	36	1	5	6	1	46	47	0	89
16:45	42	4	46	3	8	11	3	30	33	0	90
Total Volume	135	13	148	6	24	30	8	153	161	0	339
% App. Total	91.2	8.8		20	80		5	95			
PHF	.804	.650	.804	.500	.750	.682	.667	.832	.856	.000	.942



PEDESTRIAN COUNT RECAP SHEET

Location: Emmitsburg Rd (S.R.3001) / Ridge Road

Day/Date: Friday / May 21, 2010

County: Adams

Observer: Dan

Municipality: Cumberland Township

File Name: 38801F8ped

TIME PERIOD	Emmitsburg Road (S.R.3001)			Ridge Road			Total All Directions
	NORTH CROSSWALK	SOUTH CROSSWALK	Total NB / SB	EAST CROSSWALK	WEST CROSSWALK	Total EB / WB	
4:00PM - 4:15PM	0	0	0	0	0	0	0
4:15PM - 4:30PM	0	0	0	0	0	0	0
4:30PM - 4:45PM	0	0	0	0	0	0	0
4:45PM - 5:00PM	0	0	0	0	0	0	0
5:00PM - 5:15PM	0	0	0	0	0	0	0
5:15PM - 5:30PM	0	0	0	0	0	0	0
5:30PM - 5:45PM	0	0	0	0	0	0	0
5:45 PM - 6:00 PM	0	0	0	0	0	0	0
6:00 PM - 6:15 PM	0	0	0	0	0	0	0
6:15 PM - 6:30 PM	0	0	0	0	0	0	0
6:30 PM - 6:45 PM	0	0	0	0	0	0	0
6:45 PM - 7:00 PM	0	0	0	0	0	0	0
TOTAL PEDS	0	0	0	0	0	0	0

	PM PEAK HOUR (4:00 PM to 7:00 PM)
Peak Pedestrian Hour	- NA -
Peak North Crosswalk Total	0
Peak South Crosswalk Total	0
Peak East Crosswalk Total	0
Peak West Crosswalk Total	0
Peak Hour Total	0



Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

Location: Emmitsburg Road / Ridge Road
 Municipality: Cumberland Township
 Day: Saturday
 Counter: Chris

File Name : 38801S8
 Site Code : 03880101
 Start Date : 5/22/2010
 Page No : 1

Groups Printed- Passenger Vehicles - Trucks, Buses - Tractor Trailers

Start Time	Emmitsburg Road (S.R.3001) Southbound		Ridge Road Westbound		Emmitsburg Road (S.R.3001) Northbound		Int. Total
	Thru	Left	Right	Left	Right	Thru	
12:00	26	4	1	3	4	26	64
12:15	34	2	1	3	2	19	61
12:30	28	4	4	2	0	26	64
12:45	32	1	2	2	1	35	73
Total	120	11	8	10	7	106	262
13:00	29	0	1	4	3	27	64
13:15	30	3	1	5	2	29	70
13:30	29	0	2	3	2	24	60
13:45	34	1	1	2	1	36	75
Total	122	4	5	14	8	116	269
14:00	33	3	0	5	2	24	67
14:15	41	3	5	3	2	33	87
14:30	45	1	4	3	4	33	90
14:45	35	1	2	3	5	23	69
Total	154	8	11	14	13	113	313
Grand Total	396	23	24	38	28	335	844
Apprch %	94.5	5.5	38.7	61.3	7.7	92.3	
Total %	46.9	2.7	2.8	4.5	3.3	39.7	
Passenger Vehicles	396	23	24	37	28	330	838
% Passenger Vehicles	100	100	100	97.4	100	98.5	99.3
Trucks, Buses	0	0	0	1	0	3	4
% Trucks, Buses	0	0	0	2.6	0	0.9	0.5
Tractor Trailers	0	0	0	0	0	2	2
% Tractor Trailers	0	0	0	0	0	0.6	0.2



Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

Location: Emmitsburg Road / Ridge Road

Municipality: Cumberland Township

Day: Saturday

Counter: Chris

File Name : 38801S8

Site Code : 03880101

Start Date : 5/22/2010

Page No : 1

Groups Printed- Trucks, Buses - Tractor Trailers

Start Time	Emmitsburg Road (S.R.3001) Southbound		Ridge Road Westbound	Emmitsburg Road (S.R.3001) Northbound			Int. Total
	Thru	Left	Right	Left	Right	Thru	
12:00	0	0	0	0	0	1	1
Total	0	0	0	0	0	1	1
13:15	0	0	0	0	0	2	2
13:30	0	0	0	0	0	1	1
Total	0	0	0	0	0	3	3
14:00	0	0	0	0	0	1	1
14:15	0	0	0	1	0	0	1
Total	0	0	0	1	0	1	2
Grand Total	0	0	0	1	0	5	6
Apprch %	0	0	0	100	0	100	
Total %	0	0	0	16.7	0	83.3	
Trucks, Buses	0	0	0	1	0	3	4
% Trucks, Buses	0	0	0	100	0	60	66.7
Tractor Trailers	0	0	0	0	0	2	2
% Tractor Trailers	0	0	0	0	0	40	33.3



Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

Location: Emmitsburg Road / Ridge Road

Municipality: Cumberland Township

Day: Saturday

Counter: Chris

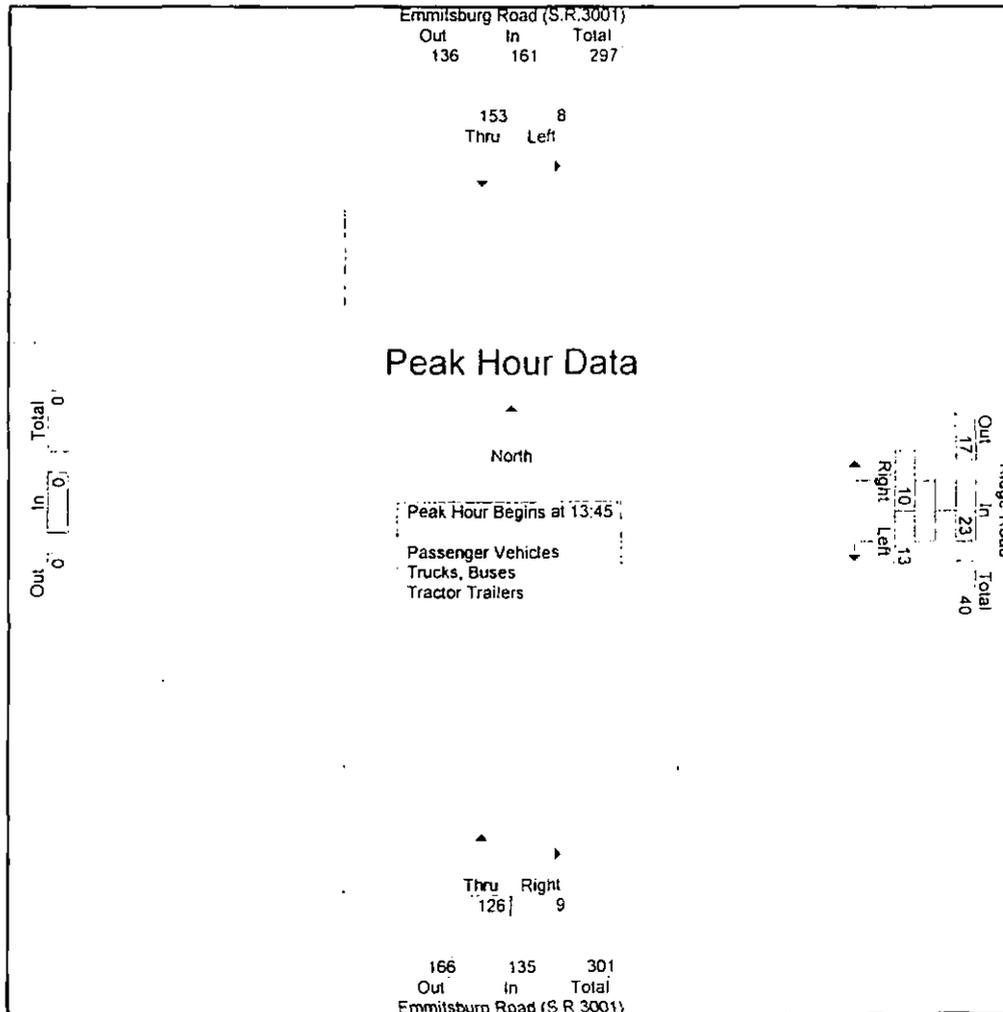
File Name : 38801S8

Site Code : 03880101

Start Date : 5/22/2010

Page No : 2

Start Time	Emmitsburg Road (S.R.3001) Southbound			Right	Ridge Road Westbound		Emmitsburg Road (S.R.3001) Northbound			Eastbound App. Total	Int. Total
	Thru	Left	App. Total		Left	App. Total	Right	Thru	App. Total		
Peak Hour Analysis From 12:00 to 14:45 - Peak 1 of 1											
Peak Hour for Entire Intersection Begins at 13:45											
13:45	34	1	35	1	2	3	1	36	37	0	75
14:00	33	3	36	0	5	5	2	24	26	0	67
14:15	41	3	44	5	3	8	2	33	35	0	87
14:30	45	1	46	4	3	7	4	33	37	0	90
Total Volume	153	8	161	10	13	23	9	126	135	0	319
% App. Total	95	5	43.5	56.5	6.7	93.3					
PHF	.850	.667	.875	.500	.650	.719	.563	.875	.912	.000	.886



PEDESTRIAN COUNT RECAP SHEET

Location: Emmitsburg Rd (S.R.3001) / Ridge Road

Day/Date: Saturday / May 22, 2010

County: Adams

Observer: Chris

Municipality: Cumberland Township

File Name: 38801S8ped

TIME PERIOD	Emmitsburg Road (S.R.3001)			Ridge Road			Total All Directions
	NORTH CROSSWALK	SOUTH CROSSWALK	Total NB / SB	EAST CROSSWALK	WEST CROSSWALK	Total EB / WB	
12:00 PM - 12:15 PM	0	0	0	0	0	0	0
12:15 PM - 12:30 PM	0	0	0	0	0	0	0
12:30 PM - 12:45 PM	0	0	0	0	0	0	0
12:45 PM - 1:00 PM	0	0	0	0	0	0	0
1:00 PM - 1:15 PM	0	0	0	0	0	0	0
1:15 PM - 1:30 PM	0	0	0	0	0	0	0
1:30 PM - 1:45 PM	0	0	0	0	0	0	0
1:45 PM - 2:00 PM	0	0	0	0	0	0	0
2:00 PM - 2:15 PM	0	0	0	0	0	0	0
2:15 PM - 2:30 PM	0	0	0	0	0	0	0
2:30 PM - 2:45 PM	0	0	0	0	0	0	0
2:45 PM - 3:00 PM	0	0	0	0	0	0	0
TOTAL PEDS	0	0	0	0	0	0	0

	PM PEAK HOUR (12:00 PM to 3:00 PM)
Peak Pedestrian Hour	- NA -
Peak North Crosswalk Total	0
Peak South Crosswalk Total	0
Peak East Crosswalk Total	0
Peak West Crosswalk Total	0
Peak Hour Total	0



Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

Location: Taneytown Rd / Knight Rd
 Municipality: Cumberland Twp
 Day: Thursday
 Counter: Ericka

File Name : 38801T9
 Site Code : 388019
 Start Date : 6/3/2010
 Page No : 1

Groups Printed- Passenger Vehicles - Trucks, Buses - Tractor Trailers

Start Time	Taneytown Road (S.R.0134)		Taneytown Road (S.R.0134)		Knight Road		Int.	Total
	Southbound	Thru	Northbound	Left	Eastbound	Left		
15:00	2	25	17	7	8	3		62
15:15	0	26	24	12	9	2		73
15:30	4	21	14	9	10	1		59
15:45	3	22	27	9	13	5		79
Total	9	94	82	37	40	11		273
16:00	4	23	20	8	12	0		67
16:15	5	23	28	5	7	3		71
16:30	3	26	25	14	7	1		76
16:45	4	28	30	10	11	0		83
Total	16	100	103	37	37	4		297
17:00	2	31	37	12	13	1		96
17:15	4	19	27	15	8	5		78
17:30	2	27	30	9	6	2		76
17:45	3	17	17	10	9	1		57
Total	11	94	111	46	36	9		307
Grand Total	36	288	296	120	113	24		877
Appreh %	11.1	88.9	71.2	28.8	82.5	17.5		
Total %	4.1	32.8	33.8	13.7	12.9	2.7		
Passenger Vehicles	35	280	288	113	105	24		845
% Passenger Vehicles	97.2	97.2	97.3	94.2	92.9	100		96.4
Trucks, Buses	1	7	7	7	8	0		30
% Trucks, Buses	2.8	2.4	2.4	5.8	7.1	0		3.4
Tractor Trailers	0	1	1	0	0	0		2
% Tractor Trailers	0	0.3	0.3	0	0	0		0.2



Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

Location: Taneytown Rd / Knight Rd

Municipality: Cumberland Twp

Day: Thursday

Counter: Ericka

File Name : 38801T9

Site Code : 388019

Start Date : 6/3/2010

Page No : 1

Groups Printed- Trucks, Buses - Tractor Trailers

Start Time	Taneytown Road (S.R.0134)		Taneytown Road (S.R.0134)		Knight Road Eastbound		Int. Total
	Southbound Right	Thru	Thru	Left	Right	Left	
15:00	0	0	1	0	1	0	2
15:15	0	0	3	2	1	0	6
15:30	0	0	0	2	2	0	4
15:45	0	2	0	0	0	0	2
Total	0	2	4	4	4	0	14
16:00	0	0	2	0	0	0	2
16:15	0	0	0	0	2	0	2
16:30	0	1	1	0	0	0	2
16:45	0	1	1	0	1	0	3
Total	0	2	4	0	3	0	9
17:00	1	0	0	1	0	0	2
17:15	0	0	0	1	0	0	1
17:30	0	4	0	1	0	0	5
17:45	0	0	0	0	1	0	1
Total	1	4	0	3	1	0	9
Grand Total	1	8	8	7	8	0	32
Approch %	11.1	88.9	53.3	46.7	100	0	
Total %	3.1	25	25	21.9	25	0	
Trucks, Buses	1	7	7	7	8	0	30
% Trucks, Buses	100	87.5	87.5	100	100	0	93.8
Tractor Trailers	0	1	1	0	0	0	2
% Tractor Trailers	0	12.5	12.5	0	0	0	6.2



Transportation Resource Group, Inc.

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York, PA 17401

(717) 846-4660

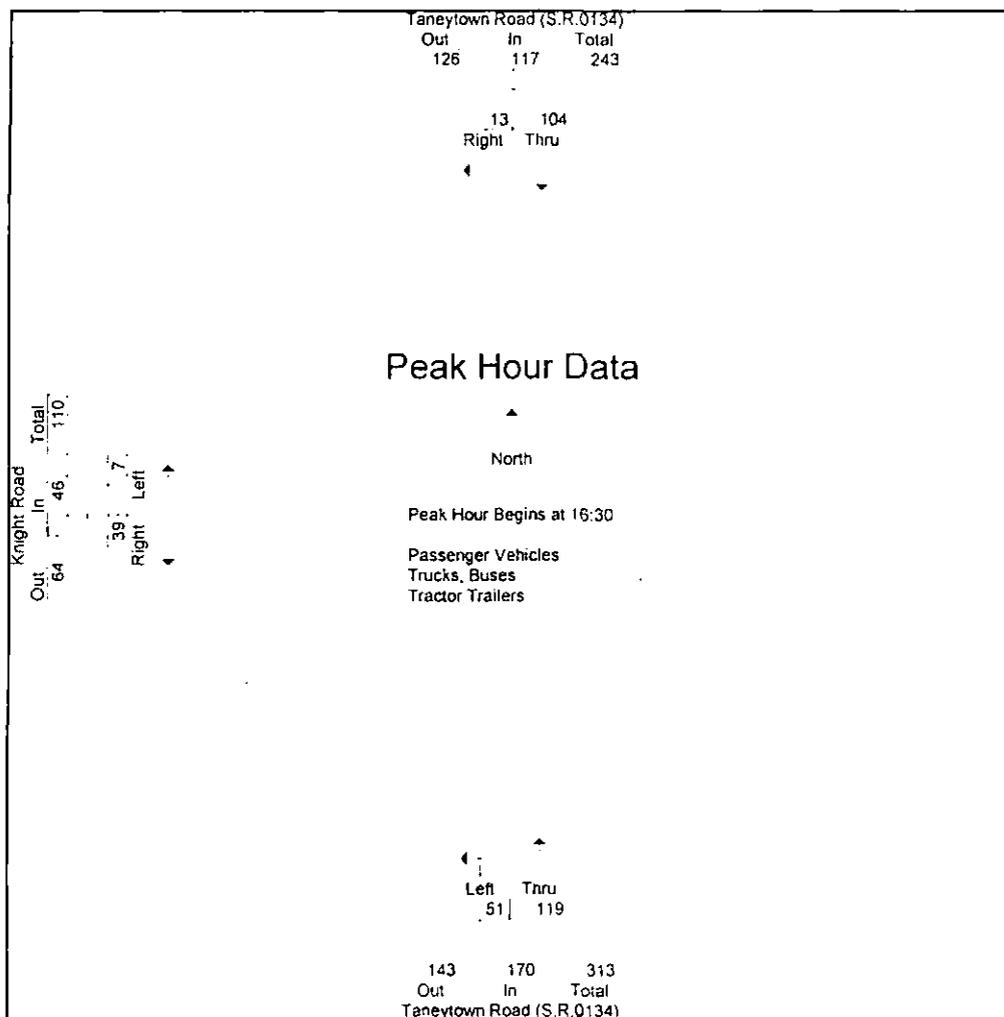
File Name : 38801T9

Site Code : 388019

Start Date : 6/3/2010

Page No : 2

Start Time	Taneytown Road (S.R.0134) Southbound			Taneytown Road (S.R.0134) Northbound			Knight Road Eastbound		Int. Total	
	Right	Thru	App. Total	Thru	Left	App. Total	Right	Left		App. Total
Peak Hour Analysis From 15:00 to 17:45 - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 16:30										
16:30	3	26	29	25	14	39	7	1	8	76
16:45	4	28	32	30	10	40	11	0	11	83
17:00	2	31	33	37	12	49	13	1	14	96
17:15	4	19	23	27	15	42	8	5	13	78
Total Volume	13	104	117	119	51	170	39	7	46	333
% App. Total	11.1	88.9		70	30		84.8	15.2		
PHF	.813	.839	.886	.804	.850	.867	.750	.350	.821	.867





Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

Location: Taneytown Rd / Knight Rd

Municipality: Cumberland Twp.

Day: Friday

Counter: Brian

File Name : 38801F9

Site Code : 00388019

Start Date : 6/4/2010

Page No : 1

Groups Printed: Trucks, Buses - Tractor Trailers

Start Time	Taneytown Road (S.R.0134)		Taneytown Road (S.R.0134)		Knight Road		Int. Total
	Southbound	Thru	Northbound	Left	Eastbound	Left	
16:30	0	0	2	1	0	0	3
16:45	0	0	0	1	0	0	1
Total	0	0	2	2	0	0	4
17:00	0	0	0	1	0	0	1
17:15	0	0	0	0	1	1	2
17:30	0	0	0	1	0	0	1
Total	0	0	0	2	1	1	4
18:15	0	0	1	0	0	0	1
Total	0	0	1	0	0	0	1
Grand Total	0	0	3	4	1	1	9
Appreh %	0	0	42.9	57.1	50	50	
Total %	0	0	33.3	44.4	11.1	11.1	
Trucks, Buses	0	0	3	4	1	1	9
% Trucks, Buses	0	0	100	100	100	100	100
Tractor Trailers	0	0	0	0	0	0	0
% Tractor Trailers	0	0	0	0	0	0	0



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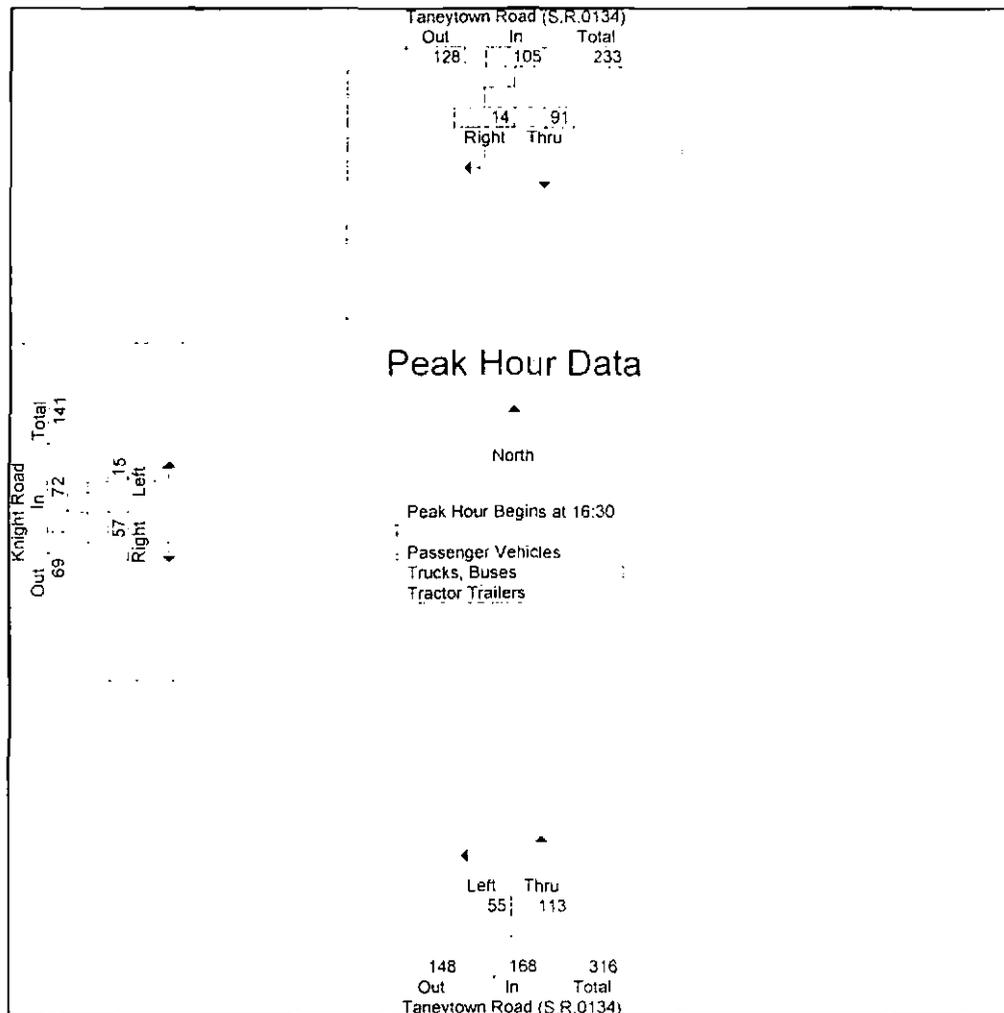
File Name : 38801F9

Site Code : 00388019

Start Date : 6/4/2010

Page No : 2

Start Time	Taneytown Road (S.R.0134) Southbound			Taneytown Road (S.R.0134) Northbound			Knight Road Eastbound			Int. Total
	Right	Thru	App. Total	Thru	Left	App. Total	Right	Left	App. Total	
Peak Hour Analysis From 16:00 to 18:45 - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 16:30										
16:30	3	18	21	31	16	47	19	6	25	93
16:45	2	24	26	27	9	36	16	3	19	81
17:00	5	22	27	25	20	45	12	3	15	87
17:15	4	27	31	30	10	40	10	3	13	84
Total Volume	14	91	105	113	55	168	57	15	72	345
% App. Total	13.3	86.7		67.3	32.7		79.2	20.8		
PHF	.700	.843	.847	.911	.688	.894	.750	.625	.720	.927





Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

Location: Taneytown Rd / Knight Rd
 Municipality: Cumberland Twp.
 Day: Saturday
 Counter: Trey

File Name : 38801S9
 Site Code : 00388019
 Start Date : 6/5/2010
 Page No : 1

Start Time	Taneytown Road (S.R.0134)		Taneytown Road (S.R.0134)		Knight Road		Int. Total
	Southbound	Thru	Thru	Left	Eastbound	Left	
12:00	8	16	26	12	8	5	75
12:15	2	21	24	8	8	0	63
12:30	3	24	21	8	6	2	64
12:45	4	25	35	7	10	4	85
Total	17	86	106	35	32	11	287
13:00	4	17	13	21	8	4	67
13:15	8	25	31	10	9	4	87
13:30	2	13	24	7	9	2	57
13:45	6	24	24	8	3	2	67
Total	20	79	92	46	29	12	278
14:00	3	27	18	15	6	4	73
14:15	5	27	26	12	7	3	80
14:30	2	23	20	11	9	2	67
14:45	2	30	17	11	10	2	72
Total	12	107	81	49	32	11	292
Grand Total	49	272	279	130	93	34	857
Apprch %	15.3	84.7	68.2	31.8	73.2	26.8	
Total %	5.7	31.7	32.6	15.2	10.9	4	
Passenger Vehicles	49	272	279	130	93	34	857
% Passenger Vehicles	100	100	100	100	100	100	100
Trucks, Buses	0	0	0	0	0	0	0
% Trucks, Buses	0	0	0	0	0	0	0
Tractor Trailers	0	0	0	0	0	0	0
% Tractor Trailers	0	0	0	0	0	0	0



Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

Location: Taneytown Rd / Knight Rd

Municipality: Cumberland Twp.

Day: Saturday

Counter: Trey

File Name : 38801S9

Site Code : 00388019

Start Date : 6/5/2010

Page No : 1

Groups Printed- Trucks, Buses - Tractor Trailers

Start Time	Taneytown Road (S.R.0134)		Taneytown Road (S.R.0134)		Knight Road		Int. Total
	Southbound	Thru	Northbound	Left	Eastbound	Left	
Grand Total	0	0	0	0	0	0	0
Apprch %	0	0	0	0	0	0	0
Total %							0
Trucks, Buses							0
% Trucks, Buses	0	0	0	0	0	0	0
Tractor Trailers							0
% Tractor Trailers	0	0	0	0	0	0	0



Transportation Resource Group, Inc.

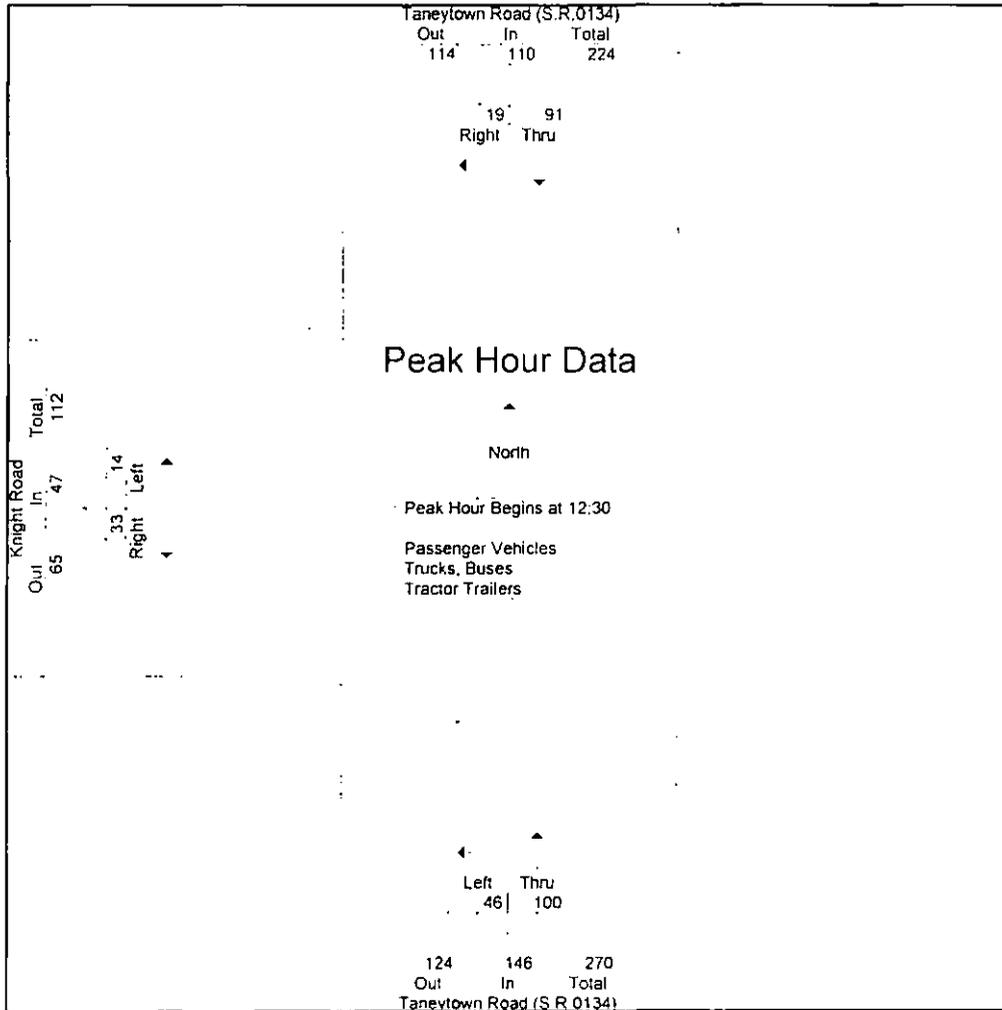
204 North George Street Suite 110

York, PA 17401

(717) 846-4660

File Name : 38801S9
 Site Code : 00388019
 Start Date : 6/5/2010
 Page No : 2

Start Time	Taneytown Road (S.R.0134) Southbound			Taneytown Road (S.R.0134) Northbound			Knight Road Eastbound			Int. Total
	Right	Thru	App. Total	Thru	Left	App. Total	Right	Left	App. Total	
Peak Hour Analysis From 12:00 to 14:45 - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 12:30										
12:30	3	24	27	21	8	29	6	2	8	64
12:45	4	25	29	35	7	42	10	4	14	85
13:00	4	17	21	13	21	34	8	4	12	67
13:15	8	25	33	31	10	41	9	4	13	87
Total Volume	19	91	110	100	46	146	33	14	47	303
% App. Total	17.3	82.7		68.5	31.5		70.2	29.8		
PHF	.594	.910	.833	.714	.548	.869	.825	.875	.839	.871





Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

Location: Tancytwon Rd / US 15 SB ramps
 Municipality: Cumberland Twp
 Day: Thursday
 Counter: Joe

File Name : 38801T11
 Site Code : 03880111
 Start Date : 6/3/2010
 Page No : 1

Groups Printed- Passenger Vehicles - Trucks, Buses - Tractor Trailers

Start Time	Tancytwon Road (S.R.0134) Southbound		U.S. 15 SB off ramp Westbound		Tancytwon Road (S.R.0134) Northbound			Int. Total
	Right	Thru	Right	Thru	Left	Thru	Left	
15:00	8	25	6	0	9	17	3	68
15:15	10	25	11	0	23	25	0	94
15:30	6	24	11	2	12	12	2	69
15:45	6	29	7	0	12	30	0	84
Total	30	103	35	2	56	84	5	315
16:00	6	29	13	0	14	16	2	80
16:15	4	26	6	0	15	26	1	78
16:30	9	22	14	0	21	25	1	92
16:45	6	33	11	0	14	29	3	96
Total	25	110	44	0	64	96	7	346
17:00	10	33	14	1	20	37	3	118
17:15	3	25	16	0	26	25	3	98
17:30	7	26	7	0	18	33	3	94
17:45	3	24	8	0	17	20	1	73
Total	23	108	45	1	81	115	10	383
Grand Total	78	321	124	3	201	295	22	1044
Apprch %	19.5	80.5	37.8	0.9	61.3	93.1	6.9	
Total %	7.5	30.7	11.9	0.3	19.3	28.3	2.1	
Passenger Vehicles	70	305	113	2	192	287	19	988
% Passenger Vehicles	89.7	95	91.1	66.7	95.5	97.3	86.4	94.6
Trucks, Buses	7	16	10	0	7	8	3	51
% Trucks, Buses	9	5	8.1	0	3.5	2.7	13.6	4.9
Tractor Trailers	1	0	1	1	2	0	0	5
% Tractor Trailers	1.3	0	0.8	33.3	1	0	0	0.5



Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

Location: Taneytown Rd / US 15 SB ramps

Municipality: Cumberland Twp

Day: Thursday

Counter: Joe

File Name : 38801T11

Site Code : 03880111

Start Date : 6/3/2010

Page No : 1

Groups Printed- Trucks, Buses - Tractor Trailers

Start Time	Taneytown Road (S.R.0134) Southbound		U.S. 15 SB off ramp Westbound			Taneytown Road (S.R.0134) Northbound		Int. Total
	Right	Thru	Right	Thru	Left	Thru	Left	
15:00	1	0	0	0	0	1	0	2
15:15	0	2	3	0	5	2	0	12
15:30	0	2	2	0	1	0	0	5
15:45	1	2	0	0	1	0	0	4
Total	2	6	5	0	7	3	0	23
16:00	0	0	1	0	1	1	0	3
16:15	0	3	0	0	0	0	0	3
16:30	0	2	1	0	1	1	0	5
16:45	0	2	1	0	0	0	2	5
Total	0	7	3	0	2	2	2	16
17:00	2	1	1	1	0	1	0	6
17:15	0	0	1	0	0	0	0	1
17:30	4	0	1	0	0	1	0	6
17:45	0	2	0	0	0	1	1	4
Total	6	3	3	1	0	3	1	17
Grand Total	8	16	11	1	9	8	3	56
Apprch %	33.3	66.7	52.4	4.8	42.9	72.7	27.3	
Total %	14.3	28.6	19.6	1.8	16.1	14.3	5.4	
Trucks, Buses	7	16	10	0	7	8	3	51
% Trucks, Buses	87.5	100	90.9	0	77.8	100	100	91.1
Tractor Trailers	1	0	1	1	2	0	0	5
% Tractor Trailers	12.5	0	9.1	100	22.2	0	0	8.9



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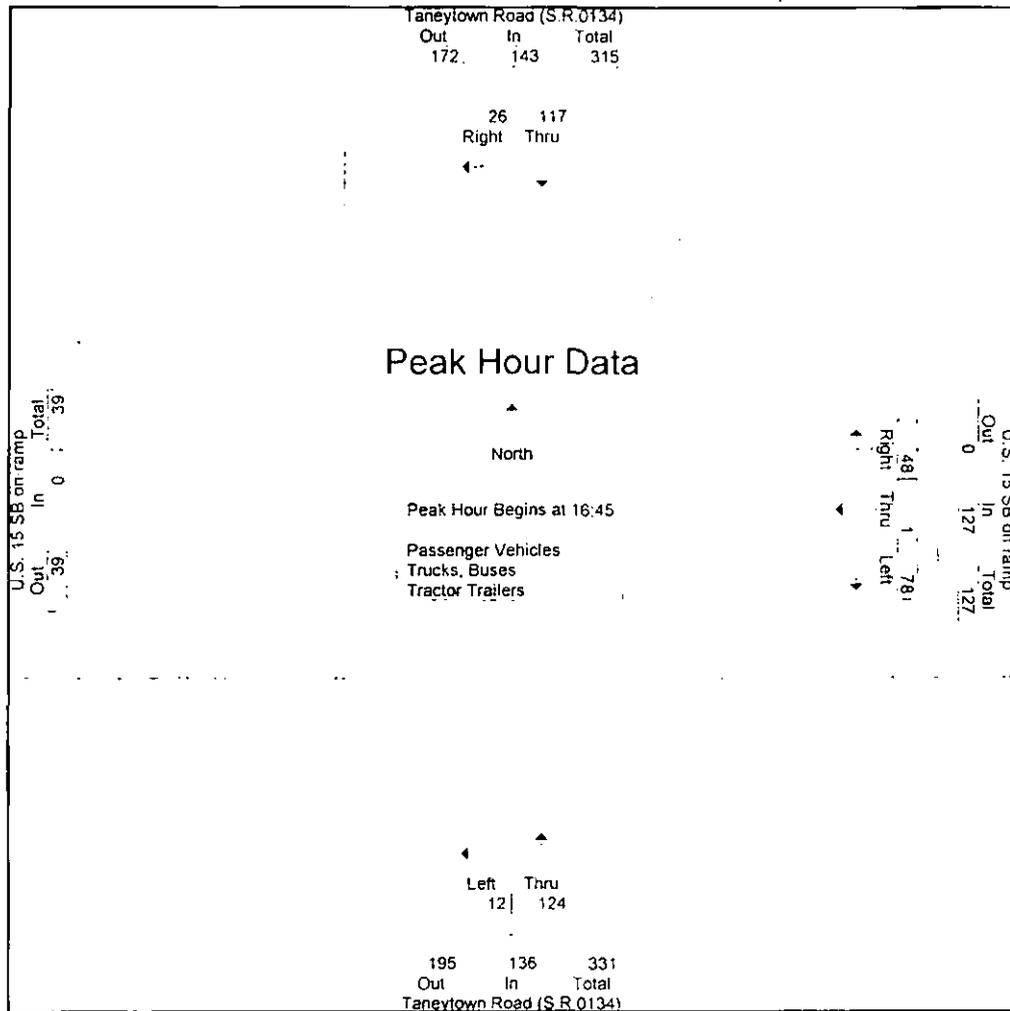
File Name : 38801T11

Site Code : 03880111

Start Date : 6/3/2010

Page No : 2

Start Time	Taneytown Road (S.R.0134) Southbound			U.S. 15 SB off ramp Westbound				Taneytown Road (S.R.0134) Northbound				Eastbound	Int. Total
	Right	Thru	App. Total	Right	Thru	Left	App. Total	Thru	Left	App. Total	App. Total		
Peak Hour Analysis From 15:00 to 17:45 - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 16:45													
16:45	6	33	39	11	0	14	25	29	3	32	0	96	
17:00	10	33	43	14	1	20	35	37	3	40	0	118	
17:15	3	25	28	16	0	26	42	25	3	28	0	98	
17:30	7	26	33	7	0	18	25	33	3	36	0	94	
Total Volume	26	117	143	48	1	78	127	124	12	136	0	406	
% App. Total	18.2	81.8		37.8	0.8	61.4		91.2	8.8				
PHF	.650	.886	.831	.750	.250	.750	.756	.838	1.000	.850	.000	.860	





Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

Location: Taneytown Rd / U.S. 15 SB ramp

Municipality: Cumberland Twp.

Day: Friday

Counter: Jane

File Name: 38801F11

Site Code : 3880111

Start Date : 6/4/2010

Page No : 1

Groups Printed- Passenger Vehicles - Trucks, Buses - Tractor Trailers

Start Time	Taneytown Road (S.R.0134)		U.S. 15 SB off ramp		Taneytown Road (S.R.0134)			Int. Total
	Southbound		Westbound		Left	Thru	Left	
	Right	Thru	Right	Thru				
16:00	6	24	17	0	21	34	0	102
16:15	5	20	10	1	23	27	4	90
16:30	6	31	14	0	15	32	6	104
16:45	6	34	10	0	15	27	4	96
Total	23	109	51	1	74	120	14	392
17:00	8	26	20	0	20	25	2	101
17:15	7	29	10	0	23	30	1	100
17:30	7	30	5	0	20	31	4	97
17:45	3	17	14	0	11	26	2	73
Total	25	102	49	0	74	112	9	371
18:00	5	28	11	0	13	22	1	80
18:15	5	17	12	0	17	17	0	68
18:30	4	15	10	0	22	21	3	75
18:45	6	17	15	0	17	17	2	74
Total	20	77	48	0	69	77	6	297
Grand Total	68	288	148	1	217	309	29	1060
Apprch %	19.1	80.9	40.4	0.3	59.3	91.4	8.6	
Total %	6.4	27.2	14	0.1	20.5	29.2	2.7	
Passenger Vehicles	67	283	139	1	206	304	26	1026
% Passenger Vehicles	98.5	98.3	93.9	100	94.9	98.4	89.7	96.8
Trucks, Buses	1	5	9	0	8	5	3	31
% Trucks, Buses	1.5	1.7	6.1	0	3.7	1.6	10.3	2.9
Tractor Trailers	0	0	0	0	3	0	0	3
% Tractor Trailers	0	0	0	0	1.4	0	0	0.3



Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

Location: Taneytown Rd / U.S.15 SB ramp

Municipality: Cumberland Twp.

Day: Friday

Counter: Jane

File Name : 38801F11

Site Code : 3880111

Start Date : 6/4/2010

Page No : 1

Groups Printed- Trucks, Buses - Tractor Trailers

Start Time	Taneytown Road (S.R.0134) Southbound		U.S. 15 SB off ramp Westbound		Taneytown Road (S.R.0134) Northbound			Int. Total
	Right	Thru	Right	Thru	Left	Thru	Left	
16:00	0	0	0	0	0	1	0	1
16:15	0	0	0	0	0	2	0	2
16:30	0	0	3	0	0	0	0	3
16:45	0	1	1	0	1	0	0	3
Total	0	1	4	0	1	3	0	9
17:00	0	0	2	0	5	0	0	7
17:15	0	2	0	0	1	0	0	3
17:30	0	0	0	0	0	1	2	3
17:45	0	0	0	0	0	0	1	1
Total	0	2	2	0	6	1	3	14
18:15	0	0	1	0	1	0	0	2
18:30	1	2	1	0	2	0	0	6
18:45	0	0	1	0	1	1	0	3
Total	1	2	3	0	4	1	0	11
Grand Total	1	5	9	0	11	5	3	34
Approch %	16.7	83.3	45	0	55	62.5	37.5	
Total %	2.9	14.7	26.5	0	32.4	14.7	8.8	
Trucks, Buses	1	5	9	0	8	5	3	31
% Trucks, Buses	100	100	100	0	72.7	100	100	91.2
Tractor Trailers	0	0	0	0	3	0	0	3
% Tractor Trailers	0	0	0	0	27.3	0	0	8.8



Transportation Resource Group, Inc.

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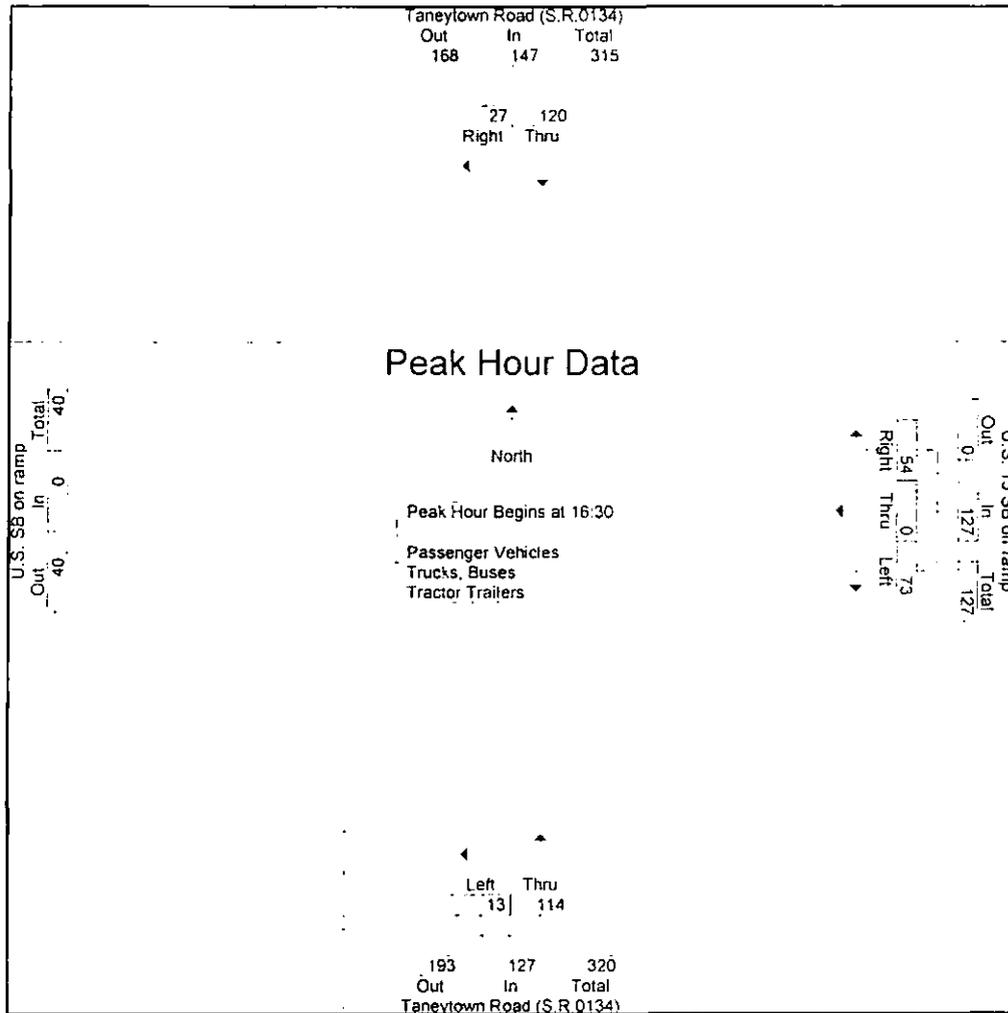
File Name : 38801F11

Site Code : 3880111

Start Date : 6/4/2010

Page No : 2

Start Time	Taneytown Road (S.R.0134) Southbound				U.S. 15 SB off ramp Westbound				Taneytown Road (S.R.0134) Northbound			Eastbound	Int. Total
	Right	Thru	App.	Total	Right	Thru	Left	App. Total	Thru	Left	App. Total	App. Total	
Peak Hour Analysis From 16:00 to 18:45 - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 16:30													
16:30	6	31		37	14	0	15	29	32	6	38	0	104
16:45	6	34		40	10	0	15	25	27	4	31	0	96
17:00	8	26		34	20	0	20	40	25	2	27	0	101
17:15	7	29		36	10	0	23	33	30	1	31	0	100
Total Volume	27	120		147	54	0	73	127	114	13	127	0	401
% App. Total	18.4	81.6			42.5	0	57.5		89.8	10.2			
PHF	.844	.882		.919	.675	.000	.793	.794	.891	.542	.836	.000	.964





Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

Location: Taneytown Rd / U.S. 15 SB ramp

Municipality: Cumberland Twp.

Day: Saturday

Counter: Steve

File Name : 38801S11

Site Code : 03880111

Start Date : 6/5/2010

Page No : 1

Groups Printed- Passenger Vehicles - Trucks, Buses - Tractor Trailers

Start Time	Taneytown Road (S.R.0134) Southbound		U.S. 15 SB off ramp Westbound		Taneytown Road (S.R.0134) Northbound			Int. Total
	Right	Thru	Right	Thru	Left	Thru	Left	
12:00	3	20	13	0	17	25	1	79
12:15	3	25	10	0	18	20	2	78
12:30	6	25	13	0	19	19	2	84
12:45	14	21	9	0	30	32	3	109
Total	26	91	45	0	84	96	8	350
13:00	4	22	18	1	27	18	11	101
13:15	9	24	12	0	17	30	2	94
13:30	2	21	11	0	13	20	3	70
13:45	10	17	11	0	19	21	3	81
Total	25	84	52	1	76	89	19	346
14:00	16	18	15	0	17	18	0	84
14:15	7	24	17	0	14	22	2	86
14:30	6	26	16	0	25	16	3	92
14:45	9	32	10	0	25	18	1	95
Total	38	100	58	0	81	74	6	357
Grand Total	89	275	155	1	241	259	33	1053
Apprch %	24.5	75.5	39	0.3	60.7	88.7	11.3	
Total %	8.5	26.1	14.7	0.1	22.9	24.6	3.1	
Passenger Vehicles	89	274	154	1	235	258	32	1043
% Passenger Vehicles	100	99.6	99.4	100	97.5	99.6	97	99.1
Trucks, Buses	0	1	1	0	5	1	1	9
% Trucks, Buses	0	0.4	0.6	0	2.1	0.4	3	0.9
Tractor Trailers	0	0	0	0	1	0	0	1
% Tractor Trailers	0	0	0	0	0.4	0	0	0.1



Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

Location: Taneytown Rd / U.S. 15 SB ramp

Municipality: Cumberland Twp.

Day: Saturday

Counter: Steve

File Name : 38801S11

Site Code : 03880111

Start Date : 6/5/2010

Page No : 1

Groups Printed- Trucks, Buses - Tractor Trailers

Start Time	Taneytown Road (S.R.0134) Southbound		U.S. 15 SB off ramp Westbound		Taneytown Road (S.R.0134) Northbound			Int. Total
	Right	Thru	Right	Thru	Left	Thru	Left	
12:15	0	0	0	0	2	0	0	2
12:45	0	0	0	0	2	0	0	2
Total	0	0	0	0	4	0	0	4
13:00	0	0	0	0	0	0	1	1
13:15	0	0	0	0	1	0	0	1
13:45	0	1	0	0	0	0	0	1
Total	0	1	0	0	1	0	1	3
14:00	0	0	1	0	0	0	0	1
14:15	0	0	0	0	0	1	0	1
14:30	0	0	0	0	1	0	0	1
Total	0	0	1	0	1	1	0	3
Grand Total	0	1	1	0	6	1	1	10
Apprch %	0	100	14.3	0	85.7	50	50	
Total %	0	10	10	0	60	10	10	
Trucks, Buses	0	1	1	0	5	1	1	9
% Trucks, Buses	0	100	100	0	83.3	100	100	90
Tractor Trailers	0	0	0	0	1	0	0	1
% Tractor Trailers	0	0	0	0	16.7	0	0	10



Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

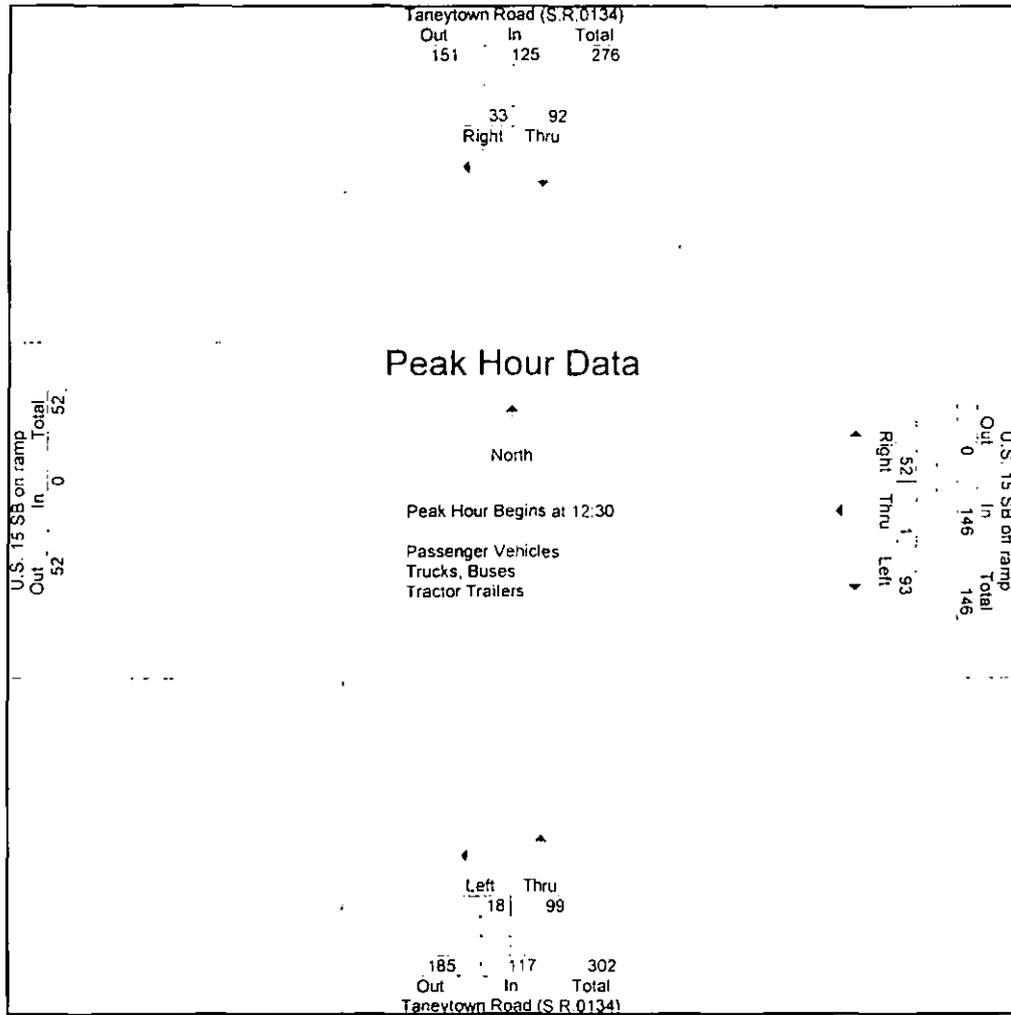
File Name : 38801S11

Site Code : 03880111

Start Date : 6/5/2010

Page No : 2

Start Time	Taneytown Road (S.R.0134) Southbound			U.S. 15 SB off ramp Westbound			Taneytown Road (S.R.0134) Northbound			Eastbound	Int. Total	
	Right	Thru	App. Total	Right	Thru	Left	App. Total	Thru	Left	App. Total		App. Total
Peak Hour Analysis From 12:00 to 14:45 - Peak 1 of 1												
Peak Hour for Entire Intersection Begins at 12:30												
12:30	6	25	31	13	0	19	32	19	2	21	0	84
12:45	14	21	35	9	0	30	39	32	3	35	0	109
13:00	4	22	26	18	1	27	46	18	11	29	0	101
13:15	9	24	33	12	0	17	29	30	2	32	0	94
Total Volume	33	92	125	52	1	93	146	99	18	117	0	388
% App. Total	26.4	73.6		35.6	0.7	63.7		84.6	15.4			
PHF	.589	.920	.893	.722	.250	.775	.793	.773	.409	.836	.000	.890





Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

Location: Taneytown Rd / US 15 NB ramps
 Municipality: Cumberland Twp.
 Day: Thursday
 Counter: Steve

File Name : 38801T10
 Site Code : 03880110
 Start Date : 6/3/2010
 Page No : 1

Groups Printed- Passenger Vehicles - Trucks, Buses - Tractor Trailers

Taneytown Road (S.R.0134) Taneytown Road (S.R.0134) U.S. 15 NB off ramp

Start Time	Southbound		Northbound		Eastbound			Int. Total
	Thru	Left	Right	Thru	Right	Thru	Left	
15:00	21	12	18	11	1	0	7	70
15:15	37	11	17	18	4	3	8	98
15:30	26	11	19	12	0	0	2	70
15:45	31	11	21	18	2	2	11	96
Total	115	45	75	59	7	5	28	334
16:00	29	12	13	10	4	0	8	76
16:15	32	10	23	20	1	0	7	93
16:30	30	12	9	15	3	0	11	80
16:45	33	14	19	27	2	1	7	103
Total	124	48	64	72	10	1	33	352
17:00	34	16	23	27	2	0	13	115
17:15	36	12	26	21	1	2	10	108
17:30	33	11	15	23	2	0	10	94
17:45	30	12	32	12	5	1	9	101
Total	133	51	96	83	10	3	42	418
Grand Total	372	144	235	214	27	9	103	1104
Apprch %	72.1	27.9	52.3	47.7	19.4	6.5	74.1	
Total %	33.7	13	21.3	19.4	2.4	0.8	9.3	
Passenger Vehicles	360	144	229	210	25	9	103	1080
% Passenger Vehicles	96.8	100	97.4	98.1	92.6	100	100	97.8
Trucks, Buses	10	0	3	4	1	0	0	18
% Trucks, Buses	2.7	0	1.3	1.9	3.7	0	0	1.6
Tractor Trailers	2	0	3	0	1	0	0	6
% Tractor Trailers	0.5	0	1.3	0	3.7	0	0	0.5



Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

Location: Taneytown Rd / US 15 NB ramps

Municipality: Cumberland Twp.

Day: Thursday

Counter: Steve

File Name : 38801T10

Site Code : 03880110

Start Date : 6/3/2010

Page No : 1

Groups Printed- Trucks, Buses - Tractor Trailers

Start Time	Taneytown Road (S.R.0134) Southbound		Taneytown Road (S.R.0134) Northbound		U.S. 15 NB off ramp Eastbound		Int. Total
	Thru	Left	Right	Thru	Right	Thru	
15:00	0	0	0	1	0	0	1
15:15	5	0	1	1	1	0	8
15:30	2	0	0	0	0	0	2
15:45	2	0	0	0	0	0	2
Total	9	0	1	2	1	0	13
16:00	0	0	0	1	0	0	1
16:15	2	0	0	0	0	0	2
16:30	1	0	1	0	0	0	2
16:45	0	0	0	1	0	0	1
Total	3	0	1	2	0	0	6
17:00	0	0	1	0	0	0	1
17:15	0	0	2	0	0	0	2
17:30	0	0	0	0	1	0	1
17:45	0	0	1	0	0	0	1
Total	0	0	4	0	1	0	5
Grand Total	12	0	6	4	2	0	24
Apprch %	100	0	60	40	100	0	
Total %	50	0	25	16.7	8.3	0	
Trucks, Buses	10	0	3	4	1	0	18
% Trucks, Buses	83.3	0	50	100	50	0	75
Tractor Trailers	2	0	3	0	1	0	6
% Tractor Trailers	16.7	0	50	0	50	0	25



Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

Location: Taneytown Rd / US 15 NB ramps

Municipality: Cumberland Twp.

Day: Thursday

Counter: Steve

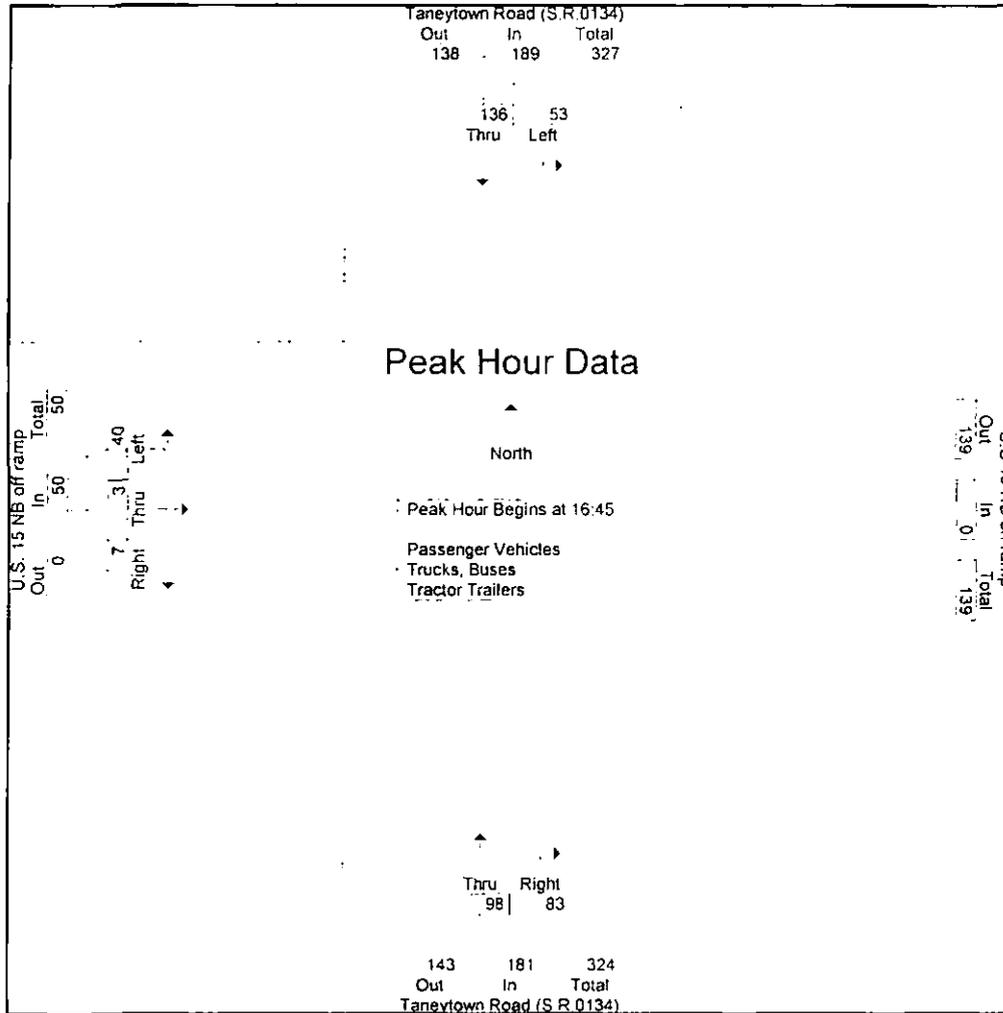
File Name : 38801T10

Site Code : 03880110

Start Date : 6/3/2010

Page No : 2

Start Time	Taneytown Road (S.R.0134) Southbound			Westbound App. Total	Taneytown Road (S.R.0134) Northbound			U.S. 15 NB off ramp Eastbound				
	Thru	Left	App. Total		Right	Thru	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 15:00 to 17:45 - Peak 1 of 1												
Peak Hour for Entire Intersection Begins at 16:45												
16:45	33	14	47	0	19	27	46	2	1	7	10	103
17:00	34	16	50	0	23	27	50	2	0	13	15	115
17:15	36	12	48	0	26	21	47	1	2	10	13	108
17:30	33	11	44	0	15	23	38	2	0	10	12	94
Total Volume	136	53	189	0	83	98	181	7	3	40	50	420
% App. Total	72	28			45.9	54.1		14	6	80		
PHF	.944	.828	.945	.000	.798	.907	.905	.875	.375	.769	.833	.913





Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

Location: Taneytown Rd / U.S. 15 NB ramp

Municipality: Cumberland Twp.

Day: Friday

Counter: Val

File Name : 38801F10

Site Code : 3880110

Start Date : 6/4/2010

Page No : 1

Groups Printed- Passenger Vehicles - Trucks, Buses - Tractor Trailers

Taneytown Road (S.R.0134) Taneytown Road (S.R.0134) U.S. 15 NB off ramp

Start Time	Southbound		Northbound		Eastbound			Int.	Total
	Thru	Left	Right	Thru	Right	Thru	Left		
16:00	28	14	13	14	5	1	18		93
16:15	35	9	14	20	3	1	10		92
16:30	25	20	21	26	3	2	15		112
16:45	34	17	14	22	4	1	7		99
Total	122	60	62	82	15	5	50		396
17:00	28	19	20	19	2	0	6		94
17:15	39	13	16	20	4	1	11		104
17:30	37	12	24	22	2	1	13		111
17:45	22	8	29	19	0	2	10		90
Total	126	52	89	80	8	4	40		399
18:00	26	14	17	15	3	0	9		84
18:15	28	8	20	9	3	1	7		76
18:30	25	8	18	13	1	1	10		76
18:45	24	10	20	11	3	2	8		78
Total	103	40	75	48	10	4	34		314
19:00	1	0	0	0	0	0	0		1
Grand Total	352	152	226	210	33	13	124		1110
Apprch %	69.8	30.2	51.8	48.2	19.4	7.6	72.9		
Total %	31.7	13.7	20.4	18.9	3	1.2	11.2		
Passenger Vehicles	346	150	220	208	32	12	124		1092
% Passenger Vehicles	98.3	98.7	97.3	99	97	92.3	100		98.4
Trucks, Buses	3	2	5	2	0	1	0		13
% Trucks, Buses	0.9	1.3	2.2	1	0	7.7	0		1.2
Tractor Trailers	3	0	1	0	1	0	0		5
% Tractor Trailers	0.9	0	0.4	0	3	0	0		0.5



Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

Location: Taneytown Rd / U.S. 15 NB ramp

Municipality: Cumberland Twp.

Day: Friday

Counter: Val

File Name : 38801F10

Site Code : 3880110

Start Date : 6/4/2010

Page No : 1

Groups Printed- Trucks, Buses - Tractor Trailers

Start Time	Taneytown Road (S.R.0134) Southbound		Taneytown Road (S.R.0134) Northbound		U.S. 15 NB off ramp Eastbound			Int. Total
	Thru	Left	Right	Thru	Right	Thru	Left	
16:00	0	0	0	1	0	0	0	1
16:15	1	0	1	0	0	0	0	2
16:30	0	0	1	0	0	0	0	1
16:45	1	0	1	0	0	1	0	3
Total	2	0	3	1	0	1	0	7
17:00	2	0	2	0	0	0	0	4
17:15	1	1	0	0	0	0	0	2
17:45	0	0	0	1	0	0	0	1
Total	3	1	2	1	0	0	0	7
18:15	0	0	1	0	1	0	0	2
18:30	1	0	0	0	0	0	0	1
18:45	0	1	0	0	0	0	0	1
Total	1	1	1	0	1	0	0	4
Grand Total	6	2	6	2	1	1	0	18
Approch %	75	25	75	25	50	50	0	
Total %	33.3	11.1	33.3	11.1	5.6	5.6	0	
Trucks, Buses	3	2	5	2	0	1	0	13
% Trucks, Buses	50	100	83.3	100	0	100	0	72.2
Tractor Trailers	3	0	1	0	1	0	0	5
% Tractor Trailers	50	0	16.7	0	100	0	0	27.8



Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

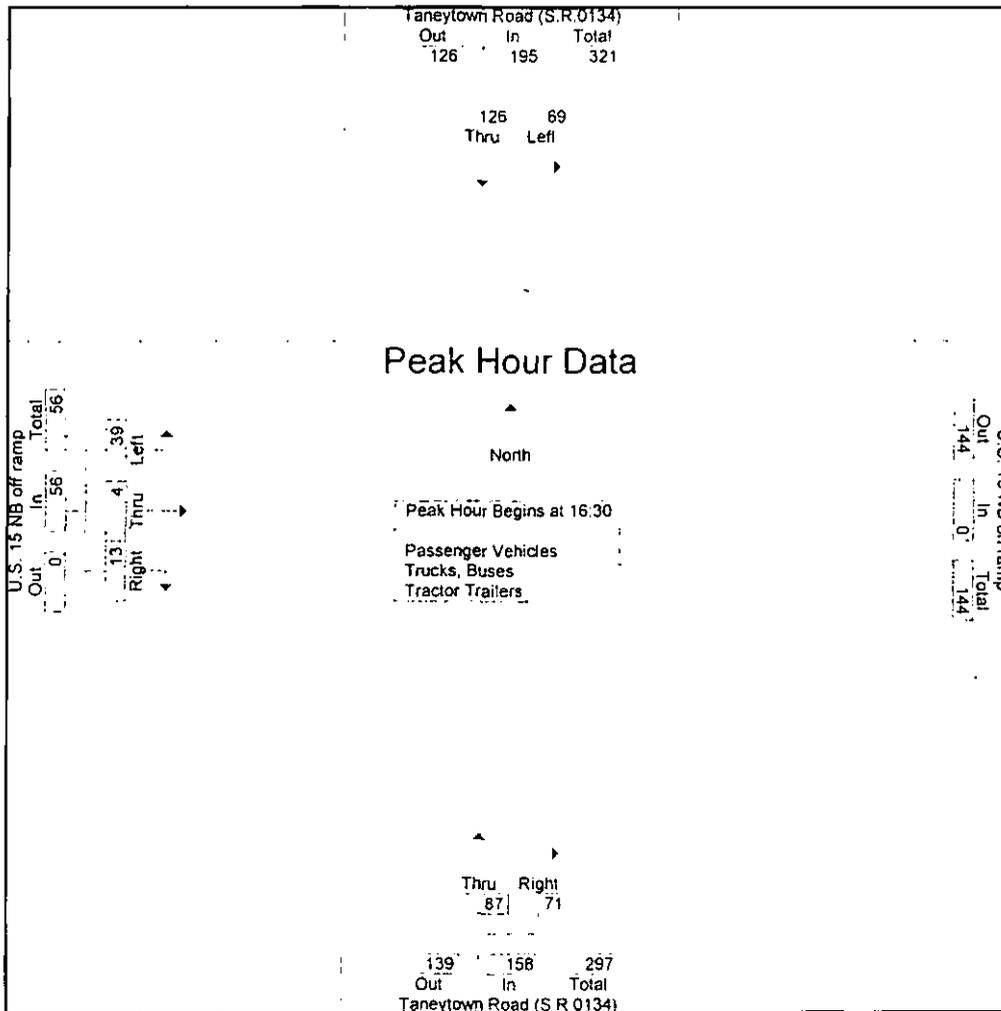
File Name : 38801F10

Site Code : 3880110

Start Date : 6/4/2010

Page No : 2

Start Time	Taneytown Road (S.R.0134) Southbound			Westbound	Taneytown Road (S.R.0134) Northbound			U.S. 15 NB off ramp Eastbound				Int. Total
	Thru	Left	App. Total		App. Total	Right	Thru	App. Total	Right	Thru	Left	
Peak Hour Analysis From 16:00 to 19:00 - Peak 1 of 1												
Peak Hour for Entire Intersection Begins at 16:30												
16:30	25	20	45	0	21	26	47	3	2	15	20	112
16:45	34	17	51	0	14	22	36	4	1	7	12	99
17:00	28	19	47	0	20	19	39	2	0	6	8	94
17:15	39	13	52	0	16	20	36	4	1	11	16	104
Total Volume	126	69	195	0	71	87	158	13	4	39	56	409
% App. Total	64.6	35.4			44.9	55.1		23.2	7.1	69.6		
PHF	.808	.863	.938	.000	.845	.837	.840	.813	.500	.650	.700	.913





Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

Location: Taneytown Rd / U.S. 15 NB ramp

Municipality: Cumberland Twp.

Day: Saturday

Counter: Val

File Name : 38801S10

Site Code : 3880110

Start Date : 6/5/2010

Page No : 1

Groups Printed- Passenger Vehicles - Trucks, Buses - Tractor Trailers
 Taneytown Road (S.R.0134) Taneytown Road (S.R.0134) U.S. 15 NB off ramp

Start Time	Southbound		Northbound		Eastbound			Int.	Total
	Thru	Left	Right	Thru	Right	Thru	Left		
12:00	24	14	16	18	2	0	9	83	
12:15	33	9	23	17	5	2	6	95	
12:30	34	9	22	9	4	1	11	90	
12:45	37	13	13	29	2	2	8	104	
Total	128	45	74	73	13	5	34	372	
13:00	40	8	14	24	5	1	11	103	
13:15	28	13	16	21	0	2	11	91	
13:30	20	13	18	12	3	2	11	79	
13:45	23	12	14	18	4	1	6	78	
Total	111	46	62	75	12	6	39	351	
14:00	27	7	9	9	0	0	9	61	
14:15	23	16	19	11	3	0	14	86	
14:30	34	12	12	13	9	1	11	92	
14:45	39	19	15	14	0	1	6	94	
Total	123	54	55	47	12	2	40	333	
Grand Total	362	145	191	195	37	13	113	1056	
Appreh %	71.4	28.6	49.5	50.5	22.7	8	69.3		
Total %	34.3	13.7	18.1	18.5	3.5	1.2	10.7		
Passenger Vehicles	354	143	185	192	35	12	113	1034	
% Passenger Vehicles	97.8	98.6	96.9	98.5	94.6	92.3	100	97.9	
Trucks, Buses	7	2	5	3	1	0	0	18	
% Trucks, Buses	1.9	1.4	2.6	1.5	2.7	0	0	1.7	
Tractor Trailers	1	0	1	0	1	1	0	4	
% Tractor Trailers	0.3	0	0.5	0	2.7	7.7	0	0.4	



Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

Location: Taneytown Rd / U.S. 15 NB ramp

Municipality: Cumberland Twp.

Day: Saturday

Counter: Val

File Name : 38801S10

Site Code : 3880110

Start Date : 6/5/2010

Page No : 1

Groups Printed- Trucks, Buses - Tractor Trailers

Start Time	Taneytown Road (S.R.0134) Southbound		Taneytown Road (S.R.0134) Northbound		U.S. 15 NB off ramp Eastbound		Left	Int. Total
	Thru	Left	Right	Thru	Right	Thru		
12:00	0	0	0	1	0	0	0	1
12:15	2	0	0	0	2	0	0	4
12:30	0	0	0	0	0	1	0	1
12:45	3	0	0	0	0	0	0	3
Total	5	0	0	1	2	1	0	9
13:00	0	0	3	1	0	0	0	4
13:15	1	0	1	0	0	0	0	2
13:30	0	1	0	0	0	0	0	1
13:45	0	1	0	0	0	0	0	1
Total	1	2	4	1	0	0	0	8
14:15	1	0	0	1	0	0	0	2
14:30	1	0	0	0	0	0	0	1
14:45	0	0	2	0	0	0	0	2
Total	2	0	2	1	0	0	0	5
Grand Total	8	2	6	3	2	1	0	22
Apprch %	80	20	66.7	33.3	66.7	33.3	0	
Total %	36.4	9.1	27.3	13.6	9.1	4.5	0	
Trucks, Buses	7	2	5	3	1	0	0	18
% Trucks, Buses	87.5	100	83.3	100	50	0	0	81.8
Tractor Trailers	1	0	1	0	1	1	0	4
% Tractor Trailers	12.5	0	16.7	0	50	100	0	18.2



Transportation Resource Group, Inc.

204 North George Street Suite 110

York, PA 17401

(717) 846-4660

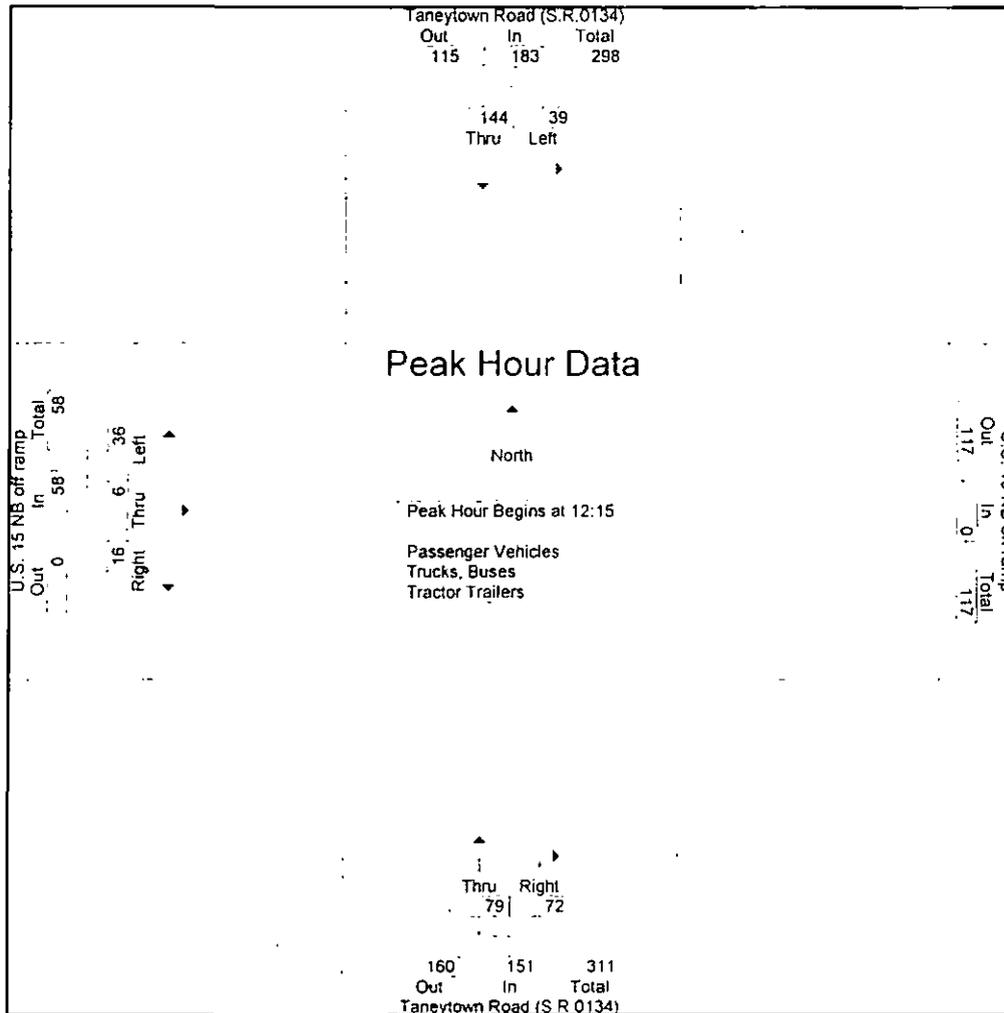
File Name : 38801S10

Site Code : 3880110

Start Date : 6/5/2010

Page No : 2

Start Time	Taneytown Road (S.R.0134) Southbound			Westbound	Taneytown Road (S.R.0134) Northbound			U.S. 15 NB off ramp Eastbound				Int. Total
	Thru	Left	App. Total	App. Total	Right	Thru	App. Total	Right	Thru	Left	App. Total	
Peak Hour Analysis From 12:00 to 14:45 - Peak 1 of 1												
Peak Hour for Entire Intersection Begins at 12:15												
12:15	33	9	42	0	23	17	40	5	2	6	13	95
12:30	34	9	43	0	22	9	31	4	1	11	16	90
12:45	37	13	50	0	13	29	42	2	2	8	12	104
13:00	40	8	48	0	14	24	38	5	1	11	17	103
Total Volume	144	39	183	0	72	79	151	16	6	36	58	392
% App. Total	78.7	21.3			47.7	52.3		27.6	10.3	62.1		
PHF	.900	.750	.915	.000	.783	.681	.899	.800	.750	.818	.853	.942



TRANSPORTATION RESOURCE GROUP, INC.

204 N. George Street Suite 110
York, PA 17401
(717) 846-4660

Location: Eisenhower / Allstar Drwy
Location: east of Emmitsburg Road
Direction: EB (In)
Municipality: Cumberland Twp.

Site Code: 3880101
Longitude: 0° 0.000 Undefined
Latitude: 0° 0.000 Undefined
Date Start: 12-Jan-10
Date End: 18-Jan-10

Start Time	Mon 11-Jan-10	Tue 12-Jan-10	Wed 13-Jan-10	Thu 14-Jan-10	Fri 15-Jan-10	Average Day	Sat 16-Jan-10	Sun 17-Jan-10	Week Average
12:00 AM	0	1	1	2	0	1	3	3	2
01:00	0	1	1	0	0	0	6	4	2
02:00	0	0	0	0	2	1	0	2	1
03:00	0	1	1	1	0	1	2	0	1
04:00	0	1	1	1	1	1	5	0	2
05:00	0	0	0	1	2	1	2	4	2
06:00	0	5	5	4	4	4	0	3	3
07:00	0	4	4	4	8	5	5	7	6
08:00	0	10	10	12	17	13	4	3	9
09:00	0	7	7	44	9	20	15	7	16
10:00	0	8	8	26	13	16	26	9	16
11:00	0	9	19	7	18	13	26	36	19
12:00 PM	0	18	22	8	24	18	17	28	20
01:00	0	14	16	8	21	15	24	12	16
02:00	0	17	11	22	36	22	20	37	24
03:00	0	14	16	15	93	34	30	13	30
04:00	0	6	20	25	47	24	15	12	21
05:00	0	25	44	25	38	33	21	5	26
06:00	0	20	28	35	40	31	36	8	28
07:00	0	17	12	5	26	15	28	8	16
08:00	0	24	8	14	15	15	15	2	13
09:00	0	6	10	7	12	9	13	3	8
10:00	0	6	7	7	14	8	3	3	7
11:00	0	0	0	1	6	2	5	2	2
Day Total	0	176	251	274	446	302	321	211	290
% Avg. WKDay	0.0%	58.3%	83.1%	90.7%	147.7%				
% Avg. Week AM Peak Vol.	0.0%	60.7%	86.6%	94.5%	153.8%	104.1%	110.7%	72.8%	11:00
PM Peak Vol.		17:00	17:00	18:00	15:00	15:00	18:00	14:00	15:00
		25	44	35	93	34	36	37	30

TRANSPORTATION RESOURCE GROUP, INC.

204 N. George Street Suite 110
York, PA 17401
(717) 846-4660

Location: Eisenhower / Allstar Drwy
Location: east of Emmitsburg Road
Direction: EB (In)
Municipality: Cumberland Twp.

Site Code: 3880101
Longitude: 0' 0.000 Undefined
Latitude: 0' 0.000 Undefined
Date Start: 12-Jan-10
Date End: 18-Jan-10

Start Time	Mon 18-Jan-10	Tue 19-Jan-10	Wed 20-Jan-10	Thu 21-Jan-10	Fri 22-Jan-10	Average Day	Sat 23-Jan-10	Sun 24-Jan-10	Week Average
12:00 AM	1					1			1
01:00	0					0			0
02:00	0					0			0
03:00	2					2			2
04:00	4					4			4
05:00	1					1			1
06:00	0					0			0
07:00	4					4			4
08:00	7					7			7
09:00	7					7			7
10:00	9					9			9
11:00	13					13			13
12:00 PM	15					15			15
01:00									
02:00									
03:00									
04:00									
05:00									
06:00									
07:00									
08:00									
09:00									
10:00									
11:00									
Day Total	63	0	0	0	0	63	0	0	63
% Avg. WkDay	100.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	
% Avg. Week AM Peak	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	
Vol. 11:00	13					13			13
PM Peak 12:00	15					15			15
Grand Total	63	176	251	274	446	365	321	211	353

AADT 301

TRANSPORTATION RESOURCE GROUP, INC.

204 N. George Street Suite 110

York, PA 17401

(717) 846-4660

Location: Eisenhower / Allstar Drwy

Location: east of Emmitsburg Road

Direction: WB (Out)

Municipality: Cumberland Twp.

Site Code: 3880102

Longitude: 0' 0.000 Undefined

Latitude: 0' 0.000 Undefined

Date Start: 12-Jan-10

Date End: 18-Jan-10

Start Time	Mon 11-Jan-10	Tue 12-Jan-10	Wed 13-Jan-10	Thu 14-Jan-10	Fri 15-Jan-10	Average Day	Sat 16-Jan-10	Sun 17-Jan-10	Week Average
12:00 AM						0	1	4	1
01:00	*	*	0	0	0	0	1	4	1
02:00	*	*	0	0	0	0	1	1	0
03:00	*	*	1	1	2	1	2	0	1
04:00	*	*	3	2	2	2	3	1	2
05:00	*	*	1	5	5	4	1	3	3
06:00	*	*	9	7	6	7	2	0	5
07:00	*	*	11	13	12	12	5	7	10
08:00	*	*	10	16	11	12	6	5	10
09:00	*	*	12	6	10	9	20	14	12
10:00	*	*	12	8	13	11	20	25	16
11:00	*	12	10	11	10	11	12	64	20
12:00 PM	*	12	18	6	17	13	28	82	27
01:00	*	9	15	18	11	13	19	27	16
02:00	*	9	8	11	13	10	13	36	15
03:00	*	13	8	35	8	16	17	13	16
04:00	*	5	12	13	15	11	14	19	13
05:00	*	11	9	7	17	11	25	9	13
06:00	*	1	7	9	12	7	18	3	8
07:00	*	19	24	19	13	19	18	1	16
08:00	*	17	32	15	4	17	7	3	13
09:00	*	15	4	3	8	8	21	4	9
10:00	*	18	2	3	5	7	4	2	6
11:00	*	1	3	2	5	3	7	2	3
Day Total	0	142	212	210	199	204	265	329	236
% Avg.	0.0%	69.6%	103.9%	102.9%	97.5%				
WKDay									
% Avg. Week	0.0%	60.2%	89.8%	89.0%	84.3%	86.4%	112.3%	139.4%	
AM Peak		11:00	09:00	08:00	10:00	07:00	09:00	11:00	11:00
Vol.		12	12	16	13	12	20	64	20
PM Peak		19:00	20:00	15:00	12:00	19:00	12:00	12:00	12:00
Vol.		19	32	35	17	19	28	82	27

TRANSPORTATION RESOURCE GROUP, INC.

204 N. George Street Suite 110
York, PA 17401
(717) 846-4660

Location: Eisenhower / Allstar Drwy
Location: east of Emmitsburg Road
Direction: WB (Out)
Municipality: Cumberland Twp.

Site Code: 3880102

Longitude: 0' 0.000 Undefined
Latitude: 0' 0.000 Undefined
Date Start: 12-Jan-10
Date End: 18-Jan-10

Start Time	Mon 18-Jan-10	Tue 19-Jan-10	Wed 20-Jan-10	Thu 21-Jan-10	Fri 22-Jan-10	Sat 23-Jan-10	Sun 24-Jan-10	Week Average
12:00 AM	0	0	0	0	0	0	0	0
01:00	0	0	0	0	0	0	0	0
02:00	0	0	0	0	0	0	0	0
03:00	1	1	1	1	1	1	1	1
04:00	3	3	3	3	3	3	3	3
05:00	1	1	1	1	1	1	1	1
06:00	4	4	4	4	4	4	4	4
07:00	9	9	9	9	9	9	9	9
08:00	9	9	9	9	9	9	9	9
09:00	7	7	7	7	7	7	7	7
10:00	10	10	10	10	10	10	10	10
11:00	14	14	14	14	14	14	14	14
12:00 PM	14	14	14	14	14	14	14	14
01:00								
02:00								
03:00								
04:00								
05:00								
06:00								
07:00								
08:00								
09:00								
10:00								
11:00								
Day Total	72	72	72	72	72	72	72	72
% Avg. WkDay	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
% Avg. Week AM Peak	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Vol.	14	14	14	14	14	14	14	14
PM Peak	12:00	12:00	12:00	12:00	12:00	12:00	12:00	12:00
Vol.	14	14	14	14	14	14	14	14
Grand Total	72	142	212	210	199	276	329	308

ADT

ADT 243

ADT 243

TRANSPORTATION RESOURCE GROUP, INC.

204 N. George Street Suite 110
York, PA 17401
(717) 846-4660

Location: Emmitsburg Road (S.R.3001)
Loc: just north of Eisenhower/Allstar dr
Direction: SB
Municipality: Cumberland Twp.

Site Code: 3880103
Longitude: 0' 0.000 Undefined
Latitude: 0' 0.000 Undefined
Date Start: 12-Jan-10
Date End: 18-Jan-10

Start Time	Mon 11-Jan-10	Tue 12-Jan-10	Wed 13-Jan-10	Thu 14-Jan-10	Fri 15-Jan-10	Average Day	Sat 16-Jan-10	Sun 17-Jan-10	Week Average
12:00 AM	*	*	5	10	9	8	6	7	7
01:00	*	*	1	3	4	3	13	11	6
02:00	*	*	2	4	7	4	4	8	5
03:00	*	*	6	4	5	5	5	6	5
04:00	*	*	21	22	18	20	5	1	13
05:00	*	*	34	26	27	29	6	5	20
06:00	*	*	51	45	37	44	4	8	29
07:00	*	*	61	70	74	68	25	23	51
08:00	*	*	67	54	101	74	26	41	58
09:00	*	*	53	73	60	62	51	57	59
10:00	*	*	74	62	66	67	78	50	66
11:00	*	58	60	45	58	55	89	81	65
12:00 PM	*	67	59	61	83	68	85	94	75
01:00	*	52	70	66	68	64	118	67	74
02:00	*	62	53	76	71	66	97	82	74
03:00	*	83	68	82	98	83	92	68	82
04:00	*	85	80	80	104	87	103	64	86
05:00	*	83	71	85	99	84	76	48	77
06:00	*	54	54	71	77	64	79	61	66
07:00	*	34	40	46	55	44	75	24	46
08:00	*	66	30	47	51	48	52	35	47
09:00	*	29	28	31	40	32	48	20	33
10:00	*	13	19	16	38	22	25	9	20
11:00	*	6	11	6	17	10	24	8	12
Day Total	0	692	1018	1085	1267	1111	1186	878	1076
% Avg. WKDay	0.0%	62.3%	91.6%	97.7%	114.0%				
% Avg. Week AM Peak	0.0%	64.3%	94.6%	100.8%	117.8%	103.3%	110.2%	81.6%	
Vol. PM Peak		11:00	10:00	09:00	08:00	08:00	11:00	11:00	10:00
Vol. PM Peak		58	74	73	101	74	89	81	66
Vol. PM Peak		16:00	16:00	17:00	16:00	16:00	13:00	12:00	16:00
Vol. PM Peak		85	80	85	104	87	118	94	86

TRANSPORTATION RESOURCE GROUP, INC.

204 N. George Street Suite 110
York, PA 17401
(717) 846-4660

Location: Emmitsburg Road (S.R.3001)
Loc: just north of Eisenhower/Allistar dr
Direction: SB
Municipality: Cumberland Twp.

Site Code: 3880103
Longitude: 0' 0.000 Undefined
Latitude: 0' 0.000 Undefined
Date Start: 12-Jan-10
Date End: 18-Jan-10

Start Time	Mon 18-Jan-10	Tue 19-Jan-10	Wed 20-Jan-10	Thu 21-Jan-10	Fri 22-Jan-10	Sat 23-Jan-10	Sun 24-Jan-10	Week Average
12:00 AM	3							3
01:00	2							2
02:00	1							1
03:00	4							4
04:00	12							12
05:00	22							22
06:00	22							22
07:00	46							46
08:00	41							41
09:00	59							59
10:00	60							60
11:00	88							88
12:00 PM	42							42
01:00								
02:00								
03:00								
04:00								
05:00								
06:00								
07:00								
08:00								
09:00								
10:00								
11:00								
Day Total	402	0	0	0	0	0	0	402
% Avg. WKDay	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
% Avg. Week	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
AM Peak	11:00							100.0%
Vol.	88							11:00
PM Peak	12:00							88
Vol.	42							12:00
Grand Total	402	692	1018	1085	1267	1186	878	1478
ADT								
ADT 1,087								
AADT 1,087								

TRANSPORTATION RESOURCE GROUP, INC.

Location: Emmitsburg Road (S.R.3001)
 Loc: just south of Eisenhower/Allistar dr
 Direction: NB
 Municipality: Cumberland Twp.

204 N. George Street Suite 110
 York, PA 17401
 (717) 846-4660

Site Code: 3880104
 Longitude: 0' 0.000 Undefined
 Latitude: 0' 0.000 Undefined
 Date Start: 12-Jan-10
 Date End: 18-Jan-10

Start Time	Mon 11-Jan-10	Tue 12-Jan-10	Wed 13-Jan-10	Thu 14-Jan-10	Fri 15-Jan-10	Average Day	Sat 16-Jan-10	Sun 17-Jan-10	Week Average
12:00 AM	4	6	4	7	6	6	5	4	5
01:00	*	*	6	0	2	3	9	10	5
02:00	*	*	4	5	4	4	7	7	5
03:00	*	*	4	1	4	3	3	2	3
04:00	*	*	7	8	8	8	4	4	6
05:00	*	*	12	13	10	12	3	2	8
06:00	*	*	31	27	29	29	14	8	22
07:00	*	*	55	56	58	56	23	23	43
08:00	*	*	68	61	64	64	53	27	55
09:00	*	*	66	50	50	55	60	46	54
10:00	*	*	49	54	58	54	81	55	59
11:00	*	*	53	44	75	57	89	74	67
12:00 PM	51	51	50	58	65	56	88	57	62
01:00	49	49	51	54	59	53	91	58	60
02:00	83	83	64	57	100	76	87	59	75
03:00	69	69	62	77	132	85	102	51	82
04:00	91	91	101	90	144	106	89	62	96
05:00	113	113	99	100	115	107	83	49	93
06:00	80	80	70	75	84	77	78	33	70
07:00	66	66	43	45	67	55	45	24	48
08:00	31	31	23	49	43	36	33	24	34
09:00	22	22	18	31	32	26	24	10	23
10:00	17	17	16	22	31	22	20	15	20
11:00	8	8	11	12	11	10	18	3	10
Day Total	0	680	967	996	1251	1060	1109	707	1005
% Avg. WKDay	0.0%	64.2%	91.2%	94.0%	118.0%				
% Avg. Week AM Peak Vol.	0.0%	67.7%	96.2%	99.1%	124.5%	105.5%	110.3%	70.3%	11:00
PM Peak Vol.		17:00	68	61	75	64	89	74	67
		113	16:00	17:00	16:00	17:00	15:00	16:00	16:00
			101	100	144	107	102	62	96

TRANSPORTATION RESOURCE GROUP, INC.

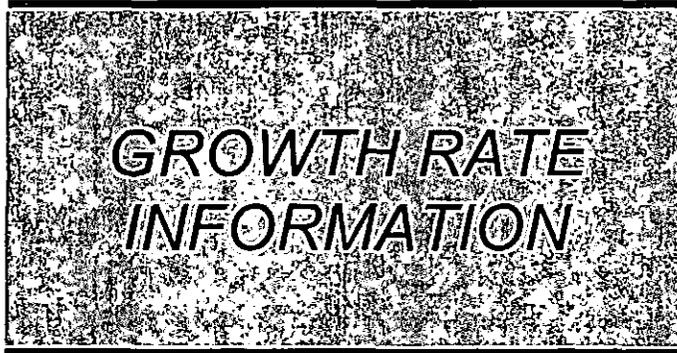
204 N. George Street Suite 110
York, PA 17401
(717) 846-4660

Site Code: 3880104

Longitude: 0' 0.000 Undefined
Latitude: 0' 0.000 Undefined
Date Start: 12-Jan-10
Date End: 18-Jan-10

Location: Emmitsburg Road (S.R.3001)
Loc: just south of Eisenhower/Allstar dr
Direction: NB
Municipality: Cumberland Twp.

Start Time	Mon 18-Jan-10	Tue 19-Jan-10	Wed 20-Jan-10	Thu 21-Jan-10	Fri 22-Jan-10	Average Day	Sat 23-Jan-10	Sun 24-Jan-10	Week Average
12:00 AM	5					5			5
01:00	4					4			4
02:00	5					5			5
03:00	2					2			2
04:00	8					8			8
05:00	8					8			8
06:00	23					23			23
07:00	44					44			44
08:00	51					51			51
09:00	50					50			50
10:00	68					68			68
11:00	72					72			72
12:00 PM	53					53			53
01:00	*					*			*
02:00	*					*			*
03:00	*					*			*
04:00	*					*			*
05:00	*					*			*
06:00	*					*			*
07:00	*					*			*
08:00	*					*			*
09:00	*					*			*
10:00	*					*			*
11:00	*					*			*
Day Total	393	0	0	0	0	393	0	0	393
% Avg. WKDay	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
% Avg. Week AM Peak	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
Vol. PM Peak	72					72			72
Vol. Grand Total	53	393	680	967	996	1453	1109	707	1398
ADT ADT 1,006 ADT 1,006 AADT 1,006									



**GROWTH RATE
INFORMATION**

Growth Factors for July 2009 to July 2010

County	Urban Interstate	Rural Interstate	Urban Non-Interstate	Rural Non-Interstate
ADAMS	*	*	1.99	0.86
ALLEGHENY	1.36	*	0.00	0.58
ARMSTRONG	1.56	*	0.73	0.63
BEAVER	1.51	2.32	0.29	0.64
BEDFORD	*	2.37	*	0.64
BERKS	1.54	2.19	0.68	0.65
BLAIR	0.86	1.65	0.00	0.40
BRADFORD	1.34	*	0.38	0.51
BUCKS	2.31	2.40	2.24	0.87
BUTLER	2.39	2.54	2.34	0.92
CAMBRIA	0.01	*	0.00	0.08
CAMERON	*	*	*	0.26
CARBON	1.92	2.89	0.48	0.80
CENTRE	2.46	2.84	2.07	0.97
CHESTER	2.43	2.76	2.05	0.94
CLARION	1.92	2.41	1.02	0.73
CLEARFIELD	*	2.74	0.94	0.82
CLINTON	0.88	1.44	0.09	0.37
COLUMBIA	1.47	1.96	0.77	0.60
CRAWFORD	0.86	1.73	0.00	0.40
CUMBERLAND	2.80	2.71	3.20	1.08
DAUPHIN	1.74	2.35	0.84	0.71
DELAWARE	1.37	*	0.21	0.56
ELK	*	*	0.10	0.49
ERIE	1.28	2.02	0.20	0.55
FAYETTE	1.48	*	0.33	0.63
FOREST	*	*	*	0.59
FRANKLIN	2.01	2.01	1.94	0.73
FULTON	*	2.54	*	0.78
GREENE	1.30	1.91	0.37	0.54
HUNTINGDON	*	2.44	0.49	0.69
INDIANA	1.64	*	0.51	0.61
JEFFERSON	*	1.87	0.42	.5
JUNIATA	*	*	*	0.72
LACKAWANNA	1.11	1.85	0.00	0.47
LANCASTER	2.04	2.37	1.54	0.79
LAWRENCE	1.35	1.96	0.39	0.55
LEBANON	*	2.05	1.15	0.66
LEHIGH	1.75	2.32	0.94	0.71
LUZERNE	0.95	1.68	0.00	0.42
LYCOMING	1.22	1.95	0.04	0.51
MCKEAN	1.10	*	0.00	0.46
MERCER	0.83	1.54	0.00	0.36
MIFFLIN	1.23	*	0.17	0.53
MONROE	2.75	2.96	3.00	1.11
MONTGOMERY	1.55	2.00	0.89	0.62
MONTOUR	*	2.57	1.38	0.82
NORTHAMPTON	1.88	*	1.50	0.76
NORTHUMBERLAND	0.77	1.49	0.00	0.34
PERRY	*	*	2.57	0.81
PHILADELPHIA	0.82	*	0.00	*
PIKE	*	3.16	*	1.16
POTTER	*	*	*	0.69
SCHUYLKILL	*	1.58	0.02	0.41
SNYDER	1.73	*	1.24	0.70
SOMERSET	1.19	1.86	0.15	0.50
SULLIVAN	*	*	*	0.64
SUSQUEHANNA	1.67	2.16	0.88	0.66
TIOGA	*	*	*	0.50
UNION	*	2.47	1.88	0.85
VENANGO	1.08	1.74	0.00	0.44
WARREN	*	*	0.16	0.47
WASHINGTON	1.59	2.33	0.41	0.65
WAYNE	*	2.56	1.98	0.89
WESTMORELAND	1.45	2.24	0.16	0.60
WYOMING	*	*	0.41	0.42
YORK	2.12	2.47	1.69	0.83

* = Functional Class Doesn't Exist in County

Questions? Please contact Joe Piper at the Bureau of Planning and Research, 717-214-8687 or josephpipe@state.pa.us

NOTE: The projected growth factors are derived using historical VMT (Vehicle Miles Traveled) data (1996 to 2007), as well as Woods and Poole demographic and economic data. The factors should not be used to project traffic beyond a 20-year period. Please be aware that these factors are estimates, and unforeseen events (opening of shopping centers, fast food franchises, gas stations, etc) could cause growth to change over time.



INTERSECTION/ROADWAY
TRAFFIC VOLUME
SPREADSHEETS

Intersection/Roadway Traffic
Volume Spreadsheets

SITE IMPACT TRAFFIC EVALUATION

----- GENERAL INFORMATION FOR SITETRIP WORKSHEET -----

Title: Mason Dixon Resorts and Casino
 TRANSPORTATION IMPACT STUDY
 Location: Cumberland Township, Adams County
 Performed By: DJT Date: 01/19/10

Intersection 1: Emmitsburg Road / Altstar Driveway Site A: Casino
 Intersection 2: Emmitsburg Road / Barlow Greenmount Road Site B: (Site)
 Intersection 3: Emmitsburg Road / Route 15 SB Off Ramp Site C: (Site)
 Intersection 4: Emmitsburg Road / Route 15 SB (NBL) On Ramp Site D: (Site)
 Intersection 5: Emmitsburg Road / Route 15 NB Ramps Site E: (Site)
 Intersection 6: Site F: (Site)
 Intersection 7: (STREET NAMES) Design Hour: PM Peak - Weekday
 Intersection 8: (STREET NAMES) Design Year: 2012
 Intersection 9: (STREET NAMES) Background Factor: 1.02
 Intersection 10: (STREET NAMES) Seasonal Factor: 1.15
 Intersection 11: (STREET NAMES)
 Intersection 12: (STREET NAMES)

----- EXISTING AND FUTURE TRAFFIC WITHOUT DEVELOPMENT -----

APPROACH	EXISTING TRAFFIC	Existing Traffic Volumes (Seasonal Factored)	FUTURE TRAFFIC W/ COM DEV W/O PRO DEV	Committed Developments		PHF	RTOR	Trucks	Truck Percentage
INTERSECTION 1: Emmitsburg Road / Altstar Driveway									
EB LEFT	0	0	0			0.00		0	0%
THROUGH	0	0	0			0.00		0	0%
RIGHT	0	0	0			0.00	0	0	0%
WB LEFT	5	6	6			0.63		0	0%
THROUGH	0	0	0			0.00		0	0%
RIGHT	5	6	6			0.63	0	0	0%
NB LEFT	0	0	0			0.00		0	0%
THROUGH	98	113	115			0.85		1	1%
RIGHT	6	7	7			0.38	0	0	0%
SB LEFT	9	10	10			0.75		0	0%
THROUGH	95	109	111			0.88		1	1%
RIGHT	0	0	0			0.00	0	0	0%
TOTAL	218	251	255					0	0%
INTERSECTION 2: Emmitsburg Road / Barlow Greenmount Road									
EB LEFT	0	0	0			0.00		0	0%
THROUGH	0	0	0			0.00		0	0%
RIGHT	0	0	0			0.00	0	0	0%
WB LEFT	7	8	8			0.58		0	0%
THROUGH	0	0	0			0.00		0	0%
RIGHT	12	14	14			0.80	0	0	0%
NB LEFT	0	0	0			0.00		0	0%
THROUGH	100	115	117			0.83		1	1%
RIGHT	12	14	14			0.75	0	0	0%
SB LEFT	13	15	15			0.54		0	0%
THROUGH	99	114	116			0.85		0	0%
RIGHT	0	0	0			0.00	0	0	0%
TOTAL	243	280	284					0	0%
INTERSECTION 3: Emmitsburg Road / Route 15 SB Off Ramp									
EB LEFT	0	0	0			0.00		0	0%
THROUGH	0	0	0			0.00		0	0%
RIGHT	0	0	0			0.00	0	0	0%
WB LEFT	37	37	38			0.77		5	14%
THROUGH	0	0	0			0.25		0	0%
RIGHT	82	82	83			0.82	0	3	4%
NB LEFT	0	0	0			0.00		0	0%
THROUGH	200	200	203			0.81		6	3%
RIGHT	0	0	0			0.00	0	0	0%
SB LEFT	0	0	0			0.00		0	0%
THROUGH	62	62	63			0.86		0	0%
RIGHT	64	64	65			0.80	0	1	2%
TOTAL	445	445	452					1	2%
INTERSECTION 4: Emmitsburg Road / Route 15 SB (NBL) On Ramp									
EB LEFT	0	0	0			0.00		0	0%
THROUGH	0	0	0			0.00		0	0%
RIGHT	0	0	0			0.00	0	0	0%
WB LEFT	0	0	0			0.00		0	0%
THROUGH	0	0	0			0.00		0	0%
RIGHT	0	0	0			0.00	0	0	0%
NB LEFT	13	13	13			0.65		2	15%
THROUGH	200	200	203			0.81		6	3%
RIGHT	0	0	0			0.00	0	0	0%
SB LEFT	0	0	0			0.00		0	0%
THROUGH	99	99	101			0.86		5	5%
RIGHT	0	0	0			0.00	0	0	0%
TOTAL	312	312	317					0	0%
INTERSECTION 5: Emmitsburg Road / Route 15 NB Ramps									
EB LEFT	147	147	150			0.80		2	1%
THROUGH	0	0	0			0.00		0	0%
RIGHT	11	11	11			0.69	0	1	9%
WB LEFT	0	0	0			0.00		0	0%
THROUGH	0	0	0			0.00		0	0%
RIGHT	0	0	0			0.00	0	0	0%
NB LEFT	0	0	0			0.00		0	0%
THROUGH	65	65	66			0.85		5	8%
RIGHT	37	37	38			0.62	0	2	5%
SB LEFT	33	33	34			0.69		1	3%
THROUGH	67	67	68			0.84		4	6%
RIGHT	0	0	0			0.00	0	0	0%
TOTAL	360	360	367					0	0%

----- DATA INPUT/RESULTS FOR TRIP GENERATION -----

SITE A	Casino					TOTAL
DESIGN HOUR	PM Peak - Weekday					
Land Use Type	(type)	(type)	(type)	(type)	(type)	(type)
Trps Per Unit:						
Inbound	186.00	0.00	0.00	0.00	0.00	0.00
Outbound	168.00	0.00	0.00	0.00	0.00	0.00
Number of Units	1.00	0.00	0.00	0.00	0.00	0.00
Buildout	100%	0%	0%	0%	0%	0%
Pass-By Trips	0%	0%	0%	0%	0%	0%
New Site Trips:						
Inbound	186	0	0	0	0	186
Outbound	168	0	0	0	0	168
Pass-By Trips:						
Inbound	0	0	0	0	0	0
Outbound	0	0	0	0	0	0
Total Site Trips:						
Inbound	186	0	0	0	0	186
Outbound	168	0	0	0	0	168
Total	354	0	0	0	0	354

----- SINGLE SITE TRAFFIC ASSIGNMENT -----

SITE A	Casino										
DESIGN HOUR	PM Peak - Weekday										
APPROACH	Existing Traffic	FUTURE	% NEW SITE TRIPS		% PASS-BY TRIPS		NEW	PASS-BY	TOTAL	FUTURE	FUTURE
	Volumes	TRAFFIC	INBOUND	OUTBOUND	INBOUND	OUTBOUND	SITE	ADJUSTMENT	SITE	TRAFFIC	TRAFFIC
	(Seasonal	W/ COM DEV								W/ COM DEV	W/ COM DEV
	Factored)	W/O PRO								W/ PRO DEV	W/ PRO DEV
INTERSECTION 1: Emmitsburg Road / Allstar Driveway											
EB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0
WB LEFT	8	8	0%	90%	0%	0%	151	0	151	157	157
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0
RIGHT	5	8	0%	10%	0%	0%	17	0	17	23	23
NB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0
THROUGH	113	115	0%	0%	0%	0%	0	0	0	113	115
RIGHT	7	7	90%	0%	0%	0%	167	0	167	174	174
SB LEFT	10	10	10%	0%	0%	0%	19	0	19	29	29
THROUGH	109	111	0%	0%	0%	0%	0	0	0	109	111
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0
TOTAL	251	255	100%	100%	0%	0%	354	0	0	605	609
INTERSECTION 2: Emmitsburg Road / Barlow Greenmount Road											
EB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0
WB LEFT	8	8	1%	0%	0%	0%	2	0	2	10	10
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0
RIGHT	14	14	0%	0%	0%	0%	0	0	0	14	14
NB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0
THROUGH	115	117	0%	9%	0%	0%	15	0	15	130	132
RIGHT	14	14	0%	1%	0%	0%	2	0	2	16	16
SB LEFT	15	15	0%	0%	0%	0%	0	0	0	15	15
THROUGH	114	116	9%	0%	0%	0%	17	0	17	131	133
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0
TOTAL	280	284	10%	10%	0%	0%	36	0	0	316	320
INTERSECTION 3: Emmitsburg Road / Route 15 SB Off Ramp											
EB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0
WB LEFT	37	38	0%	0%	0%	0%	0	0	0	37	38
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0
RIGHT	82	83	38%	0%	0%	0%	71	0	71	153	154
NB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0
THROUGH	200	203	52%	0%	0%	0%	97	0	97	297	300
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0
SB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0
THROUGH	62	63	0%	40%	0%	0%	67	0	67	129	130
RIGHT	64	65	0%	50%	0%	0%	84	0	84	148	149
TOTAL	445	452	90%	90%	0%	0%	319	0	0	319	320
INTERSECTION 4: Emmitsburg Road / Route 15 SB (NBL) On Ramp											
EB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0
WB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0
NB LEFT	13	13	0%	0%	0%	0%	0	0	0	13	13
THROUGH	200	203	52%	0%	0%	0%	97	0	97	287	300
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0
SB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0
THROUGH	99	101	0%	40%	0%	0%	67	0	67	166	168
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0
TOTAL	312	317	52%	40%	0%	0%	164	0	0	164	168
INTERSECTION 5: Emmitsburg Road / Route 15 NB Ramps											
EB LEFT	147	150	50%	0%	0%	0%	93	0	93	240	243
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0
RIGHT	11	11	0%	0%	0%	0%	0	0	0	11	11
WB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0
NB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0
THROUGH	65	66	2%	0%	0%	0%	4	0	4	69	70
RIGHT	37	38	0%	0%	0%	0%	0	0	0	37	38
SB LEFT	33	34	0%	38%	0%	0%	64	0	64	97	98
THROUGH	67	68	0%	2%	0%	0%	3	0	3	70	71
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0
TOTAL	360	367	52%	40%	0%	0%	164	0	0	164	168

SITE IMPACT TRAFFIC EVALUATION

----- GENERAL INFORMATION FOR SITETRIP WORKSHEET -----

Title: Mason Dixon Resorts and Casino
 TRANSPORTATION IMPACT STUDY
 Location: Cumberland Township, Adams County
 Performed By: DJT Date: 01/19/10

Intersection 1: Emmitsburg Road / Allstar Driveway Site A: Casino
 Intersection 2: Emmitsburg Road / Barlow Greenmount Road Site B: (Site)
 Intersection 3: Emmitsburg Road / Route 15 SB Off Ramp Site C: (Site)
 Intersection 4: Emmitsburg Road / Route 15 SB (NBL) On Ramp Site D: (Site)
 Intersection 5: Emmitsburg Road / Route 15 NB Ramps Site E: (Site)
 Intersection 6: 0 Site F: (Site)
 Intersection 7: (STREET NAMES) Design Hour: PM Peak - Weekday
 Intersection 8: (STREET NAMES) Design Year: 2017
 Intersection 9: (STREET NAMES) Background Factor: 1.06
 Intersection 10: (STREET NAMES) Seasonal Factor: 1.15
 Intersection 11: (STREET NAMES)
 Intersection 12: (STREET NAMES)

----- EXISTING AND FUTURE TRAFFIC WITHOUT DEVELOPMENT -----

APPROACH	EXISTING TRAFFIC	Existing Traffic Volumes (Seasonal Factor)	FUTURE TRAFFIC W/ COM DEV W/O PRO DEV	Committed Developments			
				PHF	RTOR	Trucks	Truck Percentage
INTERSECTION 1: Emmitsburg Road / Allstar Driveway							
EB LEFT	0	0	0	0.00		0	0%
THROUGH	0	0	0	0.00		0	0%
RIGHT	0	0	0	0.00	0	0	0%
WB LEFT	5	6	6	0.63		0	0%
THROUGH	0	0	0	0.00		0	0%
RIGHT	5	6	6	0.63	0	0	0%
NB LEFT	0	0	0	0.00		0	0%
THROUGH	98	113	120	0.65		1	1%
RIGHT	6	7	7	0.38	0	0	0%
SB LEFT	9	10	11	0.75		0	0%
THROUGH	95	109	116	0.88		1	1%
RIGHT	0	0	0	0.00	0	0	0%
TOTAL	218	251	266				
INTERSECTION 2: Emmitsburg Road / Barlow Greenmount Road							
EB LEFT	0	0	0	0.00		0	0%
THROUGH	0	0	0	0.00		0	0%
RIGHT	0	0	0	0.00	0	0	0%
WB LEFT	7	8	8	0.58		0	0%
THROUGH	0	0	0	0.00		0	0%
RIGHT	12	14	15	0.60	0	0	0%
NB LEFT	0	0	0	0.00		0	0%
THROUGH	100	115	122	0.83		1	1%
RIGHT	12	14	15	0.75	0	0	0%
SB LEFT	13	15	16	0.54		0	0%
THROUGH	99	114	121	0.85		0	0%
RIGHT	0	0	0	0.00	0	0	0%
TOTAL	243	280	297				
INTERSECTION 3: Emmitsburg Road / Route 15 SB Off Ramp							
EB LEFT	0	0	0	0.00		0	0%
THROUGH	0	0	0	0.00		0	0%
RIGHT	0	0	0	0.00	0	0	0%
WB LEFT	37	37	39	0.77		5	14%
THROUGH	0	0	0	0.25		0	0%
RIGHT	82	82	87	0.82	0	3	4%
NB LEFT	0	0	0	0.00		0	0%
THROUGH	200	200	212	0.81		6	3%
RIGHT	0	0	0	0.00	0	0	0%
SB LEFT	0	0	0	0.00		0	0%
THROUGH	62	62	66	0.86		0	0%
RIGHT	84	84	88	0.80	0	1	2%
TOTAL	445	445	472				
INTERSECTION 4: Emmitsburg Road / Route 15 SB (NBL) On Ramp							
EB LEFT	0	0	0	0.00		0	0%
THROUGH	0	0	0	0.00		0	0%
RIGHT	0	0	0	0.00	0	0	0%
WB LEFT	0	0	0	0.00		0	0%
THROUGH	0	0	0	0.00		0	0%
RIGHT	0	0	0	0.00	0	0	0%
NB LEFT	13	13	14	0.65		2	15%
THROUGH	200	200	212	0.81		6	3%
RIGHT	0	0	0	0.00	0	0	0%
SB LEFT	0	0	0	0.00		0	0%
THROUGH	99	99	105	0.88		5	5%
RIGHT	0	0	0	0.00	0	0	0%
TOTAL	312	312	331				
INTERSECTION 5: Emmitsburg Road / Route 15 NB Ramps							
EB LEFT	147	147	158	0.80		2	1%
THROUGH	0	0	0	0.00		0	0%
RIGHT	11	11	12	0.69	0	1	9%
WB LEFT	0	0	0	0.00		0	0%
THROUGH	0	0	0	0.00		0	0%
RIGHT	0	0	0	0.00	0	0	0%
NB LEFT	0	0	0	0.00		0	0%
THROUGH	65	65	69	0.86		5	8%
RIGHT	37	37	39	0.62	0	2	5%
SB LEFT	33	33	35	0.69		1	3%
THROUGH	67	67	71	0.84		4	6%
RIGHT	0	0	0	0.00	0	0	0%
TOTAL	360	360	382				

----- DATA INPUT/RESULTS FOR TRIP GENERATION -----

SITE A	Casino					TOTAL
DESIGN HOUR	PM Peak - Weekday					
Land Use Type	(type)	(type)	(type)	(type)	(type)	(type)
Trips Per Unit:						
Inbound	186.00	0.00	0.00	0.00	0.00	0.00
Outbound	168.00	0.00	0.00	0.00	0.00	0.00
Number of Units	1.00	0.00	0.00	0.00	0.00	0.00
Buildout	100%	0%	0%	0%	0%	0%
Pass-By Trips	0%	0%	0%	0%	0%	0%
New Site Trips:						
Inbound	186	0	0	0	0	186
Outbound	168	0	0	0	0	168
Pass-By Trips:						
Inbound	0	0	0	0	0	0
Outbound	0	0	0	0	0	0
Total Site Trips:						
Inbound	186	0	0	0	0	186
Outbound	168	0	0	0	0	168
Total	354	0	0	0	0	354

----- SINGLE SITE TRAFFIC ASSIGNMENT -----

SITE A	Casino					FUTURE TRAFFIC		FUTURE TRAFFIC			
DESIGN HOUR	PM Peak - Weekday					W/ COM DEV		W/ COM DEV			
APPROACH	Easing Traffic Volumes (Seasonal)	FUTURE TRAFFIC W/ COM DEV W/ PRO	% NEW SITE TRIPS		% PASS-BY TRIPS		NEW SITE TRIPS	PASS-BY	TOTAL SITE TRIPS	FUTURE TRAFFIC W/ COM DEV W/ PRO	FUTURE TRAFFIC W/ COM DEV W/ PRO
			INBOUND	OUTBOUND	INBOUND	OUTBOUND					
INTERSECTION 1: Emmitsburg Road / Altstar Driveway											
EB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0
WB LEFT	8	6	0%	90%	0%	0%	151	0	151	157	157
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0
RIGHT	6	6	0%	10%	0%	0%	17	0	17	23	23
NB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0
THROUGH	113	120	0%	0%	0%	0%	0	0	0	113	120
RIGHT	7	7	50%	0%	0%	0%	167	0	167	174	174
SB LEFT	10	11	10%	0%	0%	0%	19	0	19	29	30
THROUGH	109	116	0%	0%	0%	0%	0	0	0	109	116
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0
TOTAL	251	266	100%	100%	0%	0%	354	0	354	605	620
INTERSECTION 2: Emmitsburg Road / Barlow Greenmount Road											
EB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0
WB LEFT	8	8	1%	0%	0%	0%	2	0	2	10	10
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0
RIGHT	14	15	0%	0%	0%	0%	0	0	0	14	15
NB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0
THROUGH	115	122	0%	9%	0%	0%	15	0	15	130	137
RIGHT	14	15	0%	1%	0%	0%	2	0	2	16	17
SB LEFT	15	16	0%	0%	0%	0%	0	0	0	15	16
THROUGH	114	121	9%	0%	0%	0%	17	0	17	131	138
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0
TOTAL	280	297	10%	10%	0%	0%	36	0	36	316	333
INTERSECTION 3: Emmitsburg Road / Route 15 SB Off Ramp											
EB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0
WB LEFT	37	39	0%	0%	0%	0%	0	0	0	37	39
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0
RIGHT	82	87	38%	0%	0%	0%	71	0	71	153	158
NB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0
THROUGH	200	212	52%	0%	0%	0%	97	0	97	297	309
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0
SB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0
THROUGH	62	66	0%	40%	0%	0%	67	0	67	129	133
RIGHT	64	68	0%	50%	0%	0%	84	0	84	148	152
TOTAL	445	472	90%	90%	0%	0%	319	0	319	764	791
INTERSECTION 4: Emmitsburg Road / Route 15 SB (NBL) On Ramp											
EB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0
WB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0
NB LEFT	13	14	0%	0%	0%	0%	0	0	0	13	14
THROUGH	200	212	52%	0%	0%	0%	97	0	97	297	309
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0
SB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0
THROUGH	99	105	0%	40%	0%	0%	67	0	67	166	172
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0
TOTAL	312	331	52%	40%	0%	0%	164	0	164	476	495
INTERSECTION 5: Emmitsburg Road / Route 15 NB Ramps											
EB LEFT	147	156	50%	0%	0%	0%	93	0	93	240	249
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0
RIGHT	11	12	0%	0%	0%	0%	0	0	0	11	12
WB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0
NB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0
THROUGH	65	69	2%	0%	0%	0%	4	0	4	69	73
RIGHT	37	39	0%	0%	0%	0%	0	0	0	37	39
SB LEFT	33	35	0%	38%	0%	0%	64	0	64	97	99
THROUGH	67	71	0%	2%	0%	0%	3	0	3	70	74
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0
TOTAL	360	382	52%	40%	0%	0%	164	0	164	524	546

SITE IMPACT TRAFFIC EVALUATION

GENERAL INFORMATION FOR SITETRIIP WORKSHEET

Title: Mason Dixon Resorts and Casino
 TRANSPORTATION IMPACT STUDY
 Location: Cumberland Township, Adams County
 Performed By: DJT Date: 01/19/10

Intersection 1: Emmitsburg Road / Allstar Driveway Site A: Casino
 Intersection 2: Emmitsburg Road / Barlow Greenmount Road Site B: (Site)
 Intersection 3: Emmitsburg Road / Route 15 SB Off Ramp Site C: (Site)
 Intersection 4: Emmitsburg Road / Route 15 SB (NBL) On Ramp Site D: (Site)
 Intersection 5: Emmitsburg Road / Route 15 NB Ramps Site E: (Site)
 Intersection 6: 0 Site F: (Site)
 Intersection 7: (STREET NAMES) Design Hour: PM Peak - Friday
 Intersection 8: (STREET NAMES) Design Year: 2012
 Intersection 9: (STREET NAMES) Background Factor: 1.02
 Intersection 10: (STREET NAMES) Seasonal Factor: 1.15
 Intersection 11: (STREET NAMES)
 Intersection 12: (STREET NAMES)

EXISTING AND FUTURE TRAFFIC WITHOUT DEVELOPMENT

APPROACH	EXISTING TRAFFIC	Existing Traffic Volumes (Seasonal Factored)	FUTURE TRAFFIC W/ COM DEV W/O PRO DEV	Committed Developments	PHF	RTOR	Trucks	Truck Percentage
INTERSECTION 1: Emmitsburg Road / Allstar Driveway								
EB LEFT	0	0	0		0.00		0	0%
THROUGH	0	0	0		0.00		0	0%
RIGHT	0	0	0		0.00	0	0	0%
WB LEFT	3	3	3		0.75		0	0%
THROUGH	0	0	0		0.00		0	0%
RIGHT	8	9	9		0.50	0	0	0%
NB LEFT	0	0	0		0.00		0	0%
THROUGH	118	136	138		0.89		1	1%
RIGHT	25	29	29		0.78	0	0	0%
SB LEFT	18	18	18		0.50		0	0%
THROUGH	103	118	120		0.81		0	0%
RIGHT	0	0	0		0.00	0	0	0%
TOTAL	273	313	317					
INTERSECTION 2: Emmitsburg Road / Barlow Greenmount Road								
EB LEFT	0	0	0		0.00		0	0%
THROUGH	0	0	0		0.00		0	0%
RIGHT	0	0	0		0.00	0	0	0%
WB LEFT	8	9	9		0.50		0	0%
THROUGH	0	0	0		0.00		0	0%
RIGHT	5	6	6		0.83	0	0	0%
NB LEFT	0	0	0		0.00		0	0%
THROUGH	106	122	124		0.88		2	2%
RIGHT	15	17	17		0.42	0	0	0%
SB LEFT	10	12	12		0.50		0	0%
THROUGH	79	91	93		0.88		1	1%
RIGHT	0	0	0		0.00	0	0	0%
TOTAL	223	257	261					
INTERSECTION 3: Emmitsburg Road / Route 15 SB Off Ramp								
EB LEFT	0	0	0		0.00		0	0%
THROUGH	0	0	0		0.00		0	0%
RIGHT	0	0	0		0.00	0	0	0%
WB LEFT	53	53	54		0.92		2	4%
THROUGH	1	1	1		0.25		0	0%
RIGHT	33	33	34		0.78	0	3	9%
NB LEFT	0	0	0		0.00		0	0%
THROUGH	169	169	172		0.90		8	5%
RIGHT	0	0	0		0.00	0	0	0%
SB LEFT	0	0	0		0.00		0	0%
THROUGH	113	113	115		0.71		9	8%
RIGHT	87	87	88		0.81	0	4	5%
TOTAL	458	458	464					
INTERSECTION 4: Emmitsburg Road / Route 15 SB (NBL) On Ramp								
EB LEFT	0	0	0		0.00		0	0%
THROUGH	0	0	0		0.00		0	0%
RIGHT	0	0	0		0.00	0	0	0%
WB LEFT	0	0	0		0.00		0	0%
THROUGH	0	0	0		0.00		0	0%
RIGHT	0	0	0		0.00	0	0	0%
NB LEFT	17	17	17		0.85		2	12%
THROUGH	169	169	172		0.90		8	5%
RIGHT	0	0	0		0.00	0	0	0%
SB LEFT	0	0	0		0.00		0	0%
THROUGH	146	146	149		0.71		11	8%
RIGHT	0	0	0		0.00	0	0	0%
TOTAL	332	332	338					
INTERSECTION 5: Emmitsburg Road / Route 15 NB Ramps								
EB LEFT	131	131	133		0.86		7	5%
THROUGH	0	0	0		0.00		0	0%
RIGHT	4	4	4		0.50	0	1	25%
WB LEFT	0	0	0		0.00		0	0%
THROUGH	0	0	0		0.00		0	0%
RIGHT	0	0	0		0.00	0	0	0%
NB LEFT	0	0	0		0.00		0	0%
THROUGH	78	78	77		0.78		4	5%
RIGHT	39	39	40		0.81	0	1	3%
SB LEFT	64	64	65		0.84		5	8%
THROUGH	70	70	71		0.88		8	11%
RIGHT	0	0	0		0.00	0	0	0%
TOTAL	384	384	390					

DATA INPUT/RESULTS FOR TRIP GENERATION

SITE A	Casino					TOTAL
DESIGN HOUR	PM Peak - Friday					
Land Use Type	(type)	(type)	(type)	(type)	(type)	(type)
Trips Per Unit:						
Inbound	216.00	0.00	0.00	0.00	0.00	0.00
Outbound	198.00	0.00	0.00	0.00	0.00	0.00
Number of Units	1.00	0.00	0.00	0.00	0.00	0.00
Buildout	100%	0%	0%	0%	0%	0%
Pass-By Trips	0%	0%	0%	0%	0%	0%
New Site Trips:						
Inbound	216	0	0	0	0	216
Outbound	198	0	0	0	0	198
Pass-By Trips:						
Inbound	0	0	0	0	0	0
Outbound	0	0	0	0	0	0
Total Site Trips:						
Inbound	216	0	0	0	0	216
Outbound	198	0	0	0	0	198
Total	414	0	0	0	0	414

SINGLE SITE TRAFFIC ASSIGNMENT

SITE A	Casino											
DESIGN HOUR	PM Peak - Friday											
APPROACH	Existing Traffic Volume (Seasonal)	FUTURE TRAFFIC W/ COM DEV W/O PRO	% NEW SITE TRIPS		% PASS-BY TRIPS		NEW SITE TRIPS	PASS-BY	PASS-BY ADJUSTMENT	TOTAL SITE TRIPS	FUTURE TRAFFIC W/ COM DEV W/O PRO	FUTURE TRAFFIC W/ COM DEV W/ PRO DEV
			INBOUND	OUTBOUND	INBOUND	OUTBOUND						
INTERSECTION 1: Emmitsburg Road / Adistar Driveway												
EB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0	0
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
WB LEFT	3	3	0%	90%	0%	0%	178	0	0	178	181	181
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0	0
RIGHT	9	9	0%	10%	0%	0%	20	0	0	20	29	29
NB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	136	138	0%	0%	0%	0%	0	0	0	0	136	138
RIGHT	29	29	90%	0%	0%	0%	194	0	0	194	223	223
SB LEFT	18	18	10%	0%	0%	0%	22	0	0	22	40	40
THROUGH	118	120	0%	0%	0%	0%	0	0	0	0	118	120
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
TOTAL	313	317	100%	100%	0%	0%	414	0	0	414	727	731
INTERSECTION 2: Emmitsburg Road / Barlow Greenmount Road												
EB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0	0
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
WB LEFT	9	9	1%	0%	0%	0%	2	0	0	2	11	11
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0	0
RIGHT	6	6	0%	0%	0%	0%	0	0	0	0	6	6
NB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	122	124	0%	9%	0%	0%	18	0	0	18	140	142
RIGHT	17	17	0%	1%	0%	0%	2	0	0	2	19	19
SB LEFT	12	12	0%	0%	0%	0%	0	0	0	0	12	12
THROUGH	91	93	9%	0%	0%	0%	19	0	0	19	110	112
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
TOTAL	257	261	10%	10%	0%	0%	41	0	0	41	298	302
INTERSECTION 3: Emmitsburg Road / Route 15 SB Off Ramp												
EB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0	0
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
WB LEFT	53	54	0%	0%	0%	0%	0	0	0	0	53	54
THROUGH	1	1	0%	0%	0%	0%	0	0	0	0	1	1
RIGHT	33	34	38%	0%	0%	0%	82	0	0	82	115	116
NB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	169	172	52%	0%	0%	0%	112	0	0	112	281	284
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
SB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	113	115	0%	40%	0%	0%	79	0	0	79	192	194
RIGHT	87	88	0%	50%	0%	0%	88	0	0	88	188	187
TOTAL	458	464	90%	90%	0%	0%	372	0	0	372	828	836
INTERSECTION 4: Emmitsburg Road / Route 15 SB (NBL) On Ramp												
EB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0	0
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
WB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0	0
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
NB LEFT	17	17	0%	0%	0%	0%	0	0	0	0	17	17
THROUGH	169	172	52%	0%	0%	0%	112	0	0	112	281	284
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
SB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	148	149	0%	40%	0%	0%	79	0	0	79	225	228
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
TOTAL	332	338	52%	40%	0%	0%	191	0	0	191	523	529
INTERSECTION 5: Emmitsburg Road / Route 15 NB Ramps												
EB LEFT	131	133	50%	0%	0%	0%	108	0	0	108	239	241
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0	0
RIGHT	4	4	0%	0%	0%	0%	0	0	0	0	4	4
WB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0	0
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
NB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	76	77	2%	0%	0%	0%	4	0	0	4	80	81
RIGHT	39	40	0%	0%	0%	0%	0	0	0	0	39	40
SB LEFT	64	65	0%	38%	0%	0%	75	0	0	75	139	140
THROUGH	70	71	0%	2%	0%	0%	4	0	0	4	74	75
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
TOTAL	384	390	52%	40%	0%	0%	191	0	0	191	575	581

SITE IMPACT TRAFFIC EVALUATION

GENERAL INFORMATION FOR SITETRIIP WORKSHEET

Title: Mason Dixon Resorts and Casino
 TRANSPORTATION IMPACT STUDY
 Location: Cumberland Township, Adams County
 Performed By: DJT Date: 01/19/10

Intersection 1: Emmitsburg Road / Allstar Driveway Site A: Casino
 Intersection 2: Emmitsburg Road / Barlow Greenmount Road Site B: (Site)
 Intersection 3: Emmitsburg Road / Route 15 SB Off Ramp Site C: (Site)
 Intersection 4: Emmitsburg Road / Route 15 SB (NBL) On Ramp Site D: (Site)
 Intersection 5: Emmitsburg Road / Route 15 NB Ramps Site E: (Site)
 Intersection 6: 0 Site F: (Site)
 Intersection 7: (STREET NAMES) Design Hour: PM Peak - Friday
 Intersection 8: (STREET NAMES) Design Year: 2017
 Intersection 9: (STREET NAMES) Background Factor: 1.06
 Intersection 10: (STREET NAMES) Seasonal Factor: 1.15
 Intersection 11: (STREET NAMES)
 Intersection 12: (STREET NAMES)

EXISTING AND FUTURE TRAFFIC WITHOUT DEVELOPMENT

APPROACH	EXISTING TRAFFIC	Existing Traffic Volumes (Seasonal Factored)	FUTURE TRAFFIC W/ COM DEV W/O PRO DEV	Committed Developments	PHF	RTOR	Trucks	Truck Percentage
INTERSECTION 1: Emmitsburg Road / Allstar Driveway								
EB LEFT	0	0	0		0.00		0	0%
THROUGH	0	0	0		0.00		0	0%
RIGHT	0	0	0		0.00	0	0	0%
WB LEFT	3	3	3		0.75		0	0%
THROUGH	0	0	0		0.00		0	0%
RIGHT	8	9	10		0.50	0	0	0%
NB LEFT	0	0	0		0.00		0	0%
THROUGH	118	136	144		0.89		1	1%
RIGHT	25	29	31		0.78	0	0	0%
SB LEFT	18	18	19		0.50		0	0%
THROUGH	103	118	125		0.81		0	0%
RIGHT	0	0	0		0.00	0	0	0%
TOTAL	273	313	332					
INTERSECTION 2: Emmitsburg Road / Barlow Greenmount Road								
EB LEFT	0	0	0		0.00		0	0%
THROUGH	0	0	0		0.00		0	0%
RIGHT	0	0	0		0.00	0	0	0%
WB LEFT	8	9	10		0.50		0	0%
THROUGH	0	0	0		0.00		0	0%
RIGHT	5	6	6		0.63	0	0	0%
NB LEFT	0	0	0		0.00		0	0%
THROUGH	108	122	129		0.88		2	2%
RIGHT	15	17	18		0.42	0	0	0%
SB LEFT	10	12	13		0.50		0	0%
THROUGH	79	91	96		0.86		1	1%
RIGHT	0	0	0		0.00	0	0	0%
TOTAL	223	257	272					
INTERSECTION 3: Emmitsburg Road / Route 15 SB Off Ramp								
EB LEFT	0	0	0		0.00		0	0%
THROUGH	0	0	0		0.00		0	0%
RIGHT	0	0	0		0.00	0	0	0%
WB LEFT	53	53	56		0.92		2	4%
THROUGH	1	1	1		0.25		0	0%
RIGHT	33	33	35		0.78	0	3	9%
NB LEFT	0	0	0		0.00		0	0%
THROUGH	169	169	179		0.90		8	5%
RIGHT	0	0	0		0.00	0	0	0%
SB LEFT	0	0	0		0.00		0	0%
THROUGH	113	113	120		0.71		9	8%
RIGHT	87	87	92		0.81	0	4	5%
TOTAL	458	458	483					
INTERSECTION 4: Emmitsburg Road / Route 15 SB (NBL) On Ramp								
EB LEFT	0	0	0		0.00		0	0%
THROUGH	0	0	0		0.00		0	0%
RIGHT	0	0	0		0.00	0	0	0%
WB LEFT	0	0	0		0.00		0	0%
THROUGH	0	0	0		0.00		0	0%
RIGHT	0	0	0		0.00	0	0	0%
NB LEFT	17	17	18		0.85		2	12%
THROUGH	169	169	179		0.90		8	5%
RIGHT	0	0	0		0.00	0	0	0%
SB LEFT	0	0	0		0.00		0	0%
THROUGH	148	148	155		0.71		11	8%
RIGHT	0	0	0		0.00	0	0	0%
TOTAL	332	332	352					
INTERSECTION 5: Emmitsburg Road / Route 15 NB Ramps								
EB LEFT	131	131	139		0.86		7	5%
THROUGH	0	0	0		0.00		0	0%
RIGHT	4	4	4		0.50	0	1	25%
WB LEFT	0	0	0		0.00		0	0%
THROUGH	0	0	0		0.00		0	0%
RIGHT	0	0	0		0.00	0	0	0%
NB LEFT	0	0	0		0.00		0	0%
THROUGH	76	76	81		0.78		4	5%
RIGHT	39	39	41		0.81	0	1	3%
SB LEFT	64	64	68		0.84		5	8%
THROUGH	70	70	74		0.88		8	11%
RIGHT	0	0	0		0.00	0	0	0%
TOTAL	384	384	407					

----- DATA INPUT/RESULTS FOR TRIP GENERATION -----

SITE A	Casino					TOTAL
DESIGN HOUR	PM Peak - Friday					
Land Use Type	(type)	(type)	(type)	(type)	(type)	(type)
Trips Per Unit:						
Inbound	216.00	0.00	0.00	0.00	0.00	0.00
Outbound	198.00	0.00	0.00	0.00	0.00	0.00
Number of Units	1.00	0.00	0.00	0.00	0.00	0.00
Buildout	100%	0%	0%	0%	0%	0%
Pass-By Trips	0%	0%	0%	0%	0%	0%
New Site Trips:						
Inbound	216	0	0	0	0	216
Outbound	198	0	0	0	0	198
Pass-By Trips:						
Inbound	0	0	0	0	0	0
Outbound	0	0	0	0	0	0
Total Site Trips:						
Inbound	216	0	0	0	0	216
Outbound	198	0	0	0	0	198
Total	414	0	0	0	0	414

----- SINGLE SITE TRAFFIC ASSIGNMENT -----

SITE A	Casino											
DESIGN HOUR	PM Peak - Friday											
APPROACH	Existing Traffic Volumes (Seasonal)	FUTURE TRAFFIC W/COM DEV W/PRO	% NEW SITE TRIPS		% PASS-BY TRIPS		NEW SITE TRIPS	PASS-BY	PASS-BY ADJUSTMENT	TOTAL SITE TRIPS	FUTURE TRAFFIC W/COM DEV W/PRO	FUTURE TRAFFIC W/COM DEV W/PRO
			INBOUND	OUTBOUND	INBOUND	OUTBOUND						
INTERSECTION 1: Emmitsburg Road / Allstar Driveway												
EB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0	0
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
WB LEFT	3	3	0%	90%	0%	0%	178	0	0	178	181	181
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0	0
RIGHT	9	10	0%	10%	0%	0%	20	10	0	20	29	30
NB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	136	144	0%	0%	0%	0%	0	0	0	0	136	144
RIGHT	29	31	90%	0%	0%	0%	194	0	0	194	223	225
SB LEFT	18	19	10%	0%	0%	0%	22	0	0	22	40	41
THROUGH	118	125	0%	0%	0%	0%	0	0	0	0	118	125
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
TOTAL	313	332	100%	100%	0%	0%	414	0	0	414	727	748
INTERSECTION 2: Emmitsburg Road / Barlow Greenmount Road												
EB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0	0
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
WB LEFT	9	10	1%	0%	0%	0%	2	0	0	2	11	12
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0	0
RIGHT	6	6	0%	0%	0%	0%	0	0	0	0	6	6
NB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	122	129	0%	9%	0%	0%	18	0	0	18	140	147
RIGHT	17	18	0%	1%	0%	0%	2	0	0	2	19	20
SB LEFT	12	13	0%	0%	0%	0%	0	0	0	0	12	13
THROUGH	91	96	9%	0%	0%	0%	19	0	0	19	110	115
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
TOTAL	257	272	10%	10%	0%	0%	41	0	0	41	298	313
INTERSECTION 3: Emmitsburg Road / Route 15 SB Off Ramp												
EB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0	0
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
WB LEFT	53	56	0%	0%	0%	0%	0	0	0	0	53	56
THROUGH	1	1	0%	0%	0%	0%	0	0	0	0	1	1
RIGHT	33	35	38%	0%	0%	0%	82	0	0	82	115	117
NB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	169	179	52%	0%	0%	0%	112	0	0	112	281	291
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
SB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	113	120	0%	40%	0%	0%	79	0	0	79	192	199
RIGHT	87	92	0%	50%	0%	0%	88	0	0	88	188	191
TOTAL	456	483	90%	90%	0%	0%	372	0	0	372	828	855
INTERSECTION 4: Emmitsburg Road / Route 15 SB (NBL) On Ramp												
EB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0	0
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
WB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0	0
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
NB LEFT	17	18	0%	0%	0%	0%	0	0	0	0	17	18
THROUGH	169	179	52%	0%	0%	0%	112	0	0	112	281	291
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
SB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	146	155	0%	40%	0%	0%	79	0	0	79	225	234
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
TOTAL	332	352	52%	40%	0%	0%	191	0	0	191	523	543
INTERSECTION 5: Emmitsburg Road / Route 15 NB Ramps												
EB LEFT	131	139	50%	0%	0%	0%	108	0	0	108	239	247
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0	0
RIGHT	4	4	0%	0%	0%	0%	0	0	0	0	4	4
WB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0	0
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
NB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	78	81	2%	0%	0%	0%	4	0	0	4	80	85
RIGHT	39	41	0%	0%	0%	0%	0	0	0	0	39	41
SB LEFT	84	88	0%	38%	0%	0%	75	0	0	75	139	143
THROUGH	70	74	0%	2%	0%	0%	4	0	0	4	74	78
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
TOTAL	384	407	52%	40%	0%	0%	191	0	0	191	575	598

SITE IMPACT TRAFFIC EVALUATION

----- GENERAL INFORMATION FOR SITETRIP WORKSHEET -----

Title: Mason Dixon Resorts and Casino
 TRANSPORTATION IMPACT STUDY
 Location: Cumberland Township, Adams County
 Performed By: DJT Date: 01/19/10

Intersection 1: Emmitsburg Road / Allstar Driveway Site A: Casino
 Intersection 2: Emmitsburg Road / Barlow Greenmount Road Site B: (Site)
 Intersection 3: Emmitsburg Road / Route 15 SB Off Ramp Site C: (Site)
 Intersection 4: Emmitsburg Road / Route 15 SB (NBL) On Ramp Site D: (Site)
 Intersection 5: Emmitsburg Road / Route 15 NB Ramps Site E: (Site)
 Intersection 6: 0 Site F: (Site)
 Intersection 7: (STREET NAMES) Design Hour: Sat Peak
 Intersection 8: (STREET NAMES) Design Year: 2012
 Intersection 9: (STREET NAMES) Background Factor: 1.02
 Intersection 10: (STREET NAMES) Seasonal Factor: 1.15
 Intersection 11: (STREET NAMES)
 Intersection 12: (STREET NAMES)

----- EXISTING AND FUTURE TRAFFIC WITHOUT DEVELOPMENT -----

APPROACH	EXISTING TRAFFIC	Existing Traffic Volumes (Seasonal Factored)	FUTURE TRAFFIC W/ COM DEV W/O PRO DEV	Committed Developments		Trucks	Truck Percentage
				PHF	RTOR		
INTERSECTION 1: Emmitsburg Road / Allstar Driveway							
EB LEFT	0	0	0	0.00		0	0%
THROUGH	0	0	0	0.00		0	0%
RIGHT	0	0	0	0.00	0	0	0%
WB LEFT	9	10	10	0.38		0	0%
THROUGH	0	0	0	0.00		0	0%
RIGHT	10	12	12	0.63	0	0	0%
NB LEFT	0	0	0	0.00		0	0%
THROUGH	86	99	101	0.87		0	0%
RIGHT	8	9	9	0.67	0	0	0%
SB LEFT	11	13	13	0.55		0	0%
THROUGH	117	135	137	0.84		1	1%
RIGHT	0	0	0	0.00	0	0	0%
TOTAL	241	278	282				
INTERSECTION 2: Emmitsburg Road / Barlow Greenmount Road							
EB LEFT	0	0	0	0.00		0	0%
THROUGH	0	0	0	0.00		0	0%
RIGHT	0	0	0	0.00	0	0	0%
WB LEFT	20	23	23	0.50		0	0%
THROUGH	0	0	0	0.00		0	0%
RIGHT	8	7	7	0.38	0	0	0%
NB LEFT	0	0	0	0.00		0	0%
THROUGH	95	110	112	0.77		0	0%
RIGHT	13	15	15	0.65	0	0	0%
SB LEFT	5	6	6	0.63		0	0%
THROUGH	102	117	119	0.82		0	0%
RIGHT	0	0	0	0.00	0	0	0%
TOTAL	242	278	282				
INTERSECTION 3: Emmitsburg Road / Route 15 SB Off Ramp							
EB LEFT	0	0	0	0.00		0	0%
THROUGH	0	0	0	0.00		0	0%
RIGHT	0	0	0	0.00	0	0	0%
WB LEFT	22	22	22	0.69		0	0%
THROUGH	0	0	0	0.00		0	0%
RIGHT	75	75	76	0.85	0	0	0%
NB LEFT	0	0	0	0.00		0	0%
THROUGH	125	125	127	0.85		3	2%
RIGHT	0	0	0	0.00	0	0	0%
SB LEFT	0	0	0	0.00		0	0%
THROUGH	75	75	76	0.78		2	3%
RIGHT	72	72	73	0.90	0	0	0%
TOTAL	369	369	374				
INTERSECTION 4: Emmitsburg Road / Route 15 SB (NBL) On Ramp							
EB LEFT	0	0	0	0.00		0	0%
THROUGH	0	0	0	0.00		0	0%
RIGHT	0	0	0	0.00	0	0	0%
WB LEFT	0	0	0	0.00		0	0%
THROUGH	0	0	0	0.00		0	0%
RIGHT	0	0	0	0.00	0	0	0%
NB LEFT	6	6	6	0.50		0	0%
THROUGH	125	125	127	0.85		3	2%
RIGHT	0	0	0	0.00	0	0	0%
SB LEFT	0	0	0	0.00		0	0%
THROUGH	97	97	99	0.78		2	2%
RIGHT	0	0	0	0.00	0	0	0%
TOTAL	228	228	232				
INTERSECTION 5: Emmitsburg Road / Route 15 NB Ramps							
EB LEFT	84	84	85	0.84		4	5%
THROUGH	0	0	0	0.00		0	0%
RIGHT	3	3	3	0.38	0	0	0%
WB LEFT	0	0	0	0.00		0	0%
THROUGH	0	0	0	0.00		0	0%
RIGHT	0	0	0	0.00	0	0	0%
NB LEFT	0	0	0	0.00		0	0%
THROUGH	45	45	46	0.80		1	2%
RIGHT	19	19	19	0.88	0	0	0%
SB LEFT	51	51	52	0.85		0	0%
THROUGH	58	58	57	0.70		0	0%
RIGHT	0	0	0	0.00	0	0	0%
TOTAL	258	258	262				

----- DATA INPUT/RESULTS FOR TRIP GENERATION -----

SITE A	Casino					TOTAL
DESIGN HOUR	Sat Peak					
Land Use Type	(type)	(type)	(type)	(type)	(type)	(type)
Trips Per Unit:						
Inbound	252.00	0.00	0.00	0.00	0.00	0.00
Outbound	216.00	0.00	0.00	0.00	0.00	0.00
Number of Units	1.00	0.00	0.00	0.00	0.00	0.00
Buildout	100%	0%	0%	0%	0%	0%
Pass-By Trips	0%	0%	0%	0%	0%	0%
New Site Trips:						
Inbound	252	0	0	0	0	252
Outbound	216	0	0	0	0	216
Pass-By Trips:						
Inbound	0	0	0	0	0	0
Outbound	0	0	0	0	0	0
Total Site Trips:						
Inbound	252	0	0	0	0	252
Outbound	216	0	0	0	0	216
Total	468	0	0	0	0	468

----- SINGLE SITE TRAFFIC ASSIGNMENT -----

SITE A	Casino											
DESIGN HOUR	Sat Peak											
APPROACH	Existing Traffic Volumes (Seasonal)	FUTURE TRAFFIC W/COM DEV	% NEW SITE TRIPS		% PASS-BY TRIPS		NEW SITE TRIPS	PASS-BY	PASS-BY ADJUSTMEN	TOTAL SITE TRIPS	FUTURE TRAFFIC W/COM DEV	FUTURE TRAFFIC W/COM DEV
		W/O PRO	INBOUND	OUTBOUND	INBOUND	OUTBOUND					W/O PRO	W/PRO DEV
INTERSECTION 1: Emmitsburg Road / Allstar Driveway												
EB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0	0
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
WB LEFT	10	10	0%	90%	0%	0%	194	0	0	194	204	204
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0	0
RIGHT	12	12	0%	10%	0%	0%	22	0	0	22	34	34
NB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	99	101	0%	0%	0%	0%	0	0	0	99	99	101
RIGHT	9	9	90%	0%	0%	0%	227	0	0	227	236	236
SB LEFT	13	13	10%	0%	0%	0%	25	0	0	25	38	38
THROUGH	135	137	0%	0%	0%	0%	0	0	0	135	135	137
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
TOTAL	278	282	100%	100%	0%	0%	468	0	0	468	748	750
INTERSECTION 2: Emmitsburg Road / Barlow Greenmount Road												
EB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0	0
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
WB LEFT	23	23	1%	0%	0%	0%	3	0	0	3	28	28
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0	0
RIGHT	7	7	0%	0%	0%	0%	0	0	0	7	7	7
NB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	110	112	0%	9%	0%	0%	19	0	0	19	129	131
RIGHT	15	15	0%	1%	0%	0%	2	0	0	2	17	17
SB LEFT	6	6	0%	0%	0%	0%	0	0	0	6	6	6
THROUGH	117	119	9%	0%	0%	0%	23	0	0	23	140	142
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
TOTAL	278	282	10%	10%	0%	0%	47	0	0	47	325	329
INTERSECTION 3: Emmitsburg Road / Route 15 SB Off Ramp												
EB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0	0
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
WB LEFT	22	22	0%	0%	0%	0%	0	0	0	0	22	22
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0	0
RIGHT	75	76	38%	0%	0%	0%	96	0	0	96	171	172
NB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	125	127	52%	0%	0%	0%	131	0	0	131	256	258
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
SB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	75	76	0%	40%	0%	0%	86	0	0	86	161	162
RIGHT	72	73	0%	50%	0%	0%	108	0	0	108	180	181
TOTAL	369	374	90%	90%	0%	0%	421	0	0	421	790	795
INTERSECTION 4: Emmitsburg Road / Route 15 SB (NBL) On Ramp												
EB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0	0
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
WB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0	0
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
NB LEFT	6	6	0%	0%	0%	0%	0	0	0	6	6	6
THROUGH	125	127	52%	0%	0%	0%	131	0	0	131	256	258
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
SB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	97	99	0%	40%	0%	0%	86	0	0	86	183	185
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
TOTAL	228	232	52%	40%	0%	0%	217	0	0	217	445	449
INTERSECTION 5: Emmitsburg Road / Route 15 NB Ramps												
EB LEFT	84	85	50%	0%	0%	0%	128	0	0	128	210	211
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0	0
RIGHT	3	3	0%	0%	0%	0%	0	0	0	3	3	3
WB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0	0
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
NB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	45	46	2%	0%	0%	0%	5	0	0	5	50	51
RIGHT	19	19	0%	0%	0%	0%	0	0	0	19	19	19
SB LEFT	51	52	0%	38%	0%	0%	82	0	0	82	133	134
THROUGH	58	57	0%	2%	0%	0%	4	0	0	4	60	61
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
TOTAL	258	262	52%	40%	0%	0%	217	0	0	217	475	479

SITE IMPACT TRAFFIC EVALUATION

----- GENERAL INFORMATION FOR SITETRIP WORKSHEET -----

Title: Mason Dixon Resorts and Casino
 TRANSPORTATION IMPACT STUDY
 Location: Cumberland Township, Adams County
 Performed By: DJT Date: 01/19/10

Intersection 1: Emmitsburg Road / Allstar Driveway Site A: Casino
 Intersection 2: Emmitsburg Road / Barlow Greenmount Road Site B: (Site)
 Intersection 3: Emmitsburg Road / Route 15 SB Off Ramp Site C: (Site)
 Intersection 4: Emmitsburg Road / Route 15 SB (NBL) On Ramp Site D: (Site)
 Intersection 5: Emmitsburg Road / Route 15 NB Ramps Site E: (Site)
 Intersection 6: 0 Site F: (Site)
 Intersection 7: (STREET NAMES) Design Hour: Sat Peak
 Intersection 8: (STREET NAMES) Design Year: 2017
 Intersection 9: (STREET NAMES) Background Factor: 1.06
 Intersection 10: (STREET NAMES) Seasonal Factor: 1.15
 Intersection 11: (STREET NAMES)
 Intersection 12: (STREET NAMES)

----- EXISTING AND FUTURE TRAFFIC WITHOUT DEVELOPMENT -----

APPROACH	EXISTING TRAFFIC	Existing Traffic Volumes (Seasonal Factored)	FUTURE TRAFFIC W/ COM DEV W/O PRO DEV	Committed Developments			
				PHF	RTOR	Trucks	Truck Percentage
INTERSECTION 1: Emmitsburg Road / Allstar Driveway							
EB LEFT	0	0	0	0.00		0	0%
THROUGH	0	0	0	0.00		0	0%
RIGHT	0	0	0	0.00	0	0	0%
WB LEFT	9	10	11	0.38		0	0%
THROUGH	0	0	0	0.00		0	0%
RIGHT	10	12	13	0.63	0	0	0%
NB LEFT	0	0	0	0.00		0	0%
THROUGH	88	99	105	0.67		0	0%
RIGHT	8	9	10	0.67	0	0	0%
SB LEFT	11	13	14	0.55		0	0%
THROUGH	117	135	143	0.84		1	1%
RIGHT	0	0	0	0.00	0	0	0%
TOTAL	241	278	296				
INTERSECTION 2: Emmitsburg Road / Barlow Greenmount Road							
EB LEFT	0	0	0	0.00		0	0%
THROUGH	0	0	0	0.00		0	0%
RIGHT	0	0	0	0.00	0	0	0%
WB LEFT	20	23	24	0.50		0	0%
THROUGH	0	0	0	0.00		0	0%
RIGHT	8	7	7	0.38	0	0	0%
NB LEFT	0	0	0	0.00		0	0%
THROUGH	98	110	117	0.77		0	0%
RIGHT	13	15	18	0.65	0	0	0%
SB LEFT	5	6	6	0.63		0	0%
THROUGH	102	117	124	0.82		0	0%
RIGHT	0	0	0	0.00	0	0	0%
TOTAL	242	278	294				
INTERSECTION 3: Emmitsburg Road / Route 15 SB Off Ramp							
EB LEFT	0	0	0	0.00		0	0%
THROUGH	0	0	0	0.00		0	0%
RIGHT	0	0	0	0.00	0	0	0%
WB LEFT	22	22	23	0.69		0	0%
THROUGH	0	0	0	0.00		0	0%
RIGHT	75	75	80	0.85	0	0	0%
NB LEFT	0	0	0	0.00		0	0%
THROUGH	125	125	133	0.85		3	2%
RIGHT	0	0	0	0.00	0	0	0%
SB LEFT	0	0	0	0.00		0	0%
THROUGH	75	75	80	0.78		2	3%
RIGHT	72	72	76	0.90	0	0	0%
TOTAL	369	369	392				
INTERSECTION 4: Emmitsburg Road / Route 15 SB (NBL) On Ramp							
EB LEFT	0	0	0	0.00		0	0%
THROUGH	0	0	0	0.00		0	0%
RIGHT	0	0	0	0.00	0	0	0%
WB LEFT	0	0	0	0.00		0	0%
THROUGH	0	0	0	0.00		0	0%
RIGHT	0	0	0	0.00	0	0	0%
NB LEFT	6	6	6	0.50		0	0%
THROUGH	125	125	133	0.85		3	2%
RIGHT	0	0	0	0.00	0	0	0%
SB LEFT	0	0	0	0.00		0	0%
THROUGH	97	97	103	0.78		2	2%
RIGHT	0	0	0	0.00	0	0	0%
TOTAL	228	228	242				
INTERSECTION 5: Emmitsburg Road / Route 15 NB Ramps							
EB LEFT	84	84	89	0.84		4	5%
THROUGH	0	0	0	0.00		0	0%
RIGHT	3	3	3	0.38	0	0	0%
WB LEFT	0	0	0	0.00		0	0%
THROUGH	0	0	0	0.00		0	0%
RIGHT	0	0	0	0.00	0	0	0%
NB LEFT	0	0	0	0.00		0	0%
THROUGH	45	45	48	0.80		1	2%
RIGHT	19	19	20	0.68	0	0	0%
SB LEFT	51	51	54	0.85		0	0%
THROUGH	56	56	59	0.70		0	0%
RIGHT	0	0	0	0.00	0	0	0%
TOTAL	258	258	273				

DATA INPUT/RESULTS FOR TRIP GENERATION

SITE A	Casino					TOTAL
DESIGN HOUR	Sat Peak					
Land Use Type	(type)	(type)	(type)	(type)	(type)	(type)
Trips Per Unit:						
Inbound	252.00	0.00	0.00	0.00	0.00	0.00
Outbound	216.00	0.00	0.00	0.00	0.00	0.00
Number of Units	1.00	0.00	0.00	0.00	0.00	0.00
Buildout	100%	0%	0%	0%	0%	0%
Pass-By Trips	0%	0%	0%	0%	0%	0%
New Site Trips:						
Inbound	252	0	0	0	0	252
Outbound	216	0	0	0	0	216
Pass-By Trips:						
Inbound	0	0	0	0	0	0
Outbound	0	0	0	0	0	0
Total Site Trips:						
Inbound	252	0	0	0	0	252
Outbound	216	0	0	0	0	216
Total	468	0	0	0	0	468

SINGLE SITE TRAFFIC ASSIGNMENT

SITE A	Casino											
DESIGN HOUR	Sat Peak											
APPROACH	Existing Traffic Volumes (Sat Peak)	FUTURE TRAFFIC W/ COM DEV W/ O PRO	% NEW SITE TRIPS		% PASS-BY TRIPS		NEW SITE TRIPS	PASS-BY	PASS-BY ADJUSTMENT	TOTAL SITE TRIPS	FUTURE TRAFFIC W/ COM DEV W/ O PRO	FUTURE TRAFFIC W/ COM DEV W/ PRO DEV
			INBOUND	OUTBOUND	INBOUND	OUTBOUND						
INTERSECTION 1: Emmitsburg Road / Allstar Driveway												
EB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0	0
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
WB LEFT	10	11	0%	90%	0%	0%	194	0	0	194	204	205
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0	0
RIGHT	12	13	0%	10%	0%	0%	22	0	0	22	34	35
NB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	99	105	0%	0%	0%	0%	0	0	0	0	99	105
RIGHT	9	10	90%	0%	0%	0%	227	0	0	227	236	237
SB LEFT	13	14	10%	0%	0%	0%	25	0	0	25	38	39
THROUGH	135	143	0%	0%	0%	0%	0	0	0	0	135	143
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
TOTAL	278	296	100%	100%	0%	0%	468	0	0	468	748	764
INTERSECTION 2: Emmitsburg Road / Barlow Greenmount Road												
EB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0	0
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
WB LEFT	23	24	1%	0%	0%	0%	3	0	0	3	26	27
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0	0
RIGHT	7	7	0%	0%	0%	0%	0	0	0	0	7	7
NB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	110	117	0%	9%	0%	0%	19	0	0	19	129	136
RIGHT	15	16	0%	1%	0%	0%	2	0	0	2	17	18
SB LEFT	6	6	0%	0%	0%	0%	0	0	0	0	6	6
THROUGH	117	124	9%	0%	0%	0%	23	0	0	23	140	147
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
TOTAL	278	294	10%	10%	0%	0%	47	0	0	47	325	341
INTERSECTION 3: Emmitsburg Road / Route 15 SB Off Ramp												
EB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0	0
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
WB LEFT	22	23	0%	0%	0%	0%	0	0	0	0	22	23
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0	0
RIGHT	75	80	38%	0%	0%	0%	96	0	0	96	171	178
NB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	125	133	52%	0%	0%	0%	131	0	0	131	256	264
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
SB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	75	80	0%	40%	0%	0%	88	0	0	88	161	168
RIGHT	72	76	0%	50%	0%	0%	108	0	0	108	180	184
TOTAL	369	392	90%	90%	0%	0%	421	0	0	421	790	813
INTERSECTION 4: Emmitsburg Road / Route 15 SB (NBL) On Ramp												
EB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0	0
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
WB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0	0
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
NB LEFT	6	6	0%	0%	0%	0%	0	0	0	0	6	6
THROUGH	125	133	52%	0%	0%	0%	131	0	0	131	256	264
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
SB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	97	103	0%	40%	0%	0%	88	0	0	88	183	189
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
TOTAL	228	242	52%	40%	0%	0%	217	0	0	217	445	459
INTERSECTION 5: Emmitsburg Road / Route 15 NB Ramps												
EB LEFT	84	89	50%	0%	0%	0%	128	0	0	128	210	215
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0	0
RIGHT	3	3	0%	0%	0%	0%	0	0	0	0	3	3
WB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	0	0	0%	0%	0%	0%	0	0	0	0	0	0
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
NB LEFT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
THROUGH	45	48	2%	0%	0%	0%	5	0	0	5	50	53
RIGHT	19	20	0%	0%	0%	0%	0	0	0	0	19	20
SB LEFT	51	54	0%	38%	0%	0%	82	0	0	82	133	136
THROUGH	56	59	0%	2%	0%	0%	4	0	0	4	60	63
RIGHT	0	0	0%	0%	0%	0%	0	0	0	0	0	0
TOTAL	250	273	52%	40%	0%	0%	217	0	0	217	475	490

Marketing Study

MASON-DIXON RESORT & CASINO ESTIMATED ADULTS IN RESIDENTIAL ZONES 1 & 2 - 2014						
Zone	County	State	# of Zip Codes	Populations - 2000		Est. Adult Population 2014
				Total	Adults	
Zone 1:	Adams	PA	10	79,978	56,265	67,399
	York	PA	3	10,588	7,571	9,126
	Franklin	PA	3	35,503	26,225	31,511
	Carroll	MD	2	12,108	8,186	10,025
	Frederick	MD	7	53,412	37,317	48,186
			<u>25</u>	<u>191,589</u>	<u>135,564</u>	<u>166,247</u>
Zone 2:	York	PA	7	196,283	140,365	169,197
	Franklin	PA	4	75,742	54,910	65,978
	Cumberland	PA	5	95,771	67,408	76,289
	Carroll	MD	2	23,544	16,276	19,933
	Frederick	MD	2	41,864	29,849	38,672
			<u>4</u>	<u>93,277</u>	<u>67,423</u>	<u>79,984</u>
			<u>24</u>	<u>526,481</u>	<u>378,331</u>	<u>450,053</u>
Totals			<u>49</u>	<u>718,070</u>	<u>511,895</u>	<u>616,300</u>

Residential Gamers:

Patric. %s	Visits Per Year	M-D Share	Patrons	Percentage Coming on Route 15 from		Patrons Coming on Route 15 from	
				North	South	North	South
30%	12	75%	181,978	80%	10%	163,780	18,198
30%	12	75%	24,641	100%	0%	24,641	0
30%	12	75%	85,081	80%	20%	68,064	17,016
30%	12	75%	27,068	0%	100%	0	27,068
30%	<u>12</u>	75%	<u>130,101</u>	<u>0%</u>	<u>100%</u>	<u>0</u>	<u>130,101</u>
			<u>448,868</u>			<u>256,485</u>	<u>192,383</u>
25%	4	50%	84,599	100%	0%	84,599	0
25%	4	50%	32,969	80%	20%	26,391	6,598
25%	4	50%	38,144	100%	0%	38,144	0
25%	4	50%	9,966	0%	100%	0	9,966
25%	4	50%	19,336	0%	100%	0	19,336
25%	<u>4</u>	50%	<u>39,992</u>	<u>0%</u>	<u>100%</u>	<u>0</u>	<u>39,992</u>
			<u>225,026</u>			<u>149,134</u>	<u>75,892</u>
			<u>673,894</u>			<u>405,619</u>	<u>268,275</u>

"Visitors":

Total gaming "visitors"	93,333
Mason-Dixon guests:	
Occupied rooms	83,191
Adults/occupied room	1.75
Adult guest-nights	145,584
ALOS	2.00
Separate hotel guests	72,792
% gaming	60%
Mason-Dixon separate patrons	43,675
Visits/stay	1.00
Mason-Dixon patrons (on site already)	<u>43,675</u>
Visitors from other hotels (all to the north)	<u>49,658</u>
Summary for stabilized year:	
Coming from the north	455,277
Coming from the south	268,275
Staying at Mason-Dixon/On-site	<u>43,675</u>
Totals	<u>767,227</u>

**TRIP GENERATION
WORKSHEETS**

Trip Generation Worksheets

Trip Generation Characteristics of Small to Medium Sized Casinos

Michael Trueblood, Tara Gude

OVERVIEW

This paper focuses on trip generation for small to medium sized casinos that are not part of a cluster of casinos. The data collection for this paper included three casinos located in Council Bluffs, Iowa. Two of the casinos are riverboat casinos and are located along the Missouri River, while the other casino includes an existing dog racetrack that later added slot machines.

In addition to the casinos located in Council Bluffs, the calculated trip generation rates were compared to rates included in a March 1998 ITE Journal article entitled *Gaming Casino Traffic*. The article calculated trip generation rates for two casinos in the St. Louis metropolitan area, the Casino Queen and the St. Charles Casino.

There is not an overwhelming amount of trip generation information available for casinos located outside of the typical Las Vegas or Atlantic City stereotype. The trip generation characteristics of casinos found in large clusters, like those in Las Vegas for example, are not similar to the casinos that will be covered in this article. For comparison purposes the MGM Grand Casino in Las Vegas has over 5,000 hotel rooms with over 3,500 slot machines, while the Treasure Island Casino has over 2,900 hotel rooms with over 2,000 slot machines. The trip generation characteristics of these casinos are quite different than the five covered in this paper due to their immense size and popularity. Another reason these casinos have different trip generation characteristics is because they are accessible by foot. In Las Vegas people tend to walk to and from the casinos or drive to one and then walk to several others throughout the course of a day.

It should be noted that each state has different rules and regulations that govern the actual type of establishment that can be used for gambling. Recent regulations have changed or have been modified in order to allow gambling facilities to be established beyond the typical riverboat casinos. Examples of these casinos are those operated by Indian Tribes. There are several casinos operated by Indian Tribes across the country. These casinos range in size, but they are good examples of the types of casinos this paper addresses.

LOCATION OF CASINOS

This section will provide a brief overview of the location of the three Council Bluffs casinos and the two casinos located in the St. Louis metropolitan area. The casino locations are shown in Figure 1. The three casinos in Council Bluffs, Iowa are located near the Missouri River in the Omaha metropolitan area. The Ameristar Casino and Harvey's Casino are located along the river within one mile of each other in the northwest quadrant of the I-29/I-80 interchange. Bluffs Run Casino is located about two miles east of these casinos along I-80. For comparison purposes to other casino locations, the 1998 average daily traffic (ADT) along I-29 was 40,500 vehicles, while the 1998 ADT along I-80 was 67,400 vehicles. The estimated 1999 population is 1,040,000 people within a 50-mile radius of the casinos.

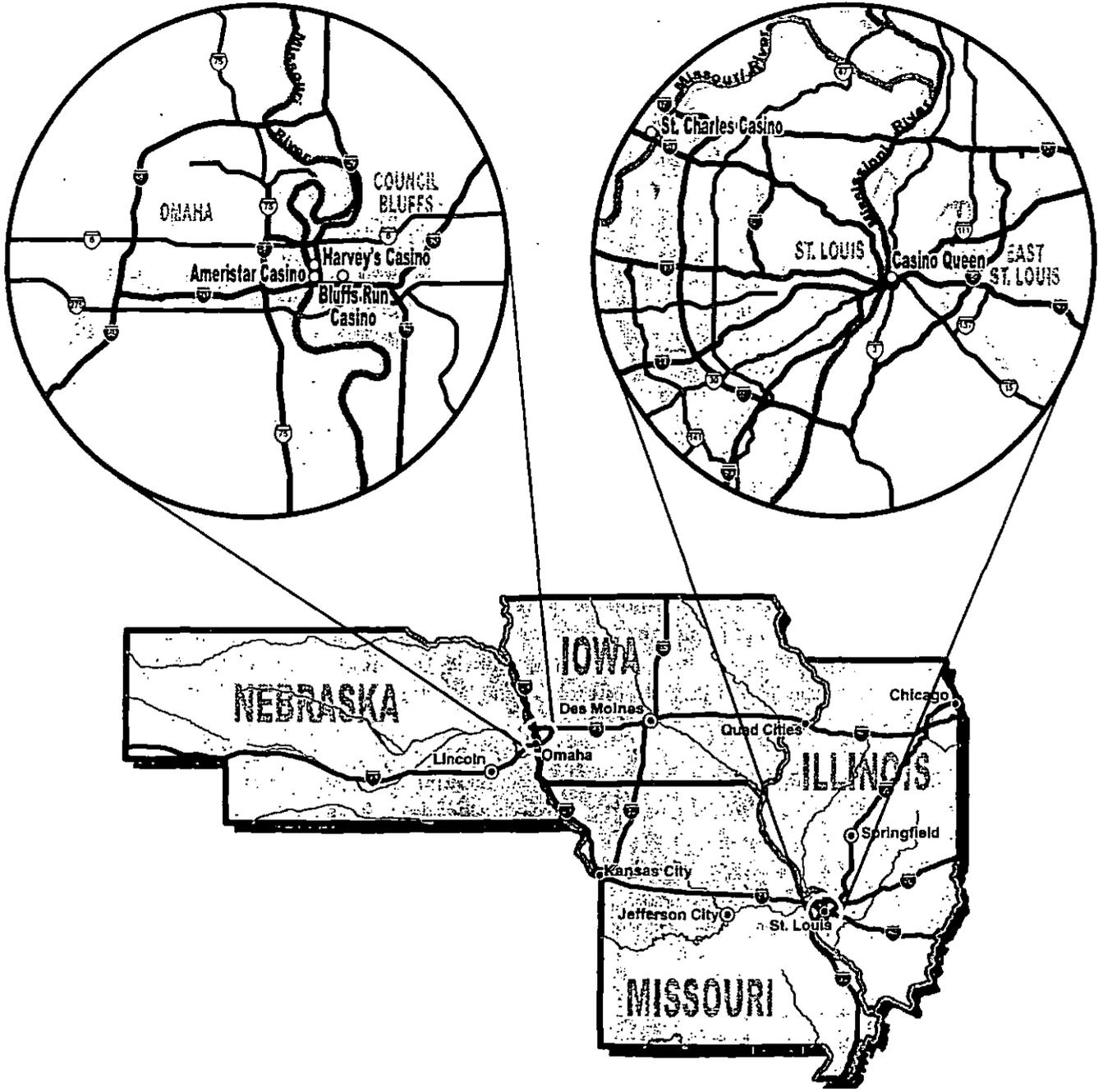


Figure 1 – Casino Location Map

The two St. Louis area casinos are also depicted in Figure 1. The St. Charles Casino is located along the Missouri River immediately north of I-70/Missouri River junction and about five miles to the west of I-270/I-70 junction in the City of St. Charles. The 1998 ADT along I-70 was 188,000 vehicles. The Casino Queen is located along the Mississippi River immediately east of the Gateway Arch and immediately north of the I-70/I-64/I-55 junction in the City of East St. Louis, Illinois. The ADT of these three interstates are 117,300 vehicles. The estimated 1999 population is 2,637,000 people within a 50-mile radius of the St. Louis area casinos.

GAMING REVENUES OF STUDY CASINOS

This section discusses the gaming revenues of the tri-state region where the five casinos presented in this paper are located. Between the years 1994-1999, St. Charles Casino had the second highest attendance of the eleven riverboat casinos within the state of Missouri. During the fiscal year 2000 the eleven riverboat casinos made over \$1.0 billion in adjusted gross revenues (AGRs). In Illinois, the nine riverboat casinos made over \$1.66 billion AGRs in 2000, with the Casino Queen ranked fifth out of the nine riverboats. In Iowa, Harvey's Casino and Ameristar Casino ranked one and two of out ten casinos in AGRs, respectively. The ten casinos in Iowa combined for over \$575 million in AGRs. Casinos within the State of Iowa that also have pari-mutuel wagering are accounted for separately in terms of their AGRs. Bluffs Run Casino was ranked two out of three casinos in AGRs. The three racetrack casinos, as they are called in Iowa, combined for over \$300 million in AGRs in 2000.

TRIP GENERATION CHARACTERISTICS OF STUDY CASINOS

Most of the available information concerning trip generation of casinos is related to large casinos or clusters of several casinos, such as those in Las Vegas. In order to determine the trip generation characteristics of small to medium sized casinos, HDR collected traffic information at three casinos in Council Bluffs, Iowa. Once the trip generation rates were computed, they were compared to trip generation rates of two St. Louis area casinos documented in a March 1998 issue of the ITE Journal.

Table 1 documents the five casinos' characteristics. It should be noted that the information for the Council Bluffs casinos is for the year 2000, while the information for the St. Louis casinos was collected in 1998.

Table 1 – General Casino Information

Amenities	Council Bluffs, Iowa			St. Louis Metro Area	
	Harvey's	Ameristar	Bluffs Run	St. Charles	Casino Queen
Slots	1169	1446	1479	1847	1020
Total Tables	53	51	0	90	51
Gaming sq. ft.	28,250	38,000	34,280	50,000	27,500
Hotel Rooms	251	356	0	<i>Not Applicable</i>	<i>Not Applicable</i>
Employees	1257	1329	1046	<i>Not Available</i>	1079
Pari-mutuel Wagering	No	No	Yes	No	No
Convention Center (seats)	900	170	No	<i>Not Available</i>	<i>Not Available</i>

The data collection for the Council Bluffs casinos was conducted during the following times:

- Ameristar – Saturday, July 15th to Tuesday, July 25th, 2000.
- Harvey's – Thursday, July 20th to Sunday, July 30th, 2000.
- Bluffs Run – Wednesday, July 19th to Saturday, July 29th and Saturday August 19th to Monday August 28th, 2000.

Automatic tube recorders were placed at all entrances and exits to the casinos. Data was collected in fifteen-minute intervals, 24-hours a day for each of the casinos. All five casinos operated on a 24-hour basis. As will be discussed later, the hourly information was unique when compared to other land uses. The following sections provide detailed information on the trip generation characteristics of the three Council Bluffs casinos. These rates were compared to the two St. Louis casinos and since the rates for all five casinos were similar, an average trip generation rate was computed.

Peak Hour Trip Generation Rates

A trip generation rate was calculated based on the number of slot machines that were located at each casino. Generation rates were calculated for both weekdays and weekends. Weekday trip generation rates were calculated for both the peak of facility and peak of adjacent street traffic. Traffic studies for new developments generally analyze the weekday peak hour of adjacent street traffic. However, several types of developments generate higher traffic levels during times other than the adjacent street traffic peak hour. Data from the casinos indicate that their peak trip generation rates are different than the peak hour of adjacent street traffic. Table 2 depicts the average PM peak hour trip generation rates of the five casinos for the peak hour of facility, while Table 3 depicts the average PM peak hour trip generation rate for the adjacent street traffic. The PM peak hour was chosen for purposes of calculating trip generation rates because they were generally higher than the AM peak hour. Tables A1, A2, and A3 located at the end of the paper document the three Iowa casinos daily raw peak hour and time of day data.

Table 2 – Facility Peak Hour Trip Generation

	PM Peak Hour										Average PM Peak Hour Trips	
	Harvey's		Ameristar		Bluffs Run		St. Charles		Casino Queen		In	Out
	In	Out	In	Out	In	Out	In	Out	In	Out		
Monday - Friday	502	380	423	477	537	491	725	625	348	336	507	462
Saturday/Sunday	482	375	624	471	553	579	850	750	Not Available		627	544
	PM Peak Hour Per Slot										Average PM Peak Hour Trips Per Slot	
	Harvey's		Ameristar		Bluffs Run		St. Charles		Casino Queen		In	Out
	In	Out	In	Out	In	Out	In	Out	In	Out		
Monday - Friday	0.43	0.33	0.29	0.33	0.36	0.33	0.39	0.34	0.34	0.33	0.36	0.33
Saturday/Sunday	0.41	0.32	0.43	0.33	0.37	0.39	0.46	0.41	Not Available		0.42	0.36

Note: St. Charles weekday rate is for Friday only.

← used Friday
 ← used Saturday

Table 3 – Adjacent Street Peak Hour Trip Generation

	PM Peak Hour										Average PM Peak Hour Trips	
	Harvey's		Ameristar		Bluffs Run		St. Charles		Casino Queen		In	Out
	In	Out	In	Out	In	Out	In	Out	In	Out		
Monday - Friday	453	340	427	378	442	373	475	600	Not Available		449	423
Saturday/Sunday	423	334	491	413	490	467	Not Available		Not Available		468	404
	PM Peak Hour Per Slot										Average PM Peak Hour Trips Per Slot	
	Harvey's		Ameristar		Bluffs Run		St. Charles		Casino Queen		In	Out
	In	Out	In	Out	In	Out	In	Out	In	Out		
Monday - Friday	0.39	0.29	0.29	0.26	0.30	0.25	0.26	0.32	Not Available		0.31	0.28
Saturday/Sunday	0.36	0.29	0.34	0.29	0.33	0.32	Not Available		Not Available		0.34	0.30

Note: St. Charles weekday rate is for Friday only.

← used Thurs.

The PM peak hour trip generation rates were similar for each of the three Council Bluffs casinos. These rates were found to be comparable to the two St. Louis area casinos' trip generation rates. As shown above in Table 3, there is a correlation between the number of slot machines and the traffic generated by the casinos. For example, the two St. Louis area casinos have a difference in the number of trips generated by the facility. However when the trip generation rates were developed on a per slot machine basis, the rates are quite similar. Even though the St. Charles Casino has 800 slot machines more than the Casino Queen, their trip generation rates are comparable.

HDR's analysis of the five casinos in St. Louis and Council Bluffs found that their average weekday PM peak hour of adjacent street traffic trip generation rate was 0.59 trips per slot machine, while the average weekend PM peak hour trip generation rate was 0.64 trips per slot machine. These rates were close to the weekday and weekend PM peak hour of generator, which were 0.69 trips and 0.78 trips per slot machine, respectively.

The original trip generation rates calculated for the St. Louis area casinos were based on gaming positions. For purposes of this paper the rates provided in the March ITE Journal article were converted to trips per slot machine. This was done in order to directly compare the Council Bluffs and St. Louis trip generation rates. Gaming positions are calculated based on each type of game and are a percentage of the number of slot machines. Thus, calculating the number of gaming positions can get cumbersome. The other reason slot machines were used to calculate trip generation rates was because Bluffs Run Casino does not have table games.

Daily Trip Generation Rates

Table 4 shows the ADTs that were collected for the three Iowa casinos. An average daily trip rate was developed based on information from the three Iowa casinos and from the St. Charles Casino. Not enough information was available in order to include the Casino Queen in these calculations. Table 5 shows the weekday and weekend daily trip rates for each of the four casinos in addition to an average daily trip rate.

Table 4 – Average Daily Traffic (ADT)

Day	Harvey's Daily Volume			Ameristar Daily Volume			Bluffs Run Daily Volume		
	Inbound	Outbound	ADT	Inbound	Outbound	ADT	Inbound	Outbound	ADT
	Volume	Volume		Volume	Volume		Volume	Volume	
Sunday	7,038	6,749	13,787	7,438	8,175	15,613	8,871	8,887	17,758
Monday	5,402	4,745	10,147	5,378	5,394	10,771	6,665	6,741	13,406
Tuesday	9,334	8,496	17,830	6,903	6,761	13,663	7,702	7,180	14,882
Wednesday	6,401	5,221	11,622	5,823	5,730	11,553	7,499	6,827	14,326
Thursday	6,944	5,462	12,406	5,845	5,703	11,548	8,494	7,867	16,361
Friday	8,230	5,938	14,168	8,043	7,460	15,503	9,211	8,441	17,652
Saturday	8,075	7,025	15,100	8,311	8,129	16,440	9,957	9,392	19,349

Table 5 – Average Daily Traffic Rates

	ADT				ADT per slot				Average ADT per slot
	Harvey's	Ameristar	Bluffs Run	St. Charles	Harvey's	Ameristar	Bluffs Run	St. Charles	
Monday - Friday	13,249	12,496	15,325	17,362	11.33	8.64	10.36	9.40	9.93
Saturday/Sunday	14,443	16,026	18,554	19,959	12.36	11.08	12.54	10.81	11.70

Note: St. Charles weekday rate is for Friday only.

The ADT was higher on weekend days compared to weekdays. As shown in Table 4 there was more than a 50% increase in the ADT on weekends at some of the casinos. Another interesting factor that made relatively large increases in ADT was the special promotions that the casinos offer. For example, Harvey's Casino had double points for slot club members on Tuesdays, which generated more traffic than a typical weekend day. Double points allow slot club members to earn extra points that can be redeemed for cash.

Another finding of interest was the amount of traffic that occurs during the late night hours. It was assumed that this was related to the fact that all five casinos evaluated in this paper were located within a metropolitan area and relatively close to an interstate. Table 6 documents the time variation of trips at the three Council Bluffs casinos and the St. Charles Casino. Again, data was not available for Casino Queen.

Table 6 – Casino Related Time Variations of Trips

	Percentage of Traffic during each time period									
	Harvey's		Ameristar		Bluffs Run		St. Charles		Average	
	Weekday	Weekend	Weekday	Weekend	Weekday	Weekend	Weekday	Weekend	Weekday	Weekend
9 AM - 9 PM	64.6	58.4	69.0	61.9	66.1	59.5	65.7	69.5	66.3	62.3
9 PM - 9 AM	35.4	41.6	31.0	38.1	33.9	40.5	34.3	30.5	33.6	37.7
12 AM - 6 AM	10.9	17.9	9.2	16.2	10.9	17.4	13.8	9.0	11.2	15.1
6 AM - 12 PM	21.0	19.6	20.7	17.3	23.1	20.8	15.8	19.0	20.1	19.2
12 PM - 6 PM	34.3	31.2	37.9	32.3	34.7	31.7	34.6	33.6	35.4	32.2
6 PM - 12 AM	33.8	31.3	32.3	34.1	31.3	30.1	35.8	38.4	33.3	33.5

Generally, most land uses do not operate on a 24-hour basis. As a result, roadways located near these casinos tend to have more traffic on them during the late night hours. The daily trip information is important because it captures some of the impacts related to off-peak traffic levels. This could lead to potential concerns of nearby residents or business owners. If the location of a potential casino was proposed near a neighborhood, the future casino could cause lighting, noise, or other environmental concerns. Our data shows some justification to these concerns over late-night traffic. Typically between the hours of 12:00 AM and 6:00 AM most land uses are not in operation and thus do not generate trips. These four casinos, on the other hand, averaged over 15% of their daily trips during these same hours. This could lead to potential complaints by nearby residents or businesses.

SUMMARY

This paper included the trip generation rates of three Iowa casinos and compared their rates to that of two St. Louis casinos included in a March 1998 ITE Journal article. In general, the five casinos had comparable trip generation rates for both weekdays and weekends. These rates could be used when determining the viability of a proposed casino or the expansion of an existing casino. As always, data collected at or near the actual casino site should be used, but if this is not possible, these rates could provide for a relative comparison of whether the nearby roadways could handle the increase in traffic due to the casino.

HDR's analysis of the five casinos found that their average weekday PM peak hour of adjacent street traffic trip generation rate was 0.59 trips per slot machine, while the average weekend PM peak hour trip generation rate was 0.64 trips per slot machine. These rates were close to the weekday and weekend PM peak hour of generator, which were 0.69 trips and 0.78 trips per slot machine, respectively. The average weekday ADT was 9.93 trips per slot, while the weekend average ADT was 11.70 trips per slot.

It should also be noted that these casinos could be considered isolated in terms of walking from one to another. The generation rates of casinos that are found in clusters (Las Vegas) have different characteristics than the casinos studied in this paper. This can be related to the large number and size of casinos located within the clusters and the fact that they are generally located very close to each other. Another important piece of information that should be reviewed is a market analysis. A market analysis could give an estimate of the daily admissions expected at the casino. This could give an indication if these rates are applicable to the proposed casino. As with all land uses, variations in trip generation rates will exist, but knowing what the potential traffic impact could be is better than not having any comparative information.

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Table A1 – Harvey’s Peak Hour Raw Data

Day	Date	AM Peak Hour			PM Peak Hour		
		Time	Inbound Volume	Outbound Volume	Time	Inbound Volume	Outbound Volume
Thursday	7/20/00	11:00	358	209	6:00	458	317
Friday	7/21/00	10:45	323	252	5:00	548	387
Saturday	7/22/00	10:00	285	273	5:30	591	380
Sunday	7/23/00	11:00	433	265	3:30	409	462
Monday	7/24/00	10:45	280	208	4:30	347	279
Tuesday	7/25/00	11:00	562	469	6:00	715	606
Wednesday	7/26/00	10:45	320	203	5:00	440	352
Thursday	7/27/00	11:00	362	263	6:00	493	319
Friday	7/28/00	10:45	412	179	5:30	512	403
Saturday	7/29/00	11:00	304	256	5:00	518	317
Sunday	7/30/00	11:00	345	271	3:15	410	342

Table A2 – Ameristar Peak Hour Raw Data

Day	Date	AM Peak Hour			PM Peak Hour		
		Time	Inbound Volume	Outbound Volume	Time	Inbound Volume	Outbound Volume
Saturday	7/15/00	10:30	363	240	5:30	596	420
Sunday	7/16/00	11:00	379	388	6:00	609	543
Monday	7/17/00	10:45	248	282	3:15	314	435
Tuesday	7/18/00	11:00	430	287	3:00	463	637
Wednesday	7/19/00	10:45	340	230	5:30	429	334
Thursday	7/20/00	10:45	356	228	3:00	349	471
Friday	7/21/00	11:00	364	283	5:45	662	441
Saturday	7/22/00	11:00	370	265	5:45	700	461
Sunday	7/23/00	11:00	409	351	5:45	592	461
Monday	7/24/00	10:45	299	289	3:15	319	462
Tuesday	7/25/00	11:00	458	343	3:00	427	557

Table A3 – Bluffs Run Peak Hour Raw Data

Day	AM Peak Hour			PM Peak Hour		
	Time	Inbound Volume	Outbound Volume	Time	Inbound Volume	Outbound Volume
Monday	11:00	348	420	15:00	443	416
Tuesday	10:45	436	393	15:00	549	513
Wednesday	11:00	417	310	15:00	542	474
Thursday	10:45	425	370	15:30	571	507
Friday	11:00	406	379	15:30	580	544
Saturday	11:00	478	361	16:00	486	635
Sunday	10:15	423	378	15:00	620	523