## INTERSECTION ANALYSIS

US 1 at Turgot Avenue
Section 79010 - M.P. 14.879
Volusia County
Prepared for:

## RIVER TO SEA TRANSPORTATION PLANNING ORGANIZATION

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## EXECUTIVE SUMMARY

Traffic Engineering Data Solutions, Inc. (TEDS) was retained on behalf of the River to Sea Transportation Planning Organization (R2CTPO) to conduct an Intersection Analysis at the intersection of US 1 at Turgot Avenue located in Edgewater (Volusia County), Florida. The intent of the study was to evaluate alternatives to enhance the operation and overall safety of the intersection. Based on the data collected, signal warrant analysis, field observations and engineering judgement, it is recommended that a traffic signal not be installed at the intersection of US 1 and Turgot Avenue for the following reasons:

- The intersection currently operates safely and efficiently under two-way STOP control.
- The installation of a traffic signal would increase intersection delay.
- The installation of a traffic signal would increase the potential for rear-end crashes on US 1 at the intersection.

However, based on additional analysis it is recommended to construct an eastbound right-turn lane at the study intersection. The engineering and construction costs associated with these improvements are estimated at approximately $\$ 110,632$. It should be noted that right of way will be needed in the southwest quadrant of the intersection to construct the proposed improvements. The parcel from which right of way will be needed is owned by the City of Edgewater. Recognizing that Turgot Avenue is a City road, the City of Edgewater will thus need to dedicate a portion of this parcel to become Turgot Avenue right of way.

## 1

## INTRODUCTION

Traffic Engineering Data Solutions, Inc. (TEDS) was retained on behalf of the River to Sea Transportation Planning Organization (R2CTPO) to conduct an Intersection Analysis for US 1 at Turgot Avenue in Edgewater (Volusia County), Florida. The intent of the study was to evaluate alternatives to enhance the operation and overall safety of the intersection as the City expressed concern relative to waves of traffic that pass through the intersection as a result of activities at the nearby YMCA and Hawk's Park recreational complex. A location map of the study intersection is shown below as Figure 1.
The analysis methods used in completing this study are consistent with the Manual on Uniform Traffic Control Devices (MUTCD), Manual on Uniform Traffic Studies (MUTS), and engineering judgment. This report documents existing conditions, vehicle / pedestrian / bicycle counts, crash analysis, qualitative assessment, and recommendations.

## Figure 1

General Location Map US 1 at Turgot Avenue


Source: Bing Maps

## 2

## EXISTING CONDITIONS

US 1 is a north-south arterial that extends through the eastern side of Volusia County, Florida. As shown in Figure 2, at the study intersection US 1 is a four-lane divided arterial. Turgot Avenue is an east-west two-lane undivided roadway extending approximately 0.55 miles. The YMCA/Hawk's Park recreational complex is located approximately 0.24 miles west of the study intersection on the south side of Turgot Avenue and the Edgewater Public School is located approximately 0.30 miles west of the study intersection at the termination of Turgot Avenue. School access is not provided through Turgot Avenue but rather from the north via Ocean Avenue and Old County Road. A large number of cultural and recreational events at the YMCA/Hawk's Park recreational complex occur including team sports and concerts.

Figure 2
General Location Aerial US 1 at Turgot Avenue


Source: Bing Maps

Table 1
Existing Conditions US 1 at Turgot Avenue

| Feature | Description |
| :---: | :---: |
| Main Street | - US 1 |
| Side Street | - Turgot Avenue |
| Area Location | - Edgewater (Volusia County), Florida |
| Adjacent Land Uses | - Southwest: Edgewater Parks and Recreation office <br> - Southeast: All Florida Plumbing \& Electrical Supply <br> - Northwest: Tropical Auto Air <br> - Northeast: Little Caesar's pizza |
| Traffic Control | - Two-way stop control with US 1 having the right-of-way |
| Adjacent Signalized Intersections | - South: Indian River Boulevard (SR 442) - 0.69 miles <br> - North: Park Avenue - 0.77 miles <br> - West: None <br> - East: None |
| US 1 | - Cross Section: 4-lane divided arterial with 4 -foot shoulders (unmarked bicycle lanes) and curb and gutter extending approximately $700^{\prime}$ south and extending over $2,000^{\prime}$ north of the intersection <br> - Access: Class 3 <br> - Posted Speed Limit: 45 mph <br> - AADT: 24,500 vehicles per day (year 2014) <br> - Northbound Approach Lanes: 1 left-turn lane and 2 through lanes <br> - Southbound Approach Lanes: 1 left-turn lane and 2 through lanes <br> - Intersection Alignment: 90-degrees <br> - Pedestrian Crossings: No marked crossings <br> - Sidewalks: Both sides <br> - Utilities: Overhead power lines running on both sides of the road <br> - Street Lighting: On both sides of the road |
| Turgot Avenue | - Cross Section: 2-lane undivided local road; gutter extending approximately 950 ' west of the intersection <br> - Posted Speed Limit: 25 mph <br> - Eastbound Approach Lanes: 1 shared left/through/right-turn lane <br> - Westbound Approach Lanes: 1 shared left/through/right-turn lane <br> - Pedestrian Crossings: Across the eastbound and westbound approaches <br> - Sidewalks: On the north side of the road, west of US 1 <br> - Utilities: Predominantly on the north side of the road west of US 1 ; predominantly on the south side of the road east of US 1 <br> - Street Lighting: One (1) light pole approximately 770' west of US 1 on the north side of the road; one (1) light pole approximately 560' east of US 1 on the south side of the road |



Figure 4 - Eastbound on Turgot Avenue, West of US 1, Looking East


Figure 5 - Turgot Avenue at US 1, Looking West


Figure 6 - Westbound on Turgot Avenue, East of US 1, Looking West


Figure 7 - Turgot Avenue at US 1, Looking East


Figure 8 - Northbound US 1, South of Turgot Avenue, Looking North


Figure 9 - Northbound US 1 at Turgot Avenue, Looking South


Figure 10 - Southbound US 1, North of Turgot Avenue, Looking South


Figure 11 - Southbound US 1 at Turgot Avenue, Looking North


## Traffic Volumes

Twenty-four hour weekday approach counts, included in the Appendix, were conducted at the study intersection on the northbound, southbound, eastbound and westbound approaches. According to these counts, the intersection had a daily traffic volume of 23,921 vehicles that entered the intersection consisting of 926 eastbound vehicles, 215 westbound vehicles; 12,864 northbound vehicles; and 9,916 southbound vehicles.

Based on a review of the twenty-four hour count data, eight (8) hours of manual turning movement counts were collected from 8:00 a.m. to 10:00 a.m., 11:00 a.m. to 1:00 p.m. and from 4:00 p.m. to 8:00 p.m. on a weekday.

- The intersection morning peak hour occurred from 8:00 a.m. to 9:00 a.m. while the afternoon peak hour occurred from 4:30 p.m. to $5: 30$ p.m. As summarized below in Figure 12, 2,052 and 2,506 vehicles were counted entering the intersection during the morning and afternoon peak hours, respectively, with the following characteristics:

Figure 12
Summary of Peak-Hour Turning Movements US 1 at Turgot Avenue


- During the eight (8) hours of manually collected turning movement counts, heavy trucks, which include single unit trucks such as delivery trucks (Class 5 to 7) and tractor-trailer trucks (Class 8 to 15), accounted for approximately 1.1\% (184 vehicles) of the traffic passing through the US 1/Turgot Avenue intersection. Of these 184 heavy trucks, 10 heavy trucks travelled on Turgot Avenue over the eight (8) hours.
- As summarized below in Figure 13, twenty (20) pedestrians and 42 bicyclists were observed traversing the intersection during the eight (8) hours of manually collected turning movement counts. A Pedestrian Movement Summary and a Bicycle Movement Summary are provided in the Appendix.

Figure 13
Summary of Pedestrian and Bicycle Movements (8-hours)
US 1 at Turgot Avenue


- Over the 8-hour turning movement count there were five (5) pedestrians and 11 bicyclists that crossed US 1 in the vicinity of the study intersection. Per FDOT's Traffic Engineering Manual, the pedestrian/bicyclist demand needs to exceed either 20 in a single hour or 60 over four hours for a mid-block crosswalk to be considered.


## Collision Data

Crash data for the study intersection for a 60-month period (January 1, 2010 to December 31, 2014) was obtained from the University of Florida's Signal Four Analytics. Ten (10) crashes were reported and consisted of the following crash types:
o Two (2) angle;
o Two (2) bicycle;
o Two (2) fixed-object;
o Two (2) rear-end;
o One (1) left-turn; and,
o One (1) right-turn.

- The crashes resulted in zero (0) fatalities, five (5) injuries, and $\$ 42,550$ in estimated property damage.
- Seven (7) of the crashes occurred during the day and the remaining three (3) occurred at night.
- All ten (10) crashes occurred under dry pavement conditions.
- Two (2) angle crashes occurred as summarized below:
o A westbound left-turn vehicle failed to yield the right of way, striking a southbound vehicle during the night on dry pavement
o An eastbound left-turn vehicle failed to yield the right of way, striking a southbound vehicle during the day on dry pavement
- Two (2) bicycle crashes occurred as summarized below:
o A northbound bicyclist traveling on the west side of US 1, struck an eastbound vehicle that was stopped at the study intersection
o A northbound bicyclist traveling on the west side of US 1, was struck by an eastbound right-turn vehicle
- When considering Warrant 7 of a signal warrant analysis, zero (0) crashes that are susceptible to correction by the installation of a traffic signal occurred within the most recent 12-month period between January 1, 2014 and December 31, 2014.
A detailed collision summary featuring the crashes is provided in Table 2 and graphically depicted in Figure 14.

Table 2
Collision Summary
US 1 at Turgot Avenue

| COLLISION S UMMARY |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Section: | 79100 |  |  |  |  |  | US 1 |  |  | County: Volusia |  |  |  |
| Intersecting r | oute: | Turgot |  |  |  | Milepost: | 14.879 |  |  | Data by: VP |  |  |  |
| Study period: |  | 1/1/2010 | to | 12/31/2 | 2014 |  |  |  |  | Date: | 9/28/20 |  |  |
| NO. | DATE | DAY | TIME | FATAL | INJURY | PROPERTY DAMAGE | HARMFUL EVENT | DUI | DAY / <br> NIGHT | WET / DRY |  | NTRIBUT | VG CAUSE |
| 1 | 02/01/10 | Monday | 10:51 | 0 | 0 | \$6,000 | Right-turn | N | Day | Dry |  | Blocked | vision |
| 2 | 03/05/10 | Friday | 0:58 | 0 | 0 | \$10,000 | Fixed-Object | Y | Night | Dry |  | DU |  |
| 3 | 04/06/11 | Wednesday | 16:09 | 0 | 1 | \$4,000 | Rear-End | N | Day | Dry |  | Careless | Driving |
| 4 | 04/29/11 | Friday | 14:40 | 0 | 1 | \$0 | Bicycle | N | Day | Dry |  | Bicyclist F | YRW |
| 5 | 05/13/11 | Friday | 8:45 | 0 | 0 | \$4,000 | Left-Turn | N | Day | Dry |  | FTYR |  |
| 6 | 07/18/11 | Monday | 20:06 | 0 | 1 | \$4,500 | Angle | N | Night | Dry |  | FTYR |  |
| 7 | 03/06/12 | Tuesday | 13:09 | 0 | 1 | \$5,000 | Rear-End | N | Day | Dry |  | Careless | Driving |
| 8 | 02/06/13 | Wednesday | 14:22 | 0 | 1 | \$50 | Bicycle | N | Day | Dry |  | Bicyclist F | YRW |
| 9 | 02/23/13 | Saturday | 0:16 | 0 | 0 | \$8,000 | Fixed-Object | N | Night | Dry |  | Fell As |  |
| 10 | 10/04/13 | Friday | 8:49 | 0 | 0 | \$1,000 | Angle | N | Day | Dry |  | FTYR |  |
| TOTAL |  |  |  | 0 | 5 | \$42,550 |  |  |  |  |  |  |  |
| TOTAL NO. | Fatal | Injury | Property Damage Only |  | Left-Turn | Rear-End | Bicycle | Fixed-Object |  | Angle | SideSwipe | Off-road | Right-turn |
| 10 | 0 | 5 | 5 |  | 1 | 2 | 2 |  | 2 | 2 | 0 | 0 | 1 |
| Percent | 0\% | 50\% | 50\% |  | 10\% | 20\% | 20\% |  | 20\% | 20\% | 0\% | 0\% | 10\% |
| CONTRIB- | Day | Night | Pavement Condition |  |  | ImproperLane Change | Careless <br> Driving | Bicyclist FTYRW |  | FTYRW | DUI | Fell <br> Asleep | Blocked vision |
| CAUSE |  |  | Wet | Dry | ? |  |  |  |  |  |  |  |  |
| Total | 7 | 3 | 0 | 10 | 0 | 0 | 2 |  | 2 | 3 | 1 | 1 | 1 |
| Percent | 70\% | 30\% | 0\% | 100\% | 0\% | 0\% | 20\% |  | 20\% | 30\% | 10\% | 10\% | 10\% |

Source: University of Florida's Signal Four Analytics


## Intersection Delay

Intersection delay studies were performed for the northbound left-turn movement on US 1 as well as the eastbound approach on Turgot Avenue. Procedures from the Manual on Uniform Traffic Studies (MUTS) were applied to determine the summarized results presented in Table 3.

Table 3
Summary of Delay Studies US 1 at Turgot Avenue

|  | Time | Maximum <br> Queue <br> (Veh) | Average <br> Delay per <br> Vehicle <br> (Sec) | Volume <br> (Veh/Hr) | Total Delay <br> (Veh-Sec) | Total <br> Delay <br> (Veh-Hr) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Northbound Left- <br> Turn | $8: 00-9: 00 \mathrm{AM}$ | 2 | 8.1 | 51 | 415 | 0.12 |
|  | $12: 00-1: 00 \mathrm{PM}$ | 4 | 13.3 | 30 | 399 | 0.12 |
|  | $7: 00-8: 00 \mathrm{PM}$ | 2 | 9.8 | 29 | 285 | 0.09 |
| Eastbound <br> Approach | $8: 00-9: 00 \mathrm{AM}$ | 2 | 15.5 | 39 | 606 | 0.19 |
|  | $12: 00-1: 00 \mathrm{PM}$ | 4 | 22.5 | 54 | 1214 | 0.34 |
|  | $7: 00-8: 00 \mathrm{PM}$ | 8 | 21.7 | 135 | 2929 | 0.80 |

Generally, an average delay in excess of 60 seconds is considered excessive at an unsignalized intersection and what could typically be expected if the intersection were signalized. As shown in Table 3, the average delay for the northbound left-turn movement ranged from 8.1 seconds per vehicle to 13.3 seconds per vehicle and the average delay for the eastbound approach ranged from 15.5 seconds per vehicle to 22.5 seconds per vehicle. This level of delay is less than could be expected if the intersection was signalized.

## 3 <br> QUALITATIVE ASSESSMENT

The intersection of US 1 at Turgot Avenue was observed during the peak hours by a registered professional engineer to assess existing operating conditions and to determine if installing a traffic signal would be potentially beneficial.

## Operations:

Based on discussions with Jack Corder of the City of Edgewater's Parks and Recreation Department, there is a concern regarding the intersection at certain times when events/activities have ended and vehicles are leaving the YMCA and Hawk's Park in waves. Of particular note were exiting peaks during the afternoon peak hours as well as during late mornings/early afternoons on the weekends.

- This study focused on the peak hours during the weekday as that is a time that represents the combined impacts of peak exiting times of the YMCA/Hawk's Park and PM peak volumes on US 1.
- Based on the 24-hour approach counts, 8-hour turning movement counts, the 3-hour delay study, and field observations, all of which occurred on four (4) separate days, the peak exiting time from the YMCA/Hawk's Park occurred consistently between 7:00 to 8:00 PM.

Mr. Corder also indicated that a crash had recently occurred nearby the study intersection on US 1, involving a person in a wheelchair that was struck by a vehicle while they crossed US 1. Mr. Corder expressed a desire to have a crosswalk across US 1 at a location along the corridor. However, based on the low pedestrian/bicyclist volume crossing US 1 at the study intersection, field observations, and that there is no trend of bicycle/pedestrian crashes, a midblock crosswalk is not recommended at the study intersection.
Observations: The following observations were made with respect to the operations of the study intersection:
General observations:

- Northbound and southbound traffic had frequent and large gaps during both the morning and afternoon peak hours.
- Two (2) bicyclists and one (1) pedestrian were observed traveling along the west side of US 1 during the morning peak hour, and three (3) bicyclists were observed traveling along the west side of US 1 during the afternoon peak hour.
- Eastbound and westbound motorists consistently waited for acceptable gaps to turn onto US 1.
- Sight distance is adequate for all motorists traveling in all directions.
- One (1) westbound left-turning vehicle was observed to turn using a two-stage maneuver to enter US 1, first by stopping at the Turgot Avenue stop line and then staging in the median opening prior to turning onto southbound US 1.


## Eastbound approach:

- The PM peak-hour at the intersection was from 4:30 to 5:30 PM. The eastbound approaching volume during this same time period is considerably lower (3 to 4 times less) than between 7:00 to 8:00 PM. As a result of this lower volume, eastbound approaching vehicles had no issue turning onto/off of Turgot Avenue.
- Eastbound left-turning movements were predominantly completed using a twostage maneuver to enter US 1, first by stopping at the Turgot Avenue stop line and then staging in the median opening prior to turning onto northbound US 1. No conflicts or evasive maneuvers were observed.
- The maximum queue for the eastbound left-turn movement was four (4) vehicles during the morning peak hour and fifteen (15) vehicles during the evening (7:00 p.m. to 8:00 p.m.). This queue occurred at a time when activities and events ended at the YMCA/Hawk's Park as there was a clear wave of traffic that arrived at the intersection in a 30-minute interval. The evening queue dissipated relatively quickly without any conflicts or evasive maneuvers.
- Several motorists were observed to roll through the eastbound approach stop line, recognizing an immediate available gap, before performing an eastbound left-turn. No conflicts or evasive maneuvers were observed.
- One eastbound left-turn vehicle, crawling into the intersection, stopped suddenly in the outside southbound lane to yield the right of way to a northbound left-turn vehicle. No conflicts or evasive maneuvers were observed as there was no southbound approaching traffic at the time.
- The median opening is approximately 20 feet wide; however one (1) vehicle (pickup truck) was observed to stick out onto the southbound lanes by approximately two (2) feet when performing an eastbound left-turn. No conflicts or evasive maneuvers were observed.
Northbound left-turn movement:
- Northbound left-turning vehicles were observed turning without conflict and without excessive delay as there were adequate gaps available in southbound traffic.
- The maximum queue for the northbound left-turn movement was one (1) vehicle during the morning peak hour and two (2) vehicles during the afternoon peak hour.


## Safety:

In addition to the collision analysis, the following observations were made with respect to the safety of the study intersection:

- No signs of skid marks, broken glass, plastic, or other indication of a crash were observed at the intersection.


## Maintenance:

During the field reviews the condition of the study intersection's asphalt, striping, signing and lighting were observed. The following are observations related to the maintenance of the intersection based on the various field reviews of the intersection:

- The signs, pavement markings, and pavement conditions at the intersection of US 1 and Turgot Avenue are in good condition.


## 4

## IMPROVEMENT ALTERNATIVES

## Signal Warrant Analysis:

The intent of the study was to evaluate alternatives to enhance the overall safety and operations of the intersection of US 1 at Turgot Avenue. One of the alternatives evaluated was the installation of a traffic signal in order to reduce intersection delay, queue lengths and reduce angle/left-turn crashes.

The traffic volumes, geometric conditions, and crash data at the intersection were analyzed, summarized, and then compared with the applicable factors in warrants for the installation of a traffic signal contained within the Manual on Uniform Traffic Control Devices (MUTCD 2009) and Manual on Uniform Traffic Studies (MUTS). A traffic signal may be installed if one or more of the warrants are satisfied. Nine (9) traffic signal warrants exist, and are detailed in Table 4 as follows:

Table 4
Explanation of the Nine Signal Warrants US 1 at Turgot Avenue

| Warran |  | Notes |
| :---: | :---: | :---: |
| 1A | Minimum Vehicular Volume | This warrant is intended for application at locations where a large volume of intersecting traffic is the principal reason to consider installing a traffic control signal. |
| 1B | Interruption of Continuous Traffic | This warrant is intended for application at locations where Condition A is not satisfied and where the traffic volume on a major street is so heavy that traffic on a minor intersecting street suffers excessive delay or conflict in entering or crossing the major street. |
| 2 | Four Hour Vehicular Volume | This warrant is intended to be applied where the volume of intersecting traffic is the principal reason to consider installing a traffic control signal. |
| 3A | Peak Hour Delay | This warrant is intended for use at a location where traffic conditions are such that for a minimum of 1 hour of an average day, the minor-street traffic suffers undue delay when entering or crossing the major street. |
| 3B | Peak Hour Volume | This warrant is intenteded for use at a location wheere an unusual traffic generator (factory entrance/exit) exists near the study intersection. |
| 4 | Pedestrian Volume | This warrant is intended for application where the traffic volume on a major street is so heavy that pedestrians experience excessive delay in crossing the major street. |
| 5 | School Crossing | This warrant is intended for application where the fact that school children cross the major street is the principal reason to consider installing a traffic control signal. |
| 6 | Coordinated Signal System | Progressive movement in a coordinated signal system sometimes necessitates installing traffic control signals at intersections where they would not otherwise be needed in order to maintain proper platooning of vehicles. |
| 7 | Crash Experience | This warrant is intended for application where the severity and frequency of crashes are the principal reasons to consider installing a traffic control signal. |
| 8 | Roadway Network | Installing a traffic control signal at some intersections might be justified to encourage concentration and organization of traffic flow on a roadway network. |
| 9 | Railroad Crossing | This warrant is intended for use where the proximity to the intersection of a grade crossing on an intersection approach controlled by a STOP or YIELD sign is the principal reason to consider installing a traffic control signal. |

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal. A traffic control signal should not be installed if the signal will disrupt progressive traffic flow or unless an engineering study, which based on collected data, signal warrant analysis, field observations and engineering judgement, indicates that installing a traffic control signal will improve the overall safety and/or operation of the intersection.

Upon conducting the Signal Warrant Analysis, the eastbound approach on Turgot Avenue was used as the minor street and the northbound/southbound approaches of US 1 were used as the major street. The minor street was treated as a one-lane approach in the warrant analysis comprising of the eastbound left-turn, through and right-turn movements. For the purposes of the warrant analysis, the major street was treated as a two-lane approach. Based on the critical speed of 45 mph on US 1, the $70 \%$ volume criteria were applied to the analysis, which may be used in place of the 100\% traffic volumes if the posted speed limit exceeds 40 mph . The 70\% traffic volumes are used to determine the minimum volume requirements necessary to satisfy Warrants 1, 2 and 3 as shown in the respective worksheets.
When considering crash history for the signal warrant analysis, the 12-month period from January 1, 2014 to December 31, 2014 was evaluated in order to identify crashes that were susceptible to correction by the installation of a traffic signal.
Warrant 2 (Four-Hour Vehicular Volume) was met for consideration of a traffic signal at the intersection of US 1 and Turgot Avenue. The volume of intersecting traffic from Turgot Avenue ( 734 vehicles) is only $4.6 \%$ of the total intersection traffic ( 15,775 vehicles). Based on collected data, field observations and engineering judgement the installation of a traffic signal is not recommended because the intersection currently operates safely and efficiently under two-way STOP control, and the installation of a traffic signal would increase intersection delay and the potential for rear-end crashes on US 1 at the intersection. The signal warrant analysis worksheets for the intersection of US 1 and Turgot Avenue are provided starting on page 20. Table 5 summarizes the results of the warrant analysis.

Table 5
Signal Warrant Analysis Summary US 1 at Turgot Avenue

| Warra |  | Applicable | Satisfied | Comments |
| :---: | :---: | :---: | :---: | :---: |
| 1A | Minimum Vehicular Volume | Yes | No | The minor street traffic volumes meet the $70 \%$ requirements of this warrant for one (1) of the eight (8) hours. |
| 1B | Interruption of Continuous Traffic | No | N/A | Minor street motorists do not experience excessive delay of over 60 seconds. Minor street traffic volumes meet the $70 \%$ requirements for this warrant for five (5) of eight (8) hours. |
| 2 | Four Hour Vehicular Volume | Yes | Yes | The minor street traffic volumes meet the $70 \%$ requirements of this warrant for four (4) hours. |
| 3A | Peak Hour Delay | No | N/A | This warrant is not applicable as vehicles were not observed to experience excessive delay of over 60 seconds. One (1) hour meets the $70 \%$ requirements of this warrant. |
| 3B | Peak Hour Volume | No | N/A | This warrant is not applicable as no unusual traffic generator exists near the study intersection. |
| 4 | Pedestrian Volume | Yes | No | This warrant is not met because pedestrian volumes are well below the requirements for this warrant. |
| 5 | School Crossing | No | N/A | This warrant is not applicable as no school zone exists at the intersection. |
| 6 | Coordinated Signal System | No | N/A | This warrant is not applicable as this intersection is not within a coordinated signal system. |
| 7 | Crash Experience | Yes | No | Zero (0) crashes within a 12-month period are susceptible to correction by a traffic signal. |
| 8 | Roadway Network | No | N/A | This warrant is not applicable as this intersection is not considered to be part of a coordinated network. |
| 9 | Railroad Crossing | No | N/A | This warrant is not applicable as there is no railroad crossing near the study intersection. |



Source: Revised from NCHRP Report 457


## TRAFFIC SIGNAL WARRANT SUMMARY

| City: | Edgewater |
| ---: | :--- |
| County: |  |

Major Street: US 1
Minor Street: Turgot Avenue

| Engineer: | CW |
| ---: | :--- |
| Date | October 27,2015 |
| Lanes: $\frac{\mathbf{2}}{}$ Critical Approach Speed: $\mathbf{4 5}$ |  |
| Lanes: $\frac{1}{}$ |  |

## Volume Level Criteria

1. Is the critical speed of major street traffic $>70 \mathrm{~km} / \mathrm{h}(40 \mathrm{mph})$ ?
$\square$ Yes $\square$ No
2. Is the intersection in a built-up area of isolated community of $<10,000$ population?
$\square$ Yes ■ No
If Question 1 or 2 above is answered "Yes", then use " $70 \%$ " volume level
■ $70 \%$
$\square 100 \%$
WARRANT 3 - PEAK HOUR
Applicable:
$\square$ Yes

- No
If all three criteria are fullfilled or any of the plotted points lie above the appropriate line, Satisfied:
■ Yes
$\square$ No
then the warrant is satisfed.
Unusual condition justifying use of warrant:


## None

 and the corresponding delay or volume in boxes provided.

| Warranting Volumes |  |  | Oì | 융 |
| :---: | :---: | :---: | :---: | :---: |
| 800 | 1,969 | 72 |  |  |
| 900 | 1,653 | 64 |  |  |
| 1100 | 1,977 | 52 |  |  |
| 1200 | 1,923 | 52 |  |  |
| 1600 | 2,419 | 42 |  |  |
| 1700 | 2,324 | 53 |  |  |
| 1800 | 2,045 | 67 |  |  |
| 1900 | 1,465 | 213 | $\square$ | $\square$ |


| 1. Delay on Minor Approach *(vehicle-hours) |  |  |
| :---: | :---: | :---: |
| Approach Lanes | 1 | 2 |
| Delay Criteria* | 4.0 | 5.0 |
| Delay* | 0.8 | 0.0 |
| Fulfilled?: $\square$ Yes $\quad$ No |  |  |
| 2. Volume on Minor Approach *(vehicles per hour) |  |  |
| Approach Lanes | 1 | 2 |
| Volume Criteria* | 100 | 150 |
| Volume* | 213 | 0 |
| Fulfilled?: ■ Yes $\square$ No |  |  |
| 3. Total Entering Volume *(vehicles per hour) |  |  |
| No. of Approaches | 3 | 4 |
| Volume Criteria* | 650 | 800 |
| Volume* | 0 | 2,506 |
| Fulfilled?: $\quad$ Yes $\square$ No |  |  |



Source: Revised from NCHRP Report 457

## TRAFFIC SIGNAL WARRANT SUMMARY



| Criteria |  |  |  | Fulfilled? |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Yes | No |
| 1. There are a minimum of 20 students crossing the major street during the highest crossing hour. | Students: <br> 0 | Hour: | 0 |  | $\square$ |
| 2. There are few er adequate gaps in the major street traffic stream during the period when the children are using the crossing than the number of minutes in the same perid |  | Minutes: $0$ | Gaps: <br> 0 |  | $\square$ |
| 3. The nearest traffic signal along the major street is located more than $90 \mathrm{~m}(300 \mathrm{ft})$ aw ay, or the nearest signal is within $90 \mathrm{~m}(300 \mathrm{ft})$ but the proposed traffic signal will not restrict the progressive movement of traffic. |  |  |  | $\square$ |  |

## WARRANT 6 - COORDINATED SIGNAL SYSTEM

Indicate if the criteria are fulfilled in the boxes provided. The warrant is
satisfied if either criterion is fulfilled. This warrant should not be applied when the resulting signal spacing would be less than 300 m (1,000 ft).

| Criteria | Fulfilled? |  |
| :---: | :---: | :---: |
|  | Yes | No |
| 1. On a one-w ay street or a street that has traffic predominately in one direction, the adjacent signals are so far apart that they do not provide the necessary degree of vehicle platooning. |  | $\square$ |
| 2. On a two-w ay street, adjacent signals do not provide the necessary degree of platooning, and the proposed and adjacent signals will collectively provide a progressive operation. |  | $\square$ |



Source: Revised from NCHRP Report 457

## TRAFFIC SIGNAL WARRANT SUMMARY



Major Street: US 1
Minor Street: Turgot Avenue
Engineer:
Date: $\quad$ CW

Number of Minor Street Approach Lanes
Crossing RXR Tracks:
Clear Storage Distance (D) feet: $\quad \square$

## Applicability Criteria

| Is there a railroad grade crossing in the proximity of the intersection? | $\square$ Yes | $\square$ |
| :--- | :--- | :--- |
| None of the conditions described in the other eight traffic signal warrants are met. | $\square$ Yes | No |

Adequate consideration has been given to other alternatives or a trial of an alternative has failed to alleviate the safety concerns associated with the grade crossing. Among the alternatives that were considered or tried are:
A. Providing additional pavement that would enable vehicles to clear the track or that would provide space for an evasive maneuver, or
B. Reassigning the stop controls at the intersection to make the approach across the track a nonstopping approach.

Warrant Applicable:

| $\square$ Yes | $\square$ No |
| :--- | :--- |
| $\square$ Yes | $\square$ No |

## WARRANT 9 - INTERSECTION NEAR A GRADE CROSSING

If there is a railroad grade crossing on an approach controlled by a STOP or YIELD sign and the center of the track nearest the intersection is within 140 feet of the stop line or yield line on the approach, and any point lies above the appropriate line, then the warrant is satisfied.

| Warranting Volumes |  |  | Met |  |
| :---: | :---: | :---: | :---: | :---: |
| Hour | Major <br> Street | Minor St. <br> Equiv. | Z <br> $\sim$ | Z |
| 700 |  |  |  |  |
| 800 |  |  |  |  |
| 900 |  |  |  |  |
| 1100 |  |  |  |  |
| 1400 |  |  |  |  |
| 1500 |  |  |  |  |
| 1600 |  |  |  |  |
| 1700 |  |  |  |  |




Source: 2009 MUTCD

## Eastbound Right-turn Lane:

Another alternative evaluated to enhance the overall safety and operations of the intersection of US 1 at Turgot Avenue was the installation of an eastbound right-turn lane. During the evening peak hour from 7:00 p.m. to 8:00 p.m. at the eastbound approach, fifteen (15) vehicles were observed to be in queue, and an average delay of 21.7 seconds and a maximum delay of 93 seconds were recorded. A Highway Capacity Software (HCS) 2010 analysis was conducted for the existing study intersection and the study intersection with the proposed eastbound rightturn lane. A comparison of the eastbound approach delays for the study intersection with the existing geometry and with the proposed eastbound right-turn lane, during the time periods of 8:00 a.m. to 9:00 a.m., 12:00 p.m. to 1:00 p.m. and 7:00 p.m. to 8:00 p.m., is shown in Table 5 below.

Table 5
Eastbound Approach Delay Comparisons US 1 at Turgot Avenue

| Time | Eastbound Approach Delay <br> with Existing Geometry <br> (sec/veh) | Eastbound Approach Delay <br> with Eastbound Right-Turn <br> Lane (sec/veh) |
| :---: | :---: | :---: |
| 8:00-9:00 AM | 29.2 | 23.9 |
| 12:00-1:00 PM | 21.6 | 20.0 |
| 7:00-8:00 PM | 75.6 | 29.3 |

The installation of an eastbound right-turn lane would therefore reduce delay at the eastbound approach of the study intersection. HCS 2010 results reports are attached in the Appendix.
An improvement concept was developed for the US $1 / T u r g o t$ Avenue intersection with the additional eastbound right-turn lane (see Figure 15). Based on the HCS analyses as attached, the maximum 95th percentile queue for the eastbound right-turn movement is projected to be less than two vehicles while the maximum queue for the eastbound left-turn movement is approximately four vehicles. Thus, a turn-lane length of 200 feet will adequately accommodate the projected queues. Details of the proposed improvement are provided below:

- Remove existing drop curb and construct an 11-foot wide, 200-foot long eastbound right-turn lane
- Relocate sign(s)
- Install pavement markings with directional arrows
- Reconstruct curb ramp on the southwest corner of the intersection
- Install a detectable warning surface on the southwest corner of the intersection
- Restripe stop bars
- Modify the existing ditch bottom inlet with a new concrete apron to receive runoff from the proposed drop curb
- Adjust the fire hydrant west of the study intersection on the south side of Turgot Avenue
- Reconstruct approximately 25 linear feet of the existing eastbound lane to ensure positive drainage
- Remove an existing curb inlet and construct a new curb inlet with j-bottom on radius return to receive existing 15" CMP. Adjust the guy wires on the overhead utility poles as necessary
- Adjust a manhole to grade west of the study intersection on the south side of Turgot Avenue
- Rebuild the City of Edgewater Park and Recreation office's driveway

The overall improvement costs were estimated based on FDOT historical unit prices. The total cost of the improvements, including engineering and CEI, is estimated at approximately $\$ 110,632$ and is provided in Table 6. It should be noted that right of way will be needed in the southwest quadrant of the intersection to construct the proposed improvements. The parcel from which right of way will be needed (parcel number 33-17-34-07-02-0010) is owned by the City of Edgewater. Recognizing that Turgot Avenue is a City road, the City of Edgewater will thus need to dedicate a portion of this parcel to become Turgot Avenue right of way.



## 5

## CONCLUSION

Based on the data collected, signal warrant analysis, field observations and engineering judgement, it is recommended that a traffic signal not be installed at the intersection of US 1 and Turgot Avenue in Edgewater (Volusia County), Florida for the following reasons:

- The intersection currently operates safely and efficiently under two-way STOP control.
- The installation of a traffic signal would increase intersection delay.
- The installation of a traffic signal would increase the potential for rear-end crashes on US 1 at the intersection.

However, based on additional analysis it is recommended to construct an eastbound right-turn lane at the study intersection, as depicted in Figure 15. The engineering and construction costs associated with these improvements are estimated at approximately $\$ 110,632$. It should be noted that right of way will be needed in the southwest quadrant of the intersection to construct the proposed improvements. The parcel from which right of way will be needed is owned by the City of Edgewater. Recognizing that Turgot Avenue is a City road, the City of Edgewater will thus need to dedicate a portion of this parcel to become Turgot Avenue right of way.

## APPENDIX



US 1 \& Turgot Avenue
24 Hour Approach Counts

| TIME | North | South | East | West | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1:00 | 43 | 48 | 1 | 1 | 93 |
| 2:00 | 30 | 26 | 4 | 2 | 62 |
| 3:00 | 24 | 23 | 1 | 0 | 48 |
| 4:00 | 47 | 34 | 3 | 1 | 85 |
| 5:00 | 84 | 65 | 2 | 0 | 151 |
| 6:00 | 190 | 104 | 6 | 2 | 302 |
| 7:00 | 578 | 171 | 28 | 5 | 782 |
| 8:00 | 1168 | 447 | 32 | 5 | 1652 |
| 9:00 | 996 | 421 | 53 | 22 | 1492 |
| 10:00 | 832 | 468 | 56 | 14 | 1370 |
| 11:00 | 843 | 482 | 57 | 14 | 1396 |
| 12:00 | 850 | 725 | 46 | 17 | 1638 |
| 13:00 | 779 | 676 | 59 | 6 | 1520 |
| 14:00 | 842 | 595 | 39 | 7 | 1483 |
| 15:00 | 896 | 767 | 24 | 17 | 1704 |
| 16:00 | 863 | 881 | 55 | 17 | 1816 |
| 17:00 | 989 | 942 | 57 | 14 | 2002 |
| 18:00 | 1030 | 914 | 66 | 19 | 2029 |
| 19:00 | 693 | 684 | 179 | 16 | 1572 |
| 20:00 | 382 | 610 | 109 | 10 | 1111 |
| 21:00 | 321 | 365 | 29 | 13 | 728 |
| 22:00 | 164 | 242 | 7 | 5 | 418 |
| 23:00 | 150 | 139 | 10 | 4 | 303 |
| 24:00 | 70 | 87 | 3 | 4 | 164 |
|  | 12864 | 9916 | 926 | 215 |  |



| SECTION | 79010 | CITY Edgewater | COUNTY Volusia |
| :--- | :--- | ---: | :--- |
| STATE ROUTE | US 1 | INTERSECTING ROUTE Turgot Avenue |  |
| OBSERVER | AK | DATE 9/30/2015 |  |
|  |  |  |  |

REMARKS

FORM COMPLETED BY PHF
DATE 10/06/15

US 1
SB ST NAME

| $8-9$ | $9-10$ | $11-12$ | $12-1$ | $4-5$ | $5-6$ | $6-7$ | $7-8$ | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 4 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 4 |  |



|  |  |  |  |
| :---: | :---: | :---: | :---: |
| $8-9$ | 1 | 0 | 1 |
| $9-10$ | 0 | 0 | 0 |
| $11-12$ | 0 | 0 | 0 |
| $12-1$ | 0 | 0 | 0 |
| $4-5$ | 1 | 0 | 1 |
| $5-6$ | 1 | 3 | 4 |
| $6-7$ | 0 | 1 | 1 |
| $7-8$ | 1 | 1 | 2 |
| Total | 4 | 5 | 9 |

Turgot Avenue
EB ST NAME

| $\mathbf{8 - 9}$ | $\mathbf{9 - 1 0}$ | $\mathbf{1 1 - 1 2}$ | $\mathbf{1 2 - 1}$ | $\mathbf{4 - 5}$ | $\mathbf{5 - 6}$ | $\mathbf{6 - 7}$ | $\mathbf{7 - 8}$ | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $\mathbf{0}$ | $\mathbf{0}$ | 0 | 0 | 0 | 1 | 0 | 0 | 1 |

US 1
NB ST NAME

| SECTION | 79010 | CITY Edgewater | COUNTY Volusia |
| :--- | :--- | ---: | :--- |
| STATE ROUTE | US 1 | INTERSECTING ROUTE Turgot Avenue |  |
| OBSERVER | AK | DATE 9/30/2015 |  |
|  |  |  |  |

REMARKS

FORM COMPLETED BY PHF
DATE 10/06/15

US 1


File Name : Not Named 1
Site Code: 00000000
Start Date : 9/30/2015
Page No :1

|  | US 1 <br> Northbound |  |  |  |  | US 1 <br> Southbound |  |  |  |  | TURGOT AVE Eastbound |  |  |  |  | TURGOT AVE Westbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Int. Total |
| 08:00 AM | 14 | 288 | 1 | 0 | 303 | 2 | 183 | 6 | 0 | 191 | 4 | 0 | 7 | 0 | 11 | 1 | 0 | 0 | 0 | 1 | 506 |
| 08:15 AM | 11 | 281 | 1 | 0 | 293 | 3 | 161 | 5 | 0 | 169 | 7 | 0 | 6 | 0 | 13 | 1 | 1 | 2 | 0 | 4 | 479 |
| 08:30 AM | 7 | 283 | 3 | 0 | 293 | 2 | 204 | 6 | 1 | 213 | 8 | 0 | 5 | 0 | 13 | 1 | 0 | 4 | 0 | 5 | 524 |
| 08:45 AM | 24 | 279 | 1 | 0 | 304 | 2 | 187 | 15 | 0 | 204 | 18 | 0 | 17 | 0 | 35 | 1 | 0 | 0 | 0 | 1 | 544 |
| Total | 56 | 1131 | 6 | 0 | 1193 | 9 | 735 | 32 | 1 | 777 | 37 | 0 | 35 | 0 | 72 | 4 | 1 | 6 | 0 | 11 | 2053 |
| 09:00 AM | 11 | 203 | 0 | 0 | 214 | 2 | 166 | 3 | 0 | 171 | 11 | 0 | 12 | 0 | 23 | 2 | 2 | 2 | 0 | 6 | 414 |
| 09:15 AM | 3 | 237 | 2 | 0 | 242 | 5 | 151 | 2 | 0 | 158 | 4 | 0 | 5 | 0 | 9 | 1 | 0 | 1 | 0 | 2 | 411 |
| 09:30 AM | 6 | 200 | 3 | 0 | 209 | 3 | 167 | 3 | 0 | 173 | 3 | 1 | 3 | 0 | 7 | 1 | 0 | 4 | 0 | 5 | 394 |
| 09:45 AM | 5 | 283 | 2 | 0 | 290 | 7 | 181 | 8 | 0 | 196 | 7 | 1 | 17 | 0 | 25 | 1 | 0 | 7 | 0 | 8 | 519 |
| Total | 25 | 923 | 7 | 0 | 955 | 17 | 665 | 16 | 0 | 698 | 25 | 2 | 37 | 0 | 64 | 5 | 2 | 14 | 0 | 21 | 1738 |

*** BREAK ***

| 11:00 AM | 12 | 215 | 4 | 0 | 231 | 3 | 214 | 4 | 0 | 221 | 2 | 0 | 2 | 0 | 4 | 3 | 0 | 1 | 0 | 4 | 460 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11:15 AM | 12 | 253 | 1 | 0 | 266 | 6 | 223 | 0 | 0 | 229 | 16 | 0 | 10 | 0 | 26 | 2 | 0 | 1 | 0 | 3 | 524 |
| 11:30 AM | 7 | 221 | 1 | 0 | 229 | 9 | 228 | 4 | 0 | 241 | 5 | 0 | 6 | 0 | 11 | 1 | 0 | 3 | 0 | 4 | 485 |
| 11:45 AM | 15 | 257 | 0 | 0 | 272 | 4 | 278 | 6 | 0 | 288 | 5 | 0 | 6 | 0 | 11 | 5 | 0 | 2 | 0 | 7 | 578 |
| Total | 46 | 946 | 6 | 0 | 998 | 22 | 943 | 14 | 0 | 979 | 28 | 0 | 24 | 0 | 52 | 11 | 0 | 7 | 0 | 18 | 2047 |
| 12:00 PM | 4 | 199 | 1 | 0 | 204 | 8 | 226 | 7 | 0 | 241 | 7 | 0 | 4 | 0 | 11 | 2 | 1 | 1 | 0 | 4 | 460 |
| 12:15 PM | 2 | 234 | 1 | 0 | 237 | 4 | 218 | 4 | 0 | 226 | 2 | 0 | 10 | 0 | 12 | 1 | 0 | 1 | 0 | 2 | 477 |
| 12:30 PM | 2 | 263 | 1 | 0 | 266 | 6 | 221 | 4 | 0 | 231 | 6 | 0 | 8 | 0 | 14 | 2 | 0 | 3 | 0 | 5 | 516 |
| 12:45 PM | 7 | 251 | 0 | 0 | 258 | 5 | 250 | 5 | 0 | 260 | 7 | 0 | 8 | 0 | 15 | 1 | 0 | 3 | 1 | 5 | 538 |
| Total | 15 | 947 | 3 | 0 | 965 | 23 | 915 | 20 | 0 | 958 | 22 | 0 | 30 | 0 | 52 | 6 | 1 | 8 | 1 | 16 | 1991 |

*** BREAK ***

| 04:00 PM | 17 | 265 | 1 | 0 | 283 | 2 | 327 | 7 | 0 | 336 | 2 | 1 | 7 | 0 | 10 | 2 | 0 | 4 | 0 | 6 | 635 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 04:15 PM | 4 | 242 | 2 | 0 | 248 | 5 | 285 | 8 | 0 | 298 | 3 | 1 | 3 | 0 | 7 | 1 | 0 | 2 | 0 | 3 | 556 |
| 04:30 PM | 9 | 275 | 3 | 0 | 287 | 7 | 329 | 4 | 0 | 340 | 4 | 0 | 6 | 0 | 10 | 0 | 0 | 1 | 0 | 1 | 638 |
| 04:45 PM | 13 | 263 | 4 | 0 | 280 | 8 | 330 | 9 | 1 | 348 | 8 | 0 | 7 | 0 | 15 | 2 | 0 | 1 | 0 | 3 | 646 |
| Total | 43 | 1045 | 10 | 0 | 1098 | 22 | 1271 | 28 | 1 | 1322 | 17 | 2 | 23 | 0 | 42 | 5 | 0 | 8 | 0 | 13 | 2475 |
| 05:00 PM | 13 | 241 | 2 | 0 | 256 | 4 | 315 | 7 | 2 | 328 | 7 | 0 | 6 | 0 | 13 | 5 | 1 | 2 | 0 | 8 | 605 |
| 05:15 PM | 10 | 246 | 6 | 1 | 263 | 7 | 316 | 14 | 0 | 337 | 7 | 1 | 10 | 0 | 18 | 2 | 0 | 1 | 0 | 3 | 621 |
| 05:30 PM | 14 | 256 | 4 | 0 | 274 | 4 | 290 | 18 | 2 | 314 | 6 | 2 | 6 | 1 | 15 | 1 | 1 | 2 | 1 | 5 | 608 |
| 05:45 PM | 49 | 220 | 3 | 3 | 275 | 4 | 261 | 20 | 0 | 285 | 3 | 0 | 5 | 0 | 8 | 3 | 2 | 0 | 0 | 5 | 573 |
| Total | 86 | 963 | 15 | 4 | 1068 | 19 | 1182 | 59 | 4 | 1264 | 23 | 3 | 27 | 1 | 54 | 11 | 4 | 5 | 1 | 21 | 2407 |
| 06:00 PM | 50 | 201 | 2 | 2 | 255 | 7 | 308 | 32 | 1 | 348 | 5 | 0 | 8 | 0 | 13 | 1 | 0 | 3 | 0 | 4 | 620 |
| 06:15 PM | 32 | 197 | 2 | 0 | 231 | 4 | 238 | 24 | 0 | 266 | 10 | 0 | 9 | 0 | 19 | 0 | 0 | 1 | 0 | 1 | 517 |
| 06:30 PM | 29 | 168 | 4 | 0 | 201 | 8 | 232 | 8 | 0 | 248 | 9 | 0 | 9 | 0 | 18 | 1 | 1 | 1 | 1 | 4 | 471 |
| 06:45 PM | 27 | 220 | 4 | 0 | 251 | 9 | 225 | 14 | 0 | 248 | 5 | 0 | 12 | 0 | 17 | 1 | 0 | 3 | 0 | 4 | 520 |
| Total | 138 | 786 | 12 | 2 | 938 | 28 | 1003 | 78 | 1 | 1110 | 29 | 0 | 38 | 0 | 67 | 3 | 1 | 8 | 1 | 13 | 2128 |
| 07:00 PM | 9 | 165 | 2 | 0 | 176 | 6 | 201 | 8 | 0 | 215 | 24 | 1 | 35 | 0 | 60 | 0 | 0 | 0 | 0 | 0 | 451 |
| 07:15 PM | 6 | 149 | 3 | 0 | 158 | 5 | 211 | 13 | 0 | 229 | 33 | 1 | 45 | 0 | 79 | 3 | 0 | 0 | 1 | 4 | 470 |
| 07:30 PM | 5 | 125 | 4 | 0 | 134 | 5 | 184 | 9 | 1 | 199 | 12 | 0 | 25 | 0 | 37 | 2 | 0 | 1 | 0 | 3 | 373 |
| 07:45 PM | 7 | 129 | 1 | 0 | 137 | 4 | 209 | 5 | 1 | 219 | 13 | 1 | 23 | 0 | 37 | 3 | 0 | 0 | 0 | 3 | 396 |
| Total | 27 | 568 | 10 | 0 | 605 | 20 | 805 | 35 | 2 | 862 | 82 | 3 | 128 | 0 | 213 | 8 | 0 | 1 | 1 | 10 | 1690 |
| Grand Total | 436 | 7309 | 69 | 6 | 7820 | 160 | 7519 | 282 | 9 | 7970 | 263 | 10 | 342 | 1 | 616 | 53 | 9 | 57 | 4 | 123 | 16529 |
| Apprch \% | 5.6 | 93.5 | 0.9 | 0.1 |  | 2 | 94.3 | 3.5 | 0.1 |  | 42.7 | 1.6 | 55.5 | 0.2 |  | 43.1 | 7.3 | 46.3 | 3.3 |  |  |
| Total \% | 2.6 | 44.2 | 0.4 | 0 | 47.3 | 1 | 45.5 | 1.7 | 0.1 | 48.2 | 1.6 | 0.1 | 2.1 | 0 | 3.7 | 0.3 | 0.1 | 0.3 | 0 | 0.7 |  |

File Name : Not Named 1
Site Code: 00000000
Start Date: 9/30/2015
Page No : 2

|  | US 1 <br> Northbound |  |  |  |  | US 1 <br> Southbound |  |  |  |  | TURGOT AVE Eastbound |  |  |  |  | TURGOT AVE Westbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Left | Thru | Right | Peds | App. Total | Left | Thr u | $\begin{array}{r} \text { Rig } \\ \mathrm{ht} \end{array}$ | $\begin{array}{r} \text { Ped } \\ \mathrm{s} \end{array}$ | App. <br> Total | Left | Thr u | Rig ht | $\begin{array}{r} \text { Ped } \\ \mathrm{s} \end{array}$ | App. <br> Total | Left | Thr u | $\begin{array}{r} \text { Rig } \\ \mathrm{ht} \end{array}$ | $\begin{array}{r} \mathrm{Ped} \\ \mathrm{~S} \end{array}$ | App. <br> Total | $\begin{aligned} & \text { Int. } \\ & \text { Total } \end{aligned}$ |
| Peak Hour Analysis From 08:00 AM to 09:45 AM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 08:00 AM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 08:00 AM | 14 | 288 | 1 | 0 | 303 | 2 | 183 | 6 | 0 | 191 | 4 | 0 | 7 | 0 | 11 | 1 | 0 | 0 | 0 | 1 | 506 |
| 08:15 AM | 11 | 281 | 1 | 0 | 293 | 3 | 161 | 5 | 0 | 169 | 7 | 0 | 6 | 0 | 13 | 1 | 1 | 2 | 0 | 4 | 479 |
| 08:30 AM | 7 | 283 | 3 | 0 | 293 | 2 | 204 | 6 | 1 | 213 | 8 | 0 | 5 | 0 | 13 | 1 | 0 | 4 | 0 | 5 | 524 |
| 08:45 AM | 24 | 279 | 1 | 0 | 304 | 2 | 187 | 15 | 0 | 204 | 18 | 0 | 17 | 0 | 35 | 1 | 0 | 0 | 0 | 1 | 544 |
| Total Volume | 56 | 1131 | 6 | 0 | 1193 | 9 | 735 | 32 | 1 | 777 | 37 | 0 | 35 | 0 | 72 | 4 | 1 | 6 | 0 | 11 | 2053 |
| \% App. Total | 4.7 | 94.8 | 0.5 | 0 |  | 1.2 | 94.6 | 4.1 | 0.1 |  | 51.4 | 0 | 48.6 | 0 |  | 36.4 | 9.1 | 54.5 | 0 |  |  |
| PHF | . 583 | . 982 | . 500 | . 000 | . 981 | . 750 | . 901 | . 533 | . 250 | . 912 | . 514 | . 000 | . 515 | . 000 | . 514 | 1.00 | . 250 | . 375 | . 000 | . 550 | . 943 |

Peak Hour Analysis From 08:00 AM to 09:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

|  | 08:00 AM |  |  |  |  | 08:00 AM |  |  |  |  | 08:15 AM |  |  |  |  | 09:00 AM |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +0 mins. | 14 | 288 | 1 | 0 | 303 | 2 | 183 | 6 | 0 | 191 | 7 | 0 | 6 | 0 | 13 | 2 | 2 | 2 | 0 | 6 |
| +15 mins. | 11 | 281 | 1 | 0 | 293 | 3 | 161 | 5 | 0 | 169 | 8 | 0 | 5 | 0 | 13 | 1 | 0 | 1 | 0 | 2 |
| +30 mins. | 7 | 283 | 3 | 0 | 293 | 2 | 204 | 6 | 1 | 213 | 18 | 0 | 17 | 0 | 35 | 1 | 0 | 4 | 0 | 5 |
| +45 mins. | 24 | 279 | 1 | 0 | 304 | 2 | 187 | 15 | 0 | 204 | 11 | 0 | 12 | 0 | 23 | 1 | 0 | 7 | 0 | 8 |
| Total Volume | 56 | 1131 | 6 | 0 | 1193 | 9 | 735 | 32 | 1 | 777 | 44 | 0 | 40 | 0 | 84 | 5 | 2 | 14 | 0 | 21 |
| \% App. Total | 4.7 | $\begin{array}{r} 94 . \\ 8 \\ \hline \end{array}$ | 0.5 | 0 |  | 1.2 | $\begin{array}{r} 94 . \\ 6 \\ \hline \end{array}$ | 4.1 | 0.1 |  | $\begin{array}{r} 52 . \\ 4 \\ \hline \end{array}$ | 0 | $\begin{array}{r} 47 . \\ 6 \\ \hline \end{array}$ | 0 |  | $\begin{array}{r} 23 . \\ 8 \\ \hline \end{array}$ | 9.5 | $66 .$ $7$ | 0 |  |
| PHF | $\begin{array}{r} .58 \\ 3 \end{array}$ | .98 2 | .50 0 | .00 0 | . 981 | .75 0 | .90 1 | .53 3 | .25 0 | . 912 | $.61$ | .00 0 | .58 8 | .00 0 | . 600 | .62 5 | .25 0 | .50 0 | $\begin{array}{r} .00 \\ 0 \end{array}$ | . 656 |

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1
Peak Hour for Entire Intersection Begins at 11:00 AM

| 11:00 AM | 12 | 215 | 4 | 0 | 231 | 3 | 214 | 4 | 0 | 221 | 2 | 0 | 2 | 0 | 4 | 3 | 0 | 1 | 0 | 4 | 460 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11:15 AM | 12 | 253 | 1 | 0 | 266 | 6 | 223 | 0 | 0 | 229 | 16 | 0 | 10 | 0 | 26 | 2 | 0 | 1 | 0 | 3 | 524 |
| 11:30 AM | 7 | 221 | 1 | 0 | 229 | 9 | 228 | 4 | 0 | 241 | 5 | 0 | 6 | 0 | 11 | 1 | 0 | 3 | 0 | 4 | 485 |
| 11:45 AM | 15 | 257 | 0 | 0 | 272 | 4 | 278 | 6 | 0 | 288 | 5 | 0 | 6 | 0 | 11 | 5 | 0 | 2 | 0 | 7 | 578 |
| Total Volume | 46 | 946 | 6 | 0 | 998 | 22 | 943 | 14 | 0 | 979 | 28 | 0 | 24 | 0 | 52 | 11 | 0 | 7 | 0 | 18 | 2047 |
| \% App. Total | 4.6 | 94.8 | 0.6 | 0 |  | 2.2 | 96.3 | 1.4 | 0 |  | 53.8 | 0 | 46.2 | 0 |  | 61.1 | 0 | 38.9 | 0 |  |  |
| PHF | . 767 | . 920 | . 375 | . 000 | . 917 | . 611 | . 848 | . 583 | . 000 | . 850 | . 438 | . 000 | . 600 | . 000 | . 500 | . 550 | . 000 | . 583 | . 000 | . 643 | . 885 |

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

|  | 11:00 AM |  |  |  |  | 11:15 AM |  |  |  |  | 11:15 AM |  |  |  |  | 11:00 AM |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +0 mins. | 12 | 215 | 4 | 0 | 231 | 6 | 223 | 0 | 0 | 229 | 16 | 0 | 10 | 0 | 26 | 3 | 0 | 1 | 0 | 4 |
| +15 mins. | 12 | 253 | 1 | 0 | 266 | 9 | 228 | 4 | 0 | 241 | 5 | 0 | 6 | 0 | 11 | 2 | 0 | 1 | 0 | 3 |
| +30 mins. | 7 | 221 | 1 | 0 | 229 | 4 | 278 | 6 | 0 | 288 | 5 | 0 | 6 | 0 | 11 | 1 | 0 | 3 | 0 | 4 |
| +45 mins. | 15 | 257 | 0 | 0 | 272 | 8 | 226 | 7 | 0 | 241 | 7 | 0 | 4 | 0 | 11 | 5 | 0 | 2 | 0 | 7 |
| Total Volume | 46 | 946 | 6 | 0 | 998 | 27 | 955 | 17 | 0 | 999 | 33 | 0 | 26 | 0 | 59 | 11 | 0 | 7 | 0 | 18 |
| \% App. Total | 4.6 | $\begin{array}{r} 94 . \\ 8 \\ \hline \end{array}$ | 0.6 | 0 |  | 2.7 | $\begin{array}{r} 95 . \\ 6 \\ \hline \end{array}$ | 1.7 | 0 |  | $\begin{array}{r} 55 . \\ 9 \\ \hline \end{array}$ | 0 | $\begin{array}{r} 44 . \\ 1 \\ \hline \end{array}$ | 0 |  | $\begin{array}{r} 61 . \\ \hline \end{array}$ | 0 | $\begin{array}{r} 38 . \\ \hline \end{array}$ | 0 |  |
| PHF | . 76 | . 92 | . 37 | . 00 | . 917 | . 75 | . 85 | . 60 | . 00 | . 867 | . 51 | . 00 | . 65 | . 00 | . 567 | . 55 | . 00 | . 58 | . 00 | . 643 |
| PHF | 7 | 0 | 5 | 0 | . 917 | 0 | 9 | 7 | 0 | . 867 | 6 | 0 | 0 | 0 | . 567 | 0 | 0 | 3 | 0 | . 643 |

Peak Hour Analysis From 02:00 PM to 07:45 PM - Peak 1 of 1
Peak Hour for Entire Intersection Begins at 04:30 PM

| $04: 30 ~ P M ~$ | 9 | 275 | 3 | 0 | 287 | 7 | 329 | 4 | 0 | 340 | 4 | 0 | 6 | 0 | 10 | 0 | 0 | 1 | 0 | 1 | 638 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $04: 45 ~ P M ~$ | 13 | 263 | 4 | 0 | 280 | 8 | 330 | 9 | 1 | 348 | 8 | 0 | 7 | 0 | 15 | 2 | 0 | 1 | 0 | 3 | 646 |
| $05: 00 ~ P M ~$ | 13 | 241 | 2 | 0 | 256 | 4 | 315 | 7 | 2 | 328 | 7 | 0 | 6 | 0 | 13 | 5 | 1 | 2 | 0 | 8 | 605 |
| $05: 15 ~ P M ~$ | 10 | 246 | 6 | 1 | 263 | 7 | 316 | 14 | 0 | 337 | 7 | 1 | 10 | 0 | 18 | 2 | 0 | 1 | 0 | 3 | 621 |
| Total Volume | 45 | 1025 | 15 | 1 | 1086 | 26 | 1290 | 34 | 3 | 1353 | 26 | 1 | 29 | 0 | 56 | 9 | 1 | 5 | 0 | 15 | 2510 |
| \% App. Total | 4.1 | 94.4 | 1.4 | 0.1 |  | 1.9 | 95.3 | 2.5 | 0.2 |  | 46.4 | 1.8 | 51.8 | 0 |  | 60 | 6.7 | 33.3 | 0 |  |  |
| PHF | .865 | .932 | .625 | .250 | .946 | .813 | .977 | .607 | .375 | .972 | .813 | .250 | .725 | .000 | .778 | .450 | .250 | .625 | .000 | .469 | .971 |

Peak Hour Analysis From 02:00 PM to 07:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

|  | 04:00 PM |  |  |  |  | 04:30 PM |  |  |  |  | 07:00 PM |  |  |  |  | 05:00 PM |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +0 mins. | 17 | 265 | 1 | 0 | 283 | 7 | 329 | 4 | 0 | 340 | 24 | 1 | 35 | 0 | 60 | 5 | 1 | 2 | 0 | 8 |
| +15 mins. | 4 | 242 | 2 | 0 | 248 | 8 | 330 | 9 | 1 | 348 | 33 | 1 | 45 | 0 | 79 | 2 | 0 | 1 | 0 | 3 |
| +30 mins. | 9 | 275 | 3 | 0 | 287 | 4 | 315 | 7 | 2 | 328 | 12 | 0 | 25 | 0 | 37 | 1 | 1 | 2 | 1 | 5 |
| +45 mins. | 13 | 263 | 4 | 0 | 280 | 7 | 316 | 14 | 0 | 337 | 13 | 1 | 23 | 0 | 37 | 3 | 2 | 0 | 0 | 5 |
| Total Volume | 43 | 1045 | 10 | 0 | 1098 | 26 | 1290 | 34 | 3 | 1353 | 82 | 3 | 128 | 0 | 213 | 11 | 4 | 5 | 1 | 21 |
| \% App. Total | 3.9 | $\begin{array}{r} 95 . \\ 2 \\ \hline \end{array}$ | 0.9 | 0 |  | 1.9 | $\begin{array}{r} 95 . \\ 3 \end{array}$ | 2.5 | 0.2 |  | $\begin{array}{r} 38 . \\ 5 \\ \hline \end{array}$ | 1.4 | $60 .$ | 0 |  | $\begin{array}{r} 52 . \\ 4 \end{array}$ | 19 | $\begin{array}{r} 23 . \\ 8 \end{array}$ | 4.8 |  |
| PHF | . 63 | .95 0 | .62 5 | .00 0 | . 956 | .81 3 | .97 7 | .60 7 | .37 5 | . 972 | .62 1 | .75 0 | .71 1 | .00 0 | . 674 | .55 0 | .50 0 | .62 5 | .25 0 | . 656 |


|  | US 1 <br> Northbound |  |  |  |  | US 1 <br> Southbound |  |  |  |  | TURGOT AVE Eastbound |  |  |  |  | TURGOT AVE Westbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Int. Total |
| 08:00 AM | 0 | 3 | 0 | 0 | 3 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 08:15 AM | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 08:30 AM | 0 | 3 | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 08:45 AM | 0 | 1 | 0 | 0 | 1 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Total | 0 | 14 | 0 | 0 | 14 | 0 | 13 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27 |
| 09:00 AM | 0 | 3 | 0 | 0 | 3 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 09:15 AM | 0 | 4 | 0 | 0 | 4 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 09:30 AM | 0 | 4 | 0 | 0 | 4 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 8 |
| 09:45 AM | 0 | 5 | 0 | 0 | 5 | 1 | 6 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| Total | 0 | 16 | 0 | 0 | 16 | 1 | 16 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 34 |

*** BREAK ***

| 11:00 AM | 0 | 1 | 0 | 0 | 1 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11:15 AM | 0 | 2 | 0 | 0 | 2 | 1 | 5 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 11:30 AM | 0 | 4 | 0 | 0 | 4 | 1 | 4 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 11:45 AM | 0 | 6 | 0 | 0 | 6 | 0 | 2 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 10 |
| Total | 0 | 13 | 0 | 0 | 13 | 2 | 14 | 1 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 32 |
| 12:00 PM | 0 | 3 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 12:15 PM | 0 | 2 | 0 | 0 | 2 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 12:30 PM | 1 | 4 | 0 | 0 | 5 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 12 |
| 12:45 PM | 0 | 4 | 0 | 0 | 4 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| Total | 1 | 13 | 0 | 0 | 14 | 0 | 18 | 0 | 0 | 18 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 34 |

*** BREAK ***

| 04:00 PM | 0 | 4 | 0 | 0 | 4 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 04:15 PM | 0 | 10 | 0 | 0 | 10 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 04:30 PM | 0 | 3 | 0 | 0 | 3 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 0 | 17 | 0 | 0 | 17 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 |


| 05:00 PM | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 05:15 PM | 0 | 2 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 05:30 PM | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 6 |
| 05:45 PM | 0 | 2 | 0 | 1 | 3 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Total | 0 | 10 | 0 | 1 | 11 | 0 | 2 | 0 | 3 | 5 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 17 |


| 06:00 PM | 0 | 2 | 0 | 1 | 3 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 06:15 PM | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 06:30 PM | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 06:45 PM | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 0 | 8 | 0 | 1 | 9 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |


| 07:00 PM | 0 | 4 | 0 | 0 | 4 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 07:15 PM | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 07:30 PM | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 07:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 0 | 7 | 0 | 0 | 7 | 0 | 5 | 0 | 1 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| Grand Total | 1 | 98 | 0 | 2 | 101 | 3 | 76 | 1 | 5 | 85 | 0 | 0 | 2 | 1 | 3 | 1 | 0 | 2 | 0 | 3 | 192 |
| Apprch \% | 1 | 97 | 0 | 2 |  | 3.5 | 89.4 | 1.2 | 5.9 |  | 0 | 0 | 66.7 | 33.3 |  | 33.3 | 0 | 66.7 | 0 |  |  |
| Total \% | 0.5 | 51 | 0 | 1 | 52.6 | 1.6 | 39.6 | 0.5 | 2.6 | 44.3 | 0 | 0 | 1 | 0.5 | 1.6 | 0.5 | 0 | 1 | 0 | 1.6 |  |


|  | $\text { US } 1$ <br> Northbound |  |  |  |  | $\text { US } 1$ <br> Southbound |  |  |  |  | TURGOT AVE Eastbound |  |  |  |  | TURGOT AVE Westbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start <br> Time | Left | Thru | Right | Peds | App. Total | Left | $\begin{array}{r} \text { Thr } \\ \mathrm{u} \\ \hline \end{array}$ | Rig ht | $\begin{array}{r} \text { Ped } \\ \mathrm{s} \end{array}$ | App. <br> Total | Left | $\begin{array}{r} \text { Thr } \\ \mathrm{u} \\ \hline \end{array}$ | Rig ht | $\begin{array}{r} \text { Ped } \\ \mathrm{s} \end{array}$ | App. <br> Total | Left | $\begin{array}{r} \text { Thr } \\ \mathrm{u} \\ \hline \end{array}$ | Rig ht | $\begin{array}{r} \mathrm{Ped} \\ \mathrm{~s} \end{array}$ | App. <br> Total | Int. Total |
| Peak Hour Analysis From 08:00 AM to 09:45 AM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 09:00 AM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09:00 AM | 0 | 3 | 0 | 0 | 3 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 09:15 AM | 0 | 4 | 0 | 0 | 4 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 09:30 AM | 0 | 4 | 0 | 0 | 4 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 8 |
| 09:45 AM | 0 | 5 | 0 | 0 | 5 | 1 | 6 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| Total Volume | 0 | 16 | 0 | 0 | 16 | 1 | 16 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 34 |
| \% App. Total | 0 | 100 | 0 | 0 |  | 5.9 | 94.1 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 100 | 0 |  |  |
| PHF | . 000 | . 800 | . 000 | . 000 | . 800 | . 250 | . 667 | . 000 | . 000 | . 607 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 250 | . 000 | . 250 | . 708 |

Peak Hour Analysis From 08:00 AM to 09:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

|  | 09:00 AM |  |  |  |  | 09:00 AM |  |  |  |  | 08:00 AM |  |  |  |  | 08:45 AM |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +0 mins. | 0 | 3 | 0 | 0 | 3 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 4 | 0 | 0 | 4 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 4 | 0 | 0 | 4 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 5 | 0 | 0 | 5 | 1 | 6 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Total Volume | 0 | 16 | 0 | 0 | 16 | 1 | 16 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| \% App. Total | 0 | 100 | 0 | 0 |  | 5.9 | 94. 1 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 100 | 0 |  |
| PHF | $\begin{array}{r} .00 \\ 0 \end{array}$ | . 80 | .00 0 | .00 0 | . 800 | .25 0 | .66 7 | .00 0 | .00 0 | .607 | .00 0 | .00 0 | .00 0 | .00 0 | . 000 | .00 0 | .00 0 | .25 0 | .00 0 | . 250 |

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1
Peak Hour for Entire Intersection Begins at 11:45 AM

| 11:45 AM | 0 | 6 | 0 | 0 | 6 | 0 | 2 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:00 PM | 0 | 3 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 12:15 PM | 0 | 2 | 0 | 0 | 2 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 12:30 PM | 1 | 4 | 0 | 0 | 5 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 12 |
| Total Volume | 1 | 15 | 0 | 0 | 16 | 0 | 14 | 1 | 0 | 15 | 0 | 0 | 2 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 34 |
| \% App. Total | 6.2 | 93.8 | 0 | 0 |  | 0 | 93.3 | 6.7 | 0 |  | 0 | 0 | 100 | 0 |  | 100 | 0 | 0 | 0 |  |  |
| PHF | 250 | . 625 | 000 | 000 | . 667 | . 000 | . 700 | 250 | 000 | . 750 | . 000 | . 000 | . 250 | 000 | 250 | . 250 | . 000 | 000 | 000 | . 250 | 708 |

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

|  | 11:45 AM |  |  |  |  | 12:00 PM |  |  |  |  | 11:45 AM |  |  |  |  | 11:00 AM |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +0 mins. | 0 | 6 | 0 | 0 | 6 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| +15 mins. | 0 | 3 | 0 | 0 | 3 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 2 | 0 | 0 | 2 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 1 | 4 | 0 | 0 | 5 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 2 | 0 | 2 | 1 | 0 | 0 | 0 | 1 |
| Total Volume | 1 | 15 | 0 | 0 | 16 | 0 | 18 | 0 | 0 | 18 | 0 | 0 | 2 | 0 | 2 | 1 | 0 | 1 | 0 | 2 |
| \% App. Total | 6.2 | $\begin{array}{r} 93 . \\ 8 \\ \hline \end{array}$ | 0 | 0 |  | 0 | 100 | 0 | 0 |  | 0 | 0 | 100 | 0 |  | 50 | 0 | 50 | 0 |  |
| PHF | .25 0 | .62 5 | .00 0 | .00 0 | . 667 | .00 0 | .75 0 | .00 0 | .00 0 | . 750 | .00 0 | .00 0 | .25 0 | .00 0 | . 250 | .25 0 | .00 0 | .25 0 | .00 0 | . 500 |

Peak Hour Analysis From 02:00 PM to 07:45 PM - Peak 1 of 1
Peak Hour for Entire Intersection Begins at 04:00 PM

| 04:00 PM | 0 | 4 | 0 | 0 | 4 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 04:15 PM | 0 | 10 | 0 | 0 | 10 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 04:30 PM | 0 | 3 | 0 | 0 | 3 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total Volume | 0 | 17 | 0 | 0 | 17 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 |
| \% App. Total | 0 | 100 | 0 | 0 |  | 0 | 100 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  |  |
| PHF | . 000 | . 425 | . 000 | . 000 | . 425 | . 000 | . 438 | . 000 | . 000 | . 438 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 545 |

Peak Hour Analysis From 02:00 PM to 07:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

|  | 03:45 PM |  |  |  |  | 04:15 PM |  |  |  |  | 04:45 PM |  |  |  |  | 02:00 PM |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 4 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 10 | 0 | 0 | 10 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 17 | 0 | 0 | 17 | 0 | 6 | 0 | 2 | 8 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| \% App. Total | 0 | 100 | 0 | 0 |  | 0 | 75 | 0 | 25 |  | 0 | 0 | 0 | 100 |  | 0 | 0 | 0 | 0 |  |
| PHF | .00 0 | .42 5 | .00 0 | .00 0 | . 425 | .00 0 | .37 5 | .00 0 | . 0 | . 500 | .00 0 | .00 0 | .00 0 | .25 0 | . 250 | .00 0 | .00 0 | .00 0 | .00 0 | . 000 |


|  | US 1 <br> Northbound |  |  |  |  | US 1 <br> Southbound |  |  |  |  | TURGOT AVE Eastbound |  |  |  |  | TURGOT AVE Westbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Int. Total |
| 08:00 AM | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 08:30 AM | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 5 | 0 | 0 | 0 | 5 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 09:00 AM | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 09:15 AM | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 09:30 AM | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 09:45 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 5 | 0 | 0 | 0 | 5 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |

*** BREAK ***

| 11:00 AM | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11:15 AM | 4 | 0 | 0 | 0 | 4 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 11:30 AM | 4 | 0 | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 11:45 AM | 7 | 0 | 0 | 0 | 7 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| Total | 19 | 0 | 0 | 0 | 19 | 8 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27 |
| 12:00 PM | 2 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 12:15 PM | 2 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 12:30 PM | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 12:45 PM | 2 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Total | 7 | 0 | 0 | 0 | 7 | 5 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |

*** BREAK ***

| 04:00 PM | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 04:15 PM | 1 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 04:30 PM | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 04:45 PM | 2 | 0 | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Total | 6 | 0 | 0 | 0 | 6 | 5 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 05:00 PM | 5 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 05:15 PM | 1 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 05:30 PM | 1 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 05:45 PM | 5 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Total | 12 | 0 | 0 | 0 | 12 | 5 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 |


| $06: 00 \mathrm{PM}$ | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | :--- | :--- | :--- | :--- | :--- | :--- |
| $06: 15 \mathrm{PM}$ | 4 | 0 | 0 | 0 | 4 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| $06: 30 \mathrm{PM}$ | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| $06: 45 \mathrm{PM}$ | 4 | 0 | 0 | 0 | 4 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| Total | 11 | 0 | 0 | 0 | 11 | 6 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 |


| $07: 00 ~ P M ~$ | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| ---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $07: 15 ~ P M ~$ | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| $07: 30 ~ P M ~$ | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| $07: 45 \mathrm{PM}$ | 3 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Total | 5 | 0 | 0 | 0 | 5 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |

$\begin{array}{lrllllllllllllllllllllllllll}\text { Grand Total } & 70 & 0 & 0 & 0 & 70 & 37 & 0 & 0 & 0 & 37 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 107\end{array}$


|  | US 1 <br> Northbound |  |  |  |  | US 1 <br> Southbound |  |  |  |  | TURGOT AVE Eastbound |  |  |  |  | TURGOT AVE Westbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start <br> Time | Left | Thru | Right | Peds | App. Total | Left | $\begin{array}{r} \text { Thr } \\ \mathrm{u} \\ \hline \end{array}$ | Rig ht | $\begin{array}{r} \text { Ped } \\ \mathrm{s} \end{array}$ | App. <br> Total | Left | $\begin{array}{r} \text { Thr } \\ \mathrm{u} \\ \hline \end{array}$ | Rig <br> ht | $\begin{array}{r} \text { Ped } \\ \mathrm{s} \end{array}$ | App. <br> Total | Left | $\begin{array}{r} \text { Thr } \\ \mathrm{u} \\ \hline \end{array}$ | Rig ht | $\begin{array}{r} \text { Ped } \\ \mathrm{S} \end{array}$ | App. <br> Total | Int. Total |
| Peak Hour Analysis From 08:00 AM to 09:45 AM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 08:00 AM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 08:00 AM | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 08:30 AM | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total Volume | 5 | 0 | 0 | 0 | 5 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| \% App. Total | 100 | 0 | 0 | 0 |  | 100 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  |  |
| PHF | . 417 | . 000 | . 000 | . 000 | . 417 | . 375 | . 000 | . 000 | . 000 | . 375 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 667 |

Peak Hour Analysis From 08:00 AM to 09:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

|  | 08:00 AM |  |  |  |  | 08:00 AM |  |  |  |  | 08:00 AM |  |  |  |  | 08:00 AM |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +0 mins. | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 5 | 0 | 0 | 0 | 5 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| \% App. Total | 100 | 0 | 0 | 0 |  | 100 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  |
| PHF | $\begin{array}{r} 41 \\ 7 \end{array}$ | $\begin{array}{r} .00 \\ 0 \end{array}$ | $\begin{array}{r} .00 \\ 0 \\ \hline \end{array}$ | $\begin{array}{r} .00 \\ 0 \\ \hline \end{array}$ | . 417 | $\begin{array}{r} .37 \\ 5 \end{array}$ | $\begin{array}{r} .00 \\ 0 \\ \hline \end{array}$ | $\begin{array}{r} .00 \\ 0 \\ \hline \end{array}$ | $\begin{array}{r} .00 \\ 0 \end{array}$ | . 375 | $\begin{array}{r} .00 \\ 0 \\ \hline \end{array}$ | $\begin{array}{r} .00 \\ 0 \\ \hline \end{array}$ | $\begin{array}{r} .00 \\ 0 \\ \hline \end{array}$ | $\begin{array}{r} .00 \\ 0 \\ \hline \end{array}$ | . 000 | $\begin{array}{r} .00 \\ 0 \\ \hline \end{array}$ | $\begin{array}{r} .00 \\ 0 \end{array}$ | $\begin{array}{r} .00 \\ 0 \end{array}$ | $\begin{array}{r} .00 \\ 0 \end{array}$ | . 000 |

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1
Peak Hour for Entire Intersection Begins at 11:00 AM

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11:00 AM | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 11:15 AM | 4 | 0 | 0 | 0 | 4 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 11:30 AM | 4 | 0 | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 11:45 AM | 7 | 0 | 0 | 0 | 7 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| Total Volume | 19 | 0 | 0 | 0 | 19 | 8 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27 |
| \% App. Total | 100 | 0 | 0 | 0 |  | 100 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  |  |
| PHF | . 679 | . 000 | . 000 | . 000 | . 679 | . 500 | . 000 | . 000 | . 000 | . 500 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 614 |

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

|  | 11:00 AM |  |  |  |  | 11:15 AM |  |  |  |  | 10:00 AM |  |  |  |  | 10:00 AM |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +0 mins. | 4 | 0 | 0 | 0 | 4 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 4 | 0 | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 4 | 0 | 0 | 0 | 4 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 7 | 0 | 0 | 0 | 7 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 19 | 0 | 0 | 0 | 19 | 10 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| \% App. Total | 100 | 0 | 0 | 0 |  | 100 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  |
| PHF | $\begin{array}{r} .67 \\ 9 \end{array}$ | $\begin{array}{r} .00 \\ 0 \end{array}$ | .00 0 | $\begin{array}{r} .00 \\ 0 \end{array}$ | . 679 | $\begin{array}{r} .62 \\ 5 \end{array}$ | $\begin{array}{r} .00 \\ 0 \end{array}$ | $\begin{array}{r} .00 \\ 0 \end{array}$ | $\begin{array}{r} .00 \\ 0 \end{array}$ | . 625 | $\begin{array}{r} .00 \\ 0 \end{array}$ | $\begin{array}{r} .00 \\ 0 \end{array}$ | $\begin{array}{r} .00 \\ 0 \end{array}$ | $\begin{array}{r} .00 \\ 0 \end{array}$ | . 000 | $\begin{array}{r} .00 \\ 0 \end{array}$ | $\begin{array}{r} .00 \\ 0 \end{array}$ | $\begin{array}{r} .00 \\ 0 \end{array}$ | $\begin{array}{r} .00 \\ 0 \end{array}$ | . 000 |

Peak Hour Analysis From 02:00 PM to 07:45 PM - Peak 1 of 1
Peak Hour for Entire Intersection Begins at 04:45 PM

| 04:45 PM | 2 | 0 | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 05:00 PM | 5 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 05:15 PM | 1 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 05:30 PM | 1 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Total Volume | 9 | 0 | 0 | 0 | 9 | 8 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 |
| \% App. Total | 100 | 0 | 0 | 0 |  | 100 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  |  |
| PHF | . 450 | . 000 | . 000 | . 000 | . 450 | . 667 | . 000 | . 000 | . 000 | . 667 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 850 |

Peak Hour Analysis From 02:00 PM to 07:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

|  | 05:00 PM |  |  |  |  | 04:45 PM |  |  |  |  | 02:00 PM |  |  |  |  | 02:00 PM |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +0 mins. | 5 | 0 | 0 | 0 | 5 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 1 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 5 | 0 | 0 | 0 | 5 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 12 | 0 | 0 | 0 | 12 | 8 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| \% App. Total | 100 | 0 | 0 | 0 |  | 100 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  |
| PHF | $\begin{array}{r} .60 \\ 0 \\ \hline \end{array}$ | $\begin{array}{r} .00 \\ 0 \\ \hline \end{array}$ | $\begin{array}{r} .00 \\ 0 \\ \hline \end{array}$ | $\begin{array}{r} .00 \\ 0 \\ \hline \end{array}$ | . 600 | $\begin{array}{r} .66 \\ 7 \\ \hline \end{array}$ | $\begin{array}{r} .00 \\ 0 \\ \hline \end{array}$ | .00 0 | $\begin{array}{r} .00 \\ 0 \\ \hline \end{array}$ | . 667 | $\begin{array}{r} .00 \\ 0 \\ \hline \end{array}$ | $\begin{array}{r} .00 \\ 0 \\ \hline \end{array}$ | .00 0 | $\begin{array}{r} .00 \\ 0 \\ \hline \end{array}$ | . 000 | $\begin{array}{r} .00 \\ 0 \\ \hline \end{array}$ | $\begin{array}{r} .00 \\ 0 \\ \hline \end{array}$ | $\begin{array}{r} .00 \\ 0 \\ \hline \end{array}$ | $\begin{array}{r} .00 \\ 0 \\ \hline \end{array}$ | . 000 |

File Name : Delay 8-9
Site Code : 00000000
Start Date : 10/13/2015
Page No : 1

| $\begin{aligned} & \mathrm{L} \\ & \mathrm{n} . \end{aligned}$ | No. | Joined Queue | Released From Queue | Delay |
| :---: | :---: | :---: | :---: | :---: |
| 1 | 1 | 8:05:41 AM | 8:05:52 AM | 11 |
| 1 | 2 | 8:08:41 AM | 8:08:45 AM | 4 |
| 1 | 3 | 8:12:46 AM | 8:13:17 AM | 31 |
| 1 | 4 | 8:14:09 AM | 8:14:32 AM | 23 |
| 1 | 5 | 8:18:21 AM | 8:18:26 AM | 5 |
| 1 | 6 | 8:20:15 AM | 8:20:21 AM | 6 |
| 1 | 7 | 8:23:14 AM | 8:23:18 AM | 4 |
| 1 | 8 | 8:24:13 AM | 8:24:23 AM | 10 |
| 1 | 9 | 8:25:10 AM | 8:25:24 AM | 14 |
| 1 | 10 | 8:25:52 AM | 8:26:14 AM | 22 |
| 1 | 11 | 8:27:59 AM | 8:28:06 AM | 7 |
| 1 | 12 | 8:29:48 AM | 8:30:10 AM | 22 |
| 1 | 13 | 8:31:07 AM | 8:31:19 AM | 12 |
| 1 | 14 | 8:35:20 AM | 8:35:33 AM | 13 |
| 1 | 15 | 8:35:44 AM | 8:35:53 AM | 9 |
| 1 | 16 | 8:36:38 AM | 8:36:48 AM | 10 |
| 1 | 17 | 8:36:42 AM | 8:37:00 AM | 18 |
| 1 | 18 | 8:37:22 AM | 8:37:32 AM | 10 |
| 1 | 19 | 8:39:21 AM | 8:40:12 AM | 51 |
| 1 | 20 | 8:42:40 AM | 8:42:46 AM | 6 |
| 1 | 21 | 8:42:49 AM | 8:42:53 AM | 4 |
| 1 | 22 | 8:42:58 AM | 8:43:34 AM | 36 |
| 1 | 23 | 8:43:38 AM | 8:43:46 AM | 8 |
| 1 | 24 | 8:46:36 AM | 8:46:43 AM | 7 |
| 1 | 25 | 8:48:10 AM | 8:48:15 AM | 5 |
| 1 | 26 | 8:49:23 AM | 8:50:12 AM | 49 |
| 1 | 27 | 8:50:56 AM | 8:51:07 AM | 11 |
| 1 | 28 | 8:50:58 AM | 8:51:09 AM | 11 |
| 1 | 29 | 8:52:27 AM | 8:52:50 AM | 23 |
| 1 | 30 | 8:53:07 AM | 8:53:24 AM | 17 |
| 1 | 31 | 8:53:22 AM | 8:53:43 AM | 21 |
| 1 | 32 | 8:53:37 AM | 8:53:45 AM | 8 |
| 1 | 33 | 8:53:48 AM | 8:53:53 AM | 5 |
| 1 | 34 | 8:53:57 AM | 8:54:10 AM | 13 |
| 1 | 35 | 8:54:05 AM | 8:54:27 AM | 22 |
| 1 | 36 | 8:54:19 AM | 8:54:42 AM | 23 |
| 1 | 37 | 8:55:10 AM | 8:55:36 AM | 26 |
| 1 | 38 | 8:56:48 AM | 8:56:58 AM | 10 |
| 1 | 39 | 8:58:30 AM | 8:58:49 AM | 19 |
| 2 | 1 | 8:00:01 AM | 8:00:01 AM | 0 |
| 2 | 2 | 8:04:12 AM | 8:04:19 AM | 7 |
| 2 | 3 | 8:05:01 AM | 8:05:32 AM | 31 |
| 2 | 4 | 8:05:02 AM | 8:05:34 AM | 32 |
| 2 | 5 | 8:05:42 AM | 8:05:50 AM | 8 |
| 2 | 6 | 8:06:01 AM | 8:06:02 AM | 1 |
| 2 | 7 | 8:06:32 AM | 8:06:34 AM | 2 |
| 2 | 8 | 8:08:19 AM | 8:08:23 AM | 4 |
| 2 | 9 | 8:08:39 AM | 8:08:43 AM | 4 |
| 2 | 10 | 8:10:33 AM | 8:10:37 AM | 4 |
| 2 | 11 | 8:11:24 AM | 8:11:43 AM | 19 |
| 2 | 12 | 8:13:08 AM | 8:13:14 AM | 6 |
| 2 | 13 | 8:13:31 AM | 8:13:34 AM | 3 |
| 2 | 14 | 8:14:54 AM | 8:14:57 AM | 3 |
| 2 | 15 | 8:16:00 AM | 8:16:10 AM | 10 |
| 2 | 16 | 8:17:54 AM | 8:18:08 AM | 14 |
| 2 | 17 | 8:20:00 AM | 8:20:03 AM | 3 |
| 2 | 18 | 8:21:02 AM | 8:21:08 AM | 6 |
| 2 | 19 | 8:21:14 AM | 8:21:17 AM | 3 |
| 2 | 20 | 8:21:29 AM | 8:21:32 AM | 3 |
| 2 | 21 | 8:23:37 AM | 8:24:00 AM | 23 |
| 2 | 22 | 8:25:55 AM | 8:25:59 AM | 4 |
| 2 | 23 | 8:27:50 AM | 8:27:55 AM | 5 |
| 2 | 24 | 8:28:03 AM | 8:28:05 AM | 2 |

File Name : Delay 8-9
Site Code : 00000000
Start Date : 10/13/2015
Page No : 2

| L |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| n. | No. | Joined Queue | Released From <br> Queue | Delay |
| 2 | 25 | $8: 30: 45$ AM | $8: 31: 23$ AM | 38 |
| 2 | 26 | $8: 34: 41$ AM | $8: 34: 47$ AM | 6 |
| 2 | 27 | $8: 34: 43$ AM | $8: 34: 50$ AM | 7 |
| 2 | 28 | $8: 39: 13$ AM | $8: 39: 19$ AM | 6 |
| 2 | 29 | $8: 40: 14$ AM | $8: 40: 28$ AM | 14 |
| 2 | 30 | $8: 41: 39$ AM | $8: 41: 43$ AM | 4 |
| 2 | 31 | $8: 43: 46$ AM | $8: 43: 49$ AM | 3 |
| 2 | 32 | $8: 44: 45$ AM | $8: 44: 54$ AM | 9 |
| 2 | 33 | $8: 45: 27$ AM | $8: 45: 30$ AM | 3 |
| 2 | 34 | $8: 45: 32$ AM | $8: 45: 33$ AM | 1 |
| 2 | 35 | $8: 45: 44$ AM | $8: 45: 46$ AM | 2 |
| 2 | 36 | $8: 47: 20$ AM | $8: 47: 22$ AM | 2 |
| 2 | 37 | $8: 48: 13$ AM | $8: 48: 16$ AM | 3 |
| 2 | 38 | $8: 48: 15$ AM | $8: 48: 39$ AM | 24 |
| 2 | 39 | $8: 49: 42$ AM | $8: 50: 10$ AM | 28 |
| 2 | 40 | $8: 50: 43$ AM | $8: 50: 45$ AM | 2 |
| 2 | 41 | $8: 54: 25$ AM | $8: 54: 30$ AM | 5 |
| 2 | 42 | $8: 55: 13$ AM | $8: 55: 20$ AM | 7 |
| 2 | 43 | $8: 56: 00$ AM | $8: 56: 02$ AM | 2 |
| 2 | 44 | $8: 56: 33$ AM | $8: 56: 38$ AM | 5 |
| 2 | 45 | $8: 56: 57$ AM | $8: 56: 59$ AM | 2 |
| 2 | 46 | $8: 57: 13$ AM | $8: 57: 27$ AM | 14 |
| 2 | 47 | $8: 57: 20$ AM | $8: 57: 28$ AM | 8 |
| 2 | 48 | $8: 57: 41$ AM | $8: 57: 50$ AM | 9 |
| 2 | 49 | $8: 58: 11$ AM | $8: 58: 20$ AM | 9 |
| 2 | 50 | $8: 59: 27$ AM | $8: 59: 30$ AM | 3 |
| 2 | 51 | $8: 59: 32$ AM | $8: 59: 34$ AM | 2 |

Summary Information:

| 8:00:00 AM - 9:00:00 AM | EB | NBL |
| :--- | :--- | :--- |
| Total Vehicle Count: | 39 | 51 |
| Delayed Vehicle Count: | 39 | 51 |
| Through Vehicle Count: | 0 | 0 |
| Average Stopped Time: | 15.54 | 8.137 |
| Maximum Stopped Time: | 51 | 38 |
| Min. Secs. for Delay: | 0 | 0 |
| Average Queue: | 0.19 | 0.116 |
| Queue Density: | 1.06 | 1.113 |
| Maximum Queue: | 2 | 2 |
| Delay in Vehicle Hour: | 0.19 | 0.12 |
| Total Delay: | 606 | 415 |

File Name : Delay 12-1
Site Code : 00000000
Start Date : 10/13/2015
Page No : 1

| $\begin{aligned} & \mathrm{L} \\ & \mathrm{n} . \end{aligned}$ | No. | Joined Queue | Released From Queue | Delay |
| :---: | :---: | :---: | :---: | :---: |
| 1 | 1 | 12:00:00 PM | 12:00:01 PM | 1 |
| 1 | 2 | 12:01:01 PM | 12:01:07 PM | 6 |
| 1 | 3 | 12:01:11 PM | 12:01:38 PM | 27 |
| 1 | 4 | 12:02:21 PM | 12:02:53 PM | 32 |
| 1 | 5 | 12:02:50 PM | 12:03:13 PM | 23 |
| 1 | 6 | 12:03:59 PM | 12:04:07 PM | 8 |
| 1 | 7 | 12:06:07 PM | 12:06:14 PM | 7 |
| 1 | 8 | 12:07:46 PM | 12:08:57 PM | 71 |
| 1 | 9 | 12:08:52 PM | 12:09:27 PM | 35 |
| 1 | 10 | 12:11:24 PM | 12:11:40 PM | 16 |
| 1 | 11 | 12:11:58 PM | 12:12:17 PM | 19 |
| 1 | 12 | 12:13:28 PM | 12:13:51 PM | 23 |
| 1 | 13 | 12:15:14 PM | 12:15:36 PM | 22 |
| 1 | 14 | 12:15:44 PM | 12:15:52 PM | 8 |
| 1 | 15 | 12:16:29 PM | 12:16:42 PM | 13 |
| 1 | 16 | 12:17:25 PM | 12:17:35 PM | 10 |
| 1 | 17 | 12:17:39 PM | 12:18:19 PM | 40 |
| 1 | 18 | 12:17:49 PM | 12:18:24 PM | 35 |
| 1 | 19 | 12:18:34 PM | 12:18:47 PM | 13 |
| 1 | 20 | 12:20:46 PM | 12:20:55 PM | 9 |
| 1 | 21 | 12:20:58 PM | 12:21:08 PM | 10 |
| 1 | 22 | 12:23:19 PM | 12:24:30 PM | 71 |
| 1 | 23 | 12:25:12 PM | 12:25:37 PM | 25 |
| 1 | 24 | 12:25:18 PM | 12:25:51 PM | 33 |
| 1 | 25 | 12:29:02 PM | 12:29:06 PM | 4 |
| 1 | 26 | 12:30:29 PM | 12:30:44 PM | 15 |
| 1 | 27 | 12:33:21 PM | 12:33:28 PM | 7 |
| 1 | 28 | 12:34:24 PM | 12:34:34 PM | 10 |
| 1 | 29 | 12:34:45 PM | 12:34:53 PM | 8 |
| 1 | 30 | 12:35:23 PM | 12:35:44 PM | 21 |
| 1 | 31 | 12:36:26 PM | 12:36:36 PM | 10 |
| 1 | 32 | 12:37:51 PM | 12:38:13 PM | 22 |
| 1 | 33 | 12:37:55 PM | 12:38:20 PM | 25 |
| 1 | 34 | 12:38:19 PM | 12:38:25 PM | 6 |
| 1 | 35 | 12:38:27 PM | 12:39:05 PM | 38 |
| 1 | 36 | 12:38:51 PM | 12:39:14 PM | 23 |
| 1 | 37 | 12:38:59 PM | 12:39:53 PM | 54 |
| 1 | 38 | 12:39:02 PM | 12:39:56 PM | 54 |
| 1 | 39 | 12:41:05 PM | 12:42:09 PM | 64 |
| 1 | 40 | 12:43:31 PM | 12:43:42 PM | 11 |
| 1 | 41 | 12:44:00 PM | 12:44:05 PM | 5 |
| 1 | 42 | 12:44:57 PM | 12:45:42 PM | 45 |
| 1 | 43 | 12:46:26 PM | 12:46:48 PM | 22 |
| 1 | 44 | 12:46:36 PM | 12:46:55 PM | 19 |
| 1 | 45 | 12:47:38 PM | 12:47:49 PM | 11 |
| 1 | 46 | 12:48:22 PM | 12:48:29 PM | 7 |
| 1 | 47 | 12:49:46 PM | 12:49:59 PM | 13 |
| 1 | 48 | 12:53:43 PM | 12:54:38 PM | 55 |
| 1 | 49 | 12:54:35 PM | 12:54:43 PM | 8 |
| 1 | 50 | 12:55:04 PM | 12:55:41 PM | 37 |
| 1 | 51 | 12:55:35 PM | 12:55:56 PM | 21 |
| 1 | 52 | 12:57:17 PM | 12:57:35 PM | 18 |
| 1 | 53 | 12:58:51 PM | 12:58:58 PM | 7 |
| 1 | 54 | 12:59:33 PM | 12:59:50 PM | 17 |
| 2 | 1 | 12:00:57 PM | 12:00:58 PM | 1 |
| 2 | 2 | 12:03:00 PM | 12:03:15 PM | 15 |
| 2 | 3 | 12:03:14 PM | 12:03:22 PM | 8 |
| 2 | 4 | 12:04:27 PM | 12:04:31 PM | 4 |
| 2 | 5 | 12:05:52 PM | 12:06:00 PM | 8 |
| 2 | 6 | 12:08:00 PM | 12:08:07 PM | 7 |
| 2 | 7 | 12:08:18 PM | 12:09:28 PM | 70 |
| 2 | 8 | 12:12:17 PM | 12:12:38 PM | 21 |
| 2 | 9 | 12:12:33 PM | 12:12:41 PM | 8 |

File Name: Delay 12-1
Site Code : 00000000
Start Date : 10/13/2015
Page No :2

| $\begin{aligned} & \mathrm{L} \\ & \mathrm{n} . \end{aligned}$ | No. | Joined Queue | Released From Queue | Delay |
| :---: | :---: | :---: | :---: | :---: |
| 2 | 10 | 12:12:34 PM | 12:12:43 PM | 9 |
| 2 | 11 | 12:12:35 PM | 12:12:53 PM | 18 |
| 2 | 12 | 12:13:02 PM | 12:14:13 PM | 71 |
| 2 | 13 | 12:19:09 PM | 12:19:11 PM | 2 |
| 2 | 14 | 12:19:43 PM | 12:20:12 PM | 29 |
| 2 | 15 | 12:30:46 PM | 12:30:51 PM | 5 |
| 2 | 16 | 12:35:45 PM | 12:35:47 PM | 2 |
| 2 | 17 | 12:36:09 PM | 12:36:10 PM | 1 |
| 2 | 18 | 12:37:35 PM | 12:37:53 PM | 18 |
| 2 | 19 | 12:42:36 PM | 12:42:45 PM | 9 |
| 2 | 20 | 12:43:50 PM | 12:43:59 PM | 9 |
| 2 | 21 | 12:44:07 PM | 12:44:17 PM | 10 |
| 2 | 22 | 12:45:45 PM | 12:45:49 PM | 4 |
| 2 | 23 | 12:46:16 PM | 12:46:27 PM | 11 |
| 2 | 24 | 12:52:42 PM | 12:52:50 PM | 8 |
| 2 | 25 | 12:52:49 PM | 12:53:00 PM | 11 |
| 2 | 26 | 12:53:26 PM | 12:53:33 PM | 7 |
| 2 | 27 | 12:54:05 PM | 12:54:11 PM | 6 |
| 2 | 28 | 12:54:19 PM | 12:54:29 PM | 10 |
| 2 | 29 | 12:54:50 PM | 12:54:53 PM | 3 |
| 2 | 30 | 12:55:44 PM | 12:55:58 PM | 14 |

Summary Information:

| 12:00:00 PM - 1:00:00 PM | EB | NBL |
| :--- | :--- | :--- |
| Total Vehicle Count: | 54 | 30 |
| Delayed Vehicle Count: | 54 | 30 |
| Through Vehicle Count: | 0 | 0 |
| Average Stopped Time: | 22.48 | 13.300 |
| Maximum Stopped Time: | 71 | 71 |
| Min. Secs. for Delay: | 0 | 0 |
| Average Queue: | 0.34 | 0.121 |
| Queue Density: | 1.17 | 1.059 |
| Maximum Queue: | 4 | 4 |
| Delay in Vehicle Hour: | 0.34 | 0.12 |
| Total Delay: | 1214 | 399 |

File Name : Delay 7-8pm
Site Code : 00000000
Start Date : 10/13/2015
Page No : 1

| L n. | No. | Joined Queue | Released From Queue | Delay |
| :---: | :---: | :---: | :---: | :---: |
| 1 | 1 | 7:00:00 PM | 7:00:01 PM | 1 |
| 1 | 2 | 7:01:36 PM | 7:01:59 PM | 23 |
| 1 | 3 | 7:02:27 PM | 7:02:29 PM | 2 |
| 1 | 4 | 7:04:01 PM | 7:04:04 PM | 3 |
| 1 | 5 | 7:04:10 PM | 7:04:33 PM | 23 |
| 1 | 6 | 7:04:29 PM | 7:04:45 PM | 16 |
| 1 | 7 | 7:04:44 PM | 7:04:56 PM | 12 |
| 1 | 8 | 7:05:31 PM | 7:05:54 PM | 23 |
| 1 | 9 | 7:05:33 PM | 7:05:56 PM | 23 |
| 1 | 10 | 7:05:58 PM | 7:06:05 PM | 7 |
| 1 | 11 | 7:06:01 PM | 7:06:13 PM | 12 |
| 1 | 12 | 7:06:48 PM | 7:07:01 PM | 13 |
| 1 | 13 | 7:06:51 PM | 7:07:06 PM | 15 |
| 1 | 14 | 7:07:03 PM | 7:07:10 PM | 7 |
| 1 | 15 | 7:07:12 PM | 7:07:20 PM | 8 |
| 1 | 16 | 7:07:15 PM | 7:07:29 PM | 14 |
| 1 | 17 | 7:07:33 PM | 7:08:01 PM | 28 |
| 1 | 18 | 7:07:48 PM | 7:08:06 PM | 18 |
| 1 | 19 | 7:08:21 PM | 7:08:27 PM | 6 |
| 1 | 20 | 7:08:37 PM | 7:09:20 PM | 43 |
| 1 | 21 | 7:08:42 PM | 7:09:21 PM | 39 |
| 1 | 22 | 7:08:48 PM | 7:09:26 PM | 38 |
| 1 | 23 | 7:08:57 PM | 7:09:28 PM | 31 |
| 1 | 24 | 7:09:07 PM | 7:09:36 PM | 29 |
| 1 | 25 | 7:09:23 PM | 7:09:43 PM | 20 |
| 1 | 26 | 7:09:24 PM | 7:09:46 PM | 22 |
| 1 | 27 | 7:09:41 PM | 7:09:49 PM | 8 |
| 1 | 28 | 7:10:18 PM | 7:10:25 PM | 7 |
| 1 | 29 | 7:10:22 PM | 7:10:43 PM | 21 |
| 1 | 30 | 7:10:26 PM | 7:11:04 PM | 38 |
| 1 | 31 | 7:10:28 PM | 7:11:23 PM | 55 |
| 1 | 32 | 7:10:34 PM | 7:11:28 PM | 54 |
| 1 | 33 | 7:10:40 PM | 7:11:41 PM | 61 |
| 1 | 34 | 7:10:41 PM | 7:12:00 PM | 79 |
| 1 | 35 | 7:10:47 PM | 7:12:02 PM | 75 |
| 1 | 36 | 7:11:04 PM | 7:12:14 PM | 70 |
| 1 | 37 | 7:11:19 PM | 7:12:15 PM | 56 |
| 1 | 38 | 7:11:25 PM | 7:12:48 PM | 83 |
| 1 | 39 | 7:11:29 PM | 7:12:54 PM | 85 |
| 1 | 40 | 7:11:30 PM | 7:13:03 PM | 93 |
| 1 | 41 | 7:12:06 PM | 7:13:09 PM | 63 |
| 1 | 42 | 7:12:22 PM | 7:13:11 PM | 49 |
| 1 | 43 | 7:12:25 PM | 7:13:18 PM | 53 |
| 1 | 44 | 7:12:38 PM | 7:13:20 PM | 42 |
| 1 | 45 | 7:12:53 PM | 7:13:23 PM | 30 |
| 1 | 46 | 7:13:48 PM | 7:14:01 PM | 13 |
| 1 | 47 | 7:13:57 PM | 7:14:28 PM | 31 |
| 1 | 48 | 7:14:11 PM | 7:14:38 PM | 27 |
| 1 | 49 | 7:15:49 PM | 7:15:50 PM | 1 |
| 1 | 50 | 7:15:51 PM | 7:15:53 PM | 2 |
| 1 | 51 | 7:15:52 PM | 7:15:58 PM | 6 |
| 1 | 52 | 7:16:14 PM | 7:16:17 PM | 3 |
| 1 | 53 | 7:16:23 PM | 7:16:46 PM | 23 |
| 1 | 54 | 7:16:31 PM | 7:16:57 PM | 26 |
| 1 | 55 | 7:17:36 PM | 7:17:51 PM | 15 |
| 1 | 56 | 7:17:41 PM | 7:17:52 PM | 11 |
| 1 | 57 | 7:17:44 PM | 7:17:56 PM | 12 |
| 1 | 58 | 7:17:57 PM | 7:18:00 PM | 3 |
| 1 | 59 | 7:19:12 PM | 7:19:16 PM | 4 |
| 1 | 60 | 7:20:09 PM | 7:20:22 PM | 13 |
| 1 | 61 | 7:20:19 PM | 7:20:24 PM | 5 |
| 1 | 62 | 7:20:34 PM | 7:20:56 PM | 22 |
| 1 | 63 | 7:21:30 PM | 7:22:20 PM | 50 |

File Name : Delay 7-8pm
Site Code : 00000000
Start Date : 10/13/2015
Page No : 2

| L | No. | Joined Queue | Released From Queue | Delay |
| :---: | :---: | :---: | :---: | :---: |
| 1 | 64 | 7:22:35 PM | 7:22:48 PM | 13 |
| 1 | 65 | 7:22:36 PM | 7:22:51 PM | 15 |
| 1 | 66 | 7:22:41 PM | 7:22:56 PM | 15 |
| 1 | 67 | 7:23:45 PM | 7:23:59 PM | 14 |
| 1 | 68 | 7:24:36 PM | 7:24:55 PM | 19 |
| 1 | 69 | 7:25:31 PM | 7:25:50 PM | 19 |
| 1 | 70 | 7:27:13 PM | 7:27:14 PM | 1 |
| 1 | 71 | 7:27:52 PM | 7:28:03 PM | 11 |
| 1 | 72 | 7:29:01 PM | 7:29:03 PM | 2 |
| 1 | 73 | 7:29:20 PM | 7:29:27 PM | 7 |
| 1 | 74 | 7:29:35 PM | 7:29:43 PM | 8 |
| 1 | 75 | 7:30:14 PM | 7:30:24 PM | 10 |
| 1 | 76 | 7:31:18 PM | 7:31:29 PM | 11 |
| 1 | 77 | 7:31:19 PM | 7:31:44 PM | 25 |
| 1 | 78 | 7:31:37 PM | 7:32:06 PM | 29 |
| 1 | 79 | 7:31:45 PM | 7:32:09 PM | 24 |
| 1 | 80 | 7:31:57 PM | 7:32:12 PM | 15 |
| 1 | 81 | 7:33:16 PM | 7:33:27 PM | 11 |
| 1 | 82 | 7:34:24 PM | 7:34:33 PM | 9 |
| 1 | 83 | 7:34:55 PM | 7:35:24 PM | 29 |
| 1 | 84 | 7:34:58 PM | 7:35:26 PM | 28 |
| 1 | 85 | 7:37:45 PM | 7:38:04 PM | 19 |
| 1 | 86 | 7:41:57 PM | 7:42:14 PM | 17 |
| 1 | 87 | 7:42:49 PM | 7:43:16 PM | 27 |
| 1 | 88 | 7:43:06 PM | 7:43:31 PM | 25 |
| 1 | 89 | 7:43:29 PM | 7:43:48 PM | 19 |
| 1 | 90 | 7:43:39 PM | 7:43:54 PM | 15 |
| 1 | 91 | 7:44:15 PM | 7:44:26 PM | 11 |
| 1 | 92 | 7:45:24 PM | 7:45:31 PM | 7 |
| 1 | 93 | 7:45:32 PM | 7:45:40 PM | 8 |
| 1 | 94 | 7:45:34 PM | 7:45:42 PM | 8 |
| 1 | 95 | 7:45:45 PM | 7:45:50 PM | 5 |
| 1 | 96 | 7:46:46 PM | 7:46:55 PM | 9 |
| 1 | 97 | 7:46:53 PM | 7:47:00 PM | 7 |
| 1 | 98 | 7:47:37 PM | 7:47:45 PM | 8 |
| 1 | 99 | 7:47:55 PM | 7:48:06 PM | 11 |
| 1 | 100 | 7:48:40 PM | 7:48:42 PM | 2 |
| 1 | 101 | 7:49:15 PM | 7:49:22 PM | 7 |
| 1 | 102 | 7:49:18 PM | 7:49:31 PM | 13 |
| 1 | 103 | 7:49:35 PM | 7:49:41 PM | 6 |
| 1 | 104 | 7:49:56 PM | 7:50:04 PM | 8 |
| 1 | 105 | 7:50:02 PM | 7:50:07 PM | 5 |
| 1 | 106 | 7:50:12 PM | 7:50:22 PM | 10 |
| 1 | 107 | 7:50:43 PM | 7:50:49 PM | 6 |
| 1 | 108 | 7:50:54 PM | 7:51:01 PM | 7 |
| 1 | 109 | 7:51:02 PM | 7:51:06 PM | 4 |
| 1 | 110 | 7:51:10 PM | 7:51:49 PM | 39 |
| 1 | 111 | 7:51:26 PM | 7:52:03 PM | 37 |
| 1 | 112 | 7:51:36 PM | 7:52:07 PM | 31 |
| 1 | 113 | 7:51:59 PM | 7:52:13 PM | 14 |
| 1 | 114 | 7:52:33 PM | 7:52:43 PM | 10 |
| 1 | 115 | 7:52:42 PM | 7:52:51 PM | 9 |
| 1 | 116 | 7:52:59 PM | 7:53:23 PM | 24 |
| 1 | 117 | 7:53:00 PM | 7:53:27 PM | 27 |
| 1 | 118 | 7:53:02 PM | 7:53:33 PM | 31 |
| 1 | 119 | 7:53:03 PM | 7:53:46 PM | 43 |
| 1 | 120 | 7:53:08 PM | 7:53:57 PM | 49 |
| 1 | 121 | 7:53:48 PM | 7:54:14 PM | 26 |
| 1 | 122 | 7:54:08 PM | 7:54:31 PM | 23 |
| 1 | 123 | 7:55:09 PM | 7:55:16 PM | 7 |
| 1 | 124 | 7:55:11 PM | 7:55:23 PM | 12 |
| 1 | 125 | 7:55:18 PM | 7:55:30 PM | 12 |
| 1 | 126 | 7:56:05 PM | 7:56:20 PM | 15 |

File Name : Delay 7-8pm
Site Code : 00000000
Start Date : 10/13/2015
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| $\begin{aligned} & \mathrm{L} \\ & \mathrm{n} . \\ & \hline \end{aligned}$ | No. | Joined Queue | Released From Queue | Delay |
| :---: | :---: | :---: | :---: | :---: |
| 1 | 127 | 7:56:40 PM | 7:56:47 PM | 7 |
| 1 | 128 | 7:56:52 PM | 7:57:11 PM | 19 |
| 1 | 129 | 7:57:01 PM | 7:57:14 PM | 13 |
| 1 | 130 | 7:58:37 PM | 7:59:12 PM | 35 |
| 1 | 131 | 7:58:41 PM | 7:59:19 PM | 38 |
| 1 | 132 | 7:58:53 PM | 7:59:22 PM | 29 |
| 1 | 133 | 7:59:44 PM | 7:59:50 PM | 6 |
| 1 | 134 | 8:00:03 PM | 8:00:10 PM | 7 |
| 1 | 135 | 8:00:42 PM | 8:01:04 PM | 22 |
| 2 | 1 | 7:01:02 PM | 7:01:05 PM | 3 |
| 2 | 2 | 7:01:22 PM | 7:01:28 PM | 6 |
| 2 | 3 | 7:06:01 PM | 7:06:02 PM | 1 |
| 2 | 4 | 7:06:47 PM | 7:06:58 PM | 11 |
| 2 | 5 | 7:07:31 PM | 7:07:34 PM | 3 |
| 2 | 6 | 7:07:41 PM | 7:08:02 PM | 21 |
| 2 | 7 | 7:11:12 PM | 7:11:15 PM | 3 |
| 2 | 8 | 7:13:30 PM | 7:13:53 PM | 23 |
| 2 | 9 | 7:16:22 PM | 7:16:36 PM | 14 |
| 2 | 10 | 7:16:45 PM | 7:16:48 PM | 3 |
| 2 | 11 | 7:18:31 PM | 7:18:33 PM | 2 |
| 2 | 12 | 7:20:11 PM | 7:20:14 PM | 3 |
| 2 | 13 | 7:21:14 PM | 7:21:24 PM | 10 |
| 2 | 14 | 7:21:33 PM | 7:22:14 PM | 41 |
| 2 | 15 | 7:28:08 PM | 7:28:21 PM | 13 |
| 2 | 16 | 7:31:48 PM | 7:31:56 PM | 13 |
| 2 | 17 | 7:31:52 PM | 7:32:03 PM | 11 |
| 2 | 18 | 7:32:42 PM | 7:32:54 PM | 12 |
| 2 | 19 | 7:33:40 PM | 7:33:46 PM | 6 |
| 2 | 20 | 7:36:34 PM | 7:36:42 PM | 8 |
| 2 | 21 | 7:37:02 PM | 7:37:07 PM | 5 |
| 2 | 22 | 7:37:45 PM | 7:37:52 PM | 7 |
| 2 | 23 | 7:39:42 PM | 7:39:45 PM | 3 |
| 2 | 24 | 7:40:11 PM | 7:40:13 PM | 2 |
| 2 | 25 | 7:40:57 PM | 7:41:11 PM | 14 |
| 2 | 26 | 7:46:07 PM | 7:46:10 PM | 3 |
| 2 | 27 | 7:49:11 PM | 7:49:17 PM | 6 |
| 2 | 28 | 7:51:32 PM | 7:51:42 PM | 10 |
| 2 | 29 | 7:54:05 PM | 7:54:38 PM | 33 |

Summary Information:

| 7:00:00 PM - 8:02:00 PM | EB | NBL |
| :--- | :--- | :--- |
| Total Vehicle Count: | 135 | 29 |
| Delayed Vehicle Count: | 135 | 29 |
| Through Vehicle Count: | 0 | 0 |
| Average Stopped Time: | 21.70 | 9.828 |
| Maximum Stopped Time: | 93 | 41 |
| Min. Secs. for Delay: | 0 | 0 |
| Average Queue: | 0.80 | 0.088 |
| Queue Density: | 2.06 | 1.014 |
| Maximum Queue: | 8 | 2 |
| Delay in Vehicle Hour: | 0.80 | 0.09 |
| Total Delay: | 2929 | 285 |


| TWO-WAY STOP CONTROL SUMMARY |  |  |  |
| :---: | :---: | :---: | :---: |
| General Information |  | Site Information |  |
| Analyst | Vischal | Intersection | US 1/Turgot (Existing) |
| Agency/Co. | TEDS | Jurisdiction |  |
| Date Performed | 10/29/2015 | Analysis Year | 2015 |
| Analysis Time Period | 8:00 AM to 9:00 AM |  |  |
| Project Description |  |  |  |
| East/West Street: Turgot Avenue |  | North/South Street: US 1 |  |
| Intersection Orientation | th-South | Study Period (hrs): 0.25 |  |

Vehicle Volumes and Adjustments

| Major Street | Northbound |  |  | Southbound |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | 1 | 2 | 3 | 4 | 5 | 6 |
|  | L | T | R | L | T | R |
| Volume (veh/h) | 56 | 1131 | 6 | 9 | 735 | 32 |
| Peak-Hour Factor, PHF | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Hourly Flow Rate, HFR (veh/h) | 59 | 1203 | 6 | 9 | 781 | 34 |
| Percent Heavy Vehicles | 2 | -- | -- | 2 | -- | -- |
| Median Type | Raised curb |  |  |  |  |  |
| RT Channelized |  |  | 0 |  |  | 0 |
| Lanes | 1 | 2 | 0 | 1 | 2 | 0 |
| Configuration | L | T | TR | L | T | TR |
| Upstream Signal |  | 0 |  |  | 0 |  |
| Minor Street | Eastbound |  |  | Westbound |  |  |
| Movement | 7 | 8 | 9 | 10 | 11 | 12 |
|  | L | T | R | L | T | R |
| Volume (veh/h) | 37 | 0 | 35 | 4 | 1 | 6 |
| Peak-Hour Factor, PHF | 0.51 | 0.51 | 0.51 | 0.94 | 0.94 | 0.94 |
| Hourly Flow Rate, HFR (veh/h) | 72 | 0 | 68 | 4 | 1 | 6 |
| Percent Heavy Vehicles | 2 | 2 | 2 | 2 | 2 | 2 |
| Percent Grade (\%) | 0 |  |  | 0 |  |  |
| Flared Approach |  | $N$ |  |  | $N$ |  |
| Storage |  | 0 |  |  | 0 |  |
| RT Channelized |  |  | 0 |  |  | 0 |
| Lanes | 0 | 1 | 0 | 0 | 1 | 0 |
| Configuration |  | LTR |  |  | LTR |  |

Delay, Queue Length, and Level of Service

| Approach | Northbound | Southbound | Westbound |  |  | Eastbound |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | 1 | 4 | 7 | 8 | 9 | 10 | 11 | 12 |
| Lane Configuration | L | L |  | LTR |  |  | LTR |  |
| v (veh/h) | 59 | 9 |  | 11 |  |  | 140 |  |
| C (m) (veh/h) | 808 | 573 |  | 208 |  |  | 285 |  |
| v/c | 0.07 | 0.02 |  | 0.05 |  |  | 0.49 |  |
| 95\% queue length | 0.24 | 0.05 |  | 0.17 |  |  | 2.54 |  |
| Control Delay (s/veh) | 9.8 | 11.4 |  | 23.3 |  |  | 29.2 |  |
| LOS | A | B |  | C |  |  | D |  |
| Approach Delay (s/veh) | -- | -- |  | 23.3 |  |  | 29.2 |  |
| Approach LOS | -- | -- |  | C |  |  | D |  |


| TWO-WAY STOP CONTROL SUMMARY |  |  |  |
| :---: | :---: | :---: | :---: |
| General Information |  | Site Information |  |
| Analyst | Vischal | Intersection | US 1/Turgot (Existing) |
| Agency/Co. | TEDS | Jurisdiction |  |
| Date Performed | 10/29/2015 | Analysis Year | 2015 |
| Analysis Time Period | 12:00 pm to 1:00 pm |  |  |
| Project Description |  |  |  |
| East/West Street: Turgot Avenue |  | North/South Street: US 1 |  |
| Intersection Orientation | orth-South | Study Period (hrs): 0.25 |  |

Vehicle Volumes and Adjustments

| Major Street | Northbound |  |  | Southbound |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | 1 | 2 | 3 | 4 | 5 | 6 |
|  | L | T | R | L | T | R |
| Volume (veh/h) | 15 | 947 | 3 | 23 | 915 | 20 |
| Peak-Hour Factor, PHF | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| Hourly Flow Rate, HFR (veh/h) | 16 | 1052 | 3 | 25 | 1016 | 22 |
| Percent Heavy Vehicles | 2 | -- | -- | 2 | -- | -- |
| Median Type | Raised curb |  |  |  |  |  |
| RT Channelized |  |  | 0 |  |  | 0 |
| Lanes | 1 | 2 | 0 | 1 | 2 | 0 |
| Configuration | L | T | TR | L | T | TR |
| Upstream Signal |  | 0 |  |  | 0 |  |
| Minor Street | Eastbound |  |  | Westbound |  |  |
| Movement | 7 | 8 | 9 | 10 | 11 | 12 |
|  | L | T | R | L | T | R |
| Volume (veh/h) | 22 | 0 | 30 | 6 | 1 | 8 |
| Peak-Hour Factor, PHF | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| Hourly Flow Rate, HFR (veh/h) | 24 | 0 | 33 | 6 | 1 | 8 |
| Percent Heavy Vehicles | 2 | 2 | 2 | 2 | 2 | 2 |
| Percent Grade (\%) | 0 |  |  | 0 |  |  |
| Flared Approach |  | $N$ |  |  | $N$ |  |
| Storage |  | 0 |  |  | 0 |  |
| RT Channelized |  |  | 0 |  |  | 0 |
| Lanes | 0 | 1 | 0 | 0 | 1 | 0 |
| Configuration |  | LTR |  |  | LTR |  |

## Delay, Queue Length, and Level of Service

| Approach | Northbound | Southbound | Westbound |  |  | Eastbound |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | 1 | 4 | 7 | 8 | 9 | 10 | 11 | 12 |
| Lane Configuration | L | L |  | LTR |  |  | LTR |  |
| v (veh/h) | 16 | 25 |  | 15 |  |  | 57 |  |
| C (m) (veh/h) | 665 | 656 |  | 252 |  |  | 273 |  |
| v/c | 0.02 | 0.04 |  | 0.06 |  |  | 0.21 |  |
| 95\% queue length | 0.07 | 0.12 |  | 0.19 |  |  | 0.77 |  |
| Control Delay (s/veh) | 10.5 | 10.7 |  | 20.2 |  |  | 21.6 |  |
| LOS | B | B |  | C |  |  | C |  |
| Approach Delay (s/veh) | -- | -- |  | 20.2 |  |  | 21.6 |  |
| Approach LOS | -- | -- |  | C |  |  | C |  |


| TWO-WAY STOP CONTROL SUMMARY |  |  |  |
| :---: | :---: | :---: | :---: |
| General Information |  | Site Information |  |
| Analyst | Vischal | Intersection | US 1/Turgot (Existing) |
| Agency/Co. | TEDS | Jurisdiction |  |
| Date Performed | 10/29/2015 | Analysis Year | 2015 |
| Analysis Time Period | 7:00 pm to 8:00 pm |  |  |
| Project Description |  |  |  |
| East/West Street: Turgot Avenue |  | North/South Street: US 1 |  |
| Intersection Orientation | rth-South | Study Period (hrs): 0.25 |  |

Vehicle Volumes and Adjustments

| Major Street | Northbound |  |  | Southbound |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | 1 | 2 | 3 | 4 | 5 | 6 |
|  | L | T | R | L | T | R |
| Volume (veh/h) | 27 | 568 | 10 | 20 | 805 | 35 |
| Peak-Hour Factor, PHF | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| Hourly Flow Rate, HFR (veh/h) | 30 | 631 | 11 | 22 | 894 | 38 |
| Percent Heavy Vehicles | 2 | -- | -- | 2 | -- | -- |
| Median Type | Raised curb |  |  |  |  |  |
| RT Channelized |  |  | 0 |  |  | 0 |
| Lanes | 1 | 2 | 0 | 1 | 2 | 0 |
| Configuration | L | T | TR | L | T | TR |
| Upstream Signal |  | 0 |  |  | 0 |  |
| Minor Street | Eastbound |  |  | Westbound |  |  |
| Movement | 7 | 8 | 9 | 10 | 11 | 12 |
|  | L | T | R | L | T | R |
| Volume (veh/h) | 82 | 3 | 128 | 8 | 0 | 1 |
| Peak-Hour Factor, PHF | 0.62 | 0.71 | 0.71 | 0.90 | 0.90 | 0.90 |
| Hourly Flow Rate, HFR (veh/h) | 132 | 4 | 180 | 8 | 0 | 1 |
| Percent Heavy Vehicles | 2 | 2 | 2 | 2 | 2 | 2 |
| Percent Grade (\%) | 0 |  |  | 0 |  |  |
| Flared Approach |  | $N$ |  |  | $N$ |  |
| Storage |  | 0 |  |  | 0 |  |
| RT Channelized |  |  | 0 |  |  | 0 |
| Lanes | 0 | 1 | 0 | 0 | 1 | 0 |
| Configuration |  | LTR |  |  | LTR |  |

## Delay, Queue Length, and Level of Service

| Approach | Northbound | Southbound | Westbound |  |  | Eastbound |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | 1 | 4 | 7 | 8 | 9 | 10 | 11 | 12 |
| Lane Configuration | L | L |  | LTR |  |  | LTR |  |
| v (veh/h) | 30 | 22 |  | 9 |  |  | 316 |  |
| C (m) (veh/h) | 730 | 939 |  | 220 |  |  | 330 |  |
| v/c | 0.04 | 0.02 |  | 0.04 |  |  | 0.96 |  |
| 95\% queue length | 0.13 | 0.07 |  | 0.13 |  |  | 10.05 |  |
| Control Delay (s/veh) | 10.1 | 8.9 |  | 22.1 |  |  | 75.6 |  |
| LOS | B | A |  | C |  |  | $F$ |  |
| Approach Delay (s/veh) | -- | -- | 22.1 |  |  | 75.6 |  |  |
| Approach LOS | -- | -- | C |  |  | $F$ |  |  |


| TWO-WAY STOP CONTROL SUMMARY |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| General Information |  | Site Information |  |  |
| Analyst | Vischal | Intersection |  | US 1/Turgot (Proposed) |
| Agency/Co. | TEDS | Jurisdiction |  |  |
| Date Performed | 10/29/2015 | Analysis Year |  | 2015 |
| Analysis Time Period | 8:00 AM to 9:00 AM |  |  |  |
| Project Description |  |  |  |  |
| East/West Street: Turgot Avenue |  | North/South Street: US 1 |  |  |
| Intersection Orientation: North-South |  | Study Period (hrs): 0.25 |  |  |

Vehicle Volumes and Adjustments

| Major Street | Northbound |  |  | Southbound |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | 1 | 2 | 3 | 4 | 5 | 6 |
|  | L | T | R | L | T | R |
| Volume (veh/h) | 56 | 1131 | 6 | 9 | 735 | 32 |
| Peak-Hour Factor, PHF | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Hourly Flow Rate, HFR (veh/h) | 59 | 1203 | 6 | 9 | 781 | 34 |
| Percent Heavy Vehicles | 2 | -- | -- | 2 | -- | -- |
| Median Type | Raised curb |  |  |  |  |  |
| RT Channelized |  |  | 0 |  |  | 0 |
| Lanes | 1 | 2 | 0 | 1 | 2 | 0 |
| Configuration | L | T | TR | L | T | TR |
| Upstream Signal |  | 0 |  |  | 0 |  |
| Minor Street | Eastbound |  |  | Westbound |  |  |
| Movement | 7 | 8 | 9 | 10 | 11 | 12 |
|  | L | T | R | L | T | R |
| Volume (veh/h) | 37 | 0 | 35 | 4 | 1 | 6 |
| Peak-Hour Factor, PHF | 0.51 | 0.51 | 0.51 | 0.94 | 0.94 | 0.94 |
| Hourly Flow Rate, HFR (veh/h) | 72 | 0 | 68 | 4 | 1 | 6 |
| Percent Heavy Vehicles | 2 | 2 | 2 | 2 | 2 | 2 |
| Percent Grade (\%) | 0 |  |  | 0 |  |  |
| Flared Approach |  | $N$ |  |  | $N$ |  |
| Storage |  | 0 |  |  | 0 |  |
| RT Channelized |  |  | 0 |  |  | 0 |
| Lanes | 0 | 1 | 1 | 0 | 1 | 0 |
| Configuration | LT |  | $R$ |  | LTR |  |

Delay, Queue Length, and Level of Service

| Approach | Northbound | Southbound | Westbound |  |  | Eastbound |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | 1 | 4 | 7 | 8 | 9 | 10 | 11 | 12 |
| Lane Configuration | L | L |  | LTR |  | LT |  | $R$ |
| v (veh/h) | 59 | 9 |  | 11 |  | 72 |  | 68 |
| C (m) (veh/h) | 808 | 573 |  | 208 |  | 187 |  | 641 |
| v/c | 0.07 | 0.02 |  | 0.05 |  | 0.39 |  | 0.11 |
| 95\% queue length | 0.24 | 0.05 |  | 0.17 |  | 1.68 |  | 0.35 |
| Control Delay (s/veh) | 9.8 | 11.4 |  | 23.3 |  | 35.8 |  | 11.3 |
| LOS | A | B |  | C |  | E |  | B |
| Approach Delay (s/veh) | -- | -- | 23.3 |  |  | 23.9 |  |  |
| Approach LOS | -- | -- | C |  |  | C |  |  |


| TWO-WAY STOP CONTROL SUMMARY |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| General Information |  | Site Information |  |  |
| Analyst | Vischal | Intersection |  | US 1/Turgot (Proposed) |
| Agency/Co. | TEDS | Jurisdiction |  |  |
| Date Performed | 10/29/2015 | Analysis Year |  | 2015 |
| Analysis Time Period | 12:00 pm to 1:00 pm |  |  |  |
| Project Description |  |  |  |  |
| East/West Street: Turgot Avenue |  | North/South Street: | US |  |
| Intersection Orientation | rth-South | Study Period (hrs): | 0.25 |  |

Vehicle Volumes and Adjustments

| Major Street | Northbound |  |  | Southbound |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | 1 | 2 | 3 | 4 | 5 | 6 |
|  | L | T | R | L | T | R |
| Volume (veh/h) | 15 | 947 | 3 | 23 | 915 | 20 |
| Peak-Hour Factor, PHF | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| Hourly Flow Rate, HFR (veh/h) | 16 | 1052 | 3 | 25 | 1016 | 22 |
| Percent Heavy Vehicles | 2 | -- | -- | 2 | -- | -- |
| Median Type | Raised curb |  |  |  |  |  |
| RT Channelized |  |  | 0 |  |  | 0 |
| Lanes | 1 | 2 | 0 | 1 | 2 | 0 |
| Configuration | L | T | TR | L | T | TR |
| Upstream Signal |  | 0 |  |  | 0 |  |
| Minor Street | Eastbound |  |  | Westbound |  |  |
| Movement | 7 | 8 | 9 | 10 | 11 | 12 |
|  | L | T | R | L | T | R |
| Volume (veh/h) | 22 | 0 | 30 | 6 | 1 | 8 |
| Peak-Hour Factor, PHF | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| Hourly Flow Rate, HFR (veh/h) | 24 | 0 | 33 | 6 | 1 | 8 |
| Percent Heavy Vehicles | 2 | 2 | 2 | 2 | 2 | 2 |
| Percent Grade (\%) | 0 |  |  | 0 |  |  |
| Flared Approach |  | N |  |  | $N$ |  |
| Storage |  | 0 |  |  | 0 |  |
| RT Channelized |  |  | 0 |  |  | 0 |
| Lanes | 0 | 1 | 1 | 0 | 1 | 0 |
| Configuration | LT |  | $R$ |  | LTR |  |

Delay, Queue Length, and Level of Service

| Approach | Northbound | Southbound | Westbound |  |  | Eastbound |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | 1 | 4 | 7 | 8 | 9 | 10 | 11 | 12 |
| Lane Configuration | $L$ | $L$ |  | $L T R$ |  | $L T$ |  | $R$ |
| v (veh/h) | 16 | 25 |  | 15 |  | 24 |  | 33 |
| C (m) (veh/h) | 665 | 656 |  | 252 |  | 161 |  | 555 |
| v/c | 0.02 | 0.04 |  | 0.06 |  | 0.15 |  | 0.06 |
| $95 \%$ queue length | 0.07 | 0.12 |  | 0.19 |  | 0.51 |  | 0.19 |
| Control Delay (s/veh) | 10.5 | 10.7 |  | 20.2 |  | 31.2 |  | 11.9 |
| LOS | $B$ | $B$ |  | $C$ |  | $D$ |  | $B$ |
| Approach Delay (s/veh) | -- | -- |  | 20.2 |  | 20.0 |  | $C$ |
| Approach LOS | -- | -- | $C$ | $C$ |  |  |  |  |


| TWO-WAY STOP CONTROL SUMMARY |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| General Information |  | Site Information |  |  |
| Analyst | Vischal | Intersection |  | US 1/Turgot (Proposed) |
| Agency/Co. | TEDS | Jurisdiction |  |  |
| Date Performed | 10/29/2015 | Analysis Year |  | 2015 |
| Analysis Time Period | 7:00 pm to 8:00 pm |  |  |  |
| Project Description |  |  |  |  |
| East/West Street: Turgot Avenue |  | North/South Street: | US 1 |  |
| Intersection Orientation | rth-South | Study Period (hrs): | 0.25 |  |

Vehicle Volumes and Adjustments

| Major Street | Northbound |  |  | Southbound |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | 1 | 2 | 3 | 4 | 5 | 6 |
|  | L | T | R | L | T | R |
| Volume (veh/h) | 27 | 568 | 10 | 20 | 805 | 35 |
| Peak-Hour Factor, PHF | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| Hourly Flow Rate, HFR (veh/h) | 30 | 631 | 11 | 22 | 894 | 38 |
| Percent Heavy Vehicles | 2 | -- | -- | 2 | -- | -- |
| Median Type | Raised curb |  |  |  |  |  |
| RT Channelized |  |  | 0 |  |  | 0 |
| Lanes | 1 | 2 | 0 | 1 | 2 | 0 |
| Configuration | L | T | TR | L | T | TR |
| Upstream Signal |  | 0 |  |  | 0 |  |
| Minor Street | Eastbound |  |  | Westbound |  |  |
| Movement | 7 | 8 | 9 | 10 | 11 | 12 |
|  | L | T | R | L | T | R |
| Volume (veh/h) | 82 | 3 | 128 | 8 | 0 | 1 |
| Peak-Hour Factor, PHF | 0.62 | 0.71 | 0.71 | 0.90 | 0.90 | 0.90 |
| Hourly Flow Rate, HFR (veh/h) | 132 | 4 | 180 | 8 | 0 | 1 |
| Percent Heavy Vehicles | 2 | 2 | 2 | 2 | 2 | 2 |
| Percent Grade (\%) | 0 |  |  | 0 |  |  |
| Flared Approach |  | $N$ |  |  | $N$ |  |
| Storage |  | 0 |  |  | 0 |  |
| RT Channelized |  |  | 0 |  |  | 0 |
| Lanes | 0 | 1 | 1 | 0 | 1 | 0 |
| Configuration | LT |  | $R$ |  | LTR |  |

Delay, Queue Length, and Level of Service

| Approach | Northbound | Southbound | Westbound |  |  | Eastbound |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | 1 | 4 | 7 | 8 | 9 | 10 | 11 | 12 |
| Lane Configuration | L | L |  | LTR |  | LT |  | $R$ |
| v (veh/h) | 30 | 22 |  | 9 |  | 136 |  | 180 |
| C (m) (veh/h) | 730 | 939 |  | 220 |  | 208 |  | 595 |
| v/c | 0.04 | 0.02 |  | 0.04 |  | 0.65 |  | 0.30 |
| 95\% queue length | 0.13 | 0.07 |  | 0.13 |  | 3.94 |  | 1.27 |
| Control Delay (s/veh) | 10.1 | 8.9 |  | 22.1 |  | 50.1 |  | 13.7 |
| LOS | B | A |  | C |  | $F$ |  | B |
| Approach Delay (s/veh) | -- | -- | 22.1 |  |  | 29.3 |  |  |
| Approach LOS | -- | -- | C |  |  | D |  |  |

